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.

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AUGUST 27, 2025
FEDERAL AID PROJECT NO. 1131(107)
STATE PROJECT NO. 0131-0211

SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

Town of Southington

The State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 819, dated 2024, as revised by the Supplemental Specifications dated January 2025 (otherwise referred to collectively as "ConnDOT Form 819") is hereby made part of this contract, as modified by the Special Provisions contained herein. The current edition of the State of Connecticut Department of Transportation's "Construction Contract Bidding and Award Manual" ("Manual"), is hereby made part of this contract. If the provisions of this Manual conflict with provisions of other Department documents (not including statutes or regulations), the provisions of the Manual will govern. The Special Provisions relate in particular to the Southington Rest Area Truck Parking Improvements in the Town of Southington.

CONTRACT TIME AND LIQUIDATED DAMAGES

Four Hundred Eighty Eight (488) calendar days will be allowed for completion of the work on this Contract and the liquidated damages charge to apply will be Two Thousand One Hundred Dollars ($ 2,100.00) per calendar day.

NOTICE TO CONTRACTOR – CONSTRUCTION SIGNS

The Contractor shall furnish, install, and maintain Bipartisan Infrastructure Law project signs for the duration of the Contract. The Contractor shall also remove the signs upon completion of the work under the project. A special provision for these signs has been added to the Contract for Item No. 1220027A - Construction Signs.

NOTICE TO CONTRACTOR – GLOBAL POSITIONING SYSTEM (GPS) COORDINATES FOR SIGNS

The Contractor shall obtain and provide to the Engineer sign installation data, including Global Positioning System (GPS) latitude and longitude coordinates, for all new State owned and maintained signs. The Engineer shall forward the sign data to the Division of Traffic Engineering for upload into the Highway Sign Inventory and Maintenance Management Program (SIMS). Sign data submissions or questions relating to SIMS or GPS shall be sent to DOT-SignInventory@ct.gov. Refer to the special provision for Section 12.00 General Clauses For Highway Signing.

NOTICE TO CONTRACTOR – ON-SITE UTILITY SERVICES

The Contractor is hereby notified that existing on-site utility services including water, sanitary sewer, telecommunications, and electric are CTDOT-owned and are not registered with Call Before You Dig. The Contractor shall perform an underground utility survey in accordance with the special provision for Item #0980020A – Construction Surveying to determine the locations and depths of the on-site utilities in the Project area prior to the start of excavation activities on the Project. The Contractor shall coordinate the temporary disconnection of these services, as required for the Work, with CTDOT District 1 Maintenance in accordance with the Contract requirements.

NOTICE TO CONTRACTOR – TIME-OF-YEAR RESTRICTION

The Contractor is hereby notified that there is a time-of-year restriction for tree clearing, trimming, and removal to protect State and Federally-listed bat species, as incorporated in the special provision for Section 1.10 – Environmental Compliance. Specifically, clearing, trimming or removal of any tree three (3) inches diameter at breast height or greater will be prohibited between April 15 and October 31. Any request to perform clearing, trimming or removal activities during the winter shutdown period must be approved by the Engineer in accordance with Form 819.

NOTICE TO CONTRACTOR – PRE-BID QUESTIONS AND ANSWERS

Questions pertaining to DOT advertised construction projects must be presented through the CTDOT Pre-Bid Q and A Website. The Department cannot guarantee that all questions will be answered prior to the bid date. **PLEASE NOTE - at 9:00 am Monday (i.e. typical Wednesday Bid Opening) the project(s) being bid will be closed for questions, at which time questions can no longer be submitted through the Q and A Website.**

Answers may be provided by the Department up to 12:00 noon, the day before the bid. At this time, the Q and A for those projects will be considered final, unless otherwise stated and/or the bid is postponed to a future date and time to allow for further questions and answers to be posted.

If a question needs to be asked the day before the bid date, please contact the Contracts Unit staff and email your question to dotcontracts@ct.gov immediately.

Contractors must identify their company name, contact person, contact email address and phone number when asking a question. The email address and phone number will not be made public.

The questions and answers (if any) located on the Q and A Website are hereby made part of the bid/contract solicitation documents (located on the State Contracting Portal), and resulting contract for the subject project(s). It is the bidder's responsibility to monitor, review, and become familiar with the questions and answers, as with all bid requirements and contract documents, prior to bidding. By signing the bid proposal and resulting contract, the bidder acknowledges receipt of, and agrees to the incorporation of the final list of Q and A, into the contract document.

Contractors will not be permitted to file a future claim based on lack of receipt, or knowledge of the questions and answers associated with a project. All bidding requirements and project information, including but not limited to contract plans, specifications, addenda, Q and A, Notice to Contractors, etc., are made public on the State Contracting Portal and/or the CTDOT website.

NOTICE TO CONTRACTOR – CDMS SUBMITTALS

Upon execution of the Contract, the Contractor acknowledges and agrees that contractual submittals for this Project shall be submitted and handled through the Department's Construction Document Management System (CDMS). The CDMS that the Department is currently using is COMPASS.

Contractor submittals including Shop Drawings, Working Drawings, Product Data, RFIs, and RFCs shall be generated and delivered by the Contractor in accordance with the Department's Contractor's User Manual. The administering District office will inform the Contractor of other deliverables required to be similarly submitted.

Access credentials will be provided free of charge to the Contractor.

The Department shall not be held responsible for delays, lack of processing or responses to submittals that do not follow the specified guidelines in the Contractor's User Manual.

NOTICE TO CONTRACTOR – MANDATED USE OF AASHTOWARE PROJECT CONSTRUCTION MANAGEMENT SOFTWARE (CONSTRUCTION)

The Contractor shall use ***AASHTOWare Project***® software as outlined in the specifications noted below. This will require that the Contractor and all subcontractor(s) designate and dedicate staff within 10 days after the execution of the Contract or approval to sublet as appropriate. It will also require the Contractor and all subcontractors to provide internet access, computing devices suitable for this work, training, and other related work as outlined in the specifications noted below.

All costs for these requirements shall be included in the general cost of the work.

The following special provisions are pertinent to, and detail the requirements for, this work:

SECTION 1.05 – CONTROL OF THE WORK

Article 1.05.12 – Payrolls

This Article outlines the requirements for submission of payrolls.

Article 1.05.25 – Use of AASHTOWare Project® Software

This Article outlines the overall requirements for the use of the AASHTOWare Project® Software.

SECTION 1.08 – PROSECUTION AND PROGRESS

Article 1.08.01 – Transfer of Work or Contract

This Article outlines the requirements for subcontractor payment and payment verifications.

NOTICE TO CONTRACTOR – FEDERAL WAGE DETERMINATIONS (Davis Bacon Act)

The following Federal Wage Determinations are applicable to this Federal- Aid contract and are hereby incorporated by reference. During the bid advertisement period, it is the bidder's responsibility to obtain the latest Federal wage rates from the US Department of Labor website, as may be revised 10 days prior to bid opening. Any revisions posted 10 days prior to the bid opening shall be the wage determinations assigned to this contract.

Check Applicable WD# (DOT Use Only)	WD#	Construction Type	Counties
	CT1	Highway	Fairfield, Litchfield, Middlesex, New Haven, Tolland, Windham
	CT2	Highway	New London
X	CT3	Highway	Hartford
	CT5	Heavy Dredging (Hopper Dredging)	Fairfield, Middlesex, New Haven, New London
	CT6	Heavy Dredging	Statewide
	CT13	Heavy	Fairfield
	CT14	Heavy	Hartford
	CT15	Heavy	Middlesex, Tolland
	CT16	Heavy	New Haven
	CT17	Heavy	New London
	CT26	Heavy	Litchfield, Windham
	CT18	Building	Litchfield
	CT19	Building	Windham
	CT20	Building	Fairfield
	CT21	Building	Hartford
	CT22	Building	Middlesex
	CT23	Building	New Haven
	CT24	Building	New London
	CT25	Building	Tolland
	CT4	Residential	Litchfield, Windham
	CT7	Residential	Fairfield
	CT8	Residential	Hartford
	CT9	Residential	Middlesex
	CT10	Residential	New Haven
	CT11	Residential	New London
	CT12	Residential	Tolland

The Federal wage rates (Davis-Bacon Act) applicable to this Contract shall be the Federal wage rates that are current on the US Department of Labor website (SAM.gov | Wage Determinations) as may be revised 10 days prior to bid opening. The Department will no longer physically include revised Federal wage rates in the bid documents or as part of addenda documents. These applicable Federal wage rates will be incorporated in the final contract document executed by both parties.

If a conflict exists between the Federal and State wage rates, the higher rate shall govern.

To obtain the latest Federal wage rates, go to the US Department of Labor website (link above). Under Davis-Bacon Act, choose "Selecting DBA WDs" and follow the instruction to search the latest wage rates for the State, County and Construction Type.

NOTICE TO CONTRACTOR – ENVIRONMENTAL INVESTIGATIONS

An environmental site investigation has been conducted that involved the sampling and laboratory analysis of soil and groundwater collected from various locations and depths within the proposed construction limits for State Project No. 0131-0211 Southington Rest Area Truck Parking Improvements in Southington, Connecticut. The results of this investigation indicated the presence of metals in site soil at concentrations above laboratory reportable detection limits and reflective of a typical incidental public roadway release. The testing results indicate the levels that the Contractor may encounter during construction. Actual levels found during construction may vary and such variations will not be considered a change in condition provided the material can still be disposed as non-hazardous at one or more of the disposal facilities listed in Item No. 0202315A - Disposal of Controlled Materials.

Based on these findings and proposed construction activities, and whenever possible, excavated soil shall be reused within the project limits to the fullest extent possible and prior to the use of other soils and/or fill unless otherwise designated by the Department's environmental consultant and Engineer. If soil from the project cannot be re-used within the project limits for any reason, it shall be transported to the temporary Waste Stockpile Area (WSA) as directed by the Engineer and will require disposal at an approved treatment/disposal facility in accordance with Item No. 0202315A – Disposal of Controlled Materials. **The contractor is hereby notified that transportation of excess soil to the temporary waste stockpile area shall paid for under Section 2.02, Earth Excavation.**

The DEEP groundwater classification beneath the site is GB. In the event groundwater is encountered during construction, any dewatering associated with the construction shall be performed in accordance with the CTDEEP's "*General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities."*

The Contractor is hereby notified that controlled materials requiring special management or disposal procedures may be encountered during construction activities conducted within the project limits. Therefore, the Contractor will be required to implement appropriate health and safety measures for all construction activities to be performed associated within the project. These measures shall include, but are not limited to, air monitoring, engineering controls, personal protective equipment and decontamination, equipment decontamination and personnel training. WORKER HEALTH AND SAFETY PROTOCOLS WHICH ADDRESS POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE SPECIFIC HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

The Sections which shall be reviewed by the Contractor include, but are not limited to, the following:

- Item No. 0101000A - Environmental Health and Safety
- Item No. 0101128A – Securing, Construction and Dismantling of a Waste Stockpile Area

- Item No. 0202315A - Disposal of Controlled Materials

The Contractor is alerted to the fact that a CTDOT environmental consultant will be on site for excavation activities within the project, to collect soil and groundwater (if required) samples and to observe site conditions for the Department. The temporary stockpiling of excess excavated materials within the project limits at the temporary WSA will exclusively be used for determination of disposal classification only. **The temporary WSA for this project will be located off Old Mountain Road (Route 322) in Southington, CT. Access to the WSA may be limited.**

Information pertaining to the environmental investigations can be found in the document listed below. This document shall be available for review electronically at the Office of Contracts, 2800 Berlin Turnpike, Newington, Connecticut.

- Task 210 – Subsurface Site Investigation Report. Southington Rest Area Truck Parking Improvements, Fuss & O'Neill, Inc. June 2025.

NOTICE TO CONTRACTOR - ELECTRONIC ENGINEERING DATA (EED)

The EED is an assembly of engineering data files that were used to produce the Contract plans.

Electronic Engineering Data (EED) is provided for information purposes only. In case of conflict between the EED and the Contract plans and specifications, the contract plans and specifications shall govern. The EED has been reviewed by the Department for quality control purposes, but it is the Contractor's responsibility to build the Project per the contract plans and specifications.

The EED is being provided to the Engineer for GPS/RTS inspection. The Contractor may use the EED to assist in bidding, layout, and Automated Machine Control/Guidance.

The EED includes geospatially correct 2D CAD files and may include horizontal and vertical alignment data files, 3D surface model files (break-line features and triangles) and a preference file. The data is being provided in one of the MicroStation versions, consisting of native and converted formats:

MicroStation V8i (InRoads)

- Native Format
  - Bentley MicroStation CAD files (dgn)
  - Bentley SS2 InRoads Alignment Files (alg)
  - Bentley SS2 InRoads Digital Terrain Models (dtm)
  - Bentley SS2 InRoads Preference File (xin)
- Converted Format (for use in GPS/RTS Site equipment)
  - AutoCAD CAD files (dxf)
  - Alignment files (xml)
  - Surface Models (xml)

MicroStation CONNECT (OpenRoads)

- Native Format
  - Bentley CONNECT MicroStation CAD files (dgn – contains CAD graphics, OpenRoads alignments and terrain models)
- Converted Format (for use in GPS/RTS Site equipment)
  - AutoCAD CAD files (dxf)
  - Alignment files (xml – exported from CONNECT MicroStation CAD file)
  - Surface Models (xml – exported from CONNECT MicroStation CAD file)

For a complete list of EED files, see the EED file manifest (PDF) located in the EED_0131-0211.zip file (0131-0211 is the project number) which is posted with the contract PS&Es on the State Contracting portal. The EED zip file can also be found in the project COMPASS page in the *Contract Documents/100_Contract_Plans (PDF)* folder.

SECTION 1.02 – PROPOSAL REQUIREMENTS AND CONDITIONS

1.02.01 – Contract Bidding and Award:

After the first sentence of the third paragraph, add the Following:

In accordance with the provisions of the Construction Contract Bidding and Award Manual, bidders must be prequalified for **Group No. 6 – Road Construction and Rehabilitation: Local Roads & Streets and non-Freeways**, to be eligible to bid on this project. Bidders that are not prequalified for this work classification will not be approved to bid on this project.

SECTION 1.05 – CONTROL OF THE WORK

Add the following to the beginning of the first paragraph of Article 1.05.12:

1.05.12 – Payrolls: The Contractor and all subcontractors shall use ***AASHTOWare Project®*** software in accordance with Article 1.05.25, with a Department-provided template, or by other means previously accepted by the Department, to electronically upload all Project payrolls, as directed herein.

Add the following to the end of Article 1.05.12:

These requirements shall be included in all subcontracts for this Project.

All costs for these requirements shall be included in the general cost of the work.

Add the following new Article 1.05.25:

1.05.25 – Use of *AASHTOWare Project*® Software: The Contractor and all subcontractor(s) shall use the ***AASHTOWare Project®*** software for electronic submittal of all payrolls as outlined in the Department's AASHTOWare Contractor's User Manual, found at the Department's AASHTOWare Training webpage, and as stated in the specifications.

The Contractor and all subcontractor(s) shall use the ***AASHTOWare Project®*** software for monthly verification of project payments at all tiers, as outlined in the Department's AASHTOWare Contractor's User Manual, found at the Department's AASHTOWare Training webpage, and as stated in the specifications. The Department will inform the Contractor of other deliverables to be similarly submitted, as required.

Within 10 days of execution of the Contract, the Contractor shall submit the name(s) of the ***AASHTOWare Software Project Liaison*** and required staff that will be using the Department's software for this work. Similarly, within 10 days after the Contractor (or a subcontractor) enters into a subcontractor agreement to sublet any work, they shall submit the name(s) of their ***AASHTOWare Software Project Liaison*** and required staff that will be using the Department's software for this work. The Contractor and subcontractors shall immediately notify the Department of any change in Project staff authorized to access the AASHTOWare system or of a need to revise the Project Liaison.

Training materials, such as videos and written guides are available on the Department website for Contractor use. The Contractor and all subcontractors shall be responsible to train their staff.

This ***AASHTOWare Project®*** software will require that the Contractor and all subcontractor(s) provide their staff with access to the internet, using devices suitable for this work, at their own expense, throughout the duration of the Project. The Department has obtained licensing that allows the Contractor and subcontractors to access (from the internet) and use of the ***AASHTOWare Project®*** software. The Department will provide the Contractor and subcontractors with usernames and passwords to access the ***AASHTOWare Project®*** software, at no cost.

The Department shall not be held responsible for delays, lack of processing, or responses to submittals that do not follow the specified guidelines in the Department's AASHTOWare Contractor's User Manual, found at the Department's AASHTOWare Training webpage.

These requirements shall be included in all subcontracts for this Project.

All costs for these requirements shall be included in the general cost of the work.

SECTION 1.08 – PROSECUTION AND PROGRESS

Add the following to the beginning of the first paragraph of Article 1.08.01:

1.08.01 – Transfer of Work or Contract: The Contractor and all subcontractors shall use the *AASHTOWare Project*® software in accordance with Article 1.05.25, for monthly verification of project payments at all tiers, in accordance with the Department's AASHTOWare Contractor's User Manual, found at the Department's AASHTOWare Training webpage, and as stated in the specifications.

Add the following to the end of Article 1.08.01:

All costs for the requirements of this Article shall be included in the general cost of the work.

Article 1.08.04 – Limitation of Operations - Add the following:

In order to provide for traffic operations as outlined in the Special Provision "Maintenance and Protection of Traffic," the Contractor will not be permitted to perform any work which will interfere with the described traffic operations on all project roadways and parking areas as follows:

I-84

The Contractor shall not be permitted to close mainline lanes or shoulders, nor temporarily stage construction vehicles on the mainline shoulders, except for the installation, maintenance, and removal of traffic control devices and construction signs for the maintenance and protection of traffic.

The Contractor shall not perform any work that will interfere with traffic operations during the below State observed Legal Holidays and Legal Holiday Periods.

A. On the following State observed Legal Holidays:

New Year's Day	Labor Day
Good Friday	Thanksgiving Day
Memorial Day	Christmas Day
Independence Day	

B. During the following Legal Holiday Periods:

i. When an above Legal Holiday is celebrated on a Sunday or Monday: From 6:00 a.m. the immediately preceding Friday to 6:00 a.m. the immediately following Tuesday.

ii. When an above Legal Holiday is celebrated on a Tuesday, Wednesday, or Thursday: From 6:00 a.m. the day before to 6:00 a.m. the day after, except Thanksgiving (see below for Thanksgiving specific restrictions).

iii. When an above Legal Holiday is celebrated on a Friday or Saturday: From 6:00 a.m. the immediately preceding Thursday to 6:00 a.m. the immediately following Monday.

iv. Thanksgiving: From 6:00 a.m. the Wednesday before to 6:00 a.m. the Monday after.

During all other times:

A. The Contractor shall maintain and protect traffic as shown on the accompanying "Limitation of Operations" chart, which dictates the maximum number of lanes allowed to be closed and the allowable hours for implementing a rolling roadblock operation for each day of the week.

Limitation of Operations Chart – Maximum Number of Lanes Allowed to be Closed and Hours Allowed for a Rolling Roadblock (RRB)

Route: I-84 EB (Southington) Number of Through Lanes: 3							
Hour Beginning	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Mid	2*	2*	2*	2*	2*	2*	2*
1 AM	2*	2*	2*	2*	2*	2*	2*
2 AM	2*	2*	2*	2*	2*	2*	2*
3 AM	2*	2*	2*	2*	2*	2*	2*
4 AM	2*	2*	2*	2*	2*	2*	2*
5 AM	2*	2*	2*	2*	2*	2*	2*
6 AM	**0**	**0**	**0**	**0**	**0**	2*	2*
7 AM	**0**	**0**	**0**	**0**	**0**	2	2*
8 AM	**0**	**0**	**0**	**0**	**0**	1	2
9 AM	1	1	1	1	1	1	1
10 AM	1	1	1	1	1	S	1
11 AM	1	1	1	1	1	S	S
Noon	1	1	1	1	1	S	S
1 PM	1	1	1	1	1	S	S
2 PM	1	1	1	1	S	S	S
3 PM	**0**	**0**	**0**	**0**	**0**	S	S
4 PM	**0**	**0**	**0**	**0**	**0**	S	1
5 PM	**0**	**0**	**0**	**0**	**0**	1	S
6 PM	1	1	1	1	S	S	1
7 PM	1	1	1	1	S	1	1
8 PM	2	2	2	2	S	1	1
9 PM	2*	2*	2*	2*	1	2	2*
10 PM	2*	2*	2*	2*	2	2	2*
11 PM	2*	2*	2*	2*	2*	2*	2*

On Legal Holidays and within Legal Holiday Periods, all hours shall be '0.'
"0" = No closures allowed = all available travel lanes, including exit only lanes, climbing lanes, gore areas, and all available shoulder widths shall be open to traffic during this time period.
"S" = Shoulders are allowed to be closed = all available travel lanes, including exit only lanes, climbing lanes, and gore areas shall be open to traffic during this time period.
"1" = One lane closure is allowed. Adjacent shoulder(s) and/or gore areas may also be closed.
"2" = Two lane closure is allowed. Adjacent shoulder(s) and/or gore areas may also be closed.
"*" = The hours that a rolling roadblock may be implemented with the approval of the Engineer.

I-84 Rest Area Ramps & Roadways

The Contractor shall not be permitted to perform any work that will interfere with traffic operations during the below State observed Legal Holidays and Legal Holiday Periods.

A. On the following State observed Legal Holidays:

New Year's Day	Labor Day
Good Friday	Thanksgiving Day
Memorial Day	Christmas Day
Independence Day	

B. During the following Legal Holiday Periods:

i. When an above Legal Holiday is celebrated on a Sunday or Monday: From 6:00 a.m. the immediately preceding Friday to 6:00 a.m. the immediately following Tuesday.

ii. When an above Legal Holiday is celebrated on a Tuesday, Wednesday, or Thursday: From 6:00 a.m. the day before to 6:00 a.m. the day after, except Thanksgiving (see below for Thanksgiving specific restrictions).

iii. When an above Legal Holiday is celebrated on a Friday or Saturday: From 6:00 a.m. the immediately preceding Thursday to 6:00 a.m. the immediately following Monday.

iv. Thanksgiving: From 6:00 a.m. the Wednesday before to 6:00 a.m. the Monday after.

These limitations do not apply to off-line activities that are physically separated from the traveling public by temporary traffic barrier or temporary protective fence as illustrated on the Maintenance & Protection of Traffic plans, or that otherwise do not impact travel on the rest area roadways as determined by the Engineer.

There are no other restrictions on the allowable work periods.

Accessible Parking Access

The Contractor shall maintain and protect vehicular access to a minimum of four permanent or temporary accessible parking spaces, and shall maintain and protect an accessible path for pedestrian access from the accessible parking spaces to the Rest Area Building, at all times throughout construction. The acceptable temporary accessible parking spaces are those shown on the Maintenance and Protection of Traffic Plans.

Additional Lane Closure Restrictions

It is anticipated that work on adjacent projects will be ongoing simultaneously with this project. The Contractor shall be aware of those projects and anticipate that coordination will be required to maintain proper traffic flow at all times on all project roadways, in a manner consistent with these specifications and acceptable to the Engineer.

The Contractor will not be allowed to perform any work that will interfere with traffic operations on a roadway when traffic operations are being restricted on that same roadway, unless there is at least a one-mile clear area length where the entire roadway is open to traffic or the closures have been coordinated and are acceptable to the Engineer. The one-mile clear area length shall be measured from the end of the first work area to the beginning of the signing pattern for the next work area.

SECTION 1.10 – ENVIRONMENTAL COMPLIANCE

In Article 1.10.03 – Water Pollution Control:
REQUIRED BEST MANAGEMENT PRACTICES

Add the following after Required Best Management Practices Number 13:

14. The Contractor is hereby notified that one or more State and/or federally listed species of bat has been documented within the Project limits. In Connecticut, the Eastern small-footed bat (*Myotis leibii*), tri-colored bat (*Perimyotis subflavus*), little brown bat (*Myotis lucifugus*), Northern long-eared bat (*Myotis septentrionalis*) and the Indiana bat (*Myotis sodalis*) are listed as State endangered; while the silver-haired bat (*Lasionycteris noctivagans*), hoary bat (*Lasiurus cinereus*) and the red bat (*Lasiurus borealis*) are listed as State species of special concern. The Northern long-eared bat, tri-colored bat, and the Indiana bat are also federally listed endangered species. Bats are the only mammals capable of actual flight and are primarily nocturnal. During the daylight, bats roost in trees and caves, but many have now adapted to roost in or on buildings including barns, houses, tunnels, and bridges. Within the Project limits, bats will use the snags, cavities, and underside of bark to roost and raise young. **This Project will have a Time of Year restriction for tree clearing, trimming and removal to protect the bat species listed.**

    The Contractor shall, through the Engineer and at least 10 days prior to the commencement of any construction activities, arrange a meeting with the District Environmental Coordinator (DEC) and Office of Environmental Planning (OEP) (or their authorized delegate) to discuss proper protocol for maintaining environmental commitments made for the protection of these bat species and their habitat. OEP will provide oversight through the DEC and Engineer to ensure that the following protocols are followed and maintained during the Project:

    a. The Contractor, through the Engineer, shall arrange a pre-construction tree-clearing Site walk to review all trees proposed to be removed for the Project.
    b. Clearing, trimming or removal of any tree three (3) inches diameter at breast height (DBH) or greater will be prohibited between April 15 and October 31.
    c. This restriction shall also apply to invasive species removal work and shall be reflected in the Contractor's Invasive Vegetation Removal Plan, if applicable.

    These practices will be applied to the entire Project unless a specified location is identified within the Project plans, which denotes specific areas of concern.

    If any bats are observed in or around the Project area, the Engineer will notify the DEC to facilitate further coordination with OEP's Environmental Resource Compliance Unit. If the DEC is unable to be reached, notify OEP at Andrew.Piraneo@ct.gov or at Marilyn.Gould@ct.gov.

    The OEP will be responsible for completing and submitting the Natural Diversity Data Base (NDDB) Vertebrate Sheet (https://portal.ct.gov/DEEP/Endangered-Species/Contributing-Data). This completed document allows CTDEEP to update their database.

All listed bat species are protected by federal and/or State laws which prohibit killing, harming, taking, harassing, or keeping them in your possession. A CTDEEP fact sheet(s) for the listed bats noted above shall be posted in the Contractor's and Inspection field offices and can be downloaded at the link below.

CTDEEP's Fact Sheet for Bats:
https://portal.ct.gov/-/media/DEEP/wildlife/pdf_files/outreach/fact_sheets/Bats.pdf

SECTION 12.00 – GENERAL CLAUSES FOR HIGHWAY SIGNING

Description:

Work under this item shall conform to the requirements of Section 12.00 supplemented as follows:

12.00.07 – Global Positioning System (GPS) coordinates for signs:

The Contractor shall obtain and provide to the Engineer sign installation data, including Global Positioning System (GPS) latitude and longitude coordinates, for all new permanent State owned and maintained signs (temporary and construction signs are not to be included) installed in the project. The Engineer shall forward the sign data to the Division of Traffic Engineering for upload into the Highway Sign Inventory and Maintenance Management Program (SIMS). Sign data submissions or questions relating to SIMS or GPS shall be sent to DOT-SignInventory@ct.gov.

The horizontal datum is to be set to the State Plane Coordinate System, North American Datum of 1983 (NAD83) in feet. The minimum tolerance must be within 10 feet. The format of the GPS information shall be provided in a Microsoft Office compatible spreadsheet (Excel) file with data for each sign. The record for each sign installed is to be compatible with the anticipated CTDOT Sign Inventory and Management System (CTSIMS). The following format shall be used. However, the data fields noted by "#" are not required for the project submission. These entries will be completed as part of the Traffic Engineering CTSIMS data upload.

The cost of this work shall be included in the cost of the respective sign face – sheet aluminum and sign face – extruded aluminum items. The receipt of this electronic database must be received and accepted by the Engineer prior to final payment for items involving permanent highway signing. The electronic database information shall detail information regarding the sign actually installed by the project.

	Field Number	Type	size	Description
	1	text	20	Record Number (starting at 1…)
	2	text	20	Sign Catalog Number
#	3	text	10	Size Height
#	4	text	10	Size Width
	5	text	25	Legend
#	6	text	10	Background Color
#	7	text	10	Copy Color
	8	Link	25	Material (see acceptable categories)
	9	text	30	Comments if any
#	10	text	20	MUTCD Type
	11	text	15	Town

	12	text	5	Route
	13	text	5	Route direction
#	14	text	10	Highway Log Mileage
	15	text	15	Latitude
	16	text	15	Longitude
	17	text	25	Mounting Type
	18	text	25	Reflective Sheeting Type
	19	date	25	Date Installed
	20	text	10	Number of Posts
	21	text	255	Sheeting Manufacturer name and address
	22	text	15	State Project Number (or)
	23	text	15	Encroachment Permit number.
	24	Graphic	*	Sign Picture Graphic.

* Graphics provided shall be representative of the sign supplied and be in color. Graphic formats shall be either JPG or TIFF and provided with a recommended pixel density of 800 x 600. The graphic shall be inserted in the supplied media in field 24 for each sign.

ITEM #0101000A – ENVIRONMENTAL HEALTH AND SAFETY

Description:

Under this item, the Contractor shall establish protocols and provide procedures to protect the health and safety of its employees and subcontractors as related to the proposed construction activities performed within the Project. Work under this Item consists of the development and implementation of a written HASP that addresses the relative risk of exposure to documented hazards present within Project limits. The HASP shall establish health and safety protocols that address the relative risk of exposure to regulated substances in accordance with 29 CFR 1910.120 and 29 CFR 1926.65. Such protocols shall only address those concerns directly related to site conditions.

Note: The Engineer will prepare a site-specific health and safety plan which is compatible with the Contractor's plan and will be responsible for the health and safety of all Project Inspectors, Department employees and consulting engineers.

Materials:

The Contractor must provide chemical protective clothing (CPC) and personal protective equipment (PPE) as stipulated in the Contractor's HASP during the performance of work in areas identified as potentially posing a risk to worker health and safety for workers employed by the Contractor and all subcontractors.

Construction Methods:

1-Existing Information: The Contractor shall utilize all available information and existing records and data pertaining to chemical and physical hazards associated with any of the regulated substances identified in the environmental site investigations to develop the HASP. A list of documents containing this information is found in "Notice to Contractor – Environmental Investigations".

2-General: The requirements set forth herein pertain to the provision of workers' health and safety as it relates to proposed Project activities when performed in the presence of hazardous or regulated materials or otherwise environmentally sensitive conditions. THE PROVISION OF WORKER HEALTH AND SAFETY PROTOCOLS WHICH ADDRESS POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE SPECIFIC HAZARDS POSED TO CONTRACTOR EMPLOYEES IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

The Contractor shall be responsible for the development, implementation and oversight of the HASP throughout the performance of work within the limits of the Project, as identified in the Contract Documents, and in other areas identified by the Engineer or by the HASP where site conditions may pose a risk to worker health and safety and/or the environment.

No physical aspects of the work generating soils shall begin until the HASP is reviewed by the Engineer and is determined to meet the requirements of the specifications. However, the Contract time, in accordance with Article 1.03.08, will begin on the date stipulated in the Notice to Proceed.

3-Regulatory Requirements: All construction related activities performed by the Contractor within the limits of the Project or in other areas where site conditions may pose a risk to worker health and safety and/or the environment shall be performed in conformance with 29 CFR 1926, Safety and Health Regulations for Construction and 29 CFR 1910, Safety and Health Regulations for General Industry. Conformance to 29 CFR 1910.120, Hazardous Waste Site Operations and Emergency Response (HAZWOPER) may also be required, where appropriate.

4-Submittals: Three copies of the HASP shall be submitted to the Engineer within four (4) weeks after the Award of Contract or four (4) weeks prior to the start of any work in the Project generating reusable or surplus soil, whichever is first, but not before the Award of the Contract.

The HASP shall be developed by a qualified person designated by the Contractor. This qualified person shall be a Certified Industrial Hygienist (CIH), Certified Hazardous Material Manager (CHMM), or a Certified Safety Professional (CSP). He/she shall have review and approval authority over the HASP and be identified as the Health and Safety Manager (HSM). The HASP shall bear the signature of said HSM indicating that the HASP meets the minimum requirements of 29 CFR 1910.120 and 29 CFR 1926.65.

The Engineer will review the HASP(s) within four (4) weeks of submittal and provide written comments as to deficiencies in and/or exceptions to the plan(s), if any, to assure consistency with the specifications, applicable standards, policies and practices and appropriateness given potential or known site conditions. Items identified in the HASP which do not conform to the specifications will be brought to the attention of the Contractor, and the Contractor shall revise the HASP to correct the deficiencies and resubmit it to the Engineer for determination of compliance with this item. The Contractor shall not be allowed to commence work activities generating reusable or surplus soil as shown on the Plan, or where site conditions exist which may pose a risk to worker health and safety and/or the environment, until the HASP has been reviewed and accepted by the Engineer. No claim for delay in the progress of work will be considered for the Contractor’s failure to submit a HASP that conforms to the requirements of the Contract.

5-HASP Provisions:

(a) General Requirements: The Contractor shall prepare a HASP covering all Project site work regulated by 29 CFR 1910.120(b)/ 1926.65(b) to be performed by the Contractor and all subcontractors under this Contract. The HASP shall establish in detail, the protocols necessary for the recognition, evaluation, and control of all hazards associated with each task performed under this Contract. The HASP shall address site-specific safety and health hazards of each phase of site operation and include the requirements and procedures for employee protection. The level of detail provided in the HASP shall

be tailored to the type of work, complexity of operations to be performed, and hazards anticipated. Details about some activities may not be available when the initial HASP is prepared and submitted. Therefore, the HASP shall address, in as much detail as possible, all anticipated tasks, their related hazards and anticipated control measures.

The HASP shall interface with the Contractor's Safety and Health Program. Any portions of the Safety and Health Program that are referenced in the HASP shall be included as appendices to the HASP. All topics regulated by the 29 CFR 1910.120(b)(4) and those listed below shall be addressed in the HASP. Where the use of a specific topic is not applicable to the Project, the HASP shall include a statement to justify its omission or reduced level of detail and establish that adequate consideration was given the topic.

(b) Elements:

(i) Site Description and Contamination Characterization: The Contractor shall provide a site description and contaminant characterization in the HASP that meets the requirements of 29 CFR 1910.120/1926.65.

(ii) Safety and Health Risk Analysis/Activity Hazard Analysis: The HASP shall address the safety and health hazards on this site for every operation to be performed. The Contractor shall review existing records and data to identify potential chemical and physical hazards associated with the site and shall evaluate their impact on field operations. Sources, concentrations (if known), potential exposure pathways, and other factors as noted in CFR 1910.120/126.65, paragraph (c)(7) employed to assess risk shall be described. The Contractor shall develop and justify action levels for implementation of engineering controls and personal protective equipment upgrades and downgrades for controlling worker exposure to the identified hazards. If there is no permissible exposure limit (PEL) or published exposure level for an identified hazard, available information from other published studies may be used as guidance. Any modification of an established PEL must be fully documented.

The HASP shall include a comprehensive section that discusses the tasks and objectives of the site operations and logistics and resources required to complete each task. The hazards associated with each task shall be identified. Hazard prevention techniques, procedures and/or equipment shall be identified to mitigate each of the hazards identified.

(iii) Staff Organization, Qualifications and Responsibilities: The HASP shall include a list of personnel expected to be engaged in site activities and certify that said personnel have completed the educational requirements stipulated in 29 CFR 1910.120 and 29 CFR 1926.65, are currently monitored under a medical surveillance program in compliance with those regulations, and that they are fit for work under "level C" conditions.

The Contractor shall assign responsibilities for safety activities and procedures. An outline or flow chart of the safety chain of command shall be provided in the HASP. Qualifications, including education, experience, certifications, and training in safety and

health for all personnel engaged in safety and health functions shall be documented in the HASP. Specific duties of each on-site team member shall be identified. Typical team members include Team Leader, Scientific Advisor, Site Safety Officer, Public Information Officer, Security Officer, Record Keeper, Financial Officer, Field Team Leader, and Field Team members.

The HASP shall also include the name and qualifications of the individual proposed to serve as Health and Safety Officer (HSO). The HSO shall have full authority to carry out and ensure compliance with the HASP. The Contractor shall provide a competent HSO on-site who is capable of identifying existing and potential hazards in the surroundings or working conditions which are unsanitary, hazardous or dangerous to employees and who has authorization to take prompt corrective measures to eliminate or control them. The qualifications of the HSO shall include completion of OSHA 40-hour HAZWOPER training, including current 8-hour refresher training, and 8-hour HAZWOPER supervisory training; a minimum of one year of working experience with the regulated compounds that have been documented to exist within Project limits; a working knowledge of Federal and State safety regulations; specialized training or documented experience (one year minimum) in personal and respiratory protective equipment program implementation; the proper use of air monitoring instruments, air sampling methods and procedures; and certification training in first aid and CPR by a recognized, approved organization such as the American Red Cross.

The primary duties of the HSO shall be those associated with worker health and safety. The Contractor's HSO responsibilities shall be detailed in the written HASP and shall include the following:

(A) Directing and implementing the HASP.

(B) Ensuring that all Project personnel have been adequately trained in the recognition and avoidance of unsafe conditions and the regulations applicable to the work environment to control or eliminate any hazards or other exposure to illness or injury (29 CFR 1926.21). All personnel shall be adequately trained in procedures outlined in the Contractor's written HASP.

(C) Authorizing Stop Work Orders, which shall be executed upon the determination of an imminent health and safety concern.

(D) Contacting the Contractor's HSM and the Engineer immediately upon the issuance of a Stop Work order when the HSO has made the determination of an imminent health and safety concern.

(E) Authorizing work to resume, upon approval from the Contractor's HSM.

(F) Directing activities, as defined in the Contractor's written HASP, during emergency situations; and

(G) Providing personal monitoring where applicable, and as identified in the HASP.

(iv) Employee Training Assignments: The Contractor shall develop a training program to inform employees, supplier's representatives, and official visitors of the special hazards and procedures (including PPE, its uses and inspections) to control these hazards during field operations. Official visitors include Federal Agency Representatives, State Agency Representatives, Municipal Agency Representatives, Contractors, subcontractors, etc. This program shall be consistent with the requirements of 29 CFR 1910.120 and 29 CFR 1926.65.

(v) Personal Protective Equipment: The plan shall include the requirements and procedures for employee protection and should include a detailed section on respiratory protection. The Contractor shall describe in detail and provide appropriate personal protective equipment (PPE) to ensure that workers are not exposed to levels greater than the action level for identified hazards for each operation stated for each work zone. The level of protection shall be specific for each operation and shall be in compliance with all requirements of 29 CFR 1910 and 29 CFR 1926. The Contractor shall provide, maintain, and properly dispose of all PPE.

(vi) Medical Surveillance Program: All on-site Contractor personnel engaged in 29 CFR 1910.120/1926.65 operations shall have medical examinations meeting the requirements of 29 CFR 1910.120(f) prior to commencement of work.

The HASP shall include certification of medical evaluation and clearance by the physician for each employee engaged in 29 CFR 1910.120/1926.65 operations at the site.

(vii) Exposure Monitoring/Air Sampling Program: The Contractor shall submit an Air Monitoring Plan as part of the HASP which is consistent with 29 CFR 1910.120, paragraphs (b)(4)(ii)(E), (c)(6), and (h). The Contractor shall identify specific air sampling equipment, locations, and frequencies in the air-monitoring plan. Air and exposure monitoring requirements shall be specified in the Contractor's HASP. The Contractor's HSM shall specify exposure monitoring/air sampling requirements after a careful review of the contaminants of concern and planned site activities.

(viii) Site Layout and Control: The HASP shall include a map, work zone delineation (support, contamination, reduction and exclusion), on/off-site communications, site access controls, and security (physical and procedural).

(ix) Communications: Written procedures for routine and emergency communications procedures shall be included in the Contractor's HASP.

(x) Personal Hygiene, Personal Decontamination and Equipment Decontamination: Decontamination facilities and procedures for personnel protective equipment, sampling equipment, and heavy equipment shall be discussed in detail in the HASP.

(xi) Emergency Equipment and First Aid Requirements: The Contractor shall provide appropriate emergency first aid kits and equipment suitable to treat exposure to the hazards identified, including chemical agents. The Contractor shall provide personnel that have certified first aid/CPR training on site at all times during site operations.

(xii) Emergency Response Plan and Spill Containment Program: The Contractor shall establish procedures in order to take emergency action in the event of immediate hazards (i.e., a chemical agent leak or spill, fire or personal injury). Personnel and facilities supplying support in emergency procedures will be identified. The emergency equipment to be present at the site and the Emergency Response Plan procedures, as required 29 CFR 1910.120, paragraph (1)(1)(ii) shall be specified in the Emergency Response Plan. The Emergency Response Plan shall be included as part of the HASP. This Emergency Response Plan shall include the street address (for GPS usage) and written directions to the closest hospital as well as a map showing the route to the hospital.

(xiii) Logs, Reports and Record Keeping: The Contractor shall maintain safety inspections, logs, and reports, accident/incident reports, medical certifications, training logs, monitoring results, etc. All exposure and medical monitoring records are to be maintained according to 29 CFR 1910 and 29 CFR 1926. The format of these logs and reports shall be developed by the Contractor to include training logs, daily logs, weekly reports, safety meetings, medical surveillance records, and a phase-out report. These logs, records, and reports shall be maintained by the Contractor and be made available to the Engineer.

The Contractor shall immediately notify the Engineer of any accident/incident. Within two working days of any reportable accident/incident, the Contractor shall complete and submit to the Engineer an accident report.

(xiv) Confined space entry procedures: Confined space entry procedures, both permit- and non-permit required, shall be discussed in detail.

(xv) Pre-entry briefings: The HASP shall provide for pre-entry briefings to be held prior to initiating any site activity and at such other times as necessary to ensure that employees are apprised of the HASP and that this plan is being followed.

(xvi) Inspections/audits: The HSM or HSO shall conduct Inspections or audits to determine the effectiveness of the HASP. The Contractor shall correct any deficiencies in the effectiveness of the HASP.

6-HASP Implementation: The Contractor shall implement and maintain the HASP throughout the performance of work. In areas identified as having a potential risk to worker health and safety, and in any other areas deemed appropriate by the HSO, the Contractor shall be prepared to immediately implement the appropriate health and safety measures, including the use of personal protective equipment (PPE), and engineering and administrative controls.

If the Engineer observes deficiencies in the Contractor's operations with respect to the HASP, they shall be assembled in a written field directive and given to the Contractor. The Contractor shall immediately correct the deficiencies and respond, in writing, as to how each was corrected. Failure to bring the work area(s) and implementation procedures into compliance will result in a Stop Work Order and a written directive to discuss an appropriate resolution(s) to the matter. When the Contractor demonstrates compliance, the Engineer shall remove the Stop Work Order. If a Stop Work Order has been issued for cause, no delay claims on the part of the Contractor will be honored.

Disposable CPC/PPE, i.e. disposable coveralls, gloves, etc., which come in direct contact with hazardous or potentially hazardous material shall be placed into 55-gallon USDOT 17-H drums and disposed of in accordance with Federal, State, and local regulations. The drums shall be temporarily staged and secured within the WSA until the material is appropriately disposed.

7-HASP Revisions: The HASP shall be maintained at the site by the Contractor and shall be kept current with construction activities and site conditions under this Contract. The HASP shall be recognized as a flexible document which shall be subject to revisions and amendments, as required, in response to actual site conditions, changes in work methods and/or alterations in the relative risk present. All changes and modifications shall be signed by the Contractor's HSM and shall require the review and acceptance by the Engineer prior to the implementation of such changes.

Should any unforeseen hazard become evident during the performance of the work, the HSO shall bring such hazard to the attention of the Contractor and the Engineer as soon as possible. In the interim, the Contractor shall take action including; Stop Work Orders and/or upgrading PPE as necessary to re-establish and maintain safe working conditions and to safeguard site personnel, visitors, the public and the environment. The HASP shall then be revised/amended to reflect the changed condition.

Method of Measurement:

1-Within thirty (30) calendar days of the award of the Contract, the Contractor shall submit to the Engineer for acceptance a breakdown of its lump sum bid price for this item detailing:

(a) The development costs associated with preparing the HASP in accordance with these Specifications.
(b) The cost per month for the duration of the Project to implement the HASP and provide the services of the HSM and the HSO.

2-If the lump sum bid price breakdown is unacceptable to the Engineer; substantiation showing that the submitted costs are reasonable shall be required.

3-Upon acceptance of the payment schedule by the Engineer, payments for work performed will be made as follows:

(a) The lump sum development cost will be certified for payment.

(b) The Contractor shall demonstrate to the Engineer monthly that the HASP has been kept current and is being implemented and the monthly cost will be certified for payment.

(c) Any month where the HASP is found not to be current or is not being implemented, the monthly payment for the Environmental Health and Safety Item shall be deferred to the next monthly payment estimate. If the HASP is not current or being implemented for more than thirty calendar days, there will be no monthly payment.

(d) Failure of the Contractor to implement the HASP in accordance with this Specification shall result in the withholding of all Contract payments.

Basis of Payment:

This work will be paid for at the Contract lump sum price for "Environmental Health and Safety" which price shall include all materials, tools, equipment and labor incidental to the completion of this item for the duration of the Project to maintain, revise, monitor and implement the HASP. Such costs include providing the services of the HSM and HSO, Contractor employee training, chemical protective clothing (CPC), personal protective equipment (PPE), disposal of PPE and CPC, medical surveillance, decontamination facilities, engineering controls, monitoring and all other HASP protocols and procedures established to protect the Health and Safety for all on-site workers.

Pay Item	**Pay Unit**
Environmental Health and Safety	L.S.

ITEM #0101128A – SECURING, CONSTRUCTION AND DISMANTLING OF A WASTE STOCKPILE AND TREATMENT AREA

Description:

Work under this Item shall consist of the securing, construction and dismantling of the temporary Waste Stockpile Area (WSA) at the location designated on the Project Plans and in accordance with the Contract. All controlled materials excavated from within the project which are not designated for reuse during construction activities shall be loaded, transported to and stored at the WSA. The WSA shown on the Plans is to be used exclusively for the temporary stockpiling of excess controlled materials from the project for waste characterization sampling and determination of disposal classification prior to offsite disposal only. **The Contractor is hereby alerted that the temporary WSA for this project will be located off Old Mountain Road (Route 322) in Southington, CT. Access to the WSA may be limited.**

Materials:

The required materials are detailed on the Project Plans. All materials shall conform to the requirements of the Contract.

Construction blocks shall be solid precast rectangular concrete six (6) feet in length, three (3) feet in height, and two (2) feet in depth.

Polyethylene plastic sheeting for underlayment shall be a thickness of 30 mil and minimum width of ten (10) feet. Polyethylene plastic sheeting for covering shall be a thickness of 10 mil and a minimum width of ten (10) feet.

Sand bags used to secure polyethylene sheeting soil covers shall have a minimum weight of thirty (30) pounds.

Bedding sand shall conform to Article M.08.03 of the Specifications.

Processed Aggregate Base shall conform to Section 3.04 of the Specifications.

Sedimentation Control System shall conform to the requirements of Section 2.19 of the Specifications.

Bituminous Concrete shall conform to Section 4.06 and M.04 of the Specifications.

Roll-off/Storage Containers shall be of watertight, steel-body construction, of the size specified and able to handle the storage and subsequent transportation of material to the disposal facility.

Temporary Traffic Barrier shall conform to Section 8.22 of the Specifications.

Construction Methods:

The WSA shall be constructed in accordance with the Contract at the location shown on the Project Plans.

Construction of the WSA shall be completed prior to the initiation of construction activities generating excess project soils. The Contractor is responsible for the maintenance and protection of all utilities potentially affected during WSA construction. The Contractor shall locate and mark all existing utilities potentially affected prior to initiating WSA construction.

The proposed location of the WSA shall be cleared of any debris and vegetation as directed by the Engineer. Any objectionable materials, which may result in damage to the polyethylene sheeting underlayment, shall be removed prior to stockpiling excavated sediments.

The Contractor shall comply with the terms and conditions of the most recent DEEP "General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer)", including the General Operating Conditions and the Specific Operating Conditions, except that the Engineer will conduct all soil/sediment characterization and perform all record keeping. In particular, the Contractor shall:

1. Construct and repair the WSA in conformance with the requirements of the General Permit.
2. Prevent unauthorized entry onto the stockpiles by the use of fences, gates, or other natural or artificial barriers.
3. Install anti-tracking measures at the WSA to ensure the vehicles do not track sediments from the WSA onto a public roadway at any time.
4. Post and maintain a sign that is visible from a distance of at least 25 feet at the WSA identifying the name of the permittee (State of CT, Department of Transportation), the DOT field office phone number, the hours of operation for the WSA, and the phrase, "Temporary Soil Staging Area". Lettering shall be at least 1 inch high with a minimum overall sign dimension of 4 feet wide by 2 feet high. Such sign is only required if the capacity of the WSA is equal to or greater than 1,000 cubic yards. If initially the WSA capacity is less than 1,000 cubic yards and the WSA capacity is subsequently increased, the Contractor shall post and maintain the required sign at no additional cost to the State, prior to stockpiling the additional material.

Following the removal of all Controlled Materials, the Contractor shall use dry decontamination procedures for all surfaces of the WSA as directed by the Engineer. Residual materials shall be disposed of as sediments. If the results from dry methods are unsatisfactory to the Engineer, the Contractor shall modify decontamination procedures as required.

The Contractor shall be responsible for the collection and treatment/recycling/disposal of any liquid wastes that may be generated by its decontamination activities in accordance with applicable regulations.

Upon completion of the Project and following removal of all residual Controlled Materials, the Contractor shall dismantle the WSA and return the area to its original condition and as directed by the Engineer. During dismantling, the Contractor shall remove all materials such as polyethylene sheeting and sand bags. Materials shall be disposed of by the Contractor as solid waste in accordance with the Contract and all Federal, State and local regulations.

Operation and maintenance of the WSA shall be included under Item No. 0202315A – Disposal of Controlled Materials".

Method of Measurement:

This work will be measured for payment at the Lump Sum cost for securing, construction, and dismantling of a WSA.

Basis of Payment:

This work will be paid for at the Contract Lump Sum, which shall include all materials, tools, labor, equipment, permits, and work needed to secure, construct, decontaminate and dismantle the WSA, including all clearing, grubbing, grading, clean up, site restoration and seeding.

All materials, labor and equipment associated with compliance with the most current General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer) will not be measured separately but will be considered incidental to the item "Securing, Construction and Dismantling of a Waste Stockpile and Treatment Area".

Pay Item	**Pay Unit**
Securing, Construction and Dismantling Of A Waste Stockpile and Treatment Area	L.S.

ITEM #0201001A – CLEARING AND GRUBBING

Article 2.01.01 – Description. *Add the following:*

This work shall also include removing and disposing metal beam rail and posts, and relocating large landscape stones and boulders, where indicated on the plans or as directed by the Engineer.

Article 2.01.03 – Construction Methods. *Add the following:*

All large landscape stones and boulders that are specified for removal and relocation shall be removed from the work area, temporarily stockpiled in a location approved by the Engineer, and relocated to a similar location as the existing condition where feasible, or relocated where directed by the Engineer. Final placement of large stones and boulders shall not pose a hazard to the traveling public as determined by the Engineer.

Article 2.01.05 – Basis of Payment. *Add the following:*

All costs associated with removing and disposing of metal beam rail and posts will be included in the price of "Clearing and Grubbing."

All costs associated with removing, stockpiling, and relocating large landscape stones and boulders will be included in the price of "Clearing and Grubbing."

ITEM #0201297A – RELOCATE EXISTING FLAGPOLE

Description: Work under this item shall consist of the removal and relocation of existing flagpoles and installation with new concrete foundations where indicated on the plans. Work under this item shall also include preparing working drawings and submitting for review and approval in accordance with Article 1.20-1.05.02-5.

Materials: Concrete for flagpole foundation shall be Portland cement concrete, minimum compressive strength of 4,400 psi, meeting the requirements of M.03.

Crushed stone for flagpole foundation shall meet the requirements of M.01 for No. 3 coarse aggregate.

All new installation hardware and materials shall be steel meeting the applicable requirements of M.06 unless otherwise approved. Pipe sleeves, as applicable, shall meet the requirements of ASTM A53 and be hot-dipped galvanized unless otherwise approved.

Construction Methods: The Contractor shall prepare working drawings detailing the following: existing flagpole dimensions; existing flagpole foundation and method of connection or attachment to the foundation; removal and temporary storage procedure for flagpole and related appurtenances; new concrete foundation dimensions and materials; new flagpole connection or attachment requirements and materials; special site preparation requirements and safety procedures for removal and installation, as applicable; installation procedure for flagpole and related appurtenances; and any other information requested by the Engineer during the working drawing review process.

Prior to removal of the existing flagpole, the Contractor shall coordinate with the Owner to remove all flags. The Owner will be responsible for storing all flags during construction.

Removal of the flagpole and related appurtenances shall be completed in conformance with the approved working drawings.

Flagpole foundations shall be constructed on a 6-in compacted base course of crushed stone and in conformance with the approved working drawings. Foundations shall be backfilled with compacted suitable material.

Installation of the relocated flagpole and related appurtenances shall be in conformance with the approved working drawings.

Any flagpole or related appurtenance that is damaged during removal, storage, or installation shall be replaced in-kind by the Contractor with new materials at no cost to the State.

For acceptance of the work, it must be possible for a flag to be raised on the complete and relocated flagpole with no additional requirements or provisions.

Method of Measurement: "Relocate Existing Flagpole" will be measured as each relocated flagpole with new concrete foundation, complete and accepted.

Basis of Payment: This work will be paid for at the contract unit price per each for "Relocate Existing Flagpole" which price shall include preparation of working drawings, removal and temporary storage of the existing flagpole and related appurtenances, excavation, concrete foundation, installation hardware and materials, backfill, removal and disposal of surplus materials, installation of the flagpole, and all materials, equipment, tools, and labor incidental thereto.

Pay Item	**Pay Unit**
Relocate Existing Flagpole	ea.

ITEM #0201298A – RELOCATE EXISTING TRASH CAN

Description: Work under this item shall consist of the removal and relocation of existing trash cans where indicated on the plans or as directed by the Engineer. Work under this item shall also include furnishing new anchoring hardware as required for the installation of relocated trash cans.

Materials:
Existing trash cans to be relocated are *Austin*-style "Litter Receptacles" manufactured by landscapeforms®. Manufacturer's *Installation Guide* indicates two (2) anchors are required for surface mounting each trash can. The trash can base adds 1-9/16" to the anchor length.

Anchoring hardware shall be 304 stainless steel wedge anchors with 304 stainless steel nut and washer, 3/8" diameter, length as required to provide 3" minimum embedment depth.

Construction Methods: The Contractor shall take care during the removal of existing trash cans and existing anchoring hardware so that there is no damage to the existing trash cans. The Contractor shall temporarily store the existing trash cans in a protected storage location until such time the trash cans will be installed in their new locations. Trash cans that are damaged during removal or storage shall be replaced by the Contractor at no cost to the State and to the satisfaction of the Engineer.

Relocated trash cans shall be surface-mounted to a concrete slab or sidewalk where shown on the plans or where directed by the Engineer. The orientation of each relocated trash can shall be such that the trash receptacle is directly accessible from the adjacent pavement surface and pedestrian travel path. The side door shall also be able to be fully opened and accessible for regular trash removal. Mounting shall be completed in accordance with the manufacturer's written installation instructions using anchoring hardware specified herein.

Method of Measurement: "Relocate Existing Trash Can" will be measured as each trash can relocated and accepted. Concrete slab or sidewalk will be measured separately for payment.

Basis of Payment: This work will be paid for at the contract unit price per each for "Relocate Existing Trash Can" which price shall include removal and temporary storage of the existing trash can, furnishing new anchoring hardware, mounting the existing trash can to a concrete slab or sidewalk, and all materials, equipment, tools, and labor incidental thereto.

Pay Item	Pay Unit
Relocate Existing Trash Can	ea.

ITEM #0202315A – DISPOSAL OF CONTROLLED MATERIALS

Description:

Work under this item is intended to provide specific procedural requirements to be followed by the Contractor during excavation of excess Controlled Materials from within the project and as shown on the Project Plans. Work under this item shall also consist of stockpiling, covering, securing and maintaining the stockpiled materials and loading, transportation and final off-site disposal/ recycling/treatment of excess controlled materials that have been generated from excavations within the project, brought to the temporary WSA (including material from catch basin cleaning operations) and determined to have concentrations reflective of a typical incidental public roadway release at non-hazardous levels. This is documented in the reports listed in the "Notice to Contractor – Environmental Investigations." The results contained in the environmental investigation reports listed in the "Notice to Contractor – Environmental Investigations" show the levels that the Contractor may encounter during construction. Actual levels found during construction may vary and such variations will not be considered a change in condition provided the material can still be disposed of as non-hazardous at one or more of the disposal facilities listed herein. All materials, excluding the existing pavement structure (asphalt and subbase), rock, ledge, and concrete, excavated within the project, and if considered excess may be considered Controlled Materials, if so, determined by the Engineer. If the vertical limits of the existing subbase cannot be determined visually, the subbase will be presumed to extend 12" below the bottom of the existing pavement. The controlled materials, after proper characterization by the Engineer, shall be taken from the temporary WSA, loaded, transported to and treated/recycled/disposed of at a permitted treatment/recycle/disposal facility listed herein.

The Contractor must use one or more of the following Department-approved treatment/recycle/ disposal facilities for the disposal of non-hazardous controlled materials:

Allied Waste Niagara Fall Landfill, LLC 5600 Niagara Falls Blvd. Niagara, NY 14304 (716) 285-3344; Ralph Larimore	Bondi Island (Covanta) M Street Agawam, MA 01001 (508) 291-4408; Steven Melloni, P.E.
Clean Earth – Hatfield PA (Formerly ESMI of New York) 304 Towpath Lane Fort Edward, NY 12828 (518) 747-5500; Peter Hansen	Clean Earth of Carteret 24 Middlesex Avenue Carteret, NJ 07008 (732) 541-8909; Tejas Shah
Clean Earth of Connecticut (formerly Phoenix Soil LLC) 58 North Washington Street Plainville, CT 06062 (860) 803-1000; Todd Mahler	Clean Earth of New Jersey, Inc. (CENJ) 105/115 Jacobus Avenue Kearny, NJ 07105 (973) 344-4004; Jim Gustavson

Clean Earth of Philadelphia 3201 S. 61 Street Philadelphia, PA 19153 (215) 724-5520; Jim Siravo	Clean Earth of Southeast Pennsylvania, Inc. 7 Steel Road Morrisville, PA 19067 (215) 428-1700; Jim Siravo
Colonie Landfill (Waste Connections, Inc.) 4 Arrowhead Lane Cohoes, NY 12047 (518) 783-2827: Eric Morales	Coplay Aggregates Regulated Fill Site (Materials Solution Services-Brokerage Firm) 5101 Beekmantown Road Whitehall, PA 18052 (610) 440-2301; Brian Hilliard
Cumberland County Landfill (Managed by Interstate Waste Services) 620 Newville Road Newburg, PA 17240 (717) 423-9953; Mike McIntyre	ESMI – Clean Earth 67 International Drive Loudon, NH 03307 (603) 783-0228; Marc Aubrey
Greentree Landfill 635 Toby Road Kersey, PA 15846 (814) 265-1744; Anthony LaBenne	Hazelton Creek Properties, LLC* 280 South Church Street Hazelton, PA 18201 (870) 501-5050; Ronak Patel
Manchester Landfill 311 Olcott Street Manchester, CT 06040 (860) 647-5278; Ray Carr	Ondrick Materials & Recycling, LLC 58 Industrial Road Chicopee, MA 01020 (413) 592-2566; David S. Costanzo
Ontario County Landfill (Managed by Casella Waste) 1879 Routes 5 & 20 Stanley, NY 14561 (603) 235-3597; Scott Sampson	Plainville Landfill Grainger Lane Plainville, CT 06062 (860) 410-3070; John Sullivan
Red Technologies Soil 232 Airline Avenue Portland, CT 06980 (860) 342-1022; Christopher Windangle	Republic Services Conestoga Landfill* 420 Quarry Road Morgantown, PA 19543 (610) 286-6844; James Kuhn
Soil Safe, Inc. 378 Route 130 Logan Township, Bridgeport, NJ 08085 (410) 872-3990; Billy Booth	Soil Safe, Inc. 378 Route 130 Logan Township, Bridgeport, NJ 08085 (410) 872-3990; Billy Booth

Stablex, Canada, Inc. (US Ecology Company) 760 Industrial BLVD Blainville, Quebec J7C 3V4 (800) 404-4408; Eric Congdon	Tunnel Hill Reclamation 2500 Township Road, 205 Route 2 New Lexington, OH 43764 (740) 342-1180; Josh Rennicker
Turnkey Landfill (Waste Management of New Hampshire) 176 Rochester Neck Road, PO Box 7065 Rochester, NH 03839 (800) 963-4776; Ellen Bellio	Waste Management – Middleborough Sanitary Landfill 207 Plympton Street Middleborough, MA 02346 (508) 823-6570; Dave Pope
Waste Management – RCI Fitchburg Landfill 101 Fitchburg Road Westminster, MA 01473 (978) 874-0037; Frank Sepiol	Winchendon Landfill (W.L French Excavating Corp) 580 River Street Winchendon, MA 01475 (978) 600-2125; Jarrett Everton

* - Please note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period in addition to the 15 day lab period designated in the Specifications to allow for Pennsylvania Department of Environmental Protection (PADEP) review.

The above list contains treatment/recycle/disposal facilities which can accept the waste stream generated by the project in quantities that may be limited by their permits and their operations restrictions. It is the responsibility of the contractor to verify that a facility will be available and capable of handling the volume as well as the chemical and physical characteristics of material generated by the project.

Materials:

The required materials shall conform to the requirements of the Contract.

Plastic Sheet: Polyethylene plastic sheeting for underlayment shall be at least 30 mil thick. Polyethylene plastic sheeting for covering excavated material shall be a thickness of 10 mil. Both shall be at least 10 feet wide.

Covers for roll-off/storage containers shall be made of polyethylene plastic, or similar water-tight material, that is of sufficient size to completely cover top opening and can be securely fastened to the container.

Sand Bags: Sandbags used to secure polyethylene covers shall be at least 30 pounds.

Sorbent Boom: Shall be 8 inches in diameter and 10 feet long and possess petrophilic and hydrophobic properties. Sorbent booms shall also have devices (i.e. clips, clasps, etc.) for connection to additional lengths of boom.

Hay Bales shall be mad of hay with 40 lb. minimum weight and 120 lb. maximum weight held together by twine or wire.

Construction Methods:

A. Material Disposal

The Engineer will sample the WSA materials at a frequency established by the selected treatment/recycling/disposal facilities. The Contractor shall designate to the Engineer which facility(ies) it intends to use, as well as the facility acceptance criteria and sampling frequency, prior to samples being taken. The Contractor is hereby notified that the laboratory turnaround time is expected to be fifteen (15) working days. Turnaround time is the period beginning when the Contractor notifies the Engineer which facility it intends to use and that the WSA material is ready for sampling and ending with the Contractor's receipt of the laboratory analytical results. Any change of intended treatment/recycling/disposal facility may prompt the need to resample and will therefore restart the time required for laboratory turnaround. The laboratory will furnish such results to the Engineer. Upon receipt, the Engineer will make available to the Contractor the results of the final waste characterization determinations. **No delay claim will be considered based upon the Contractor′s failure to accommodate the laboratory turnaround time as identified above.**

It is solely the Contractor's responsibility to coordinate the disposal of Controlled Materials with its selected treatment/recycling/disposal facility(ies). The Contractor shall obtain and complete **all paperwork** necessary to arrange for material disposal (e.g., disposal facility waste profile sheets, Qualified Environmental Professional (QEP) certifications/letters, checklists, manifests/shipping papers/bills of lading, and/or any other supporting documentation, etc.). The Contractor shall retain the services of a QEP (i.e., CT Licensed Environmental Professional (LEP), MA Licensed Site Professional (LSP), Certified Hazardous Materials Manager (CHMM), etc.), as necessary, to facilitate the completion of such documents as required by the Contractor's selected disposal facility. Prior to submission to the receiving facility, the Contractor shall provide all disposal documents to the Engineer for review and Generator signature(s), as applicable.

Upon receipt of the final approval from the facility, the Contractor shall arrange for the loading, transport and treatment/recycling/disposal of the materials in accordance with all applicable Federal and State regulations. **No claim will be considered based on the failure of the Contractor's selected disposal facility(ies) to meet the Contractor's production rate or for the Contractor's failure to select sufficient facilities to meet its production rate.**

Any material processing (including but not limited to the removal of woody debris, scrap metal, pressure-treated and untreated wood timber, large stone, concrete, polyethylene sheeting or similar material) required by the Contractor's selected facility will be completed by the Contractor prior to the material leaving the site. It is solely the Contractor's responsibility to meet any such requirements of its facility. Any materials removed shall be disposed of or recycled in a manner acceptable to the Engineer at no additional cost.

All manifests or bills of lading utilized to accompany the transportation of the material shall be prepared by the Contractor and signed by an authorized Department representative, as Generator,

for each truckload of material that leaves the site. The Contractor shall forward the appropriate original copies of all manifests or bills of lading to the Engineer the same day the material leaves the Project.

A load-specific certificate of treatment/recycling/disposal, signed by the authorized agent representing the disposal facility, shall be obtained by the Contractor and promptly delivered to the Engineer for each load.

B. WSA Maintenance

The Contractor shall provide all necessary materials, equipment, tools and labor for anticipated activities within the WSA. Such activities include, but are not limited to, handling and management of stockpiles and drummed CPC/PPE; uncovering and recovering stockpiles; maintenance of the WSA; replacement of damaged components (i.e. sand bags, plastic polyethylene sheeting, etc.); and waste inventory record management and as directed by the Engineer. The Contractor shall manage all materials in the WSA in such a way as to minimize tracking of potential contaminated materials across the site and off site and minimize dust generation.

Each stockpile shall be securely covered when not in active use with a cover of sufficient size to prevent generation of dust, infiltration of precipitation, and wind erosion.

The staged stockpiles shall be inspected at least daily by the Contractor to ensure that the cover and containment have not been damaged and that there is no apparent leakage from the pile. If the cover has been damaged, or there is evidence of leakage from the piles, the Contractor shall immediately replace the cover or containment as needed to prevent the release of materials to the environment from the piles.

An inventory of stockpiled materials and drummed CPC/PPE shall be conducted on a daily basis. Inventory records shall indicate the approximate volume of material/drums stockpiled per day; the approximate volume of material/drums stockpiled to date; material/drums loaded and transported off site for disposal; any materials loaded and transported for on-site reuse; and identification of stockpiles relative to their points of generation.

Following the removal of all stockpiled Controlled Materials, residuals shall be removed from surrounding surfaces of the WSA as directed by the Engineer. This operation shall be accomplished using dry methods such as shovels, brooms, mechanical sweepers or a combination thereof. Residuals shall be collected, controlled and disposed of as Controlled Materials.

C. Dewatering

Dewatering activities shall conform to Items in pertinent articles of the Contract.

D. Dust Control

The Contractor shall implement a fugitive dust suppression program in accordance with the Contract to prevent the off-site migration of particulate matter and/or dust resulting from excavation, loading and operations associated with Controlled Materials. It shall be the Contractor's responsibility to supervise fugitive dust control measures and to monitor airborne particulate matter. The Contractor shall:

1. Employ reasonable fugitive dust suppression techniques.
2. Visually observe the amounts of particulate and/or fugitive dust generated during the handling of Controlled Materials. If the apparent amount of fugitive dust and/or particulate matter is not acceptable to the Engineer, the Engineer may direct the Contractor to implement corrective measures at their discretion, including, but not limited to, the following:

    (a) apply water to pavement surfaces
    (b) apply water to equipment and excavation faces; and
    (c) apply water during excavation, loading and dumping.

E. Material Transportation

In addition to all pertinent Federal, State and local laws or regulatory agency polices, the Contractor shall adhere to the following precautions during the transport of controlled materials off-site:

1. Transported controlled materials are to be covered sufficiently prior to leaving the site to prevent the loss of material during transport. Controlled materials must remain covered until the arrival at the selected treatment/recycling/disposal facility.

2. All vehicles departing from the site are to be properly logged to show the vehicle identification, driver's name, time of departure, destination, approximate volume, and contents of materials carried.

3. No materials shall leave the site unless a treatment/recycling/disposal facility is willing to accept all the material being transported and has agreed to accept the type and quantity of waste.

F. Equipment Decontamination

All equipment shall be provided to the work site free of gross contamination. The Engineer may prohibit from the site any equipment that in their opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the Project site that has not been thoroughly decontaminated prior to arrival.

The Contractor shall furnish labor, materials, tools and equipment for decontamination of all equipment and supplies that are used to handle Controlled Materials. Decontamination shall be conducted at an area designated by the Engineer and shall be required prior to equipment and supplies leaving the Project and between stages of the work.

The Contractor shall use dry decontamination procedures. Residuals from dry decontamination activities shall be collected and managed as Controlled Materials. If the results from dry methods are unsatisfactory to the Engineer, the Contractor shall modify decontamination procedures as required.

The Contractor shall be responsible for the collection and treatment/recycling/disposal of any liquid wastes that may be generated by its decontamination activities in accordance with applicable regulations.

G. Permit Compliance

The Contractor shall comply with the terms and conditions of the most current DEEP "General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer)," including the General Operating Conditions and the Specific Operating Conditions, except that the Engineer will conduct all soil/sediment characterization and perform all record keeping. In particular, the Contractor shall:

1. Operate, maintain and repair the WSA in conformance with the requirements of the General Permit.
2. Maintain a communications system capable of summoning fire, police, and/or other emergency service personnel.
3. Prevent unauthorized entry onto the stockpiles by the use of fences, gates, or other natural or artificial barriers.
4. Separate incidental excavation waste to the satisfaction of the receiving facility or to an extent that renders the contaminated soil and/or sediment suitable for its intended reuse.
5. Isolate and temporarily store incidental waste in a safe manner prior to off-site transport to a facility lawfully authorized to accept such waste.
6. Not store more than 100 cubic yards of incidental waste at any one time.
7. Sort, separate and isolate all hazardous waste from contaminated soil and/or sediment.
8. Prevent or minimize the transfer or infiltration of contaminants from the stockpiles to the ground as detailed above.
9. Securely cover each stockpile of soil as detailed in "B. WSA Maintenance" above.
10. Minimize wind erosion and dust transport as detailed in "D. Dust Control" above.

Method of Measurement:

The work of "Disposal of Controlled Materials" will be measured for payment as the actual net weight in tons of material delivered to the treatment/recycling/disposal facility from the WSA. Such determinations shall be made by measuring each hauling vehicle on the certified permanent scales at the treatment/recycling/disposal facility. Total weight will be the summation of weight

bills issued by the facility specific to this Project. Excess excavations made by the Contractor beyond the payment limits specified in Specification Sections 2.02, 2.03, 2.06, 2.86, or the Contract Special Provisions (as appropriate) will not be measured for payment and the Contractor assumes responsibility for all costs associated with the appropriate handling, management and disposal of this material.

The disposal of excavated materials, originally anticipated to be controlled materials, but determined by characterization sampling not to contain concentrations of regulated chemicals (non-polluted or "clean" materials) will not be measured for payment under this item but will be considered as surplus excavated materials and will be paid in accordance with Article 1.04.05.

Equipment decontamination, the collection of residuals, and the collection and disposal of liquids generated during equipment decontamination activities will not be measured separately for payment.

Any material processing required by the Contractor-selected disposal facility, including the proper disposal of all removed materials other than creosote treated wood, will not be measured for payment.

Basis of Payment:

This work will be paid for at the Contract unit price, which shall include all the intermediate handling steps, stockpiling the Controlled Materials at the WSA, covering, securing, and maintaining the individual stockpiles at the WSA throughout the duration of the project; and all tools, equipment, materials and labor incidental to this work. This item shall also include preparation of **all related waste profile and shipping paperwork**, the loading and transportation of Controlled Materials from the stockpiles to the treatment/recycling/disposal facility; the fees paid to the facility for treatment/recycling/disposal; the preparation of all related paperwork; and all equipment, materials, tools, and labor incidental to this work.

All materials, labor and equipment associated with compliance with the most recent General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer) will not be measured separately but will be considered incidental to this work.

This unit price will be applicable to all of the listed disposal facilities and will not change for the duration of the Project. Nothing herein shall prevent changes as outlined in Article 1.04.02.

This price shall also include equipment decontamination; the collection of residuals generated during decontamination and placement of such material in the stockpiles; and the collection and disposal of liquids generated during equipment decontamination activities. Payment for dust control or dewatering activities shall be made under the appropriate Contract items.

Pay Item	**Pay Unit**
Disposal of Controlled Materials	Ton

ITEM #0210106A – TEMPORARY CHECK DAM

Description: This work shall consist of furnishing, installing, maintaining and removing temporary check dams at the locations shown on the Plans or as directed by the Engineer.

Materials: Materials for temporary check dams shall consist of one or more of the following:

- Broken or Crushed Stone. 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. Broken or crushed stone shall consist of sound, tough, durable stone, reasonably free from soft, thin, elongated, laminated, friable, micaceous or disintegrated pieces, mud, dirt or other deleterious material. Gradation shall be in conformance with M.01.02, Table M.01.02-2, No. 3 coarse aggregate.
- Filter Sock. Filter socks shall be straw wattles, compost filter socks, or fiber rolls meeting the definition of Filter Sock as defined by the *Connecticut Guidelines for Soil Erosion & Sediment Control* (2024).
- Hay Bales. Hay bales shall be in accordance with Section 2.19 of Form 819.

Construction Methods: Temporary check dams shall be installed at the locations and in conformance with the details on the Plans or as directed by the Engineer. Filter socks shall be installed in accordance with the manufacturer's written instructions, as applicable. Hay bales shall be installed in accordance with Article 2.19.03 of Form 819.

The temporary check dams shall be maintained to their original installed condition until removal.

Temporary check dams shall remain in place until directed by the Engineer to remove. The Contractor's means and methods of removal shall not disturb the established slopes, swales, or channels from which they are removed. Any such disturbance resulting from the removal activities shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost to the State. Materials from the removal of temporary check dams shall be disposed off-site by the Contractor.

Method of Measurement: This work shall be measured for payment by the actual number of temporary check dams constructed complete in place, and accepted, as shown on the Plans or as directed by the Engineer.

Basis of Payment: This work will be paid at the contract unit price each for "Temporary Check Dam," complete in place, which price shall include installing, maintaining, removing, and all materials, equipment, tools, and labor incidental thereto.

Pay Item	Pay Unit
Temporary Check Dam	EA.

ITEM #0210116A – STONE CHECK DAM

Description: This work shall consist of furnishing and installing stone check dams at the locations shown on the Plans or as directed by the Engineer.

Materials: Materials for this work shall consist of the following:

1. Crushed 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. Crushed stone shall consist of sound, tough, durable stone, reasonably free from soft, thin, elongated, laminated, friable, micaceous or disintegrated pieces, mud, dirt or other deleterious material. Gradation shall be in conformance with M.01.02, Table M.01.02-2, No. 3 coarse aggregate.
2. Riprap shall meet the requirements of M.12.02-4.

Construction Methods: Stone check dams shall be placed to the lines and dimensions as detailed on the Plans or as directed by the Engineer. Hand shaping of the inlet side face of the dam may be required. The dam shall extend fully between the sides of the channel and be of constant cross section throughout.

Method of Measurement: This work shall be measured for payment by the actual number of stone check dams constructed complete in place, and accepted, as shown on the Plans or as directed by the Engineer.

Basis of Payment: This work will be paid at the contract unit price each for "Stone Check Dam," complete in place, which price shall include all materials, equipment, tools, and labor incidental thereto.

Pay Item	**Pay Unit**
Stone Check Dam	EA.

ITEM #0210821A – WATER POLLUTION CONTROL

Description: This work shall consist of measures to control water pollution and soil erosion which become necessary for the completion of the work, but for which no item is provided in the Contract. Such measures include:

- temporary check dams, water bars, berms, dikes, dams
- temporary sediment traps
- pump settling basins
- silt fence
- inlet protection
- hay bales
- erosion control matting
- fiber rolls, coir rolls, wattles
- gravel, stone, riprap
- mulch
- permanent or temporary seeding
- slope drains, ditches, channels, temporary drainage measures
- dust control
- topsoil
- other erosion control materials, devices, or methods

If a situation arises that requires immediate deployment of water pollution control measures, the Engineer will direct the Contractor to use this item to prosecute the work.

If the Contractor proposes changes in construction methods or staging which would affect the as designed pollution controls, plans for revised pollution controls shall be submitted for the Engineer's approval prior to start of work.

Materials: The materials shall meet the pertinent articles of the Standard Specifications. The Contractor shall submit Product Data for the materials.

Construction Methods: The Engineer has the authority to control the surface area of earth material exposed by construction operations and to direct the Contractor to immediately provide permanent or temporary pollution control measures to protect watercourses, wetlands, or other natural resources. Every effort shall be made by the Contractor to prevent erosion on the Site and prevent runoff onto abutting property.

All disturbed areas shall be permanently or temporarily stabilized by mulching, seeding or other methods as the work progresses to comply with the intent of this specification.

All damaged slopes shall be repaired as soon as possible. The Engineer will limit the surface area of earth material exposed if the Contractor fails to sufficiently protect the slopes.

The Contractor shall always have on hand the necessary materials and equipment to provide for slope stabilization and corrective measures to damaged slopes.

Temporary channels, ditches, water bars and outfalls shall be protected prior to directing water into them.

The erosion control features installed by the Contractor shall be maintained by the Contractor, and such installations shall be removed if ordered by the Engineer. Maintenance of erosion control measures by the Contractor shall include the clean out of accumulated sediment.

Method of Measurement: The work and materials required for Water Pollution Control measures will be measured for payment as provided for under 1.09.04 - Extra and Cost-Plus Work.

The sum of money shown on the estimate and in the itemized proposal as "Estimated Cost" for this work will be considered the price bid even though payment will be made only for actual work performed. The estimated cost figure is not to be altered in any manner by the bidder. Should the bidder alter the amount shown, the altered figures will be disregarded, and the original price will be used to determine the total amount bid for the Contract.

Basis of Payment: Work will be paid for as provided under 1.09.04 - Extra and Cost-Plus Work.

Control measures that are made necessary by the Contractor's failure to install and maintain controls as a part of the work as scheduled or ordered by the Engineer shall be performed by the Contractor at its own expense.

Control work at off-Site areas selected by the Contractor shall be the responsibility of the Contractor.

Pay Item	**Pay Unit**
Water Pollution Control	est

ITEM #0213100A – GRANULAR FILL

Article 2.13.01 – Description. *Delete the last sentence of the paragraph and replace it with the following:*

Where used as a base material within a stormwater quality basin or pond, the granular fill shall not contain any reclaimed miscellaneous aggregate or asphalt cement.

Article 2.13.02 – Materials *is deleted in its entirety and replaced with the following:*

2.13.02 – Materials: Granular fill shall meet the requirements of M.02.01, except where used as a base material within a bioretention basin, the granular fill shall not contain any reclaimed miscellaneous aggregate or asphalt cement.

ITEM #0219011A – SEDIMENT CONTROL SYSTEM AT CATCH BASIN

Description: Work under this item shall consist of furnishing, installing, maintaining, replacing, and removing sediment control system at catch basins, herein referred to as Silt Sack, at the locations as shown on plans or as directed by the Engineer. The work shall also include removal of accumulated sediment, and disposal of accumulated sediment,

Materials: The Silt Sack must be commercially produced and marketed for the specific application(s) on the Project. All Silt Sack must be manufactured from a specially designed woven polypropylene geotextile sewn material. The Silt Sack must be able to handle flows of at least 180 gallons per minute per square foot, fit any sized catch basin or drop inlet, and be UV resistant.

The Silt Sack product shall be one of the following or an approved equal:

1. Siltsack®
2. Dandy Sack®
3. FleXstorm Catch-It™
4. PIG®Sediment-Drain Filter
5. ACF Environmental Silt Sack

The Sediment Control System at Catch Basin must have the following features: two dump straps attached at the bottom to facilitate the emptying of the Silt Sack and lifting straps to be used to lift the Silt Sack from the catch basin or drop inlet. The Silt Sack shall have a restraint cord approximately halfway up to keep the sides away from the catch basin or drop inlet walls. When required, a curb deflector shall be installed as directed by the Engineer.

Product Data for the Silt Sack to be used by the Contractor must be submitted for review and acceptance by the Engineer or their authorized delegate prior to the installation on-Site.

Construction Methods: The Contractor shall install the Silk Sack per the manufacturer's instructions and recommendations at each catch basin or drop inlet as shown on the plans or as directed by the Engineer to provide inlet protection to prevent silt, sediment, or debris from entering the stormwater drainage system.

When the Silt Sack becomes 1/2 full of accumulated sediment, the Contractor shall empty, clean, and replace the Silt Sack back into the catch basin or drop inlet. Sediment emptied shall be considered unsuitable material and be disposed of at an off-Site approved upland facility per federal, State, and local environmental laws and regulations.

At the completion of the Project, the Contractor shall remove all Silt Sacks within the Project limits. Any spilled sediment material during removal operations shall be removed by the Contractor at no cost to the State.

Method of Measurement: Sediment Control System at Catch Basin will be measured as each installed, maintained, accepted, and removed. There will be no separate measurement for maintenance or replacement associated with this item.

Basis of Payment: The item "Sediment Control System at Catch Basin" will be paid at the Contract unit price for each completed system in place and accepted, which price shall include installing, maintaining, replacing, removal of material, off-Site disposal of accumulated material, materials, equipment, tools, and labor incidental thereto.

The cost of installing hay bales, geotextile, check dam, or fiber roll for inlet protection shall be paid for under their respective Contract item or special provision.

Pay Item	**Pay Unit**
Sediment Control System at Catch Basin	ea.

ITEM #0406002A – TEMPORARY PAVEMENT

Description: This work shall consist of the installation and removal of temporary pavement at the locations shown on the Plans or as directed by the Engineer. The work shall include the following:

1. Excavation, removal, and disposal of all existing materials within the limits of the temporary pavement including sawcutting of any existing pavement,
2. Grading and compacting remaining subbase or subgrade,
3. Furnishing, installation, and compaction of new subbase,
4. Application of tack coat as required on the vertical edges of any sawcut areas and between pavement lifts,
5. Placement and compaction of bituminous concrete pavement,
6. Removal of all materials associated with the temporary pavement work as shown in the Contract documents or determined by the Engineer.

This work does not include restoration of the area to a permanent condition after temporary pavement is removed, including turf establishment or final paving, which shall be performed under separate items.

Materials: Materials for this work shall consist of the following:

1. Processed Aggregate Base shall meet the requirements of Article M.05.01.
2. Bituminous concrete meeting the requirements of Section M.04. The bituminous concrete mix used shall be HMA S0.5 Traffic Level 2 unless indicated otherwise on the Plans, or when an equivalent mix type is requested by the Contractor and approved by the Engineer at least 5 days in advance.
3. Tack coat meeting the requirements of Section M.04.

Construction Methods: Equipment for this work shall include pavement cutting as required, excavation, removal, handling, grading, placement, and compaction equipment for existing or new materials to perform all temporary pavement installation and removal operations. The Contractor shall also provide a 10-foot straightedge.

1. The limits of temporary pavement shall be identified as shown on the Plans or as directed by the Engineer.
2. Any existing pavement shall be sawcut as required. All existing materials within the temporary pavement limits (including but not limited to asphalt or concrete pavement, granular base, subbase, subgrade, fill, topsoil, and curbing) shall be excavated to the depth indicated on the Plans in accordance with Section 2.02. Excavated materials shall be removed and properly disposed of in accordance with Article 1.10.03.
3. Remaining subbase or subgrade shall be graded and compacted in accordance with Section 2.09. A minimum of four (4) passes, or coverages, shall be made by any one compaction device.
4. Processed Aggregate Base shall be installed and compacted in accordance with Article 3.04.03 to the depth shown on the Plans.

5. When applicable, the sawcut sides of any excavated areas shall be wiped or swept clean, and tack coat shall be applied covering the entire area of the vertical pavement faces and allowed to cure in accordance with Section 4.06.
6. HMA S0.5, or other approved mix type, shall be placed and compacted in accordance with Article 4.06.03 and as shown on the Plans.
7. The Contractor shall confirm that the surface elevation of the finished temporary pavement matches the elevation of the surrounding pavement surface to within ¼ inch using the 10-foot straightedge when applicable.
8. Each lift of the temporary pavement surface course shall not vary more than ¼ inch from a Contractor-supplied 10-foot straightedge. Any surface that exceeds this tolerance shall be corrected by the Contractor at their own expense.
9. All materials associated with the temporary pavement work shall be removed and properly disposed of in accordance with Article 1.10.03 at a time specified within the Contract documents or as directed by the Engineer.
10. All temporary pavement work shall be maintained in a safe and satisfactory condition until the temporary pavement area has been restored to its preexisting condition or replaced with the construction of permanent pavement or other surface type as shown in the Contract documents. All temporary pavement repairs shall be provided by the Contractor at no additional cost to the State.

Method of Measurement: This work will be measured by the number of square yards of temporary pavement installed and removed at the locations shown on the Plans or as directed by the Engineer.

Basis of Payment: This work will be paid for at the Contract unit price per square yard for "Temporary Pavement," completed and accepted. The price shall include all tools, materials, labor, and equipment including sawcutting, excavation, removal, and disposal of all materials, grading and compacting existing subbase or subgrade, placement, grading, and compacting new subbase, application of tack coat, and placement and compaction of bituminous concrete materials.

Restoration of the area to a permanent condition after temporary pavement is removed, including turf establishment or final paving, will be paid under separate items.

There will be no additional payment for correction of temporary pavements that do not meet the specified surface tolerance when measured with the 10-foot straightedge. There will be no additional payment for repair of temporary pavements.

Pay Item	**Pay Unit**
Temporary Pavement	s.y.

ITEM #0406999A – ASPHALT ADJUSTMENT COST

Description: The Asphalt Adjustment Cost will be based on the variance in price for the performance-graded binder component of the following:

I. Hot Mix Asphalt (HMA) and Polymer Modified Asphalt (PMA),
II. Ultra-Thin Bonded HMA (UTB-HMA) and Ultra-Thin Bonded PMA (UTB-PMA),
III. Thin Friction Wearing Course (TFWC),
IV. Binder Rich Intermediate Courses (BRIC) and Stone Matrix Asphalt (SMA), and
V. Asphalt Rubber Chip Seal (ARCS) treatments completed and accepted during the Contract.

The Asphalt Price is available on the Department of Transportation website at:
http://www.ct.gov/dot/asphaltadjustment

Construction Methods:

An asphalt adjustment will be applied only if all the following conditions are met per mixture:

I. For HMA, PMA, TFWC, BRIC, and SMA mixtures:
   a. The HMA, PMA, TFWC, BRIC, or SMA mixture for which the adjustment would be applied is listed as a Contract item with a pay unit of tons.
   b. ***The total quantity for all HMA, PMA, TFWC, BRIC, and SMA mixtures in the Contract or individual purchase order (Department of Administrative Service contract awards) exceeds 1000 tons or the Project duration is greater than 6 months.***
   c. The difference between the posted *Asphalt Base Price* and *Asphalt Period Price* varies by more than $5.00 per ton.

II. For UTB-HMA and UTB-PMA mixtures:
   a. The UTB-HMA or UTB-PMA mixture for which the adjustment would be applied is listed as a Contract item.
   b. ***The total quantity for the UTB-HMA or UTB-PMA mixture in the Contract exceeds:***
      i. 800 tons if the UTB-HMA or UTB-PMA item has a pay unit of tons,
      ii. 30,000 square yards if the UTB-HMA or UTB-PMA item has a pay unit of square yards, or
      iii. the Project duration is greater than 6 months.
      Note: The quantity of UTB-HMA or UTB-PMA measured in tons shall be determined from the material documentation requirements set forth in the UTB-HMA or UTB-PMA item specification.
   c. The difference between the posted *Asphalt Base Price* and *Asphalt Period Price* varies by more than $5.00 per ton.
   d. No Asphalt Adjustment Cost will be applied to the liquid emulsion that is specified as part of the UTB-HMA or UTB-PMA mixture system.

III. For Asphalt Rubber Chip Seal (ARCS) treatments:
   a. The ARCS treatment for which the adjustment would be applied is listed as a Contract item.

b. ***The total quantity for the ARCS treatment in the Contract exceeds 30,000 square yards or the Project duration is greater than 6 months.***

Note: The quantity of asphalt binder measured in tons used for the Asphalt Rubber Chip Seal treatment shall be determined from the material documentation requirements set forth in the ARCS item specification. The Asphalt Adjustment Cost will also be applied to the asphalt binder used to pre-coat the cover aggregate as part of the ARCS and will be considered as a portion of the total tons of binder for the treatment. The additional quantity of binder measured in tons will be determined based on a percentage of the cover aggregate weight per the requirements set forth in the ARCS item specification.

c. The difference between the posted *Asphalt Base Price* and *Asphalt Period Price* varies by more than $5.00 per ton.

Regardless of the binder used in all mixtures or treatments, the Asphalt Adjustment Cost will be based on PG 64-22.

The Connecticut Department of Transportation (CTDOT) will post on its website, the average per ton selling price (asphalt price) of the performance-graded binder. The average is based on the high and low selling price published in the most recent available issue of the **Asphalt Weekly Monitor®** furnished by Poten & Partners, Inc. under the "East Coast Market – New England, New Haven, Connecticut area," F.O.B. manufacturer's terminal.

The selling price furnished from the Asphalt Weekly Monitor ® is based on United States dollars per standard ton (US$/ST).

Method of Measurement:

A. **Formula A: HMA x [PG%/100] x [(*Period Price - Base Price*)] = $ ____**

Where:

- **HMA:**
  1. For HMA, PMA, UTB-HMA, UTB-PMA, TFWC, BRIC, and SMA mixtures with pay units of tons:
     The quantity in tons of accepted HMA, PMA, UTB-HMA, UTB-PMA, TFWC, BRIC, or SMA mixture measured and accepted for payment.
  2. For UTB-HMA and UTB-PMA mixtures with pay units of square yards:
     The quantity of UTB-HMA and UTB-PMA mixture delivered, placed, and accepted for payment, calculated in tons as reported according to the Material Documentation provision of the UTB-HMA and UTB-PMA specification.
- ***Asphalt Base Price***: The asphalt price posted on the CTDOT website 28 days before the actual bid opening posted.
- ***Asphalt Period Price***: The asphalt price posted on the CTDOT website during the period the HMA, PMA, UTB-HMA, UTB-PMA, TFWC, BRIC, or SMA mixture was placed.
- **PG%** (Performance-Graded Binder percentage):
  1. For HMA or PMA mixes:
     - PG% = 4.5 for HMA S1 and PMA S1

- PG% = 5.0 for HMA S0.5 and PMA S0.5
- PG% = 6.0 for HMA S0.375, PMA S0.375, HMA S0.25 and PMA S0.25

2. For UTB-HMA, UTB-PMA, TFWC, BRIC, and SMA mixes:
   - PG% = Design % PGB (Performance Graded Binder) in the approved job mix formula, expressed as a percentage to the tenth place (e.g. 5.1%)

B. For Asphalt Rubber Chip Seal:

Formula B: Total Tons x [(*Period Price - Base Price*)] = $ ____

Where:

- ***Total tons:*** The tons of asphalt binder for each lot of asphalt rubber produced, as reported according to the Testing and Certification article of the specification for Asphalt Rubber Chip Seal, and the tonnage of binder used to coat the cover aggregate calculated as follows: 0.6% x tons of cover aggregate.
- ***Asphalt Base Price***: The asphalt price posted on the CTDOT website 28 days before the actual bid opening posted.
- ***Asphalt Period Price***: The asphalt price posted on the CTDOT website during the period the Asphalt Rubber Chip Seal mixture was placed.

The Asphalt Adjustment Cost shall not be considered as a changed condition in the Contract as result of this provision since all bidders are notified before submission of bids.

Basis of Payment: The "Asphalt Adjustment Cost" will be calculated using the applicable formula(s) indicated above. A payment will be made for an increase in costs. A deduction from monies due the Contractor will be made for a decrease in costs.

The sum of money shown on the Estimate and in the itemized proposal as "Estimated Cost" for this item will be considered the bid price although the adjustment will be made as described above. The estimated cost figure is not to be altered in any manner by the bidder. If the bidder should alter the amount shown, the altered figure will be disregarded and the original cost figure will be used to determine the amount of the bid for the Contract.

Pay Item	**Pay Unit**
Asphalt Adjustment Cost	est.

ITEM #0586050.10A – SPECIAL TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 – 0'-10' DEEP

Description: The work under this item shall consist of furnishing, preparing, and installing a Special Type 'C-L' Catch Basin Double Grate -Type II structure with orifices, and top with frame and grate, in conformity with the lines, grades, dimensions and details shown on the plans and as described in this specification.

Materials: The materials for this work shall meet the following requirements:

- Special Type 'C-L' Catch Basin Double Grate – Type II shall be in conformance with CTDOT Highway Standard Sheet HW-586_06, Precast Catch Basin Types for Double Grate Type II for the base, riser and reducer sections, including joints between sections.
- Top for Special Type 'C-L' Catch Basin Double Grate – Type II shall be in conformance with CTDOT Highway Standard Sheet HW-586_07c, Catch Basin Type "C" and "C-L" Double Grate Tops.
- Frame and grate for top shall be in conformance with CTDOT Highway Standard Sheet HW-586_08, Catch Basin Frames and Grates.
- Special Type 'C-L' Catch Basin, including base, riser, and reducer sections, and top shall meet the requirements of M.08.02 and shall utilize concrete with a 28-day minimum compressive strength of 4000 psi.
- Mortar shall meet the requirements of M.11.04.
- Butyl rubber joint seal shall meet the requirements of ASTM C990.
- Granular fill, if necessary, shall meet the requirements of M.02.01.
- Protective compound material shall be a type acceptable to the Engineer, as specified in M.03.09.

Shop drawings shall be submitted for the following items:

- Special Type 'C-L' Catch Basin Double Grate -Type II structure with orifices
- Special Type 'C-L' Catch Basin Double Grate -Type II top with frame and grate

Construction Methods: Drainage trench excavation, including rock in drainage trench excavation and backfilling, shall be performed in accordance with 2.86.03 and the requirements of the plans.

Where a Special Type Catch Basin is to be installed below the surface, a drainage trench shall be excavated to the required depth, the bottom of which shall be graded to the elevation of the bottom of the proposed drainage structure or to ensure a uniform foundation for the structure.

Where a firm foundation is not encountered at the grades established due to unsuitable material, such as soft, spongy, or unstable soil, the unsuitable material shall be removed and replaced with approved granular fill, thoroughly compacted in lifts not to exceed 6 inches. The Engineer shall be notified prior to removal of the unsuitable material in order to determine the depth of removal necessary.

When rock, as defined in 2.86.01-2, is encountered, work shall be performed in accordance with 2.86.03 and the requirements of the plans.

Special Type Catch Basins shall be constructed in accordance with the plans and the requirements contained herein for the character of the work involved. The provisions of 6.02.03 pertaining to bar reinforcement shall apply except that shop drawings need not be submitted for approval unless called for in the plans, Contract, or directed by the Engineer.

The surfaces of the top shall be given a coat of protective compound material, at the manufacturer's recommended application rate, immediately upon completion of the concrete curing period.

All masonry units shall be laid in full mortar beds.

All inlet and outlet pipes shall be set flush with the inside face of the wall of the Special Type Catch Basin as shown on the plans. The pipes shall extend through the walls for a sufficient distance beyond the outside surface to allow for satisfactory connections, and the concrete or masonry shall be constructed around them neatly to prevent leakage along their outer surfaces.

Backfilling shall be performed in accordance with 2.86.03.

Method of Measurement: This work will be measured for payment by the actual number of Special Type 'C-L' Catch Basins Double Grate -Type 2 with orifice and installed with top, and frame and grate, complete in place, and accepted.

There will be no measurement or direct payment for the application of the protective compound material; the cost of this work shall be considered as included in the general cost of the work.

Basis of Payment: This work will be paid for at the Contract unit price each for "Special Type 'C-L' Catch Basin Double Grate - Type 2 – 0'-10' Deep" complete in place, which price shall include all excavation, backfill, top, frame and grate, and all equipment, materials and labor incidental thereto.

Pay Item	**Pay Unit**
Special Type 'C-L' Catch Basin Double Grate Type 2 – 0'-10' Deep	EA.

ITEM #0586850.01A – HYDRODYNAMIC SEPARATOR (SITE NO. 1)
ITEM #0586850.02A – HYDRODYNAMIC SEPARATOR (SITE NO. 2)

Description: This item includes furnishing and installing a hydrodynamic separator, a proprietary device manufactured for stormwater treatment. The hydrodynamic separator shall be a precast concrete structure and shall include an internal chamber that induces a swirling, circular, or spiraling flow pattern in the stormwater flow to separate and trap sediment and pollutants in a chamber that can be accessed for later removal.

This item shall also include furnishing and installing a flow diversion structure, manholes and pipes with the treatment capacity and to the dimensions and details shown on the plans or as directed by the Engineer. This item also includes the preparation of hydraulic design calculations for the hydrodynamic separator(s) and flow diversion structure(s) done in accordance with the Hydrodynamic Separator Guidelines as specified herein.

This item shall also include cleaning of the hydrodynamic separator of all sediment and debris every 90 days, or as directed by the Engineer, from the installation date until final acceptance of the Project.

Materials: The hydrodynamic separator shall be assembled and installed in strict compliance with the Manufacturer's instructions unless otherwise directed by the Engineer. Internal flow controls, diversion components, external appurtenances, concrete manhole riser sections, manhole frames and covers, reinforcing, threaded inserts, lifting and seating fixtures, non-shrink grout, and all other necessary materials to complete the work shall be included.

Qualified Products and Manufacturer Information: Proprietary hydrodynamic separators currently qualified by the Department are listed in **Table 1 "CTDOT LIST OF QUALIFIED HYDRODYNAMIC SEPARATORS**" based on a general review of the product's construction, function and treatment capabilities. Company contact information is provided but the Department is not responsible for its accuracy. The Engineer will reject any proposed hydrodynamic separator that is not listed in Table 1.

Performance: The stormwater treatment performance of the selected hydrodynamic separator shall be calculated by the Contractor based on Water Quality Flow (WQF) as defined in the Department's current version of the Drainage Manual.

The hydrodynamic separator shall be designed by the Contractor to treat the entire WQF as indicated in the Contract, without bypass, either through the separator's internal components or at the flow diversion structure.

TABLE 1 - CTDOT LIST OF QUALIFIED HYDRODYNAMIC SEPARATORS

HYDRODYNAMIC SEPARATOR NAME	COMPANY INFORMATION
Barracuda MAX	Advanced Drainage Systems Inc. 4640 Trueman Blvd. Hilliard, OH 43026 (614) 658-0050 https://www.adspipe.com
Cascade	Contech Engineered Solutions 9025 Centre Point Dr. West Chester, OH 45069 (800)-338-1122 https://www.conteches.com/
CDS	
SciCloneX	
Concentrator	AquaShield Inc. 2733 Kanasita Drive Suite 111 Chattanooga, TN 37343 (423)-870-8888 https://www.aquashieldinc.com/
Xcelerator	
Downstream Defender	Hydro International 94 Hutchins Drive Portland, ME 04102 (207)-756-6200 https://hydro-int.com/en
First Defense	
DVS	Oldcastle Infrastructure 7000 Central Prkwy, Suite 800 Atlanta, GA 30328 (888)-965-3227 https://oldcastleinfrastructure.com/
HydroDome	Hydroworks, LLC 257 Cox St. Roselle, NJ 07203 (848)-235-5950 https://hydroworks.com/
HydroStorm	
SAFL Baffle	Upstream Technologies Inc. 5201 East River Rd. – Suite 303 Fridley, MN 55421 (651) 237-5123 https://upstreamtechnologies.us/

Hydrodynamic separator systems and models that have been qualified for use on Department projects and their corresponding maximum allowable WQFs for stormwater treatment are shown in **Table 2**, "**PERFORMANCE MATRIX FOR CTDOT QUALIFIED HYDRODYNAMIC SEPARATORS.**", within the Hydrodynamic Separator Guidelines July 2024.

For more severe storm events that produce flows up to and including the Drainage Design Flow (DDF) and which result in flows greater than the WQF being directed to the hydrodynamic separator from the flow diversion structure, the hydrodynamic separator shall be designed to handle the portion of the DDF directed to it without surcharging the upstream storm drainage system and re-suspending previously trapped sediment.

The WQF to be treated and the portion of the DDF directed to the hydrodynamic separator when the drainage system is operating at its design flow are shown on the Hydrodynamic Separator Design Data Sheets (Form A - Design attached). A separate form for each hydrodynamic separator on the Project shall be submitted by the Contractor with the Working Drawings.

Sediment Storage Capacity: Settleable solids shall accumulate in a location within the hydrodynamic separator structure that is accessible for cleaning and maintenance but not susceptible to resuspension. Manhole access in the precast concrete unit shall be provided to the sediment storage chamber and all other chambers to facilitate maintenance.

The standard sediment storage capacities for Department qualified hydrodynamic separator systems/models are shown in **Table 3**, "**STANDARD SEDIMENT STORAGE CAPACITY FOR CTDOT QUALIFIED HYDRODYNAMIC SEPARATORS**", within the Hydrodynamic Separator Guidelines July 2024. The capacities are based on standard structure dimensions and anticipated maintenance requirements.

The Manufacturer may increase the sediment storage capacity by increasing the depth of the standard structure. The sediment storage capacity of the proposed modified structure shall be determined by the Contractor in accordance with **Table 4, "SEDIMENT STORAGE CAPACITY CALCULATION"** , within the Hydrodynamic Separator Guidelines July 2024. Revised sediment storage capacity determinations shall be clearly documented in the Working Drawing submission to the Department.

The minimum sediment storage capacities required for each hydrodynamic separator on the Project are shown on the Hydrodynamic Separator Design Data Sheets (Form A – Design attached).

Hydraulic Design: The Contractor shall prepare or have prepared a Hydraulic Grade Line (HGL) analysis for an evaluation of the selected hydrodynamic separator(s) and the design of the flow diversion structure(s). The HGL analysis shall be performed for both the WQF and the DDF. The analysis shall be consistent with the methodology described in Section 11.12 of the Department's Drainage Manual.

Head loss coefficients, to be used in the HGL analysis, shall be determined in accordance with Section 11.12.6 for all structures except the hydrodynamic separator, which shall be obtained from the Manufacturer. Documentation shall be submitted demonstrating how the coefficient was derived either through calculation or testing data. A benching factor of 1.0 shall be applied to the flow diversion structure.

The HGL analysis (or portion of) that was performed by the Department for the design of the storm drainage systems and preparation of the construction plans, including the design of the flow diversion structure and evaluation of a “generic” hydrodynamic separator, is shown on the Hydrodynamic Separator Design Data Forms (Form A – Design attached).

Since the selected hydrodynamic separator and associated connecting pipes and structures may differ from the one assumed in the design phase of the Project, the hydraulic calculations performed for the drainage design must be replicated and revised to reflect any adjustments necessary to the drainage design for installation of the selected system (such as different flow-line elevations, head loss coefficient, pipe sizes). The selected hydrodynamic separator shall be designed so as not to change the drainage system upstream of the flow diversion structure or to increase the HGL elevation upstream of the flow diversion structure. Any modifications necessary to the overall drainage design as a result of the Contractor selected hydrodynamic separator shall be the responsibility of the Contractor.

The new HGL analysis must demonstrate the following conditions:

1. The hydrodynamic separator can treat the WQF with no bypass. The HGL elevation at the flow diversion structure for the WQF shall be below the weir elevation or elevation of flow bypass that is listed in the design data form or shown on the plans, so that all of the WQF is directed to the hydrodynamic separator for treatment. The HGL elevation in the hydrodynamic separator at the WQF shall be below the elevation of internal bypass so that all of the WQF is treated by the system.

2. When the drainage system is operating at the DDF, the hydraulic computations must show that the HGL elevation at the flow diversion structure is lower than or equal to the HGL elevation shown on Form A for the DDF and the HGL elevation in the hydrodynamic separator, and must be a minimum of one foot below the top (ground) elevation of the structure. A HGL elevation in the flow diversion structure for the DDF which is higher than the corresponding HGL elevation shown on Form A may be accepted by the Engineer only if hydraulic computations are submitted showing that the higher HGL elevation will provide a minimum of one foot of freeboard below the top (ground) elevation of the flow diversion structure and the upstream drainage structures, satisfying the design criteria in the Drainage Manual. To demonstrate compliance, the hydraulic analysis shall extend to a point upstream in the drainage system that is not influenced by the proposed changes and where the results converge with the previous design analysis. In such a case, the Contractor shall request a copy of the design analysis from the Department. A freeboard less than one foot may be accepted by the Engineer on a case by case basis provided that a justification of the reason has been included with the HGL analysis.

3. When the drainage system is operating at the DDF, the resulting HGL elevation and flow split, at the flow diversion structure, has been designed such that the portion of the DDF directed to the hydrodynamic separator does not exceed the maximum flow shown on the Hydrodynamic Separator Design Data Sheets (Form A - Design). Documentation must be provided to show that the flow in excess of the WQF can pass through the device without washout of the previously captured sediment or the device shall be equipped with an internal bypass to route the excess flow around the treatment chamber.

Upon conclusion of the HGL analysis, the Hydrodynamic Separator Design Data Sheets (Form B – Contractor Proposal) shall be completed by entering the HGL analysis data and other required information.

Hydrodynamic Separator Selection: The listed tables can be found in the Hydrodynamic Separator Guidelines July 2024. The selection process of a proprietary hydrodynamic separator for installation on a Department project is outlined by the following steps:

1. Select the available product(s) from Table 2 (**PERFORMANCE MATRIX FOR CTDOT QUALIFIED HYDRODYNAMIC SEPARATORS**) that meets or exceeds the WQF treatment specified on the Hydrodynamic Separator Design Data Sheets (Form A - Design attached).

2. Using Table 3 (**STANDARD SEDIMENT STORAGE CAPACITY FOR CTDOT QUALIFIED HYDRODYNAMIC SEPARATORS**), check whether the initially selected product(s) in Step 1, meets or exceeds the minimum sediment storage requirement specified on the Hydrodynamic Separator Design Data Sheets (Form A - Design). In some cases, the required sediment storage capacity will govern the model size required for the Project. In lieu of selecting a larger model to accommodate the sediment storage requirement, the Contractor may submit Working Drawings showing how a standard model has been modified as recommended by the Manufacturer, to satisfy the sediment storage requirement. When a modification is proposed by increasing the depth of the standard structure, **Table 4 (SEDIMENT STORAGE CAPACITY CALCULATION)** shall be used to determine the sediment storage capacity of the proposed structure.

3. **Hydrodynamic separator system/models pre-qualified by the Department shall not be construed to mean that all products appearing on Tables 2 and 3 are suitable to any specific Site or drainage design.** The Contractor shall verify the constructability of the selected hydrodynamic separator in relation to dimensional, structural, geotechnical and right-of-way constraints at each installation Site. If revisions to the drainage design, including the system layout, are required to accommodate the selected separator, the Contractor shall provide working drawings showing the revised layout, including the position of the hydrodynamic separator and the number, positions and types of connecting structures, the design of the flow diversion structure, and any other components of the system within the pay limits shown on the plans. The Working Drawings shall be prepared in sufficient detail to perform a hydraulic analysis and confirm that the layout will fit the constraints of each Site.

4. Upon determination that the WQF, sediment storage and constructability requirements have been met, the Contractor shall prepare or have prepared, a HGL analysis in accordance with the hydraulic requirements which includes the selected hydrodynamic separator and any revisions to the drainage design needed for the installation.

5. The Hydrodynamic Separator Design Data Sheets (Form B – Contractor Proposal) shall be completed and signed by a Professional Engineer licensed by the State of Connecticut.

6. The computations must be accepted by the Engineer prior to the purchase or installation of any units.

Fabrication: Materials used to fabricate the precast concrete hydrodynamic separator including precast concrete units, brick, concrete masonry units, manhole frames and covers shall meet the requirements specified in Standard Specifications Article M.08.02, and the 28 day compressive strength shall be a minimum of 4000 psi.

The Contractor shall provide a Materials Certificate in accordance with 1.06.07 for each unit delivered to the Project. Upon request, the Contractor shall also provide Certified Test Reports for the fine and coarse aggregates and all cementitious materials, and the concrete mix design indicating the weight of each component, used in the construction of the precast units for review. The structures shall not be shipped until released by the Contractor's Quality Control Manager or designee.

The wall and slabs of the precast concrete units shall be designed to sustain HS20-44 loading requirements.

Manholes and Catch Basins shall meet the requirements of Section 5.86 of the Standard Specifications. The manhole cover of the hydrodynamic separator shall have the letters "HDS" permanently stamped or embossed on the top.

Granular fill shall meet the requirements of Article M.02.01 of the Standard Specifications.

Non-shrink grout shall meet the requirements of Article M.03.05 of the Standard Specifications.

Drainage pipe, sealant and gaskets shall meet the requirements of Article M.08.01 of the Standard Specifications.

Mortar shall meet the requirements of Article M.11.04 of the Standard Specifications.

Sealant used for the hydrodynamic separator unit(s) shall be resistant to oil and other hydrocarbons and shall meet the requirements of ASTM C443.

Construction Methods:
Working Drawings: Working Drawings in accordance with Article 1.05.02–2 shall be submitted for the system selected by the Contractor. The Working Drawings shall include the HGL analysis and all other computations in strict accordance with the "Hydraulic Design" section of this special provision, including a completed Form B – Contractor Proposal.

If revisions to the layout of the system within the payment limits as shown on the plans are required to accommodate the selected separator, the Working Drawings shall also include plans that show the required revisions. The revised position of the hydrodynamic separator unit(s), and all revisions to connecting structures, pipes, elevations, and details, including the design within the flow diversion structure shall be shown. The revised plans shall also include the pay limits showing all the components of the system that are included.

Working Drawings shall also show details for construction, reinforcing joints, internal and external components, any cast-in-place appurtenances, locations and elevations of pipe openings, access manhole locations and elevations, and the type and method of sealing pipe entrances.

Working Drawings for each hydrodynamic separator on the Project shall have all appropriate vertical dimensions referenced with elevations that are consistent with the plans. In addition to any other structural, material or installation requirements, the Working Drawings shall clearly indicate the following information:

1. The elevation and flow rate when internal flow bypass would occur within the device.

2. The location, dimensions and volume (capacity) of the sediment storage area within the device.

The Working Drawings shall be signed and sealed by a Professional Engineer licensed in the state where the devices are manufactured and that engineer shall certify the device meets the minimum requirements.

The Working Drawing submission shall consist of the following documents:

1. Working Drawings for each hydrodynamic separator proposed for installation on the Project.

2. Hydraulic design calculations including the head loss documentation and completed Hydrodynamic Separator Design Data Sheets (Form B – Contractor Proposal) with Professional Engineer signature for each hydrodynamic separator.

3. Copies of the pertinent construction plan, profile, cross section and detail sheets that have been annotated with any proposed drainage revisions required for the installation of the proposed hydrodynamic separator(s). If no changes are required, it shall be noted on the submittal.

4. An Operation and Maintenance Manual for each hydrodynamic separator describing operations, inspection, maintenance procedures and any applicable warranty information.

Acceptance of the Working Drawing submission by the Engineer must be obtained by the Contractor prior to the fabrication of each hydrodynamic separator and diversion structure.

The Contractor shall inspect the hydrodynamic separator and any accessory equipment upon delivery for general appearance, dimensions, soundness or damage in a manner acceptable to the Engineer. If any defects or damage are identified by the inspection, the unit shall be rejected by the Contractor and a new undamaged hydrodynamic separator shall be supplied. Any required adjustments of the separator shall be completed in accordance with Manufacturer's recommendations. A Manufacturer's representative and the Engineer will inspect the hydrodynamic separator before installation.

The Contractor shall install the hydrodynamic separator structure in accordance with the Manufacturer's recommendations unless otherwise directed by the Engineer. The hydrodynamic separator shall be installed plumb, level and aligned both vertically and horizontally with the inlet and outlet piping. The hydrodynamic separator shall be placed on compacted granular fill to the depth recommended by the Manufacturer or a minimum depth of 6 inches, whichever is larger. Anchoring systems shall be installed, where needed, to resist buoyancy forces. Care shall be taken not to damage the hydrodynamic separator during backfill and compaction.

Pipe openings in the hydrodynamic separator shall be sized to accept pipes of the specified size(s) and material(s) as shown on the plans and shall be sealed. The inlet and outlet pipe connections shall be watertight. The hydrodynamic separator shall be tested for leakage according to the Manufacturer's specifications and to the satisfaction of the Engineer. Any leaks must be located and corrected to the satisfaction of the Engineer prior to acceptance of the structure.

Access openings with manhole frames and covers shall be provided to all chambers of the hydrodynamic separator. The access openings and pipe openings shall be detailed on the Working Drawings submitted by the Contractor for review and acceptance by the Engineer.

All connecting structures and pipes included within the payment limits for this work shall be constructed in accordance with the applicable requirements of Article 5.86.03 and Article 6.86.03.

Method of Measurement: Design, fabrication, furnishing, installation and cleaning of the hydrodynamic separator, flow diversion structure, manholes and pipes within the pay limits as shown on the plans, including all internal and external appurtenances and materials used, will be measured for payment by each Site complete and accepted.

Basis of Payment: This work will be paid for at the Contract unit price for each "HYDRODYNAMIC SEPARATOR (SITE NO. X)," complete and accepted in place, which price shall include all work within the pay limits shown on the plans for hydrodynamic separator. If revisions to the layout of the system within the payment limits for this item are required to accommodate the selected separator, the unit price shall also include all additional or revised connecting structures and pipes.

The Contract unit price shall include the following:

1. Design, preparation, revisions of Working Drawings and hydraulic computations.

2. Concrete and reinforcing steel, sealant, cement, mortar, flexible rubber sleeves, internal and external components, brick and masonry, frames and covers used to construct access manholes.

3. Flow diversion structure, manholes and pipes as shown on the plans or as revised and shown on submitted Working Drawings accepted by the Engineer.

4. Structure excavation, backfill, and disposal of surplus material.

5. Compacted granular fill.

6. Trench excavation and bedding material.

7. Cleaning of the installed Hydrodynamic Separator, flow diversion structure, manholes and pipes of all debris every 90 days, or as directed for the duration of the Project.

8. The Operation and Maintenance Manual for each hydrodynamic separator.

The price shall include all materials, testing, equipment, tools and labor incidental thereto.

Pay Item	Pay Unit
Hydrodynamic Separator (Site No. 1)	ea.
Hydrodynamic Separator (Site No. 2)	ea.

Attachments:

1. Hydrodynamic Separator Design Data Sheets (Form A – Design), Sheets 1 & 2 of 2.

2. Hydrodynamic Separator Design Data Sheets (Form B – Contractor Proposal), Sheets 1 & 2 of 2 (blank), to be completed and submitted with the working drawings.

HYDRODYNAMIC SEPARATOR - SITE NO. 1

CONNECTICUT DEPARTMENT OF TRANSPORTATION HYDRODYNAMIC SEPARATOR DESIGN DATA SHEETS (FORM A - DESIGN)

Project No	0131-0211	Route No.	I-84	Prepared By:	MBR	Date:	6/12/25
Town	Southington	Location/Station	Rest Area	Checked By:		Date:	
				Company:			

HYDROLOGIC DATA

Drainage Area (Acres)	5.34
Percent Impervious Area %	43
Time of Concentration (min.)	10
Drainage Design Flow (cfs)	12.85
Drainage Design Frequency (yr)	10
Water Quality Flow (cfs)	2.64

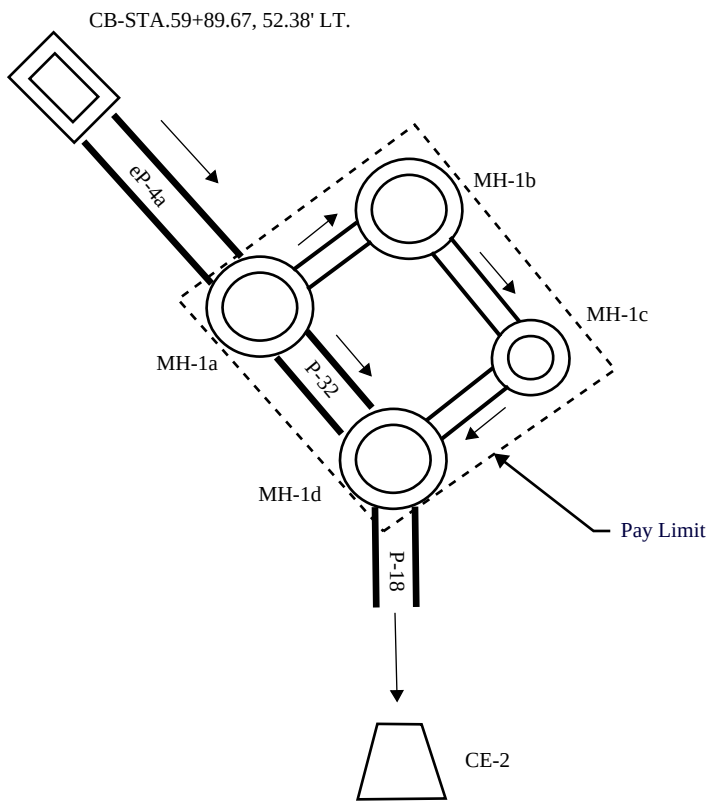
HYDRODYNAMIC SEPARATOR (HS)

Coordinates:		Datum:	
X:	958,119.20	Horiz.	NAVD 88
Y:	769,591.12	Vert.	NAD 83
Head loss coefficient		1.75	
Sediment Storage Capacity (cy):		HGL Elevation:	
Required	4.75	@ WQF	2.64
		@ Design Q	12.85
Maximum Flow to HS at Drainage Design Flow (cfs)			6.6

Comments:

FLOW DIVERSION STRUCTURE

Type	5 Ft.' Diameter Manhole with Weir		
Weir and/or Bypass Elev.	184.13		
Weir Length (ft.)	5	Weir Coeff. (C)	3.1
HGL Elevation:		Flow Split @ Drainage Design Flow	
@ WQF	183.0	To HS	6.6
@ Design Q	184.68	Bypassing HS	6.25



Sketch (NTS) - Indicate Pay limits

Comments:

Sheet 1 of 2

HYDRODYNAMIC SEPARATOR - SITE NO. 2

CONNECTICUT DEPARTMENT OF TRANSPORTATION HYDRODYNAMIC SEPARATOR DESIGN DATA SHEETS (FORM A - DESIGN)

Project No	0131-0211	Route No.	I-84	Prepared By:	MBR	Date:	6/12/25
Town	Southington	Location/Station	Rest Area	Checked By:		Date:	
				Company:			

HYDROLOGIC DATA

Drainage Area (Acres)	1.92
Percent Impervious Area %	100
Time of Concentration (min.)	10
Drainage Design Flow (cfs)	12.49
Drainage Design Frequency (yr)	10
Water Quality Flow (cfs)	2.15

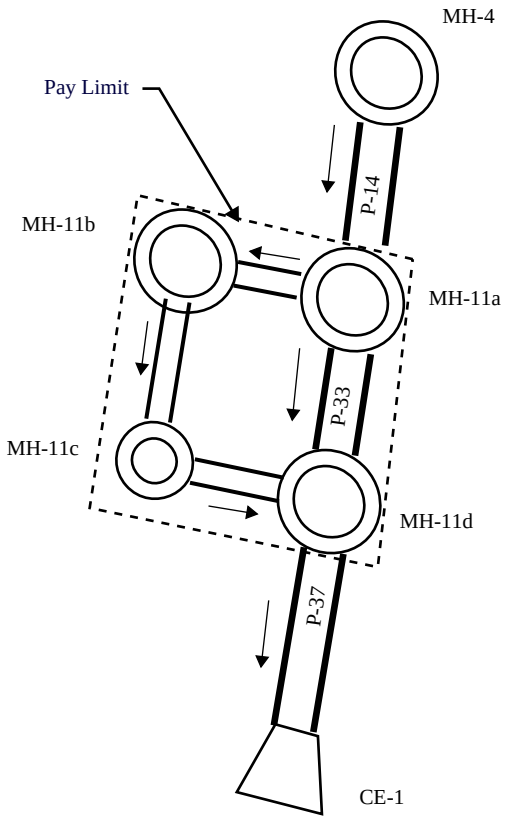
HYDRODYNAMIC SEPARATOR (HS)

Coordinates:		Datum:	
X:	958,030.43	Horiz.	NAVD 88
Y:	769,324.14	Vert.	NAD 83
Head loss coefficient		1.75	
Sediment Storage Capacity (cy):		HGL Elevation:	
Required	2	@ WQF	2.15
		@ Design Q	12.49
Maximum Flow to HS at Drainage Design Flow (cfs)			5.37

Comments:

FLOW DIVERSION STRUCTURE

Type	5 Ft.' Diameter Manhole with Weir		
Weir and/or Bypass Elev.	184.3'		
Weir Length (ft.)	5	Weir Coeff. (C)	3.1
HGL Elevation:		Flow Split @ Drainage Design Flow	
@ WQF	183.74	To HS	5.37
@ Design Q	184.89	Bypassing HS	7.12



Sketch (NTS) - Indicate Pay limits

Comments:

Sheet 1 of 2

CONNECTICUT DEPARTMENT OF TRANSPORTATION HYDRODYNAMIC SEPARATOR DESIGN DATA SHEETS (FORM A - DESIGN)

Project No:		**Location/Station:**		**Date:**	

HYDRAULIC GRADE LINE ANALYSIS

Pipe	Downstream Str.	Pipe Size (in)	Flow (cfs)	Ground Elev. OUT (ft)	Invert Elev. OUT (ft)	HGL OUT (ft)	Depth OUT (ft)	Vel. Head OUT (ft)	EGL OUT (ft)	Length (ft)	Friction Slope (ft/ft)	Friction Loss (ft)	EGL IN (ft)	Vel. Head IN (ft)	HGL IN (ft)	Depth IN (ft)	Invert Elev. IN (ft)	Ground Elev. IN (ft)	Upstream Str.	Headloss Coeff.	Str. headloss (ft.)

Sheet 2 of 2

CONNECTICUT DEPARTMENT OF TRANSPORTATION HYDRODYNAMIC SEPARATOR DESIGN DATA SHEETS (FORM B - CONTRACTOR PROPOSAL)							
Project No		Route No.		PE Signature:			
Town		Location/Station					
HYDROLOGIC DATA (Copy from FORM A - DESIGN)				Name:		Date:	
Drainage Area (Acres)				License No:		State:	
% Impervious Area				Company:			
Time of Concentration (min.)							
Drainage Design Flow (cfs)							
Drainage Design Frequency (yr)							
Water Quality Flow (cfs)							
HYDRODYNAMIC SEPARATOR (HS)							
Manufacturer							
Model Name							
Model No.							
Coordinates:		Datum:					
X:		Horiz.					
Y:		Vert.					
Sediment Storage Capacity (cy):		HGL Elevation:					
Required		@ WQF					
Installed		@ Design Q					
Head loss coefficient							
FLOW DIVERSION STRUCTURE							
Type							
Weir and/or Bypass Elev.							
Weir Length (ft.)		Weir Coeff. (C)					
HGL Elevation:		Flow Split @ Drainage Design Flow (cfs):					
@ WQF		To HS					
@ Design Q		Bypassing HS		Sketch (NTS)			
Comments:							
Sheet 1 of 2							

CONNECTICUT DEPARTMENT OF TRANSPORTATION HYDRODYNAMIC SEPARATOR DESIGN DATA SHEETS (FORM B - CONTRACTOR PROPOSAL)

Project No:		Location/Station:		Date:	

HYDRAULIC GRADE LINE ANALYSIS

Pipe	Downstream Str.	Pipe Size (in)	Flow (cfs)	Ground Elev. OUT (ft)	Invert Elev. OUT (ft)	HGL OUT (ft)	Depth OUT (ft)	Vel. Head OUT (ft)	EGL OUT (ft)	Length (ft)	Friction Slope (ft/ft)	Friction Loss (ft)	EGL IN (ft)	Vel. Head IN (ft)	HGL IN (ft)	Depth IN (ft)	Invert Elev. IN (ft)	Ground Elev. IN (ft)	Upstream Str.	Headloss Coeff.	Str. headloss (ft.)

Sheet 2 of 2

ITEM #0586886.01A – TRASH RACK

Description: The work under this item shall consist of furnishing and installing metal trash racks on special type catch basins in conformity with the dimensions and details and in the locations shown on the plans and as described in this specification.

Materials: The materials for this work shall meet the following requirements:

- Round bars and flat stock shall be 6061-T6 Aluminum Alloy, or steel in conformance with the applicable provisions of M.06.01 and M.06.02 and galvanized in conformance with M.06.03. Minimum diameter of round bars shall be 1/2". Maximum bar spacing shall be 3 1/2". All bar-to-bar and bar-to-flat stock intersections shall be welded in conformance with AWS D1.1 or AWS D1.2 requirements, as applicable.
- Fasteners for trash rack installation shall be 316 Stainless Steel concrete wedge anchors.

Trash racks can be custom-fabricated or manufactured off-the-shelf product(s) meeting the material and dimensional requirements of the Project.

Shop drawings shall be submitted for each unique trash rack size required for the Project.

Construction Methods: The trash rack shall be installed on the outside face of the special type catch basin, centered horizontally over the orifices, and with the top of the trash rack vertically aligned with the top of the highest orifice. The trash rack shall be fastened to the special type catch basin using stainless steel concrete wedge anchors inserted through pre-drilled holes in the flat stock. The hole locations shall be field-adjusted as needed to prevent splitting, cracking, chipping, or punching through the catch basin structure while accommodating the fastener manufacturer's minimum edge distance and spacing requirements. The fasteners shall be installed in conformance with the manufacturer's installation instructions.

Method of Measurement: This work will be measured for payment by the actual number of Trash Racks installed, complete in place, and accepted.

Basis of Payment: This work will be paid for at the Contract unit price each for "Trash Rack" complete in place, which price shall include all equipment, materials and labor incidental thereto.

Pay Item	Pay Unit
Trash Rack	EA.

ITEM #0653001A – CLEAN EXISTING CATCH BASIN

Work under this item shall conform to the requirements of Section 6.53 of the CTDOT Standard Specifications, Form 819, supplemented and amended as follows:

6.53.03 – Construction Methods: *Add the following:*

Cleaning of any drainage system shall include storage of waste material, and proper disposal of non-hazardous catch basin cleanout waste generated during cleaning activities at a facility approved by the Department. Facilities approved for non-hazardous catch basin cleanout waste disposal can be found in the attached CTDOT Approved Treatment, Storage, and Disposal Facilities List.

For the purposes of temporary storage of catch basin cleanout materials prior to final disposition, a CTDOT-owned location shall be selected by the Contractor and submitted for review and approval by the Engineer. The Contractor shall construct an approximately 20’ x 30’ bin block structure on a pervious surface at the approved location if such storage bin does not already exist. Placing the block structure on a pervious surface is intended to allow for drainage of dewatering wastewater underneath and around the bin. The bin structure shall be two courses high to ensure proper control of the material and to reduce spillage onto impervious surfaces. At the completion of the Project, the Contractor shall apply topsoil and seed to reestablish vegetation within and surrounding the bin structure. The bin structure shall be left in place at the end of the Project by the Contractor and will become CTDOT property unless otherwise authorized by the Engineer.

Discharges of dewatering wastewater to surface water is strictly prohibited (e.g. wastewater entering an on-Site catch basin). At the catch basin structures located downgrade of the storage bin, see Miscellaneous Details – Storage Bin, hay bales and filter sacks shall be installed. Hay bale systems shall be installed lengthwise along the contour with ends of adjacent bales tightly abutting each other. All hay bales shall be installed so that bindings are oriented around the sides, rather than along the tops and bottoms. Gaps shall be filled with hay or straw to prevent water or debris escaping between bales. Installation, cleaning, removal, and maintenance of the filter sacks shall be per manufacturer’s instructions and recommendations.

6.53.04 – Method of Measurement: *Add the following:*

The construction of the block structure storage bin will not be measured for payment. The installation, cleaning, maintenance or replacement of the hay bales and filter sacks in catch basins will not be measured for payment.

6.53.05 – Basis of Payment: *Add the following:*

The work and materials to construct the block structure storage bin will be paid for at the Contract unit price each for “Clean Existing Catch Basin.”

CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF. Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
ACV Enviro - Cycle Chem (ACV Enviro - Parent company)	217 South First Street Elizabeth, NJ 07206	Robert Nitko - Director of Environmental Compliance Anthony Marty- Environmental Compliance Manager	rnitko@republicservices.com amarty@republicservices.com	Facility: 908-355 -5800 Robert (O): 908-312-5896 Robert (M): 732-540-9481 Anthony (O): 862-276-0257	TSDF	Solids, Liquids	RCRA Hazardous Waste, TSCA Waste	Y	N	Y	Y	Y	Y	Case by case acceptance	All waste requires profile prior to shipment to facility. Some waste treatment done at facility.
Allied Waste Niagara Falls Landfill, LLC (Republic Services, Parent Company)	5600 Niagara Falls Blvd. Niagara, NY 14304	Ralph Larimore	rlarimore@republicservices.com	Facility: 716-285-3344 Ralph (O): 716-371-4222 Ralph (M): 716-471-7071	Disposal	Solids	Non-hazardous wastes; industrial solid waste; municipal sewage treatment sludges; contaminated soil and debris; asbestos waste; construction and demolition debris; industrial process sludge	Y	Y	Y	N	N	Y	Not Accepted	Friable and non-friable asbestos accepted.
American Lamp Recycling, LLC	55 Riverview Drive Marlboro, NY 12542	Robert Judkins - President	robert@americanlamprecycling.com	Facility: 845-896-0058 Robert ext. 100	Recycling	Solids	Fluorescent lights, electronics	N	N	N	Y	Y	N	Not Accepted	Do not accept: leaking batteries, broken/leaking mercury containing devices, or leaking PCB lighting ballast Do accept: PCB ballasts, crushed fluorescent lamps (if from CT, broker to another transporter/facility same goes for PCB ballasts because ALR can't pick up and transport these items from CT in their trucks), computer electronics, intact mercury containing devices.
Bondi Island Landfill (Covanta)	M Street Agawam, MA 01001	Steven Melloni, P.E. - Area Residuals Manager	smelloni@covanta.com	Steven (O): 508-291-4408 Steven (M): 508-789-9880	Disposal	Solids	Non-hazardous ash residue and cover soil (including street sweepings) that meets MassDEP COMM-97-001 acceptance criteria for lined landfills.	Y	N	N	N	N	N	Not Accepted	
Clean Earth - Hatfield, PA (FKA Stericycle and Republic Environmental Systems)	2869 Sandstone Drive Hatfield, PA 19440	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 215-822-2676 Jim: 401-781-6340	TSDF	Industrial Solids and Sludges, Aqueous Wastes, Contaminated Soil, PCB Wastes < 50 ppm, Oil and Petroleum Wastes, Organic Wastes	RCRA hazardous wastes	Y	Y	Y	Y	Y	Y	Yes	TSDF; treated lumber accepted (case-by-case)
Clean Earth Fort Edward (Formerly Environmental Soil Management of New York, LLC (ESMI of New York))	304 Towpath Lane Fort Edward, NY 12828	Peter Hansen - General Manager	phansen@harsco.com	Facility: 518-747-5500 Peter (M) 518-703-9319	Recycling	Solids	Contaminated soil. Non hazardous waste. NYDEC oversite benzene, DO18 MGP	Y	N	N	N	N	N	Not Accepted	Accepts: Non-TSCA PCB contaminated soil up to 45ppm. Non-hazardous soil treatment and processing on site.
Clean Earth of Carteret	24 Middlesex Avenue Carteret, NJ 07008	Tejas Shah - General Manager	trshah@harsco.com	Facility: 732-541-8909 Tejas: 201-283-4227	Recycling	Solids	Non-hazardous soils (commercial and residential), rock, brick, asphalt, concrete	Y	N	N	N	N	N	Not accepted	Biological treatment facility. Sediments cannot be dredged sediments.
Clean Earth of Connecticut (FKA Phoenix Soil)	58 North Washington Street, Plainville, CT 06062	Todd Mahler - General Manager	tmahler@harsco.com	Facility: 860-747-8888	Recycling	Solids	Non-hazardous, non-TSCA, contaminated soil and dredge material	Y	N	N	N	N	N	Not Accepted	No free liquid in soil.
Clean Earth of North Jersey, Inc. (CENJ)	105/115 Jacobus Avenue Kearny, NJ 07105	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 973-344-4004 Jim: 401-781-6340	TSDF	Solids, liquids, sludges	TSCA waste, RCRA hazardous waste, non-hazardous waste	Y	Y	N	Y	Y	Y	Yes	RCRA Part B permitted TSDF, Treated lumber and asbestos accepted (case-by-case).
Clean Earth of Philadelphia, Inc.	3201 S. 61st Street Philadelphia, PA 19153	Joe Siravo- General Manager	jsiravo@harsco.com	Facility: 215-724-5520 Joe: 215-428-1700	Recycling	Solids	Non-hazardous soils, coal tar, used oil and virgin petroleum contamination	Y	N	N	N	N	N	Not Accepted	
Clean Earth of Southeast Pennsylvania LLC.	7 Steel Road Morrisville, PA 19067	Joe Siravo- General Manager	jsiravo@harsco.com	Facility: 215-428-1700	Recycling	Solids	Non-hazardous soil, MGP Waste	Y	N	N	N	N	N	Not Accepted	

CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF. Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
Clean Earth Rhode Island (FKA Stericycle and PSC Environmental Systems)	275 Allens Avenue Providence, RI 02905	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 401-781-6340	TSDF	Liquids and Solids	RCRA hazardous wastes	Y	Y	Y	Y	Y	Y	Yes	Treated lumber, construction debris, and asbestos accepted (case-by-case).
Clean Harbors - Cincinnati (Spring Grove) Facility	4879 Spring Grove Avenue, Cincinnati, OH 45232	Stephen Vasse- General Manager Jim Laubsted - Compliance Manager	Vasses@cleanharbors.com laubstedj@cleanharbors.com	Facility: 513-681-6242 Stephen: (O) 513-823-2285 Stephen (M): 513-200-7571	TSDF	Liquids, Solids and Sludges	TSCA, RCRA aqueous organic and inorganic wastewaters, PCB wastewater treatment	Y	Y	Y	Y	Y	Y	Accepted with special request	*Clean Harbors Emergency Line 800-645-8265 can be called to get to an operator in order to be redirected to a general facility contact. Most facility lines now get redirected to corporate, so it can be difficult to get in direct contact of Clean Harbors Facilities
Clean Harbors Environmental Services, Inc.- Cleveland Facility	2900 Rockefeller Avenue Cleveland, OH 44115	James Laubsted - Compliance Manager Santiago (Albert) Benavides - Facilities Manager	laubstedj@cleanharbors.com benavidesa@cleanharbors.com	Facility: 216-429-2402 James: 630-854-2549 Santiago: 216-857-2228	TSDF	Liquids	RCRA aqueous organic and inorganic wastewater treatment.	N	N	N	N	N	N	Not Accepted	Discharge to POTW. Exemption of RCRA Part B permit. Operating under Clean Water Act. Wastewater has to be low in certain organics. Cannot contain oil.
Clean Harbors Environmental Services, Inc. Kimball Incineration Facility	2247 South Highway 71 Kimball, NE 69145	Alyssa King - Facility Compliance Manager Brad Reader - General Manager	king.alyssa@cleanharbors.com readerb@cleanharbors.com	Facility: 308-235-4012 Alyssa (O): 308-235-8212 Alyssa (M): 513-417-9470 Brad (O): 308-235-8201	TSDF	Solids and Liquids	TSDF, RCRA hazardous wastes - Subtitle C standards	Y	Y	Y	Y*	Y*	N	Not Accepted	*Materials accepted, but not treated on site. PCB limit is <50 ppm, can't accept material with detectable dioxin furan, radioactive norm or tenorm waste, or biohazard material.
Clean Harbors of Baltimore, Inc.	1910 Russell Street Baltimore, MD 21230	Ed Romeo - General Manager Charles Hart - General Manager II	romeoe@cleanharbors.com hart.charles2@cleanharbors.com	Facility: 410-244-8200 Charles (M): 443-537-5177	TSDF	Liquids	RCRA aqueous organic and inorganic wastewaters, sludges.	N	N	N	Y	Y	Y	Not Accepted	Primary function of facility is wastewater treatment. All other accepted streams are truck to truck transferring.
Clean Harbors of Braintree, Inc.	1 Hill Avenue Braintree, MA 02184	Dave Medina - Operations Manager Andrew Rodgers - General Manager	medinad@cleanharbors.com rogers.andrew@cleanharbors.com	Facility: 781-380-7100 Dave (M): 781-364-5356 Andrew (O) 781.380.7154 Andrew (M) 781.713.9006	TSDF	Solids and Liquids	RCRA, TSCA wastes, PCBs.	Y	Y	Y	Y	Y	Y	Case-by-case	For additional Clean Harbors facility contacts; John Goodno - N.E. Regional Account Manager goodno.john@cleanharbors.com John (M) 475-777-4004
Clean Harbors of Connecticut, Inc.	51 Broderick Road Bristol, CT 06010	Kathryn Bailly- Facility General Manager Wallace Bell - Compliance Manager	Bailly.Kathryn@cleanharbors.com bellm@cleanharbors.com	Facility: 860-583-8917 Kathryn: (w) 860-302-1959 (c) 860-833-9242 Wallace: 978-609-8705	TSDF	Solids and Liquids	Permitted wastewater facility and RCRA Part B facility. Disposal for waste water. TSDF.	Y	Y	Y	Y	Y	Y	Accepted	
Clean Harbors of Woburn (Murphy's Waste Oil Services, Inc.)	252 Salem Street Woburn, MA 01801	Nicole Matthews - Facility Supervisor Steve Cadigan - General Manager	dumas.nicole@cleanharbors.com cadigans@cleanharbors.com	Facility: 781-935-9066 800-522-4645 (toll free)	TSDF	Liquids	Oil recycling facility. Waste oils, antifreeze, ethyl glycol, automotive oil containing water.	N	N	N	N	N	N	Not Accepted	No propyl glycol accepted. Everything must have manifest with facility EPA ID. Transporter ID accepted ONLY in case of emergency. Virgin product only accepted with certification. Contact for specific halogen and flashpoint requirements.
Colonie Landfill (Waste Connections, Inc.)	4 Arrowhead Lane Cohoes, NY 12047	Corey Judd - District Manager Eric Morales - Sales Representative	coreyj@wasteconnections.com Ericmo@wcnx.org	Facility Office: 518-783-2827 Facility Scale House: 518-783-2845 Eric: 518-951-0794	Disposal	Solids	Contaminated soil	Y*	N	N	N	N	N	Case-by-case*	*Permit allows for railroad tie, asbestos and other specific waste acceptance only if associated with contaminated soil disposal.
Coplay Aggregates Regulated Fill Site (Material Solution Services-Brokerage Firm)	5101 Beekmantown Road Whitehall, PA 18052	Brian Hilliard - Director of Compliance	bhilliard@coplayagg.com	Office: 610-440-2301 Brian (M): 610-509-7679	Disposal	Solids	Regulated fill in accordance with PADEP Management of Fill Policy (Contaminated Soil) .	Y	N	Y	N	N	N	Not Accepted	** Please note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Hazelton Creek as a disposal option.
Cumberland County Landfill Managed by Waste Management of PA,	Landfill: 620 Newville Road Newburg, PA 17240 Hauling Division: 135 Vaughn Road Shippensburg, PA 17257	Mike McIntyre - District Manager (WM)	mmcinty2@wm.com	Facility: 717-423-9953 Mike (M): 610-551-1029	Disposal	Solids	MSW, non-hazardous waste	Y	Y	Y	N	N	Y	Accepted: no longer than 4ft, TCLP testing	

CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF. Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
Dudley Reclamation Project (W.L. French Excavating Corp.)	123 Oxford Avenue Dudley, MA 01571	Jarrett Everton - Director of Environmental Services	jeverton@wlfrench.com	Facility: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-haz, MassDEP RCS-1 and RCS-2 compliant soils	Y	N	N	N	N	N	Not Accepted	
Envirite of PA INC (US Ecology York; A Republic Service Facility)	730 Vogelsong Road York, PA 17404	Jon Corl - General Manager Erika Rabuck - Compliance Manager Stef Hersh - Transport Manager	jon.corl@usecology.com erika.rabuck@usecology.com stef.hersh@usecology.com	Facility: 717-846-1900 Jon: 717-770-9290	TSDF	Liquids and Solids	RCRA hazardous wastes.	Y	N	Y	Y	Y	Y	3x3, or lab specs	No biohaz, explosives or radioactive waste accepted.
ESMI - A Clean Earth Company (Formerly Environmental Soil Management Inc.)	67 International Drive Loudon, NH 03307	Marc Aubrey - General Manager Michael Phelps - Sales contact Matthew Perras - Approvals and Compliance	maubrey@harsco.com mphelps@harsco.com mperras@harsco.com	Facility: 603-783-0228 Marc (M): 603-316-7210 Mark: 603-783-0228 Matthew: 603-783-0228	Recycling	Solids	Thermal processing of petroleum contaminated soil.	Y	N	N	N	N	N	Not Accepted	No free liquid in soil. Permits are under" ESMI- a Clean Earth Company".
Fish Road Reclamation Project (W.L. French Excavating Corp. and Rampco Construction Co.)	Fish Road Dudley, MA 01571	Jarrett Everton - Director of Environmental Services	jeverton@wlfrench.com	Facility: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-hazardous. Soils below MassDEP RCS-1 criteria. Note that soils with arsenic at concentrations up to 100 mg/Kg can be accepted if from a naturally occurring source. Otherwise, arsenic must be below 20 mg/Kg .	N	N	N	N	N	N	Not Accepted	
Globalcycle, Inc.	700 Richmond St. East Taunton, MA 02718	John Roy - Assistant General Manager Kyle Kennedy - General Manager	jroy@globalcycleinc.com kkennedy@globalcycleinc.com	Facility: 508-828-1005 John (M): 774-330-9510 (O): 508-386-8748 Kyle (M): 774-504-1136 (O): 508-828-1005	Recycling	Liquids	Non-hazardous wastewater.	Y	N	N	N	N	N	Not Accepted	Asbestos containing waste must be double bagged and barreled
Greentree Landfill	635 Toby Road Kersey, PA 15846	Anthony (Tony) LaBenne - Sales/Compliance Don Henrichs - Landfill Manager	alabenne@nobleenviro.com dhenrichs@nobleenviro.com	Facility: 814-265-1744 Tony (M): 814-590-9906	Disposal	Solids, Liquids	MSW, C&D, asbestos, TSCA with specs PCB remediation waste < 50 ppm, bulk product >50ppm. petroleum contaminated soils, non-hazardous solid waste.	Y	Y	Y	N	N	Y	Accepted: no size requirements, TCLP testing/ state approval	** Please note that if this facility is to be used, each bin (non-construction or MSW) letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Greentree as a disposal option.
Hazleton Creek Properties, LLC (Hazelton Mine Reclamation Project)	280 South Church Street Hazleton, PA 18201	Ronak Patel - Environmental Director	ronak@hcassociates.org	Facility: 570-501-5050 Ronak (O): 570-878-4852 Ronak (M): 570-878-4852	Disposal	Solids	Fresh, brackish or marine dredge material, coal ash, cement kiln dust, lime kiln dust, co-gen ash, regulated fill, brick, concrete, asphalt (no millings)	Y	N	N	N	N	N*	Not Accepted	** Note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Hazelton Creek as a disposal option.
Heritage Hazardous Waste Landfill (Heritage Environmental Services, LLC)	4370 West County Road 1275N Roachdale, IN 46172	Steve Cross - Regional Corporate Accounts Manager	scross@heritage-enviro.com	Corporate Office: 877-436-8778 Steve (M): 315-406-9342	Disposal	Solids	RCRA hazardous wastes.	Y	N*	N*	N	N	Y	Accepted	*Treated lumber and construction bulk waste are accepted case-by-case. PCB solids accepted
Liquid Solutions, LLC	90 Brookfield Street, South Windsor, CT 06074	Bruce Devanney - Account Manager Dispatch - Appointments/scheduling	BDevanney@e-s-i.com	Bruce (M): (860) 250-3426 Dispatch: (860) 528-9500	Disposal	Solids, Liquids	Non-hazardous catch basin clean-out wastes	N	N	N	N	N	N	Not Accepted	Disposal testing costs included in quoted disposal unit cost; Non-hazardous material only; Disposal by appointment only.
Maplewood Farms (Operated by Lighthouse Environmental Management)	24 Ball Hill Road Berlin, MA 01503	Kevin Francis Gervais - Operations Manager (Lighthouse Environmental)	pradeep@lighthousemgmt.com shannon@lighthousemgmt.com	617-699-5245	Disposal/Soil Reclamation	Fill Soil	Non-haz fill soil with acceptance criteria based on MassDEP Similar Soil Provision Guidance (SSPG) (WSC#13-500), concentrations RCS-1 or lower.	N	N	N	N	N	N	Not Accepted	
Manchester Landfill	311 Olcott Street Manchester, CT 06040	Ray Carr - Landfill Work Coordinator	rcarr@manchesterct.gov	Facility: 860-647-5278 Ray (O): 860-647-3179	Disposal	Solids	Non-hazardous waste, contaminated soil, manufacturer waste, sewer related waste - no longer accepted after September 31, 2022	Y	Y	Y	N	N	N	Not accepted	Transfer facility on-site for residential solid waste, some liquid oil and antifreeze waste, and MSW. Mercury containing devices accepted ONLY at hazardous waste events for residents.

CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF. Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
Marilyn's Landing / BFI Halifax Landfill (operated by MacDonald Industries)	946 Plymouth Street Bridgewater, MA 02324	Marilyn MacDonald - Operations Manager (MacDonald Industries) Paul Muniz (Environmental Partners, LLC)	marilyn@macdonald-indtries.com pmuniz@ctlep.com	Facility: 508-294-0173 Paul (O): 860-251-9059 Paul (M): 860-883-2511 Marilyn (O): (508) 294-0173	Disposal	Solids	Non-hazardous soil, combination of MassDEP RCS-1 and RCS-2 contamination levels depending on the contaminant class.	N	N	N	N	N	N	Not Accepted	Non-haz, combination of MassDEP RCS-1 and RCS-2 contamination levels depending upon the contaminant class. PFAs sampling may be required, if suspected to be present.
Mostoller Landfill, Inc. (Currently Managed by Waste Management of PA)	7095 Glades Pike Road Somerset, PA 15501	Scott Dellinger - Industrial Account Manager (WM) Judd Piemme - Manager, Environmental Protection Ryan Czarnota - Landfill Operations Manager	sdellinge@wm.com jpiemme@wm.com rczarnot@wm.com	Corporate Office: 814-444-0112 Scott (M): 412-475-2808 Judd (M): 724-344-8897 Ryan (M): 716-262-6970	Disposal	Solids	MSW, C&D debris, residual waste, sewage sludge, incinerator ash. TSCA and RCRA, if approved.	Y*	Y	Y	N	N	Y	Accepted if tested and approved by DEP	*Sediments must pass paint filter test. Subtitle D Landfill. Tipper on site for trailer loads.
NLR Inc. (Northeast Lamp Recycling, Inc.)	250 Main Street East Windsor, CT 06088	Joel Gornbein - Business Development Manager	j.gornbein@nlr-green.com	Corporate Office: 877-822-4733 Joel (O): 860-627-9611 Joel (M): 860-209-4599	Recycling	Solids	CRW: mercury containing devices and universal wastes, PCB ballast, fluorescent bulbs.	N	N	N	Y	Y	N	Not Accepted	Do not accept aerosols. Do accept CPUs (computers) and various battery types, but if leaking need to be separately packaged and contained.
Ondrick Materials & Recycling, LLC	58 Industry Road Chicopee, MA 01020	David S. Costanzo- Environmental Divisions Manager	DCostanzo@ondrickmr.com general mailbox: soils@ondrickmr.com	Facility: 413-592-2566 David (M): 413-335-1817	Recycling	Solids	Petroleum contaminated soil.	Y	N	N	N	N	N	Not Accepted	MassDEP permit Class A Level 3 recycling facility. See permit authorization page on website. Asphalt batch plant. No dredge sediment/ only loamy type soil accepted
Ontario County Landfill (Managed by Casella Waste)	1879 Routes 5 & 20 Stanley, NY 14561	Scott Sampson – Sales & Marketing Casella Waste Systems	scott.sampson@casella.com	Facility: 585-526-4420 Scott (M): 603-235-3597	Disposal	Solids	MSW, non-hazardous wastes, special wastes incl. asbestos, ash from boilers/incinerators, contaminated soil, demo debris.	Y	Y	Y	N	N	Y	Accepted: no longer than 4ft preferred. If weathered, no testing necessary. If new, testing needed.	Subtitle D solid waste landfill. Accept sludge, industrial non-hazardous waste
Plainville Landfill	Granger Lane Plainville, CT 06062	John Sullivan - Business Development Manager (Loureiro)	jtsullivan@loureiro.com	John: 860-410-3070	Disposal/Soil Reclamation	Solids	Landfill capping and grading material. Materials must meet the facility-specific Material Acceptability Protocol dated September 28, 2022.	Y	N	N	N	N	N	Not Accepted	
Red Technologies, LLC	Soil Yard: 232 Airline Avenue Portland, CT 06980 Haz Yard: 203 Pickering St. Portland	Christopher Windnagle - Compliance Manager contact for permit related items and hazardous and drummed waste disposal Mark Barnes - VP Sales Contact for disposal of soil and bidding	cwindnagle@redtechllc.com mbarnes@redtechllc.com	Intermodal Transfer Facility: 860-342-1022 Corporate Office: 860-218-2428 Chris (O): 860-894-4606	Transfer	Solids	Temporary storage and transfer (for disposal) of contaminated soil/other wastes, including RCRA Hazardous and TSCA Wastes	Y	Y	N	Y	Y	Y	Accepted after profiling	
Republic Services Conestoga Landfill	420 Quarry Road Morgantown, PA 19543	James Kuhn - Environmental Specialist Eugene Lunney - Special Waste Executive	kuhnj@repsrv.com elunney@republicservices.com	Facility: 610-273-6566 James (M): 717-246-4640 Eugene (O): 717-560-1379 Eugene (M): 617-438-1287	Disposal	Solids	MSW, C&D debris, SPECIAL MIXED, ALL NON HAZ residual waste, contaminated soil, asbestos	Y	Y	Y	N	N	Y	Accepted: 6-ft lengths preferred, 8-ft possible. If weathered, no testing necessary. If new, need to be tested.	** Please note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Conestoga Landfill as a disposal option. If PADEP provides no response within 15 days, then considered approve.
Rockwood Farms (Operated by Lighthouse Environmental Management)	355 Granby Road Granville, MA 01034	Kevin Francis Gervais - Operations Manager (Lighthouse Environmental)	pradeep@lighthousemgmt.com shannon@lighthousemgmt.com	617-699-5245	Disposal/Soil Reclamation	Fill Soil	Non-haz fill soil with acceptance criteria based on MassDEP Similar Soil Provision Guidance (SSPG) (WSC#13-500), concentrations RCS-1 or lower.	N	N	N	N	N	N	Not Accepted	PFAS sampling required if suspected as a chemical of concern.
Soil Safe Owned by GFL Environmental	378 Route 130 , Logan Township, NJ 08085	Jim Grant - VP Sales Bill Booth - Facility Manager	jim.grant@gflenv.com bbooth@gflenv.com	Scale House: 856-467-8030 Jim (O): 410-872-3990 ext.: 30313 Bill (M): 516-972-3993	Recycling	Solids	Non-haz , soils contaminated with petroleum, low level metals, PAHs, some industrial waste solids.	Y	N	N	N	N	N	Not Accepted	Class B recycling facility. Approval number required prior to shipping.
Stablex, Canada, Inc. (US Ecology company)	760 Industrial Blvd. Blainville, Quebec J7C 3V4	Pierre-Olivier Gagne - Technical Advisor	pierreolivier.gagne@stablex.com	Facility: 450-430-9230 Pierre: ext. 4744	Treatment and Disposal	Liquid and Solid	Inorganic waste, contaminated soil, hazardous wastes, industrial wastes.	Y	Y	Y	N	Y	Y	Accepted if inorganic contaminates	No organically contaminated waste. International permits can be required for transport of contaminated soil. Limitations in regards to VOCs . Only NON free flowing mercury containing devices accepted. Universal waste has to be hazardous for acceptance in Canada

CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF. Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
Tradebe Treatment and Recylcling of Bridgeport LLC.	50 Cross Street Bridgeport, CT 06610	Eric Congdon - Director of Sales, Northeast Tony Boiano - Director of Operations Amy Bassilakis - Regional Env. Compliance Manager Joseph Altieri - Plant Manager	eric.congdon@tradebe.com tony.boiano@tradebo.com amy.bassilakis@tradebe.com joeseph.altieri@tradebe.com	General: 800-404-4408 Eric Congdon (M): 203-631-0343 Amy Bassilakis (M): 203-464-6022	TSDF	Liquids, Non-Haz Solids are solidified and sent off-site	Certain RCRA and CRW wastes; Oil, hazardous waste fuels, hazardous and non-hazardous wastewater.	Y	Y	Y	N*	N*	Y	Yes	RCRA Permit Issued in 2019 *Items 4 and 5 transferred through the facility, not treated on-site. Small containers accepted (drums, totes, etc.).
Tradebe Treatment & Recycling Northeast, LLC	135 Gracey Avenue Meriden, CT 06451	Eric Congdon - Environ./Operations Director Amy Bassilakis - Regional Env. Compliance Manager Justin Deacon - Plant Manager	eric.congdon@tradebe.com tony.boiano@tradebo.com amy.bassilakis@tradebe.com justin.deacon@tradebe.com	General: 888-276-0887 Eric Congdon (M): 203-631-0343 Amy Bassilakis (M): 203-464-6022	TSDF	Liquids, Solids Transferred Off-Site	RCRA, CRW wastewater, oil, hazardous waste fuels, hazardous and non-hazardous wastewater.	N	N	N	N*	N*	N*	Not Accepted	*Items 4, 5, and 6 transferred through the facility, not treated on-site.
Triumvirate	263 Howard Street Lowell, MA 01852	John Menzigian - Regulatory Compliance Manager	jmenzigian@triumvirate.com	Facility: 978-453-7772	TSDF	Liquids and Solids	RCRA hazardous wastes; TSCA wastes.	Y	N	N	Y	Y	Y	Yes	TSDF; No C&D, hazardous debris accepted.
Tunnel Hill Reclamation	8822 Tunnell Hill Road New Lexington, Ohio 43764	Josh Rennicker - Operations Manager	jrennicker@win-waste.com	Facility: 740-342-1180 Josh (C): 330-432-3382	Disposal	Solids	MSW, non-hazardous waste, contaminated soil.	Y	Y	Y	N	N	N	Not Accepted	Subtitle D Landfill.
Turnkey Landfill (Waste Management of NH)	176 Rochester Neck Road PO Box 7065 Rochester NH, 03839	Joe Iannuzzi - Senior District Manager Ellen Bellio - Approval Manager	jiannuz2@wm.com	Tech Service Center: 800-963-4776 Joe (M): 978-730-9907 Ellen (O): 603-330-2170 Ellen (M): 603-833-3073	Disposal	Solids	MSW, C&D, asbestos, PCB remediation waste < 50 ppm, virgin petroleum contaminated soils, non-hazardous solid wastes.	Y	Y	Y	N	N	Y*	**Accepted in special case by case manner. no longer than 4ft, if larger, additional charge. If weathered, no testing.	*Asbestos material required profiling **For railroad ties, call Shawn Erwin: 716-286-0230.
US Ecology (FKA Environmental Quality Detroit Inc.)	1923 Frederick Street Detroit, MI 48211	John Barta - General Manager	john.barta@usecology.com	Facility: 313- 347-1300 John (O): 313-347-1330 John (M): 586-229-0253	TSDF	Solid and Liquids	TSDF; RCRA hazardous and non-hazardous wastewater.	Y	Y	Y	Y	Y	Y*	Not Accepted	TSDF; *Case-by-case for asbestos level acceptance.
US Ecology Wayne Disposal Facility Landfill	49350 North I-94 Service Drive Belleville, MI 48111	Sylwia Scott - Area Environmental Manager	sylwia.scott@usecology.com	Corporate Office: 800-592-5489 Sylwia (O): 734-699-6294 (M): 734-576-0423	TSDF	Liquid and Solid	RCRA Hazardous Wastes; TSCA Wastes.	Y	Y	Y	Y	Y	Y	Accepted; <or = 3x3x3 preferred	TSDF US Ecology is now shareholder that has been acquired by Republic
Waste Management: Middleborough Sanitary Landfill	207 Plympton Street Middleborough, MA 02346	Patrick Milmoe - Industrial Account Manager Dave Pope - District Manager	PMilmoe@wm.com Dpope@wm.com	Patrick (M): 508-962-3671 Dave (M): 508-958-1301 Dave (O): 508-823-6570	Disposal	Solids	Non-hazardous soil, RCRA Subtitle D landfill, that meets MassDEP COMM-97-001 acceptance criteria for lined landfills.	N	N	N	N	N	N	Not Accepted	Limited acceptance rate of 320-tons per day, MassDEP COMM-97-001 Lined Landfill.
Waste Management: RCI Fitchburg Landfill	101 Fitchburg Road, Westminster, MA 01473	Frank Sepiol - Environmental Protection Specialist	fsepiol@wm.com	Facility: 978-874-0037 Frank (M): 413-519-3916	Disposal	Solids	MSW, non-hazardous waste, C&D, contaminated soil for use as cover material under MassDEP COMM-97-001 policy, BUD permit required for sediment pulled from CT water bodies.	Y	N	N	N	N	N	Not Accepted	
Winchendon Landfill (W.L. French Excavating Corp.)	580 River Street Winchendon, MA	Jarrett Everton - Director of Environmental Services	jeverton@wlfrench.com	General: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-haz, Solids (soils, catch basin cleanings, street sweepings and dewatered dredge materials) that meet MassDEP COMM-97-001 acceptance criteria for unlined landfills.	Y	N	N	N	N	N	Not Accepted	MassDEP COMM-97-001 Unlined Landfill

Additional Waste Key:

1: Sediments Generated in CT
2: Treated Lumber (Creosote, Penta, CCA, etc.)
3: Construction Bulk Waste
4: Mercury-Containing Devices
5: Universal Waste
6: Asbestos

ITEM #0728014A – 3/4" CRUSHED STONE

Description: The work under this item shall consist of furnishing and placing a course of 3/4"crushed stone for stormwater ponds in the locations and to the limits and for the depths shown on the plans, or as directed by the Engineer.

Materials: Crushed 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. Crushed stone shall consist of sound, tough, durable stone, reasonably free from soft, thin, elongated, laminated, friable, micaceous or disintegrated pieces, mud, dirt or other deleterious material. Crushed stone shall meet the gradation of AASHTO No. 5 coarse aggregate.

Construction Methods: Grade the surface on which the crushed stone is to be placed to be reasonably true prior to placing the crushed stone. Install geotextile prior to placing the crushed stone where shown on the plans. The 3/4" crushed stone shall be placed and spread by any suitable means to the specified depth and limits shown on the plans.

Method of Measurement: This work will be measured for payment by the number of cubic yards of 3/4” Crushed Stone measured in place and accepted.

Basis of Payment: This work will be paid for at the Contract unit price per cubic yard for “3/4” Crushed Stone,” complete in place, which price shall include furnishing and placing the crushed stone on a prepared surface, and all tools, materials and labor necessary to complete the work.

Excavation as required will be paid under the item “Earth Excavation.” Geotextile where shown on the plans will be paid under the applicable geotextile item.

Pay Item	Pay Unit
3/4" Crushed Stone	c.y.

ITEM #0728030A – NO. 3 CRUSHED STONE

Description: The work under this item shall consist of furnishing and placing crushed stone for maintenance accessways and aprons in the locations and to the limits and for the depths shown on the plans, or as directed by the Engineer.

Materials: Crushed 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. Crushed stone shall consist of sound, tough, durable stone, reasonably free from soft, thin, elongated, laminated, friable, micaceous or disintegrated pieces, mud, dirt or other deleterious material. Crushed stone shall meet the gradation requirements of Table M.01.02-2 for No. 3 coarse aggregate.

Construction Methods: Clear the area on which the crushed stone is to be placed of all vegetation and excavate to a maximum depth of 4 inches. Grade the subgrade surface to be reasonably true prior to placing the crushed stone. The No. 3 crushed stone shall be placed and spread by any suitable means to the specified depth and limits shown on the plans.

Method of Measurement: This work will be measured for payment by the number of cubic feet of No. 3 Crushed Stone measured in place and accepted.

Basis of Payment: This work will be paid for at the Contract unit price per cubic foot for "No. 3 Crushed Stone," complete in place, which price shall include furnishing and placing the crushed stone, disposal of surplus materials, and all tools, materials and labor necessary to complete the work.

Clearing and grubbing as required prior to placement of the crushed stone will be paid under the item "Clearing and Grubbing." Excavation as required will be paid under the item "Earth Excavation."

Pay Item	Pay Unit
No. 3 Crushed Stone	c.f.

ITEM #0751860A – 4” CLEANOUT FOR UNDERDRAIN
ITEM #0751861A – 6” CLEANOUT FOR UNDERDRAIN

Description: The work under this item shall consist of furnishing and installing cleanouts for underdrain of the specified size in conformity with the dimensions and details and in the locations shown on the plans, and in accordance with these specifications.

The components of the cleanout include the riser pipe, riser pipe fittings including the connection to the adjacent underdrain, riser pipe cap, concrete collar, frame and cover assembly, and aggregate around the riser pipe and fittings.

Materials: The materials for this work shall meet the following requirements:

Riser Pipe: Riser pipe shall meet the requirements of M.08.01. The riser pipe shall be solid pipe of the same material and diameter as the underdrain to which it is connected.

Riser Pipe Fittings and Cap: Couplings, wyes, elbows, bends, tees, and cap for riser pipe shall meet the requirements of M.08.01 and shall be of a size and type compatible with the connected riser pipe.

Frame and Cover Assembly: Frame and cover assembly shall be *1573 10” Tall Cleanout/Monument Box Set UD* by EJ Group, Inc., or approved equal of comparable product specifications. The cover shall be cast with “UD,” “Cleanout,” “Underdrain,” or similar text. Frame and cover assembly shall be from a single manufacturer and rated for heavy-duty applications or traffic loads. Product data with product installation instructions, as applicable, shall be submitted for approval.

Concrete Collar: Concrete for concrete collar shall be Portland cement concrete, minimum compressive strength of 4,400 psi, meeting the requirements of M.03. Reinforcing steel for concrete collar shall meet the requirements of M.06.01. Shop drawing and concrete mix design shall be submitted for approval.

Aggregate: The aggregate for backfilling the riser pipe trench shall meet the requirements of M.08.03 for No. 8 (3/8 inch) stone.

Joint Sealants: The materials for sealing and coupling of joints shall meet the requirements of M.08.01 for the type of pipe used.

Mortar: Mortar shall meet the requirements of M.11.04.

Tack Coat: Tack Coat shall meet the requirements of M.04.01-5.

Construction Methods: Trench excavation shall be in accordance with the requirements of 2.86.03 and to the depth of the adjacent underdrain trench. Riser pipes shall be constructed in accordance with the details and dimensions shown on the plans and in conformance with the pipe manufacturer’s installation requirements. The riser pipe trench shall be backfilled with aggregate and compacted in 6-inch maximum lifts.

The riser pipe shall be supported with a concrete collar, fitted with a riser pipe cap, and covered with a frame and cover assembly as shown on the plans and details.

The height of the installed riser pipe shall be adjusted as required such that there is no conflict between the installed cap and fully-seated frame and cover. The riser pipe cap shall be removable for inspection and cleanout purposes.

The concrete collar shall be installed on the compacted free-draining material course, consistent with the full-depth typical section.

The frame and cover assembly shall be installed on the concrete collar and centered over the riser pipe. The frame shall be set in a full mortar bed, or affixed to the collar by other means in conformance with the manufacturer's installation instructions or as approved by the Engineer. The top surface of the concrete collar shall be cleaned and shall receive a full tack coat application prior to the placement of hot mix asphalt (HMA) pavement over the collar. The final frame and cover elevation shall match the final pavement grade or be recessed no more than 1/4" below the final pavement grade.

All work shall be performed in a workmanlike manner satisfactory to the Engineer.

Method of Measurement: This work will be measured for payment by the number of Cleanouts for Underdrain of the size specified, installed and accepted. Trench excavation will not be measured for payment. Rock in drainage trench excavation will be measured for payment in accordance with 2.86.04.

Basis of Payment: This work will be paid for at the Contract unit price each for "(Size) Cleanout for Underdrain" which price shall include riser pipe, riser pipe fittings, riser pipe cap, frame and cover assembly, concrete collar, mortar, tack coat, trench excavation, aggregate backfill, disposal of surplus materials, and all tools, materials and labor necessary to complete the work.

Pay Item	**Pay Unit**
4" Cleanout for Underdrain	EA.
6" Cleanout for Underdrain	EA.

ITEM #0751862A – 8” CLEANOUT FOR UNDERDRAIN

Description: The work under this item shall consist of furnishing and installing cleanouts for underdrain of the specified size in the locations shown on the plans and in accordance with these specifications.

The components of the cleanout include a vertical riser pipe, riser pipe fittings including the connection to the adjacent underdrain, riser pipe cap, and aggregate around the riser pipe and fittings.

Materials: The materials for this work shall meet the following requirements:

Riser Pipe: Riser pipe shall meet the requirements of M.08.01. The riser pipe shall be solid pipe of the same material and diameter as the underdrain to which it is connected.

Riser Pipe Fittings and Cap: Couplings, wyes, elbows, bends, tees, and cap for riser pipe shall meet the requirements of M.08.01 and shall be of a size and type compatible with the connected riser pipe.

Aggregate: The aggregate for backfilling the riser pipe trench shall meet the requirements of M.08.03 for No. 8 (3/8 inch) stone.

Joint Sealants: The materials for sealing and coupling of joints shall meet the requirements of M.08.01 for the type of pipe used.

Construction Methods: Trench excavation shall be in accordance with the requirements of 2.86.03 and to the depth of the adjacent underdrain trench. The horizontal limits of trench excavation shall be a minimum of 12 inches on all sides of the installed riser pipe. The vertical limit of trench excavation shall match the adjacent underdrain trench. The riser pipe shall be installed within a run of underdrain or at the upstream end of an underdrain as shown on the plans or as directed by the Engineer. The riser pipe shall be connected to the underdrain with an appropriate fitting, installed vertically to above finish grade, and assembled in conformance with the pipe manufacturer’s installation requirements. The riser pipe trench shall be backfilled to subgrade with aggregate and compacted in 6-inch maximum lifts.

The top of the installed riser pipe shall be 18 inches above finish grade or as directed by the Engineer. A riser pipe cap shall be installed over the riser pipe opening and secured with stainless steel set screws, stainless steel hose clamp, or another means acceptable to the Engineer that allows for removal for inspection and cleanout.

All work shall be performed in a workmanlike manner satisfactory to the Engineer.

Method of Measurement: This work will be measured for payment by the number of Cleanouts for Underdrain of the size specified, installed and accepted. Trench excavation will not be measured for payment. Rock in drainage trench excavation will be measured for payment in accordance with 2.86.04.

Basis of Payment: This work will be paid for at the Contract unit price each for "(Size) Cleanout for Underdrain" which price shall include riser pipe, riser pipe fittings, riser pipe cap and associated hardware, trench excavation, aggregate backfill, disposal of surplus materials, and all tools, materials and labor necessary to complete the work.

Pay Item	**Pay Unit**
8" Cleanout for Underdrain	EA.

ITEM #0755031A – GEOMEMBRANE

This section 7.55 of the Stand Specifications is hereby supplemented as follows:

Article 7.55.01 – Description

Replace with the following:

This item shall consist of furnishing and installing a geomembrane liner in accordance with the contract documents, manufacturer's recommendations, and as directed by the Engineer. The geomembrane shall be used as an impermeable barrier to control fluid migration in designated areas.

Article 7.55.02 – Materials

Replace with the following:

1. Geomembrane:
   a. The geomembrane shall be a High-Density Polyethylene (HDPE) liner, manufactured from virgin polyethylene resins.
   b. Minimum thickness: 60 mil (1.5 mm), unless otherwise specified in the plans.
   c. The geomembrane shall conform to the requirements of ASTM D5199 and the following physical properties:

Property	Test Method	Minimum Value
Thickness (nominal)	ASTM D5199	60 mil (1.5 mm)
Tensile Strength (Yield)	ASTM D6693	63 lb/in (11 N/mm)
Elongation at Break	ASTM D6693	700%
Puncture Resistance	ASTM D4833	140 lbs (623 N)
Carbon Black Content	ASTM D4218	2.0 - 3.0%
Environmental Stress Crack Resistance	ASTM D5397	> 500 hours

2. Geomembrane Seaming Materials:
   a. All seaming materials shall be compatible with the geomembrane and approved by the manufacturer.
   b. Fusion or extrusion welding equipment shall be used for field seams.

Article 7.55.03 – Construction Methods

Replace with the following:

The geomembrane shall be installed at the locations and to the dimensions shown on the plans or as directed by the Engineer. Geotextile shall be installed as recommended by the manufacturer, for the specific use or purpose intended, or as otherwise approved by the Engineer.

1. Subgrade Preparation:
    a. The surface upon which the geomembrane is to be placed shall be smooth, free of sharp objects, protrusions, debris, and vegetation.
    b. The subgrade shall be compacted and graded to meet the lines and grades shown on the plans and approved by the Engineer.
2. Installation:
    a. Geomembrane shall be deployed under the supervision of a qualified installer with a minimum of 5 years of experience.
    b. Panels shall be unrolled and aligned to minimize seams and to accommodate anchoring requirements.
    c. All field seams shall be joined using thermal fusion welding, unless otherwise specified.
    d. Seams shall be continuously tested using non-destructive methods such as air pressure testing (dual track seams) or vacuum box testing.
3. Anchor Trenches:
    a. Anchor trenches shall be excavated and constructed in accordance with the contract plans. The geomembrane shall be secured in the trenches and backfilled with suitable material compacted to the satisfaction of the Engineer.
4. Repairs:
    a. Prior to covering, the geotextile shall be inspected to ensure that it has not been damaged (i.e., holes, tears, rips) during installation.
    b. Damaged areas shall be repaired using patches of the same material, welded to the base liner and tested.
    c. All repairs shall be approved by the Engineer prior to covering.
    d. Quality Assurance / Quality Control:
        a. The Contractor shall provide a CQA (Construction Quality Assurance) Plan for the Engineer’s review prior to installation.
        b. Geomembrane rolls shall be labeled with production date, roll number, thickness, length, width and manufacturer.
        c. Manufacturer’s certificates of compliance and test results shall be submitted before installation.

Article 7.55.04 – Method of Measurement

Replace with the following:

This work will be measured for payment by the actual number of square feet of the geomembrane installed of the type indicated on the plans or authorized by the Engineer, complete in place, and accepted. Geomembrane specifically included in the payment of another item will not be measured for payment under this item. No additional measurement will be made for necessary lap material.

Article 7.55.05 – Basis of Payment

Replace with the following:

This work will be paid for at the Contract unit price per square foot of Geomembrane complete in place, which price shall include the CQA Plan, geomembrane, geomembrane seaming materials, anchor trenches, repairs, and all materials, labor, tools, and equipment incidental and necessary for installation and removal where necessary.

Pay Item	**Pay Unit**
Geomembrane	s.f.

ITEM #0913984A – TEMPORARY PROTECTIVE FENCE

Description: Work under this item shall consist of furnishing and installing temporary 8' high chain link fence, including gates as required, at the locations shown on the Plans or as ordered by the Engineer. Also included in this item is the resetting, as indicated or as directed by the Engineer, of the temporary chain link fence and gates, and the final removal and disposal following the completion of construction.

The temporary chain link fence shall be installed around the perimeter of the site, and staging areas, as shown on the Plans or as ordered by the Engineer. It shall be used to separate the Contractor's work areas from that of the surrounding traveling public.

Materials: The material for the temporary chain link fence and gates, including all hardware and appurtenances, shall conform to the requirements of Article 9.13.02, except that polyvinyl chloride-coated fabric, posts and/or hardware will not be allowed. Temporary gates shall be of the same type of materials used for the adjacent temporary chain link fence. The materials shall include all necessary hardware for swing-type operation.

Chain link fence panels with weighted base stands may be used in place of in-ground installations where placed on pavements and as approved by the Engineer. Panels must be physically connected to provide a continuous fence line.

The materials used shall be new or in good condition, if previously used. Previously used materials require the approval of the Engineer prior to installation.

Concrete footings, where required, shall be Portland cement concrete, minimum compressive strength of 3,300 psi, as defined in M.03.02.

Construction Methods: Temporary chain link fence and gates with in-ground posts shall be installed in accordance with the Plans and Section 9.13.03 of the specifications.

Fence panels provided with base stands shall be adequately weighted to prevent overturning or shifting of the fence.

The Contractor shall maintain the fence in good condition during the construction phase and shall immediately repair any damaged sections of fence to the satisfaction of the Engineer. Any temporary chain link fence and/or gates damaged by the Contractor, either during normal construction operations or the resetting process, shall be replaced at the Contractor's expense and at no cost to the State.

The Contractor shall remove the temporary fencing, including concrete footings if used, and weighted base stands when no longer required for the work, as directed by the Engineer. The Contractor shall backfill all holes with compacted granular material to the satisfaction of the Engineer.

Method of Measurement: "Temporary Protective Fence" will be measured for payment by the number of linear feet of temporary fence furnished, installed and accepted, measured from outside to outside of terminal posts or panel end posts, as shown on the Plans or as ordered by the Engineer.

Temporary chain link gates, within the line of the temporary chain link fence will be considered part of the temporary chain link fence and measured for payment by the linear foot as noted above.

The resetting of the temporary protective fence for the Contractor to complete the work shown on the plans or accommodate project needs, or the installation of additional temporary protective fence or gates for the Contractor's convenience, will not be measured for payment.

Basis of Payment: This work will be paid for at the Contract unit price per linear foot for "Temporary Protective Fence," which price shall include weighted base stands, excavation, backfill, fabrication, concrete, disposal of surplus material, resetting, final removal and all materials, equipment, tools, and labor incidental to installing, maintaining, resetting where required and removal.

Pay Item	**Pay Unit**
Temporary Protective Fence	l.f.

ITEM #0914001A – METAL HANDRAIL

Section 9.14 of the Standard Specifications is hereby supplemented as follows:

Article 9.14.01 – Description

Replace with the following:

This item shall consist of designing, fabricating, furnishing, and installing handrailing assemblies for the proposed concrete sidewalk ramps, as shown on the plans.

Working drawings and design calculations for the handrailing assemblies, including surface-mounted attachment construction, shall be prepared and submitted for review in accordance with Article 1.20-1.05.02-5.

Article 9.14.02 – Materials

Replace with the following:

All pipe for railing and posts shall be standard weight 1½" Welded and Seamless Steel pipe meeting the requirements of ASTM A53, Type E or S, Grade A, Schedule 40.

Steel for baseplates and fasteners shall be in conformance with M.06.02.

All steel for railing, posts, and baseplates shall be hot-dip galvanized after fabrication in conformance with M.06.03.

Grout as required shall be in conformance with M.03.05.

Structural Performance Requirements: Railing assemblies including surface-mounted attachment construction shall withstand the effects of gravity loads and the following loads and stresses:

a. Uniform load of 50 lbf/ft applied in any direction.
b. Concentrated load of 200 lbf applied in any direction.

Uniform and concentrated loads need not be assumed to act concurrently.

Submit manufacturer's product data for adhesive anchors for review in conformance with Article 1.20-1.05.02-8.

Article 9.14.03 – Construction Methods

Replace with the following:

The rail elements shall be fabricated and installed to produce a smooth, continuous rail as shown on the plans.

Railing assemblies shall be surface-mounted to the proposed concrete sidewalk ramps using base plates fastened with adhesive anchors.

All rail elements and base plates shall be welded to the posts. All joints shall be finished with a smooth surface. No rough or sharp projections will be permitted.

The installed railing assemblies shall be tightly fastened and plumb.

Any damage to the galvanized surfaces shall be repaired to the satisfaction of the Engineer.

All railing and base plate surfaces shall be cleaned to the satisfaction of the Engineer prior to acceptance.

Article 9.14.05 – Basis of Payment

Replace with the following:

This work will be paid for at the Contract unit price per linear foot for "Metal Handrail," complete in place and accepted, which price shall include all design, fabrication, installation, and all materials, equipment, tools and labor incidental thereto.

ITEM #0921006A – CONCRETE SIDEWALK RAMP – 8” THICK

Section 9.21 of the Standard Specifications is hereby supplemented as follows:

Article 9.21.01 – Description

Add the following:

This item shall also consist of 8” thick concrete sidewalk ramps constructed on a granular fill base course in the locations and to the dimensions and details shown on the plans or as directed by the Engineer.

Article 9.21.02 – Materials

Add the following:

Welded Steel Wire Fabric: Shall meet the requirements of M.06.01-3 for Wire and Welded Steel Wire Fabric; size 4 x 4 W6.5 x W6.5 minimum.

Article 9.21.05 – Basis of Payment

Replace the first sentence with the following:

Construction of concrete sidewalk ramp will be paid for at the Contract unit price per square foot for "Concrete Sidewalk Ramp – 8” Thick" complete and accepted in place, which price shall include all excavation as specified above, welded steel wire fabric, backfill, disposal of surplus material, curb removal and any monolithic or separately cast sidewalk curb when required for the sidewalk ramp as shown on the plans, granular fill base, curing compound, equipment, tools, materials and labor incidental thereto.

Pay Item	Pay Unit
Concrete Sidewalk Ramp – 8” Thick	s.f.

ITEM #0921048A – DETECTABLE WARNING SURFACE

Section 9.21 *is supplemented as follows:*

Article 9.21.01 – Description:

Add the following:

This item shall also include detectable warning surface installed with permanent construction and detectable warning surface installed on bituminous concrete sidewalks for temporary ramp applications during construction.

Article 9.21.02 – Materials:

Add the following:

Detectable warning surfaces that are installed on bituminous concrete sidewalks for temporary ramp applications shall be adhesive mat ADA-compliant truncated dome detectable warning surface that is manufactured for installation on asphalt surface and shall be chosen from a manufacturer included in CTDOT's Qualified Product List under *Detectable Warning (ADA Truncated Dome Detectable Warning Systems)*. The color of the detectable warning surface for temporary ramp applications shall be a high contrast color to the bituminous concrete sidewalk surface to be approved by the Engineer.

Article 9.21.03 – Construction Methods:

Add the following:

10. Detectable Warning Surfaces for Temporary Ramp Applications: The detectable warning surfaces that are installed on bituminous concrete sidewalk for temporary ramp applications shall be installed in accordance with the manufacturer's installation instructions, or as directed by the Engineer.

Article 9.21.04 – Method of Measurement:

Delete Subarticle 9.21.04-4 and replace with the following:

4. Detectable Warning Surface: For new construction (cast in place and temporary installation), the detectable warning surface will be measured for payment by the actual number of square feet of detectable warning surface installed and accepted.

ITEM #0944102A – PERMEABLE SOIL FOR VEGETATIVE CHANNEL

Description: This item shall consist of furnishing and installing permeable soil in the bottom section of the bioretention basin to the dimensions and details shown on the plans or as directed by the Engineer.

Materials: Permeable soil shall meet the following characteristics:

- Organic Content: 3 to 10% by volume
- Soil pH: between 6 and 7
- Cation Exchange Capacity (sodium saturation): Minimum 10 mEq/100 mL at pH of 7.0
- Particle Size Distribution:

Particle Type	Particle Size (in)	Percent by Dry Weight
Very Coarse Sand/Gravel	0.079 – 0.187	5% Maximum
Sand	0.017 – 0.079	80–90%
Silt	0.003 – 0.017	15% Maximum
Clay	<0.003	5% Maximum

The permeable soil media shall be uniform, free of stones, stumps, roots, or similar materials larger than 0.187 inches. No compost shall be used in the planting mix unless specified by the Engineer. All soil amendments must be approved by the Engineer.

Construction Methods:
The subgrade shall be ripped or scarified to the required depth for placement of the permeable soil. Avoid over-compacting. Allow permeable soil to settle naturally, lightly water. Vehicular traffic and construction equipment shall not drive on, move onto, or disturb the permeable soil once placed. Rake permeable soil as needed to level out.

Method of Measurement: This work will be measured by the actual number of cubic yards of completed and accepted permeable soil.

Basis of Payment: This work will be paid for at the Contract unit price per cubic yard for "Permeable Soil for Vegetative Channel" complete in place, which price shall include surface preparation and all equipment, tools, labor, and materials incidental thereto.

Pay Item	**Pay Unit**
Permeable Soil for Vegetative Channel	c.y.

ITEM #0945005A – WILDFLOWER ESTABLISHMENT

Description: The work included in this item shall consist of providing an accepted uniform stand of established wildflower seed mixture by furnishing and placing seed and cover crop as shown on the plans, permits, or as directed by the Engineer within the wetland mitigation Sites(s) or other areas when required.

Materials: All wildflower seed mixture sources shall be obtained within the New England States, New York, Pennsylvania, New Jersey, Delaware, Maryland or Virginia to preserve and enhance the diversity of native wildflower grass and plant species.

Four qualified wildflower seed mixtures are detailed below.

1. **New England Wildflower Seed Mix,** New England Wetland Plants, Inc. 800 Main Street Amherst, MA 01002, or equal. Rate shall be 23 lbs. PLS per acre (1 lb. PLS per 1,900 sq. ft.)

2. **Showy Northeast Native Wildflower Mix,** Ernst Conservation Seeds Inc. 8884 Mercer Pike, Meadville, PA, 16335, or equal. Rate shall be 10 lbs. PLS per acre (1 lb. PLS per 4,356 sq. ft.)

3. **Vermont Native Wildflower & Grass Mix**, Vermont Wetland Plant Supply, LLC, P.O. Box 153, Orwell, VT, 05760, or equal. Rate shall be 18 lbs. PLS per acre (1 lb. PLS per 1600 sq. ft.)

4. **Virginia Pollinator Smart Open Area Mixture,** Chesapeake Valley Seed, 8869 Greenwood Place, Suite C, Savage, MD 20763, or equal. Rate shall be 20 lbs. PLS per acre (1 lb. PLS per 2,420 sq. ft.)

The Contractor must apply 30 lbs. of cover crop per acre in conjunction with the qualified wildflower seed mixture selected. The 30 lbs. of cover crop shall consist of grain oats when seeding between March 15 to June 30 or grain rye when seeding between August 15 to October 31.

Fertilizer, if required, shall meet the requirements of Article M.13.03.
Mulch shall meet the requirements of Article M.13.05.
Erosion control matting shall be bio-degradable and meet the requirements of Article M.13.09.

The Contractor shall submit the selected qualified wildflower seed mixture or equal including cover crop seed mixture information to the Engineer for review and acceptance in advance of purchase and prior to application.

The Materials Certificate for all seed mixtures shall have a statement that certifies that the seed mixture does not include any invasive species pursuant to Connecticut General Statutes Sec. 22a-381d or any State Threatened or State Endangered species pursuant to Connecticut General

Statutes Sec. 26-303. The seed tags from the bags are to be removed by the Engineer upon delivery and attached to the Materials Certificate. Seeding shall not occur if these requirements are not met.

All approved seed mixtures shall be obtained in sufficient quantities to meet the pure live seed (PLS) application rates as determined by the seed analysis of the mixture.

Construction Methods: Construction methods shall be those established as agronomically acceptable and feasible and accepted by the Engineer.

Preparation of Seedbed Areas:

a. Level Areas, Median Areas, Interchanges and Lawns: These areas shall be made friable and receptive for seeding by discing or by other accepted methods to the satisfaction of the Engineer. The final prepared surface which has been seeded shall meet the lines and grades for such surface areas as shown on the plans, permits or as directed by the Engineer. In no event, will seeding be permitted on hard or crusted soil surface.

b. Slope and Embankment Areas: These areas shall be made friable and receptive to seeding by accepted methods which will not disrupt the line and grade of the slope surface. In no event, will seeding be permitted on hard or crusted soil surface.

All areas to be seeded shall be reasonably free from weeds taller than 3 inches. Level Areas, Median Areas, Interchanges and Lawns: Seeding shall not be permitted until substantial weed growth is removed and accepted by the Engineer. Slope and Embankment Areas: Removal of weed growth shall be those methods which do not rut or scar the slope surface or cause excessive damage of the slope line or grade as accepted by the Engineer.

Wildflower seeding for wetland mitigation Site(s): Seeding shall occur during the fall season immediately following construction of the wetland mitigation Site(s). Seeding for wetland mitigation Site(s) must occur from August 15 to October 31.

For non-wetland mitigation Site(s), seeding shall occur during the dates specified in Article 9.50.03-2.

If seed is purchased in bulk rather than by PLS, the rate of application must be adjusted to meet the required PLS seeding rate. This seeding rate shall be increased by the appropriate percentage as determined by the following formula based off the information provided on the seed tags at delivery.

(Germination Percentage X Purity Percentage)/ 100 = Percentage PLS

The Engineer will verify that the seed is applied at a rate that will allow for 100 percent PLS.

Mowing will not be allowed within areas that are seeded with wildflower seed mix, unless authorized by the Engineer.

Method of Measurement: The work will be measured for payment by the number of pounds of each kind of wildflower seed planted, established, and accepted.

Basis of Payment: This work will be paid for at the Contract unit price per pound for "Wildflower Establishment," which price shall include all materials, maintenance, equipment, tools, labor, and work incidental thereto. Partial payment of up to 50% may be made for work completed, but not accepted. Full payment shall not be made until the established wildflower area has been accepted by the Engineer.

Pay Item	**Pay Unit**
Wildflower Establishment	lb.

ITEM #0950040A – CONSERVATION SEEDING FOR SLOPES

Description: The work included in this item shall consist of providing an accepted uniform stand of established conservation seed mixture by furnishing and placing seed and cover crop as shown on the plans, permits, or as directed by the Engineer within the wetland mitigation Sites(s) or other areas when required.

Materials: All conservation seed mixture sources shall be obtained within the New England States, New York, Pennsylvania, New Jersey, Delaware, Virginia or Maryland to preserve and enhance the diversity of native conservation grass and plant species.

Four qualified conservation seed mixtures are detailed below:

1. **New England Conservation/Wildlife Mix**, New England Wetland Plants, Inc. 820 West Street Amherst, MA 01002, or equal. Rate shall be 25 lbs. PLS per acre (1 lb. PLS per 1,750 sq. ft.)

2. **Mesic to Dry Native Pollinator Mix,** Ernst Conservation Seeds, Inc. 8884 Mercer Pike, Meadville, PA 16335, or equal. Rate shall be 20 lbs. PLS per acre (1 lb. PLS per 2,178 sq. ft.)

3. **Vermont Conservation and Wildlife**, Vermont Wetland Plant Supply, LLC, P.O. Box 153, Orwell, VT 05760, or equal. Rate shall be 20 lbs. PLS per acre (1 lb. PLS per 2,178 sq. ft.)

4. **Upland Partial Shade to Full Sun Mixture**, Chesapeake Valley Seed, 8869 Greenwood Place, Suite C, Savage, MD 20763, or equal. Rate shall be 25 lbs. PLS per acre (1 lb. PLS per 1,750 sq. ft.)

The Contractor must apply 30 lbs. of cover crop per acre in conjunction with the qualified conservation seed mixture selected. The 30 lbs. of cover crop shall consist of grain oats when seeding between March 15 to June 30 or grain rye when seeding between August 15 to October 31.

Fertilizer, if required, shall meet the requirements of Article M.13.03.
Mulch shall meet the requirements of Article M.13.05.
Erosion control matting shall be bio-degradable and meet the requirements of Article M.13.09.

The Contractor shall submit the selected qualified conservation seed mixture or equal including cover crop seed mixture information to the Engineer for review and acceptance in advance of purchase and prior to application.

The Materials Certificate for all seed mixtures shall have a statement that certifies that the seed mixture does not include any invasive species pursuant to Connecticut General Statutes Sec. 22a-381d or any State Threatened or State Endangered species pursuant to Connecticut General

Statutes Sec. 26-303. The seed tags from the bags are to be removed by the Engineer upon delivery and attached to the Materials Certificate. Seeding shall not occur if these requirements are not met.

All approved seed mixtures shall be obtained in sufficient quantities to meet the pure live seed (PLS) application rates as determined by the seed analysis of the mixture.

Construction Methods: Construction methods shall be those established as agronomically acceptable and feasible and shall be accepted by the Engineer. The methods described in Article 9.50.03 shall be amended as follows:

Preparation of Seedbed Areas:

a. Level Areas, Median Areas, Interchanges and Lawns: These areas shall be made friable and receptive for seeding by discing or by other accepted methods to the satisfaction of the Engineer. The final prepared surface which has been seeded shall meet the lines and grades for such surface areas as shown on the plans, permits or as directed by the Engineer. In no event, will seeding be permitted on hard or crusted soil surface.

b. Slope and Embankment Areas: These areas shall be made friable and receptive to seeding by accepted methods which will not disrupt the line and grade of the slope surface. In no event, will seeding be permitted on hard or crusted soil surface.

All areas to be seeded shall be reasonably free from weeds taller than 3 inches. Level Areas, Median Areas, Interchanges and Lawns: Seeding shall not be permitted until substantial weed growth is removed and accepted by the Engineer. Slope and Embankment Areas: Removal of weed growth shall be those methods which do not rut or scar the slope surface or cause excessive damage of the slope line or grade as accepted by the Engineer.

Conservation seeding for slopes for wetland mitigation Site(s): Seeding shall occur during the fall season immediately following construction of the wetland mitigation Site(s). Seeding for wetland mitigation Site(s) must occur from August 15 to October 31.

For non-wetland mitigation Site(s), seeding shall occur during the dates specified in Article 9.50.03-2.

If seed is purchased in bulk rather than by PLS, the rate of application must be adjusted to meet the required PLS seeding rate. This seeding rate shall be increased by the appropriate percentage as determined by the following formula based off the information provided on the seed tags at delivery.

(Germination Percentage X Purity Percentage)/ 100 = Percentage PLS

The Engineer will verify that the seed is applied at a rate that will allow for 100 percent PLS.

Mowing will not be allowed within areas that are seeded with conservation seed mix, unless authorized by the Engineer.

Method of Measurement: This work will be measured for payment by the number of square yards of surface area of accepted established conservation grasses as specified.

Basis of Payment: This work will be paid for at the Contract unit price per square yard for "Conservation Seeding for Slopes," which price shall include all materials, maintenance, equipment, tools, labor, and work incidental thereto. Partial payment of up to 50% may be made for work completed, but not accepted. Full payment shall not be made until the area has been accepted by the Engineer.

Pay Item	**Pay Unit**
Conservation Seeding for Slopes	s.y.

ITEM #0950043A – WETLAND GRASS ESTABLISHMENT

Description: The work included in this item shall consist of providing an accepted stand of established wetland grasses by furnishing and placing seed as shown on the plans, permits, or as directed by the Engineer within the Wetland Mitigation Area(s) or other areas when required.

Materials: All wetland grass mixture sources shall be locally obtained within the Northeast USA including New England, New York, Pennsylvania, New Jersey, Delaware, or Maryland in order to preserve and enhance the diversity of native wetland grass species.

The placement of fertilizer, mulch or bio-degradable erosion control matting will not be allowed within any wetland area.

All wetland seed mixture sources shall be approved by the Engineer prior to purchase.

Three (3) qualified wetland seed mixtures are as follows:

1. **New England Wet Mix (Wetland Seed Mix)**, New England Wetland Plants, Inc. 820 West Street Amherst, MA 01002, or equal. Rate shall be 1 pound PLS per 2,500 sq. ft.

2. **OBL Wetland Mix,** Ernst Conservation Seeds, Inc. 8884 Mercer Pike, Meadville, PA 16335, or equal. Rate shall be 1 pound PLS per 2,000 sq. ft.

3. **Vermont Wetland Shrub**, Vermont Wetland Plant Supply, LLC, P.O. Box 153, Orwell, VT 05760, or equal. Rate shall be 1 pound PLS per 2,420 sq. ft.

All seed mixtures must be reviewed and approved by the Engineer prior to application. All seed Materials Certificates must have seed mixtures that shall not include any invasive species pursuant to Connecticut General Statute Sec. 22a-381d, or any State Threatened or State Endangered species known pursuant to Connecticut General Statute Sec. 26-303 which would be a violation of the Connecticut Endangered Species Act. The seed tags from the bags are to be removed by the Engineer upon delivery and attached to the Materials Certificate. No seeding shall occur if the requirements are not met.

All approved seed mixtures shall be obtained in sufficient quantities to meet the pure live seed (PLS) application rates as determined by the seed analysis of the mixture.

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

Wetland grass establishment seeding for Wetland Mitigation Site(s): Seeding shall occur during the fall season immediately following construction of the wetland site(s). Fall seeding must occur from August 15th to October 31th.

Wetland grass establishment seeding for areas other than the Wetland Mitigation Site(s), when required: Seeding dates shall adhere to Section 9.50 – Turf Establishment.

Seeding shall be applied to wetland areas that will not be routinely inundated. If seed is purchased in bulk rather than by PLS, the rate of application must be adjusted to meet the required PLS seeding rate. This seeding rate shall be increased by the appropriate percentage based on the information provided on the seed tags at delivery, as determined by the following formula:

(Germination Percentage X Purity Percentage)/100 = Percentage PLS

The Engineer shall verify that the seed is applied at a rate that will allow for 100% PLS.

Method of Measurement: This work will be measured for payment by the number of square feet of surface area of established wetland seed mixture, planted, and accepted as specified or by the number of square feet of surface area of seeding actually covered as specified.

Basis of Payment: This work shall be paid at the Contract unit price per square foot for "Wetland Grass Establishment," which price shall include all materials maintenance, equipment, tools, labor, transportation, operations and all work incidental thereto. Partial payment of up to 50% may be made for work completed, but not accepted. Full payment shall not be made until the area has been accepted by the Engineer.

Pay Item	**Pay Unit**
Wetland Grass Establishment	s.f.

ITEM #0952051A – CONTROL AND REMOVAL OF INVASIVE VEGETATION

Description: This work shall include the development and implementation of an Invasive Vegetation Removal Plan (IVRP) to outline the identification and treatment methods for the control of invasive vegetation, including trees if present, as directed by the Engineer or their authorized delegate. This work will also include the removal and off-Site disposal of invasive vegetation from within the Project limits in accordance with the accepted IVRP.

The list of invasive vegetation to be controlled, removed, and disposed off-Site under this item can be found on the following websites:

- Connecticut Invasive Plant Working Group (CIPWG) Invasive Plants Council (http://cipwg.uconn.edu/invasive_plant_list/)
- US Army Corps of Engineers (ACOE) New England District Compensatory Mitigation Guidance Appendix K (http://www.nae.usace.army.mil/portals/74/docs/regulatory/Mitigation/2016_New_England_Compensatory_Mitigation_Guidance.pdf)

Materials: The herbicide shall be formulated as applicable for target-species foliar treatment or a flush cut/stump treatment. All herbicide applications shall be in accordance with Product label rates and in conjunction with Sections 22a-46 to 22a-66z of the Connecticut General Statutes (CGS).

Flagging tape, if used, shall be fluorescent, 'All-Weather' type, resistant to UV and water damage.

Stakes shall be survey-grade, as specified under Article 9.80.02.

Construction Methods: The Contractor shall be responsible to identify invasive vegetation at all times of the year and to prepare a plan for its control, removal, and off-Site disposal without assistance.

1. IVRP: Prior to any ground disturbance within the Project limits, the Contractor shall submit a proposed IVRP to the Engineer or their authorized delegate for review and comment. The Contractor shall address any comments to the satisfaction of the Engineer and resubmit their revised IVRP for review and acceptance.

The IVRP shall include the following information:

1) Proposed dates for the initial walk through of the invasive vegetated areas to be controlled and removed for off-Site disposal.
2) Schedule identifying specific dates when herbicide treatment or mechanical excavation or removal of invasive species is to occur for the life of the Contract, including the 1-year warranty period that begins at Substantial Completion. The treatment schedule shall coincide with the Contractor's schedule.
3) Plan sheets identifying the species of invasive vegetation and trees within the Project limits showing the total square yards proposed to be controlled and removed for off-Site disposal. For each species of invasive vegetation present on-Site, the following shall be described:
   a. Types and concentrations of any herbicides to be used to control the identified species

for the life of the Contract, including any adjuvants, SDS sheets, types of tools, equipment, or machinery to be used.

b. Mechanical excavation and removal methods including the type of machinery to be used.

4) Provide proof of DEEP Pesticide Application Business registration pursuant to CGS Section 22a-66b, and certifications for each supervisor and operational commercial applicator on-Site or as required under CGS Sections 22a-54 to 22a-58. All Contractors physically applying pesticides on Department construction Projects to treat invasive vegetation in the State highway right-of-way must ensure that the "6 Rights-of-Way Pest Control" certification is held by at least one Commercial Supervisory Pesticide Applicator employed at the Pesticide Application Business. If the applicator does not have a commercial supervisory certificate, then the applicator must have a junior operator certificate in "6 Rights-of-Way Pest Control" and operate under the written or in-person directions of the supervisor who is certified in "6 Rights-of-Way Pest Control." More information on DEEP certifications and permits for applying pesticides is available at the Pesticide Management Program page website. The Department reserves the right to require additional DEEP certifications based on Project Site specific requirements.
5) A description of safety equipment required.
6) Procedures for handling chemical spills.
7) Proposed disposal methods:
   a. Procedures for off-Site removal of invasive vegetation including trees.
   b. Provide address of disposal location, current permits / letters from the town authorizing such activity and a Site map (showing regulated areas).
   c. Invasive vegetation shall not be buried on-Site.

If changes are required to the accepted IVRP during the life of the Contract (including registration/certification changes for the personnel applying pesticides or new invasive species not previously identified in the original IVRP submission) or additional invasive vegetation control and/or removal are ordered by the Engineer, these changes shall be documented by the Contractor and resubmitted to the Engineer or their authorized delegate for review and acceptance. Only those changes recommended by the appropriately licensed supervisor/ applicator will be considered. At no time shall the Contractor direct or advise workforces on the pesticide treatment. All direction must be generated from the licensed Pesticide Application Business and approved by the Engineer.

The IVRP or any amended version must be accepted by the Engineer or their authorized delegate prior to beginning of any mechanical excavation or herbicide treatment in the areas which require invasive species control, removal and off-Site disposal as identified Contractor's marked up plan sheets. The accepted methods must be capable of total control and removal of all identified invasive species in the identified areas throughout the life of the Contract and the 1-year warranty period.

2. Special Handling of Invasive Species Vegetation: The Contractor will be allowed to mechanically excavate invasive vegetation and underlying soils using the accepted methods in the IVRP. The accepted methods must be capable of the removal of all soil to a depth where invasive plant material and root system is no longer evident, to the satisfaction of the Engineer or their authorized delegate. Suitable material shall be provided and placed to final grade as shown on the plans or as directed by the Engineer.

All excavated invasive vegetation and underlying soils shall be considered an unsuitable material and must be removed separately from clearing and grubbing operations and disposed of off-Site at an approved location as described in the Contractor's IVRP.

Whether the Contractor's method of removal is by flush cutting/stump treatment or spraying of herbicides, invasive species, including trees identified as invasive in the above websites or IVRP, must be removed separately from clearing and grubbing operations and disposed of at an approved location as described in the Contractor's IVRP.

The Contractor will not be allowed to strip/cut topsoil from any location and reuse this material within the Project limits identified within the IVRP as an area requiring treatment. The stripped/cut material is considered unsuitable material and is to be taken off-Site to an approved disposal facility as described in the Contractor's IVRP.

Wood chips from invasive species are not allowed to be stockpiled or reused on-Site. Wood chipping on-Site may be allowed to remain on-Site if temporarily stored in a properly contained enclosure and removed off-Site at the end of the treatment cycle, to the satisfaction of the Engineer or their authorized delegate.

No equipment or vehicles other than those required to complete the work as described in the Contractor's IVRP will be permitted in the areas designated for invasive vegetation removal. Any equipment used to process invasive vegetation, such as chippers and transport vehicles, must be cleaned prior to further use.

3. Site Maintenance: Broadcast or uncontrolled spray application will not be permitted, and care must be taken to avoid contacting non-target native species. If any non-target native species to remain within the Project limits are inadvertently treated with herbicide and perish, they shall be replaced with in-kind species at the Contractor's expense.

Vines shall be cut from the ground to the tree canopy. Twining vines within a tree canopy shall be removed to the greatest extent possible without damaging the existing tree to remain. Should branches be damaged, the Contractor shall prune damaged limbs at their expense. All corrective pruning shall meet the requirements of the National Arborists Association Pruning Standards. Note: Use of aerial equipment is encouraged; use of a pole saw to cut vines leaving unsightly debris hanging from the trees will not be allowed.

Flush cutting/stump treatment of brush and trees shall not be more than 2 inches above the ground line.

Any invasive species control and removal work performed throughout the duration of the Contract that causes damage or soil disturbance shall be repaired at the Contractor's expense within 7 days. Disturbed areas shall be vegetatively stabilized with the appropriate seed mix and protected with hay mulch, cellulous fiber mulch, or erosion control matting.

Limits for control and removal of invasive vegetation shall be maintained for the life of the Contract. Should stakes or flagging be damaged during the course of construction, the Contractor shall re-establish limits. Use of reference staking is permissible.

4. Field Meetings: The Contractor's IVRP must receive acceptance from the Engineer, or their authorized delegate and have the Site surveyed, staked, and flagged prior to any field meeting.

The Contractor shall provide at least 10 working days' notice to the Engineer for any scheduled field meeting(s) as described in the IVRP. During the meeting, the Contractor's IVRP shall be reviewed to verify the identified invasive species and to review the square yardage on the marked-up plan sheet(s). At this time, the Engineer or their authorized delegate may identify additional invasive species or designate additional areas for removal that are not included within the Contractor's submitted IVRP.

Additional field meetings may be warranted at any time, as directed by the Engineer or their authorized delegate, to ensure the Contractor is compliant with the IVRP or amended versions.

5. Treatment: The treatment schedule as identified in the IVRP may be modified based on changes to the Contractor's construction schedule or based on existing field conditions. The Contractor shall provide at least 10 working days' notice to the Engineer or their authorized delegate prior to proceeding with each treatment.

Treatment of invasive species will not be permitted without notifying the Engineer or their authorized delegate prior to activity and such personnel shall be on-Site to observe the work, unless specifically authorized otherwise. Treatment shall not be permitted outside of normal working hours, unless specifically authorized.

Prior to any herbicide treatment on-Site, the Contractor shall provide proof of DEEP Pesticide registration/certification, as specified above in **1. IVRP**. The Contractor shall not perform, nor allow subcontractors to perform, any treatment work at any time unless proof of current registration/certification for the actual supervisor and operator conducting or overseeing the herbicide application is available to the Engineer, upon request.

At a minimum, the Contractor shall treat all areas within the optimal growing season between April 15 and October 15. Additional spot treatment measures may be warranted within the same optimal growing season in any year throughout the life of the Contract if full control and removal of the invasive species is not achieved within the Project limits as outlined in the IVRP or as identified by the Engineer or their authorized delegate. When herbicide is used, a minimum of 10 working days is required prior to clearing and grubbing, planting, and seeding operations, so the herbicide application can take effect.

Mechanical excavation and disposal may occur at any time of the year as specified above in **2. Special Handling of Invasive Species Vegetation**.

If rain or windy conditions are anticipated on the day of the scheduled treatment, the Contractor will not be allowed to proceed, unless authorized by the Engineer or their authorized delegate.

Method of Measurement: The work to remove invasive vegetation, as defined above, will be measured for payment by the number of square yards of invasive vegetation surveyed, treated, and removed as required, including any required re-treatment of any regrowth or new growth. This work shall also include the removal of invasive trees, if present. No additional payment will be made for subsequent treatments.

All areas for removal shall be surveyed, flagged, and measured prior to treatment. After a review of the surveyed limits during the field meeting(s), the Engineer may designate additional areas for removal not indicated on the plans which will be measured for payment by the number of square yards treated.

Basis of Payment: The work for the removal of invasive vegetation and trees will be paid for at the Contract unit price per square yard for "Control and Removal of Invasive Vegetation." Payment shall include all labor, surveys, materials, tools, and equipment necessary for limits of the invasive area(s); development and required revisions of the IVRP; maintenance of the limits throughout the Project; species identification; proof of DEEP pesticide registration/certification; and cutting, excavation and replacement of in-kind material, treating, re-treating, removal, and off-Site disposal of designated invasive plant and tree material. Off-Site disposal of residue shall include the loading, transport, dumping, and fees associated with legal off-Site disposal.

- Upon Engineer's acceptance of the required IVRP, the Contractor will receive payment equal to 10% of the estimated Contract Item value.
- Upon completed initial herbicide or mechanical removal treatment methods as described in the IVRP, the Contractor will receive payment equal to 20% of all areas receiving treatment.
- The Contractor will receive incremental payments for each additional treatment throughout the duration of the Project of all areas receiving treatment. The total of incremental payments will not exceed 40% of the Contract item value.
- Upon successful completion of the 1-year warranty period covering all treated areas on the Project, the Contractor will receive final payment.
- Any fines levied against the Department due to the Contractor's or Subcontractor's failure to comply with the specifications or applicable regulations will be deducted from the monies due the Contractor.

All other vegetation to be removed which is not designated as invasive vegetation or invasive tree shall be removed in accordance with the Item "Clearing and Grubbing" or other Contract items. Vegetative stabilization of disturbed areas will be paid for under the respective Contract items.

Pay Item	**Pay Unit**
Control and Removal of Invasive Vegetation	s.y.

ITEM #0969062A – CONSTRUCTION FIELD OFFICE, MEDIUM

Description: Under the item included in the bid documents, adequate weatherproof office quarters with related furnishings, materials, equipment, and other services, shall be provided by the Contractor for the duration of the work, and if necessary, for a close-out period determined by the Engineer. The office, furnishings, materials, equipment, and services are for the exclusive use of CTDOT forces and others who may be engaged to augment CTDOT forces with relation to the Contract. The office quarters shall be located convenient to the work site and installed in accordance with Article 1.08.02. This office shall be separated from any office occupied by the Contractor. Ownership and liability of the office quarters shall remain with the Contractor.

Furnishings/Materials/Supplies/Equipment: All furnishings, materials, equipment, and supplies shall be in like new condition for the purpose intended and require approval of the Engineer.

Office Requirements: The Contractor shall furnish the office quarters and equipment as described below:

Description \ Office Size	Med.
Minimum Sq. Ft. of floor space with a minimum ceiling height of 7 ft.	720
Minimum number of exterior entrances.	2
Minimum number of parking spaces.	7

Office Layout: The office shall have a minimum square footage as indicated in the table above and shall be partitioned as shown on the building floor plan as provided by the Engineer.

Unless otherwise approved by the Engineer, office space shall be partitioned into segregated work areas for each user as follows:

A. Each work area (or cubicle) shall be a minimum of 8 feet × 8 feet, with full height walls or tall cubicle partitions (minimum 6 feet high), placed to provide a minimum of 6 feet walking space around and between each user work area (for social distancing).
B. Only one user (workstation/desk) per work area.
C. Desks, tables, and other work surfaces shall be arranged so that adjacent users do not face each other.

Tie-downs and Skirting: Modular offices shall be tied-down and fully skirted to ground level.

Lavatory Facilities: For field offices sizes Small and Medium the Contractor shall furnish a toilet facility at a location convenient to the field office for use by CTDOT personnel and such assistants as they may engage; and for field offices sizes Large and Extra Large the Contractor shall furnish two (2) separate lavatories with toilet (men and women), in separately enclosed rooms that are properly ventilated and comply with applicable sanitary codes. Each lavatory shall have hot and cold running water and flush-type toilets. For all facilities the Contractor shall supply lavatory and sanitary supplies as required.

Windows and Entrances: The windows shall be of a type that will open and close conveniently, shall be sufficient in number and size to provide adequate light and ventilation, and shall be fitted with locking devices, blinds, and screens. The entrances shall be secure, screened, and fitted with a lock for which four keys shall be furnished. All keys to the construction field office shall be furnished to the CTDOT and will be kept in their possession while State personnel are using the office. Any access to the entrance ways shall meet applicable building codes, with appropriate handrails. Stairways shall be ADA/ABA compliant and have non-skid tread surfaces. An ADA/ABA compliant ramp with non-skid surface shall be provided with the Extra-Large field office.

Lighting: The Contractor shall equip the office interior with electric lighting that provides a minimum illumination level of 100 foot-candles at desk level height, and electric outlets for each desk and drafting table. The Contractor shall also provide exterior lighting that provides a minimum illumination level of 2 foot-candles throughout the parking area and for a minimum distance of 10 ft. on each side of the field office.

Parking Facility: The Contractor shall provide a parking area, adjacent to the field office, of sufficient size to accommodate the number of vehicles indicated in the table above. If a paved parking area is not readily available, the Contractor shall construct a parking area and driveway consisting of a minimum of 6 inches of processed aggregate base graded to drain. The base material will be extended to the office entrance.

Field Office Security: Physical Barrier Devices - This shall consist of physical means to prevent entry, such as: 1) All windows shall be barred, or security screens installed; 2) All field office doors shall be equipped with dead bolt locks and regular day operated door locks; and 3) Other devices as directed by the Engineer to suit existing conditions.

Electric Service: The field office shall be equipped with an electric service panel, wiring, outlets, etc., to serve the electrical requirements of the field office, including lighting, general outlets, computer outlets, electronics, etc., and meet the following minimum specifications:

A. 120/240 volt, 1 phase, 3 wire
B. Ampacity necessary to serve all equipment. Service shall be a minimum 100 amp dedicated to the construction field office.
C. The electrical panel shall include a main circuit breaker and branch circuit breakers of the size and quantity required.
D. Additional 120-volt, single phase, 20-amp, isolated ground dedicated power circuit with dual NEMA 5-20 receptacles will be installed at each desk and personal computer table (workstation) location.
E. Additional 120-volt, single phase, 20-amp, isolated ground dedicated power circuit with dual NEMA 5-20 receptacles will be installed, for use by the Telephone Company.
F. Additional 120-volt circuits and duplex outlets as required meeting National Electric Code requirements.
G. One exterior (outside) wall mounted GFI receptacle, duplex, isolated ground, 120-volt, straight blade.
H. After work is complete and prior to energizing, the State's CTDOT electrical inspector, must be contacted at 860-594-2240. (Do Not Call Local Town Officials)

I. Prior to field office removal, the CTDOT Office of Information Systems (CTDOT OIS) must be notified to deactivate the communications equipment.

Heating, Ventilation and Air Conditioning (HVAC): The field office shall be equipped with sufficient and properly operating, heating, air conditioning, and ventilation equipment to maintain a temperature range of 68°-80° Fahrenheit within the field office. The Contractor shall increase ventilation rates and increase the percentage of outdoor air that circulates into the system where possible.

Telephone Service: The Contractor shall provide telephone service with unlimited nation-wide calling plan. For a Small, Medium, and Large field office this shall consist of the installation of one (1) telephone line for phone/voice service. For an Extra-Large field office this shall consist of three (3) telephone lines for phone/voice service. The Contractor shall pay all charges.

The Contractor shall provide the field office telephone number(s) to the CTDOT Project Engineer within 10 calendar days after the signing of the Contract as required by Article 1.08.02.

Data Communications Facility Wiring: As soon as the field office is in place, the Contractor shall propose a central wiring location, to designated CTDOT District personnel for the review and approval of CTDOT OIS. The central wiring location shall be large enough to house the Contractor supplied modem, Contractor supplied patch panel (if applicable), and CTDOT OIS supplied LAN switch and router. The Contractor shall supply the number of Category 6A 568B patch panels necessary to support the anticipated number of networked devices. The central wiring location shall also house the data circuit with appropriate power requirements and Category 6A cable run to the location of the installed data circuit. Power shall be provided at the central wiring location to power the hardware installed.

The Contractor shall install CAT 6A cables from the central wiring location to each workstation, Smart Board/TV location, Multifunction Laser Printer/Copier/Scanner and any other networked devices. The CAT 6A cables shall terminate in a (Category 6A 568B) wall or surface mount data jack at each networked device. Each run / jack shall be clearly labeled with an identifying Jack Number. The CAT 6A cables shall be terminated at the central wiring location with a service loop and RJ45 connectors. The Contractor shall also supply CAT6A cables of adequate length to reach from the wall or surface mount jack to the device being networked.

The number of networked devices anticipated shall be at least equal to the number of personal computer tables, Multi-Function Laser Printer/Copier/Scanner, Contractor supplied devices, and smartboards listed below.

Additional Equipment, Facilities and Services: The Contractor shall provide at the field office at least the following to the satisfaction of the Engineer:

Furnishing Description	Medium Office Quantity
Office desk (2.5 ft. x 5 ft.) with drawers, locks, and matching desk chair that have pneumatic seat height adjustment and dual wheel casters on the base.	3
Standard secretarial type desk and matching desk chair that has pneumatic seat height adjustment and dual wheel casters on the base.	-
Personal computer tables (4 ft. x 2.5 ft.).	3
Drafting type tables (3 ft. x 6 ft.) and supported by wall brackets and legs; and matching drafter's stool that have pneumatic seat height adjustment, seat back and dual wheel casters on the base.	1
Conference table, 3 ft. x 12 ft.	-
Table – 3 ft. x 6 ft.	-
Office Chairs.	4
Mail slot bin – legal size.	-
Non-fire-resistant cabinet.	-
Fire resistant cabinet (legal size/4 drawer), locking.	1
Storage racks to hold 3 ft. x 5 ft. display charts.	-
Vertical plan racks for 2 sets of 2 ft. x 3 ft. plans for each rack.	1
Double door supply cabinet with 4 shelves and a lock – 6 ft. x 4 ft.	-
Case of cardboard banker boxes (Min 10 boxes/case)	1
Open bookcase – 3 shelves – 3 ft. long.	-
White Dry-Erase Board, 36" x 48" min. with markers and eraser.	1
Interior partitions – 6 ft. x 6 ft., soundproof type, portable and freestanding.	-
Coat rack with 20 coat capacity.	-
Wastebaskets - 30 gal., including plastic waste bags.	1
Wastebaskets - 5 gal., including plastic waste bags.	3
Electric wall clock.	-
Electronic Level	1

Furnishing Description (continued)	Medium Office
	Quantity
Telephone.	2
Full size stapler 20 (sheet capacity, with staples)	2
Desktop tape dispensers (with Tape)	2
8 Outlet Power Strip with Surge Protection	4
Rain Gauge	1
Business telephone system for three lines with ten handsets, intercom capability, and one speaker phone for conference table.	-
Mini refrigerator - 3.2 c.f. min.	1
Hot and cold-water dispensing unit. Disposable cups and bottled water shall be supplied by the Contractor for the duration of the project.	1
Microwave, 1.2 c.f., 1000W min.	1
Fire extinguishers - provide and install type and *number to meet applicable State and local codes for size of office indicated, including a fire extinguisher suitable for use on a computer terminal fire.	*
Electric pencil sharpeners.	2
Multi-Function Laser Printer/Copier/Scanner combination unit, network capable, as specified below under Field Office Technology	1
Field Office Internet Service and Hardware as specified below under Field Office Technology	1
Digital Camera as specified below under Field Office Technology	1
Teleconferencing Equipment as specified below under Field Office Technology	1
Infrared Thermometer, including annual third-party certified calibration, case, and cleaning wipes.	1
Concrete Curing Box as specified below under Concrete Testing Equipment.	1
Concrete Air Meter and accessories as specified below under Concrete Testing Equipment as specified below. Contractor shall provide third party calibration on a quarterly basis.	1
Concrete Slump Cone and accessories as specified below under Concrete Testing Equipment.	1
First Aid Kit	1
T-handle concrete cylinder mold splitter as specified below under Concrete Testing Equipment	1
Smart Phones as specified under Computer Related Hardware and Software.	-

The furnishings and equipment required herein shall remain the property of the Contractor. Any supplies required to maintain or operate the above listed equipment or furnishings shall be provided by the Contractor for the duration of the project.

Field Office Technology:

The Contractor shall supply the internet service connection, Contractor supplied modem, associated hardware, Digital Camera(s), Smart Phones, Multifunction Laser Printer/Copier/Scanner, Conference Room Teleconferencing Equipment, associated hardware and software meeting the requirements of

this specification, as well as the latest minimum specifications posted, as of the Project advertising date, at CTDOTs Construction Field Office Technology web site.

Within 10 calendar days after the signing of the Contract, but before ordering/purchasing the required Digital Camera(s), Smart Phones, Multifunction Laser Printer/Copier/Scanner, Teleconferencing Equipment, as well as associated hardware, the Contractor must submit a copy of their proposed order(s) with catalog cuts and specifications to the Administering CTDOT District for review and approval. The modem, digital cameras, smart phones, and Teleconferencing Equipment will be reviewed by CTDOT District personnel for approval. The Multifunction Laser Printer/Copier/Scanner will be reviewed by the CTDOT OIS. The Contractor shall not purchase the hardware, software, or services until the Administering CTDOT District informs them that the proposed equipment, software, and services are approved. The Contractor will be solely responsible for the costs of any hardware, software, or services purchased without approval.

The Contractor and/or their internet service provider shall be responsible for the installation, setup of the internet service connection and the configuration of the modem with a static IP address. Installation shall be coordinated with CTDOT District and Project personnel. Specifically, the Contractor shall supply the District with a Static IP Address, Subnet Mask Address and Gateway Address immediately upon establishment of internet service connection to assist with OIS equipment installation.

After the approval of the hardware and software, the Contractor shall contact the designated representatives of the CTDOT administering District, a minimum of 2 working days in advance of the proposed delivery or installation of the modem / Internet Service Connection, Digital Camera(s), Smart Phones, Multifunction Laser Printer/Copier/Scanner, Teleconferencing Equipment, as well as associated hardware, software, supplies, and support documentation. The hardware and cabling shall be installed in the field office to and at locations acceptable to the Engineer. Adequate electric service shall be supplied at all hardware and workstation locations to support the Department staff and hardware specified.

The Contractor shall provide all supplies, paper, maintenance, service, and repairs (including labor and parts) for the printer(s), copiers, field office Wi-Fi / internet service, and other equipment and facilities required by this specification for the duration of the Contract. All repairs of contractor supplied equipment and internet service must be performed with-in 48 hours. If the repairs require more than 48 hours, then an equal or better replacement must be provided.

Once the Contract has been completed, the Contractor supplied hardware and software will remain the property of the Contractor.

First Aid Kit: The Contractor shall supply a first aid kit adequate for the number of personnel expected based on the size of the field office specified and shall keep the first aid kit stocked for the duration that the field office is in service.

Rain Gauge: The Contractor shall supply, install and maintain a rain gauge for the duration of the Project, meeting these minimum requirements. The rain gauge shall be installed on the top of a

post such that the opening of the rain gauge is above the top of the post an adequate distance to avoid splashing of rainwater from the top of the post into the rain gauge. The location of the rain gauge and post shall be approved by the Engineer. The rain gauge shall be made of a durable material and have graduations of 0.1 inches or less with a minimum total column height of 5 inches. If the rain gauge is damaged the Contractor shall replace it prior to the next forecasted storm event at no additional cost.

Electronic Level: The Contractor shall supply and maintain in working order, for the duration of the Contract, the number of electronic levels, identified in the Additional Equipment, Facilities and Services table of this specification. The electronic level(s) shall meet the following requirements:

A. 48-inch length, box beam type
B. IP65 water and dust proof
C. 0.1-degree accuracy
D. Backlit display
E. Carrying case included
F. New or like new condition

Concrete Testing Equipment: If the Contract includes items that require compressive strength cylinders for concrete, in accordance with the Schedule of Minimum Testing Requirements for Sampling Materials for Test, the Contractor shall provide the following equipment.

A. Concrete Cylinder Curing Box – meeting the requirements of Section 6.12 of the Standard Specifications.
B. Air Meter – The air meter provided shall be in good working order and meet the requirements of AASHTO T 152.
C. Slump Cone Mold – Slump cone, base plate, and tamping rod shall be provided in like-new condition and meet the requirements of AASHTO T 119, Standard Test Method for Slump of Hydraulic-Cement Concrete.
D. T-handle concrete cylinder mold splitter.

All testing equipment will remain the property of the Contractor at the completion of the Project.

Insurance Policy: The Contractor shall provide a separate insurance policy, with no deductible, in the minimum amount of five thousand dollars ($5,000) to insure all State-owned data equipment and supplies used in the office against all losses. The Contractor shall be named insured on that policy, and the CTDOT shall be an additional named insured on the policy. Insured losses shall include, but not be limited to, theft, fire, and physical damage. The CTDOT will be responsible for all maintenance costs of CTDOT owned computer hardware. In the event of loss, the Contractor shall provide replacement equipment in accordance with current CTDOT equipment specifications, within seven days of notice of the loss. If the Contractor is unable to provide the required replacement equipment within seven days, CTDOT may provide replacement equipment and deduct the cost of the equipment from monies due or which may become due the Contractor under the Contract or under any other contract. The Contractor's financial liability under this paragraph shall be limited to the amount of the insurance coverage required by this paragraph. If the cost of equipment replacement

required by this paragraph should exceed the required amount of the insurance coverage, CTDOT will reimburse the Contractor for replacement costs exceeding the amount of the required coverage.

Maintenance: During field office occupancy by CTDOT, the Contractor shall maintain all facilities and furnishings provided under the above requirements, and shall maintain and keep the office quarters clean through the use of professional cleaning including vacuuming carpet, washing and waxing floors, cleaning restrooms, removal of trash, general cleaning, etc.

Exterior areas shall be mowed and clean of debris. A trash receptacle (dumpster) with weekly pickup (trash removal) shall be provided. Snow removal, sanding and salting of all parking, walkway, and entrance way areas shall be accomplished during a storm if on a workday during work hours, immediately after a storm and prior to the start of a workday. If snow removal, salting and sanding are not completed by the specified time, the State will provide the service and all costs incurred will be deducted from the next payment estimate.

Method of Measurement: The furnishing and maintenance of the Construction Field Office will be measured for payment by the number of calendar months that the office is in place and in operation, rounded up to the nearest month.

There will not be any price adjustment due to any change in the minimum computer related hardware and software requirements.

Basis of Payment: The furnishing and maintenance of the Construction Field Office will be paid for at the Contract unit price per month for "Construction Field Office, Medium," which price shall include all material, equipment, labor, service contracts, licenses, software, repair or replacement of hardware and software, related supplies, utility services, parking area, external illumination, trash removal, snow and ice removal, and work incidental thereto, as well as any other costs to provide requirements specified herein.

Pay Item	**Pay Unit**
Construction Field Office, Medium	Month

ITEM #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:

I-84

The Contractor shall not be permitted to close mainline lanes or shoulders, nor temporarily stage construction vehicles on the mainline shoulders, except for the installation, maintenance, and removal of traffic control devices and construction signs for the maintenance and protection of traffic.

The Contractor shall maintain and protect the minimum number of through lanes and shoulders on a paved travel path not less than 12 feet in width per lane during the hours dictated in the special provision for Article 1.08.04 – Limitation of Operations.

I-84 Rest Area Ramps

The Contractor shall maintain and protect existing traffic operations, with the following exceptions:

- During the allowable periods and when the Contractor is actively working, the Contractor will be permitted to maintain and protect a minimum of one lane of traffic on a paved travelway not less than 14-feet wide, unless otherwise noted on the plans.

Rest Area Roadways

The Contractor shall maintain and protect traffic on the Entrance Roadway, Circulatory Roadway, parking lot drive aisles, and driveways within the rest area on paved travelways not less than 14-feet wide, unless otherwise noted on the plans, and with the following exceptions:

- In drive aisles and driveways that are used primarily by passenger cars, the Contractor will be permitted to maintain and protect a minimum of one lane of traffic on a paved travelway not less than 11-feet wide.
- During the allowable periods and when the Contractor is actively working, the Contractor will be permitted to implement daily off-peak closures of rest area roadways, parking lot drive aisles, and driveways in conjunction with the implementation of on-site detour(s) that provides, maintains, and protects access to the minimum number of parking spaces in the locations shown in the Construction Staging Plans and to the Rest Area Building at all times. The Contractor shall notify the Engineer at least 5 days in advance of implementing any closure and on-site detour.

Intermediate Term Sidewalk Closures

The Contractor shall maintain and protect existing pedestrian accommodations, or a clear pedestrian travelpath (minimum of 4-feet wide), on all existing sidewalks and sidewalk ramps, and on all temporary sidewalks and ramps shown on the plans, with the following exception:

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

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

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

Pedestrians

The Contractor shall provide and maintain clear pedestrian travelpaths (minimum of 4-feet wide) on new or existing sidewalk or temporary walks at all times at the Project site, unless otherwise shown on the plans.

If the Contractor proposes changes to the plans, or the Contract does not include plans, 30 days in advance of implementation, the Contractor shall submit plans and procedures to the Engineer for review. The submittal shall be in accordance with typical details of the Manual on Uniform Traffic Control Devices (MUTCD) for maintaining pedestrian sidewalk access during the reconstruction of the sidewalk. When a sidewalk or pedestrian route is closed, pedestrian traffic must be detoured or temporary sidewalk must be provided. Pedestrian detours and temporary sidewalks must meet ADA requirements. The appropriate signs for the pedestrian detour shall be installed in accordance with the MUTCD. All approaches to the closed sidewalks shall be blocked by Construction Barricade Detectable with Sidewalk Closed signs. Temporary bituminous sidewalk and ramps, if required, will be paid under the "Bituminous Concrete Sidewalk" item and all pedestrian detour signage will be paid under the "Construction Signs" item.

When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

Pedestrians shall be detoured to existing crosswalks, or temporary crosswalks, which shall be located where shown on the plans, or as directed by the Engineer.

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

General

Unpaved travelways will only be permitted for areas requiring full-depth reconstruction or full-width pavement removal. The unpaved section shall be the full-width of the travelway and the transition to the paved travelway shall be perpendicular to the direction of travel. The Contractor will be allowed to maintain traffic on processed aggregate base for a duration not to exceed 10 calendar days.

The Contractor is required to delineate any raised structures within vehicular travelways, 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.

The Contractor shall schedule operations so that pavement removal and pavement placement can be completed full-width across a travelway by the end of a work shift, or as directed by the Engineer.

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

When the Contractor is excavating adjacent to a travelway, the Contractor shall provide a 3-foot shoulder between the work area and travel lanes, with traffic drums spaced every 30 feet, or install temporary traffic barrier as shown on the plans or as directed by the Engineer. 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.

The Contractor, during the course of any active overhead construction work, shall close the travelway or shoulder directly below the work area for the entire length of time overhead work is being undertaken.

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 side-mounted signs within the Project limits throughout the duration of the Project, unless otherwise noted on the plans. 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.

Requirements for Winter

The Contractor shall schedule a meeting with representatives of the Department, including the offices of Maintenance and Traffic, to determine any interim traffic control measures the Contractor shall accomplish prior to winter to provide safety to motorists and rest area patrons and permit adequate snow removal procedures. This meeting shall be held prior to October 31 of each year and will include, but not be limited to, discussion of the status and schedule of the following items: lane and shoulder widths, travelway widths, pavement restoration, pavement markings, signing, Rest Area Building access, and site circulation.

A minimum of eight (8) truck parking spaces shall be available and maintained in the West Truck Parking Lot with access to the west entrance of the Rest Area Building. A minimum of eighteen (18) truck parking spaces shall be available and maintained in the East Truck Parking Lot. All parking spaces shall have an accessible route to the Rest Area Building that is no longer than 650 feet from the furthest space to the nearest Rest Area Building entrance, and that has Circulatory Roadway crossings that are marked and signed in conformance with the plans.

Site circulation shall be provided and maintained during the winter shutdown period via the existing or proposed Recirculation Roadway, or via an on-site detour approved by the Engineer.

The Contractor shall plan and schedule its work accordingly.

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.

Pavement Markings

During construction, the Contractor shall maintain all pavement markings on all paved surfaces throughout the limits of the Project.

Temporary pavement markings shall be installed on each intermediate course of bituminous concrete pavement and on any milled surface that will be opened to traffic by the end of the work shift.

Permanent Epoxy Resin Pavement Markings shall be installed on the final course of bituminous concrete pavement within 10 calendar days of the final pavement installation.

Temporary Pavement Markings

Temporary pavement markings that will be in place for less than 72 continuous hours may consist of temporary plastic pavement marking tape at the Contractor's expense. Additionally:

1. These temporary pavement markings shall include edge lines, lane lines, parking space lines, lane-use arrows, and stop bars shown on the Maintenance and Protection of Traffic plans and as directed by the Engineer.
2. Lane lines shall consist of 4 inch wide white or yellow markings, 2 feet in length, at 40 foot intervals.
3. Stop bars may consist of two 6 inch wide white markings or three 4 inch wide white markings placed side by side.
4. The temporary plastic pavement marking tape shall be installed in accordance with Section 12.12.
5. The Contractor shall remove and dispose of the temporary plastic pavement marking tape prior to another course of bituminous concrete pavement being installed.

Temporary pavement markings that will be in place for 72 continuous hours or more should consist of hot-applied painted pavement markings and shall be installed in accordance with Section 12.09. The markings shall include edge lines, lane lines, parking space lines, lane-use arrows, and stop bars on each intermediate course of bituminous concrete pavement and on any milled surface by the end of the work shift. Edge lines and lane-use arrows are not required if the next course of bituminous concrete pavement will be placed within 10 calendar days.

All temporary pavement markings exposed throughout the winter shall be Epoxy Resin Pavement Markings, unless directed otherwise by the Engineer.

Temporary pavement markings, as described above, shall be maintained until the permanent pavement markings are installed.

Final Pavement Markings

Permanent epoxy resin pavement markings shall be installed in accordance with Section 12.10 and the applicable Traffic Engineering Standard Drawings.

If Temporary Plastic Pavement Marking Tape is installed, then the Contractor shall remove and dispose of these markings during the same work shift that the permanent epoxy resin pavement markings are to be installed. The cost of furnishing, installing and removing the Temporary Plastic Pavement Marking Tape shall be at the Contractor's expense.

Traffic Control During Construction Operations

The following guidelines shall assist field personnel in determining when and what type of traffic control patterns to use for various situations. These guidelines shall provide for a safer and more efficient movement of traffic through work zones and enhance the safety of work forces in the work area.

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 travelway, travel lane or shoulder or is within the clear zone. 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 in order to command respect from the motorist.

Lane reduction tapers should be placed so that the entire length of the taper is installed on a tangent section of roadway and the entire taper area can be seen by the motorist.

All existing conflicting signs shall be removed, covered with an opaque material, or turned so that they are not legible to oncoming traffic prior to implementing a traffic control pattern. The existing signs shall be uncovered or reinstalled once the pattern is removed.

A buffer area should be provided during installation of a traffic control pattern and maintained for the duration of the work. The buffer area shall be free of any equipment, workers, materials, and parked vehicles.

Traffic control patterns are not required for vehicles on an emergency patrol type activity or for a short duration stop of up to one hour, as long as the equipment is contained within the shoulder. Flashing lights, arrow boards, truck-mounted or trailer-mounted impact attenuators, and appropriate Trafficperson(s) shall be used when required.

In a situation not adequately covered by the Construction Traffic Control Plans, the Contractor shall contact the Engineer for assistance prior to setting up a traffic control pattern.

Placement of Signs

Signs shall be placed in a position that allows motorists the opportunity to reduce their speed prior to the work area. Signs shall be installed on the same side of the roadway as the work area. On multi-lane divided highways, advance warning signs shall be installed on both sides of the highway, unless the work area is located on a ramp or secondary facility. On directional roadways (on-ramps, off-ramps, one-way roads) where the sight distance to signs is restricted, these signs should be installed on both sides of the directional roadway.

Allowable Adjustment of Signs and Devices Shown on the Construction Traffic Control Plans

The Construction Traffic Control Plans contained herein show the location and spacing of signs and devices under ideal conditions. Signs and devices should be installed as shown on these plans.

The proper application of the Construction Traffic Control Plans and installation of traffic control devices is dependent upon actual field conditions.

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.

Adjustments to the Construction Traffic Control Plans shall only be made at the direction of the Engineer.

Table 1 indicates the minimum taper lengths required for a lane closure based on the posted speed limit and lane width of the roadway. These taper lengths shall only be used when the recommended taper lengths shown on the Construction Traffic Control Plans cannot be achieved. There is no speed limit for rest area roadways; the Contractor shall assume 30 mph or less.

Table 1 – Minimum Taper Length

POSTED SPEED LIMIT (MPH)	MINIMUM TAPER LENGTH FOR A SINGLE LANE CLOSURE (FEET)	
	FREEWAYS	SECONDARY & REST AREA ROADS
30 OR LESS	180	165
35	245	225
40	320	295
45	540	495
50	600	550
55	660	605
65	780	715

1. Work Zone Safety Meetings

1.a) Prior to the commencement of work, a Work Zone Safety Meeting shall be conducted with representatives from DOT Construction, Connecticut State Police (Local Barracks) as required, the Contractor (Project Superintendent) and the Traffic Control Subcontractor (if different than the prime Contractor) to review the traffic operations, lines of responsibility, and operating guidelines which will be used on the Project. DOT Traffic Engineering shall be invited to the Work Zone Safety Meeting. Other Work Zone Safety Meetings during the course of the Project should be scheduled as needed.

1.b) A Work Zone Safety Meeting Agenda shall be developed and used at the Meeting to outline the anticipated traffic control issues during the construction of this Project. Any issues that can't be resolved at these Meetings will be brought to the attention of the District Engineer and the Office of Construction. The agenda shall include:

i. Review Project scope of work and time;
ii. Review Section 1.08, Prosecution and Progress;
iii. Review Section 9.70, Trafficpersons;

iv. Review Section 9.71, Maintenance and Protection of Traffic;
v. Review Contractor's schedule and method of operations;
vi. Review special concern areas: ramps, turning roadways, medians, lane drops, etc.;
vii. Open discussion of work zone questions and issues;
viii. Discussion of review and approval process for changes in Contract requirements as they relate to work zone areas.

2. General

2.a) Traffic control patterns shall only be installed if the required minimum number of signs, traffic cones, traffic drums, and other equipment (i.e. one Arrow Board for each lane closed, two Truck-Mounted or Trailer-Mounted Attenuators (TMAs), Changeable Message Sign, etc.) are on Site.

2.b) The Contractor shall have spare maintenance and protection of traffic equipment (TMAs, Arrow Board, Changeable Message Sign(s), construction signs, traffic cones, traffic drums, etc.) available at all times in case of mechanical failures, etc. Spare maintenance and protection of traffic equipment installed as a result of a sudden equipment breakdown shall be replaced by the Contractor within 24 hours.

2.c) Failure of the Contractor to have the required minimum number of signs, personnel, and equipment, which results in the pattern not being installed, shall not be a reason for a time extension or claim for lost time.

2.d) In cases of differences of opinion between the Contractor and the Inspection staff, the Contractor shall follow the directions of the Engineer. The matter shall be brought to the District Office for resolution immediately or, in the case of work after regular business hours, on the next business day.

3. Installing and Removing Traffic Control Patterns

3.a) Lane closures shall be installed beginning with the advance warning signs and proceeding forward toward the work area.

3.b) Lane closures shall be removed in the reverse order, beginning at the end of the work area, or traffic control pattern, and proceeding back toward the advance warning signs.

3.c) Stopping traffic may be allowed within the allowable hours stated in Section 1.08.04:
i. For those activities stated within the Contract.
ii. During paving, milling operations, or similar activities where, in the middle of the operation, it is necessary to flip the pattern to complete the operation on the other half of the roadway so traffic does not travel across the longitudinal joint or difference in roadway elevation.
iii. To move slow moving equipment across live traffic lanes into the work area.

3.d) The Contractor shall adhere to using the proper signs, placing the signs correctly, and ensuring the proper spacing of signs.

3.e) Additional devices are required on entrance ramps, exit ramps, and intersecting roads to warn and/or move traffic into the proper travel path prior to merging with or exiting from the mainline traffic. This shall be completed before installing the mainline pattern past the ramp or intersecting roadway.

3.f) Workers are prohibited from crossing the travel lanes on limited access roadways to install and remove signs or other devices on the opposite side of the roadway. Any signs or devices on the opposite side of the roadway shall be installed and removed separately.

4. Use of Truck-Mounted or Trailer-Mounted Impact Attenuators (TMAs)

4.a) On limited access roadways, lane closures shall use a minimum of two TMAs to install and remove traffic control patterns. If two TMAs are not available, then the pattern shall not be installed.

4.b) On non-limited access roadways, the use of TMAs to install and remove patterns closing a lane(s) is optional. The roadway geometry, sight line distance, and traffic volume shall be considered in the decision to utilize the TMAs.

4.c) On limited access roadways, one TMA shall be placed on the shoulder and the second TMA shall be approximately 1,000 feet ahead blocking the lane to establish the advance and transition signing. The Arrow Board mounted on the TMA shall be in the arrow mode when taking the lane. The sign truck and workers shall be at sufficient distance ahead of the second TMA. In no case shall the TMA be used as the sign truck or a work truck. Once the transition is in place, the TMAs shall travel in the closed lane until all Portable Changeable Message Signs, signs, Arrow Boards, and cones/drums are installed. The Arrow Board mounted on the TMA should be in the flashing alternating diamond caution mode when traveling in the closed lane.

4.d) A TMA shall be placed prior to the first work area in the pattern. If there are multiple work areas within the same pattern, then additional TMAs shall be positioned at each additional work area as needed. The Arrow Board mounted on the TMA should be in the flashing alternating diamond caution mode when in the closed lane.

4.e) TMAs shall be positioned a sufficient distance prior to the workers or equipment being protected to allow for appropriate vehicle roll-ahead in the event that the TMA is hit, but not so far that an errant vehicle could travel around the TMA and into the work area. For additional placement and use details, refer to Section 18.06. Some operations, such as paving and concrete repairs, do not allow for placement of the TMA(s) within the specified distances. In these situations, the TMA(s) shall be placed at the beginning of the work area and shall be advanced as the paving or concrete operations proceed.

4.f) TMAs will be paid for in accordance with how the unit is used. If it is used as a TMA and is in the proper location as specified, then it will be paid for at the specified hourly rate for Truck-Mounted or Trailer-Mounted Impact Attenuator. When the TMA is used as an Arrow Board, it will be paid for at the daily rate for Arrow Board. If a TMA is used to install and remove a pattern and is also used as an Arrow Board in the same day, then the unit will be paid for as a Truck-Mounted or Trailer-Mounted Impact Attenuator for the hours used to install and remove the pattern, typically 2 hours (1 hour to install and 1 hour to remove). If the TMA is also used as an Arrow Board during the same day, then the unit will only be paid for at the daily rate as an Arrow Board.

5. Use of Traffic Drums and Traffic Cones

5.a) On limited-access highways, ramps, and turning roadways:

i. Traffic drums shall be used for taper channelization.
ii. Traffic drums shall be used to delineate raised catch basins and other hazards.
iii. Traffic cones with a minimum height of 42 inches may be used in place of drums in the tangent section of a closed lane or shoulder.
iv. Traffic cones less than 42 inches in height shall not be used.

5.b) On all roadways:

i. Traffic drums shall be used in place of traffic cones in traffic control patterns that are in effect for more than a 36-hour duration.
ii. Traffic cones shall not be left unattended.
iii. Traffic cones with a minimum height of 42 inches shall be used when the posted speed limit is 45 MPH or above.

5.c) Typical spacing of traffic drums and/or cones shown on the Construction Traffic Control Plans in the Contract are maximum spacings and may be reduced to meet actual field conditions as required.

6. Use of Barricade Warning Lights

6.a) Barricade Warning Lights may be installed on channelizing devices when used in a merge taper. The Barricade Warning Lights shall flash in a sequential pattern when used in a merge taper. The successive flashing shall occur from the upstream end (beginning) of the merge taper to the downstream end (end) of the merge taper.

6.b) Type C Barricade Warning Lights may be used at night to delineate the edge of the travelway.

6.c) Type B Barricade Warning Lights shall be used on post-mounted advanced warning signs.

7. Use of Portable Changeable Message Signs (PCMS)

7.a) On limited access roadways, one PCMS shall be used in advance of the traffic control pattern for all lane closures. Prior to installing the pattern, the PCMS shall be installed and in operation, displaying the appropriate lane closure information. The PCMS shall be positioned ½ to 1 mile ahead of the start of the lane closure taper. If the distance to the nearest exit ramp is greater than the specified ½ to 1 mile distance, then an additional PCMS shall be positioned a sufficient distance ahead of the exit ramp (and before the previous on-ramp where practical) to alert motorists to the work and therefore offer them an opportunity to take the exit.

7.b) On non-limited access roadways, the use of PCMS for lane closures is optional. The roadway geometry, sight line distance, and traffic volume shall be considered in the decision to use the PCMS.

7.c) PCMS should be placed off the shoulder of the roadway and behind a traffic barrier, if practical. Where a traffic barrier is not available to shield the PCMS, it should be placed off the shoulder and outside of the clear zone. If a PCMS has to be placed on the shoulder of the roadway or within the clear zone, it should be placed on the paved shoulder with a minimum of five traffic drums placed in a taper in front of it to delineate its position. The taper shall meet minimum distance requirements for a shoulder closure. The PCMS shall be protected if it is used for a continuous duration of 36 hours or more.

7.d) The PCMS shall be removed from the clear zone and have the display screen cleared and turned 90 degrees away from the roadway when the PCMS is no longer required.

7.e) The PCMS should not be used within 1,000 feet of an existing PCMS or Variable Message Sign (VMS).

7.f) A PCMS message shall:

i. consist of no more than two phases;
ii. contain no more than three lines of text per phase;
iii. have no more than eight characters per line, including spaces.

7.g) The PCMS should be used for specific situations that need to command the motorist's attention which cannot be conveyed with standard construction signs. The PCMS should not be used for generic messages (ex.: Road Work Ahead, Bump Ahead, Gravel Road, etc.) or for messages that need to be displayed for long periods of time, such as during stage construction. These types of messages should be displayed with construction signs. Special signs shall be coordinated with the Office of Construction and the Division of Traffic Engineering for the proper layout/dimensions required.

7.h) Typical messages that are allowed on the PCMS are shown below. Approval must be received from the Office of Construction for any message(s) different than the typical messages shown in Figure 1.

7.i) All messages shall comply with the information provided in Tables 2 and 3.

Message No.	Phase 1	Phase 2
1	LEFT LANE CLOSED	MERGE RIGHT
2	2 LEFT LANES CLOSED	MERGE RIGHT
3	LEFT LANE CLOSED	REDUCE SPEED
4	2 LEFT LANES CLOSED	REDUCE SPEED
5	RIGHT LANE CLOSED	MERGE LEFT
6	2 RIGHT LANES CLOSED	MERGE LEFT
7	RIGHT LANE CLOSED	REDUCE SPEED
8	2 RIGHT LANES CLOSED	REDUCE SPEED
9	LANES CLOSED AHEAD	REDUCE SPEED
10	LANES CLOSED AHEAD	USE CAUTION
11	EXIT XX CLOSED	USE EXIT YY
12	EXIT XX CLOSED USE YY	FOLLOW DETOUR
13	2 LANES SHIFT AHEAD	USE CAUTION
14	3 LANES SHIFT AHEAD	USE CAUTION

Figure 1: Typical PCMS Messages

Table 2: Acceptable Abbreviations

Word Message	Standard Abbreviation	Word Message	Standard Abbreviation
Access	ACCS	Minimum	MIN
Afternoon / Evening	PM	Minor	MNR
Ahead	AHD	Minute(s)	MIN
Alternate	ALT	Monday	MON
Avenue	AVE, AV	Morning / Late Night	AM
Bicycle	BIKE	Mount	MT
Blocked	BLKD	Mountain	MTN
Boulevard	BLVD	National	NATL
Bridge	BR	Normal	NORM
CB Radio	CB	North	N
Center	CTR	Northbound	NBND
Center	CNTR	Oversized	OVRSZ
Chemical	CHEM	Parking	PKING
Circle	CIR	Parkway	PKWY
Compressed Natural Gas	CNG	Pavement	PVMT
Condition	COND	Pedestrian	PED
Congested	CONG	Place	PL
Construction	CONST	Pounds	LBS
Court	CT	Prepare	PREP
Crossing	XING	Quality	QLTY
Crossing (other than highway-rail)	XING	Right	RT
Downtown	DWNTN	Road	RD
Drive	DR	Roadwork	RDWK
East	E	Route	RT, RTE
Eastbound	EBND	Saint	ST
Electric Vehicle	EV	Saturday	SAT
Emergency	EMER	Service	SERV
Entrance, Enter	ENT	Shoulder	SHLDR
Exit	EX	Slippery	SLIP
Express	EXP	South	S
Expressway	EXPWY	Southbound	SBND
Feet	FT	Speed	SPD
Freeway	FRWY, FWY	State, county, or other non-US or non-Interstate numbered route	[Route Abbreviation determined by highway agency]**
Friday	FRI	Street	ST
Frontage	FRNTG	Sunday	SUN
Hazardous	HAZ	Telephone	PHONE
Hazardous Material	HAZMAT	Temporary	TEMP
High Occupancy Vehicle	HOV	Terrace	TER

Highway	HWY	Thruway	THWY
Highway-Rail Grade Crossing	RR XING	Thursday	THURS
Hospital	HOSP	Tons of Weight	T
Hour(s)	HR, HRS	Traffic	TRAF
Information	INFO	Trail	TR
International	INTL	Travelers	TRVLRS
Interstate	I-	Tuesday	TUES
Junction / Intersection	JCT	Turnpike	TPK
Lane	LN	Two-Way Intersection	2-WAY
Left	LFT	Two-Wheeled Vehicles	CYCLES
Liquid Propane Gas	LP-GAS	Upper	UPR
Local	LOC	US Numbered Route	US
Lower	LWR	Vehicle(s)	VEH, VEHS
Maintenance	MAINT	Warning	WARN
Major	MAJ	Wednesday	WED
Maximum	MAX	West	W
Mile(s)	MI	Westbound	WBND
Miles Per Hour	MPH		

** A space and no dash shall be placed between the abbreviation and the number of the route.

Table 3: Unacceptable Abbreviations

Unacceptable Abbreviation	Intended Word	Common Misinterpretation
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (Merge)
LT	Light (Traffic)	Left
PARK	Parking	Park
POLL	Pollution (Index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
WRNG	Warning	Wrong

8. Use of State Police Officers

8.a) State Police may be used only on limited access highways and secondary roadways that are under their primary jurisdiction. A minimum of one Officer may be used per critical sign pattern; however, a State Police presence is not required. Shoulder closures and right lane closures can generally be implemented without the presence of a State Police Officer. Left lane closures may also be implemented without State Police presence in areas with only moderate traffic and wide, unobstructed medians. It may be desirable to have a State Police presence, when available, under specific situations, such as nighttime lane closures; left lane closures with minimal width for setting up advance signs and staging; lane and shoulder closures on turning roadways/ramps or mainline where sight distance is minimal; and closures where extensive turning movements or traffic congestion regularly occur; however, they are not required.

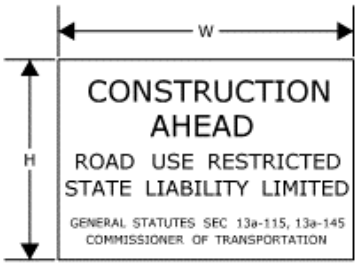
8.b) If a State Police presence is provided, once the pattern is in place, the State Police Officer should be positioned in a non- hazardous location in advance of the pattern to provide advance warning to the motorist. If traffic backs up beyond the beginning of the pattern, then the State Police Officer shall reposition so that they are located prior to the backup. The State Police Officer should not be located immediately behind or within the roll ahead area of any TMA or within the work zone buffer area. The State Police Officer shall not be positioned in such a way that the State Police Officer obstructs any construction warning signs or PCMS from view of the motorist.

8.c) Other functions of the State Police Officer(s) may include:

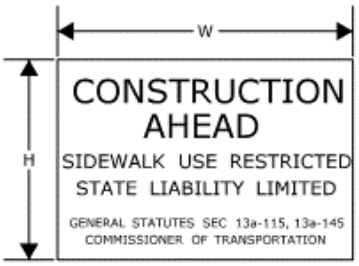
i. Assisting construction vehicles entering and exiting the work area.
ii. Enforcement of motor vehicle laws within the work area, if specifically requested by the Engineer.

8.d) State Police Officers assigned to a work site shall take direction from the Engineer.

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"

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

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

SIGN 16-E SHALL BE USED ON ALL FREEWAYS AND 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.

CONSTRUCTION TRAFFIC CONTROL PLAN
SERIES 16 SIGNS

SCALE: NONE

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

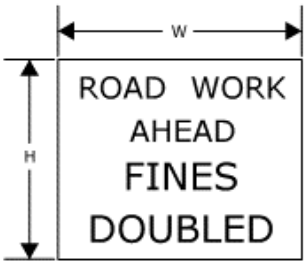
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PRINCIPAL ENGINEER

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 AND MUNICIPAL ROAD IN CONNECTICUT WHERE THERE ARE WORKERS PRESENT ON THE HIGHWAY.

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.

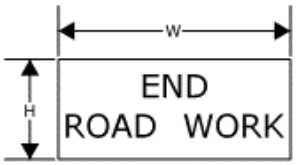
	W	H
31-1906	48"	42"
31-1907	60"	54"



"END ROAD WORK" SIGN

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

	W	H
80-9606	36"	18"
80-9612	48"	24"



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN
ROAD WORK AHEAD SIGNS

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

Tracy L. Fogarty, P.E.
2019.09.12 15:54:44-04'00'

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 IN ADVANCE 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. TRAFFIC CONES AND PORTABLE CONSTRUCTION SIGNS SHALL NOT BE LEFT UNATTENDED.

5. ALL CONFLICTING 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 48 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 $\leq$ 40 MPH).

8. IF THIS PLAN IS TO REMAIN IN OPERATION FROM SUNSET TO SUNRISE, INSTALL BARRICADE WARNING LIGHTS - HIGH INTENSITY ON ALL POST-MOUNTED DIAMOND SIGNS IN THE ADVANCE WARNING AREA.

9. A PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE HALF MILE 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'
35	245'
40	320'
45	540'
50	600'
55	660'
65	780'

CONSTRUCTION TRAFFIC CONTROL PLAN

NOTES

SCALE: NONE

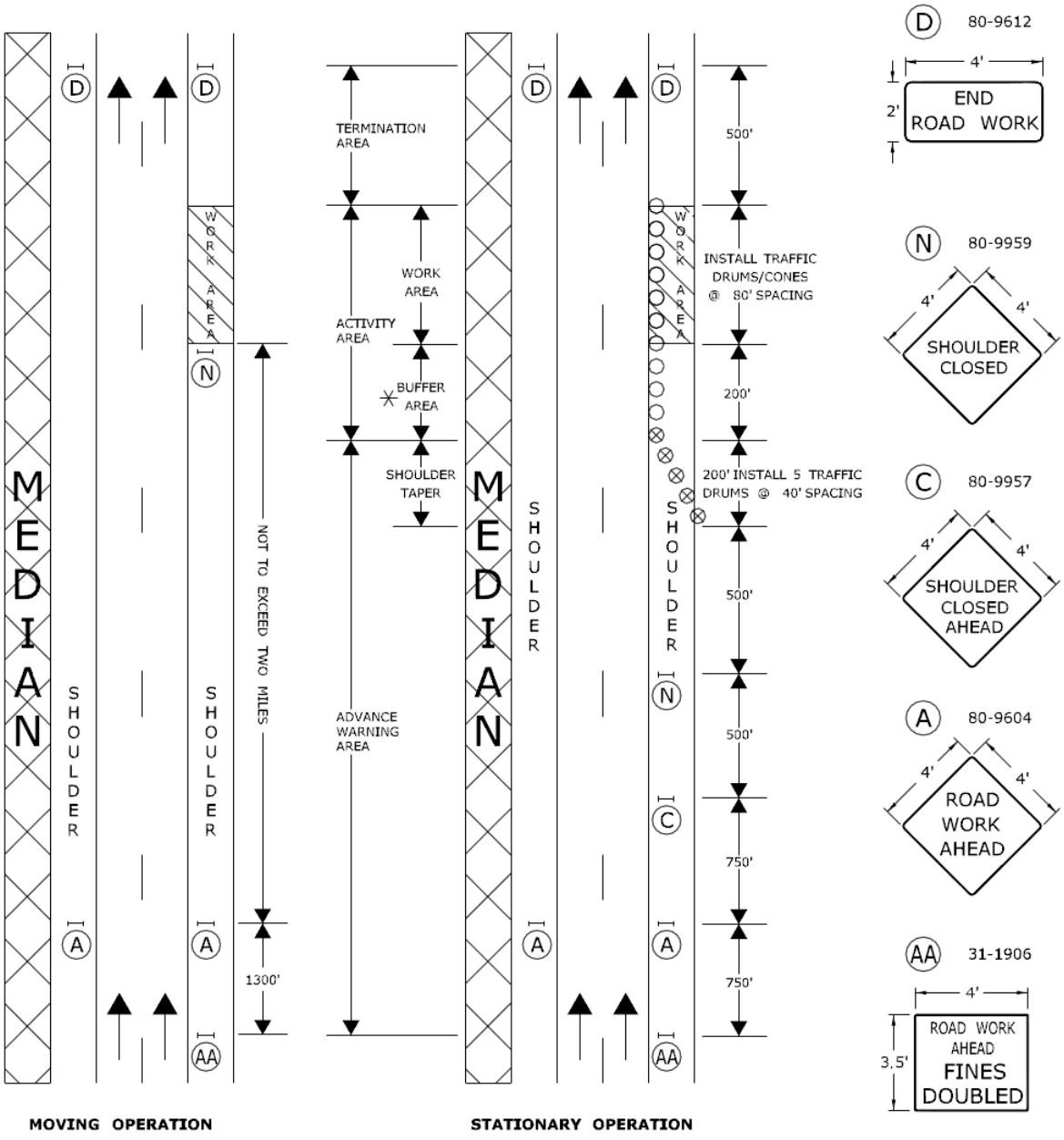
CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED Tracy L. Fogarty, P.E. 2019.09.13 08:47:47-04'00'

PRINCIPAL ENGINEER

WORK IN SHOULDER AREA - MULTILANE HIGHWAY

SIGN FACE
94 SQ. FT (MIN.)



MOVING OPERATION **STATIONARY OPERATION**

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

SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

PLAN 6

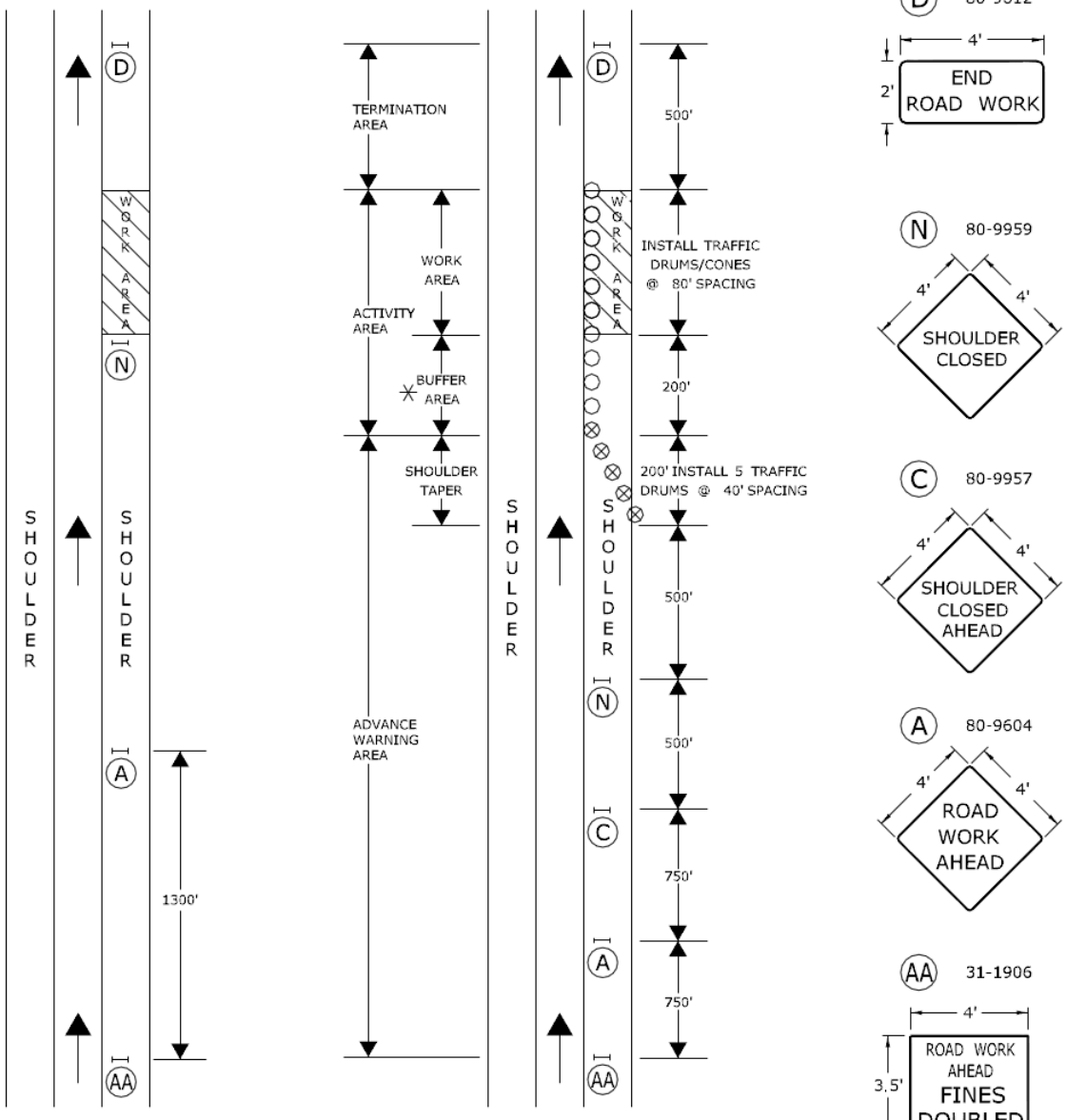
SEE NOTES 1, 2, 4, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
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APPROVED Charles S. Harlow 2012.06.05 15:52:38-04'00'
PRINCIPAL ENGINEER

WORK IN SHOULDER AREA - TURNING ROADWAYS / RAMPS

SIGN FACE
70 SQ. FT (MIN.)



MOVING OPERATION

STATIONARY OPERATION

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

SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

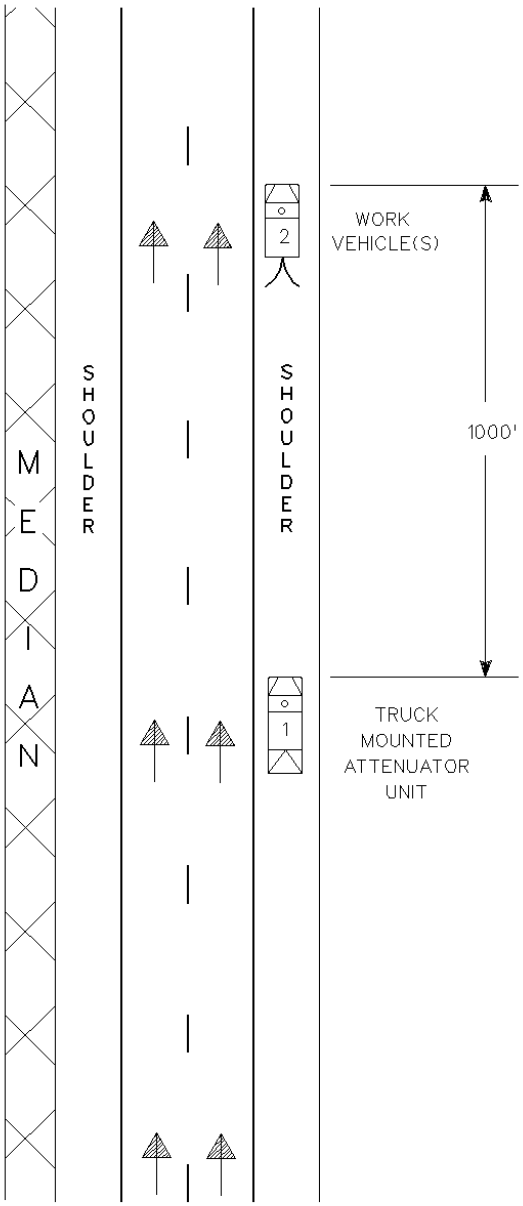
PLAN 9

SEE NOTES 1, 2, 4, 8

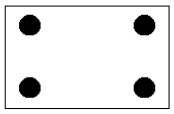
CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED Charles S. Harlow 2012.06.05 15:53:53-04'00'
PRINCIPAL ENGINEER

MOVING OPERATION ON RIGHT SHOULDER
MULTILANE HIGHWAY & SECONDARY ROADWAYS



SIGN MOUNTED ON TRUCK 1



DEPARTMENT APPROVED
ARROW BOARD
(FLASHING YELLOW MODE)

REV'D 1-02

CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING &
HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

CONSTRUCTION
TRAFFIC CONTROL PLAN

PLAN 19

SCALE NONE

APPROVED J. Mccall PRINCIPAL ENGINEER DATE 1-30-02

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 paid for under the item "Maintenance and Protection of Traffic".

ITEM #0979005A – PEDESTRIAN BARRICADE

Section 9.79 is supplemented and amended as follows:

9.79.01 – Description:

Replace the entire Article with the following:

Under this item the Contractor shall furnish all Pedestrian Barricades required on the Project as stated in the item "Maintenance and Protection of Traffic," as shown on the Plans, and as directed by the Engineer.

Pedestrian barricades visible to vehicular traffic shall have retroreflective sheeting compliant with the Retroreflective Sheeting: Construction Barricade Sheeting section of the Department's Qualified Product List on the side(s) facing vehicular traffic.

9.79.02 – Materials:

Replace the entire Article with the following:

Pedestrian Barricades used on the Project shall be listed on the Department's Qualified Product List under the Pedestrian Barricade category as follows:

- The barricades listed under the Test Level 3 category may be used on roadways with a posted speed limit of 60 miles per hour or less;
- The barricades listed under the Test Level 2 category may be used on roadways with a posted speed limit of 40 miles per hour or less;

Water filled Pedestrian Barricades shall only be used when the air temperature is above 33ºF. Such barricades shall only be filled with water and may not contain additional chemicals.

9.79.03 – Construction Methods:

Add the following:

Pedestrian Barricades shall be installed per manufacturer guidelines.

Barricade supports shall not protrude more than 4 inches into the pedestrian facility.

Pedestrian Barricades used to close a pedestrian facility shall cover the entire width of the pedestrian facility.

Pedestrian Barricades used for channelizing pedestrian traffic shall meet the following requirements:

1. Barricades along the pedestrian path shall be interlocked and the gap between adjacent devices shall not exceed 1 inch;

2. Barricades shall be installed to produce a smooth continuous length of barrier, except for locations where access to, or crossing, a pedestrian facility is allowed;

9.79.04 – Method of Measurement:

Replace the entire Article with the following:

Pedestrian Barricades will be measured as the number of feet along the top rail of pedestrian barricades installed and accepted on the Project.

9.79.05 – Basis of Payment:

Replace the entire Article with the following:

Pedestrian Barricades will be paid at the Contract unit price per linear foot for "Pedestrian Barricade." The length of Pedestrian Barricades will be paid for once, regardless of the number of times used on the Project.

Pay Item	**Pay Unit**
Pedestrian Barricade	l.f.

ITEM #0980020A – CONSTRUCTION SURVEYING

Article 9.80.01 – Description *is supplemented by the following:*

Description: Work under this item shall also consist of furnishing labor, equipment, tools and materials to perform underground utility survey, as required, to determine and mark out the locations and depths of on-site, CTDOT-owned utility services prior to the start of excavation activities on the Project.

Article 9.80.02 – Materials *is supplemented by the following:*

Materials: Colored flags and paint used for marking out the locations and depths of underground utilities shall be durable and readily visible; colors shall be in conformance with standard American Public Works Association (APWA) color coding:

Green – Storm and sanitary sewers and drainage systems
Blue – Water
Red – Electrical power lines, electrical power conduits and illumination facilities
Orange – Communication lines or cables
Yellow – Gas
Brown – Other

Article 9.80.03 – Construction Methods *is supplemented by the following:*

Construction Methods: Underground utility survey shall be performed with cable and pipe locator and ground-penetrating radar (GPR) technology, as required. Active mode cable and pipe locating shall be performed by directly applying a radio signal via a portable transmitter to any of the following utilities that appear to traverse the Project area including: electric, water, storm drainage, sanitary sewer, telecommunications, and/or gas. A hand-held receiver shall be used to mark the location and depth of each of these lines. A detectable duct rod shall be snaked within any sanitary sewer, storm sewer, drain lines, or any other non-metallic, non-conductive lines. A signal shall be applied to the detectable rod, and a hand-held receiver shall be used to mark the location and depth of the duct rod, thereby indicating the location and depth of each of these lines. A GPR survey shall be performed where needed to corroborate the results of the cable and pipe locating survey, and to search for inaccessible, non-metallic, unknown, and abandoned lines as well as underground storage tanks (USTs) and other potential anomalies in the Project area. Colored flags and/or painted markings shall be placed at regular intervals and angle points along the identified utilities to clearly mark out the locations and depths.

Article 9.80.05 – Basis of Payment *is replaced by the following:*

Basis of Payment: Construction Surveying will be paid for at the Contract lump sum price for "Construction Surveying," based on the completed portions of the work, including underground utility surveying and mark-out. This price shall include all labor, submittals, materials, tools, equipment, removal of materials and all work incidental thereto.

Pay Item	**Pay Unit**
Construction Surveying	l.s.

ITEM #1003906A – REMOVE LIGHT STANDARD

DESCRIPTION: Work under this item shall consist of removing an existing light standard with transformer base (where present), brackets, and luminaires as indicated on the plans or as directed by the Engineer.

CONSTRUCTION METHODS: Prior to removing the existing light standard, the Contractor shall be responsible for ensuring that power to the luminaire has been properly and temporarily disconnected. The Contractor shall remove the light standard, transformer base (where present), brackets, and luminaires, where required. The removed materials shall become the property of the Contractor.

The Contractor shall be responsible for transporting the materials from the Project, and the proper handling, disposal or recycling of those materials in accordance with applicable local, State, and Federal regulations.

METHOD OF MEASUREMENT: This work will be measured for payment by the number of light standards with associated equipment removed and disposed of complete and accepted.

BASIS OF PAYMENT: This work will be paid for at the contract unit price each for "Remove Light Standard" complete, which price shall include the removal of a light standard with associated transformer base (where present), brackets, luminaires, cable, and hardware, delivering, disposing, hauling, and including all materials, tools, equipment, labor and work incidental thereto.

Pay Item	Pay Unit
Remove Light Standard	EA.

ITEM #1003912A – REMOVE CONCRETE LIGHT STANDARD BASE

DESCRIPTION: Under this item the Contractor shall remove an existing concrete light standard base where shown on the plans or as directed. The removed concrete base shall remain the property of the Contractor.

CONSTRUCTION METHODS: The Contractor shall remove a concrete light standard base where required. The removed base shall be properly disposed of by the Contractor. The resulting excavation shall be backfilled with a gravel type fill, top soiled, graded, and seeded to match surrounding area, unless otherwise noted on the plans.

METHOD OF MEASUREMENT: This work will be measured for payment by the number of concrete light standard bases removed and disposed of, complete and accepted.

BASIS OF PAYMENT: This work will be paid for at the contract unit price each for "Remove Concrete Light Standard Base", which price shall include excavation, removal, backfill, topsoil, grass seed, hauling and disposing of the concrete base, all materials, equipment and work incidental thereto.

Pay Item	Pay Unit
Remove Concrete Light Standard Base	EA.

ITEM #1003925A – REMOVE EXISTING LUMINAIRE

DESCRIPTION: Work under this item shall consist of removing an existing luminaire from an existing light standard and bracket, and associated equipment as indicated on the plans or as directed by the Engineer and in accordance with these specifications.

CONSTRUCTION METHODS: Prior to removing the existing luminaire, the Contractor shall be responsible for ensuring that power to the luminaire has been properly and temporarily disconnected. The Contractor shall remove an existing luminaire, and associated equipment where required. The removed materials shall become the property of the Contractor.

The Contractor shall be responsible for transporting the materials from the Project, and the proper handling, disposal or recycling of those materials in accordance with applicable local, State, and Federal regulations.

METHOD OF MEASUREMENT: This work will be measured for payment by the number of existing luminaires with associated equipment, removed and disposed of complete and accepted.

BASIS OF PAYMENT: This work will be paid for at the contract unit price each for "Remove Existing Luminaire," which price shall include removal of the luminaire and associated equipment, hauling and unloading, disposal, and all materials, tools, equipment and labor incidental thereto.

Pay Item	Pay Unit
Remove Existing Luminaire	EA.

ITEM #1005601A – LED LUMINAIRE – TYPE 1

DESCRIPTION: This item shall consist of furnishing and installing a light emitting diode (LED) luminaire of the wattage, distribution, and voltage as specified, completely wired and attached to the arm or bracket of the pole in accordance with the plans and specifications.

MATERIALS:

For luminaires with a Type II light distribution:

Philips Road Focus, catalog number: **RFM-100W60LED-4K-G2-R2M-HVU-API-SP2-GY3**, with the following characteristics: 100 watts, 13,615 lumens, 4000k CCT, 480 volt, Type II light distribution, and 20kV/10kA surge suppression.

American Electric, Autobahn, catalog number: **ATB0-P204-480-R2-NR-NL,** with the following characteristics: 88 watts, 12,410 lumens, 4000k CCT, 480 volt, Type II light distribution, and 20kV/10kA surge suppression.

Eaton, Cooper Lighting, Archeon Medium, catalog number: **ARCH-M-PA2-90-740-8-T2U-AP-20K-K** with the following characteristics: 92 watts, 14,535 lumens, 4000k CCT, 480 volt, Type II urban light distribution, and 20kV/10kA surge suppression.

General Electric, Evolve, catalog number: **ERLH-H-13-B3-40-1-GRAY-G-I-T** with the following characteristics: 111 watts, 13,000 lumens, 4000k CCT, 480 volt, Type II wide light distribution, and 20kV/10kA surge suppression.

For luminaires with a Type III light distribution:

Philips Road Focus, catalog number: **RFM-100W60LED-4K-G2-R3M-HVU-API-SP2-GY3**, with the following characteristics: 100 watts, 13,688 lumens, 4000k CCT, 480 volt, Type III light distribution, and 20kV/10kA surge suppression.

American Electric, Autobahn, catalog number: **ATB0-P204-480-R3-NR-NL,** with the following characteristics: 88 watts, 12,470 lumens, 4000k CCT, 480 volt, Type III light distribution, and 20kV/10kA surge suppression.

Eaton, Cooper Lighting, Archeon Medium, catalog number: **ARCH-M-PA2-90-740-8-T3-AP-20K-K** with the following characteristics: 92 watts, 14,621 lumens, 4000k CCT, 480 volt, Type III light distribution, and 20kV/10kA surge suppression.

General Electric, Evolve, catalog number: **ERLH-H-13-C3-40-1-GRAY-G-I-T** with the following characteristics: 111 watts, 13,000 lumens, 4000k CCT, 480 volt, Type III wide light distribution, and 20kV/10kA surge suppression.

No alternate luminaires will be accepted. A catalog cut will be required. It is the Contractor's responsibility to install a luminaire of the required light distribution Type (II or III) at the location as called for on the plans. Shop drawings for this item shall include both Type II and Type III light distributions. Prior to ordering the luminaire from the manufacturer, the Contractor shall determine the correct quantity of each distribution type.

The luminaire housing shall be powder coated grey in color.

The luminaire shall be equipped with an internal bubble level.

The luminaire housing shall not have a photocontrol receptacle.

The luminaire's onboard circuitry shall include a surge protection device (SPD) to withstand high repetition noise transients as a result of utility line switching, nearby lightning strikes, and other interference. The LED luminaire shall be provided with integral 20kV/10kA surge protection which shall conform and be labeled as UL 1449 compliant. The SPD protects the luminaire from damage and failure for common and differential mode transient peak currents up to 10 kA (minimum). SPD performance shall have been tested per procedures in ANSI C136.2/IEEE C62.41-2:2002 category C high exposure. The SPD shall be connected so that in the event of catastrophic failure the luminaire will no longer operate and the driver and light engine will be isolated from additional spikes. The SPD shall be field replaceable.

The LED luminaire shall carry a limited five year warranty on the LEDs and the Driver.

Conductors shall be #10 AWG in accordance with Article M.15.11 of the Standard Specifications. Insulation shall be THHN/THWN and rated for 600 volts. The equipment grounding conductor shall be No. 10 AWG, THHN/THWN, rated for 600 volts. The ground wire shall be green in color.

Fuses and fuse holders shall conform to the requirements of Article M.15.05. Fuses shall be fast acting type, rated at 10 amps.

CONSTRUCTION METHODS: The LED luminaire shall be installed at the end of the bracket and shall be securely fastened, properly oriented, connected to the power supply conductors, cleaned, and ready for operation. The luminaire shall be leveled using the internal bubble level within the fixture (if so equipped) or by placing an electronic (digital) level along the flat bottom face of the luminaire. All luminaires suspected of not being leveled shall be re-leveled by the Contractor at the discretion of the Engineer. The Contractor shall ensure that once installed the LED luminaire functions properly.

For installation on a new light standard: Fuse holders and fuses shall be installed in the pole base or in the adjacent cast iron junction box for bridge parapet mounted poles. Three No. 10 AWG conductors shall be installed from the fuse holders to the luminaire. The luminaire shall be properly grounded with a No. 10 AWG equipment ground connected between the ground rod/system in the light pole base and the grounding lug in the luminaire.

For installation on an existing light standard: The Contractor shall remove and replace the existing no. 10 AWG conductors and existing fuses/fuse kits. Three No. 10 AWG conductors shall be installed from the fuse holders to the luminaire. For three phase lighting systems, the circuit phase connection of the existing luminaire (to be removed) shall be retained when connecting the LED luminaire. The luminaire shall be properly grounded with a No. 10 AWG equipment ground connected between the ground rod/system in the light pole base and the grounding lug in the luminaire. Existing tap conductors and fuse kits which are removed shall be properly disposed of by the Contractor. The existing HPS luminaire shall be removed under a separate item.

Luminaires classified as "spare" on the plans shall not be installed but shall be transferred to ConnDOT District Electrical Maintenance. The Contractor shall contact the Electrical Maintenance Supervisor at least 48 hours in advance to coordinate the transfer of materials. The Contractor shall load the luminaire (factory sealed in original packaging) onto the ConnDOT transport vehicle(s). The Contractor shall contact the project appropriate Electrical Maintenance Supervisor at the following telephone numbers:

District 1: 860-566-3156
District 2: 860-537-8942
District 3: 203-878-1869
District 4: 203-264-9590

METHOD OF MEASUREMENT: This work will be measured for payment by the number of LED luminaires installed, complete and accepted.

BASIS OF PAYMENT: This work will be paid for at the contract unit price each for "LED Luminaire – Type 1" of the type and size specified, complete and accepted in place, which price shall include all materials including luminaire, LEDs, driver, surge suppressor, conductors, fuses, fuse holders, connections, leveling, grounding, transfer of spare luminaire(s), and all labor, tools, equipment and work incidental thereto.

Pay Item	**Pay Unit**
LED Luminaire – Type 1	EA.

ITEM #1005602A – LED LUMINAIRE – TYPE 2

DESCRIPTION: This item shall consist of furnishing and installing a light emitting diode (LED) luminaire of the wattage, distribution, and voltage as specified, completely wired and attached to the arm or bracket of the pole in accordance with the plans and specifications.

MATERIALS: The LED luminaire shall be one of the following three listed products. No "or equal" luminaire products will be accepted. If any of the listed products are no longer produced by the manufacturer, the current equivalent model from that manufacturer may be proposed by the Contractor, subject to approval by the Engineer.

Cooper Lighting Solutions, Archeon Medium, catalog number: **ARCH-M-PA2-100-740-8-T4W-AP-20K-K** with the following characteristics: 101 watts, 15,742 lumens, 4000K CCT, 480-volt, Type IV Wide light distribution, 20kV/10kA surge protection.

American Electric Lighting, Autobahn, catalog number: **ATB0-P303-480-R4-NR-NL,** with the following characteristics: 106 watts, 15,380 lumens, 4000K CCT, 480-volt, Type IV light distribution, and 20kV/10kA surge protection.

Current Lighting Solutions (formerly GE Current): Evolve, catalog number: **ERL2-5-16-D5-40-GRAY-G-I-T,** with the following characteristics: 114 watts, 16,000 lumens, 4000K CCT, 480-volt, Type IV light distribution, and 20kV/10kA surge protection.

The luminaire housing shall be powder-coated grey in color.

The luminaire shall be equipped with an internal bubble level indicator.

The luminaire housing shall not have a photocontrol receptacle.

The luminaire's onboard circuitry shall include a surge protection device (SPD) to withstand high repetition noise transients as a result of utility line switching, nearby lightning strikes, and other interference. The LED luminaire shall be provided with integral 20kV/10kA surge protection which shall conform and be labeled as UL 1449-compliant. The SPD protects the luminaire from damage and failure for common and differential mode transient peak currents up to 10 kA (minimum). SPD performance shall have been tested per procedures in ANSI C136.2/IEEE C62.41-2:2002 category C high exposure. The SPD shall fail in such a way as the luminaire will no longer operate and the driver will be isolated from additional spikes. The SPD shall be field replaceable.

The LED luminaire shall carry a limited five-year warranty on the LEDs and the driver.

Conductors shall be #10 AWG in accordance with Article M.15.11 of the Standard Specifications. Insulation shall be THHN/THWN and rated for 600 volts. The equipment grounding conductor shall be No. 10 AWG, THHN/THWN, rated for 600 volts. The ground wire shall be green in color.

Fuses and fuse holders shall conform to the requirements of Article M.15.05. Fuses shall be fast acting type, rated at 10 amps.

The Contractor shall submit product data sheets including product warranty information for approval prior to procuring the luminaires.

CONSTRUCTION METHODS: The LED luminaire shall be installed at the end of the bracket and shall be securely fastened, properly oriented, connected to the power supply conductors, cleaned, and ready for operation. The luminaire shall be leveled using the internal bubble level within the fixture (if so equipped) or by placing an electronic (digital) level along the flat bottom face of the luminaire. All luminaires suspected of not being leveled shall be re-leveled by the Contractor at the discretion of the Engineer. The Contractor shall ensure that once installed the LED luminaire functions properly.

For installation on a new light standard: Fuse holders and fuses shall be installed in the pole base or in the adjacent cast iron junction box for bridge parapet mounted poles. Three No. 10 AWG conductors shall be installed from the fuse holders to the luminaire. The luminaire shall be properly grounded with a No. 10 AWG equipment ground connected between the ground rod/system in the light pole base and the grounding lug in the luminaire.

For installation on an existing light standard: The Contractor shall remove and replace the existing no. 10 AWG conductors and existing fuses/fuse kits. Three No. 10 AWG conductors shall be installed from the fuse holders to the luminaire. For three phase lighting systems, the circuit phase connection of the existing luminaire (to be removed) shall be retained when connecting the LED luminaire. The luminaire shall be properly grounded with a No. 10 AWG equipment ground connected between the ground rod/system in the light pole base and the grounding lug in the luminaire. Existing tap conductors and fuse kits which are removed shall be properly disposed of by the Contractor. The existing HPS luminaire shall be removed under a separate item.

METHOD OF MEASUREMENT: This work will be measured for payment by the number of LED luminaires installed, completed and accepted.

BASIS OF PAYMENT: This work will be paid for at the contract unit price each for "LED Luminaire – Type 2," completed and accepted in place, which price shall include all materials including luminaire, LEDs, driver, surge protection device, conductors, fuses, fuse holders, connections, bubble level indicator, grounding, and all labor, tools, equipment and work incidental thereto.

Pay Item	**Pay Unit**
LED Luminaire – Type 2	EA.

ITEM #1010902A – REMOVE CONCRETE HANDHOLE

DESCRIPTION: Under this item the Contractor shall remove an existing concrete handhole and cover where indicated on the plans or as directed by the Engineer. The removed concrete handhole with cover shall be disposed of by the Contractor.

CONSTRUCTION METHODS: The Contractor shall remove and dispose of an existing concrete handhole and cover where indicated on the plans or as directed by the Engineer. The resulting excavation shall be backfilled with a gravel type fill, receive topsoil, be graded to match the surrounding grade, and receive turf establishment, unless otherwise noted on the plans.

METHOD OF MEASUREMENT: This work will be measured for payment by the number of concrete handholes removed and disposed of, complete and accepted.

BASIS OF PAYMENT: This work will be paid for at the Contract unit price each for "Remove Concrete Handhole," which price shall include excavation, removal, disposal, backfill, topsoil, turf establishment, and all materials, equipment and work incidental thereto.

Pay Item	Pay Unit
Remove Concrete Handhole	ea.

ITEM #1014901A – REMOVE CABLE

DESCRIPTION: This item shall consist of removing conductors and cables from existing cabinets, conduit and handholes where indicated in the plans or as directed by the Engineer and in accordance with these specifications. This item shall also consist of removing direct-buried conductors and cables where indicated in the plans or as directed by the Engineer. The removed conductors and cables shall remain the property of the Contractor.

CONSTRUCTION METHOD: The Contractor shall remove all conductors and cables from existing cabinets, conduit and handholes at the location where new conductors and cables are to be installed. Prior to installing the new conductors and cables, all existing conductors and cables shall have been removed, neatly coiled, tied and the conduit reamed cleaned. Where direct-buried conductors and cables are to be removed, the Contractor shall excavate a trench over the conductors and cables between handholes and electrical devices or fixtures to expose and completely remove the conductors and cables from the ground. The removed conductors and cables shall be disposed of by the Contractor. The trench shall be backfilled and compacted and the surfaces shall be restored to their original condition.

METHOD OF MEASUREMENT: This work shall be measured for payment by the actual number of linear feet of conduit from which all conductors are removed, also including the length of handholes, junction boxes, and cabinets. Where direct-buried conductors and cables are to be removed, the work shall be measured for payment by the number of linear feet of trench excavation required for the removal.

BASIS OF PAYMENT: This work will be paid for at the contract unit price per linear foot for "Remove Cable" which price shall include the removal of all conductors and cables, the cleaning of conduit, trench excavation, the proper disposal of the removed conductors and cables, restoration of surfaces, and all equipment, labor and work incidental thereto.

Pay Item	Pay Unit
Remove Cable	l.f.

ITEM #1206023A – REMOVAL AND RELOCATION OF EXISTING SIGNS

Section 12.06 is supplemented as follows:

Article 12.06.01 – Description is supplemented with the following:
Work under this item shall consist of the removal and/or relocation of designated side-mounted extruded aluminum and sheet aluminum signs, sign posts, sign supports, and foundations where indicated on the plans or as directed by the Engineer. Work under this item shall also include furnishing and installing new sign posts and associated hardware for signs designated for relocation.

Article 12.06.03 – Construction Methods is supplemented with the following:
The Contractor shall take care during the removal and relocation of existing signs, sign posts, and sign supports that are to be relocated so that they are not damaged. Any material that is damaged shall be replaced by the Contractor at no cost to the State.

Foundations and other materials designated for removal shall be removed and disposed of by the Contractor as directed by the Engineer and in accordance with existing standards for Removal of Existing Signing.

Sheet aluminum signs designated for relocation are to be re-installed on new sign posts.

Article 12.06.04 – Method of Measurement is supplemented with the following:
Payment under Removal and Relocation of Existing Signs shall be at the contract lump sum price which shall include all extruded aluminum and sheet aluminum signs, sign posts, and sign supports designated for relocation, all new sign posts and associated hardware for signs designated for relocation, all extruded aluminum signs, sheet aluminum signs, sign posts and sign supports designated for scrap, and foundations and other materials designated for removal and disposal, and all work and equipment required.

Article 12.06.05 – Basis of Payment is supplemented with the following:
This work will be paid for at the contract lump sum price for "Removal and Relocation of Existing Signs" which price shall include relocating designated extruded aluminum and sheet aluminum signs, sign posts, and sign supports, providing new posts and associated hardware for relocated signs, removing and disposing of foundations and other materials, and all equipment, material, tools and labor incidental thereto. This price shall also include removing, loading, transporting, and unloading of extruded aluminum signs, sheet aluminum signs, sign posts, and sign supports designated for scrap and all equipment, material, tools and labor incidental thereto.

Pay Item	Pay Unit
Removal and Relocation of Existing Signs	L.S.

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

ITEM #1208937A – SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)

Section 12.08 is supplemented and amended as follows:

12.08.01 – Description:

Add the following:

All signs shall use Type XI retroreflective sheeting with the exception of side-mounted signs with white background which shall be Type IX.

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

Signs shall conform to the sign details located at https://portal.ct.gov/dot/-/media/dot/traffic-design/signcatalogpdf with legend for variable signs as shown in the plans.

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.

Pay Factor Scale: Work shall be considered defective whenever the base post length or base post embedment depth is less than the specified length by more than 2 inches. If the number of defects results in rejection, the Contractor shall remove and replace all metal sign base posts on the Project, at no cost to the Department.

Number of Posts to be Tested and Pay Factors (Based on Number of Defects)

Number of Posts in Project =>	**51-100**	**101-250**	**251-1000**	**>1000**
Sample Size=>	**5 Posts**	**10 Posts**	**40 Posts**	**60 Posts**
0 Defects	1.0	1.0	1.025	1.025
1 Defect	0.9	0.95	0.975	0.983
2 Defects	Rejection	0.9	0.95	0.967
3 Defects	Rejection	Rejection	0.925	0.95
4 Defects	Rejection	Rejection	0.9	0.933
5 Defects	Rejection	Rejection	Rejection	0.917
6 Defects	Rejection	Rejection	Rejection	0.9
7 or more Defects	Rejection	Rejection	Rejection	Rejection

Note: Projects with 50 or fewer posts will not include field testing

ITEM #1220027A – CONSTRUCTION SIGNS

Section 12.20 *is supplemented and amended as follows:*

Article 12.20.01 – Description:

Add the following:

The Contractor shall also furnish, install, maintain, and remove Bipartisan Infrastructure Law project signs. The Bipartisan Infrastructure Law project signs shall be of the details, colors and materials as shown on the attached detail sheet.

The sign legend for this Project shall include the U.S. Department of Transportation pictograph on the lower right side of the sign.

Article 12.20.03 – Construction Methods:

Add the following:

The Contractor shall install the Bipartisan Infrastructure Law (BIL) project sign prior to initiating construction.

The Contractor shall install BIL project sign 80-5958 on the facility grounds in the area of the Rest Area Building, or other area in the vicinity of construction as indicated in the Contract documents or directed by the Engineer.

The sign detail is included and is also available at 80-5957.

The Contractor shall maintain the BIL project sign for the entire duration of the Project. The Contractor shall relocate the BIL project sign during construction as needed and shall remove the sign after construction work is completed.

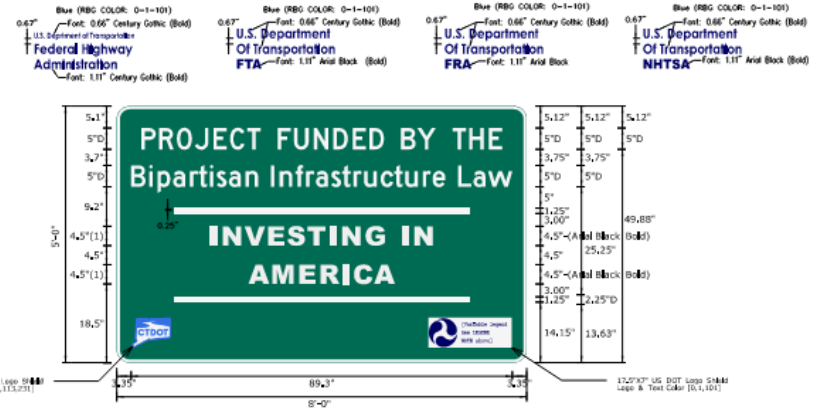
Article 12.20.05 – Basis of Payment:

Add the following:

The price shall also include furnishing, installing, maintaining, relocating, and removing the Bipartisan Infrastructure Law project sign and sign posts and all hardware, materials, and labor incidental thereto.

SIGN DETAIL
1:35

LEGEND NOTE: THE LEGEND NEXT TO THE US DOT LOGO SHALL BE ONE OF THE FOLLOWING BASED ON PROJECT FUNDING SOURCE;



SIGN NUMBER	80-5957
PANEL SIZE	8'-0" x 5'-0"
TOTAL AREA	40.0 Sq.Ft.
MUTCD	N/A
BDR INSET/WIDTH	0" / 0.75"
CORNER RADIUS	3"
BACKGROUND	TYPE: IX
	COLOR: Green
LEGEND/BORDER	TYPE: IX
	COLOR: White/White
* REFER TO CATALOG OF SIGNS FOR SHEETING TYPE. WHEN COLOR IS BLACK TYPE IS "PLAIN".	

SYMBOL	ROT	X	Y	WID	HT
CT DOT LOGO	0	3.5	3.5	9.21	7
US DOT LOGO	0	75.0	3.5	17.5	7

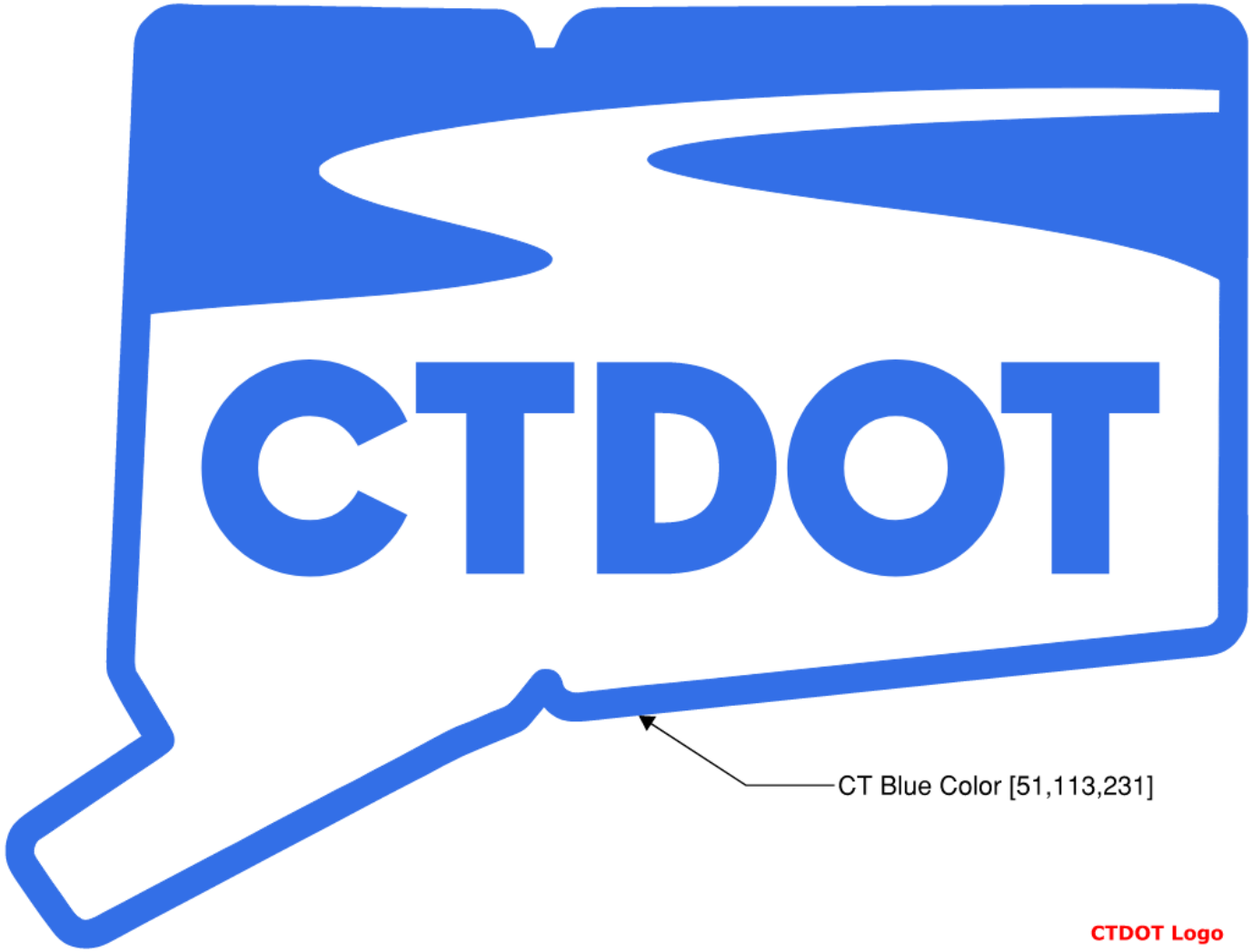
REV'D 7/24

Dimensions are In Inches
Material : 0.125" Thick Sheet Aluminum
Ground Mounted

File name: 80-5957

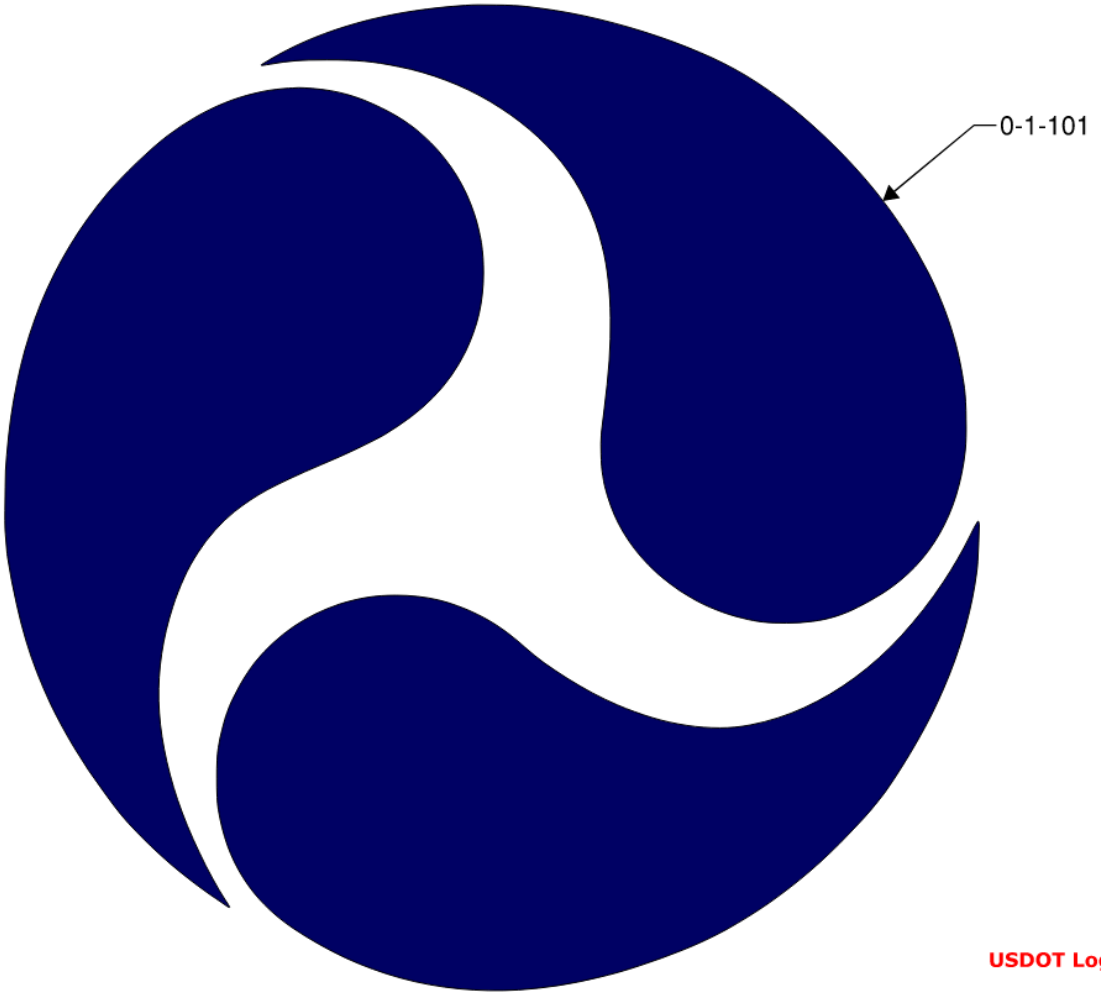
Printed: 9/13/2024

LETTER POSITIONS (X)																					LENGTH	SERIES/SIZE
P	R	O	J	E	C	T	F	U	N	D	E	D	B	Y	T	H	E					D 2000
5.8	9.9	14.1	18.3	22.7	26.5	30.6	37.7	41.5	46.1	50.7	55.2	59.2	66.6	70.4	78.7	82.6	87.2				84.5	5
B	l	p	a	r	t	l	s	a	n													
3.4	7.6	9.6	13.2	17.1	19.2	21.8	23.4	26.2	30.2													
I	n	f	r	a	s	t	r	u	c	t	u	r	e	L	a	w						D 2000
36.1	38.2	41.8	44.3	46.6	50.2	52.8	55.4	57.9	61.8	65	67.6	71.6	74	79.9	83.5	87					89.3	5/3.8
I	N	V	E	S	T	I	N	G	I	N												Arial Black
22	24.9	29.9	35.4	40	44.7	49.9	52.8	58.2	66.8	69.7											52.1	4.5
A	M	E	R	I	C	A																Arial Black
30.8	36.4	42.8	47.7	52.9	55.5	60.3															34.3	4.5



CTDOT Logo

Link to .dgn file: New_CTDOT_Logos.dgn



USDOT Logo

Link to .dgn file: USDOT_logo.dgn

ITEM #1403501A – RESET MANHOLE (SANITARY SEWER)

Description: This item shall consist of adjusting frames and covers for sanitary sewer manholes to match final grade where shown in the Plans or where directed by the Engineer.

Materials: The materials for this work shall meet the following requirements:
1. Brick for Manholes: Shall meet the requirements of M.08.02-1.
2. Mortar: Shall meet the requirements of M.11.04.
3. Granular Fill: Shall meet the requirements of the special provision for Item #0213100A – Granular Fill.

Construction Methods:
The Contractor shall excavate around the existing manhole frame and brick and mortar bed. This work shall include sawcutting, removing, and disposing of existing bituminous or Portland cement concrete where the manhole is located in pavement.

The existing frame and cover shall be removed from the existing bed, cleaned, and salvaged for reinstallation unless a new frame and cover have been specified in the Plans.

The Contractor shall reconstruct the brick and mortar bed, including adding or removing courses of brick, as necessary for the reset frame and cover to match the final grade of the surrounding surface.

The frame and cover shall be installed on the reconstructed brick and mortar bed.

The reset manhole frame, cover, and brick and mortar bed shall be backfilled with compacted granular fill to the subgrade elevation of the proposed pavement, sidewalk, or topsoiled surface treatment surrounding the manhole. Furnishing and installing the proposed surface treatment are not included in this item.

Method of Measurement: This work will be measured for payment by the actual number of each sanitary sewer manhole frame and cover reset to grade, completed, and accepted by the Engineer.

Basis of Payment: This work will be paid for at the Contract unit price per each "Reset Manhole (Sanitary Sewer)," complete in place, which price shall include all excavation, sawcutting, removal and disposal of existing pavements and surplus materials, brick, mortar, granular fill, and all equipment, tools, labor, and materials incidental thereto.

Pay Item	Pay Unit
Reset Manhole (Sanitary Sewer)	ea.

PERMITS AND/OR REQUIRED PROVISIONS:

The following Permits and/or Required Provisions follow this page and are hereby made part of this Contract.

- **PERMITS AND/OR PERMIT APPLICATIONS**

Army Corps of Engineers Self-verification	**Pending September 25, 2025**
CTDEEP Inland Wetlands General Permit	**Pending September 25, 2025**
Stormwater Pollution Control Plan (SWPCP)	**Pending September 25, 2025**

- **Construction Contracts - Required Contract Provisions (Contracts Funded by FHWA and State)**

US Army Corps of Engineers ®
New England District

Appendix E: elf-Verification Notificat on Form

This form is required for all inland projects in Connecticut, but it is not required if work is done within boundaries of Mashantucket Pequot or Mohegan Tribal Lands. At least two weeks before work commences, complete all fields (write "none" if applicable) below, send this form, Official Species List (see GC 12), documentation of THPO and SHPO notifications if applicable, site location map, project plans (not required for projects involving the installation of construction mats only) and any State or local approval(s) to:

Regulatory Division, Branch B
U.S. Army Corps of Engineers
696 Virginia Road
Concord, MA 01742-2751
or cenae-r-ct@usace.army.mil

and

CT DEEP
79 Elm Street
Hartford, CT 06106-5127
DEEP.LWRDRegulatory@ct.gov

State Permit Number: _____ Date of State Permit: _____

Permittee: Connecticut Department of Transportation
Address, City, State & Zip: 2800 Berlin Turnpike, Newington, CT 06111
Phone(s) and Email: 860-594-2928 Christine.Xenelis@ct.gov

Agent: _____
Address, City, State & Zip: _____
Phone(s) and Email: _____

Contractor: _____
Address, City, State & Zip: _____
Phone(s) and Email: _____

Project Name: State Project No. 0170-3637: Southington Rest Area Truck Parking Improvements
Project Location (provide detailed description & locus map):
Address, City, State & Zip: I-84 Eastbound between Exits 28 & 30, Southington, CT 06479
Lat. ° N, Long ° (Decimal Degrees): 41.572067, -72.904832
Waterway Name: N/A

Proposed Work Dates: Start: Spring 2026 Finish: Summer 2027

Work will be done under the following GPs (circle all that apply):

2	5	6	9	10	11	12	13	14	15	(17)	18	19	21

Area of Wetland Impacts (SF): Permanent: 0 sf Temporary: 1400 sf

Area of Waterway Impacts (SF): Permanent: 0 sf Temporary: 0 sf

TOTAL Project Impact (SF): Permanent: 0 sf Temporary: 1400 sf

Descr e the speci c work tha will be undertaken in waters and we lands: _____

Sedimentation and erosion control fencing will be placed along the NW border of the Rest Area, adjacent to the existing strip of wetland. Temporary impacts to wetlands are a result of this.

Have the THPOs and the CT SHPO been notified of the proposed work per the procedures in GC 11? If so, attach any responses received to this form.
Yes ___X___ date contacted _____No _____

Are there Federally listed endangered/threatened species, other than the northern long-eared bat, present? (see GC 12) Yes _____ No___X___

Confirm no SAVs are present or will be impacted: Yes ___X___ No_____
Applicable to GPs:

2	5	6	9	10	11	12	13	14	15	(17)	18	19	21

Confirm no unconfined work with impact to diadromous fish (see App. H): Yes ___X___ No_____
Applicable to GPs:

2	5	6	9	10	19

Confirm work complies with Stream Crossing BMPs (see App. G): Yes ___X___No_____

Applicable to GPs:

2	6	(17)	19

If GP 19 and work does not comply with Appendix G, identify date of Interagency Meeting where waiver was granted: Date of Meeting: _____N/A_____
Identify interagency participants: CT DEEP:_____ USACE:_____

Will your project include any secondary effects? (Secondary effects include, but are not limited to, non-tidal waters or wetlands drained, flooded, fragmented, or mechanically cleared resulting from a single and complete project. See Appendix F - Definitions.) If YES, describe here:
No secondary effects are anticipated

Your signature below, as permittee, indicates that you accept and agree to comply with the terms, eligibility criteria, and general conditions for Self-Verification under the Connecticut GPs.

Permittee Signature: _____ Date**:** _____

Table of Contents
USACE Self-Verification Notification Form

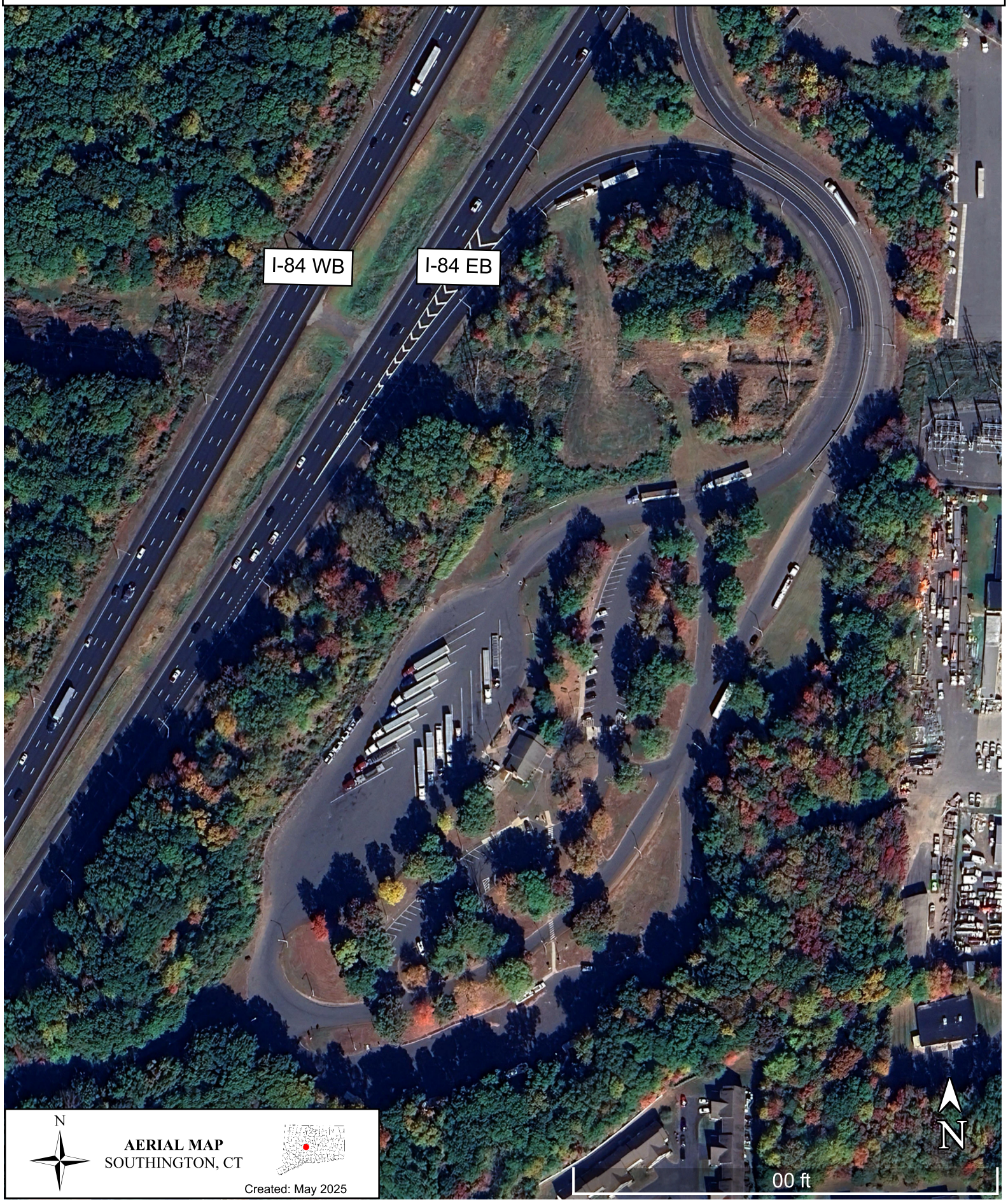
Attachments:

A: Location Map
B: Project Description
C: Permit Plans
D: Interagency Coordination Meeting Notes - April 17, 2025
E: State Historic Preservation Office (SHPO) Coordination
F: Tribal Historic Preservation Office (THPO) Coordination
G: USFWS NLAA Determination & USFWS Official Species List

ttachment Location Map

DETAILED AERIAL MAP

PROJEC NO. 0131-0211: I-84 EB BETWEEN EXITS 28 & 30
SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS



N

AERIAL MAP
SOUTHINGTON, CT

Created: May 2025

ttachment Project Description

Existing Conditions

The Southington Rest Area is on I-84 Eastbound, accessible between Interchanges 28 and 30. This Rest Area includes 18 truck parking spaces, recreational vehicle (RV)/camper parking with a sanitary dumping facility, car parking, accessible parking, a building with restroom facilities and vending space, and site amenities. On-site utilities include electric, telecommunications, sanitary sewer, and water. The average daily traffic (ADT) at this site is approximately 720 vehicles per day (vpd).

The existing West Truck Parking Lot is located on the northwest end of the site. The two Passenger Car Parking Lots are centrally located on the site, just northeast and southeast of the Rest Area building. The RV Parking Lot is in the southeast corner of the site. Per the Southington, CT Official Zoning Map (January 2024), the Southington Rest Area is in an I-2 (Industrial) Zone which includes retail, contracting, trucking, and HVAC industries. The Southington Rest Area is abutted to the south by a Residential Zone which is partially forested with some lawns. There is a forested buffer between the Rest Area and any nearby industrial or residential areas.

The wetland in which temporary impacts are proposed exists along the Northwest border of the Rest Area and was identified as CT/Federal wetlands by a registered soil scientist in the State of Connecticut. The wetland is a strip approximately 10-ft wide at its widest point and 630-ft in length. As-Built plans indicate that this strip of land was originally a manmade drainage ditch underlain by riprap. The ditch has become naturalized over time with wetland vegetation including native Dogwood (*Cornus spp.*), Viburnum, and invasive Japanese Knotweed and Mugwort. This wetland receives run-off from the adjacent parking lot.

Purpose and Need Statement

State Project 0131-0211 is proposed to add truck parking at the I-84 Eastbound Rest Area in Southington. The Southington site was identified as a potential location for truck parking improvements as part of the *Statewide Truck Parking Study* and CTDOT selected this site as a priority location to expand truck parking. The scope of work also includes site circulation and access, RV parking, drainage, stormwater management, stormwater quality, and site lighting modifications and improvements with some refinement of the original concept.

Proposed Project

The proposed East Truck Parking Lot is to be constructed in the existing grassy area to the north of the RV parking lot. Construction of this lot will create 18 new semi-truck parking spaces. Full-depth widening of the existing West Truck Parking Lot is proposed, and will result in 11 additional spaces. The RV Parking Lot will undergo a full-depth widening including adding painted parking lines. Reconstruction of the Entrance Drive is proposed, as well as three (3) bioretention basins for stormwater quality improvement. Improvements are proposed to pedestrian accommodations, site drainage, and site lighting.

The only wetland impacts anticipated as a result of this proposed work is a 1,400-sf strip along the northeast border of the West Truck Parking Lot. These impacts are temporary and are a result of the proposed double fence Sedimentation Control System (SCS) adjacent to the wetland at the limits of cut and fill for the expansion of the West Truck Parking Lot. The SCS will not be placed in the wetland but will directly abut it as the proposed temporary impacts are due to the wetland area being in the "buffer zone" of the SCS. No permanent wetland impacts are proposed, and no permanent or temporary watercourse impacts are

proposed. Invasive species control will be performed within the limits of grading and disturbance for a total of approximately 420-sy. The area will be prepared for final seeding and restoration.

WETLAND IMPACT TABLE			
AREA #	PERMANENT	TEMPORARY	TOTAL
1	0	1,400 SF (0.032 AC)	1,400 SF (0.032 AC)
2	0	0	0
TOTAL	0	**1,400 SF (0.032 AC)**	**1,400 SF (0.032 AC)**

Wetland and Environmental Resources

The project location is within the Quinnipiac River sub-regional drainage basin (#5200) of the Quinnipiac regional drainage basin (#52). The project location is not located in any FEMA flood hazard zones, according to FEMA Flood Insurance Rate Map #09003C0583F (effective date September 26, 2008) and #09003C0584G (effective date May 16, 2017). The site does not fall within any Aquifer Protection Areas (APAs) but is approximately 0.75 mi NW of the "Well 2" APA, which is a Final Adopted APA as of December 17, 2009. No impacts are anticipated to the "Well 2" APA.

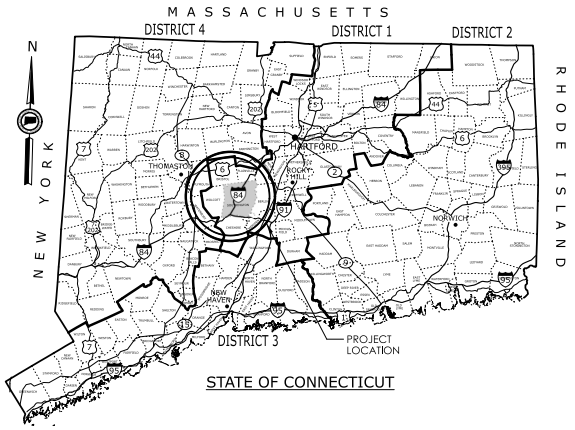
A wetland delineation for this site was performed on March 20, 2025 by EcoMaps LLC, a registered soil scientist in the State of Connecticut, which identifies a naturalized strip of CT/Federal wetlands running along the Northwest border of the Rest Area as the only wetland in the project area.

The project is located within a DEEP NDDB area per the June 2025 mapping. An NDDB determination received on April 11, 2025 indicated that no populations of State or Federally-listed species or critical habitat exist within the project limits.

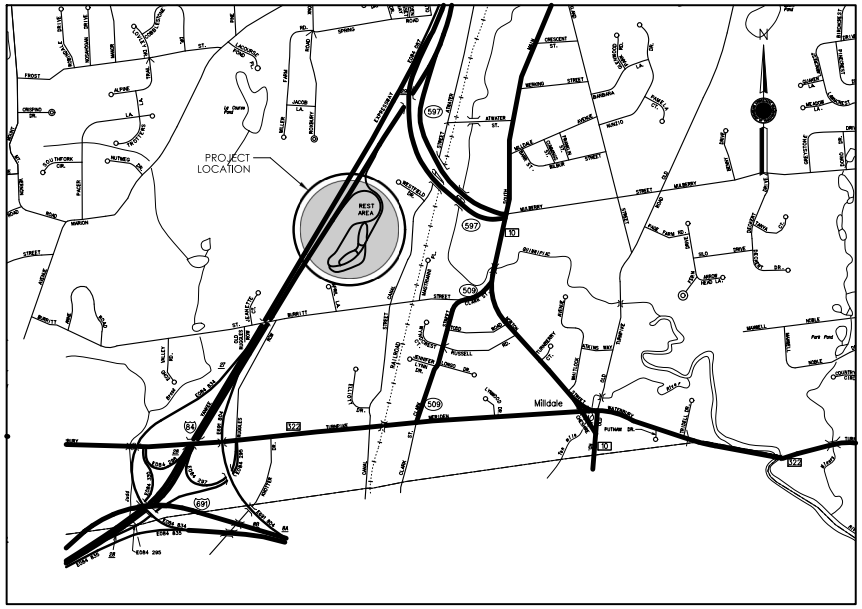
According to the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) resource, the Tricolored Bat and Monarch Butterfly may be present within the survey limits of the project. No construction activities are proposed that would be anticipated to affect these species. Proposed work was determined Not Likely to Adversely Affect (NLAA) the Federally-listed Indiana Bat (*Myotis sodalis*), Northern Long-Eared Bat (*Myotis septentrionalis*), or Tri-Colored Bat (*Perimyotis subflavus*). See Attachment G for USFWS species list and NLAA determination letter.

ttachment Permit Plans

ENVIRONMENTAL PERMIT PLANS
STATE PROJECT NO. 0131-0211
SOUTHINGTON REST AREA
TRUCK PARKING IMPROVEMENTS
I-84 EASTBOUND
TOWN OF SOUTHINGTON



STATE OF CONNECTICUT



LOCATION PLAN
SCALE: 1" = 1,000'

GENERAL NOTES:

1. THESE PLANS ARE NOT FOR CONSTRUCTION AND ARE INTENDED ONLY FOR ENVIRONMENTAL PERMITTING PURPOSES. THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA. FOR DETAILED PLANIMETRIC INFORMATION AND PAYMENT, REFER TO THE APPLICABLE CONTRACT DOCUMENTS.
2. THE DEPARTMENT OF TRANSPORTATION WILL ONLY SUBMIT REVISIONS TO CTDEEP AND USACE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.
3. FOR A DESCRIPTION OF THE WATERCOURSES, WETLANDS AND WETLAND SOILS SEE RELEVANT SECTIONS OF THE PERMIT APPLICATION.
4. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983. VERTICAL DATUM BASED ON N.A.V.D. OF 1988.
5. ALL CONSTRUCTION ACTIVITIES WILL BE CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION, FORM 819, SECTION 1.10 AND WILL ALSO FOLLOW REQUIRED BEST MANAGEMENT PRACTICES (BMPs) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CTDEEP CONNECTICUT GUIDELINES FOR SOIL EROSION (2024) AND SEDIMENT CONTROL AND THE CTDEEP CONNECTICUT STORMWATER QUALITY MANUAL (2024).

LIST OF DRAWINGS	
DRAWING NO.	DRAWING TITLE
PMT-01	TITLE SHEET
PMT-02	OVERALL SITE PLAN
PMT-03	SITE PLAN
PMT-04	WETLAND IMPACT PLAN

DESIGNED BY:
EASTON, HARBOUR & ASSOCIATES, LLP
400 CENTRAL BLVD.
ROCKY HILL, CT 06067

Digitally signed by Robert J Faulkner -- Clough Harbour & Associates LLP
Reason: I am approving this document
Date: 2025.07.07 14:52:52-04'00'

PLAN DATE: JULY 3, 2025

REV	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

SCALE AS NOTED

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: TITLE SHEET

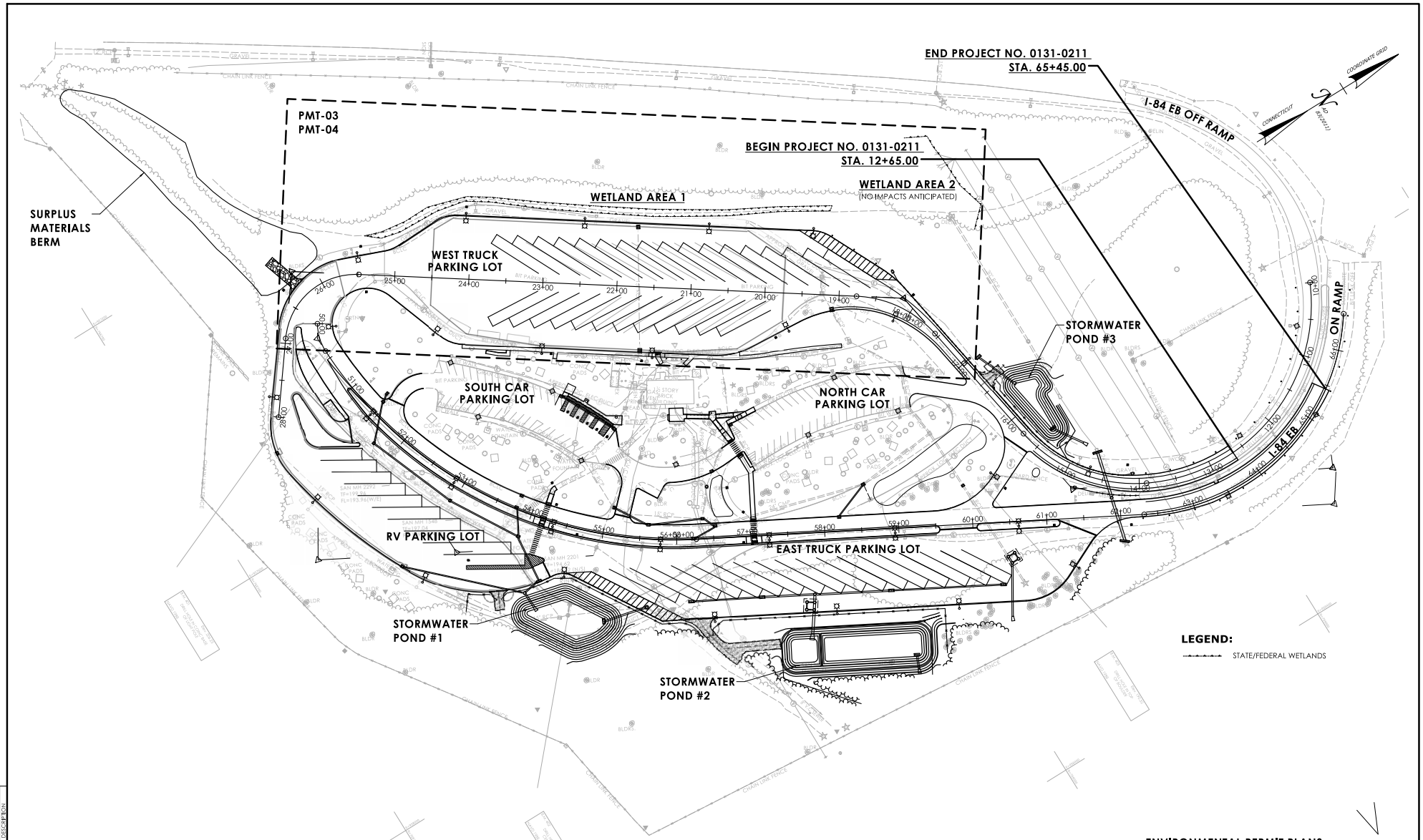
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DRAWING NO.: PMT-01

SHEET NO.:

DESIGNER/DRAFTER: PRP CHECKED BY: JSP

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PLOTTED DATE: 7/3/2025



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: JULY 3, 2025

REV	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: PRP CHECKED BY: JSP

HORIZONTAL SCALE 1" = 60'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

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TOWN(S): SOUTHINGTON

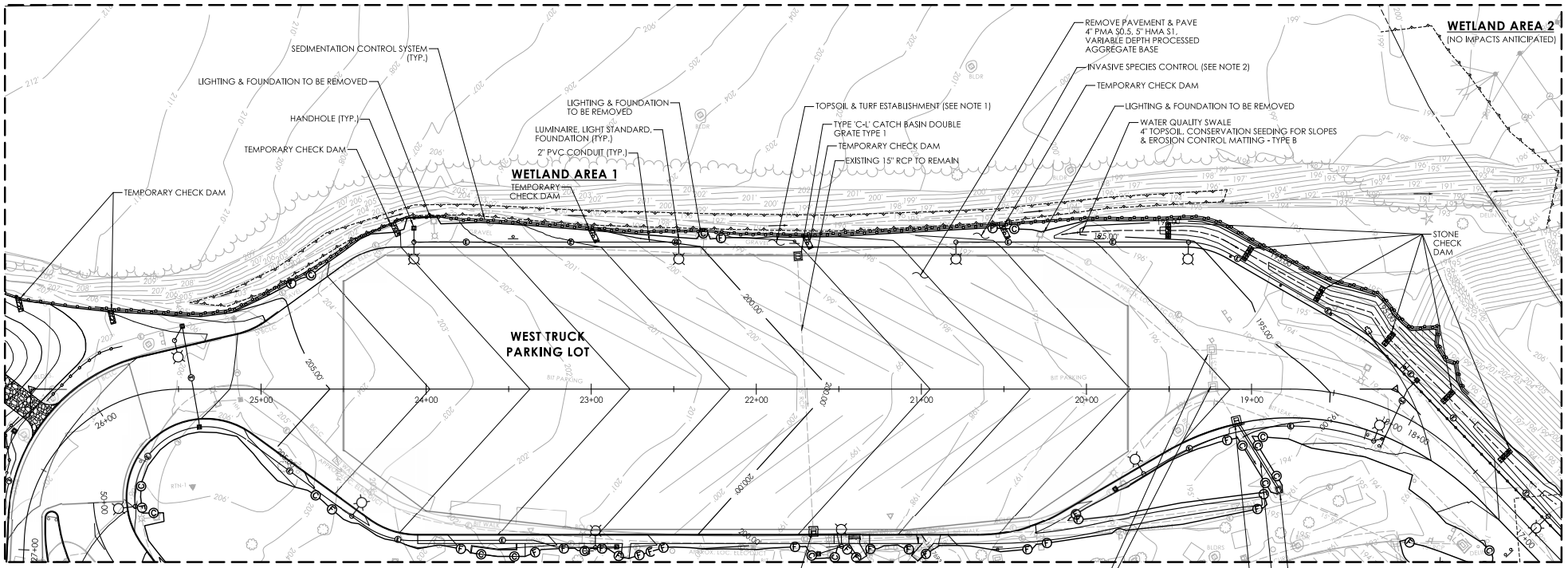
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PROJECT NO.: 0131-0211

DRAWING NO.: PMT-02

SHEET NO.:

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PLOTTED DATE: 7/3/2025



NOTES:

1. ALL GRADED SLOPES AND DISTURBED AREAS SHALL BE RESTORED WITH 4" TOPSOIL AND TURF ESTABLISHMENT UNLESS NOTED OTHERWISE.

2. INVASIVE SPECIES CONTROL SHALL BE PERFORMED WITHIN THE LIMITS OF GRADING AND DISTURBANCE BETWEEN STA. 19+00 AND STA. 25+50 RT (TOTAL QTY. 420 SY). AREA TO BE TREATED SHALL BE PROPERLY PREPARED FOR FINAL SEEDING AND RESTORATION.

3. SEDIMENTATION CONTROL SYSTEM TO BE PLACED AT ALL CATCH BASINS IN THE PROJECT AREA. A DOUBLE ROW OF SEDIMENTATION CONTROL BARRIER SHALL BE UTILIZED BETWEEN ANY DISTURBED AREA AND DOWNGRADIENT WETLAND WITHIN 50 FEET, UNLESS THERE WOULD BE ADDITIONAL WETLAND IMPACT TO ADJACENT WETLANDS DUE TO INSTALLATION OF A DOUBLE ROW.

4. ADDITIONAL EROSION CONTROL BARRIERS MAY ALSO BE REQUIRED WITHIN THE PROJECT AREA AS DIRECTED BY THE ENGINEER. FACTORS TO BE REVIEWED BY THE ENGINEER INCLUDE BUT ARE NOT LIMITED TO: THE CONTRIBUTING DISTURBED AREA, DRAINAGE AREA, LENGTH OF SLOPE, AND FLOW CONDITIONS TO MAINTAIN SHEET FLOW. IF DETERMINED TO BE NECESSARY, THE ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL AND MAINTAIN ADDITIONAL ROWS OF EROSION CONTROL BARRIER.

LEGEND:

- SEDIMENTATION CONTROL SYSTEM
- STATE/FEDERAL WETLANDS
- FLOWLINE OF SWALE

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: JULY 3, 2025

REV	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: PRP CHECKED BY: JSP

HORIZONTAL SCALE 1" = 30' (0, 30, 60)

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: SITE PLAN

PROJECT NO.: 0131-0211

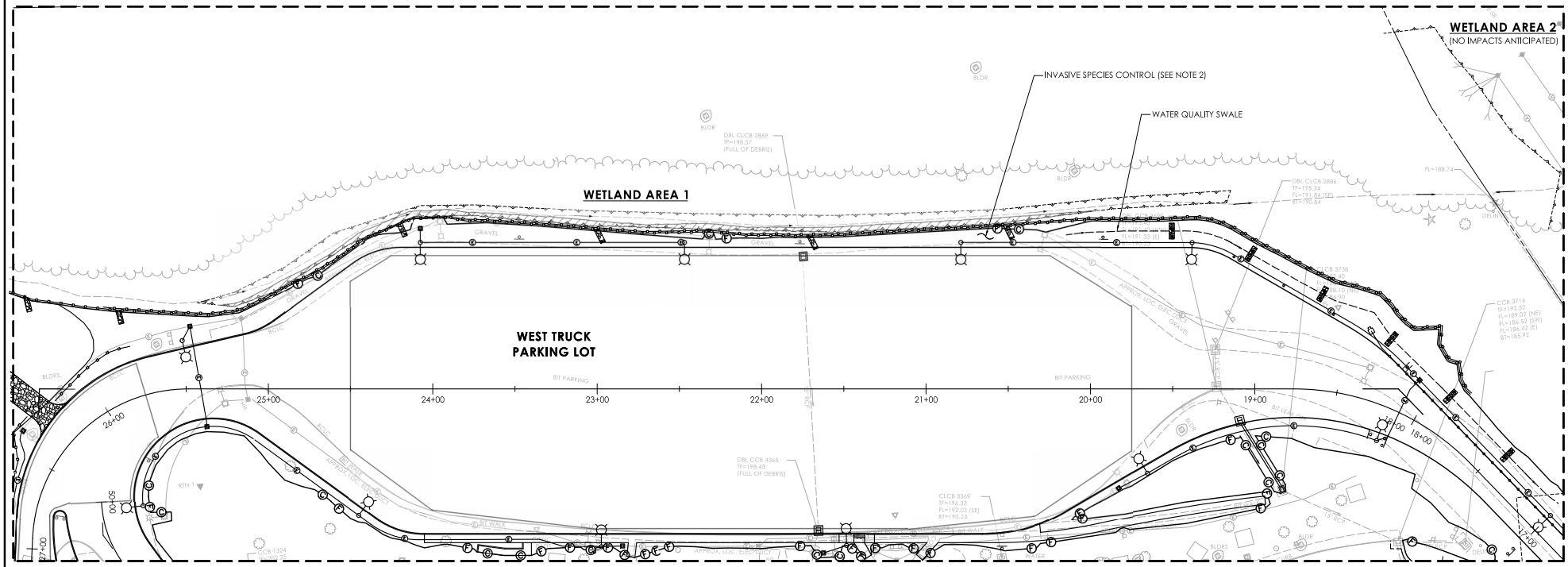
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PLOTTED DATE: 7/3/2025

WETLAND IMPACT TABLE			
AREA #	PERMANENT	TEMPORARY	TOTAL
1	0	1,400 SF (0.032 AC)	1,400 SF (0.032 AC)
2	0	0	0
TOTAL	0	1,400 SF (0.032 AC)	1,400 SF (0.032 AC)

NO WATERCOURSE IMPACT FOR THE PROJECT.



NOTES:

1. THE CONTRACTOR SHALL NOT WORK WITHIN THE LIMITS OF THE WETLANDS WITH THE EXCEPTION OF THOSE AREAS DELINEATED AS TEMPORARY OR PERMANENT IMPACTS TO THE WETLANDS. ALL DISTURBED AREAS SHALL BE RESTORED.
2. INVASIVE SPECIES CONTROL SHALL BE PERFORMED WITHIN THE LIMITS OF GRADING AND DISTURBANCE BETWEEN STA. 19+00 AND STA. 25+50 RT (TOTAL QTY. 420 SY). AREA TO BE TREATED SHALL BE PROPERLY PREPARED FOR FINAL SEEDING AND RESTORATION.
3. NO TRIMMING, CUTTING, OR REMOVAL OF TREES WITH A 3" DIAMETER AT BREAST HEIGHT (DBH) OR GREATER FROM APRIL 15 TO OCTOBER 31.

LEGEND:

- TEMPORARY IMPACT
- PERMANENT IMPACT
- STATE/FEDERAL WETLANDS
- FLOWLINE OF SWALE

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: JULY 3, 2025

NO.	REVISION DESCRIPTION	DATE	BY

SIGNATURE BLOCK:

DESIGNER/DRAFTER: PRP CHECKED BY: JSP

HORIZONTAL SCALE 1" = 30'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: WETLAND IMPACT PLAN

PROJECT NO.: 0131-0211

DRAWING NO.: PMT-04

SHEET NO.:

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PLOTTED DATE: 7/3/2025

Attachment D: Interagency Coordination Meeting Notes - April 17, 2025

PENDING

Attachment E: State Historic Preservation Office (SHPO) Coordination

PENDING

Attachment F: Tribal Historic Preservation Office (THPO) Coordination

PENDING

Attachment G: USFWS NLAA Determination & USFWS Official Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: 04/28/2025 19:53:46 UTC
Project code: 2025-0083021
Project Name: CTDOT 0170-3637

Subject: Not Likely to Adversely Affect Concurrence verification letter for the 'CTDOT 0170-3637' project under the December 13, 2024, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat, Northern Long-eared Bat, and Tricolored Bat.

To whom it may concern:

This letter records the determination of effects to federally listed (or proposed) bat species anticipated to result from the CTDOT 0170-3637 (the Project). This determination is based upon information you entered into the assisted determination key (Dkey) associated with the above referenced Programmatic Biological Opinion/Conference Opinion (PBO/PCO) in the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system on the date listed above to verify that the Project may rely on the concurrence provided in the PBO/PCO to satisfy requirements under section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (16 USC 1536), as amended.

Ensuring Accurate Determinations When Using IPaC:

The Service developed the IPaC system and this Dkey in accordance with the ESA and based on the PBO/PCO. All information submitted by the project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in the Dkey invalidates this letter. Answers to certain questions in the Dkey commit the project proponent to implementation of conservation measures that must be followed for the ESA determinations to remain valid. Carefully review this letter, your ESA requirements are <u>NOT</u> yet complete.

Determinations:

Based on the information you provided (Project Description shown below), you have determined that the Project is within the scope and adheres to the criteria of the PBO/PCO, including the

adoption of applicable avoidance and minimization measures. Based on your IPaC submission and the PBO/PCO, the Project is consistent with the following effect determinations:

Species	Listing Status	Determination
Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	NLAA

The tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can confer under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a no effect or not likely to adversely affect (NLAA) determination from the key to confirm that the determination is still accurate.

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Project does not meet the criteria for a NLAA determination under the PBO/PCO. **If the Service does <u>not</u> notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Project under the terms of the NLAA concurrence provided in the PBO/PCO**. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO/PCO.

If the Project is modified, or new information reveals that it may affect the Indiana bat, northern long-eared bat, or tricolored bat in a manner or to an extent not considered in the PBO/PCO, further review to conclude the requirements of ESA section 7(a)(2) may be required.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:

If your initial bridge, culvert, or structure assessment failed to detect Indiana bat, northern long-eared bat, or tricolored bat use or occupancy, yet bats are later detected prior to, or during construction, promptly notify the local Service Field Office within 2 working days of the discovery. In addition, please document whether incidental take occurred, and if so, the type (i.e. kill or harm) and amount (i.e. number of individuals) and submit documentation to the local Service Field Office within 5 working days from the completion of the bridge, culvert, or structure construction (use Appendix E - Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form in the User’s Guide). In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service. In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service.

If the Project may affect any other federally listed or proposed species and/or designated critical habitat, additional consultation between the lead Federal action agency and this Service Field Office is required for those species/designated critical habitat. If the Project has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please advise the lead Federal action agency to contact this Service Field Office

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened

PROJECT DESCRIPTION

The following project name and description was collected in IPaC as part of the endangered species review process.

NAME

CTDOT 0170-3637

DESCRIPTION

This project aims to expand truck parking at the existing rest area between exits 28 and 30 on I-84 eastbound in Southington, CT. The work is anticipated to include modifying existing parking areas for trucks and RVs/trailers/campers, and expanding truck and bus parking with provisions for associated drainage, stormwater management, site circulation, site access, and site utility modifications. Some tree cutting may be necessary.

Construction is anticipated to begin in December 2025.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.573225550000004,-72.90416244088365,14z



DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the Indiana bat, northern long-eared bat or tricolored bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024.

QUALIFICATION INTERVIEW

1. Which Federal Agency is the lead federal agency the action?

   A) Federal Highway Administration (FHWA)

2. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

   Automatically answered
   Yes

3. Does your project's activities include raising the road profile above the tree canopy in documented habitat for the Indiana bat, NLEB, or TCB?

   Note: For the definition of documented habitat, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

   No

4. Is your project located within a karst area?

   No

5. Will the project include bridge, culvert, or structure removal, replacement, and/or alteration activities?

   Note: For definitions of bridge, culvert, and structure, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat.

   No

6. Do your project’s activities involve tree removal/trimming, temporary lighting, new/additional permanent lighting, ground disturbance, percussives that involves noise/vibration above existing background levels, vibrations, or slash pile burning?

   Yes

7. Is there suitable summer habitat for the Indiana bat, NLEB, or TCB within the project action area?

   Note: See the Service's summer survey guidance for current definitions of suitable habitat [https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html].

   Yes

8. Have P/A surveys for the Indiana bat, NLEB, or TCB been conducted within the suitable summer habitat located within your project action area? This refers to mist-netting or acoustic surveys, not bridge assessments.

   Note: See the Service's survey guidance https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html

   No

9. Will the project involve the removal or trimming of trees within suitable habitat for the Indiana bat, NLEB, or TCB?

   Yes

10. Will any tree removal or trimming occur during the bat pup season?

    Note: For more information about bat pup seasons please visit https://www.fws.gov/sites/default/files/documents/2024-10/2024_usfws_rangewide_ibat-nleb_survey_guidelines.pdf

    No

11. Will the removal or trimming of trees occur **within documented habitat** for the Indiana bat, NLEB, or TCB?

    Note: For the definition of documented habitat, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

    No

12. Will all tree removal or trimming occur within 100 feet of the road or rail surface?

    Yes

13. Does your project include activities involving the temporary or permanent exclusion of Indiana bats, NLEBs, or TCBs from a bridge/culvert or structure?

    Note: exclusion is conducted to deny bats' entry or reentry into a bridge/culvert or structure. To be effective and to avoid harming bats, it should be done according to established standards.

    No

14. Does your project involve the use of temporary lighting within Indiana bat, NLEB, or TCB suitable habitat?

    Note: For the definition of lighting, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

    No

15. Will the project substantially increase baseline light conditions via the use of permanent lighting (replacement or new/additional) in suitable habitat.

    No

16. Will your project include percussive activities?

    Note: Refer to Stressor #2 Noise/Vibration on page 109 of the PBO/PCO.

    No

17. Will the project involve the removal or trimming of more than 20 acres of Indiana bat, NLEB, or TCB suitable habitat per 5-mile section of road/rail?

    No

18. Will the removal or trimming of trees occur within 0.5 miles of a known Indiana bat, NLEB, or TCB hibernaculum?

    No

19. Will the removal or trimming of these trees occur during the active season?

    No

20. Will the removal or trimming of trees occur **beyond 100 feet** of the existing road/rail surfaces?

    No

21. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

    Automatically answered
    Yes

PROJECT QUESTIONNAIRE

1. Have you made a No Effect determinations for all other species included on the FWS IPaC generated species list?

   Yes

2. Have you made a May Affect determination for any other species on the FWS IPaC generated list?

   No

3. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the inactive season (NLAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   1.20

4. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the active season **(outside the pup season and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

5. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the pup season **(trees must be <9 in DBH, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

6. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surface during the inactive season (LAA)? Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

7. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surfaces during the active season **(outside the pup season, and not between Dec 15-Feb 15 in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

8. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the inactive season (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

9. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the active season **(outside the pup season, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

GAMM1

Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs.

TRTAMM1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely.

TRTAMM2

Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright

colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits

TRTAMM3

Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB

Connecticut
Department of Energy & Environmental Protection
LAND & WATER RESOURCES

CPPU USE ONLY	
App #s:	
	-DIV
	-FM/E
Doc #:	
Check #:	

LWRD License Application Transmittal Form

The Land & Water Resources Division (LWRD) License Application* consists of this Transmittal Form and the program-specific form. All application forms can be found on the Department of Energy & Environmental Protection (DEEP) website at Land Use Permits and General Permits (ct.gov). Submit application forms per instructions provided in Part VII of this transmittal form.

Part I: License Type and Fee Information

The table below lists various license types issued by DEEP LWRD. If more than one license is necessary for a project, complete only one Transmittal Form. Complete as many Program Forms as applicable for the project. Check the boxes below that correspond with the LWRD license(s) being requested.

Type of Review/License	Program Form	Fee	DEEP USE ONLY
Licenses for Activities in Tidal Waters			
☐ Structures, Dredging & Fill[2]	C	$660	[#439]
☐ Structures, Dredging & Fill[2] and Tidal Wetlands (TW)	C	$660	[#1058]
☐ Structures, Dredging & Fill[2] and Section 401 Water Quality Certificate (WQC)[3]	C	$660	[#1769]
☐ Structures, Dredging & Fill[2]; TW; and Section 401 WQC[3]	C	$660	[#1772]
☐ Certificate of Permission (if applicable, WQC will be included)	D	$375	[#410]
[2] For projects larger than 825 square feet, provide Attachment A with an additional fee. Refer to the instructions (page 4) for fee calculations.			
[3] For activities requiring a Sec.404 Permit from United States Army Corps of Engineers (USACE).			
General Permit Registration for Coastal Maintenance			
☐ Marina and Mooring Field Reconfiguration	E	$700	[#992]
☐ Remedial Activities Required by Order	F	$700	[#427]
☐ Residential Modification to FEMA Standards	G	$100	[#423]
☐ Reconstruction of Permitted Structures	H	$300	[#1741]
General Permit Registration for Minor Coastal Structures			
☐ 4/40 Docks/Access Stairs	I	$700	[#426]
☐ Non-Harbor Moorings	J	$250	[#422]
General Permit Registration for Dolphin Cove			
☐ Structures, Fill, Obstructions, or Encroachments in Dolphin Cove Lagoon, Stamford	K	$100	[#420]
For Federal Actions Only:			
☐ Section 401 Water Quality Certificate (Tidal)	C	None	[#1186]
Federal Coastal Consistency – contact LWRD staff			

Part I: License Type and Fee Information (continued)

Type of License	Program Form	Fee	DEEP USE ONLY
Licenses for Activities in Non-Tidal Waters			
☐ **Section 401 Water Quality Certificate (Individual)**[3]	L	None	[#1195]
☐ **Pre-Construction Notification, USACE General Permits for CT**[3]	L	None	[#1188]
☐ **Inland Wetlands and Watercourses**[4]	L	None	[#365]
☐ **Inland Wetlands and Watercourses**[4] **and WQC**[3]	L	None	[#2225]
[3] For activities requiring a Sec.404 Permit from USACE. **Check either Individual 401 WQC *or* PCN, not both. Contact staff if you need assistance to determine which box is applicable.**			
[4] For State Agency Activities OR Activities Conducted on State Owned/Controlled Lands.			
General Permit Registration for Water Resources Construction Activities **Inland Wetlands – State agencies only** **Non-Consumptive Water Diversion – Public, municipal, and state agencies**			
☐ **Activities 1-5: Maintenance and State Property Use Plans**	M	$5,000	[#2275]
☐ **Activities 6-8: Infrastructure and State Facility Resiliency Projects**	N	$5,000	[#2276]
☐ **Activity 9: Conservation Activities**	N	$2,500	[#2277]
☑ **Activity 10: Infrastructure Projects with Interagency Coordination**	O	$2,500	[#2278]
Additional Licenses for Activities **These licenses may be combined with Tidal or Non-Tidal Waters licenses.**			
Water Diversion – Non-consumptive			
☐ Watershed < 0.5 sq. mi.	L	$2,050	[#457]
☐ Watershed ≥ 0.5 sq. mi and < 2.0 sq. mi.	L	$4,000	[#456]
☐ Watershed ≥ 2.0 sq. mi.	L	$6,250	[#455]
For State Agency Activity/Activities Receiving Funding Through a State Agency:			
☐ **Flood Management Certification**	P	None	[#1185]
☐ **Flood Management Certification with Exemption Request**	P	None	[#1185]
Fee from Attachment A, if applicable	N/A		
Total			

*For processing purposes, the terms Application and Applicant are synonymous with the terms Registration and Registrant.

In addition to applicable boxes above, check here if your application is:

- ☐ eligible for a municipal 50% discount;
- ☐ for work in tidal waters and being submitted pursuant to CGS section 22a-361(a)(2)(d) to address a violation; or
- ☑ receiving state funding including federal funding administered by the state (to help determine need for Flood Management Certification); or
- ☑ being submitted by a state agency, therefore the fee will be paid by Inter-Agency Transfer of Funds. State Agencies should submit the registration or application package without the registration/application fee.

Part II: Project and Site Information

1a. Project: Provide a brief description of project/activity/work: _____

Upgrade and expansion of the Southington Rest Area off I-84 EB between Exits 28 and 30 in Southington, CT.

1b. Site Name and Location

Name of Site: CTDOT Project No. 0131-0211

Address of Site: Southington Rest Area off I-84 EB City/Town: Southington State: CT Zip Code: 06479

Parcel Location/Tax Assessor's Reference: Map N/A Block _____ Lot _____

GPS Coordinates/Latitude and Longitude: Provide the exact location of proposed activity, in degrees/minutes/seconds or in decimal degrees: Latitude: 41.572067 Longitude: -72.904832

Parcel/Easement size: If the project is located on a parcel, indicate parcel acreage: N/A acres

If the project is located on a utility/transportation right-of-way or easement, indicate dimensions or acres: See permit plans

Part III: Applicant Information

- *If an applicant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, they must be registered with the Secretary of State. If applicable, the applicant's name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database (CONCORD) at onlineBusinessSearch (ct.gov).*
- *If an applicant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*
- *Once an authorization has been received, if there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form.*

1. Applicant/Registrant* Information

Name: Connecticut Department of Transportation

Mailing Address: 2800 Berlin Turnpike

City/Town: Newington State: CT Zip Code: 06111

Business Phone: _____ Ext.: _____

Contact Person: Christine A. Xenelis Phone: 860-594-2928 Ext: _____

E-mail Address†: Christine.Xenelis@ct.gov

†Applicant Email is **Required**. By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject application. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

☐ **If co-applicant(s), check this box and attach co-applicant information as Attachment B following this form. If work will occur on more than one property, each property owner must be a co-applicant.**

a) Applicant Type (check one):

☐ individual ☐ federal agency ☑ state agency ☐ municipality ☐ tribal

☐ business entity (if a business entity, complete i through iii below):

i) business type: ☐ corporation ☐ limited liability company ☐ limited partnership ☐ limited liability partnership ☐ statutory trust ☐ Other: _____

ii) provide Secretary of the State business ID #:_____
This information can be accessed at database (CONCORD): onlineBusinessSearch (ct.gov)

iii) ☐ check here if your business is **NOT** registered with the Secretary of State's Office.

*For processing purposes, the terms Application and Applicant are synonymous with the terms Registration and Registrant.

Part III: Applicant Information (continued)

b) Applicant's interest in property at which the proposed activity is located:

☑ site owner ☐ option holder ☐ lessee ☐ facility owner

☐ easement holder ☐ operator ☐ other (specify): _____

2. List billing contact, if different than the applicant:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Contact Person: _____ Title: _____

E-mail: _____

3. Primary contact for departmental correspondence (including an email confirmation receipt from the Central Permit Processing Unit) and inquiries if different than applicant:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Contact Person: _____ Title: _____

E-mail: _____

4. Site/Property Owner*, if different than applicant:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Contact Person: _____ Title: _____

E-mail: _____

***If the applicant is not the property owner, submit written permission from the owner as Attachment C**

5. Facility Owner, if different than applicant:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Contact Person: _____ Title: _____

E-mail: _____

6. Facility Operator, if different than applicant:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Contact Person: _____ Title: _____ E-mail: _____

Part III: Applicant Information (continued)

7. Attorney or other representative, if applicable.

Firm Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Business Phone: _____ Ext.: _____

Attorney: _____ Title: _____

E-mail: _____

8. Engineer(s), surveyor(s) and/or other consultant(s) employed or retained to assist in preparing the application and designing or constructing the activity.

Name: CHA Companies

Mailing Address: 400 Capital Blvd., Suite 301

City/Town: Rocky Hill State: CT Zip Code: 06067

Business Phone: (860) 885-1063 Ext.: _____

Contact Person: Scott Young Title: Section Manager

E-mail: SYoung@CHAsolutions.com

Service Provided: Liaison Engineering and Environmental Services

Part IV: Pre-Application Coordination

If pre-application coordination occurred, provide DEEP LWRD staff contact information:

Staff Name: Interagency Coordination Meeting Date: 4/17/2025

Part V: Supporting Documents

As applicable, check the box by the attachments listed to indicate that they have been submitted. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the applicant's name as indicated on this application form. Attach the materials below following this transmittal form.

- ☐ Attachment A Structures, Dredging and Fill fee calculation plan. **Required** for projects larger than 825 square feet Provide a plan view delineating the work area and show the computation. Refer to the instructions (page 4) for fee calculations.
- ☐ Attachment B Co-applicant information sheet (if applicable)
- ☐ Attachment C Written permission from property owner (if applicant is not the owner)
- ☐ Attachment D Additional signature sheet (if applicable)

Part VI: Applicant Certification

The applicant(s) *and* any individual(s) responsible for actually preparing the application must sign this section. An application will be considered insufficient unless *all* required signatures are provided.

"I have personally examined and am familiar with the information submitted in the LWRD application and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I certify that the LWRD application is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I certify that I have complied with all notice requirements, if applicable, as listed in Section 22a-6g of the General Statutes."

Signature of Applicant	Date
Kimberly C. Lesay	Bureau Chief, Policy and Planning
Name of Applicant (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Scott Young	
Name of Preparer (print or type)	Title (if applicable)

☐ Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet as Attachment D. You must include signatures of any person preparing any report or parts thereof required in this application (i.e., professional engineers, surveyors, soil scientists, consultants, etc.).

Part VII: Application Submission

Instructions for submitting an application to DEEP LWRD:

1. Please submit a hardcopy of **only** this completed License Application Transmittal Form and fee, to:

   CENTRAL PERMIT PROCESSING UNIT
   DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
   79 ELM STREET
   HARTFORD, CT 06106-5127

   Applications will not be processed without the fee. Fee shall be non-refundable and shall be paid by check or money order to the Connecticut Department of Energy & Environmental Protection. State Agencies should submit the applicable registration/application package ***without*** the application fee and check the box in Part I to indicate the fee will be paid by Inter-Agency Transfer of Funds.

2. Upon receipt of the Transmittal Form and fee, the Central Permit Processing Unit (CPPU) will e-mail a confirmation receipt letter to the Primary contact (Part III, #3, above) containing the DEEP assigned application number.

3. Upon receipt of the email from CPPU, electronically submit the full application package with the remaining required forms:
   a. Send an empty/blank email to DEEP.LWRDRegulatorySubmittals@ct.gov
   b. An automated email response will contain instructions for uploading this Transmittal Form and applicable Program Forms, management plans, or additional supporting documents of your application to the LWRD File Transfer Protocol (FTP) website.
   c. Follow directions contained in the email for uploading the application sections.

If you are not capable of submitting the application electronically or if you have other questions or concerns regarding application submittals, please contact LWRD staff at 860-424-3019.

Connecticut
Department of Energy & Environmental Protection
LAND & WATER RESOURCES

LWRD License Application Form O

General Permit Request for Authorization, Water Resources Construction Activities (Activity 10)

All sections of the LWRD License Application, when applicable, must be posted to the DEEP LWRD FTP site as instructed on Part VII of the LWRD Transmittal Form.

Application Number (as assigned in CPPU e-mail): _____

Applicant Name (same name used on Part III of the LWRD Transmittal Form): Connecticut Department of Transportation

Supporting Documents

Check the box by the attachments listed to indicate that they have been submitted. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment 31, etc.) and be sure to include the same applicant name used above. NOTE: Attachment numbering is NOT consecutive as the attachments relate to multiple LWRD program applications.

☒ **Attachment 20 Natural Diversity Data Base (NDDB) – Endangered or Threatened Species**
Completed NDDB Determination #: 202503455

According to the most current "Natural Diversity Data Base Areas Maps", will the activity which is the subject of this application, including all impacted areas*, be located within an area identified as, or otherwise known to be, a habitat for state listed endangered, threatened or special concern species? ☐ Yes ☐ No Date of Map: June 2025

If yes, complete and submit a Natural Diversity Data Base Review Request using the DEEP's ezFile portal (filings.deep.ct.gov/DEEPPortal/). To get started, create a user account and start a new NDDB filing. Additional information about this new filing process can be found on the NDDB website. ***All requests for review must go through the new NDDB portal*. Email deep.nddbrequest@ct.gov if you need help.**

Please note if NDDB biologist review is required, it may take 6 to 8 weeks and may require the applicant to produce additional documentation, such as ecological surveys, which must be completed prior to submitting this permit application.

A copy of the NDDB Determination response letter that has not expired *must* be submitted with this completed application as Attachment 20. Include a copy of any NDDB mitigation measures developed for this activity and approved by NDDB. Be aware that you must renew your NDDB Determination if it expires before project work commences.

* NDDB review must cover all areas of project activity, including impact and compensation areas. If your project requires compensatory mitigation and the mitigation site is in a mapped NDDB area, then an NDDB Determination must be provided for the mitigation site location(s) prior to approval of the compensatory Mitigation Plan (Attachment 17).

☒ **Attachment 31 USACE Self-Verification**, attach a copy of the USACE Self-Verification (SV) letter of authorization, SV Notification form and plans. USACE SV # _____

☐ **Attachment 32 Flood Management Certification** (FMC), if applicable, must be issued prior to submittal of this form. Attach a copy of the FMC License. FMC # _____

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A: NDDB Determination
B: USACE Self-Verification Approval

Attachment A: NDDB Determination

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

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Generated by eNDDB on:
4/11/2025

Marisa Karasik
CONNECTICUT DEPARTMENT OF TRANSPORTATION
2800 Berlin Tpke
Newington, CT 06111
marisa.karasik@ct.gov

Subject: 0170 3637
Filing # 128094
NDDB – New Determination Number: 202503455
The project area is at an existing rest area between exits 28 and 30 on I-84 eastbound. It is parallel to 204-214 Canal Street in Plantsville.
Southington

Expiration Date: 4/11/2027

Based on current data maintained by the Natural Diversity Database (NDDB) and housed in the DEEP ezFile portal, no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) are known to occur within the project area delineated for the Roadwork/Railways / Roads- Modification to existing structures, 0170 3637.

This NDDB – New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations. However, please be aware of the following limitations and conditions:

- This determination does not preclude the possibility that listed species may be encountered on site. Should this occur, a report must be submitted to the Natural Diversity Database promptly and additional action may be necessary to remain in compliance with certain state permits. Please fill out the appropriate survey form and follow the instructions for submittal.
- If your project involves preparing an Environmental Impact Assessment, this NDDB consultation and determination should not be substituted for conducting biological field surveys assessing on-site habitat and species presence.
- This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 4/11/2027.

The NDDB – New determination for the 0170 3637 at The project area is at an existing rest area between exits 28 and 30 on I-84 eastbound. It is parallel to 204-214 Canal Street in Plantsville., Southington as described in the submitted information and summarized at the end of this document is valid for two years from the date on this letter.

Natural Diversity Database information includes all information regarding listed species available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Database and accessed through the ezFile portal as it becomes available.

This letter is computer generated and carries no signature. If however, any clarification is needed, or if you have further questions, please contact the following:

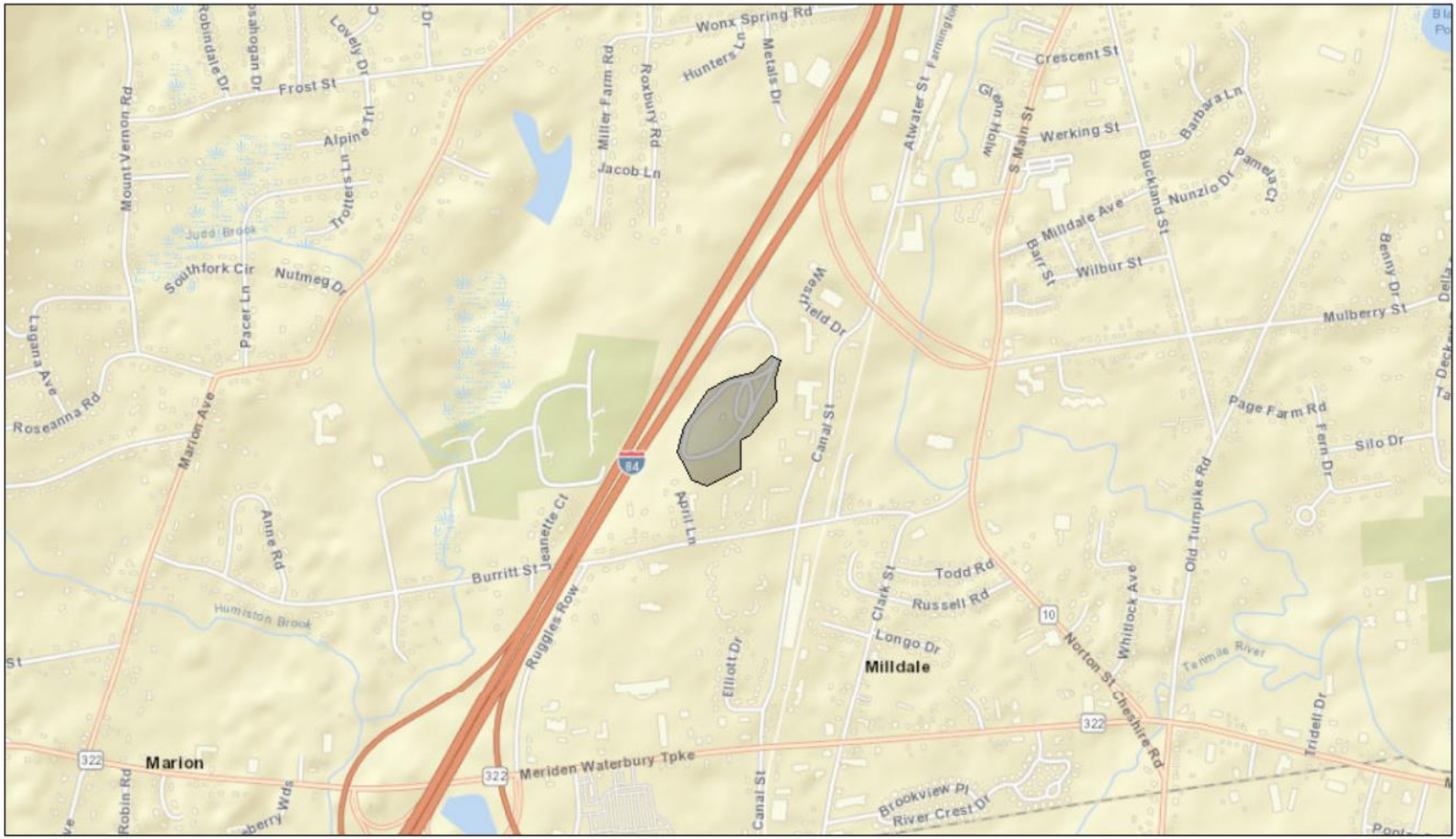
CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street, 6th floor
Hartford, CT 06106-5127
(860) 424-3011
deep.nddbrequest@ct.gov

Please reference the Determination Number provided in this letter when you e-mail or write. Thank you for submitting your project through DEEP's ezFile portal for Natural Diversity Database reviews.

Application Details:

Project involves federal funds or federal permit:	Yes
Project involves state funds, state agency action, or relates to CEPA request:	Yes
Project requires state permit, license, registration, or authorization:	Yes
DEEP enforcement action related to project:	
Project Type:	Roadwork/Railways
Project Sub-type:	Roads- Modification to existing structures
Project Name:	0170 3637
Project Description:	This project proposes to expand truck parking by modifying existing parking areas, adding more parking, and doing associated drainage, stormwater, site circulation, and site utility modifications. The project site is mostly limited to the existing rest stop area, which includes paved and landscaped areas. Approximately 1.2 acres of tree clearing are anticipated.

0170 3637 Map



April 11, 2025

1:19,195

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Attachment B: USACE Self-Verification Approval

PENDING

STORMWATER POLLUTION CONTROL PLAN
SWPCP

Southington Rest Area Truck Parking Improvements
Southington, CT

State Project No.: 0131-0211
ezFile No. 130043

Connecticut Department of Transportation

August 11, 2025

This Stormwater Pollution Control Plan (SWPCP) is prepared to comply with the requirements for the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and the Connecticut Guidelines for Soil Erosion and Sediment Control (E&S Guidelines) as amended.

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Development & Contents of Plan

The Plan shall consist of site plan drawings and a narrative. The Plan shall be prepared in accordance with sound engineering practices, and shall be consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Connecticut Stormwater Quality Manual, as amended, and any applicable requirements of the General Permit.

Site Description

Site Description

This project proposes to expand truck parking by modifying existing parking areas, adding more parking, and doing associated drainage, stormwater, site circulation, and site utility modifications. The project site is mostly limited to the existing rest stop area, which includes paved and landscaped areas. Approximately 1.2 acres of tree clearing are anticipated.

There are not discharges to impaired or coastal waters.

Project is not within an Aquifer Protection Area.

Project does not discharge to a river within the National Wild and Scenic Rivers System.

Based on an NDDB Determination received on 4/11/2025 there are no known endangered/ threatened species at the project location.

The project site is not located on a Cold Water Stream Habitat watercourse.

The purpose of this project is to add truck parking at the I-84 Eastbound Rest Area in Southington. The Southington site was identified as a potential location for truck parking improvements as part of the Statewide Truck Parking Study and CTDOT selected this site as a priority location to expand truck parking. The scope of work also includes site circulation and access, RV parking, drainage, stormwater management, stormwater quality, and site lighting modifications and improvements with some refinement of the original concept.

Site work includes the proposed East Truck Parking Lot to be constructed in the existing grassed area to the north of the RV parking lot. Construction of this lot will create 18 new semi-truck parking spaces. Full-depth widening of the existing West Truck Parking Lot is proposed, and will result in 11 additional spaces. The RV Parking Lot will undergo a full-depth widening including adding painted parking lines. Reconstruction of the Entrance Drive is proposed, as well as three (3) bioretention basins for stormwater quality improvement. Improvements are proposed to pedestrian accommodations, site drainage, and site lighting.

The site has three existing stormwater discharge points. E01 is stable with rip rap outlet protection. E02 and E03 will be fully replaced as part of this project.

Estimated Disturbed Area

The total area for this project site is 28.8 acres. Of this area, 11.04 acres will be disturbed by construction activities regardless of phasing.

Estimated Runoff Coefficient

The runoff coefficient assumed for pavement is 0.9 and for gravel roads is 0.85. For the wooded pervious areas, a coefficient of 0.4 was assumed. For the grassed pervious areas, a coefficient of 0.3 was assumed.

Pre-Construction

$$\frac{(10.56 \text{ ac.} \times 0.9)+(12.03 \text{ ac.} \times 0.3)+(20.56 \text{ ac.} \times 0.4)+(0.51 \text{ ac.} \times 0.85}{10.56 \text{ ac.} + 12.03 \text{ ac.} + 20.56 \text{ ac.} + 0.51 \text{ ac.}} = 0.50$$

Post-Construction

$$\frac{(12.55 \text{ ac.} \times 0.9)+(11.05 \text{ ac.} \times 0.3)+(19.86 \text{ ac.} \times 0.4)+(0.16 \text{ ac.} \times 0.85}{12.55 \text{ ac.} + 11.05 \text{ ac.} + 19.86 \text{ ac.} + 0.16 \text{ ac.}} = 0.52$$

Receiving Waters

The name of the receiving water course is a tributary of the Quinnipiac River which drains to The Quinnipiac River.

Extent of Wetlands on Site

There are approximately 0.12 acres of wetlands located on site. There is no regulated floodplain/ floodway present at the project location.

Construction Sequencing

The Contractor will be given from approximately Spring 2026 – Summer 2027 for the construction of all phases of the project, which shall be revised as necessary to keep the Plan current.

The suggested sequence of construction consists of three primary stages with substages, defined as follows:

Stage 1 – Accessible Parking Improvements and East Truck Parking Lot Construction

1A – Temporary Accessible Parking Improvements in the North Car Parking Lot

- Accommodate space on-site for contractor staging of materials and equipment.
- Install erosion and sedimentation control measures for the stage 1 work areas and any downgradient areas.
- Clear trees from within the stage 1 work areas and other work areas to avoid clearing during time-of-year restrictions. Grub the stage 1 work areas.

- Construct the concrete sidewalk improvements adjacent to the rest area building and north car parking lot.

1B – Accessible Parking Improvements in the South Car Parking Lot and East Truck Parking Lot Construction

- Construct the accessible parking and associated concrete sidewalk ramp improvements in the south car parking lot.
- Construct stormwater pond #1 and stormwater pond #2 and grade work areas to drain to ponds for stormwater treatment during construction. Pond #1 and pond #2 to serve as temporary sediment traps providing a minimum of 134 cubic yards of storage for each acre of disturbed area tributary to each pond, not to exceed five acres. Install erosion control measures as directed by the engineer to provide temporary diversion to the ponds as needed during this stage.
- Install proposed drainage structures and pipes in the stage 1 work area.
- Construct the east truck parking lot and raised islands (to the limits shown on the plan).

Stage 2 – West Truck Parking Lot, Entrance Roadway, and Circulatory Roadway Construction

2A – Entrance Roadway, West Side of West Truck Parking Lot, and North End of Circulatory Roadway Construction

- Install erosion and sedimentation control measures for the stage 2 work area and any downgradient areas. Maintain erosion and sedimentation control measures installed under stage 1.
- Construct stormwater pond #3 and water quality swale. Grade stage 2A work area in west lot to drain to swale and pond #3 for stormwater treatment. Pond #3 to be used as temporary sediment trap providing a minimum of 134 cubic yards of storage for each acre of disturbed area tributary to pond, not to exceed five acres. Install erosion control measures as directed by the Engineer to provide temporary diversion to the swale and pond as needed during this stage.
- Install the drainage structures and pipes in the stage 2A work areas.
- Construct the west side of the west truck parking lot.
- Construct the circulatory roadway improvements north of the south car parking lot egress, including new egress driveway just north of the south car parking lot.

2B – East Side of West Truck Parking Lot, South End of Circulatory Roadway Construction

- Install temporary protective fence and temporary traffic barrier as required to separate the stage 2B work areas from the rest area operations and patrons.
- Install drainage improvements in the stage 2B work area.
- Construct the east side of the west truck parking lot.
- Construct the recirculation roadway and entrance roadway tie-in to the existing ramp.
- Construct the remaining section of the raised island and circulatory roadway improvements.

Stage 3 – RV Parking Lot Construction, Final Paving, Restoration, Signing, and Pavement Markings

3A – RV Parking Lot Construction

- Install erosion and sedimentation control measures for the stage 3 work area and any downgradient areas. Maintain erosion and sedimentation control measures installed under stages 1 and 2. During construction, grade the rv parking lot to drain to pond #1 for stormwater treatment. Install erosion control measures as directed by the engineer to provide temporary diversion to pond #1 as needed during this stage.
- Install the remaining drainage improvements in the stage 3 work areas.

- Construct the rv parking lot and associated raised islands.
- Construct the north car parking lot tie-in to the entrance roadway.

3B – Final Paving, Site Restoration, Signing, and Pavement Markings

- Construct the rv parking lot and associated raised islands.
- Install chain link fence, gates, and metal beam rail.
- Complete milling and final paving.
- Complete placement of topsoil and surface treatments.
- Restore all other areas disturbed by construction.
- Once site is stabilized, remove all erosion and sedimentation controls.

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from areas of the site that are either undisturbed or have undergone final stabilization.

If the areas of disturbance have a contributing drainage area that contains 2-5 acres of disturbed soils per discharge point, a temporary sedimentation trap must be provided. The Contractor must submit to the Qualified Inspector a revised SWPCP for review and approval. Two stages of contract work are anticipated to disturb over 2 acres but less than 3 acres and will require a Temporary Sediment Trap. The construction of Stormwater Pond #1 and #2 are proposed to initially function as temporary sediment traps until the disturbed area is less than 2 acres for permanent stabilization.

If the areas of disturbance have a contributing drainage area that contains greater than five acres of disturbed soils per discharge point, a temporary engineered sedimentation basin must be provided. The Contractor must submit to the Qualified Inspector a revised SWPCP for review and approval. The SWPCP must include locations of the temporary engineered sedimentation basin designed and installed in accordance with the E&S Guidelines, as amended. The Contractor shall provide an inspection and maintenance plan for the engineered sedimentation basin as part for the amended SWPCP.

Control Measures

Soil erosion and sediment control for the project will follow the Connecticut Guidelines for Soil Erosion and Sediment Control (SESC) Guidelines. The project will utilize multiple structural control measures for soil erosion and sediment control. The project will also implement stormwater management BMP's to convey, treat and manage stormwater flows to minimize the discharge of pollutants from the site. The individual controls as installed will divert flows, temporarily store flows, control offsite discharges, and minimize the transport of sediment and other pollutants from the site to adjacent waterways.

The following is a summary list of structural erosion control measures and devices that will be applied in the project.

- Temporary Measures
    - Inlet Protection (Sedimentation Control System At Catch Basin)
    - Temporary Construction Entrance (Anti-Tracking Pad)
    - Siltation Barriers (Sedimentation Control System)
    - Concrete Washout Areas

    - Temporary Check Dams
- Permanent Measures
    - Catch Basin Sumps (Two Feet)
    - Stormwater Ponds
    - Hydrodynamic Separator
    - Water Quality Swale with Stone Check Dams

The location of these features is shown on the project design plans. Limits of temporary control measures shown on the design plans are required to be installed prior to the initiation of land disturbing activities. The temporary control measures may not be removed until the upgradient disturbed land areas have achieved permanent stabilization.

The inspection, maintenance, and specifics of each measure are further described in the following sections of this SWPCP. The maintenance and repair of structural measures will be accomplished with adequate supplies of materials including siltation fence, haybales, and stone to be stored onsite for immediate repair when required.

Stabilization of disturbed land will be implemented within the General Permit Required time frames and procedures for permanent and temporary stabilization. Where construction activities are complete to final grades permanent stabilization will be implemented. Areas that are to be inactive for 14 days will receive temporary stabilization measures. In all cases stabilization of disturbed land shall be completed as quickly as possible.

Impaired Waters

There is no new Discharge to Impaired Waters for the project.

Erosion and Sedimentation Controls

The Department of Transportation (Department) will have a Qualified Inspector assigned to the project to oversee the Contractor's operations and to ensure compliance with the provisions of the Contract. Further Department oversight is provided by the District 1 Environmental Coordinator and the Office of Environmental Planning.

The following timelines will be followed for the proposed construction activities:

- The Contractor shall stabilize disturbed areas with temporary or permanent measures as quickly as possible after the land is disturbed.

- Areas that remain disturbed but inactive for at least 14 days shall receive temporary seeding or soil protection within seven (7) days.

- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.

- If construction activities are completed to final grade, permanent stabilization measures shall take place within seven (7) days.

The Department projects are required to have Preconstruction Meetings with the Contractor. The Contractor is required to review and understand the Contract Plans and Specifications as well as to develop an E&S Plan for review and approval by the Engineer. The Contractor's E&S plan shall demonstrate compliance with the Stormwater Permit requirement for a double row of sediment control barriers at all disturbed locations.

Double Row of Erosion and Sediment Control Barriers

- A double row of sediment control barrier shall be utilized between any disturbed area and downgradient wetland or watercourse within 50 feet, unless there would be an adverse impact to adjacent wetlands/watercourses due to installation of a double row (i.e., would result in larger wetland/watercourse impact.)
- Additional erosion control barriers (double row of SCS) may also be required within the project area. Factors to be reviewed by the Engineer include but are not limited to: the contributing disturbed area, drainage area, slope, length of slope, and flow conditions to maintain sheet flow. If determined necessary, the Engineer will direct the Contractor to install and maintain additional rows of erosion control barrier (or equivalent).

Soil Stabilization and Protection

Project work is divided into discrete stages as shown on plans. The stages are described in the section Construction Sequencing. Disturbed areas will be managed by phase to maintain the minimum disturbed area of site while maintain operations of the existing Rest Area. Designated areas will be used for soil stockpiles.

General Permit requirements for the temporary and permanent stabilization of the site and portions thereof will be performed. Stabilization of pervious surfaces will be achieved by turf establishment with topsoil placement and seeding. Temporary measures will include erosion control matting and temporary seeding where required.

Temporary Stabilization Practices

Temporary or permanent vegetation or other ground cover shall be maintained at all times in all areas of the site, except those undergoing active disturbance.

- Erosion Control Matting: On slopes steeper than 2:1 erosion control matting shall be used to stabilize the topsoil or as necessary and directed by the Qualified Inspector. ECM type shall be disclosed and selected from the Department's Qualified Products List, as amended.

- Sedimentation Control System (SCS): SCS shall be placed at the toe of the slope or as directed by the Qualified Inspector.

- Anti-Tracking Pads: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access/exit points to off-road route. Access road(s) should grade away from the main roadway or waterbody.

- Dust Control: Routine sweeping and application of dust suppression agents, including but not limited to, water and calcium chloride, over exposed subbase shall be completed for

dust control. Additional measures may be necessary to minimize dust within the project limits and within staging and stockpile areas.

- Temporary Seeding: Areas that will remain disturbed but inactive for at least 14 calendar days shall receive temporary seeding or soil protection within 7 days.

- Catch Basin Inlet Protection: Catch basin inlet protection shall be used to reduce the amount of sediment entering the storm drainage system during construction.

Stabilization practices shall be implemented after completion, as final grades are reached, within seven (7) days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 14 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may elect to utilize other controls in conformance with the E&S Guidelines as amended, as approved by the Qualified Inspector. The Contractor will be required to provide the necessary details for any erosion controls not specifically called for on the project plans.

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once a week and within 24 hours of the end of a storm that generates a discharge. For storms that end on a weekend, holiday, or other time in which normal working hours will not commence within 24 hours, an inspection is required within 24 hours following any storm in which 0.5 inches or greater of rain occurs. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Permanent Stabilization Practices

During construction, the following methods of permanent stabilization shall be installed:

- Topsoiling: Once final grades have been established, topsoil shall be applied to provide a suitable growth medium for vegetation, if required.

- Permanent Stabilization: Once soils have been brought to final grade; permanent stabilization shall be used to stabilize the soil with a vegetative cover or, with crushed stone for slope protection or riprap, shall be applied, if required. Disturbed areas below the wetland limit shall be seeded with the appropriate seed mix. The Qualified Inspector will verify compliance with this requirement on the Notice of Termination Form: Non-Solar Projects.

All new embankments and unpaved areas that are graded or disturbed by construction will receive erosion control matting, topsoil and/or seed establishment. The Contractor may use other permanent stabilization practices that have been accepted by the Qualified Inspector or CTDOT that are in conformance to the E&S Guidelines.

Structural Measures

The project proposes structural measures identified in the control measures of this section to divert and store stormwater flows. Runoff limitation and pollutant discharge are achieved by the proposed structural BMP's including stormwater ponds, a water quality swale, and hydrodynamic separators.

Maintenance

A long-term Operation and Maintenance Plan, which identifies required inspection and maintenance activities for structural stormwater BMPs will be included in the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

All construction activities and related activities shall conform to the requirements of Section 1.10 "Environmental Compliance" of the Department's Standard Specifications. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water body, and conduit carrying stormwater. The Contractor shall limit, in so far as possible, the surface area of earthen materials exposed by construction activity and immediately provide temporary and permanent pollution control to prevent soil erosion and contamination on the site. Water pollution control provisions and Required Best Management Practices per Section 1.10, Environmental Compliance of the Standard Specifications shall be administered during construction. Control measures shall be inspected and maintained in accordance with the E&S Guidelines and as directed by the Qualified Inspector.

Dewatering Wastewaters

Dewatering Guidelines

When dewatering is necessary, pumps used shall not be allowed to discharge directly into a wetland, watercourse, or stormwater drainage system. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used on site. Written approval must be obtained from the Engineer for methods and devices, including, but not limited to, the pumping of water into a temporary sedimentation basin, providing surge protection at the inlet or outlet of pumps, floating the intake of a pump, or any other method for minimizing and retaining the suspended solids. If the Qualified Inspector determines that a pumping operation is causing turbidity problems, the Contractor shall halt said operation until a means of controlling the turbidity is submitted by the Contractor in writing to the Engineer. Once written acceptance is received from the Engineer with the concurrence of CTDOT, the Contractor may implement the turbidity control measures.

No discharge of dewatering wastewater shall contain or cause a visible oil sheen, floating solids or foaming in the receiving water. If required, all activities are to be performed in compliance with the Department's Standard Specifications.

Dewatering is anticipated to be accomplished for storm drainage pipe trenching by use a sump collection and discharge to a temporary dewatering area or sediment bag.

Post-Construction Stormwater Management

The following items are post-construction stormwater management measures proposed by the project.

- Minimal Curbing: Curbing shall be avoided wherever possible to maximize overland sheet flow and encourage infiltration.

- Outlet Protection: Riprap outlet protection is used at the proposed outlet to decrease velocity and the potential for erosion. All proposed outlets have a Type 1 preformed scour hole of Type C rip-rap apron.

- Catch Basins: Catch basins are used throughout the project to collect and convey stormwater flows to project BMP's. The catch basins will collect surface flows on impervious surfaces to intercept pollutants and debris.

- MS4 Measures: r Refer to the completed CTDOT MS4 Maximum Extent Possible (MEP) sheet in Appendix D of the Plan for permanent post construction water quality BMP's. These measures include:

    - Stormwater Ponds –#1 and #3 are wet ponds
    - Hydrodynamic Separators
    - Water Quality Swale

Post-Construction Guidelines

After the project is complete, the Department will perform the following maintenance and restorative measures:

- Litter/debris and sweepings will be removed from the site, as needed.
- Mowing and maintenance of the seeded areas and vegetated areas will occur, as needed.
- Riprap outlet protection will be inspected and cleaned, as needed.
- Stormwater drainage system will be cleaned of sediment/debris, as needed.
- Identify, inspect, and maintain all stormwater quality BMPs included within the project, as per the MS4 or manufacturer recommendations.
    - Stormwater Ponds
    - Hydrodynamic Separators
    - Water Quality Swale

Post Construction Performance Standards and Control Measure

Redevelopment:

In order to comply with the Department's MS4 Permit requirements. projects shall seek to reduce the effective impervious cover (as defined in the Construction Stormwater General Permit effective 12/31/20; modification date 11/25/22 Permit) to the maximum extent practicable.
The following is a description of how the project will comply with the 2024 Stormwater Quality Manual (SWQ) Manual Performance Standards for the General Permit for the Discharge of Stormwater

Standard 1 – Runoff Volume and Pollutant Reduction, of the SWQ manual is intended to

The preconstruction DCIA of the project is less than 40% for redevelopment and accordingly the required retention volume is 100% of water quality volume. The water quality volume is computed per the SWQ manual as calculated from the following equation.

WQV=(P*R*I)/12

where,

P = 1.3 Inches
R = Volumetric Runoff Coefficient = 0.05 + 0.009 (I)
I = Post Development Impervious Area (percent)
A = Drainage Area (Acres)

For the project site the following results are obtained,

WQV = (1.3) (0.262) (28.8) / 12 = 0.818 Ac-Ft

The computed water quality volume of 0.818 Ac-Ft or 35,662 cubic feet. The project is unable to retain the WQV onsite due to shallow ground water and rock. Due to the shallow ground water depths the project will utilize wet ponds in two locations for treatment of stormwater runoff. Additionally, the project will treat stormwater flows with the proposed hydrodynamic separators sized for the WQF. The proposed stormwater wet ponds are designed to treat the Water Quality Volume tributary to each pond. With the proposed treatment measure the project will treat without retention to the Maximum Extent Practical up to the WQV.

The proposed project will add 82,297 square feet if impervious area for the proposed parking lot expansion. Through the proposed BMP's a reduction of the effective impervious cover of 1.05 acres is provided. Refer to Appendix D for the CT DOT MS4 MEP Design worksheet for the disconnection credits associated with the proposed stormwater ponds, hydrodynamic separators, and water quality swale.

Runoff Volume and Pollutant Reduction
The objective of standard 2 is to maintain pre-development peak runoff rates and manage the volume and timing of runoff to prevent downstream flooding, channel erosion and other adverse impacts. Control the 2 Year Post Development Peak Flow Rate to 50% of predevelopment rate. Control the 10 Year Post Development Peak Flow Rate to Pre

Development Rate.

The project has been designed to meet Standard 2 of the SWQ manual through the use of stormwater ponds in three locations onsite to attenuate peak flows and maintain stormwater discharges below the pre-development condition. The final stormwater discharge point of the site was evaluated in the pre and post construction conditions. Both the peak flows and volume of stormwater discharge are reduced in the post construction condition.

For the 2 through the 100 year storm the peak flows at the site discharge point in cubic feet per second are summarized in the following table.

Storm Event	Existing, Flow (CFS)	Proposed Flow (CFS)	Peak Runoff Comparison
2 Year	37.87	24.8	(-) 12.99
5 Year	56.25	40.28	(-) 15.97
10 Year	72.05	55.7	(-) 16.35
25 Year	94.01	77.55	(-) 16.46
50 Year	110.52	94.32	(-) 16.2
100 Year	127.95	116.67	(-) 16.28

Through treatment of stormwater flows to the Maximum Extent Practical and reduction in the peak stormwater discharge flowrate the site has been designed to meet the permit runoff volume requirements.

Other Development:

Runoff Reduction and LID Practices

The project incorporates runoff reduction and a descrease of effective impervious area through disconnection of impervious areas with stormwater BMP's. Due to shallow groundwater and rock depths, infiltration of stormwater runoff is not feasible at the site.

A summary of the depth to groundwater and rock encountered in soil borings located at the project BMPS is provided in the table below.

Stormwater BMP	Ground Water Depth Below Grade	Rock Depth Below Grade	Borings
Pond #1	4.5'	>9'	R-6, R-7
Pond #2	1.4' to 1.9'	3.5' to 5'	R-8 to R-11
Pond #3	4.9'	5.3'	R-14
Grassed Swale	3.2' to 4.4'	4.4' to 4.7	R-12, R-13

The groundwater levels were measured in observation wells installed for Stormwater Ponds #1 and #3. The values reported for Pond #2 were monitored for two days post installation of the observation wells. The water level remained constant over a 48 hour period for observation wells at boring R-8/OW-8 and R-10/OW-10. No infiltration test was completed as all water levels observed were equal to or less than 2' from a proposed infiltration BMP.

As identified in Table 2 the shallow depth to rock and groundwater in the BMP locations do not provide the opportunity onsite for infiltration of the WQV. Alternate locations of BMP's were considered but not found practical or achievable. The proposed BMP locations are the only suitable locations on the site to collect stormwater runoff at downgradient positions from the existing stormwater piping network onsite being modified by the project. As described previously to meet Standard #1 the treatment without retention of the WQV to the Maximum Extent Achievable is proposed.

The stormwater management design for the project maintains a reduction in the peak flow rate discharged from the site in the 2 through 100-year storm events. The stormwater ponds provided a reduction in the volume of stormwater from the site due to project development. The reduction in the volume of water in Acre-Feet is summarized in the following table.

Storm Event	Existing, Flow (Ac-Ft)	Proposed Flow (Ac-Ft)	Volume Comparison
2 Year	5.337	5.249	(-) 0.088
5 Year	8.188	8.078	(-) 0.11
10 Year	10.697	10.565	(-) 0.132
25 Year	14.241	14.072	(-) 0.169
50 Year	16.932	16.741	(-) 0.191
100 Year	19.898	19.684	(-) 0.214

Water Quality Swale Maintenance

The water quality swale and surrounding area should be inspected regularly for failures as necessary for newly formed channels or erosion rills. Areas lacking vegetative cover or with thinning cover should be repaired by reseeding or installation of sod depending on severity of damage. Side slope and channel bottom vegetation should not be cut short below the design flow level of the swale, typically 3 inches or more. Mow height should be adjusted based on swale performance but maintained initially for a 6" stand of vegetation.

Deposition of sediment, trash, leaves and/or accumulated material should be monitored. Woody or other undesirable vegetation should be controlled to maintain the cross-sectional flow area of the swale. Check dam integrity should be monitored and dislodged or deformed stone check dams repaired as soon as practical.

Hydrodynamic Separator Maintenance

The Hydrodynamic separator BMP should be subject to routine maintenance as well as long-term maintenance. Annual maintenance should include a comprehensive inspection and include the following:

- Regular Maintenance as recommended by manufacturer.
- Assess System Performance with Pollutant Capture through sediment sampling
- Perform any necessary repairs to structural elements and replacement of damaged components or parts per manufacturer guidelines
- Logging of all inspections and updates to maintenance records.

Regular maintenance should include removal of sediments at 50% of storage capacity and the removal oil/hydrocarbons and accumulated floatable material by appropriate methods.

Additionally, the HDS should be inspected for the condition of baffles screens, vortex chambers, deflector plates, for degradation and component wear. Regular maintenance should also include cleaning of the inside of the chamber by pressure washing to remove any collected materials not able to be vacuumed out or otherwise removed to maintain internal flow in the structure.

Stormwater Wet Pond Maintenance

The storm water ponds should be inspected after every major storm to ensure proper performance and drainage. Thereafter, the basin should be inspected at least once every six months. Inspections should include verification that the pond is slowly emptying through the gravel filter for a short time (12-24 hours) after a storm. The emergency overflow structures should be inspected for debris blockage. Collected sediments should be removed from the wet pond should be disposed of in accordance with CT DEEP and applicable regulations.

Suspended Solids and Floatable Removal

The Project BMP's are designed to minimize the discharge of suspended solids and floatables (e.g., oil and grease, other floatable liquids, floatable solids, trash, etc.) The project includes treatment measures including three stormwater ponds, two hydrodynamic separators as well as a water quality swale. All new catch basins have a standard 2' deep sump. The project has been designed in accordance with the Stormwater Quality Manual Standard 1 for Pollutant Reduction.

Water quality Volume (WQV) and Water Quality Flow (WQF) calculations for the stormwater pond BMPs, the Hydro-dynamic separator, and water quality swale BMP's can be found in appendix B.

Velocity Dissipation:

Project storm drain outfalls are provided with Type 1 preformed scour holes and Type C rip rap aprons. All outfall rip-rap was sized using equation 11.35 from the CT DOT Drainage Manual where rip-rap size is determined in the following equation,

$$d50 = (0.0125R_p^2/TW)(Q/R_p^{2.5})^{1.33}$$

Where, d50 = Median Rip-Rap Stone Size (ft)
Rp = Max Inside Pipe Diameter (ft)
TW = Pipe Tailwater Height (ft)
Q =

	Station	Offset	Pipe Size	Rp (ft)	Q (cfs)	V (ft/s)	TW (ft)	d50 (ft)
Pond #1	54+38.24	117.56 RT	24	2	6.78	7.33	0.72	0.07
Pond#2 In	57+76.03	148.44 RT	36	3	15.14	8.45	0.94	0.10
Pond #2 Out	59+77.52	203.18 RT	24	2	2.99	8.95	0.56	0.04
Sub-Basin #4	60+48.1	139.11	24	2	15.51	6.7	1.38	0.09

Out	5	RT						
Pond #3 In	16+27.90	28.23 RT	21	1.75	4.7	7.08	0.56	0.07
Pond #3 Out	14+80.74	33.83 RT	24	2	4.51	5.79	0.6	0.06

Other Controls (Non-Structural)

Waste Disposal

Construction site waste shall be properly managed and disposed of during the entire construction period.

The following is applicable:

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overfilling.
- Spills shall be cleaned up immediately.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as approved by the Qualified Inspector.

Washout Areas

Washout of applicators, containers, vehicles, and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete wash water will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least 50 feet from any stream, wetland or other sensitive water or natural resources as determined or designated by the Department's Office of Environmental Planning or the project's Qualified Inspector.

Washout Area(s) will be site located by the Contractor, approved by the Qualified Inspector and the SWPCP revised, as appropriate. The "Concrete Washout Area" detail *Concrete Washout Detail* shows the recommended method of construction for the washout area. The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt.

Anti-tracking Pads and Dust Control

(Form 819- Sections 2.11, 9.39, 9.42, and 9.43)

Off –site vehicle tracking of sediments and the generation of dust shall be minimized. Temporary anti-tracking pads from the active work site to the existing pavement will be installed and maintained at the locations shown on the plans.

The Contractor shall:

- Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces.
- Provide periodic top dressing with additional stone or additional length as conditions demand.
- Repair any measures used to trap sediment, as needed.
- Immediately remove all sediment spilled, dropped, washed, or tracked onto paved surfaces.
- Ensure roads adjacent to a construction site are left clean at the end of each day.

If the construction entrance is being properly maintained and the action of a vehicle traveling over the stone pad is not sufficient to remove the majority of the sediment, then the contractor shall either:

- Increase the length of the construction entrance,
- Modify the construction access road surface, or
- Install washing racks and associated settling area or similar devices before the vehicle enters a paved surface.

For construction activities which cause airborne particulates, wet dust suppression shall be utilized. Construction site dust will be controlled by sprinkling the ground surface with water until it is moist on an as-needed basis. The volume of water sprayed shall be such that it suppresses dust yet also prevents the runoff of water.

Maintaining and Storing Vehicles and Equipment- Storage of Chemicals & Petroleum Products

The Contractor shall take measures to prevent any contamination to wetlands and watercourses while maintaining and storing construction equipment on the site. All chemical and petroleum containers stored on site shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those stored in containers of 100-gallon capacity or more, in which case double-walled tanks will suffice. Accumulation of rainwater within secondary containment must be visually inspected for sheen prior to being discharged. If any sheen is identified; the accumulated water must be removed by the Contractor to an appropriate off-site location.

Cold Water Stream Habitat

There is no Cold Water habitat at the project location.

Inspections

The Qualified Inspector will conduct site inspections once a week or after any rain event of 0.1 inches or greater during normal working hours. The Qualified Inspector conducting inspections

shall fill out a Construction Site Environmental Inspection Report (CSEIR) for each inspection described below.

Each report shall be retained as a part of the SWPCP and shall be uploaded to the COMPASS Environmental subfolder available for CTDEEP request. The report shall include a statement that, in the judgment of the Qualified Inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance, review Keeping Plans Current.

Plan Implementation Inspections

For each phase of construction, the site shall be inspected at least once within the first 30 days of construction activity and at least three times, with 7 or more days between inspections, within the first 90 days of construction activity to confirm compliance and proper initial implementation of all control measures.

Routine Inspections

The Permittee will maintain a rain gauge on-site to document rainfall amounts. During construction, all areas disturbed by the construction activity that have not been stabilized, all erosion and sediment control measures, structural control measures, soil stockpile areas, washout areas, and locations where vehicles enter or exit the site shall be inspected for evidence of or the potential for pollutant entering the drainage systems and impacts to the receiving waters at least every seven (7) calendar days and within 24 hours of the end of a storm that generates a discharge.

For storms that end on a weekend, holiday, or other time in which normal working hours will not commence within 24 hours, an inspection is required within 24 hours following any storm in which 0.5 inches or greater of rain occurs. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least weekly until final stabilization has been achieved.

Qualified Inspectors provided by the Department's District 1 Office shall conduct inspections.

The following items shall be inspected as described below:

Item	Procedure
Sedimentation Control System (SCS)	The SCS shall be inspected to ensure that the fence line is intact with no breaks or tears. The fence shall be firmly anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or uprooted shall be noted. Depth of sediment behind the fence shall be noted if sediment needs to be removed.

Concrete Washout Area	Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height of ½ of the container or pit or as necessary to avoid overflows. All concrete waste shall be disposed of in a manner consistent with all applicable laws, regulations and guidelines.
Catch Basin Protection	Protective measures shall be inspected to ensure that sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition.
Erosion Control Matting	Inspect erosion control matting and repair any dislodged or failed blankets immediately. Replace any washed out seed or topsoil.
Anti-tracking Pad	Maintain plan designated locations where vehicles enter or exit the site with the specified thickness of crushed stone. Inspect for evidence of off-site tracking of sediments. Sediment deposited outside construction limits or into the public roadways shall be removed and returned to the construction site. Washing of the roadway with water shall not be permitted.
Dust Control	Measures shall be taken for the purpose of allaying (diminishing) dust conditions. Measures may include the use of sweeping equipment and/or the application of water or calcium chloride.
Temporary Diversions	The temporary diversions when in proximity to active construction shall be inspected at the end of each working day. Temporary diversions not adjacent to active construction shall be inspected weekly. Repair defects of damage to diversions within 24 hours of observation. A temporary diversion shall be deemed to be damaged when it no longer performs its intended function.
General	Construction areas and the perimeter of the site shall be inspected for any evidence of debris that may blow or wash off-site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of materials that could pollute off site waters.

Post-Construction Inspection

Upon completion of construction activities and stabilization of the site, all post-construction stormwater structures, including catch basins, drain manholes, water quality swale, hydrodynamic separators, rip-rap outlet protection, and stormwater ponds, shall be cleaned of construction sediment or debris and the site inspected to confirm compliance with all post-construction stormwater management requirements. Sediment shall be properly disposed of in accordance with all applicable laws, regulations, and guidelines. Any remaining sediment control system(s) SCS shall be removed prior to acceptance of the project by the Department.

Final Stabilization Inspection

Once CTDOT has made a determination that the site has achieved final stabilization, the site shall be inspected, and photo documented by the District Environmental Coordinator (DEC) to confirm that no active erosion or sedimentation is present and site stabilization has been maintained.

Final stabilization is achieved when a full growing season is completed. A **full growing season** is defined as the timeframe encompassed by **two consecutive full seeding seasons**: April 1 through June 15, and August 15 through October 1. If final stabilization is achieved during a seeding season, the following seeding season will be considered the first full seeding season after final stabilization has been achieved, the DEC will verify compliance with this requirement on the Notice of Termination: Non-Solar Projects.

Keeping Plans Current

Revisions to Stormwater Pollution Control Plans

The Department will amend the Plan if the actions required by the Plan fail to prevent pollution or otherwise comply with provisions of the General Permit. The Plan shall also be amended whenever there is a change in contractors or sub-contractors at the site, or a change in design, construction, operation, or maintenance at the site which has not otherwise been addressed in the plan.

If the results of the inspections require modifications to the Stormwater Pollution Control Plan, the plans shall be revised as soon as practicable after the inspection. Such modifications shall provide for a timely implementation of any changes to non-engineered controls on the site within 24 hours and implementation of any changes to the plan within 3 (three) calendar days following the inspection. For Engineered measures, corrective actions shall be implemented on site within 7 (seven) days and incorporated into a revised Plan within 10 (ten) days of the date of inspection.

In no event shall the requirements to keep the Plan current or update a Plan, relieve the permittee and their contactor(s) of the responsibility to properly implement any actions required to protect the waters of the State and to comply with all conditions of the General Permit.

Contractors

General

This section shall identify all Contractors and Subcontractors who will perform on site actions which may reasonably be expected to cause or have the potential to cause pollution of the waters of the State.

Certification Statement

All contractors and subcontractors must sign the attached statement. All certifications will be included in the Stormwater Pollution Control Plan.

State Project No. 0131-0211

Southington Rest Area Truck Parking Improvements
Southington, CT

"I certify under penalty of law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as Contractor on the project, I am covered by this General Permit, and must comply with the terms and conditions of this permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for this project."

GENERAL CONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm: _____ Telephone: _____

Address: _____

_____

SUBCONTRACTOR

Signed: _____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

General:

This Stormwater Pollution Control Plan (SWPCP) is prepared to comply with the requirements for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. Also, to be considered part of the SWPCP are the proposed construction plans, special provisions, and the Connecticut Department of Transportation's "Standard Specifications for Roads, Bridges, Facilities and Incidental Construction" (Form 819) including supplements thereto and the Connecticut Guidelines for Erosion and Sediment Control (E&S Guidelines) and Stormwater Quality Manual (SWQ Manual), as amended.

List of Applicable Figures / Plans:

Appendix A – Figures

- Disturbed Erodible Areas Map
- Site Drainage Maps
- Boring Location Map
- Boring Report

Appendix B – Drainage Calculations

- Water Quality Computations

Appendix C – Plan Sheets

- Key Plan (03.05)
- Site Plans (03.06, 03.07, 03.08)
- Surplus Materials Berm Detail (03.15)
- Grading and Drainage Plans (03.16, 03.17, 03.18)
- Stormwater Pond Plan (03.19)
- Stormwater Pond Sections (03.20)
- Sedimentation and Erosion Control Details (03.34, 03.35)
- Miscellaneous Details Sheet (03.36, 03.37, 03.38)
- Construction Staging Plans (03.41, 03.42, 03.43, 03.44, 03.45)

Appendix D- CTDOT MS4 Project Design Maximum Extent Practicable Worksheet

- CTDOT MS4 Maximum Extent Possible (MEP) sheet

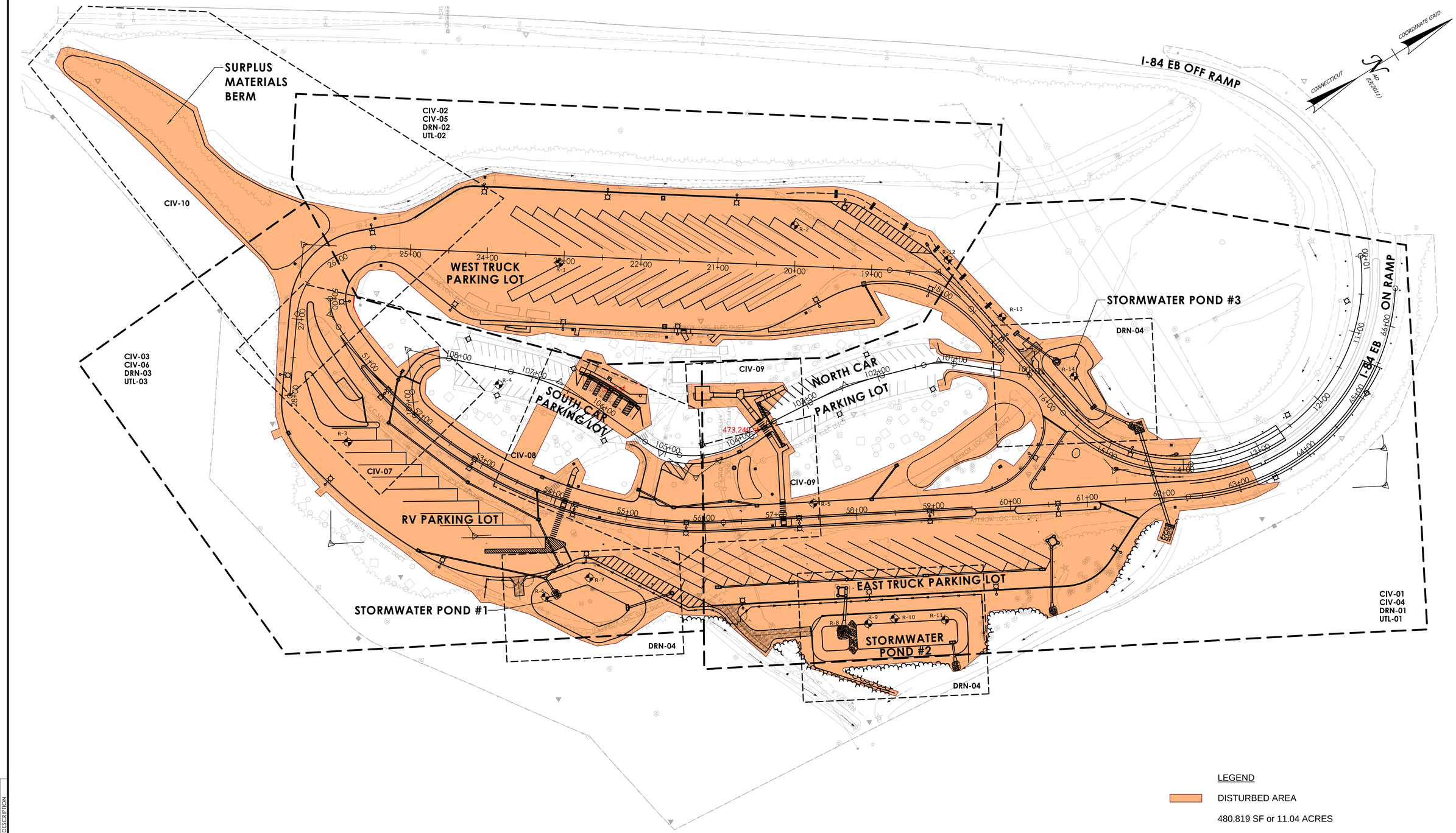
Appendix E- Construction Site Environmental Inspection Report (CSEIR)

- CSEIR Form

Appendix F – Notice of Termination Form: Non-Solar Projects

- General Permit for the Discharge of Stormwater & Dewatering Wastewaters from Construction Activities – Notice of Termination Form

Appendix A – Figures



LEGEND

DISTURBED AREA

480,819 SF or 11.04 ACRES

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: Digitally signed by CHA

DESIGNER/DRAFTER: REH CHECKED BY: JSP

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HORIZONTAL SCALE
1" = 60'

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TOWN(S): SOUTHINGTON

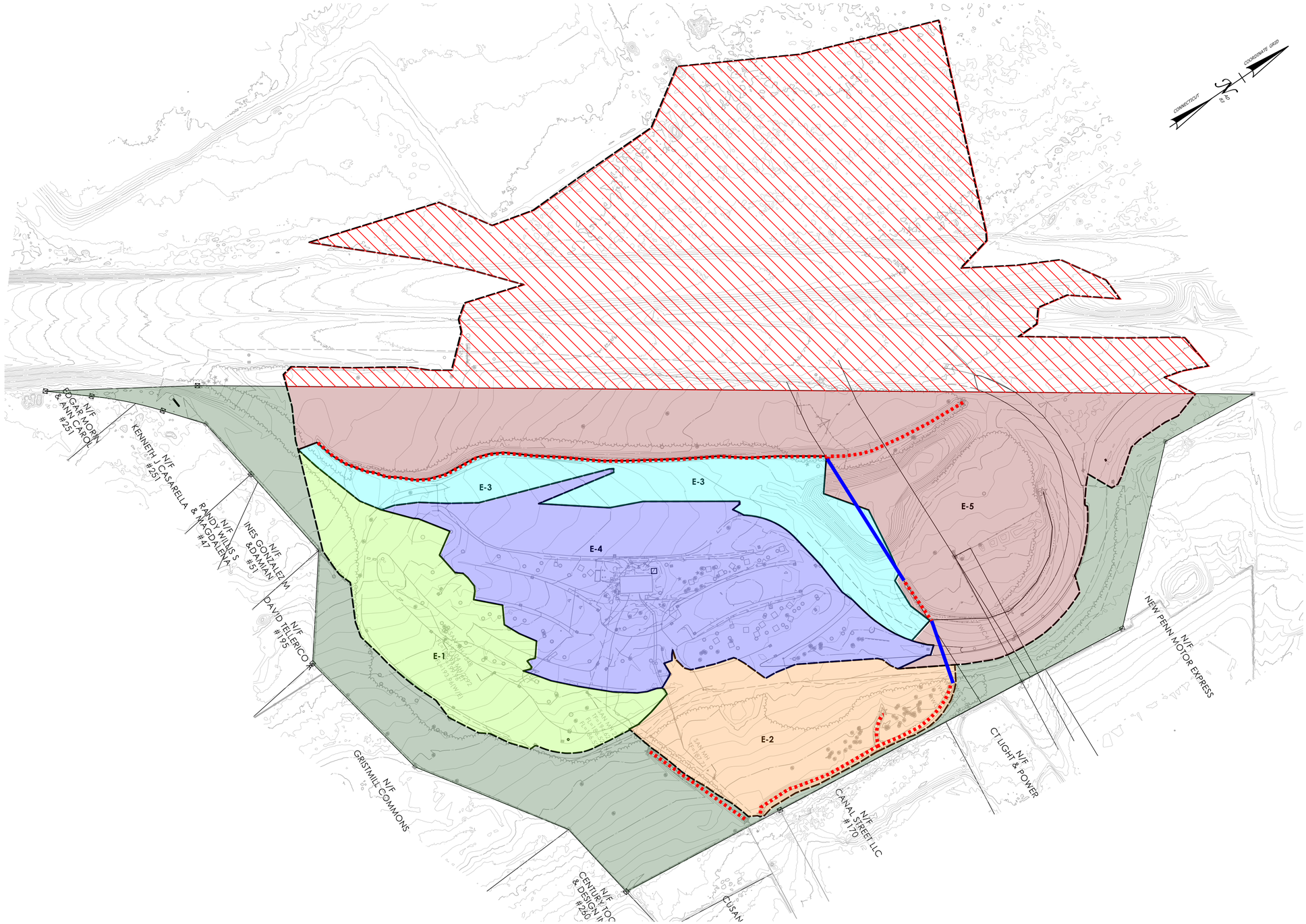
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PROJECT NO.: 0131-0211

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CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

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TOWN(S): **SOUTHINGTON**

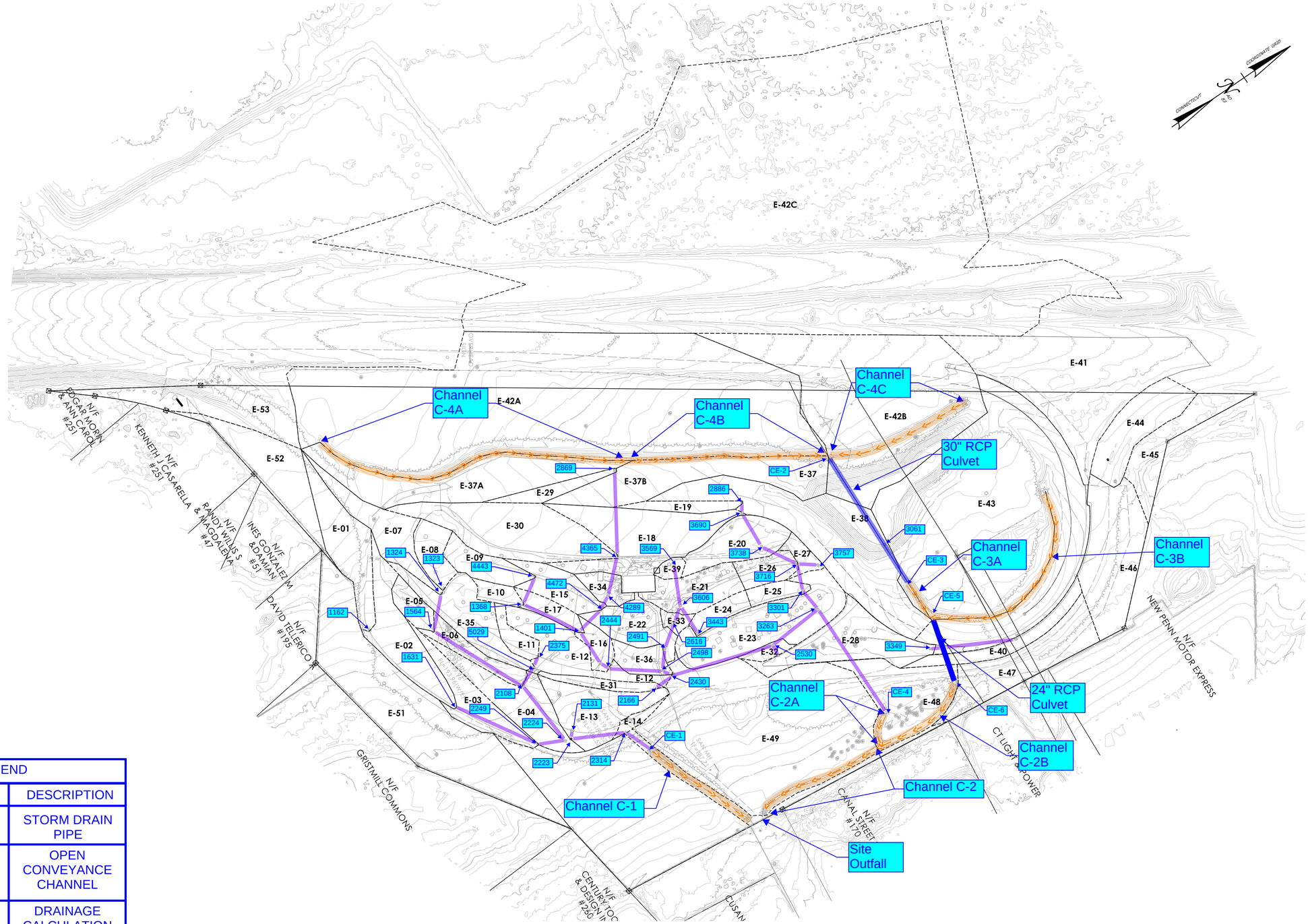
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PROJECT NO.: **0131-0211**

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SYMBOL	DESCRIPTION
	STORM DRAIN PIPE
← ← ←	OPEN CONVEYANCE CHANNEL
2314	DRAINAGE CALCULATION NODE ID

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: FV CHECKED BY: MR

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SCALE 1" = 100'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

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PROJECT NO.: 0131-0211

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CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

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TOWN(S): **SOUTHINGTON**

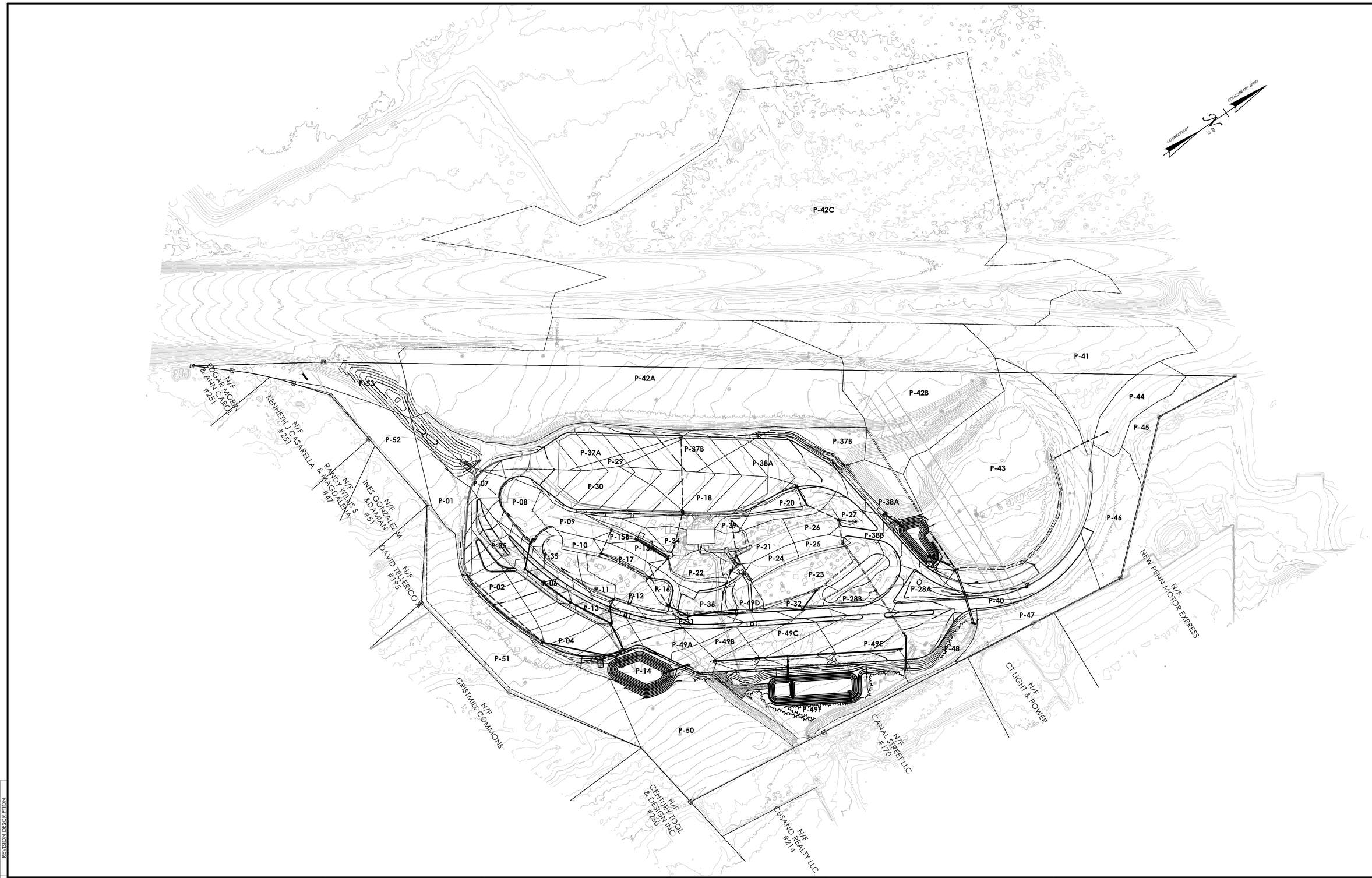
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TOWN(S): **SOUTHINGTON**

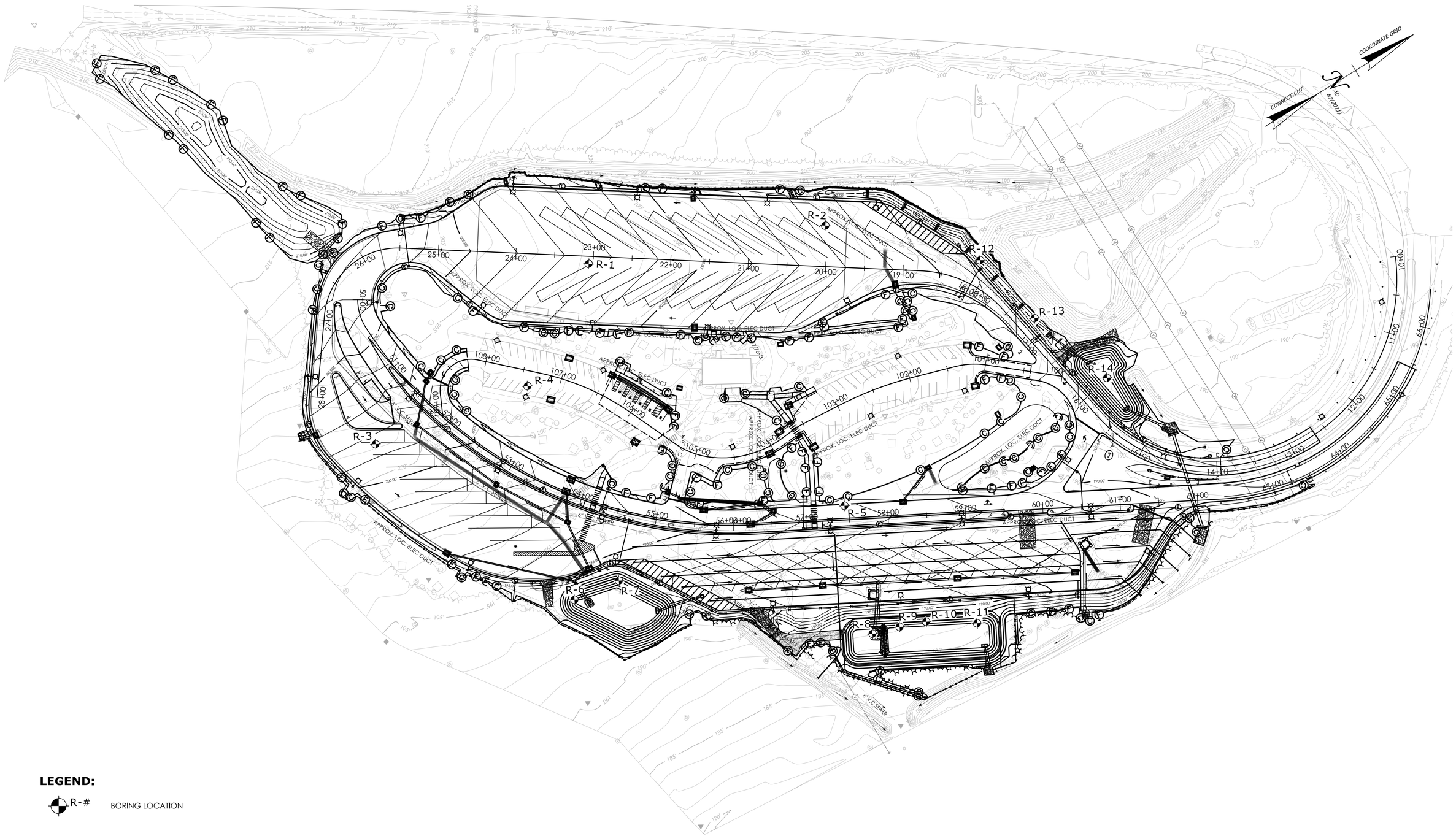
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PROJECT NO.: **0131-0211**

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PLOTTED DATE: 7/11/2025



LEGEND:

R-# BORING LOCATION

DRAFT Final

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DESIGNER/DRAFTER: REH CHECKED BY: JSP

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CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

DRAWING TITLE: **BORING LOCATION PLAN**

PROJECT NO.: **0131-0211**

DRAWING NO.: **Plan 1**

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PLOTTED DATE: 6/19/2025

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-01
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	23+06/9.7' LT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769236.93
Start Date:	4-30-25	Route No.:	I-84	Easting:	957473.59
Finish Date:	4-30-25	Bridge No.:		Surface Elevation:	201.8
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@7.2 after 1 hours				

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE	ASPHALT	
	Grab-1		6				Gray C-F GRAVEL, some c-f Sand, trace Silt	
	S-1	19 22 27 19	24	14		MISC. FILL	Red-brown M-F GRAVEL, some c-f Sand, little Silt	200
	S-2	29 52 27 20	24	13			Tan C-F SAND, and c-f Gravel, little Silt	
5	S-3	12 9 9 11	24	17		GLACIAL TILL	Brown C-F SAND, some Silt, little c-f Gravel	195
	S-4	10 9 17 19	24	14			Grades to and clayey Silt	
10							END OF BORING 9.2ft	190
15								185
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 9.2ft Rock: 0ft No. of Soil Samples: 5 No. of Core Runs: 0	NOTES: SSA through asphalt Grinding at 4' Boring backfilled with grout and concrete surface patch	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-02
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	20+03/53.2' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769522.49
Start Date:	4-30-25	Route No.:	I-84	Easting:	957592.64
Finish Date:	4-30-25	Bridge No.:		Surface Elevation:	196.5
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@6.8 after 1 hours				

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	Grab-1		3			PAVEMENT STRUCTURE	ASPHALT Gray C-F GRAVEL, some c-f Sand, trace Silt	
	S-1	48 23 16 19	24	22		MISC. FILL	Red-brown C-F SAND, and m-f Gravel, little Silt	195
	S-2	36 40 30 23	24	0			Red-brown C-F SAND, and Silt, some c-f Gravel	
5							Grades to trace Mica	
	S-3	9 10 17 30	24	18		GLACIAL TILL	Gray clayey SILT, and c-f Sand Red-brown C-F GRAVEL, and c-f Sand, some clayey Silt, trace Mica	190
	S-4	41 50/2.4"	8	6			Red-brown C-F SAND, some clayey Silt, some m-f Gravel	
							END OF BORING 7.7ft	
10								185
15								180
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 7.7ft Rock: 0ft No. of Soil Samples: 5 No. of Core Runs: 0	NOTES: SSA through asphalt Sample S-2 second attempt from 3' to 5' with 3" SS (R=1.8'/2'). Boring backfilled with grout and concrete surface patch	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-03
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	51+54/85.2' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	768880.47
Start Date:	5-1-25	Route No.:	I-84	Easting:	957526.47
Finish Date:	5-1-25	Bridge No.:		Surface Elevation:	201.2
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@5 after 1 hours				

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	Grab-1		1			PAVEMENT STRUCTURE	ASPHALT	
						MISC. FILL	Tan/gray C-F GRAVEL, some c-f Sand, trace Silt Red-brown C-F SAND, and m-f Gravel, little clayey Silt	200
	S-1	11 16 16 22	24	18		GLACIAL TILL	Tan C-F SAND, some clayey Silt, little m-f Gravel	
	S-2	21 20 17 20	24	16			Brown/tan C-F SAND, some clayey Silt, some c-f Gravel, trace Mica	
5	S-3	9 8 9 8	24	18			Brown/tan C-F SAND, some clayey Silt, some c-f Gravel, trace Mica	195
	S-4	14 15 17 20	24	16			Brown/tan C-F SAND, some clayey Silt, some c-f Gravel, trace Mica	
10							END OF BORING 9ft	190
15								185
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 9.0ft Rock: 0ft No. of Soil Samples: 5 No. of Core Runs: 0	NOTES: Core through pavement Boring backfilled with grout	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-04
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	107+41/19.7' LT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769086.71
Start Date:	5-2-25	Route No.:	I-84	Easting:	957566.18
Finish Date:	5-2-25	Bridge No.:		Surface Elevation:	202.1
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@None after 1 hours				

Depth (ft)	SAMPLES: Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE	ASPHALT Tan-gray, C-F GRAVEL, some c-f Sand, trace Silt	
						MISC. FILL		
	S-1	7 9 16 33	24	13			Red-brown C-F SAND, and m-f Gravel, some Silt	200
							Red-brown C-F SAND, some c-f Gravel, little Silt	
	S-2	17 25 29 16	24	19			Tan C-F SAND, some clayey Silt, little f Gravel	
5						GLACIAL TILL		
	S-3	11 17 16 41	24	16			Tan C-F SAND, some c-f Gravel, little Silt	
								195
	S-4	16 16 15 12	24	14			Tan/red-brown C-F SAND, some c-f Gravel, some clayey Silt	
10							END OF BORING 9ft	
								190
15								
								185
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 9.0ft Rock: 0ft	NOTES: SSA through asphalt Boring backfilled with grout	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-05
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	57+45/18.2' LT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769352.97
Start Date:	5-2-25	Route No.:	I-84	Easting:	957913
Finish Date:	5-2-25	Bridge No.:		Surface Elevation:	192.4
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@3.1 after 0.5 hours, @None after 1.75 hours				

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE	ASPHALT	
						MISC. FILL		
	S-1	11 14 23 24	24	19			Red-brown C-F GRAVEL, some c-f Sand, little clayey Silt	190
							Becomes red-brown/black	
	S-2	10 10 17 21	24	12		GLACIAL TILL	Red-brown clayey SILT, some c-f Sand, trace m Gravel, trace Mica	
5							Grades to some c-m Gravel	
	S-3	13 13 16 17	24	12		COMPLETELY WEATHERED ROCK	Red-brown C-F GRAVEL, some c-f Sand, little Silt, trace Mica	
							Red-brown clayey SILT, trace Mica	
	S-4	24 60 50/2"	14	12			Red-brown C-F SAND, some Silt, trace m Gravel	185
							END OF BORING 8.2ft	
10								
								180
15								
								175
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 8.2ft Rock: 0ft No. of Soil Samples: 4 No. of Core Runs: 0	NOTES: Core through pavement. Wire in sample at 3' Boring backfilled with grout	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-06
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	54+29/125.9' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	768992.87
Start Date:	5-1-25	Route No.:	I-84	Easting:	957832.52
Finish Date:	5-1-25	Bridge No.:		Surface Elevation:	192.5
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@6.5 after 1 hours				

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0			12	8		PAVEMENT STRUCTURE	ASPHALT	
	Grab-1		1			GLACIAL TILL	Red-brown C-F GRAVEL, and c-f Sand, little Silt	
	S-1	10 15 19 45	24	14			Red-brown C-F SAND, and c-f Gravel, some clayey Silt	190
	S-2	19 19 17 16	24	10			Red-brown C-F SAND, and c-f Gravel, some clayey Silt	
5	S-3	7 9 9 9	24	19			Grades to little clayey Silt, trace Mica	
	S-4	9 8 12 12	24	19			Grades to some m-f Gravel	185
10							END OF BORING 9ft	
								180
15								
								175
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 9.0ft Rock: 0ft No. of Soil Samples: 5 No. of Core Runs: 0	NOTES: Core through pavement Boring backfilled with grout	Sheet 1 of 1 SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. St. John		Hole No.:	R-07
Inspector: M. Horan	Town: Southington	Stat./Offset:	54+71/87.3' RT
Engineer: C. Symmes	Project No.: 0131-0211	Northing:	769054.56
Start Date: 5-1-25	Route No.: I-84	Easting:	957841.72
Finish Date: 5-1-25	Bridge No.:	Surface Elevation:	192.7

Project Description: Southington Rest Area Truck Parking Improvements

Casing Size/Type: SSA 4"	Sampler Type/Size: Split Spoon 1-3/8"	Core Barrel Type: N/A
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.	

Groundwater Observations: @None after 0.75 hours, @4.8 after 17.5 hours, @5.1 after 511 hours

Depth (ft)	SAMPLES: Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Well Construction	Elevation (ft)
0	S-1	2 3 5 6	24	18		TOPSOIL	Dark brown C-F SAND, little Silt, trace Roots		
						GLACIAL TILL	Red-brown C-F SAND, some Silt, little m-f Gravel		
	S-2	5 15 11 8	24	18			Red-brown C-F SAND, some Silt, little m-f Gravel		190
							Tan-brown C-F SAND, and clayey Silt, little f Gravel		
5	S-3	4 6 7 12	24	18			Grades to some c-f Gravel, trace Mica, becomes red-brown		
	S-4	18 21 50/4.8"	17	17		COMPLETELY WEATHERED ROCK	Red-brown C-F GRAVEL, and c-f Sand, some clayey Silt, trace Mica		185
	S-5	19 55 25 48	24	19			White-brown C-F SAND, and c-f Gravel, little Silt		
10							END OF BORING 10ft		
									180
15									
									175
20									

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 10.0ft Rock: 0ft	NOTES: SSA grinding from 7' to 8' Groundwater observation well OW-7 installed within borehole	Sheet 1 of 1
No. of Soil Samples: 5 No. of Core Runs: 0		SM-001-M REV. 1/02

Driller:	D. DeAngelis	**Connecticut DOT Boring Report**		Hole No.:	R-08
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	57+72/148.8' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769296.6
Start Date:	5-2-25	Route No.:	I-84	Easting:	958072.41
Finish Date:	5-2-25	Bridge No.:		Surface Elevation:	187.1

Project Description: Southington Rest Area Truck Parking Improvements

Casing Size/Type: SSA 4"/FJC 4"	Sampler Type/Size: Split Spoon 1-3/8"	Core Barrel Type: NX 2"
Hammer Wt.: 300lb Fall: 18in.	Hammer Wt.: 140lb Fall: 30in.	

Groundwater Observations: @2.5 after 1.5 hours, @1.6 after 5.25 hours, @2.9 after 477 hours

Depth (ft)	SAMPLES: Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Well Construction	Elevation (ft)
0	S-1	1 2 2 4	24	18		TOPSOIL / GLACIAL TILL	TOPSOIL Dark brown silty CLAY, little c-f Sand, trace f Gravel, trace Roots Tan/orange mottled C-F SAND, and silty Clay, some m-c Gravel		185
	S-2	4 6 13 14	24	17		COMPLETELY WEATHERED ROCK	Becomes red-brown Red-brown clayey SILT, some c-f Gravel, little c-f Sand, trace Mica Red-brown C-F GRAVEL, little c-f Sand, little clayey Silt, trace Mica		
5	S-3	9 22 13 16	24	13			Red-brown C-F GRAVEL, little c-f Sand, little clayey Silt, trace Mica		
	S-4	20 50/2.4"	8	6			Red-brown C-F GRAVEL, little c-f Sand, little clayey Silt, trace Mica		180
10	C-R-1		60	60	8	BEDROCK	Red-brown SANDSTONE, medium strong, slightly weathered, massive bedding, intensely fractured		175
15							END OF BORING 13ft		170
20									

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 8ft Rock: 5ft No. of Soil Samples: 4 No. of Core Runs: 1	NOTES: Driller switched to FJC at 5.35' C-R-1 core rate (min/ft): 2.5, 3.5, 5, 5, 4. Groundwater observation well OW-8 installed within borehole	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	D. DeAngelis	**Connecticut DOT Boring Report**		Hole No.:	R-09
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	58+07/141.9' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769331.05
Start Date:	5-2-25	Route No.:	I-84	Easting:	958083.41
Finish Date:	5-2-25	Bridge No.:		Surface Elevation:	187.1

Project Description: Southington Rest Area Truck Parking Improvements

Casing Size/Type: SSA 4"/FJC 4"	Sampler Type/Size: Split Spoon 1-3/8"	Core Barrel Type: NX 2"
Hammer Wt.: 300lb Fall: 18in.	Hammer Wt.: 140lb Fall: 30in.	

Groundwater Observations: @2.5 after 1.25 hours, @0.5 after 1.5 hours

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	1 4 3 4	24	24		TOPSOIL MISC. FILL	TOPSOIL Brown clayey SILT, some c-f Sand, some m-f Gravel, trace Cinders, trace Roots Brown clayey SILT, some c-f Sand, little f Gravel	
						GLACIAL TILL		185
	S-2	2 5 11 9	24	12			Red-brown C-F SAND, and clayey Silt, little m-f Gravel, trace Roots, trace Mica	
	S-3	50/3.6"	4	4		COMPLETELY WEATHERED ROCK	Red-brown C-F GRAVEL, some c-f Sand, little Silt, trace Mica	
5						WEATHERED BEDROCK		
								180
	C-R-1		60	26	20		Light gray CONGLOMERATE, medium strong, highly weathered, thickly bedded, intensely fractured Red-brown C-F Gravel, little c-f sand, little silt	
10	S-4	50/1"	1	1			ROCK FRAGMENTS	
							END OF BORING 10.6ft	175
15								
								170
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 5.5ft Rock: 5.1ft No. of Soil Samples: 4 No. of Core Runs: 1	NOTES: Driller switched to FJC at 5' C-R-1 core rate (min/ft): 2, 1.5, 0.5, 3, 5. Boring backfilled with cuttings	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	D. DeAngelis	**Connecticut DOT Boring Report**		Hole No.:	R-10
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	58+42/137.1' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769363.62
Start Date:	5-5-25	Route No.:	I-84	Easting:	958095.71
Finish Date:	5-5-25	Bridge No.:		Surface Elevation:	186.7
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	FJC 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	NX 2"
Hammer Wt.:	140lb Fall: 30in.	Hammer Wt.:	140lb Fall: 30in.		
Groundwater Observations:	@0.5 after 0.75 hours				

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	WH 4 10 8	24	19		TOPSOIL / GLACIAL TILL	TOPSOIL Dark brown silty CLAY, some c-f Sand, some m-f Gravel, trace organics Brown C-F SAND, some clayey Silt, little f Gravel Grades to and clayey Silt, some c-f Gravel	
	S-2	5 9 8 50/3.6"	22	16				185
						WEATHERED BEDROCK	ROCK FRAGMENTS	
5							Red-brown SANDSTONE, weak, highly weathered, massive bedding, intensely fractured	
	C-R-1		62	52	33			180
							Gray CONGLOMERATE, medium strong, moderately weathered, laminated, highly fractured	
10							END OF BORING 9.6ft	
								175
15								
								170
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 4.3ft Rock: 6.6ft No. of Soil Samples: 2 No. of Core Runs: 1	NOTES: Boring backfilled with sand and cuttings C-R-1 core rate (min/ft): 1, 2, 2, 3, 3.	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	D. DeAngelis	**Connecticut DOT Boring Report**		Hole No.:	R-11
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	59+07/142.7' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769418.52
Start Date:	5-2-25	Route No.:	I-84	Easting:	958132.13
Finish Date:	5-2-25	Bridge No.:		Surface Elevation:	185.8

Project Description: Southington Rest Area Truck Parking Improvements

Casing Size/Type: SSA 4"/FJC 4"	Sampler Type/Size: Split Spoon 1-3/8"	Core Barrel Type: NX 2"
Hammer Wt.: 300lb Fall: 18in.	Hammer Wt.: 140lb Fall: 30in.	

Groundwater Observations: @4 after 0.25 hours, @1.5 after 6.75 hours, @1.9 after 481 hours

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Well Construction	Elevation (ft)
0	S-1	3 1 2 5	24	16		TOPSOIL / GLACIAL TILL	TOPSOIL Dark brown clayey SILT, little c-f Sand, little m-f Gravel, trace Roots Tan-brown C-F SAND, some clayey Silt, some c-f Gravel, trace Roots		185
	S-2	9 11 12 10	24	17			Brown C-F SAND, some m-f Gravel, little Silt		
	S-3	8 50/2.4"	8	6			Red-brown clayey SILT, and c-f Gravel, little c-f Sand		
5	S-4	50/1.2"	1	1		WEATHERED BEDROCK	ROCK FRAGMENTS		180
10	C-R-1		60	48	18		Red-brown CONGLOMERATE, medium strong, moderately weathered, massive bedding, highly fractured		175
							END OF BORING 13ft		
15									170
20									

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 4.7ft Rock: 8.3ft No. of Soil Samples: 4 No. of Core Runs: 1	NOTES: Roller bit/SSA grinding from 5' to 8', Driller switched to FJC at 5.4' Top of rock estimated at 4.7' Groundwater observation well OW-11 installed within borehole	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-12
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	18+13/33.1' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769668.68
Start Date:	4-30-25	Route No.:	I-84	Easting:	957735.76
Finish Date:	4-30-25	Bridge No.:		Surface Elevation:	194.1
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@3.2 after 0.25 hours, @5.8 after 1.25 hours				

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						TOPSOIL	TOPSOIL	
	S-1	WH 2 5 6	24	23		GLACIAL TILL	Brown clayey SILT, some c-f Sand, little f Gravel, trace Roots Red-brown clayey SILT, some m-f Gravel, little c-f Sand	
	S-2	6 4 5 11	24	22			Red-tan clayey SILT, some c-f Sand, some c-f Gravel	
							Red-tan clayey SILT, some c-f Sand, some c-f Gravel	190
5	S-3	24 50 50/3.6"	16	16		COMPLETELY WEATHERED ROCK	Red-brown M-F GRAVEL, little c-f Sand, some Silt, trace Mica	
	S-4	50/4.8"	5	5			Red-brown M-F GRAVEL, little c-f Sand, some Silt, trace Mica	
								185
10								
						WEATHERED BEDROCK		
								180
15	S-5	50/0.6"	1	1			ROCK FRAGMENTS	
							END OF BORING 15.1ft	
								175
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 13ft Rock: 2.1ft No. of Soil Samples: 5 No. of Core Runs: 0	NOTES: SSA grinding from 5' to 7.5' and from 7.7' to 15' Boring backfilled with cuttings	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	M. St. John	**Connecticut DOT Boring Report**		Hole No.:	R-13
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	17+21/23.1' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769689
Start Date:	4-30-25	Route No.:	I-84	Easting:	957836.44
Finish Date:	4-30-25	Bridge No.:		Surface Elevation:	193.1
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"/FJC 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	NX 2"
Hammer Wt.:	140lb Fall: 30in.	Hammer Wt.:	140lb Fall: 30in.		
Groundwater Observations:	@3.98 after 1.5 hours, @4.2 after 1.75 hours				

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	2 3 5 6	24	17		TOPSOIL	TOPSOIL	
						GLACIAL TILL	Brown SILT, some c-f Sand, little f Gravel, trace Roots	
							Grades to some c-f Gravel, becomes tan/red-brown	
	S-2	10 11 22 50/4.8"	23	17			Red-brown clayey SILT, some c-f Sand, some c-f Gravel	190
						COMPLETELY WEATHERED ROCK	White-red SILT, some c-f Sand, some c-f Gravel	
	S-3	100/1.2"	1	1		WEATHERED BEDROCK	ROCK FRAGMENTS	
5						BEDROCK		
							Red-brown/gray CONGLOMERATE, medium strong, slightly weathered, thickly bedded, highly fractured	
	C-R-1		62	63	53			185
10							Red-brown SANDSTONE, medium strong, slightly weathered, medium bedded, highly fractured	
							END OF BORING 11.2ft	180
15								
								175
20								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 5.9ft Rock: 5.4ft No. of Soil Samples: 3 No. of Core Runs: 1	NOTES: Roller bit/SSA grinding from 4' to 7.2', Driller switched to FJC at 4.4' C-R-1 core rate (min/ft): 4, 3, 3.5, 3.5, 4. Boring backfilled with cuttings	Sheet 1 of 1 SM-001-M REV. 1/02

Driller:	D. DeAngelis	**Connecticut DOT Boring Report**		Hole No.:	R-14
Inspector:	M. Horan	Town:	Southington	Stat./Offset:	16+02/42.1' RT
Engineer:	C. Symmes	Project No.:	0131-0211	Northing:	769727.85
Start Date:	5-2-25	Route No.:	I-84	Easting:	957951.11
Finish Date:	5-5-25	Bridge No.:		Surface Elevation:	191.2
Project Description:	Southington Rest Area Truck Parking Improvements				
Casing Size/Type:	SSA 4"	Sampler Type/Size:	Split Spoon 1-3/8"	Core Barrel Type:	N/A
Hammer Wt.:	Fall: in.	Hammer Wt.:	140 Fall: 30in.		
Groundwater Observations:	@None after 0.25 hours, @2.55 after 69 hours, @5.1 after 484 hours				

Depth (ft)	SAMPLES: Sample Type/No.	SAMPLES: Blows on Sampler per 6 inches	SAMPLES: Pen. (in.)	SAMPLES: Rec. (in.)	SAMPLES: RQD %	Generalized Strata Description	Material Description and Notes	Well Construction	Elevation (ft)
0	S-1	2 7 9 11	24	18		TOPSOIL / MISC. FILL	TOPSOIL Dark Brown/dark gray C-F SAND, and clayey Silt, little m-f Gravel, trace roots		190
	S-2	3 8 9 9	24	11		GLACIAL TILL	Tan-orange mottled C-F SAND, and clayey Silt, some m-f Gravel, trace Mica, trace Roots Becomes red-brown		
5	S-3	10 9 50/3.6"	16	7			Red-brown C-F SAND, and clayey Silt, some c-f Gravel, trace mica		
	S-4	50/0.6"	1	1		WEATHERED BEDROCK	ROCK FRAGMENTS		185
10	C-R-1		61	38	16		Grey CONGLOMERATE, medium strong, moderately weathered, thickly bedded, intensely fractured		180
							END OF BORING 11.6ft		
15									175
20									

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 5.5ft Rock: 6.1ft No. of Soil Samples: 4 No. of Core Runs: 1	NOTES: SSA grinding from 5.5' to 5.8' Driller switched to FJC at 5.8' C-R-1 core rate (min/ft): 1.5, 1, 2, 6, 2. Groundwater observation well OW-14 installed within borehole	Sheet 1 of 1 SM-001-M REV. 1/02

Appendix B – Drainage Calculations

BMP - WQF / WQF Calculations

PROJECT	Southington Rest Area - Truck Parking Impv.	PREPARED BY	MBR
DATE	6/13/2025	CHECKED BY	
SUBJECT	Basin #1		

WATER QUALITY VOLUME (WQV) CALCULATION

Drainage Area to BMP (A) = **2.92** acres
= 0.00456 square miles

BMP DRAINAGE AREA

Drainage Area	Impervious Area
Subcatchment-1	**1.90**
Subcatchment-2	**0.00**
Subcatchment-3	**0.00**
Total Impervious	1.90

Design Precipitation (P) = 1.3 inch
% Impervious Cover (I) = 65
Volumetric Runoff Coefficient (R) = 0.635

WQV = 0.201 ac-ft
8736 cu-ft

1/2 WQV= 0.100 ac-ft
= 4368 cu-ft

WATER QUALITY FLOW (WQF) CALCULATION

RUNOFF CURVE NUMBER (CN)

Runoff Depth (Q) = 0.825 inches
CN = 95 Figure 2-1 (SWQM)

TIME OF CONCENTRATION (Tc), 10 minute minimum

Tc = **10** min
Tc = 0.17 hours

Initial Abstraction (I_a) = 0.105 Table 4-1 (SWQM)
I_a/P Calculation = 0.080769231
Unit Peak Discharge (q_u) = **580** Exhibit 4-111 (SWQM)

WQF = 2.18 cfs

1/2 WQF = 1.09 cfs

BMP - WQF / WQF Calculations

PROJECT	Southington Rest Area - Truck Parking Impv.	PREPARED BY	MBR
DATE	6/13/2025	CHECKED BY	
SUBJECT	Basin #2		

WATER QUALITY VOLUME (WQV) CALCULATION

Drainage Area to BMP (A) =	1.916	acres
=	0.00299	square miles

BMP DRAINAGE AREA

Drainage Area	Impervious Area
Subcatchment-1	1.916
Subcatchment-2	
Subcatchment-3	
Total Impervious	1.916

Design Precipitation (P) =	1.3	inch
% Impervious Cover (I) =	100	
Volumetric Runoff Coefficient (R) =	0.950	

WQV =	**0.197**	**ac-ft**
	8590	**cu-ft**

1/2 WQV=	**0.099**	**ac-ft**
=	**4295**	**cu-ft**

WATER QUALITY FLOW (WQF) CALCULATION

RUNOFF CURVE NUMBER (CN)

Runoff Depth (Q) =	1.235	inches
CN =	99	Figure 2-1 (SWQM)

TIME OF CONCENTRATION (Tc), 10 minute minimum

Tc =	10	min
Tc =	0.17	hours

Initial Abstraction (I_a) =	0.041	Table 4-1 (SWQM)
I_a/P Calculation =	0.031538462	
Unit Peak Discharge (q_u) =	580	Exhibit 4-111 (SWQM)

WQF =	**2.14**	**cfs**

1/2 WQF =	**1.07**	**cfs**

BMP - WQF / WQF Calculations

PROJECT	Southington Rest Area - Truck Parking Impv.	PREPARED BY	MBR
DATE	6/13/2025	CHECKED BY	
SUBJECT	Stormwater Pond #3/Swale		

WATER QUALITY VOLUME (WQV) CALCULATION

Drainage Area to BMP (A) =	1.71	acres
=	0.00267	square miles

BMP DRAINAGE AREA

Drainage Area	Impervious Area
Subcatchment-1	0.30
Subcatchment-2	0.51
Subcatchment-3	0.00
Total Impervious	0.81

Design Precipitation (P) =	1.3	inch
% Impervious Cover (I) =	47	
Volumetric Runoff Coefficient (R) =	0.477	

WQV =	**0.088**	**ac-ft**
	3852	**cu-ft**

1/2 WQV=	**0.044**	**ac-ft**
=	**1926**	**cu-ft**

WATER QUALITY FLOW (WQF) CALCULATION

RUNOFF CURVE NUMBER (CN)

Runoff Depth (Q) =	0.621	inches
CN =	92	Figure 2-1 (SWQM)

TIME OF CONCENTRATION (Tc), 10 minute minimum

Tc =	10	min
Tc =	0.17	hours

Initial Abstraction (I_a) =	0.174	Table 4-1 (SWQM)
I_a/P Calculation =	0.133846154	
Unit Peak Discharge (q_u) =	550	Exhibit 4-111 (SWQM)

WQF =	**0.91**	**cfs**

1/2 WQF =	**0.46**	**cfs**

Trapezoidal Channel Flow

Trapezoidal Channel Features:

Bottom Width (ft)	4
Slope (ft/ft)	0.0155
Side slopes (Z:1)	3
Manning's n	0.035

WQF (cfs) **0.91 cfs**

(compare with table to determine approx. depth and velocity)

Stage / Discharge Table

Q (cfs)	Depth (in)	Depth (ft)	Area (sf)	Velocity (fps)
0.00	**0.0**	0	0.00	
0.02	0.1	0.01	0.06	0.31
0.06	0.2	0.02	0.12	0.49
0.11	0.3	0.03	0.18	0.64
0.18	0.4	0.03	0.23	0.77
0.26	0.5	0.04	0.29	0.89
0.35	0.6	0.05	0.35	0.99
0.45	0.7	0.06	0.41	1.09
0.55	0.8	0.07	0.47	1.18
0.67	0.9	0.08	0.53	1.27
0.79	**1.0**	0.08	0.58	1.35
0.91	1.1	0.09	0.64	1.43
1.34	1.4	0.12	0.82	1.64
1.65	1.6	0.13	0.93	1.77
1.98	1.8	0.15	1.05	1.89
2.33	**2.0**	0.17	1.17	1.99
2.69	2.2	0.18	1.28	2.10
3.07	2.4	0.20	1.40	2.19
3.46	2.6	0.22	1.52	2.28
3.86	2.8	0.23	1.63	2.37
4.28	**3.0**	0.25	1.75	2.45
4.71	3.2	0.27	1.87	2.52
5.15	3.4	0.28	1.98	2.59
5.59	3.6	0.30	2.10	2.66
6.05	3.8	0.32	2.22	2.73
6.51	**4.0**	0.33	2.33	2.79
8.94	5.0	0.42	2.92	3.06
11.51	6.0	0.50	3.50	3.29
14.19	7.0	0.58	4.08	3.48
16.96	8.0	0.67	4.67	3.63
19.80	9.0	0.75	5.25	3.77
22.70	10.0	0.83	5.83	3.89
25.65	11.0	0.92	6.42	4.00
28.63	12.0	1.00	7.00	4.09
31.65	13.0	1.08	7.58	4.17
34.70	14.0	1.17	8.17	4.25
37.77	15.0	1.25	8.75	4.32
40.86	16.0	1.33	9.33	4.38
43.97	17.0	1.42	9.92	4.43
47.10	18.0	1.50	10.50	4.49

Stage/Discharge Table:

A Stage/Discharge Table or Graph models the performance (flow vs depth) of a hydraulic feature (channel, pipe, weir,...) This specific table is generated using Manning's Equation for a trapezoidal channel.

$$Q = \frac{1.49}{n} * A * R^{\frac{2}{3}} * S^{\frac{1}{2}}$$ *Where: R = Hydraulic Radius = Area/Wetted Perimeter*

To use this table, look for a **Q** which is approximately the flow rate of interest (**WQF**) and look across the row to observe whether the depth and velocity meet the specific BMP criteria. *(Close enough!)*

Note: Mannings Roughness Coefficient may be increased for shallow depths of flow (such as a WQF.)

For instance: Determining the 10 or 25-year flow capacity of a grass channel, typically a Manning's "n" of 0.03 will be used. The depth of the water quality flow is shallow (in the order of an inch.) A good stand of natural grass in a channel may present a Manning's "n" of 0.05 - 0.08 to a shallow water flow (HEC-15.)

BMP - WQF / WQF Calculations

PROJECT	Southington Rest Area - Truck Parking Impv.	PREPARED BY	MBR
DATE	6/13/2025	CHECKED BY	
SUBJECT	Basin #4		

WATER QUALITY VOLUME (WQV) CALCULATION

Drainage Area to BMP (A) = **5.34** acres
= 0.00834 square miles

BMP DRAINAGE AREA

Drainage Area	Impervious Area
Subcatchment-1	**2.33**
Subcatchment-2	
Subcatchment-3	
Total Impervious	2.33

Design Precipitation (P) = 1.3 inch
% Impervious Cover (I) = 44
Volumetric Runoff Coefficient (R) = 0.443

WQV = 0.256 ac-ft
11156 cu-ft

1/2 WQV= 0.128 ac-ft
= 5578 cu-ft

WATER QUALITY FLOW (WQF) CALCULATION

RUNOFF CURVE NUMBER (CN)

Runoff Depth (Q) = 0.576 inches
CN = 91 Figure 2-1 (SWQM)

TIME OF CONCENTRATION (Tc), 10 minute minimum

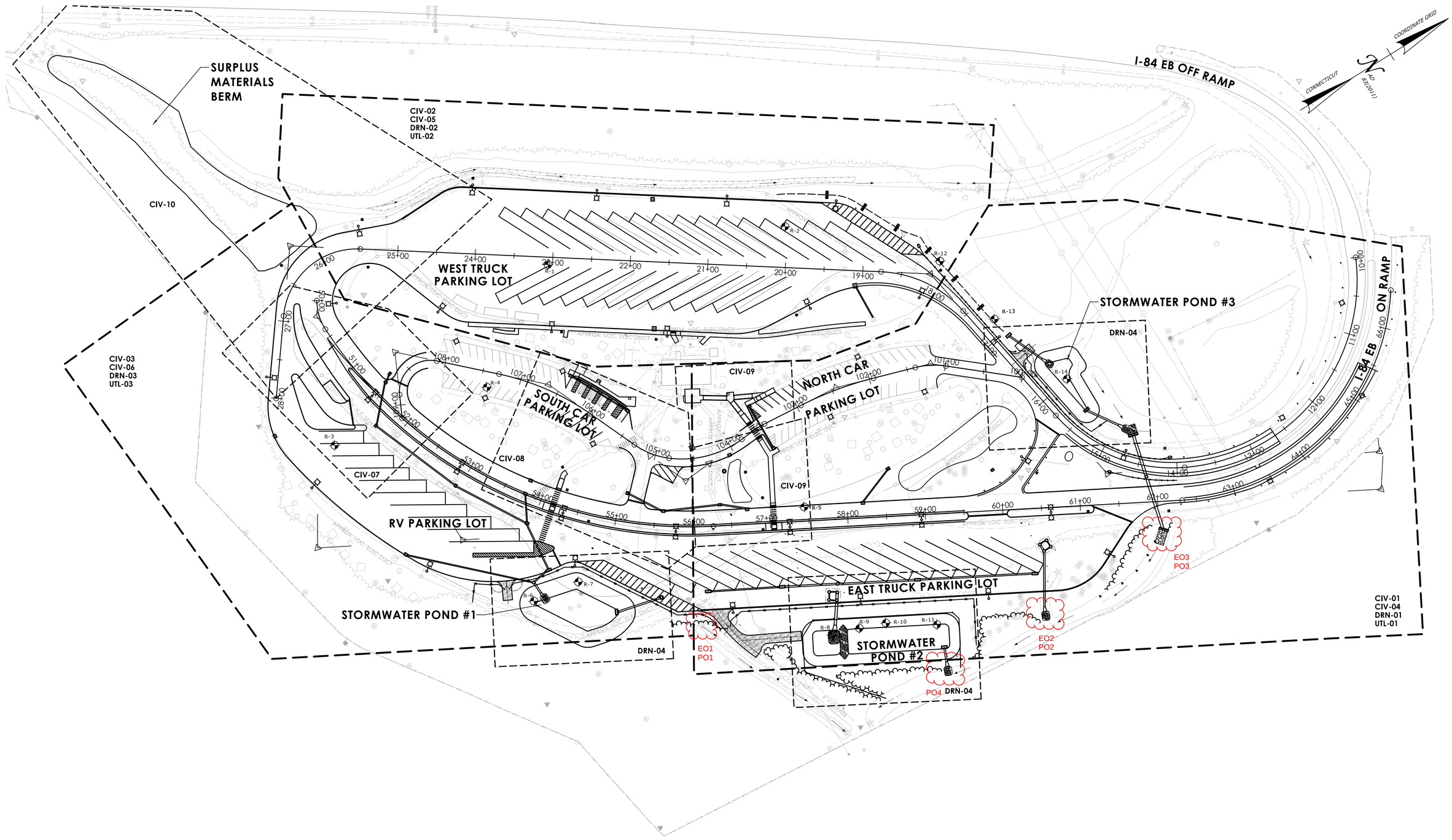
Tc = **10** min
Tc = 0.17 hours

Initial Abstraction (I_a) = 0.198 Table 4-1 (SWQM)
I_a/P Calculation = 0.152307692
Unit Peak Discharge (q_u) = **550** Exhibit 4-111 (SWQM)

WQF = 2.64 cfs

1/2 WQF = 1.32 cfs

Appendix C – Plan Sheets



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:
Glenn Giovanni Cruz
CHA
400 Capitol Blvd Ascent, Suite 301
Hartford, CT 06106
518.453.4500 www.chacompanies.com

DESIGNER/DRAFTER: REH CHECKED BY: JSP

0 60' 120'
HORIZONTAL SCALE
1" = 60'

CTDOT
CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S):
SOUTHINGTON

DRAWING TITLE:
KEY PLAN

PROJECT NO.:
0131-0211

DRAWING NO.:
KEY-01

SHEET NO.:
03.05

LASTED SAVED BY: 5394 **FILE NAME:** \\cha-llp.com\proj\Projects\ANY\K7\089804.000\16_Custom_Client\CT_Connect\Highways\Contract_Plans\FD_CP_0131-0211_KEY PLAN.dgn
PLOTTED DATE: 7/15/2025

LEGEND:

- FULL-DEPTH RECONSTRUCTION
- REMOVE & REPLACE PAVEMENT ON VARIABLE DEPTH PROCESSED AGGREGATE BASE
- 6" OF NO. 3 CRUSHED STONE
- 2" MILLING & 2" PMA OVERLAY
- REMOVE EXISTING PAVEMENT & CURB
- BIT. CONCRETE SAWCUT
- R-# BORING LOCATION

BEGIN PROJECT NO. 0131-0211
BEGIN 2" MILLING & 2" PMA OVERLAY
STA. 12+65.00
N 769917.56
E 958154.52

END PROJECT NO. 0131-0211
END 2" MILLING & 2" PMA OVERLAY
STA. 65+45.00
N 770069.08
E 958147.58

MATCH MARK - SEE DRAWING NO. CIV-02

MATCH MARK - SEE DRAWING NO. CIV-03

CONC. SIDEWALK
METAL HANDRAIL (TYP.)
RELOCATE TRASH CAN
REMOVE AND RELOCATE STONES (TO BE PAID FOR AS CLEARING AND GRUBBING)
CONC. SIDEWALK RAMP - 8" THICK
PLACE 3" WOOD CHIP MULCH
CONC. SIDEWALK RAMP (TYPE 16)
DETECTABLE WARNING SURFACE
MATCH EX. SIDEWALK
BEGIN 5" GRANITE STONE CURBING WITH 6" REVEAL

CONC. SIDEWALK RAMP (TYPE 16)
PLACE 3" WOOD CHIP MULCH
MATCH EX. SIDEWALK
2" BIT. CONC. SIDEWALK
END 5" GRANITE STONE CURBING WITH 6" REVEAL
CONC. SIDEWALK RAMP (TYPE 16)
DETECTABLE WARNING SURFACE
5" GRANITE STONE CURBING WITH 6" REVEAL
5" GRANITE STONECURBING WITH 4" BEVELED REVEAL
CONC. SIDEWALK RAMP (CIRC. ROAD ISLAND RAMP, SEE DWG. NO. MDS-02)
LIMITS OF 4" TOPSOIL & WILDFLOWER ESTABLISHMENT
D (SEE DWG. NO. TYP-02)

NORTH CAR PARKING LOT

REMOVE EXISTING PAVEMENT & CURB
ADD 4" TOPSOIL (TYP.)
LIMITS OF 4" TOPSOIL & WILDFLOWER ESTABLISHMENT
PLACE 3" WOOD CHIP MULCH
REMOVE FENCE (TO BE PAID FOR AS CLEARING AND GRUBBING)
RETAIN
END 5" GRANITE STONE CURBING WITH 6" REVEAL
RETAIN

STONE CHECK DAM (TYP.)
162'-6" METAL BEAM RAIL (R-B MASH)
A (SEE DWG. NO. (TYP-01)
R-B TERMINAL SECTION
6" NO. 3 CRUSHED STONE FOR MAINTENANCE APRON
16' CHAIN LINK DOUBLE GATE 6' HIGH
R-B TERMINAL SECTION
110' EASEMENT GRANTED TO THE CONN LIGHT & POWER CO
STORMWATER POND #3
6' CHAIN LINK FENCE (TYP.)
END METAL BEAM RAIL (R-B MASH)
175' METAL BEAM RAIL (R-B MASH)
BEGIN FULL -DEPTH CONSTRUCTION
END 2" MILLING & 2" PMA OVERLAY
STA. 13+95.00
CUT BIT. CONC. PAVEMENT
MATCH EXISTING CROSS SLOPE
BITUMINOUS CONCRETE PARK CURB
R-B END ANCHORAGE TYPE II
RESET METAL BEAM RAIL (TYPE MD-I)
BEGIN 5" GRANITE STONE CURBING WITH 6" REVEAL
5" GRANITE STONE CURBING WITH 6" REVEAL
CONCRETE ISLAND (PAID FOR AS CONCRETE SIDEWALK)
CONCRETE ISLAND (PAID FOR AS CONCRETE SIDEWALK)
5" GRANITE STONE CURBING WITH 4" BEVELED REVEAL
MD-I END ANCHORAGE TYPE I
MATCH EXISTING CROSS SLOPE APPLY TACK COAT TO MILLED SURFACE
END FULL -DEPTH CONSTRUCTION
BEGIN 2" MILLING & 2" PMA OVERLAY
STA. 63+25.0
CUT BIT. CONC. PAVEMENT
MATCH EXISTING CROSS SLOPE
4" TOPSOIL & TURF ESTABLISHMENT (TYP.)

EAST TRUCK PARKING LOT

DETECTABLE WARNING SURFACE
16' CHAIN LINK DOUBLE GATE 6' HIGH
6" NO. 3 CRUSHED STONE FOR MAINTENANCE ACCESS
APPROXIMATE SLOPE LIMIT (TYP.)
LIMIT OF CLEARING & GRUBBING
TRUCK PARKING SPACE (TYP.)
6' CHAIN LINK FENCE (TYP.)

STORMWATER POND #2
SAN MH TF=187.71

R-5 R-8 R-9 R-10 R-11 R-13 R-14

NOTE:
NO TRIMMING, CUTTING, OR REMOVAL OF TREES WITH A 3" DIAMETER AT BREAST HEIGHT (DBH) OR GREATER FROM APRIL 15 TO OCTOBER 31.

N/F NEW PENN MOTOR EXPRESS
N/F CANAL STREET LLC #170
N/F CT LIGHT & POWER
35' D.R.O.W. RIGHT TO MAINTAIN DRAINAGE FACILITIES (EASEMENT BY)
SUBJECT TO RIGHT OF WAY IN FAVOR OF CONN. LIGHT & POWER CO.
E=958400
N=769800

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: CHA Consulting, LLC, 900 Asylum Ave, Suite 201, Hartford, CT 06105, 518.453.4500, www.chaconsulting.com
DESIGNER/DRAFTER: PRP CHECKED BY: JSP

HORIZONTAL SCALE 1"=30' (0, 30', 60')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

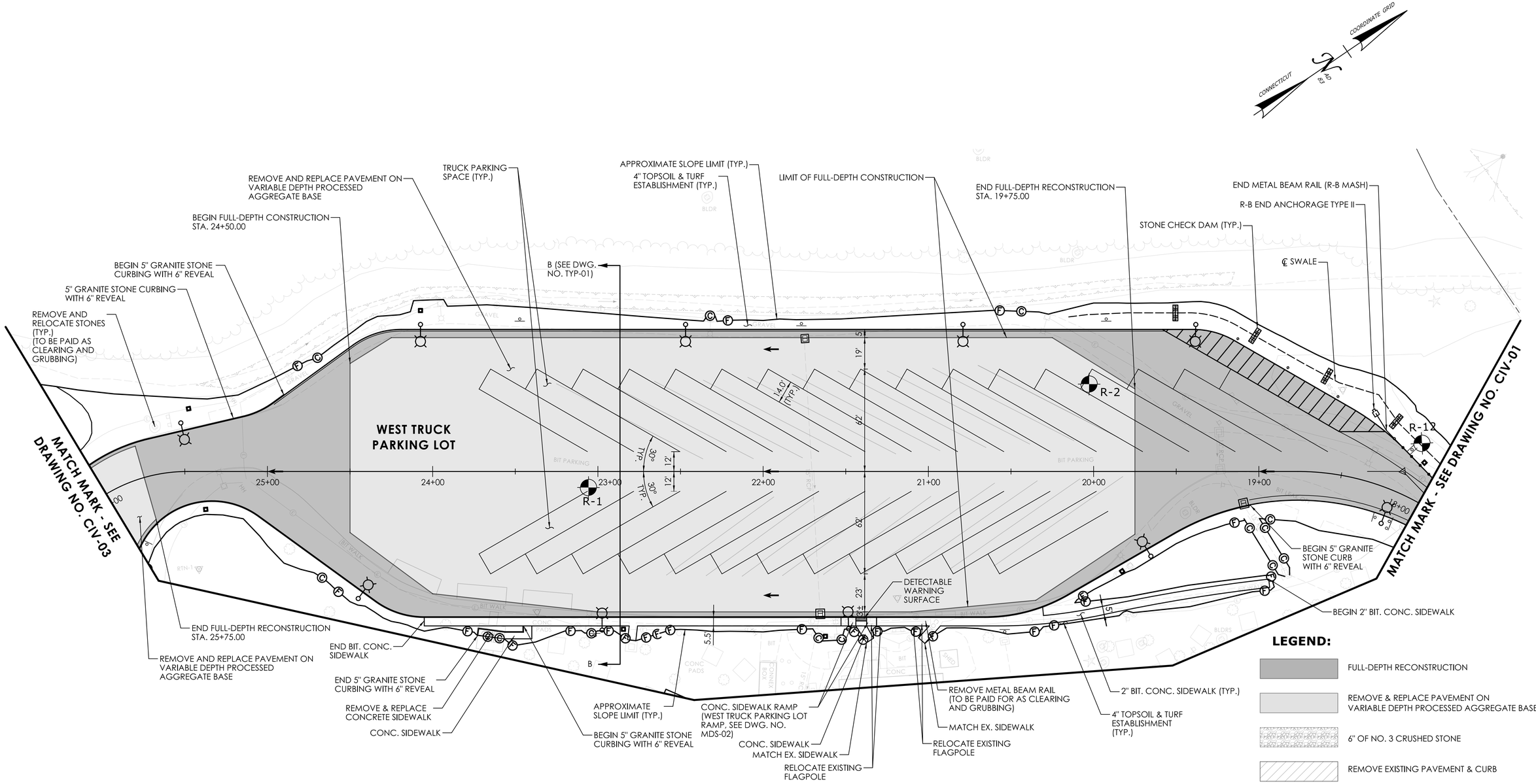
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PROJECT NO.: 0131-0211

DRAWING NO.: CIV-01

SHEET NO.: 03.06

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PLOTTED DATE: 7/15/2025



NOTE:
NO TRIMMING, CUTTING, OR REMOVAL OF TREES WITH A 3" DIAMETER AT BREAST HEIGHT (DBH) OR GREATER FROM APRIL 15 TO OCTOBER 31.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: CHA
DESIGNER/DRAFTER: PRP CHECKED BY: JSP

0 30' 60'
HORIZONTAL SCALE 1"=30'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: SITE PLANS

PROJECT NO.: 0131-0211

DRAWING NO.: CIV-02

SHEET NO.: 03.07

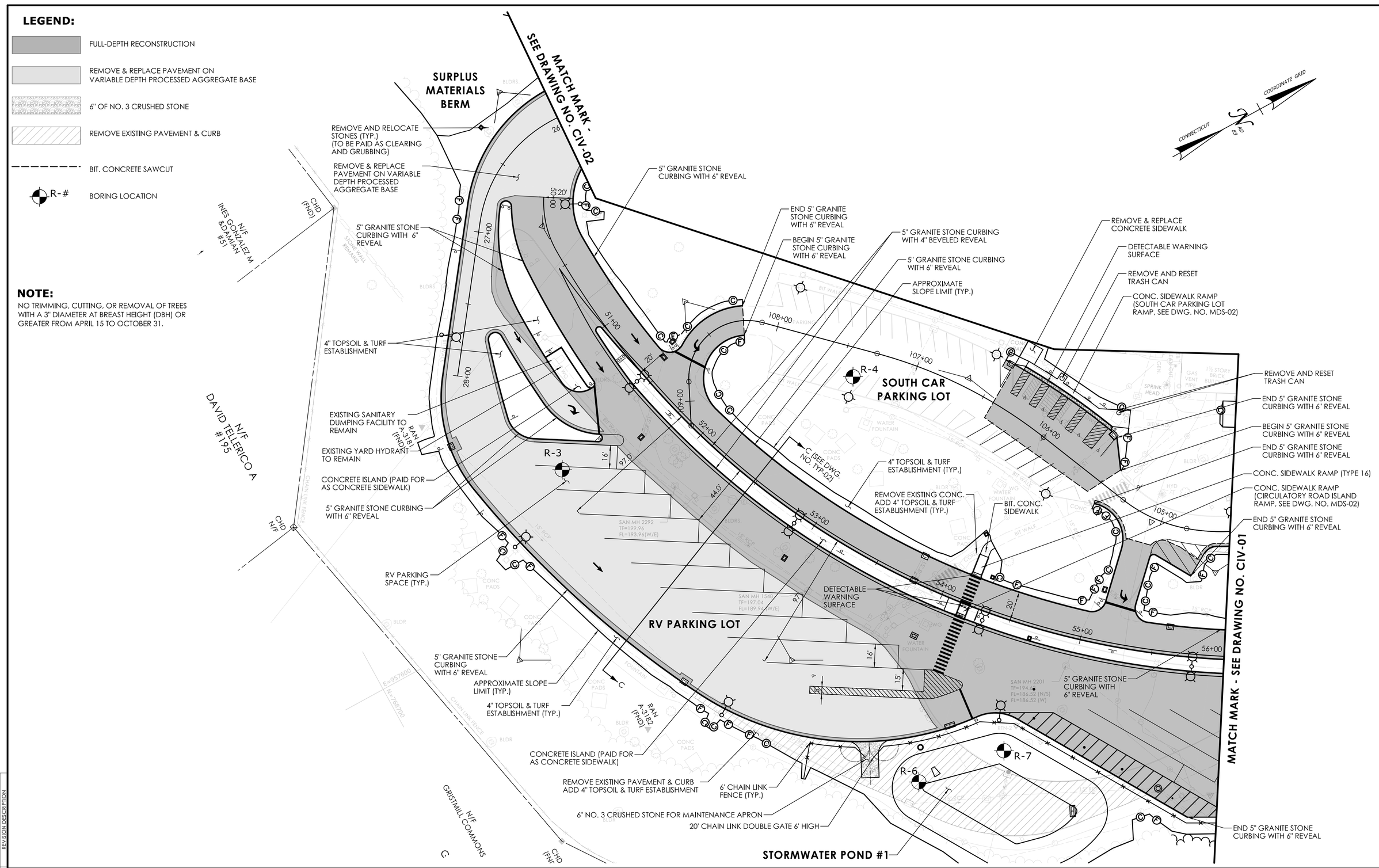
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PLOTTED DATE: 7/15/2025

LEGEND:

- FULL-DEPTH RECONSTRUCTION
- REMOVE & REPLACE PAVEMENT ON VARIABLE DEPTH PROCESSED AGGREGATE BASE
- 6" OF NO. 3 CRUSHED STONE
- REMOVE EXISTING PAVEMENT & CURB
- BIT. CONCRETE SAWCUT
- R-# BORING LOCATION

NOTE:

NO TRIMMING, CUTTING, OR REMOVAL OF TREES WITH A 3" DIAMETER AT BREAST HEIGHT (DBH) OR GREATER FROM APRIL 15 TO OCTOBER 31.



REV.	DATE	REVISION DESCRIPTION					
SIGNATURE BLOCK: CHA Connecticut Office, 499 Capitol Boulevard, Suite 301, Rocky Hill, CT 06067, 914.455.1500 www.chasolutions.com	0 30' 60' HORIZONTAL SCALE 1"=30'	CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS	TOWN(S): SOUTHINGTON	DRAWING TITLE: SITE PLANS	PROJECT NO.: 0131-0211	DRAWING NO.: CIV-03
DESIGNER/DRAFTER: PRP CHECKED BY: JSP							SHEET NO.: 03.08

LASTED SAVED BY: 5394 **FILE NAME:** \\cha-llp.com\proj\Projects\ANY\K7\089804.000\16_Custom_Client\CT_Connect\Highways\Contract_Plans\FD_CP_0131-0211_SITE PLAN.dgn
PLOTTED DATE: 7/15/2025

NOTES:

1. THE CONTRACTOR SHALL UTILIZE THE APPROXIMATE AREA OF THE BERM SHOWN ON THE PLAN FOR THE ON-SITE DISPOSAL OF SURPLUS EXCAVATED MATERIALS, EXCLUDING UNSUITABLE MATERIALS. THE APPROXIMATE VOLUME OF MATERIAL THAT CAN BE DISPOSED IN THIS AREA IS ESTIMATED TO BE 1,700 CY.

2. THE EXISTING AREA SHALL BE CLEARED IN ACCORDANCE WITH SECTION 2.01 OF THE STANDARD SPECIFICATIONS. THE INTENT IS FOR THE EDGES OF THE BERM TO EXTEND INTO THE EXISTING BRUSH UNDER THE TREE CANOPY BUT TO STOP SHORT OF REQUIRING TREE REMOVAL FOR PLACEMENT OF THE BERM MATERIAL, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. THE TRIMMING OF LIMBS TO FACILITATE CONSTRUCTION OF THE BERM SHALL BE PAID UNDER ITEM #0201001A - CLEARING AND GRUBBING.

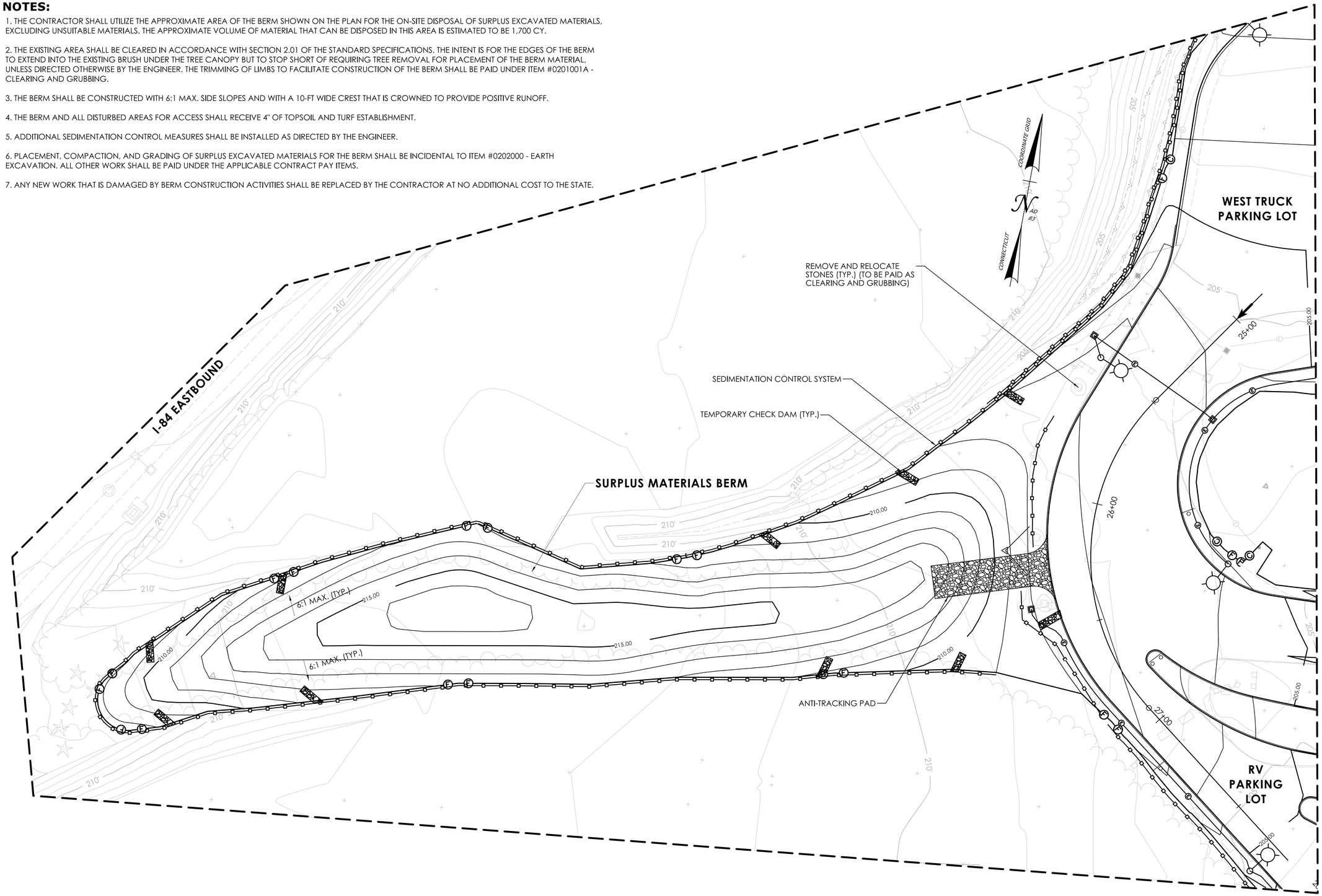
3. THE BERM SHALL BE CONSTRUCTED WITH 6:1 MAX. SIDE SLOPES AND WITH A 10-FT WIDE CREST THAT IS CROWNED TO PROVIDE POSITIVE RUNOFF.

4. THE BERM AND ALL DISTURBED AREAS FOR ACCESS SHALL RECEIVE 4" OF TOPSOIL AND TURF ESTABLISHMENT.

5. ADDITIONAL SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

6. PLACEMENT, COMPACTION, AND GRADING OF SURPLUS EXCAVATED MATERIALS FOR THE BERM SHALL BE INCIDENTAL TO ITEM #0202000 - EARTH EXCAVATION. ALL OTHER WORK SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.

7. ANY NEW WORK THAT IS DAMAGED BY BERM CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.



SIGNATURE BLOCK: CHA Consulting, LLP, 281 Edwards Street, Suite 101, Vernon, CT 06066, 518.453.4500, www.chasolutions.com; DESIGNER/DRAFTER: PRP CHECKED BY: JSP	0 20' 40' HORIZONTAL SCALE 1"=20'	CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS	TOWN(S): SOUTHINGTON	DRAWING TITLE: SURPLUS MATERIALS BERM DETAIL	PROJECT NO.: 0131-0211	DRAWING NO.: CIV-10 SHEET NO.: 03.15

REVISION DESCRIPTION | DATE | REV.

LASTED SAVED BY: 5394 **FILE NAME:** \\cha-llp.com\proj\Projects\ANY\K7\089804.000\16_Custom_Client\CT_Connect\Highways\Contract_Plans\FD_CP_0131-0211_ENLARGED PLAN.dgn
PLOTTED DATE: 7/15/2025

TYPE 'C-L' CATCH BASIN
- 0' - 10' DEEP
STA.=56+36.32, 26.94' LT.
TF = 192.97'
INV. IN=188.7 (NW)
INV. IN= 188.7 (SW)
INV. OUT=188.7 (NE)
SUMP ELEV. = 186.7

CONVERT CATCH BASIN TO MANHOLE
STA.=56+44.30, 69.88' LT.
TF = 192.70'
INV. IN= 189.06±
INV. OUT=MATCH EXIST.

SPECIAL ROUND TYPE 'C' CATCH BASIN
- 0' - 10' DEEP
STA.=103+53.01, 30.28' RT.
TF = 193.3'
FL=189.87 (NW)
FL=189.87 (E)
FL=189.77 (SE)
SUMP ELEV. = 187.77'

TYPE 'C' CATCH BASIN
- 0'-10' DEEP
STA.=56+52.63, 89.52' LT.
TF = 194.50'
INV. IN= 189.16±
INV. OUT= MATCH EXIST

59 LF - 15" R.C. PIPE (CLASS V)
- 0' - 10' DEEP, S=0.6%

36 LF - 18" R.C. PIPE - 0'-10' DEEP
S=1.77%

TYPE 'C' CATCH BASIN
- 0' - 10' DEEP
STA.=103+53.03, 34.08' LT.
T.F.=192.80'
INV. OUT=190.1'(W)

SPECIAL ROUND TYPE 'C' CATCH BASIN -0' -10' DEEP
STA.=56+52.82, 16.57' LT.
TF = 193.96'
INV. IN=188.07 (SW)
INV. OUT=188.07 (N)
SUMP ELEV. = 186.07'

MATCH MARK - SEE DRAWING NO. DRN-02

STONE CHECK DAM

WATER QUALITY SWALE

TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP WITH TRASH RACK
STA.=16+93.46, 22.96' RT.
TF = 191.25'
INV. OUT=188.00
SUMP ELEV. = 186.00

10' EASEMENT GRANTED TO THE CONN LIGHT & POWER CO

SPECIAL ROUND TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=58+55.29, 61.32' LT.
TF = 191.00'
INV. IN=185.3' (SW)
INV. IN=187.5' (S)
INV. OUT=185.3' (N)
SUMP ELEV. = 183.3'

21" R.C. DRAINAGE PIPE END
STA.=16+41.95, 35.02' RT.
INV. = 187.00'

STORMWATER POND #3
(SEE DWG. NOS. DRN-04 & DRN-05 FOR MORE DETAILS)

SEE INSET PLAN, DWG. NO. DRN-04

TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=59+90, 52.38' LT.
TF = 188.84'
INV.IN/OUT= 183.5

TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP
STA.=58+85.38, 83.65' RT.
TF = 190.65'
INV.IN=184.25 (NE)
INV. OUT=184.25 (SW)
SUMP ELEV. =182.15

145 LF - 21" R.C. PIPE (CLASS V) - 0'-10' DEEP
S=0.66%

PREFORMED SCOUR HOLE
STA.=14+80.74, 38.83 RT.

STRAIGHT END WALL
STA.= 14+68.77, 35.83 RT.
INV.=184.2

MANHOLE (5' DIAMETER)
- 0' - 10' DEEP
STA.=60+50.32, 55.55' RT.
TF.= 189.86'
INV. IN= 182.5' (W)
INV. OUT=182.5' (SE)

56 LF - 24"X38" R.C. PIPE ELLIPTICAL - 0' - 10' DEEP
S=0.8%

TYPE 'C' CATCH BASIN - 0' - 10' DEEP
STA.=58+20.58, 20.00' LT.
TF = 192.52'
INV. OUT=189.5
SUMP ELEV. = 187.5'

51 LF - 15" R.C. PIPE - 0'-10' DEEP
S=3.6%

PREFORMED SCOUR HOLE
STA.=16+31.24, 38.10 RT.

TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP
STA.=57+10.86, 83.10' RT.
TF = 192.14'
INV. IN= 187.45
INV. OUT=184.15
SUMP ELEV. = 182.15

ABANDON DRAINAGE STRUCTURE

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP, CUT AND PLUG PIPE

TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP
STA.=56+16.68, 83.93' RT.
TF = 192.84'
INV. OUT=188.10
SUMP ELEV. = 186.10'

66 LF - 24" R.C. PIPE - 0' - 10' DEEP
S=0.7%

HYDRODYNAMIC SEPARATOR SITE NO. 2

MANHOLE (5' DIAMETER) - 0'-10' DEEP
STA.=57+82.13, 83.22' RT
TF = 191.53'
INV. IN= 183.65'(N)
INV. IN=183.65' (S)
INV. OUT=183.65

SEE INSET PLAN, DWG. NO. DRN-04

HYDRODYNAMIC SEPARATOR SITE NO. 1

90 LF - 18" R.C. PIPE - 0' - 10' DEEP
S=0.7%

PREFORMED SCOUR HOLE
STA.=57+73.84, 151.50 RT.

97 LF - 24" R.C. PIPE - 0' - 10' DEEP
S=0.6%

PREFORMED SCOUR HOLE
STA.=60+48.15, 139.11 RT.

STORMWATER POND #2
(SEE DWG. NOS. DRN-04 & DRN-05 FOR MORE DETAILS)

TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP
STA.=60+36.99, 83.96' RT.
TF = 188.97'
INV. OUT=185.25
SUMP ELEV. = 183.25'

70 LF - 24" R.C. PIPE
0'-10" DEEP, S=0.4%

24" R.C. DRAINAGE PIPE END
STA.=60+46.93, 127.75 RT.
INV.=182.00

MANHOLE (6' DIAMETER) - 0' - 10' DEEP
STA.=14+37.37, 13.88' LT.
TF = 188.6'
INV. IN= 184.9 (S)
INV. IN= 183.75 (W)
INV. IN= 183.75 (N)
INV. OUT=183.7 (E)

68 LF - 24" x 38" R.C. PIPE ELLIPTICAL CLASS V - 0' - 10' DEEP - S=0.8%

35' D.R.O.W. RIGHT TO MAINTAIN DRAINAGE FACILITIES (EASEMENT B)

TYPE 'C-L' CATCH BASIN TOP, RESET TYPE 'C-L' CATCH BASIN

STRAIGHT ENDWALL
STA.=62+05.43, 37.52' RT.
INV.=183.15

TYPE C RIPRAP APRON
STA.=62+02.17, 46.18' RT.

MATCH MARK - SEE DRAWING NO. DRN-03

COORDINATE GRID

CONNECTICUT

LEGEND:

- SEDIMENT CONTROL SYSTEM AT CATCH BASIN
- SEDIMENTATION CONTROL SYSTEM
- REMOVE EXISTING PIPE - 0' - 10' DEEP
- ANTI-TRACKING PAD
- EROSION CONTROL MATTING - TYPE B

GENERAL NOTES

1. FOR GENERAL NOTES SEE DWG. NO. DRN-02
2. FIELD LOCATE MANHOLE AT STA. 14+37.37, 13.88' LT. TO CONNECT TO EXISTING DRAINAGE PIPES IN NORTH AND SOUTH

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

MCA MARTINEZ COUCH & ASSOCIATES, LLC

DESIGNER/DRAFTER: MBR/FV CHECKED BY: REC

0 30 60
HORIZONTAL SCALE 1" = 30'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

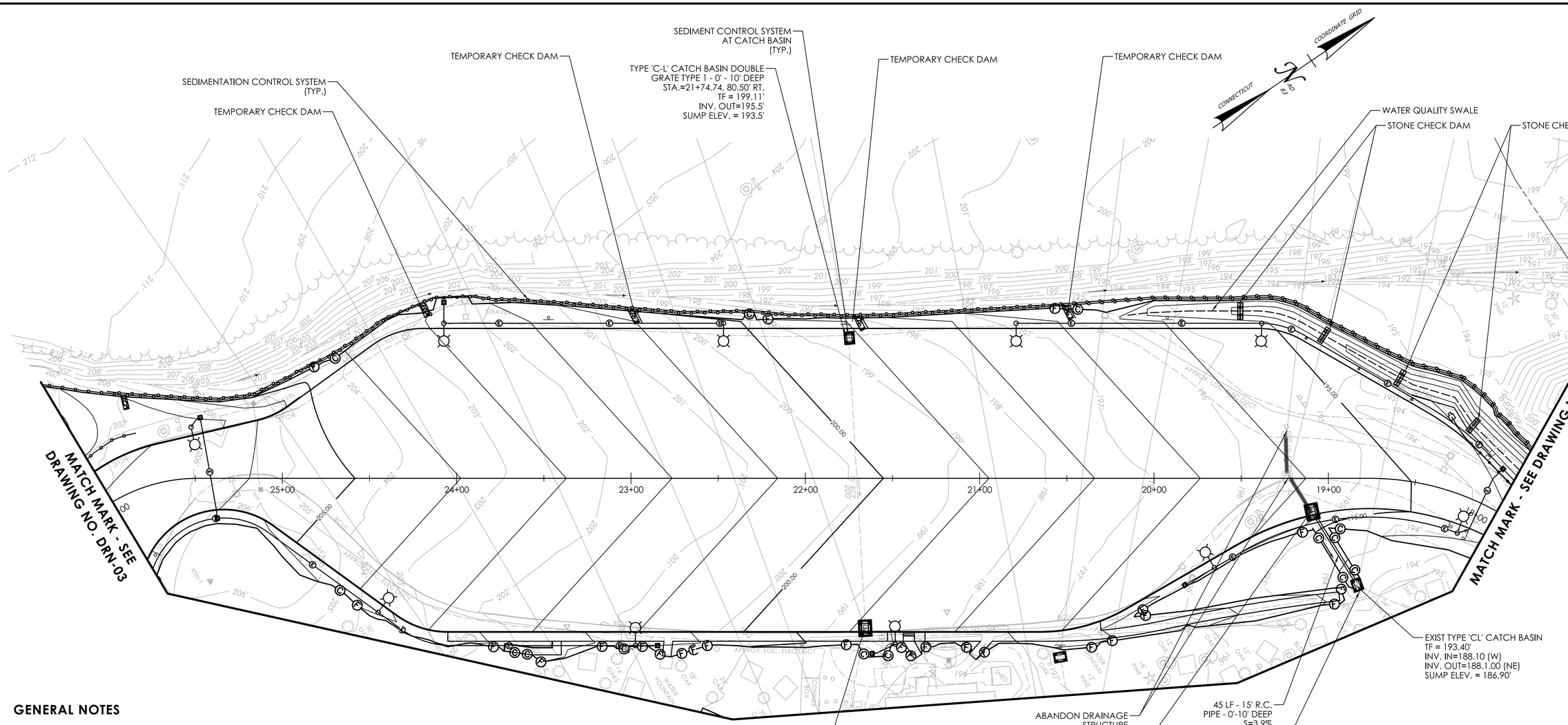
DRAWING TITLE: GRADING AND DRAINAGE PLANS

PROJECT NO.: 0131-0211

DRAWING NO.: DRN-01

SHEET NO.: 03.16

LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_DRAINAGE.dgn
PLOTTED DATE: 7/15/2025



GENERAL NOTES

1. PROVIDE A CONCRETE PIPE CONNECTION WHERE CONNECTING A NEW RCP TO AN EXISTING RCP PIPE OR A PIPE OF ANOTHER MATERIAL OR SIZE OR WHERE DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER ITEM #0686900 - CONCRETE PIPE CONNECTION
2. SEDIMENTATION CONTROL SYSTEM TO BE PLACED AT ALL CATCH BASINS IN PROJECT AREA. A DOUBLE ROW OF SEDIMENTATION CONTROL BARRIER SHALL BE UTILITIZED BETWEEN ANY DISTURBED AREA AND DOWNGRADIENT WETLAND WITHIN 50', UNLESS THERE WOULD BE ADDITIONAL WETLAND IMPACT TO ADJACENT WETLANDS DUE TO INSTALLATION OF A DOUBLE ROW.
3. ADDITIONAL EROSION CONTROL BARRIERS MAY ALSO BE REQUIRED WITHIN THE PROJECT AREA AS DIRECTED BY THE ENGINEER. FACTORS TO BE REVIEWED BY THE ENGINEER INCLUDE BUT ARE NOT LIMITED TO: THE CONSTRIBUTING DISTURBED AREA, DRAINAGE AREA, LENGTH OF SLOPE, AND FLOW CONDITIONS TO MAINTAIN SHEET FLOW. IF DETERMINED NECESSARY THE ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL AND MAINTAIN ADDITIONAL ROWS OF EROSION CONTROL BARRIER.
4. SEE SITE PLANS, LIGHTING AND UTILITY PLANS FOR ADDITIONAL INFORMATION ON PAVING , SITE IMPROVEMENTS, LIGHT STANDARD FOUNDATIONS, ELECTRICAL CONDUIT, HANDHOLES AND ASSOCIATED WORK.
5. AFTER REMOVAL OF THE SEDIMENT CONTROL AT CATCH BASIN SYSTEM DEVICES FROM THE EXISTING CATCH BASINS, THE CONTRACTOR SHALL CLEAN THE CATCH BASINS AND ANY DOWNSTREAM EXISTING PIPES , MANHOLES, OR CATCH BASINS WITHIN THE PROJECT LIMITS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE PAID UNDER ITEM #0653001 - CLEANING EXISTING CATCH BASINS, ITEM #0653010 - CLEANING EXISTING MANHOLE, AND ITEM #0653100- CLEAN EXISTING CULVERT - 12" TO 42" DIAMETER.
6. PAYMENT FOR THE REMOVAL OF EXISTING DRAINAGE PIPES WILL BE MADE WHERE APPLICABLE IN ACCORDANCE WITH SECTION 6.86 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR THE REMOVAL OF EXISTING CONCRETE DRAINAGE STRUCTURES WILL BE MADE UNDER ITEM #0286001.10 - ROCK IN DRAINAGE TRENCH EXCAVATION - 0' - 10' DEEP IN ACCORDANCE WITH SECTION 2.86 OF THE STANDARD SPECIFICATIONS.
7. DRAINAGE TRENCH EXCAVATIONS LOCATED IN EXISTING BITUMINOUS CONCRETE PAVEMENT AND OUTSIDE THE LIMITS OF FULL DEPTH PAVEMENT CONSTRUCTION SHOWN ON THE PLANS SHALL BE BACKFILLED AND SHALL RECEIVE THE SAME FULL DEPTH TYPICAL SECTION AS SHOWN FOR THE NEW TRUCK PARKING LOT SHOWN ON DWG. NO. TYP-01.
8. SEE PLANS ON DWG. NO. DRN-04 FOR ADDITIONAL INFORMATION ON STORMWATER PONDS.
9. PREFORMED SCOUR HOLE PAID UNDER ITEMS #0202000 - EARTH EXCAVATION, #0213100 - GRANULAR FILL, #0703012 - MODIFIED RIPRAP, AND #0755014.01 - GEOTEXTILE (SEPARATION - CLASS 1.

LEGEND:

- SEDIMENT CONTROL SYSTEM AT CATCH BASIN
- SEDIMENTATION CONTROL SYSTEM
- REMOVE EXISTING PIPE - 0' - 10' DEEP
- ANTI-TRACKING PAD
- EROSION CONTROL MATTING - TYPE B

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: MBR/FV CHECKED BY: REC

HORIZONTAL SCALE 1" = 30' (0, 30, 60)

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

DRAWING TITLE: **GRADING AND DRAINAGE PLANS**

PROJECT NO.: **0131-0211**

DRAWING NO.: **DRN-02**

SHEET NO.: **03.17**

LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_DRAINAGE.dgn
PLOTTED DATE: 7/15/2025

GENERAL NOTES

1. FOR GENERAL NOTES SEE DWG. NO. DRN-02

TEMPORARY CHECK DAM

SURPLUS MATERIALS BERM.
SEE DWG. NO. CIV-10 FOR DETAILS

MATCH MARK - SEE DRAWING NO. DRN-02

TYPE 'C-L' DROP INLET - 0' - 10' DEEP
STA.=51+72.77, 30.04' RT.
TF = 201.26'
INV. IN= 197.25 (NW)
INV. OUT=197.15 (E)
SUMP ELEV. = 197.15'

SEDIMENT CONTROL SYSTEM AT CATCH BASIN (TYP.)

TYPE 'C' CATCH BASIN - 0'-10' DEEP
STA.=51+03.65, 135.24' RT.
TF = 203.15'
INV. OUT=198.7
SUMP ELEV. = 196.70'

TEMPORARY CHECK DAM (TYP.)

SEDIMENTATION CONTROL SYSTEM (TYP.)

126 LF - 18" R.C. PIPE 0'-10" DEEP
S=2.3%

TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=52+95.34, 30.00' RT.
TF = 198.23'
INV. IN= 194.20
INV. OUT=194.00
SUMP ELEV. = 192.00'

TYPE 'C' CATCH BASIN - 0' - 10' DEEP
STA.=STA.=53+78.16, 0.00' RT.
TF = 197.20'
INV. IN= 192.52 (NW)
INV. OUT=192.45 (SE)
SUMP ELEV. = 190.45'

101 LF - 18" R.C. PIPE 0'-10' DEEP
S=1.9%

36 LF - 15" R.C. PIPE - 0'-10' DEEP
S=0.6%

SPECIAL ROUND TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=53+93.83, 33.82' RT.
TF = 196.34'
INV. IN= 192.30 (W)
INV. IN=192.00 (S)
INV. OUT=192.00 (E)
SUMP ELEV. = 190.00'

TYPE 'C' CATCH BASIN - 0'-10' DEEP
STA.=52+87.50, 140.00' RT.
TF = 197.2'
INV. IN= 191.90'
INV. OUT=191.90'
SUMP ELEV. = 189.10'

ABANDON DRAINAGE STRUCTURE

160 LF - 15" R.C. PIPE 0'-10' DEEP,
S=0.6%

MANHOLE (5' DIAMETER) - 0'-10' DEEP
STA.=54+23.37, 103.141' RT
TF = 194.0'
INV. IN= 190.90'(SW)
INV. IN=189.85 (N)
INV. OUT=189.85

TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=51+38.10, 30.06' LT.
TF = 202.41'
INV. OUT=199.16 (S)
SUMP ELEV. = 197.16'

9 LF - 15" R.C. PIPE - 0'-10" DEEP
S=1.3%

TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP
STA.=51+42.75, 18.43' LT.
TF = 202.25'
INV. IN= 199.00 (NW)
INV. OUT=198.65 (S)
SUMP ELEV. = 196.65'

54 LF - 15" R.C. PIPE - 0'-10" DEEP
S=2.5%

ABANDON DRAINAGE STRUCTURE

20 LF - 18" R.C. PIPE
0'-10' DEEP
S=3.0%

15 LF - 24" R.C. PIPE 0'-10' DEEP,
S=6.0%

24" R.C. DRAINAGE PIPE END
STA.=54+34.25, 113.47' RT., INV.=189.0'

PREFORMED SCOUR HOLE
STA.=54+39.94, 118.5' RT.

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP
SEE INSET PLAN, DWG. NO. DRN-04
REMOVE EXISTING PIPE - 0' - 10' DEEP (TYP.)

TYPE 'C' CATCH BASIN - 0' - 10' DEEP
STA.=53+78.26, 20.06' LT.
TF = 197.35'
INV. OUT=192.85 (SE)
SUMP ELEV. = 190.85'

64 LF - 18" R.C. PIPE - 0'-10" DEEP
S=3.5%

TYPE 'C' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP
STA.=54+35.73, 82.83' RT.
TF = 194.50'
INV. IN= 190.6 (NW)
INV. OUT=190.60
SUMP ELEV. = 188.60'

TYPE 'C' CATCH BASIN - 0' - 10' DEEP
STA.=106+44.67, 29.77 RT.
TF = 199.25'
INV. OUT=195.9'
SUMP ELEV. = 193.9'

85 LF - 15" R.C. PIPE - 0'-10' DEEP
S=2.8%

TYPE 'C' CATCH BASIN - 0'-10' DEEP
STA.=105+62.86, 31.86 R.T.
TF=197.59'
INV IN.=193.5(W)
INV IN.=193.5(NW)
INV. OUT=193.3(S)
SUMP ELEV.=191.3'

TYPE 'C-L' CATCH BASIN - 0-10' DEEP
STA.=55+09.39, 37.08 L.T.
TF = 194.70'
INV. IN= 190.43 (W)
INV. OUT=190.4 (E)
SUMP ELEV=188.40'

49 LF - 18" R.C. PIPE - 0'-10' DEEP S=1.9%

TYPE 'C' CATCH BASIN - 0' - 10' DEEP
STA.=55+60.64, 20.00' LT.
TF = 194.68'
INV. IN= 189.50 (W)
INV. OUT=189.50 (E)
SUMP ELEV. = 187.50'

69 LF - 18" R.C. PIPE - 0' - 10' DEEP
S=1.1%

MATCH MARK - SEE DRAWING NO. DRN-01

REMOVE DRAINAGE STRUCTURE

STORMWATER POND #1
(SEE DWG. NOS. DRN-04 & DRN-05 FOR MORE DETAILS)

CONVERT CATCH BASIN TO MANHOLE
STA.=55+64.72, 92.24' RT.
TF = 192.40'
INV. IN= 186.47
INV. OUT=186.37

58 LF - 24" R.C. PIPE - 0' - 10' DEEP
S=2.67%

REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP

CONNECTICUT
COORDINATE GRID
AD 83

LEGEND:

- SEDIMENT CONTROL SYSTEM AT CATCH BASIN
- SEDIMENTATION CONTROL SYSTEM
- REMOVE EXISTING PIPE - 0' - 10' DEEP
- ANTI-TRACKING PAD
- EROSION CONTROL MATTING - TYPE B

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: MBR/FV CHECKED BY: REC

0 30 60
HORIZONTAL SCALE
1" = 30'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

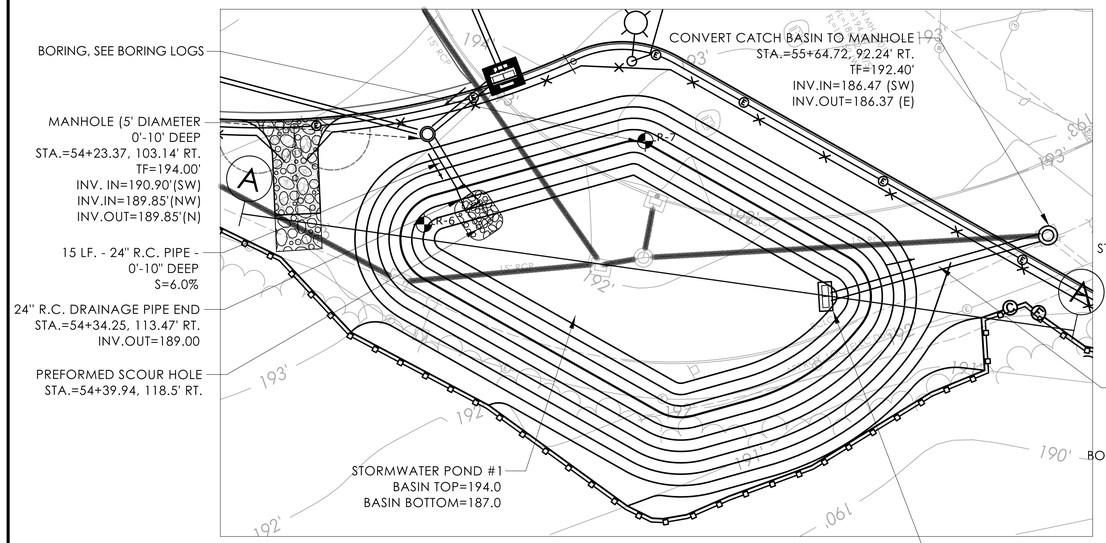
DRAWING TITLE: **GRADING AND DRAINAGE PLANS**

PROJECT NO.: **0131-0211**

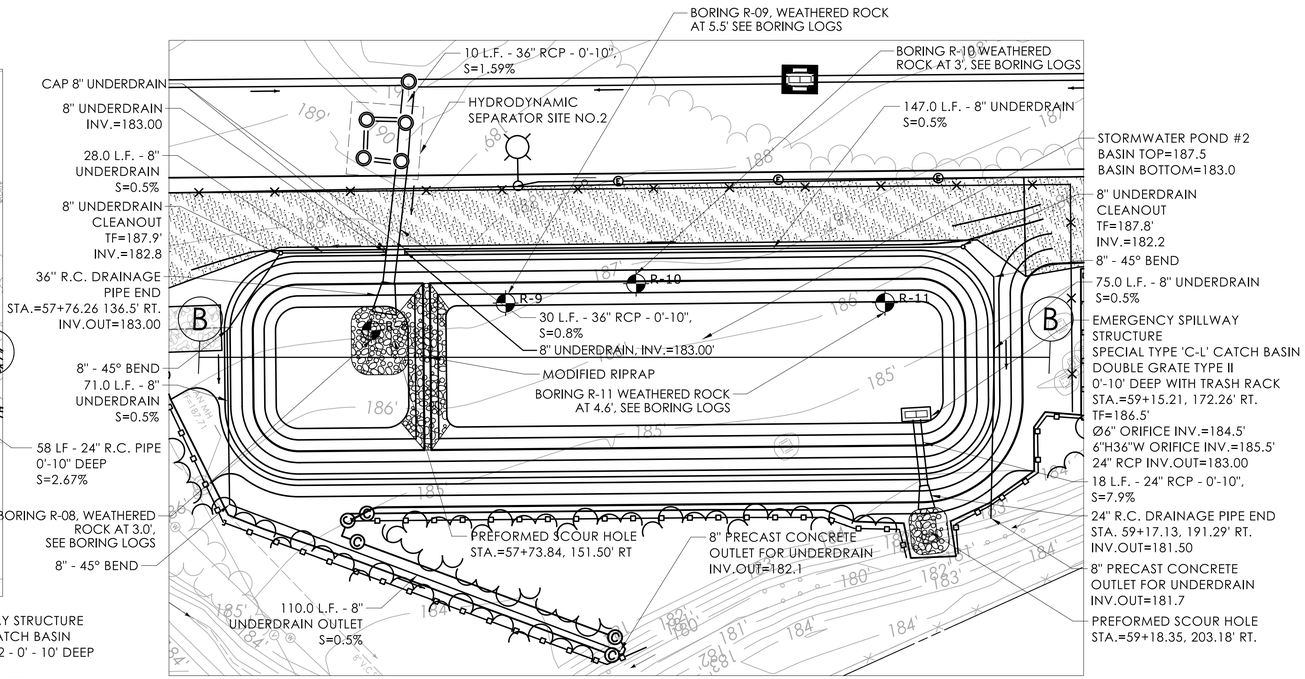
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SHEET NO.: **03.18**

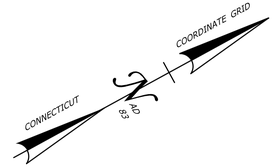
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PLOTTED DATE: 7/15/2025



PROPOSED STORMWATER POND #1



PROPOSED STORMWATER POND #2





PROPOSED STORMWATER POND #3

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: FV/MBR CHECKED BY: REC

HORIZONTAL SCALE 1" = 20' (0, 20, 40)

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

DRAWING TITLE: **STORMWATER POND PLAN**

PROJECT NO.: **0131-0211**

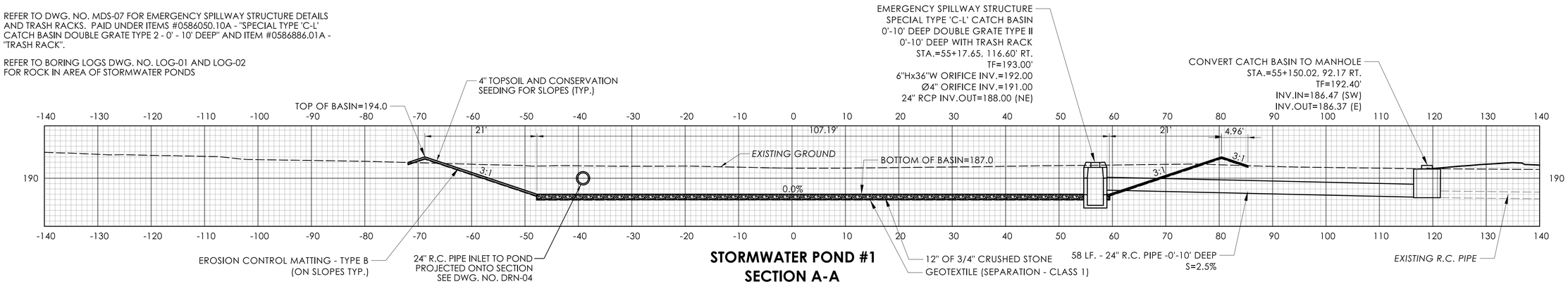
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SHEET NO.: **03.19**

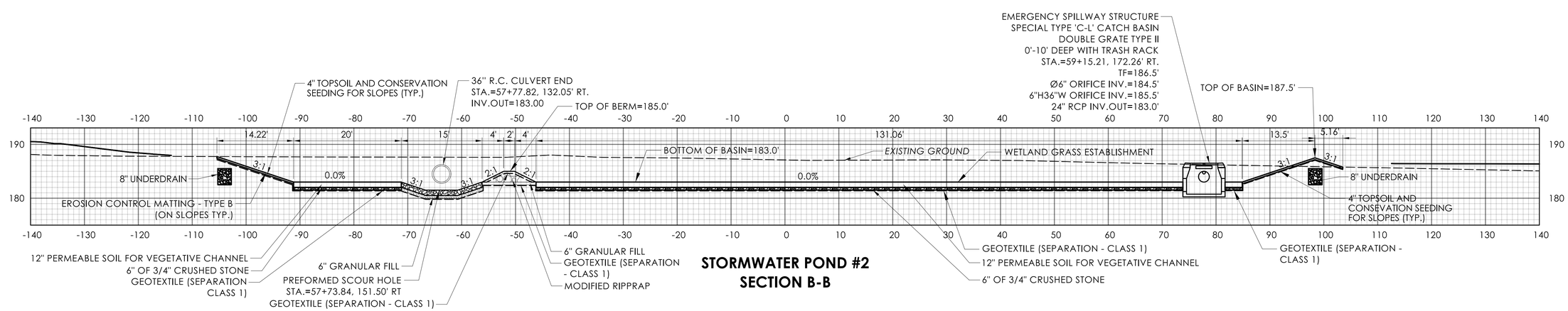
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PLOTTED DATE: 7/15/2025

GENERAL NOTES

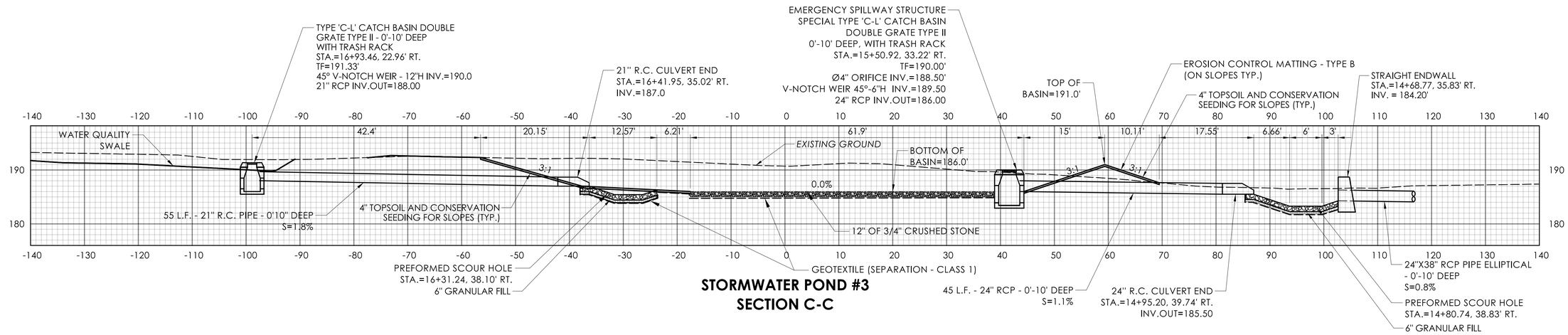
1. REFER TO DWG. NO. MDS-07 FOR EMERGENCY SPILLWAY STRUCTURE DETAILS AND TRASH RACKS. PAID UNDER ITEMS #0586050.10A - "SPECIAL TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE 2 - 0' - 10' DEEP" AND ITEM #0586886.01A - "TRASH RACK".
2. REFER TO BORING LOGS DWG. NO. LOG-01 AND LOG-02 FOR ROCK IN AREA OF STORMWATER PONDS



STORMWATER POND #1
SECTION A-A



STORMWATER POND #2
SECTION B-B



STORMWATER POND #3
SECTION C-C

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: FV/MBR CHECKED BY: REC

HORIZONTAL SCALE 1" = 10'

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

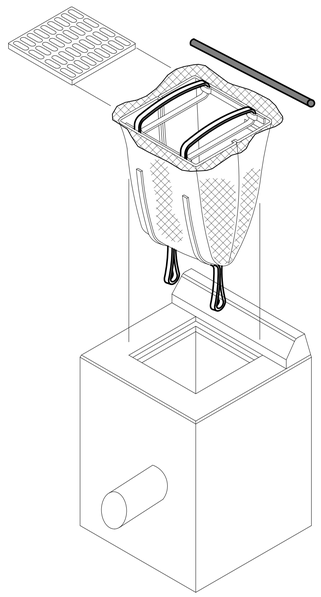
DRAWING TITLE: **STORMWATER POND SECTIONS**

PROJECT NO.: **0131-0211**

DRAWING NO.: **DRN-05**

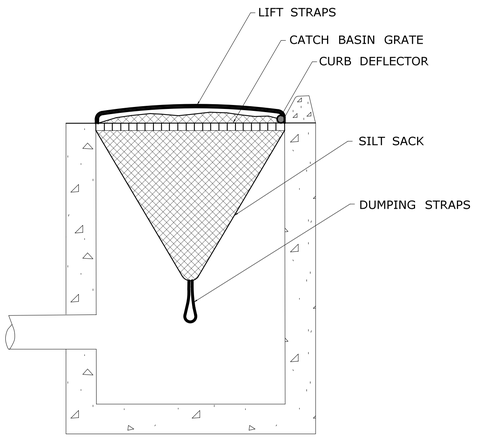
SHEET NO.: **03.20**

LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_PONDS.dgn
PLOTTED DATE: 7/15/2025



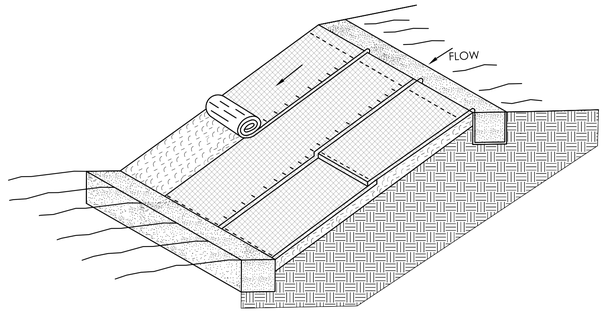
INLET SEDIMENT CONTROL DEVICE AT TYPE "C" OR "C-L" CATCH BASIN

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT CONTROL SYSTEM AT CATCH BASIN.

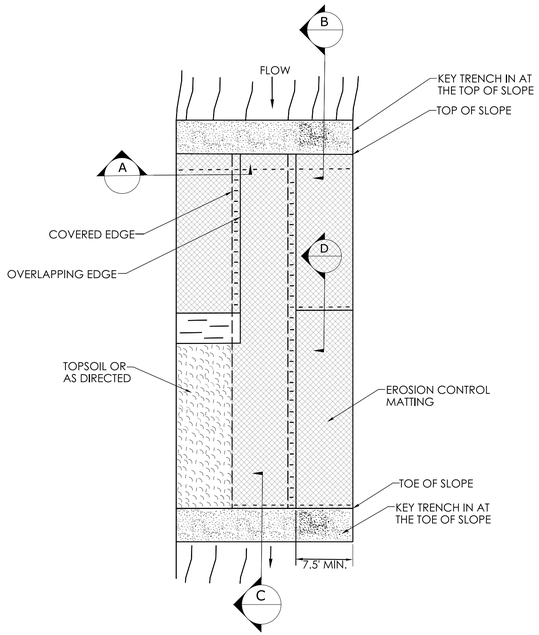


SECTION

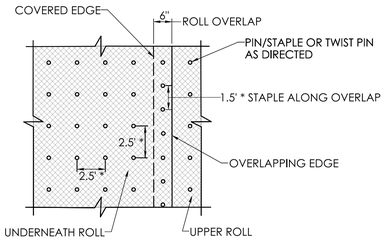
EROSION CONTROL MEASURES AT CATCH BASINS



TYPICAL EROSION CONTROL MATTING

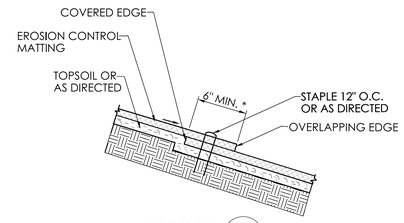


PLAN

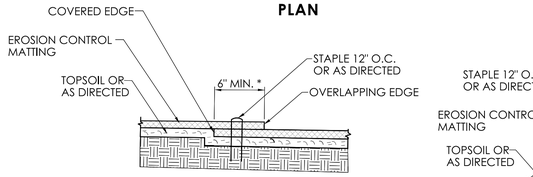


STAPLE PATTERN

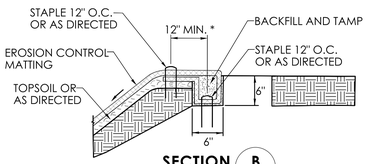
* USE THE MINIMUM DIMENSIONS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER.



SECTION D



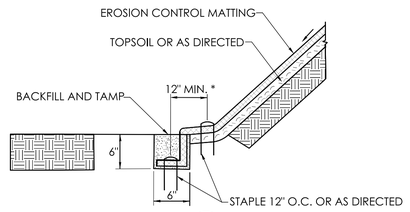
SECTION A



SECTION B

KEY IN TRENCH AT TOP OF SLOPE

* USE THE MINIMUM DIMENSIONS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER.



SECTION C

KEY TRENCH AT TOE OF SLOPE

EROSION CONTROL MATTING

REV	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: FV/MBR CHECKED BY: REC

NOT TO SCALE

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

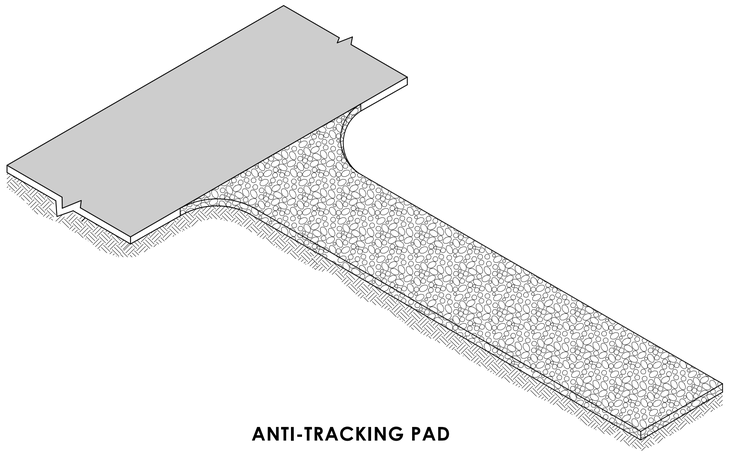
DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL DETAILS

PROJECT NO.: 0131-0211

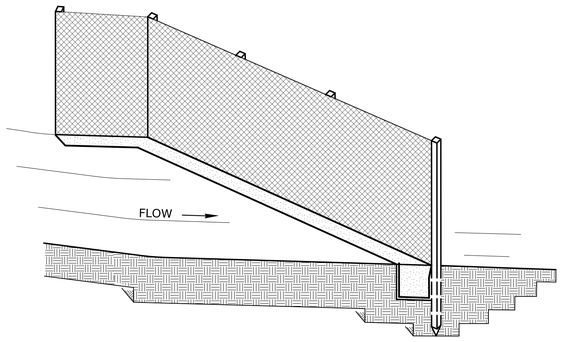
DRAWING NO.: MDS-04

SHEET NO.: 03.34

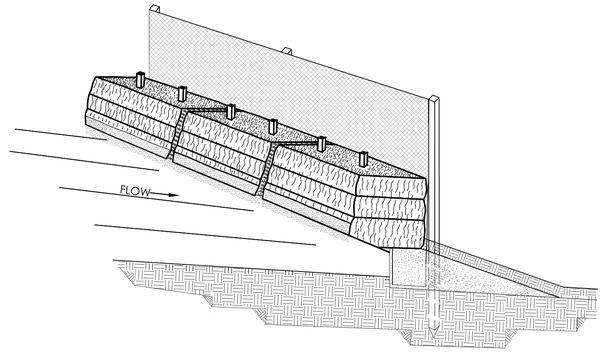
LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_MDS-Details.dgn
PLOTTED DATE: 7/15/2025



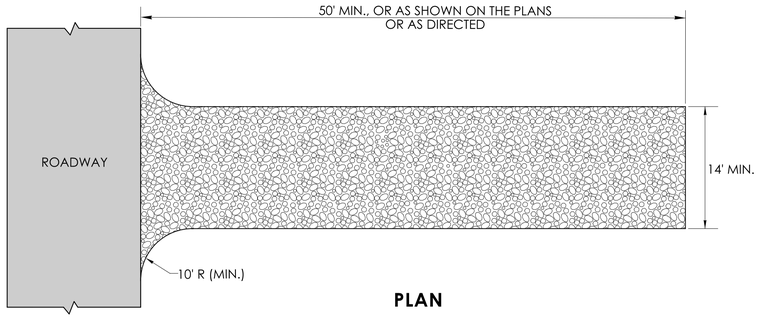
ANTI-TRACKING PAD



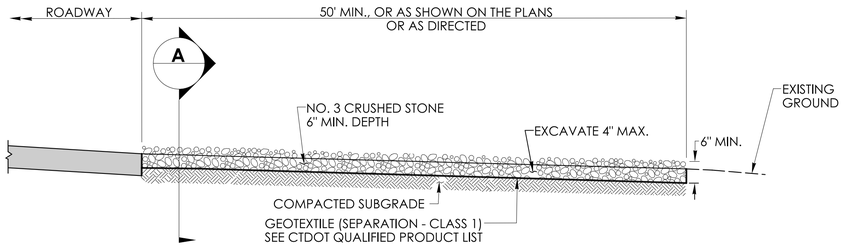
SEDIMENTATION CONTROL SYSTEM



DOUBLE ROW OF HAY BALES AND GEOTEXTILE FABRIC FENCE



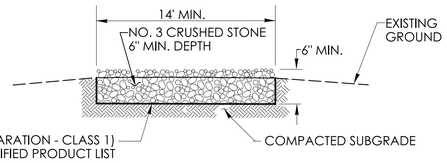
PLAN



ELEVATION

GENERAL NOTE:

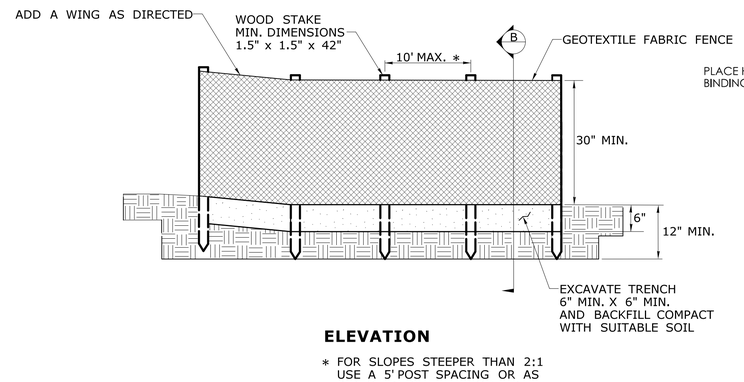
1. THE LENGTH OF THE ANTI-TRACKING PAD SHALL BE INCREASED AS DIRECTED FOR SITES COMPOSED OF CLAY OR SILTS.



SECTION A

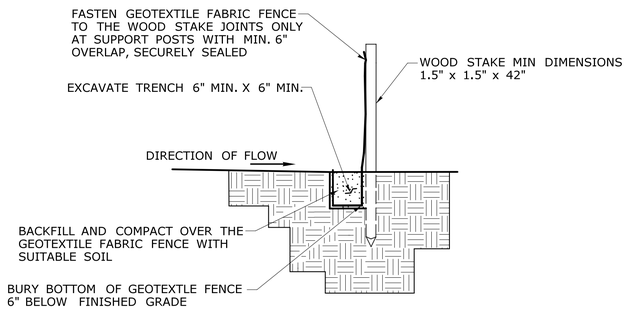
ANTI-TRACKING PAD

INSTALL THE WING WHEN THE FENCE IS MORE THAN 4' FROM THE TOE OF SLOPE AND THE FENCE LINE GRADIENT IS 5% OR MORE.

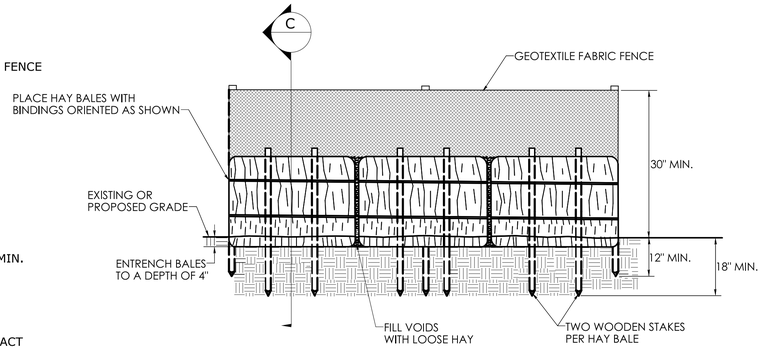


ELEVATION

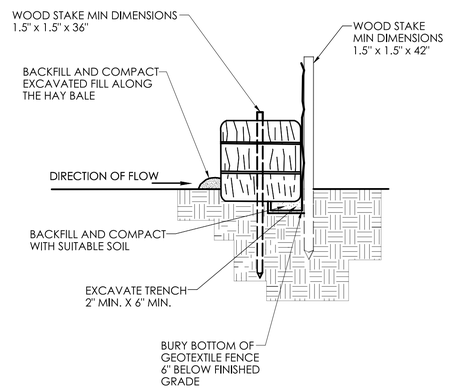
* FOR SLOPES STEEPER THAN 2:1 USE A 5' POST SPACING OR AS DIRECTED BY THE ENGINEER.



SECTION B



ELEVATION



SECTION C

SEDIMENTATION CONTROL SYSTEMS

GENERAL NOTE:

1. USE THE MINIMUM DIMENSIONS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: FV/MBR CHECKED BY: REC

NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

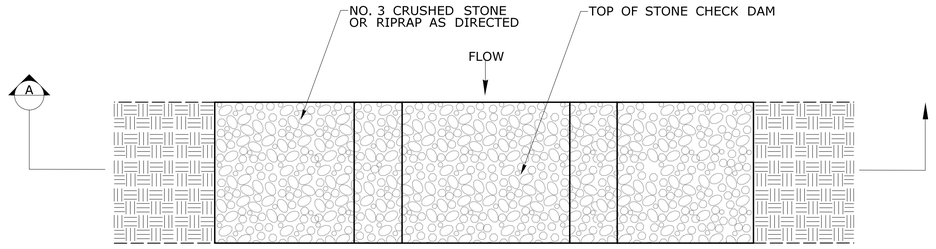
DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL DETAILS

PROJECT NO.: 0131-0211

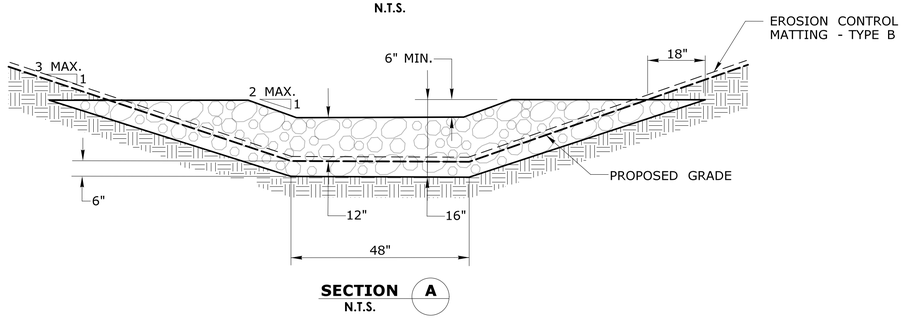
DRAWING NO.: MDS-05

SHEET NO.: 03.35

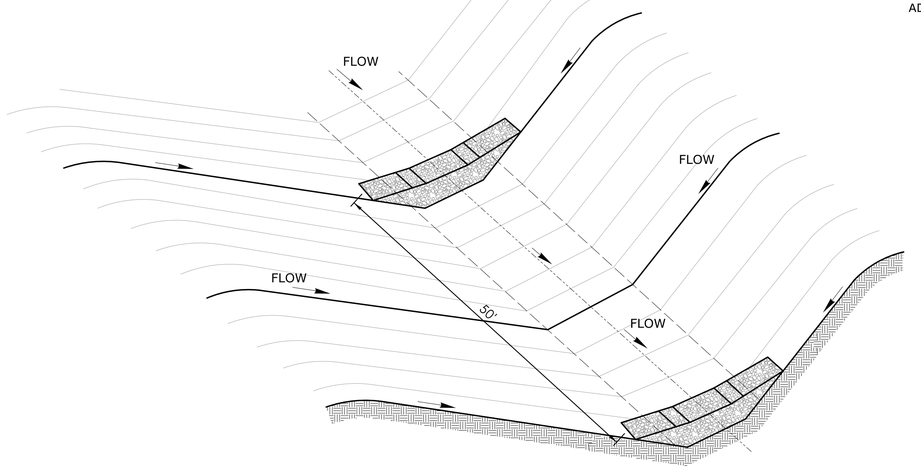
LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_MDS-Details.dgn
PLOTTED DATE: 7/15/2025



PLAN
N.T.S.

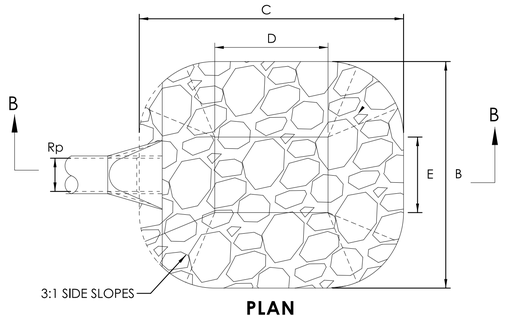


SECTION A
N.T.S.

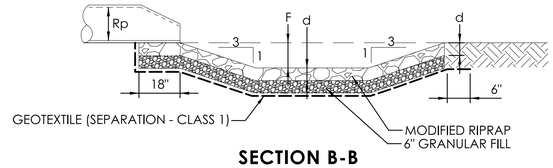


NOTE
STONE CHECK DAM TO BE PAID FOR UNDER ITEM #0210116A.

STONE CHECK DAM
FOR WATER QUALITY SWALE
N.T.S.



PLAN
N.T.S.

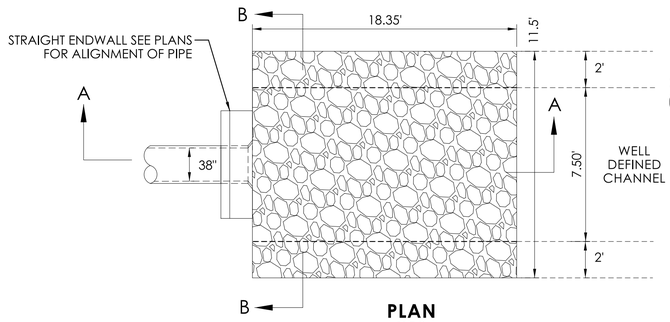


SECTION B-B

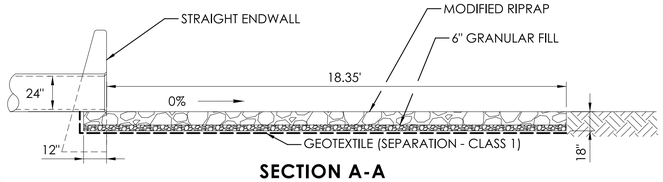
STATION, RT./LT.	Rp	B	C	D	E	F	d
STA. 16+31.24, 38.10' RT.	21"	8.75'	10.50'	5.25'	3.50'	0.88'	12"
STA. 14+80.74, 38.33' RT.	24"	10.00'	12.00'	6.00'	4.00'	1.00'	12"
STA. 54+39.94, 118.5' RT.	24"	10.00'	12.00'	6.00'	4.00'	1.00'	12"
STA. 57+73.84, 151.50' RT.	36"	15.00'	18.00'	9.00'	6.00'	1.50'	12"
STA. 59+18.35, 203.18 RT.	24"	10.00'	12.00'	6.00'	4.00'	1.00'	12"
STA. 60+48.15, 139.11 RT.	24"	10.00'	12.00'	6.00'	4.00'	1.00'	12"

NOTE:
RIPRAP PAID FOR UNDER ITEM #0703012 - MODIFIED RIPRAP.
GEOTEXTILE PAID FOR UNDER UNDER ITEM #0755014.01 - GEOTEXTILE (SEPARATION - CLASS 1).

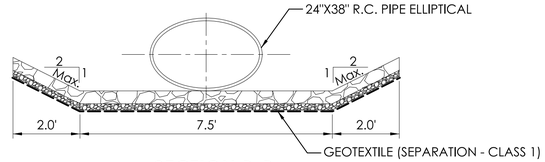
PREFORMED SCOUR HOLE
N.T.S.



PLAN
N.T.S.



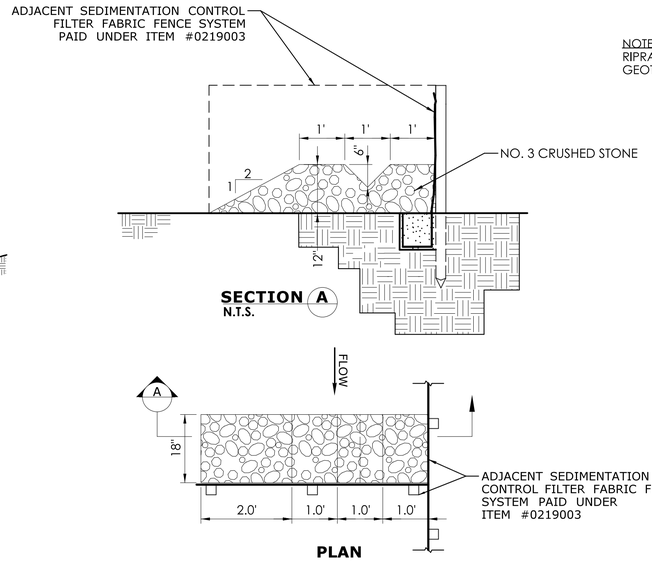
SECTION A-A



SECTION B-B

NOTE:
RIPRAP PAID FOR UNDER ITEM #0703012 - MODIFIED RIPRAP.
GEOTEXTILE PAID FOR UNDER UNDER ITEM #0755014.01 - GEOTEXTILE (SEPARATION - CLASS 1).

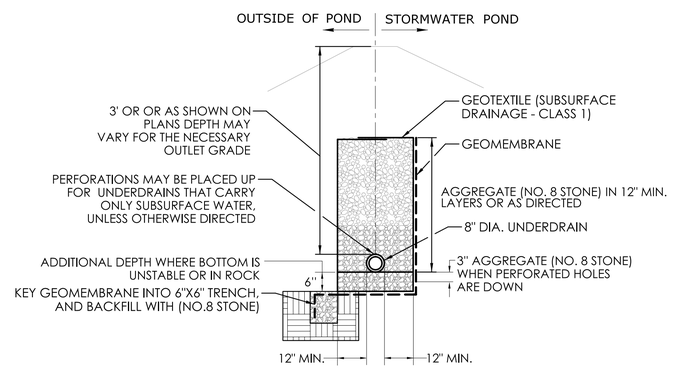
RIPRAP APRON - TYPE C
N.T.S.



PLAN
N.T.S.

NOTE
TEMPORARY CHECK DAM TO BE PAID FOR UNDER ITEM #0210106A.

TEMPORARY CHECK DAM AT SEDIMENTATION CONTROL SYTEM
N.T.S.



NOTE:
GEOTEXTILE PAID FOR UNDER ITEM #0751712 - 8" UNDERDRAIN.
GEOMEMBRANE PAID FOR UNDER ITEM #0755031A - GEOMEMBRANE.

8" UNDERDRAIN SECTION AT STORMWATER POND #2
N.T.S.

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK: | DESIGNER/DRAFTER: | CHECKED BY:

NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

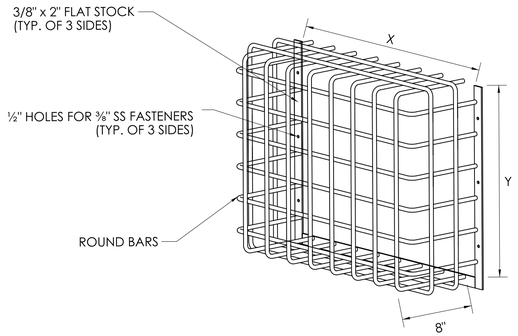
DRAWING TITLE: MISCELLANEOUS DETAILS SHEET

PROJECT NO.: 0131-0211

DRAWING NO.: MDS-06

SHEET NO.: 03.36

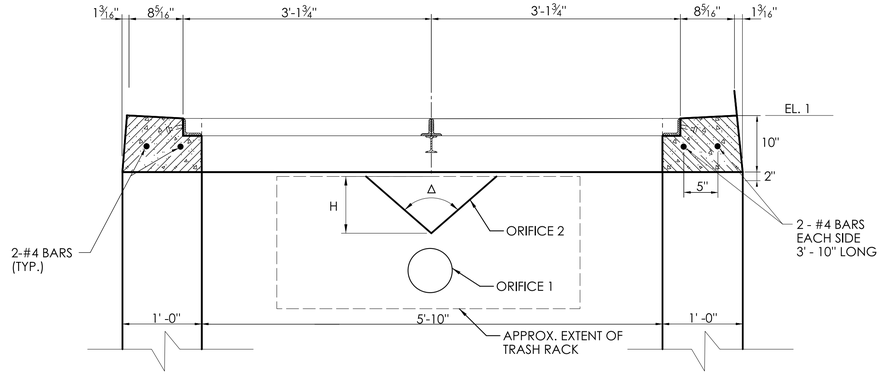
LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_MDS-Details.dgn
PLOTTED DATE: 7/15/2025



CATCH BASIN	X	Y
STA. 15+50.92, 33.22' RT.	24"	24"
STA. 16+93.46, 22.96 RT.	24"	16"
STA. 55+17.65, 116.60' RT.	42"	24"
STA. 59+15.20, 172.26' RT.	42"	24"

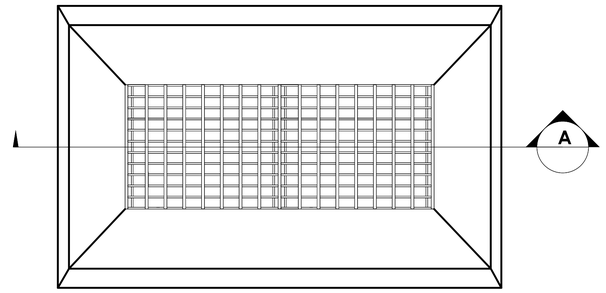
TRASH RACK FOR SPECIAL TYPE 'C-L' CATCH DOUBLE GRATE TYPE II BASIN DETAIL
N.T.S.

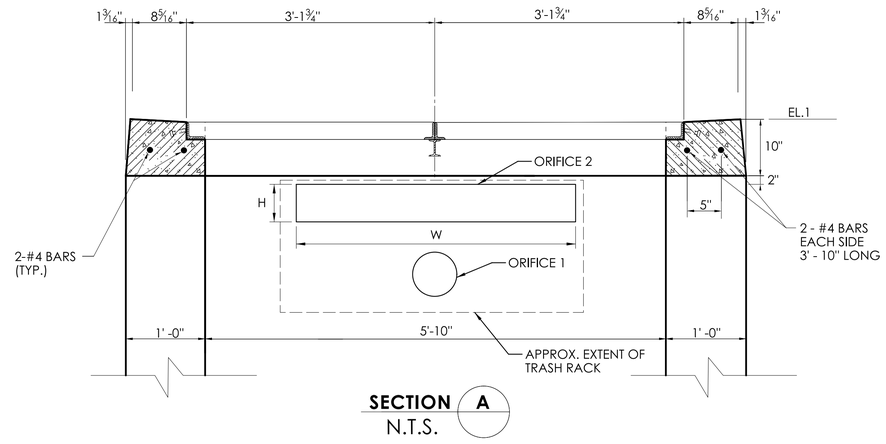
TRASH RACK NOTES
FASTEN TO CONCRETE STRUCTURE WITH ⅜" STAINLESS STEEL CONCRETE WEDGE ANCHORS AT 18" MAX. SPACING AND 2" MINIMUM NOMINAL EMBEDMENT. HOLE LOCATIONS SHALL BE SET TO PROVIDE THE MANUFACTURER'S MINIMUM EDGE DISTANCE FROM THE EDGES OF CONCRETE.
TRASH RACK PAID FOR UNDER ITEM #0586886.01A.



CATCH BASIN	ORIFICE #1		ORIFICE #2			
	INV.	Ø	INV.	H	Δ	EL.1
STA. 15+50.92, 33.28' RT.	188.5	4"	189.5	6"	45°	190.0
STA. 16+93.46, 22.96 RT.	N/A	N/A	189.0	12"	45°	191.33

SPECIAL TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE II WITH V-NOTCH & CIRCULAR ORIFICE DETAILS
N.T.S.





SECTION A
N.T.S.

CATCH BASIN	ORIFICE #1		ORIFICE #2			
	INV.	Ø	INV.	H	W	EL.1
STA. = 55+17.65, 116.60' RT.	191'	4"	192'	6"	36"	193'
STA. = 59+15.21, 172.26' RT.	184.5'	6"	185.5'	6"	36"	186.5'

SPECIAL TYPE 'C-L' CATCH BASIN DOUBLE GRATE TYPE II WITH RECTANGULAR & CIRCULAR ORIFICE DETAILS
N.T.S.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:
DESIGNER/DRAFTER: CHECKED BY:

NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

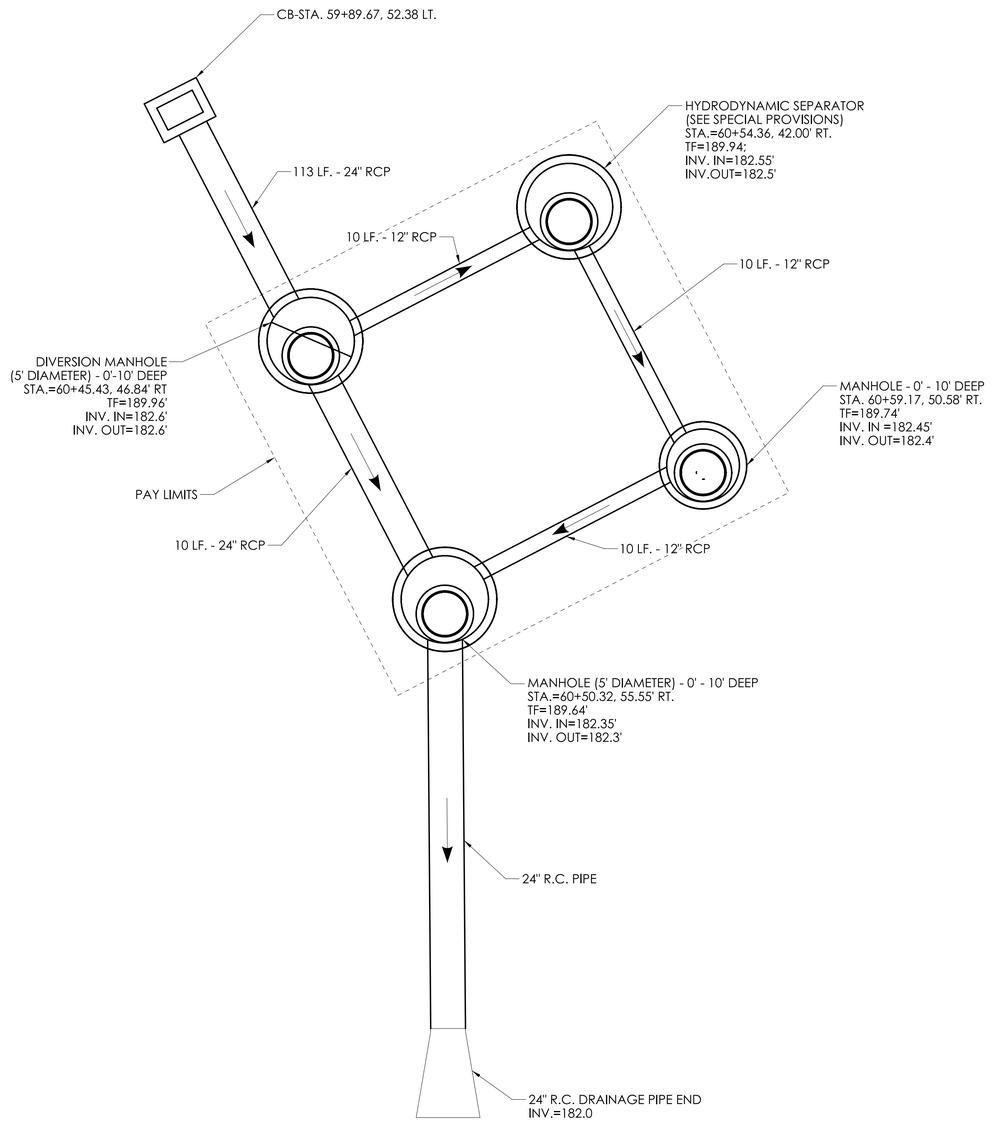
DRAWING TITLE: MISCELLANEOUS DETAILS SHEET

PROJECT NO.: 0131-0211

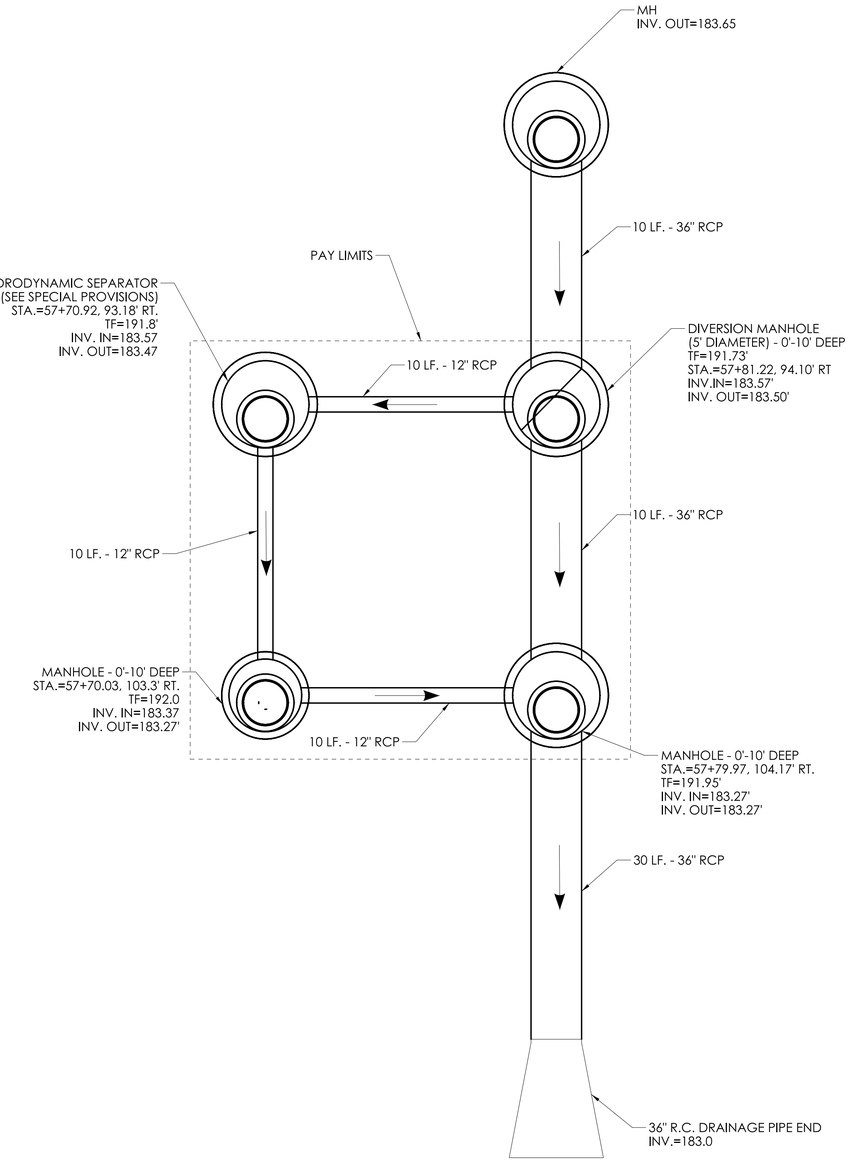
DRAWING NO.: MDS-07

SHEET NO.: 03.37

LASTED SAVED BY: mranando **FILE NAME:** F:\Drawing Files\MCA\2024-312 Southington Truck Stop (CHA)\Drawings\Civil\Production Drawings\FD_CP_0131-0211_MDS-Details.dgn
PLOTTED DATE: 7/15/2025



HYDRODYNAMIC SEPARATOR SITE NO.1
N.T.S.



HYDRODYNAMIC SEPARATOR SITE NO.2
N.T.S.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: CHECKED BY:

NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS**

TOWN(S): **SOUTHINGTON**

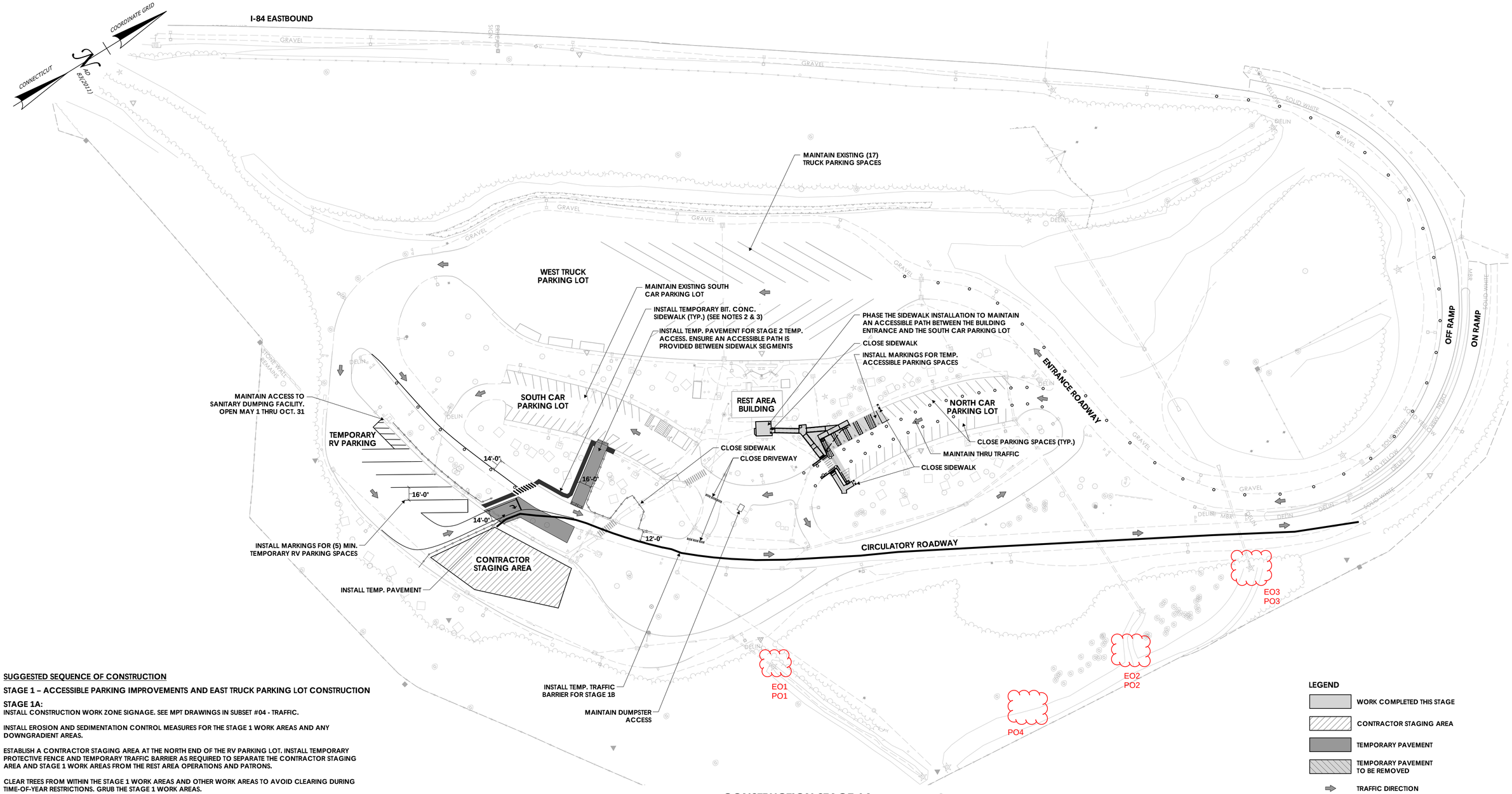
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PROJECT NO.: **0131-0211**

DRAWING NO.: **MDS-08**

SHEET NO.: **03.38**

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PLOTTED DATE: 7/15/2025



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1 – ACCESSIBLE PARKING IMPROVEMENTS AND EAST TRUCK PARKING LOT CONSTRUCTION

STAGE 1A:

INSTALL CONSTRUCTION WORK ZONE SIGNAGE. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC.

INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES FOR THE STAGE 1 WORK AREAS AND ANY DOWNGRADIENT AREAS.

ESTABLISH A CONTRACTOR STAGING AREA AT THE NORTH END OF THE RV PARKING LOT. INSTALL TEMPORARY PROTECTIVE FENCE AND TEMPORARY TRAFFIC BARRIER AS REQUIRED TO SEPARATE THE CONTRACTOR STAGING AREA AND STAGE 1 WORK AREAS FROM THE REST AREA OPERATIONS AND PATRONS.

CLEAR TREES FROM WITHIN THE STAGE 1 WORK AREAS AND OTHER WORK AREAS TO AVOID CLEARING DURING TIME-OF-YEAR RESTRICTIONS. GRUB THE STAGE 1 WORK AREAS.

CLOSE THE PARKING SPACES IN THE NORTH CAR PARKING LOT; MAINTAIN THRU TRAFFIC. CLOSE ADJACENT SIDEWALKS.

CONSTRUCT THE CONCRETE SIDEWALK IMPROVEMENTS ADJACENT TO THE REST AREA BUILDING AND NORTH CAR PARKING LOT.

INSTALL TEMPORARY MARKINGS AND SIGNS FOR (4) ACCESSBILE PARKING SPACES AND (1) VAN ACCESSIBLE PARKING SPACE IN THE NORTH CAR PARKING LOT.

MODIFY THE EXISTING RV PARKING LOT TO PROVIDE TEMPORARY RV PARKING, MINIMUM OF (5) SPACES, AND CONSTRUCT TEMPORARY DRIVEWAY AND TEMPORARY PAVEMENT FOR ACCESS TO THE CIRCULATORY ROADWAY.

CONSTRUCT TEMPORARY BITUMINOUS CONCRETE SIDEWALK AND INSTALL CROSSWALK CONNECTING THE TEMPORARY RV PARKING TO THE SOUTH CAR PARKING LOT SIDEWALK, PROVIDING A DEFINED PEDESTRIAN PATH TO THE REST AREA BUILDING.

CONSTRUCTION STAGE 1A

NOTES:

1. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC FOR ADDITIONAL DETAILS.
2. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE 4' WIDE (MIN.) AND PAID UNDER ITEM #0922001 BITUMINOUS CONCRETE SIDEWALK.
3. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE CONSTRUCTED WITH A LEVEL LANDING AREA (4'W X 4'L MIN., 2% MAX. SLOPES, POSITIVE PITCH TOWARD ROADWAY GUTTER) AND DETECTABLE WARNING SURFACE AT EACH CIRCULATORY ROADWAY CROSSING.

LEGEND

- WORK COMPLETED THIS STAGE
- CONTRACTOR STAGING AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO BE REMOVED
- TRAFFIC DIRECTION
- TEMPORARY PROTECTIVE FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY BITUMINOUS CONCRETE SIDEWALK (SEE NOTES)
- TEMPORARY DIVERSION
- TRAFFIC DRUM
- CONSTRUCTION BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: REH CHECKED BY: JSP

HORIZONTAL SCALE 1" = 60' (0, 60', 120')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: CONSTRUCTION STAGING PLANS

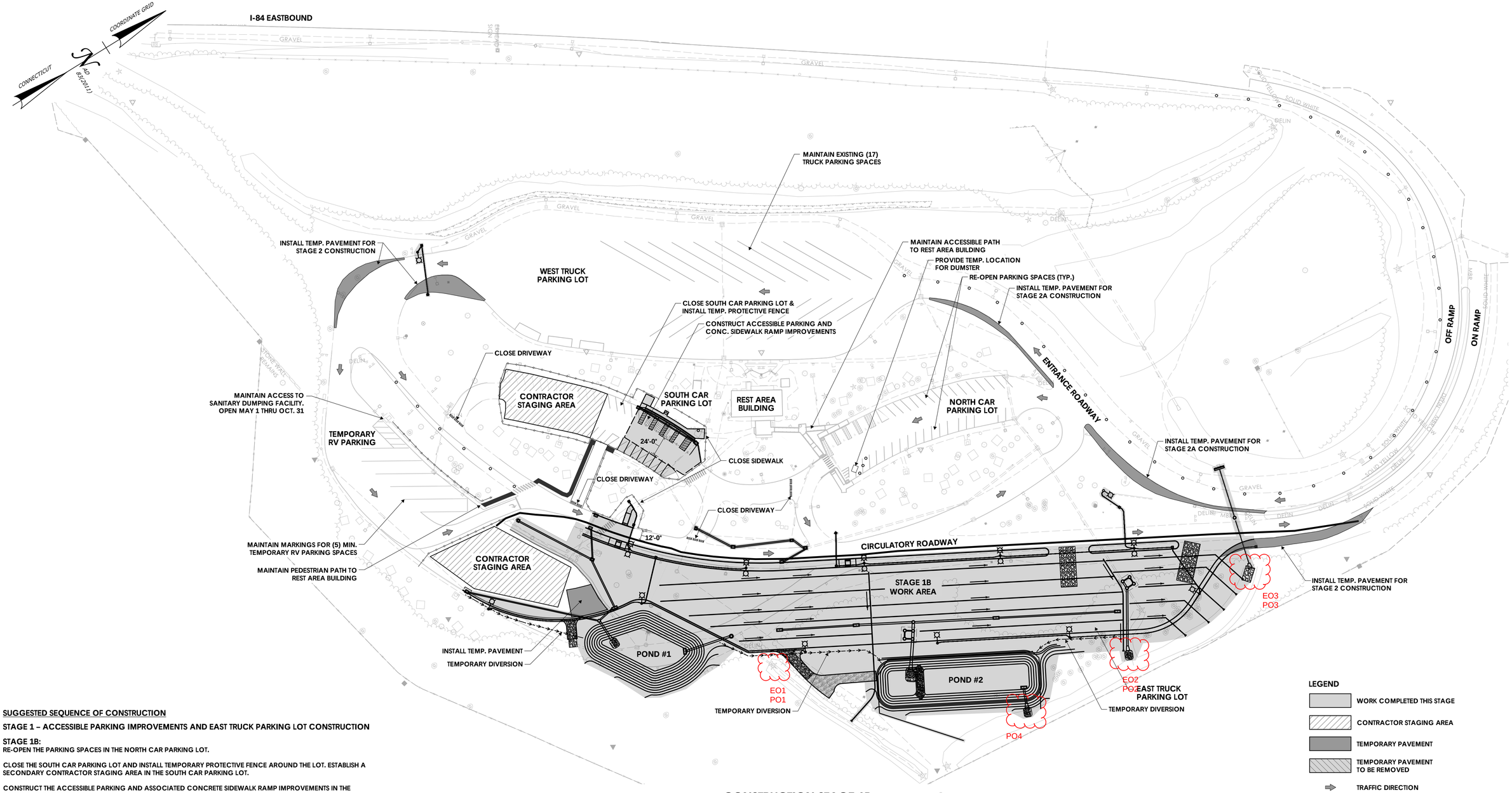
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DRAWING NO.: STG-01

SHEET NO.: 03.41

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PLOTTED DATE: 7/14/2025



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1 – ACCESSIBLE PARKING IMPROVEMENTS AND EAST TRUCK PARKING LOT CONSTRUCTION

STAGE 1B:
RE-OPEN THE PARKING SPACES IN THE NORTH CAR PARKING LOT.

CLOSE THE SOUTH CAR PARKING LOT AND INSTALL TEMPORARY PROTECTIVE FENCE AROUND THE LOT. ESTABLISH A SECONDARY CONTRACTOR STAGING AREA IN THE SOUTH CAR PARKING LOT.

CONSTRUCT THE ACCESSIBLE PARKING AND ASSOCIATED CONCRETE SIDEWALK RAMP IMPROVEMENTS IN THE SOUTH CAR PARKING LOT.

CONSTRUCT STORMWATER POND #1 AND STORMWATER POND #2 AND GRADE WORK AREAS TO DRAIN TO PONDS FOR STORMWATER TREATMENT DURING CONSTRUCTION. POND #1 AND POND #2 TO SERVE AS TEMPORARY SEDIMENT TRAPS PROVIDING A MINIMUM OF 134 CUBIC YARDS OF STORAGE FOR EACH ACRE OF DISTURBED AREA TRIBUTARY TO EACH POND, NOT TO EXCEED FIVE ACRES. INSTALL EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER TO PROVIDE TEMPORARY DIVERSION TO THE PONDS AS NEEDED DURING THIS STAGE.

NSTALL PROPOSED DRAINAGE STRUCTURES AND PIPES IN THE STAGE 1 WORK AREA.

INSTALL CONDUIT, HANDHOLES, FOUNDATIONS, AND LIGHTS FOR THE SITE LIGHTING IMPROVEMENTS IN THE STAGE 1 WORK AREA. PROVIDE TEMPORARY WORKS AS NEEDED FOR LIGHTS TO FUNCTION DURING SUBSEQUENT STAGES.

CONSTRUCT THE EAST TRUCK PARKING LOT AND RAISED ISLANDS (TO THE LIMITS SHOWN).

INSTALL TEMPORARY PAVEMENT TO FACILITATE STAGE 2 CONSTRUCTION.

CONSTRUCTION STAGE 1B

NOTES:
1. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC FOR ADDITIONAL DETAILS.
2. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE 4' WIDE (MIN.) AND PAID UNDER ITEM #0922001A BITUMINOUS CONCRETE SIDEWALK.
3. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE CONSTRUCTED WITH A LEVEL LANDING AREA (4'W X 4'L MIN., 2% MAX. SLOPES, POSITIVE PITCH TOWARD ROADWAY GUTTER) AND DETECTABLE WARNING SURFACE AT EACH CIRCULATORY ROADWAY CROSSING.
4. WHEN NO LONGER REQUIRED FOR THE TEMPORARY ACCOMMODATION OF PEDESTRIANS DURING CONSTRUCTION, TEMPORARY BITUMINOUS CONCRETE SIDEWALKS, INCLUDING BASE MATERIAL, SHALL BE REMOVED AND DISPOSED AND SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR PREPARED FOR PERMANENT CONSTRUCTION AS REQUIRED OR AS DIRECTED BY THE ENGINEER. REMOVAL SHALL BE PAID UNDER ITEM #0202000 EARTH EXCAVATION. SURFACE RESTORATION SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.
5. ANY GRADING THAT IS REQUIRED TO PROVIDE THE STORMWATER TREATMENT NOTED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE INCIDENTAL TO ITEM #0202000 EARTH EXCAVATION. ANY EROSION CONTROL MEASURES THAT ARE REQUIRED TO PROVIDE TEMPORARY DIVERSION OF STORMWATER RUNOFF FOR THE NOTED STORMWATER TREATMENT SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.

LEGEND
- WORK COMPLETED THIS STAGE
- CONTRACTOR STAGING AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO BE REMOVED
- TRAFFIC DIRECTION
- TEMPORARY PROTECTIVE FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY BITUMINOUS CONCRETE SIDEWALK (SEE NOTES)
- TEMPORARY DIVERSION
- TRAFFIC DRUM
- CONSTRUCTION BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: REH CHECKED BY: JSP

0 40' 120'
HORIZONTAL SCALE 1" = 60'

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

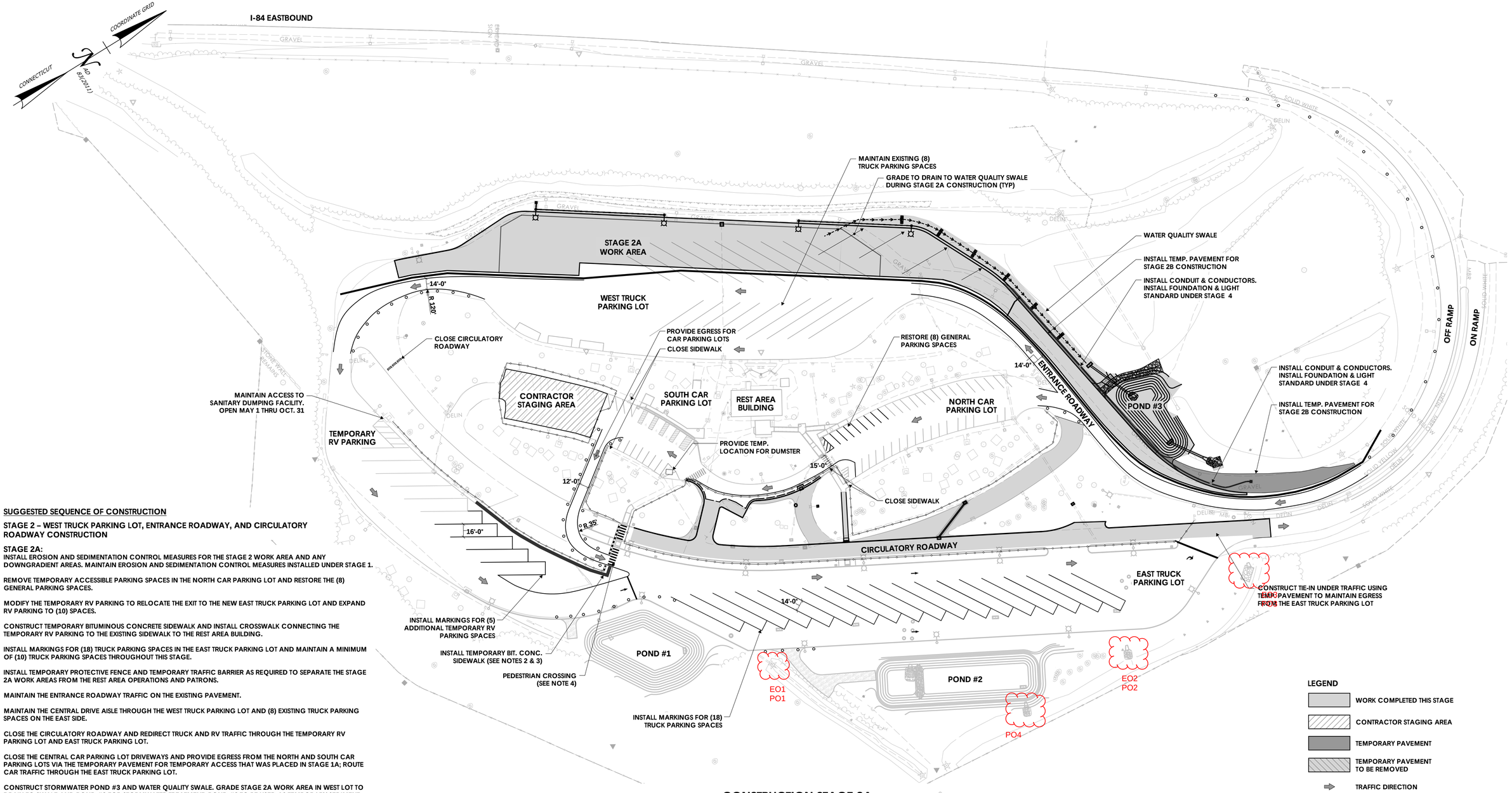
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PROJECT NO.: 0131-0211

DRAWING NO.: STG-02

SHEET NO.: 03.42

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PLOTTED DATE: 7/14/2025



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2 – WEST TRUCK PARKING LOT, ENTRANCE ROADWAY, AND CIRCULATORY ROADWAY CONSTRUCTION

STAGE 2A:

INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES FOR THE STAGE 2 WORK AREA AND ANY DOWNGRADIENT AREAS. MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES INSTALLED UNDER STAGE 1.

REMOVE TEMPORARY ACCESSIBLE PARKING SPACES IN THE NORTH CAR PARKING LOT AND RESTORE THE (8) GENERAL PARKING SPACES.

MODIFY THE TEMPORARY RV PARKING TO RELOCATE THE EXIT TO THE NEW EAST TRUCK PARKING LOT AND EXPAND RV PARKING TO (10) SPACES.

CONSTRUCT TEMPORARY BITUMINOUS CONCRETE SIDEWALK AND INSTALL CROSSWALK CONNECTING THE TEMPORARY RV PARKING TO THE EXISTING SIDEWALK TO THE REST AREA BUILDING.

INSTALL MARKINGS FOR (18) TRUCK PARKING SPACES IN THE EAST TRUCK PARKING LOT AND MAINTAIN A MINIMUM OF (10) TRUCK PARKING SPACES THROUGHOUT THIS STAGE.

INSTALL TEMPORARY PROTECTIVE FENCE AND TEMPORARY TRAFFIC BARRIER AS REQUIRED TO SEPARATE THE STAGE 2A WORK AREAS FROM THE REST AREA OPERATIONS AND PATRONS.

MAINTAIN THE ENTRANCE ROADWAY TRAFFIC ON THE EXISTING PAVEMENT.

MAINTAIN THE CENTRAL DRIVE AISLE THROUGH THE WEST TRUCK PARKING LOT AND (8) EXISTING TRUCK PARKING SPACES ON THE EAST SIDE.

CLOSE THE CIRCULATORY ROADWAY AND REDIRECT TRUCK AND RV TRAFFIC THROUGH THE TEMPORARY RV PARKING LOT AND EAST TRUCK PARKING LOT.

CLOSE THE CENTRAL CAR PARKING LOT DRIVEWAYS AND PROVIDE EGRESS FROM THE NORTH AND SOUTH CAR PARKING LOTS VIA THE TEMPORARY PAVEMENT FOR TEMPORARY ACCESS THAT WAS PLACED IN STAGE 1A; ROUTE CAR TRAFFIC THROUGH THE EAST TRUCK PARKING LOT.

CONSTRUCT STORMWATER POND #3 AND WATER QUALITY SWALE. GRADE STAGE 2A WORK AREA IN WEST LOT TO DRAIN TO SWALE AND POND #3 FOR STORMWATER TREATMENT. POND #3 TO BE USED AS TEMPORARY SEDIMENT TRAP PROVIDING A MINIMUM OF 134 CUBIC YARDS OF STORAGE FOR EACH ACRE OF DISTURBED AREA TRIBUTARY TO POND, NOT TO EXCEED FIVE ACRES. INSTALL EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER TO PROVIDE TEMPORARY DIVERSION TO THE SWALE AND POND AS NEEDED DURING THIS STAGE.

INSTALL THE DRAINAGE STRUCTURES AND PIPES IN THE STAGE 2A WORK AREAS.

INSTALL CONDUIT, HANDHOLES, FOUNDATIONS, AND LIGHTS FOR THE SITE LIGHTING IMPROVEMENTS IN THE STAGE 2A WORK AREA. PROVIDE TEMPORARY WORKS AS NEEDED FOR LIGHTS TO FUNCTION DURING SUBSEQUENT STAGES.

CONSTRUCT THE WEST SIDE OF THE WEST TRUCK PARKING LOT.

CONSTRUCT THE ENTRANCE DRIVEWAY. INSTALL TEMPORARY PAVEMENT TO FACILITATE STAGE 2B CONSTRUCTION.

CONSTRUCT THE CIRCULATORY ROADWAY IMPROVEMENTS NORTH OF THE SOUTH CAR PARKING LOT EGRESS, INCLUDING NEW EGRESS DRIVEWAY JUST NORTH OF THE SOUTH CAR PARKING LOT.

CONSTRUCTION STAGE 2A

NOTES:

1. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC FOR ADDITIONAL DETAILS.
2. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE 4' WIDE (MIN.) AND PAID UNDER ITEM #0922001 BITUMINOUS CONCRETE SIDEWALK.
3. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE CONSTRUCTED WITH A LEVEL LANDING AREA (4'W X 4'L MIN., 2% MAX. SLOPES, POSITIVE PITCH TOWARD ROADWAY GUTTER) AND DETECTABLE WARNING SURFACE AT EACH CIRCULATORY ROADWAY CROSSING.
4. PROVIDE TEMP. PAVEMENT SHIM AS REQUIRED AT PEDESTRIAN CROSSING TO ELIMINATE ANY SURFACE DISCONTINUITIES GREATER THAN 1/4" ALONG THE PEDESTRIAN CROSSING PATH.
5. WHEN NO LONGER REQUIRED FOR THE TEMPORARY ACCOMMODATION OF PEDESTRIANS DURING CONSTRUCTION, TEMPORARY BITUMINOUS CONCRETE SIDEWALKS, INCLUDING BASE MATERIAL, SHALL BE REMOVED AND DISPOSED AND SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR PREPARED FOR PERMANENT CONSTRUCTION AS REQUIRED OR AS DIRECTED BY THE ENGINEER. REMOVAL SHALL BE PAID UNDER ITEM #0202000 EARTH EXCAVATION. SURFACE RESTORATION SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.
6. ANY GRADING THAT IS REQUIRED TO PROVIDE THE STORMWATER TREATMENT NOTED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE INCIDENTAL TO ITEM #0202000 EARTH EXCAVATION. ANY EROSION CONTROL MEASURES THAT ARE REQUIRED TO PROVIDE TEMPORARY DIVERSION OF STORMWATER RUNOFF FOR THE NOTED STORMWATER TREATMENT SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.

LEGEND

- WORK COMPLETED THIS STAGE
- CONTRACTOR STAGING AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO BE REMOVED
- TRAFFIC DIRECTION
- TEMPORARY PROTECTIVE FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY BITUMINOUS CONCRETE SIDEWALK (SEE NOTES)
- TEMPORARY DIVERSION
- TRAFFIC DRUM
- CONSTRUCTION BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK:

DESIGNER/DRAFTER: REH CHECKED BY: JSP

HORIZONTAL SCALE 1" = 60' (0, 60', 120')

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: CONSTRUCTION STAGING PLANS

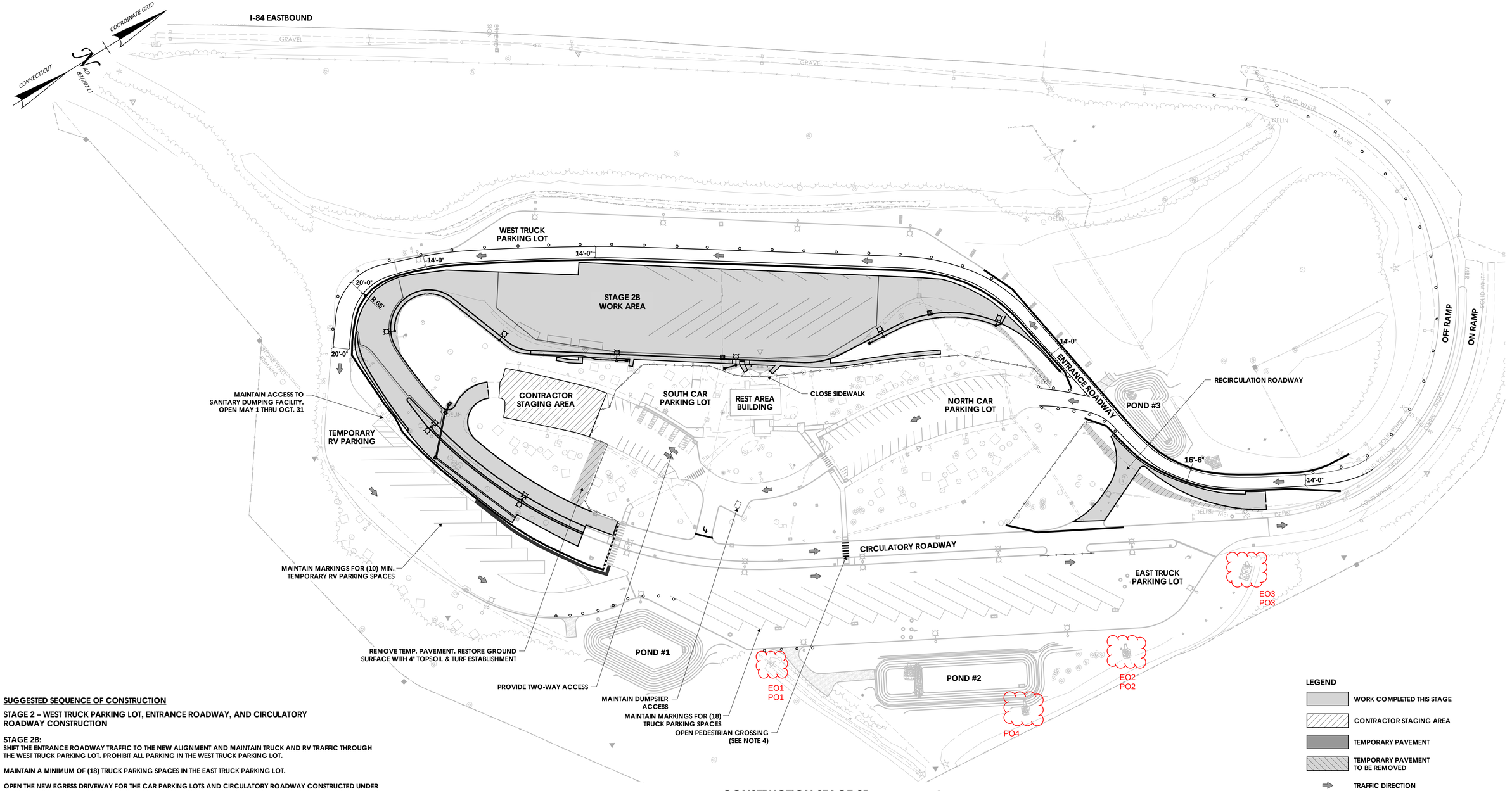
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DRAWING NO.: STG-03

SHEET NO.: 03.43

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PLOTTED DATE: 7/14/2025



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2 – WEST TRUCK PARKING LOT, ENTRANCE ROADWAY, AND CIRCULATORY ROADWAY CONSTRUCTION

STAGE 2B:

SHIFT THE ENTRANCE ROADWAY TRAFFIC TO THE NEW ALIGNMENT AND MAINTAIN TRUCK AND RV TRAFFIC THROUGH THE WEST TRUCK PARKING LOT. PROHIBIT ALL PARKING IN THE WEST TRUCK PARKING LOT.

MAINTAIN A MINIMUM OF (18) TRUCK PARKING SPACES IN THE EAST TRUCK PARKING LOT.

OPEN THE NEW EGRESS DRIVEWAY FOR THE CAR PARKING LOTS AND CIRCULATORY ROADWAY CONSTRUCTED UNDER STAGE 2A. CONVERT THE SOUTH CAR PARKING LOT TO TWO-WAY TRAFFIC TO FACILITATE ACCESS TO THE CIRCULATORY ROADWAY.

INSTALL TEMPORARY PROTECTIVE FENCE AND TEMPORARY TRAFFIC BARRIER AS REQUIRED TO SEPARATE THE STAGE 2B WORK AREAS FROM THE REST AREA OPERATIONS AND PATRONS.

INSTALL CONDUIT, HANDHOLES, FOUNDATIONS, AND LIGHTS FOR THE SITE LIGHTING IMPROVEMENTS IN THE STAGE 2B WORK AREA. PROVIDE TEMPORARY WORKS AS NEEDED FOR LIGHTS TO FUNCTION DURING SUBSEQUENT STAGES.

INSTALL DRAINAGE IMPROVEMENTS IN THE STAGE 2B WORK AREA.

CONSTRUCT THE EAST SIDE OF THE WEST TRUCK PARKING LOT.

CONSTRUCT THE RECIRCULATION ROADWAY AND ENTRANCE ROADWAY TIE-IN TO THE EXISTING RAMP.

CONSTRUCT THE REMAINING SECTION OF THE RAISED ISLAND AND CIRCULATORY ROADWAY IMPROVEMENTS.

CONSTRUCTION STAGE 2B

NOTES:

1. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC FOR ADDITIONAL DETAILS.
2. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE 4' WIDE (MIN.) AND PAID UNDER ITEM #0922001 BITUMINOUS CONCRETE SIDEWALK.
3. TEMPORARY BITUMINOUS CONCRETE SIDEWALK SHALL BE CONSTRUCTED WITH A LEVEL LANDING AREA (4'W X 4'L MIN., 2% MAX. SLOPES, POSITIVE PITCH TOWARD ROADWAY GUTTER) AND DETECTABLE WARNING SURFACE AT EACH CIRCULATORY ROADWAY CROSSING.
4. PROVIDE TEMP. PAVEMENT SHIM AS REQUIRED AT PEDESTRIAN CROSSING TO ELIMINATE ANY SURFACE DISCONTINUITIES GREATER THAN 1/4" ALONG THE PEDESTRIAN CROSSING PATH.
5. WHEN NO LONGER REQUIRED FOR THE TEMPORARY ACCOMMODATION OF PEDESTRIANS DURING CONSTRUCTION, TEMPORARY BITUMINOUS CONCRETE SIDEWALKS, INCLUDING BASE MATERIAL, SHALL BE REMOVED AND DISPOSED AND SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR PREPARED FOR PERMANENT CONSTRUCTION AS REQUIRED OR AS DIRECTED BY THE ENGINEER. REMOVAL SHALL BE PAID UNDER ITEM #0202000 EARTH EXCAVATION. SURFACE RESTORATION SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.

LEGEND

- WORK COMPLETED THIS STAGE
- CONTRACTOR STAGING AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO BE REMOVED
- TRAFFIC DIRECTION
- TEMPORARY PROTECTIVE FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY BITUMINOUS CONCRETE SIDEWALK (SEE NOTES)
- TEMPORARY DIVERSION
- TRAFFIC DRUM
- CONSTRUCTION BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: REH CHECKED BY: JSP

HORIZONTAL SCALE 1" = 60' (0, 60', 120')

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: CONSTRUCTION STAGING PLANS

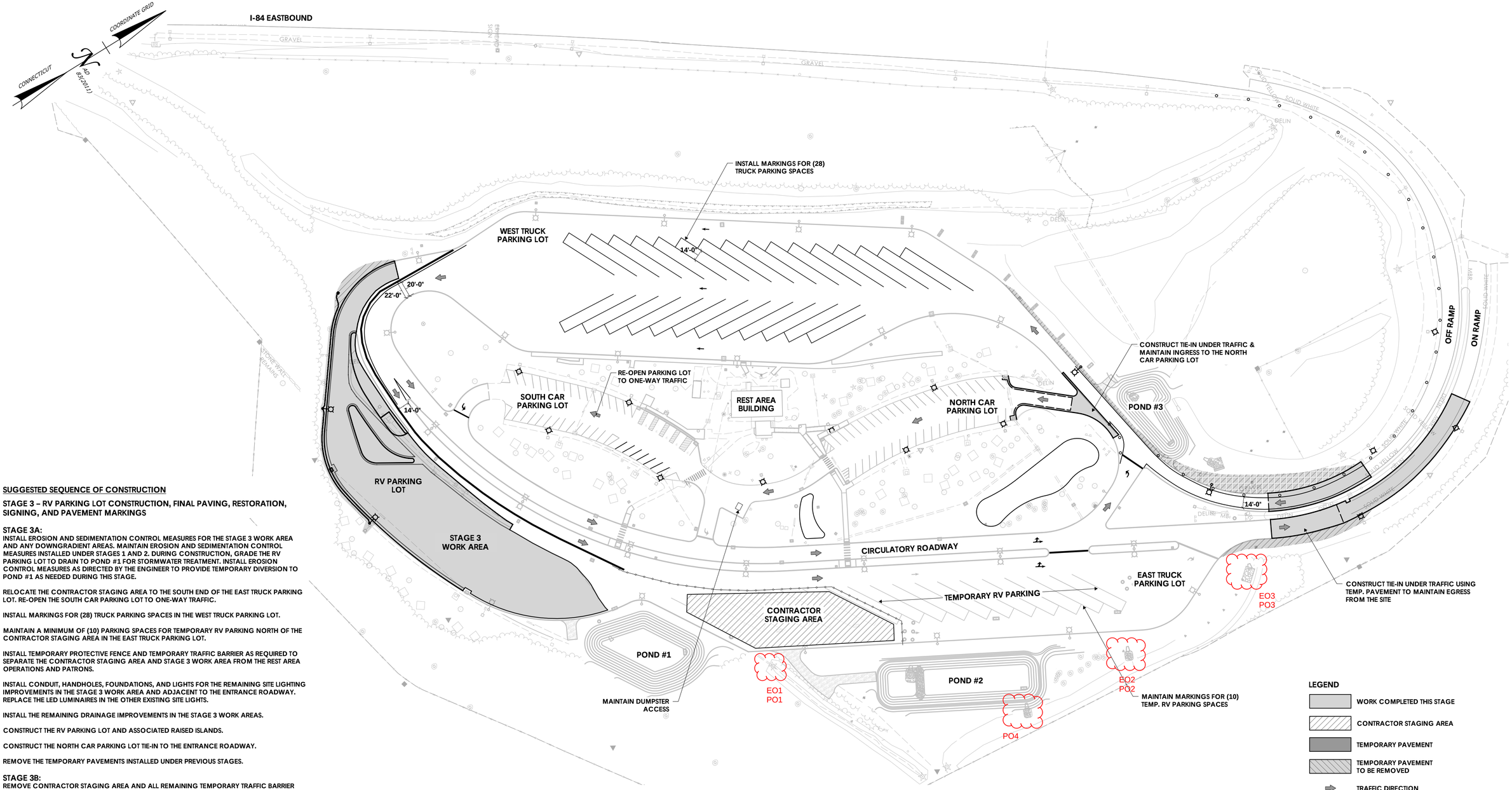
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DRAWING NO.: STG-04

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PLOTTED DATE: 7/14/2025



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 3 – RV PARKING LOT CONSTRUCTION, FINAL PAVING, RESTORATION, SIGNING, AND PAVEMENT MARKINGS

STAGE 3A:
INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES FOR THE STAGE 3 WORK AREA AND ANY DOWNGRADIENT AREAS. MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES INSTALLED UNDER STAGES 1 AND 2. DURING CONSTRUCTION, GRADE THE RV PARKING LOT TO DRAIN TO POND #1 FOR STORMWATER TREATMENT. INSTALL EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER TO PROVIDE TEMPORARY DIVERSION TO POND #1 AS NEEDED DURING THIS STAGE.

RELOCATE THE CONTRACTOR STAGING AREA TO THE SOUTH END OF THE EAST TRUCK PARKING LOT. RE-OPEN THE SOUTH CAR PARKING LOT TO ONE-WAY TRAFFIC.

INSTALL MARKINGS FOR (28) TRUCK PARKING SPACES IN THE WEST TRUCK PARKING LOT.

MAINTAIN A MINIMUM OF (10) PARKING SPACES FOR TEMPORARY RV PARKING NORTH OF THE CONTRACTOR STAGING AREA IN THE EAST TRUCK PARKING LOT.

INSTALL TEMPORARY PROTECTIVE FENCE AND TEMPORARY TRAFFIC BARRIER AS REQUIRED TO SEPARATE THE CONTRACTOR STAGING AREA AND STAGE 3 WORK AREA FROM THE REST AREA OPERATIONS AND PATRONS.

INSTALL CONDUIT, HANDHOLES, FOUNDATIONS, AND LIGHTS FOR THE REMAINING SITE LIGHTING IMPROVEMENTS IN THE STAGE 3 WORK AREA AND ADJACENT TO THE ENTRANCE ROADWAY. REPLACE THE LED LUMINAIRES IN THE OTHER EXISTING SITE LIGHTS.

INSTALL THE REMAINING DRAINAGE IMPROVEMENTS IN THE STAGE 3 WORK AREAS.

CONSTRUCT THE RV PARKING LOT AND ASSOCIATED RAISED ISLANDS.

CONSTRUCT THE NORTH CAR PARKING LOT TIE-IN TO THE ENTRANCE ROADWAY.

REMOVE THE TEMPORARY PAVEMENTS INSTALLED UNDER PREVIOUS STAGES.

STAGE 3B:
REMOVE CONTRACTOR STAGING AREA AND ALL REMAINING TEMPORARY TRAFFIC BARRIER AND TEMPORARY PROTECTIVE FENCE.

INSTALL CHAIN LINK FENCE, GATES, AND METAL BEAM RAIL.

COMPLETE MILLING AND FINAL PAVING.

INSTALL PERMANENT PAVEMENT MARKINGS.

INSTALL ALL NEW TRAFFIC SIGNS.

COMPLETE PLACEMENT OF TOPSOIL AND SURFACE TREATMENTS.

RESTORE ALL OTHER AREAS DISTURBED BY CONSTRUCTION.

REMOVE ALL CONSTRUCTION WORK ZONE SIGNAGE.

CONSTRUCTION STAGE 3

NOTES:
1. SEE MPT DRAWINGS IN SUBSET #04 - TRAFFIC FOR ADDITIONAL DETAILS.
2. ANY GRADING THAT IS REQUIRED TO PROVIDE THE STORMWATER TREATMENT NOTED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION SHALL BE INCIDENTAL TO ITEM #0202000 EARTH EXCAVATION. ANY EROSION CONTROL MEASURES THAT ARE REQUIRED TO PROVIDE TEMPORARY DIVERSION OF STORMWATER RUNOFF FOR THE NOTED STORMWATER TREATMENT SHALL BE PAID UNDER THE APPLICABLE CONTRACT PAY ITEMS.

LEGEND
- WORK COMPLETED THIS STAGE
- CONTRACTOR STAGING AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO BE REMOVED
- TRAFFIC DIRECTION
- TEMPORARY PROTECTIVE FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY BITUMINOUS CONCRETE SIDEWALK
- TEMPORARY DIVERSION
- TRAFFIC DRUM
- CONSTRUCTION BARRICADE (TYPE III)
- PEDESTRIAN BARRICADE

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: REH CHECKED BY: JSP

HORIZONTAL SCALE 1" = 60' (0, 60', 120')

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS

TOWN(S): SOUTHINGTON

DRAWING TITLE: CONSTRUCTION STAGING PLANS

PROJECT NO.: 0131-0211

DRAWING NO.: STG-05

SHEET NO.: 03.45

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PLOTTED DATE: 7/14/2025

Appendix D - CTDOT MS4 Project Design Maximum Extent Practicable Worksheet

CTDOT MS4 Project Design
Maximum Extent Practicable (MEP) Worksheet

Section 1: Project Information

Project Number: 0131-0211

Title/Description: Southington I-84 Rest Area Truck Parking Improvements

Location: Southington

Section 2: Existing Conditions

EC1	Total Project Area			28.8 acres	
EC2	Pre-construction Total Impervious Area			6.8 acres	
EC3	Pre-Construction Disconnected Impervious Area			6.8 acres	
EC4	Pre-construction DCIA for the Project *(EC2 minus EC3)*			6.8 acres	23.6 % (EC4/EC1)
EC5	Soil Infiltration Potential	Data Source: ☐ Existing Report / Soils Map ☒ Field Verified		☐ Good/Fair ☒ Poor ☐ Mixed	
EC6	Depth to Maximum Groundwater		☐ TBD	1.5' to 5.3' ft below grade	
EC7	Depth to Bedrock		☐ TBD	3.5' to 5' ft below grade	
EC8	Aquifer Protection Area? (from PNDF)			☐ Yes	☒ No
EC9	MS4 Priority Area? (from PNDF)			☐ Yes (See Below)	☐ No

Check All That Apply ☐ Urbanized Area ☐ DCIA >11% ☐ Impaired Waterbody (See Below)

Select All Impairments That Apply

EC10	Contamination known or suspected to be present? (From Environmental Compliance)	☐ Yes	☐ No
EC11	Adjoining DOT ROW beyond project limits available for stormwater quality management	0 acres	

NOTES:

EC5/6 - Summary results, refer to geotechnical report for boring locations particular to specific stormwater BMPs
EC9 and EC10 - PNDF not received for 90% submission.
Page 2 Notes
DC-3 Field measured soil infiltration rates not measurable due to high groundwater withing two feet of possible bottom of infiltration BMP's. Due to shallow ground water and rock, infiltration BMP's not practical. Post-development conditions propose to treat without retention the WQV to the maximum extent practical.

Worksheet users should refer to the current *CT DOT MS4 Project Design MEP Worksheet V4 Instructions*

Reference the CT DEEP Stormwater Quality Manual (SWQM) for design and the New England Stormwater Retrofit Manual for Crediting

CTDOT MS4 Project Design
Maximum Extent Practicable (MEP) Worksheet

Section 3: Designed Conditions

Section 3A: Document Water Quality Volume (WQV) Retained and/or Treated (ac-ft)

	Water Quality Volume Documentation		30% Design		60% Design	90% Design	FDP
DC1	WQV design goal	☒Full ☐½-WQV *(Full = EC4 % ≤ 40%)*	N/A ac-ft	☐ TBD	0.818 ac-ft	0.848 ac-ft	0.848 ac-ft
DC2	WQV goal **retained** (refer to page 3)		N/A ac-ft		0.491 ac-ft	0.00 ac-ft	0.0 ac-ft
DC3	WQV goal ***treated*** (refer to page 3)		N/A ac-ft		0.579 ac-ft	0.99 ac-ft	0.99 ac-ft

Did the Project Retain and/or Treat the Entire WQV Goal? ☒Yes ☐No

Section 3B: Document Changes in Directly Connected Impervious Area (DCIA) Pre to Post Construction (acres)

	DCIA Documentation	30% Design		60% Design	90% Design	FDP
DC4	Post-construction Total Impervious Area	N/A ac.	☐ TBD	8.6 ac.	8.6 ac.	8.6 ac.
DC5	Post-construction DCIA before **new** BMPs	N/A ac.	☐ TBD	8.6 ac.	8.6 ac.	8.6 ac.
DC6	DCIA Disconnected by new BMPs (from Pg 3)	N/A ac.	☐ TBD	2.23 ac.	2.269 ac.	2.852 ac.
DC7	Final Post-construction DCIA *(DC5 minus DC6)*	N/A ac.	☐ TBD	6.37 ac.	6.331 ac.	5.748 ac.
DC8	Pre-construction DCIA (refer to EC4 from Pg 1)	N/A ac.		6.8 ac.	6.8 ac.	6.8 ac.
DC9	Change in DCIA from pre- to post-construction *(DC7 minus DC8) Can be positive (DCIA gained) or negative (DCIA lost)*	N/A ac.	☐ TBD	-0.43 ac.	-0.469 ac.	-1.05 ac.
	Date completed			3/12/25	6/17/25	7/15/25
	Completed by (initials)	N/A		MBR	MBR	MBR
	Reviewed by (initials)	N/A		REC	REC	REC

NOTES:

Worksheet users should refer to the current *CT DOT MS4 Project Design MEP Worksheet V4 Instructions*

Reference the CT DEEP Stormwater Quality Manual (SWQM) for design and the New England Stormwater Retrofit Manual for Crediting

Section 4: Stormwater BMP Selection Summary

Design Phase ☐30% ☐60% ☐90% ☒FDP	BMP Type	WQV Retained* (ac-ft)	WQV Treated* (ac-ft)	DCIA Captured by BMP (ac)	Runoff Depth from DCIA Captured by BMP (in)	HSG Soil Type	DCIA Disconnection Credit (%)**	DCIA Disconnection Credit (ac)	(TP) reduction %**	(TSS) reduction %**	(TN) reduction %*
BMP Category											
Open Conveyance	Dry Swale	0.0	0.0	0.088	1.3	C	17	0	25	0	17
Treatment	Pond 1 (Wet)	0.0	0.438	1.9	1.3	C	68	1.29	56	81	32
Treatment	HDS Site No 2	0.0	0.197	1.916	1.3	C	0	0	*	80	*
Treatment	Pond 2 (Ext. Dry)	0.0	0.0	1.916	1.3	C	45	0.92	13	46	17
Treatment	Pond 3 (Wet)	0.0	0.099	0.088	1.3	C	68	0.059	56	81	32
Treatment	HDS Site No 1	0.0	0.256	2.33	1.3	C	25	0.583	*	80	*
TOTAL		0	0.99					2.852			
		To Row DC2	***To Row DC3***					***To Row DC6***			

Describe Site Constraints Limiting BMP Implementation if applicable:

Field investigation identified shallow groundwater and rock. Infiltration testing not feasible at required separation distances i,e. GW within 2' of proposed infiltration BMP bottom. BMP of Dry swale provides no Disconnection credit as all flow to swale is routed to Pond #3 (wet). Disconnection credit for Hydrodynamic separator sites of 25% taken for HDS Site No. 1 only, site No.2 drains to Extended Dry Detention pond for disconnection. *Values for TP/TN reduction of HDS not established.

Other Notes:

Site is an existing developed site with DCIA that is routed to storm sewers and select areas are not able to be treated with structural BMPs or LID practices. Existing site does not contain any BMPs for WQV retention or treatment. Post-development conditions to treat without retention the WQV to the Maximum Extent Practical.

* List the amount of the WQV the BMP is designed to retain or treat.

** Refer to the CT DEEP Stormwater Quality Manual (SWQM) Stormwater Manual (ct.gov) and New England Stormwater Retrofit Manual Stormwater Retrofit Manual (snepnetwork.org) to determine disconnection and pollutant removal percentages. BMPs should be designed to meet specific TP, TN and TSS pollutant reductions to the maximum extent practicable when the entire WQV cannot be retained. Pollutant Reduction Targets are: New Development TP 60%, TN 40%, TSS 90%. Redevelopment TP 50%, TN, 30% TSS 80%. (Page 48 of the SWQM)

Appendix E – Construction Site Environmental Inspection Report (CSEIR)

DOT Environmental Inspection Report

Instructions

The following Construction Site Environmental Inspection Report (CSEIR) is to be used on all Department of Transportation (DOT) construction projects. A new form must be filled out at a minimum of once a week and within twenty four (24) hours after any storm event with precipitation greater than .10 inches. For projects that hold an Individual Inland Wetlands Permit from the Connecticut Department of Environmental Protection (DEP), a monthly submittal including all the completed CSEIRs will need to be sent to DEP. For all other DOT projects the CSEIRs must be kept in the field office as part of the Stormwater Pollution Control Plan (SWPCP).

Using the Inspection Report:

This CSEIR is designed to be customized according to the SWPCP that has been developed for each individual construction project. It will need to be adjusted to match the existing site conditions and indicate the most current Best Management Practices (BMPs) being implemented at any given date. At the beginning of construction for each project, a site plan shall be developed that identifies, by number, all potential discharge locations that will collect runoff from a disturbed area during the current phase of construction. Once the discharge locations have been identified by number, a brief description of the BMP will need to be listed in the site specific section of the CSEIR. Examples of a site specific BMPs include construction entrances, temporary sediment traps, temporary sediment basins, or localized areas of silt fence (e.g., silt fence along Main Street; silt fence along toe of slope at Wetland A, etc.). All areas that will be used for construction operations need to be included in the site specific BMPs section including Staging Areas, Waste Stockpile Areas, and Field Office locations.

To facilitate simpler inspections, the "General Information" section and "BMP and Location" section can be filled out on a blank inspection report at the beginning of construction and then copied for re-use as long as the site specific locations remain the same. Any additional BMPs or other changes that result from staged construction or corrective actions need to be included on the site plan and CSEIR within three (3) days following an inspection.

During the site inspection the inspector will need to walk the site with a copy of the site map and CSEIR. Each numbered location will need to be inspected and any deficiencies or maintenance issues identified and documented.

The "Overall Site Issues Reference Checklist" should be consulted when completing the CSEIR to help identify any locations where maintenance or additional BMPs may be required. This checklist is not submitted with the CSEIR but should be kept on file for future reference.

Overall Site Issues Reference Checklist

Below are some general site issues that should be assessed during inspections. This Check List should be consulted during the site inspection and used to determine the appropriate BMP corrective actions required in BMP Maintenance section above. ***Not required to be included with CSEIR submission or as part of certification***

BMP/activity	Completed	Maint. Required	Corrective Action by Contractor- Note completion date and action taken
Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No	☐Yes ☐No	
Is there any evidence of erosion occurring throughout the project site?	☐Yes ☐No	☐Yes ☐No	
Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	☐Yes ☐No	☐Yes ☐No	
Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☐Yes ☐No	☐Yes ☐No	
Are discharge points and receiving waters free of any sediment deposits?	☐Yes ☐No	☐Yes ☐No	
Are storm drain inlets properly protected?	☐Yes ☐No	☐Yes ☐No	
Is the construction exit preventing sediment from being tracked into the street?	☐Yes ☐No	☐Yes ☐No	
Is trash/litter from work areas collected and placed in covered dumpsters?	☐Yes ☐No	☐Yes ☐No	
Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	☐Yes ☐No	☐Yes ☐No	
Are vehicle and equipment fueling, cleaning, and maint. areas free of spills, leaks, or any other deleterious material?	☐Yes ☐No	☐Yes ☐No	
Are materials that are potential stormwater contaminants stored inside or under cover?	☐Yes ☐No	☐Yes ☐No	
Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☐Yes ☐No	☐Yes ☐No	
(Other) Describe	☐Yes ☐No	☐Yes ☐No	

State of Connecticut
Department of Transportation
Construction Site Environmental Inspection Report

This Form Must Be Completed At Least Once a Week and within Twenty Four (24) Hours* Of the End of a Storm Event That Is 0.1 inches or Greater * Next Working Day as Directed by Engineer

General Information			
Project Number		**Date**	
Permit Number(s)		**Location**	
Contractor			
Project Engineer		**Phone No**	
Type of Inspection: Check all that apply ☐ Weekly ☐ Pre-storm event ☐ Post-storm event			
Weather at time of this inspection? ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds Temperature:			
Start Date: _____ Time: _____ Duration (hrs): _____ Precipitation (in) ≈ _____			

Site-specific BMPs - *Number the structural and non-structural BMPs on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map for reference with you during your inspections. Note- If have additional locations add rows.* Site Map Attached ☐ **Yes** ☐ **No**

Location	BMPs Installed	BMP Maint. Required	Remedial Action Required	Remedial Action* If yes, provide description and date contractor notified	Date Fixed	Repeat Failure
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No				☐Yes ☐No

Are there any sediment discharges to a regulated area or potential wetland occurring or have any occurred since the last inspection? ☐ **Yes** ☐ **No**

If yes, contact the District Environmental Coordinator immediately and submit project incident report (include description of the discharge including location, time identified, and the approximate amount of sediment)

Incident report attached to this CSEIR**?** ☐ **Yes** ☐ **No**

"I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."

Prepared By: _____

Title: **Signature:** **Date:**

Review By: _____

Title: **Signature:** **Date:**

I acknowledge receipt of a copy of the CSEIR and will perform the required maintenance or remedial action indicated in the report.

Contractor: _____

Title: **Signature:** **Date:**

Appendix F – Notice of Termination Form

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form: Non-Solar Projects

This Notice serves as a request to terminate the below listed permit as well as any applicable Letter(s) of Credit.

Part I: Permittee Information

The below information is required in accordance with Section 6(b) of the General Permit.

1. Permit Number: GSN _____
2. Registrant: _____
3. Site Address: _____

   City/Town: _____ State: _____ Zip Code: _____
4. Date of completion of construction: _____

   Date all storm drainage structures were cleared of construction sediment and debris: _____

   Beginning and Ending Dates of post-construction inspections: _____

   Date of final stabilization inspection(s)*: _____

   Qualified Inspector who conducted the Final Stabilization Inspection: (This person must sign Part III) _____
5. Check the post-construction activity(ies)** at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Capped Landfill

   ☐ Commercial ☐ Solar Array ☐ Other: _____

* The Final Stabilization Inspection must occur at least one full growing season after final stabilization has been achieved. A full growing season is defined as the timeframe encompassed by two consecutive full seeding seasons: April 1 through June 15, and August 15 through October 1. If final stabilization is achieved during a seeding season, the following seeding season will be considered the first full seeding season after final stabilization has been achieved.

** If the post-construction activity involves solar arrays, the Department may require that the "Solar Projects: Notice of Termination Form" be used. Any questions regarding the necessity of such a form for the project can be sent via email to DEEP.StormwaterStaff@ct.gov.

Locally Approvable Projects Must Complete the following Part II - *(Attach additional sheets as needed)*

Part II: Locally Approvable Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(i) of the General Permit.

Certification by a Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / District Representative

"I hereby certify that I am a qualified professional engineer / a qualified soil erosion and sediment control professional / a representative of the District in which the site is located as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee's Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / Representative of the District	Date
Printed Name of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / Representative of the District	Title

Check off the qualifications of the signatory of the above part:

☐ Qualified Professional Engineer ☐ Qualified Soil Erosion and Sediment Control Professional ☐ Representative of the District

Locally Exempt Projects Must Complete the following Part II - *(Attach additional sheets as needed)*

Part II: Locally Exempt Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(ii) of the General Permit.

Certification by a Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional

"I hereby certify that I am a qualified professional engineer / a qualified soil erosion and sediment control professional as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee's Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional	Date
Printed Name of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional	Title

Check off the qualifications of the signatory of the above part:

☐ Qualified Professional Engineer ☐ Qualified Soil Erosion and Sediment Control Professional

State Agency Projects Must Complete the following Part II - (Attach additional sheets as needed)

Part II: State Agency Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(iii) of the General Permit.

Certification by a DOT District Engineer or his/her designee / a DOT District Environmental Coordinator / a designated employee of another state agency

"I hereby certify that I am a DOT District Engineer or his/her designee / a DOT District Environmental Coordinator / a designated employee of another state agency as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee's Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature	Date
Printed Name	Title

Check off the qualifications of the signatory of the above part:

☐ Qualified Professional Engineer ☐ Qualified Soil Erosion and Sediment Control Professional ☐ Representative of the District

All Projects Must Complete the following Part III - *(Attach additional sheets as needed)*

Part III: Final Stabilization Inspection Certification

The below information is required in accordance with Section 5(b)(4)(D) of the General Permit.

Certification by a Qualified Inspector

"I hereby certify that I am a qualified inspector as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that the site has been stabilized, as defined in Section 2 of the general permit, for a period of no less than one full growing season following the cessation of construction activities. I further certify that there is no active erosion or sedimentation present on site and no disturbed areas remain exposed. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Qualified Inspector	Date
Printed Name of Qualified Inspector	Title

All Projects Must Complete the following Part IV - *(Attach additional sheets as needed)*

Part IV: Permittee Certification

The below information is required in accordance with Section 5(b)(4)(D) of the General Permit.

Certification by the Permittee

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Printed Name of Permittee	Title

All Projects Must Complete the following Part V - *(Attach additional documentation as needed)*

Part V: Additional Submittals

The following attachments are required to be submitted along with the Notice of Termination Form:

☐ Post-Construction Inspection Report (must contain photos with time stamps)

☐ Final Stabilization Inspection Report (must contain photos with time stamps)

Complete and submit this form in accordance with the general permit (DEEP-WPED-GP-015) to ensure the proper handling of the termination. Print or type unless otherwise noted.

Submit this Notice of Termination Form to the address below, as well as via email to DEEP.StormwaterStaff@ct.gov:

WATER PERMITTING AND ENFORCEMENT DIVISION/STORMWATER GROUP
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Construction Contracts - Required Contract Provisions
(FHWA and State Funded Contracts)

Index

1. Federal Highway Administration (FHWA) Form 1273 (Revised October 2023)

2. Title VI of the Civil Rights Act of 1964 / Nondiscrimination Requirements

3. Requirements of Title 49, CFR, Part 26, Participation by DBEs

4. Contract Wage Rates

5. Americans with Disabilities Act of 1990, as Amended

6. Connecticut Statutory Labor Requirements

    a. Construction, Alteration or Repair of Public Works Projects; Wage Rates
    b. Debarment List - Limitation on Awarding Contracts
    c. Construction Safety and Health Course
    d. Awarding of Contracts to Occupational Safety and Health Law Violators Prohibited
    e. Residents Preference in Work on Other Public Facilities (Not Applicable to Federal Aid Contracts)

7. Tax Liability - Contractor's Exempt Purchase Certificate (CERT – 141)

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(pursuant to section 4a-60 and 4a- 60a of the Connecticut General Statutes, as revised)

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Index of Exhibits

EXHIBIT A - FHWA Form 1273 (Begins on page 17)
EXHIBIT B - Title VI Contractor Assurances (page 31)
EXHIBIT C - Health Insurance Portability and Accountability Act of 1996 (HIPAA) (page 33)
EXHIBIT D - Affirmative Action Policy Statement (page 41)
EXHIBIT E - State Wage Rates & Other Related Information (Attached at the end)
EXHIBIT F - Federal Wage Rates (Attached at the end)

1. Federal Highway Administration (FHWA) Form 1273

The Contractor shall comply with the Federal Highway Administration (FHWA), Form 1273 attached at Exhibit A, as revised, which is hereby made part of this contract. The Contractor shall also require its subcontractors to comply with the FHWA – Form 1273 and include the FHWA – Form 1273 as an attachment to all subcontracts and purchase orders.

2. Title VI of the Civil Rights Act of 1964 / Nondiscrimination Requirements

The Contractor shall comply with Title VI of the Civil Rights Act of 1964 as amended (42 U.S.C. 2000 et seq.), all requirements imposed by the regulations of the United States Department of Transportation (49 CFR Part 21) issued in implementation thereof, and the Title VI Contractor Assurances attached hereto at Exhibit B, all of which are hereby made a part of this Contract.

3. Requirements of Title 49, Code of Federal Regulations (CFR), Part 26, Participation by DBEs, as may be revised.

Pursuant to 49 CFR 26.13, the following paragraph is part of this Contract and shall be included in each subcontract the Contractor enters into with a subcontractor:

"The Contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26, Participation by DBEs, in the award and administration of U.S. DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this contract or such other remedy as ConnDOT (recipient) deems appropriate, which may include, but is not limited to: (1) Withholding monthly progress payments, (2) Assessing sanctions, (3) Liquidated damages; and/or, (4) Disqualifying the contractor from future bidding as non-responsible."

4. Contract Wage Rates

The Contractor shall comply with:

The Federal and State wage rate requirements indicated in Exhibits F and G hereof, as revised, are hereby made part of this Contract. The Federal wage rates (Davis-Bacon Act) applicable to this Contract shall be the Federal wage rates that are current on the US Department of Labor website (http://www.wdol.gov/dba.aspx) as may be revised 10 days prior to bid opening. These applicable Federal wage rates will be physically incorporated in the final contract document executed by both parties. The Department will no longer physically include revised Federal wage rates in the bid documents or as part of addenda documents, prior to the bid opening date. During the bid advertisement period, bidders are responsible for obtaining the appropriate Federal wage rates from the US Department of Labor website.

To obtain the latest Federal wage rates go to the US Department of Labor website (link above). Under Davis-Bacon Act, choose "Selecting DBA WDs" and follow the instruction to search the latest wage rates for the State, County and Construction Type. Refer to the Notice to Contractor (NTC) - Federal Wage Determinations (Davis Bacon Act).

If a conflict exists between the Federal and State wage rates, the higher rate shall govern.

Prevailing Wages for Work on State Highways; Annual Adjustments. With respect to contracts for work on state highways and bridges on state highways, the Contractor shall comply with the provisions of Section 31-54 and 31-55a of the Connecticut General Statutes, as revised.

As required by Section 1.05.12 (Payrolls) of the State of Connecticut, Department of Transportation's Standard Specification for Roads, Bridges and Incidental Construction (FORM 819), as may be revised, every Contractor or subcontractor performing project work on a Federal aid project is required to post the relevant prevailing wage rates as determined by the United States Secretary of Labor. The wage rate determinations shall be posted in prominent and easily accessible places at the work site.

5. Americans with Disabilities Act of 1990, as Amended

This provision applies to those Contractors who are or will be responsible for compliance with the terms of the Americans with Disabilities Act of 1990, as amended (42 U.S.C. 12101 et seq.), (Act), during the term of the Contract. The Contractor represents that it is familiar with the terms of this Act and that it is in compliance with the Act. Failure of the Contractor to satisfy this standard as the same applies to performance under this Contract, either now or during the term of the Contract as it may be amended, will render the Contract voidable at the option of the State upon notice to the contractor. The Contractor warrants that it will hold the State harmless and indemnify the State from any liability which may be imposed upon the State as a result of any failure of the Contractor to be in compliance with this Act, as the same applies to performance under this Contract.

6. Connecticut Statutory Labor Requirements

(a) Construction, Alteration or Repair of Public Works Projects; Wage Rates. The Contractor shall comply with Section 31-53 of the Connecticut General Statutes, as revised. The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (i) of section 31-53 of the Connecticut General Statutes, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day.

(b) Debarment List. Limitation on Awarding Contracts. The Contractor shall comply with Section 3l-53a of the Connecticut General Statutes, as revised.

(c) Construction Safety and Health Course. The Contractor shall comply with section 31-53b of the Connecticut General Statutes, as revised. The contractor shall furnish proof to the Labor Commissioner 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 of the Connecticut General Statutes, as revised, 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.

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.

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".

(d) Awarding of Contracts to Occupational Safety and Health Law Violators Prohibited. The Contract is subject to Section 31-57b of the Connecticut General Statutes, as revised.

(e) Residents Preference in Work on Other Public Facilities. NOT APPLICABLE TO FEDERAL AID CONTRACTS. Pursuant to Section 31-52a of the Connecticut General Statutes, as revised, in the employment of mechanics, laborers or workmen to perform the work specified herein, preference shall be given to residents of the state who are, and continuously for at least six months prior to the date hereof have been, residents of this state, and if no such person is available, then to residents of other states.

7. Tax Liability - Contractor's Exempt Purchase Certificate (CERT – 141)

The Contractor shall comply with Chapter 219 of the Connecticut General Statutes pertaining to tangible personal property or services rendered that is/are subject to sales tax. The Contractor is responsible for determining its tax liability. If the Contractor purchases materials or supplies pursuant to the Connecticut Department of Revenue Services' "Contractor's Exempt Purchase Certificate (CERT-141)," as may be revised, the Contractor acknowledges and agrees that title to such materials and supplies installed or placed in the project will vest in the State simultaneously with passage of title from the retailers or vendors thereof, and the Contractor will have no property rights in the materials and supplies purchased.

Forms and instructions are available anytime by:

Internet: Visit the DRS website at www.ct.gov/DRS to download and print Connecticut tax forms; or **Telephone**: Call 1-800-382-9463 (Connecticut calls outside the Greater Hartford calling area only) and select Option 2 or call 860-297-4753 (from anywhere).

8. Executive Orders and Other Enactments

(a) All references in this Contract to any Federal, State, or local law, statute, public or special act, executive order, ordinance, regulation or code (collectively, "Enactments") shall mean Enactments that apply to the Contract at any time during its term, or that may be made applicable to the Contract during its term. This Contract shall always be read and interpreted in accordance with the latest applicable wording and requirements of the Enactments. Unless otherwise provided by Enactments, the Contractor is not relieved of its obligation to perform under this Contract if it chooses to contest the applicability of the Enactments or the Client Agency's authority to require compliance with the Enactments.

(b) This Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of this Contract as if they had been fully set forth in it.

(c) This Contract may be subject to (1) Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services; and (2) Executive Order No. 61 of Governor Dannel P. Malloy promulgated December 13, 2017, concerning the Policy for the Management of State Information Technology Projects, as issued by the Office of Policy and Management, Policy ID IT-SDLC-17-
04. If any of the Executive Orders referenced in this subsection is applicable, it is deemed to be incorporated into and made a part of this Contract as if fully set forth in it.

9. Non-Discrimination Requirement and Certification (pursuant to section 4a-60 and 4a-60a o f the Connecticut General Statutes, as revised): References to "minority business enterprises" in this Section are not applicable to Federal-aid projects/contracts. Federal-aid projects/contracts are instead subject to the Federal Disadvantaged Business Enterprise Program.

(a) For purposes of this Section, the following terms are defined as follows:

i. "Commission" means the Commission on Human Rights and Opportunities;

ii. "Contract" and "contract" include any extension or modification of the Contract or contract;

iii. "Contractor" and "contractor" include any successors or assigns of the Contractor or contractor;

iv. "Gender identity or expression" means a person's gender-related identity, appearance or behavior, whether or not that gender-related identity, appearance or behavior is different from that traditionally associated with the person's physiology or assigned sex at birth, which gender-related identity can be shown by providing evidence including, but not limited to, medical history, care or treatment of the gender-related identity, consistent and uniform assertion of the gender-related identity or any other evidence that the gender-related identity is sincerely held, part of a person's core identity or not being asserted for an improper purpose;

v. "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations;

vi. "good faith efforts" includes, but is not limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements;

vii. "marital status" means being single, married as recognized by the state of Connecticut, widowed, separated or divorced;

viii. "mental disability" means one or more mental disorders, as defined in the most recent edition of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders", or a record of or regarding a person as having one or more such disorders;

ix. "minority business enterprise" means any small contractor (1) fifty-one per cent or more of the capital stock, if any, or assets of which are owned by a person or persons who (a) exercise operational authority over the daily affairs of the enterprise, (b) have the power to direct the management and policies and receive the beneficial interest of the enterprise, (c) possess managerial and technical competence and experience directly related to the principal business activities of the enterprise, and (d) are members of a minority, as defined in C.G.S. § 32-9n, or are individuals with a disability, or (2) which is a nonprofit corporation in which fifty-one per cent or more of the persons who exercise operational authority over the enterprise, (a) possess managerial and technical competence and experience directly related to the principal business activities of the enterprise, (b) have the power to direct the management and policies of the enterprise, and (c) are member of a minority, as defined in C.G.S. § 32-9n, or are individuals with a disability; and

x. "public works contract" means any agreement (A) for construction, rehabilitation, conversion, extension, demolition or repair of changes or improvements in real property, and (B) that is financed in whole or in part by the state, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees where such funding equals one hundred fifty thousand dollars or more.

For purposes of this Section, the terms “Contract” and “contract” do not include a contract where each contractor is (1) a political subdivision of the state, including, but not limited to, a municipality, unless the contract is a public works contract, (2) any other state, including but not limited to any federally recognized Indian tribal governments, as defined in C.G.S. § 1-267, (3) the federal government, (4) a foreign government, or (5) an agency of a subdivision, state or government described in the immediately preceding enumerated items (1), (2), (3),or (4).

(b) (1) The Contractor agrees and warrants that in the performance of the Contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, sexual orientation, gender identity or expression, status as a veteran, status as a victim of domestic violence, status as a victim of sexual assault or status as a victim of trafficking in persons, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Contractor further agrees to take affirmative action to ensure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, sexual orientation, status as a veteran, status as a victim of domestic violence, status as a victim of sexual assault or status as a victim of trafficking in persons,

intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Contractor that such disability prevents performance of the work involved;

(2) the Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that it is an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the Commission;

(3) the Contractor agrees to provide each labor union or representative of workers with which the Contractor has a collective bargaining Agreement or other contract or understanding and each vendor with which the Contractor has a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Contractor's commitments under this Section and to post copies of the notice in conspicuous places available to employees and applicants for employment;

(4) the Contractor agrees to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e, 46a-68f and 46a-86; and

(5) the Contractor agrees to provide the Commission with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Contractor as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Contractor agrees and warrants that he or she will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works projects.

(c) Determination of the Contractor's good faith efforts shall include, but shall not be limited to, the following factors: The Contractor's employment and subcontracting policies, patterns and practices; the timing and value of bids; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the Commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The Contractor shall develop and maintain adequate documentation, in a manner prescribed by the Commission, of its good faith efforts.

(e) The Contractor shall include the provisions of subsection (b) of this Section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State, and in every subcontract entered into in order to fulfill any obligation of a public works contract, and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Contractor shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions, including sanctions for noncompliance in accordance with Connecticut General Statutes § 46a-56; provided, if such Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Commission, the Contractor may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(f) The Contractor agrees to comply with the regulations referred to in this Section as they exist on the date of this Contract and as they may be adopted or amended from time to time during the term of this Contract and any amendments thereto.

(g) Pursuant to subsection (c) of section 4a-60 of the Connecticut General Statutes, the Contractor, for itself and its authorized signatory of this Contract, affirms that it understands the obligations of this Section and that it will maintain a policy for the duration of the Contract to assure that the Contract will be performed in compliance with the nondiscrimination requirements of such section. The Contractor and its authorized signatory of this Contract demonstrate their understanding of this obligation by (A) having provided an affirmative response in the required online bid or response to a proposal question which asks if the contractor understands its obligations under such sections, (B) signing this Contract, or (C) initialing this nondiscrimination affirmation in the following box: ☐

10. Whistleblower Provision

The following clause is applicable if the Contract has a value of Five Million Dollars ($5,000,000) or more.

Whistleblowing. This Contract may be subject to the provisions of Section 4-61dd of the Connecticut General Statutes. In accordance with this statute, if an officer, employee or appointing authority of the Contractor takes or threatens to take any personnel action against any employee of the Contractor in retaliation for such employee's disclosure of information to any employee of the contracting state or quasi-public agency or the Auditors of Public Accounts or the Attorney General under the provisions of subsection (a) of such statute, the Contractor shall be liable for a civil penalty of not more than five thousand dollars for each offense, up to a maximum of twenty per cent of the value of this Contract. Each violation shall be a separate and distinct offense and in the case of a continuing violation, each calendar day's continuance of the violation shall be deemed to be a separate and distinct offense. The State may request that the Attorney General bring a civil action in the Superior Court for the Judicial District of Hartford to seek imposition and recovery of such civil penalty. In accordance with subsection (f) of such statute, each large state contractor, as defined in the statute, shall post a notice of the provisions of the statute relating to large state contractors in a conspicuous place which is readily available for viewing by the employees of the Contractor.

11. Connecticut Freedom of Information Act

(a) Disclosure of Records. This Contract may be subject to the provisions of section 1-218 of the Connecticut General Statutes. In accordance with this statute, each contract in excess of two million five hundred thousand dollars between a public agency and a person for the performance of a governmental function shall (a) provide that the public agency is entitled to receive a copy of records and files related to the performance of the governmental function, and (b) indicate that such records and files are subject to FOIA and may be disclosed by the public agency pursuant to FOIA. No request to inspect or copy such records or files shall be valid unless the request is made to the public agency in accordance with FOIA. Any complaint by a person who is denied the right to inspect or copy such records or files shall be brought to the Freedom of Information Commission in accordance with the provisions of sections 1-205 and 1-206 of the Connecticut General Statutes.

(b) Confidential Information. The State will afford due regard to the Contractor's request for the protection of proprietary or confidential information which the State receives from the Contractor. However, all materials associated with the Contract are subject to the terms of the FOIA and all corresponding rules, regulations and

interpretations. In making such a request, the Contractor may not merely state generally that the materials are proprietary or confidential in nature and not, therefore, subject to release to third parties. Those particular sentences, paragraphs, pages or sections that the Contractor believes are exempt from disclosure under the FOIA must be specifically identified as such. Convincing explanation and rationale sufficient to justify each exemption consistent with the FOIA must accompany the request. The rationale and explanation must be stated in terms of the prospective harm to the competitive position of the Contractor that would result if the identified material were to be released and the reasons why the materials are legally exempt from release pursuant to the FOIA. To the extent that any other provision or part of the Contract conflicts or is in any way inconsistent with this section, this section controls and shall apply, and the conflicting provision or part shall not be given effect. If the Contractor indicates that certain documentation is submitted in confidence, by specifically and clearly marking the documentation as "CONFIDENTIAL," DOT will first review the Contractor's claim for consistency with the FOIA (that is, review that the documentation is actually a trade secret or commercial or financial information and not required by statute), and if determined to be consistent, will endeavor to keep such information confidential to the extent permitted by law. See, *e.g.*, Conn. Gen. Stat. §1- 210(b)(5) (A-B). The State, however, has no obligation to initiate, prosecute or defend any legal proceeding or to seek a protective order or other similar relief to prevent disclosure of any information that is sought pursuant to a FOIA request. Should the State withhold such documentation from a Freedom of Information requester and a complaint be brought to the Freedom of Information Commission, the Contractor shall have the burden of cooperating with DOT in defense of that action and in terms of establishing the availability of any FOIA exemption in any proceeding where it is an issue. In no event shall the State have any liability for the disclosure of any documents or information in its possession which the State believes are required to be disclosed pursuant to the FOIA or other law.

12. Service of Process

The Contractor, if not a resident of the State of Connecticut, or, in the case of a partnership, the partners, if not residents, hereby appoints the Secretary of State of the State of Connecticut, and his successors in office, as agent for service of process for any action arising out of or as a result of this Contract; such appointment to be in effect throughout the life of this Contract and six (6) years thereafter.

13. Substitution of Securities for Retainages on State Contracts and Subcontracts

This Contract is subject to the provisions of Section 3-ll2a of the General Statutes of the State of Connecticut, as revised.

14. Health Insurance Portability and Accountability Act of 1996 (HIPAA)

The Contractor shall comply, if applicable, with the Health Insurance Portability and Accountability Act of 1996 and, pursuant thereto, the provisions attached at Exhibit D, and hereby made part of this Contract.

15. Forum and Choice of Law

The parties deem the Contract to have been made in the City of Hartford, State of Connecticut. Both parties agree that it is fair and reasonable for the validity and construction of the Contract to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by Federal law or the laws of the State of Connecticut do not bar an action against the State, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Contractor waives any objection which it may now have or will have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

16. Summary of State Ethics Laws

Pursuant to the requirements of section 1-101qq of the Connecticut General Statutes (a) the State has provided to the Contractor the summary of State ethics laws developed by the Office of State Ethics pursuant to section 1-81b of the Connecticut General Statutes, which summary is incorporated by reference into and made a part of this Contract as if the summary had been fully set forth in this Contract; (b) the Contractor represents that the chief executive officer or authorized signatory of the Contract and all key employees of such officer or signatory have read and understood the summary and agree to comply with the provisions of state ethics law; (c) prior to entering into a contract with any subcontractors or consultants, the Contractor shall provide the summary to all subcontractors and consultants and each such contract entered into with a subcontractor or consultant on or after July 1, 2021, shall include a representation that each subcontractor or consultant and the key employees of such subcontractor or consultant have read and understood the summary and agree to comply with the provisions of state ethics law; (d) failure to include such representations in such contracts with subcontractors or consultants shall be cause for termination of the Contract; and (e) each contract with such contractor, subcontractor or consultant shall incorporate such summary by reference as a part of the contract terms.

17. Audit and Inspection of Plants, Places of Business and Records

(a) The State and its agents, including, but not limited to, the Connecticut Auditors of Public Accounts, Attorney General and State's Attorney and their respective agents, may, at reasonable hours, inspect and examine all of the parts of the Contractor's and Contractor Parties' plants and places of business which, in any way, are related to, or involved in, the performance of this Contract. For the purposes of this Section, "Contractor Parties" means the Contractor's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the Contractor is in privity of oral or written contract and the Contractor intends for such other person or entity to Perform under the Contract in any capacity.

(b) The Contractor shall maintain and shall require each of the Contractor Parties to maintain, accurate and complete Records. The Contractor shall make all of its and the Contractor Parties' Records available at all reasonable hours for audit and inspection by the State and its agents.

(c) The State shall make all requests for any audit or inspection in writing and shall provide the Contractor with at least twenty-four (24) hours' notice prior to the requested audit and inspection date. If the State suspects fraud or other abuse, or in the event of an emergency, the State is not obligated to provide any prior notice.

(d) The Contractor shall keep and preserve or cause to be kept and preserved all of its and Contractor Parties' Records until three (3) years after the latter of (i) final payment under this Agreement, or (ii) the expiration or earlier termination of this Agreement, as the same may be modified for any reason. The State may request an audit or inspection at any time during this period. If any Claim or audit is started before the expiration of this period, the Contractor shall retain or cause to be retained all Records until all Claims or audit findings have been resolved.

(e) The Contractor shall cooperate fully with the State and its agents in connection with an audit or inspection. Following any audit or inspection, the State may conduct, and the Contractor shall cooperate with an exit conference.

(f) The Contractor shall incorporate this entire Section verbatim into any contract or other agreement that it enters into with any Contractor Party.

18. Campaign Contribution Restriction

Campaign Contribution Restriction. For all State contracts, defined in section 9-612 of the Connecticut General Statutes as having a value of $50,000 or more, or a combination or series of such agreements or contracts having a value of $100,000 or more in a calendar year, the authorized signatory to this Agreement represents that they have received the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice.

19. Tangible Personal Property

(a) The Contractor on its behalf and on behalf of its Affiliates, as defined below, shall comply with the provisions of Conn. Gen. Stat. §12-411b, as follows:

(1) For the term of the Contract, the Contractor and its Affiliates shall collect and remit to the State of Connecticut, Department of Revenue Services, any Connecticut use tax due under the provisions of Chapter 219 of the Connecticut General Statutes for items of tangible personal property sold by the Contractor or by any of its Affiliates in the same manner as if the Contractor and such Affiliates were engaged in the business of selling tangible personal property for use in Connecticut and had sufficient nexus under the provisions of Chapter 219 to be required to collect Connecticut use tax;

(2) A customer's payment of a use tax to the Contractor or its Affiliates relieves the customer of liability for the use tax;

(3) The Contractor and its Affiliates shall remit all use taxes they collect from customers on or before the due date specified in the Contract, which may not be later than the last day of the month next succeeding the end of a calendar quarter or other tax collection period during which the tax was collected;

(4) The Contractor and its Affiliates are not liable for use tax billed by them but not paid to them by a customer; and

(5) Any Contractor or Affiliate who fails to remit use taxes collected on behalf of its customers by the due date specified in the Contract shall be subject to the interest and penalties provided for persons required to collect sales tax under chapter 219 of the general statutes.

(b) For purposes of this section of the Contract, the word "Affiliate" means any person, as defined in section 12-1 of the general statutes, that controls, is controlled by, or is under common control with another person. A person controls another person if the person owns, directly or indirectly, more than ten per cent of the voting securities of the other person. The word "voting security" means a security that confers upon the holder the right to vote for the election of members of the board of directors or similar governing body of the business, or

that is convertible into, or entitles the holder to receive, upon its exercise, a security that confers such a right to vote. "Voting security" includes a general partnership interest.

(c) The Contractor represents and warrants that each of its Affiliates has vested in the Contractor plenary authority to so bind the Affiliates in any agreement with the State of Connecticut. The Contractor on its own behalf and on behalf of its Affiliates shall also provide, no later than 30 days after receiving a request by the State's contracting authority, such information as the State may require to ensure, in the State's sole determination, compliance with the provisions of Chapter 219 of the Connecticut General Statutes, including, but not limited to, §12-411b.

20. Bid Rigging and/or Fraud – Notice to Contractor

The Connecticut Department of Transportation is cooperating with the U.S. Department of Transportation and the Justice Department in their investigation into highway construction contract bid rigging and/or fraud.

A toll-free "HOT LINE" telephone number 800-424-9071 has been established to receive information from contractors, subcontractors, manufacturers, suppliers or anyone with knowledge of bid rigging and/or fraud, either past or current. The "HOT LINE" telephone number will be available during normal working hours (8:00 am – 5:00 pm EST). Information will be treated confidentially, and anonymity respected.

21. Consulting Agreement Representation

Pursuant to section 4a-81 of the Connecticut General Statutes, the person signing this Contract on behalf of the Contractor represents, to their best knowledge and belief and subject to the penalty of false statement as provided in section 53a-157b of the Connecticut General Statutes, that the Contractor has not entered into any consulting agreements in connection with this Contract, except for the agreements listed below or in an attachment to this Contract. "Consulting agreement" means any written or oral agreement to retain the services, for a fee, of a consultant for the purposes of

(A) providing counsel to a contractor, vendor, consultant or other entity seeking to conduct, or conducting, business with the State, (B) contacting, whether in writing or orally, any executive, judicial, or administrative office of the State, including any department, institution, bureau, board, commission, authority, official or employee for the purpose of solicitation, dispute resolution, introduction, requests for information, or (C) any other similar activity related to such contracts. "Consulting agreement" does not include any agreements entered into with a consultant who is registered under the provisions of chapter 10 of the Connecticut General Statutes as of the date such contract is executed in accordance with the provisions of section 4a-81 of the Connecticut General Statutes.

Consultant's Name and Title _____ Name of Firm (if applicable) _____

Start Date _____ End Date _____ Cost _____

The basic terms of the consulting agreement are: _____

Description of Services Provided: _____

Is the consultant a former State employee or former public official? ☐ YES ☐ NO If YES: _____

Name of Former State Agency Termination Date of Employment

22. Cargo Preference Act Requirements (46 CFR 381.7(a)-(b)) – Use of United States Flag Vessels

The Contractor agrees to comply with the following:

(a) ***Agreement Clauses***.

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of- lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(b) ***Contractor and Subcontractor Clauses.*** The contractor agrees—

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean

bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

23. Sovereign Immunity

The parties acknowledge and agree that nothing in the Solicitation or the Contract shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by Federal law or the laws of the State of Connecticut to the State or any of its officers and employees, which they may have had, now have or will have with respect to all matters arising out of the Contract. To the extent that this section conflicts with any other section, this section shall govern.

24. Large State Contract Representation for Contractor

Pursuant to section 4-252 of the Connecticut General Statutes and Acting Governor Susan Bysiewicz Executive Order No. 21-2, promulgated July 1, 2021, the Contractor, for itself and on behalf of all of its principals or key personnel who submitted a bid or proposal, represents:

(1) That no gifts were made by (A) the Contractor, (B) any principals and key personnel of the Contractor, who participate substantially in preparing bids, proposals or negotiating State contracts, or (C) any agent of the Contractor or principals and key personnel, who participates substantially in preparing bids, proposals or negotiating State contracts, to (i) any public official or State employee of the State agency or quasi- public agency soliciting bids or proposals for State contracts, who participates substantially in the preparation of bid solicitations or requests for proposals for State contracts or the negotiation or award of State contracts, or (ii) any public official or State employee of any other State agency, who has supervisory or appointing authority over such State agency or quasi-public agency;

(2) That no such principals and key personnel of the Contractor, or agent of the Contractor or of such principals and key personnel, knows of any action by the Contractor to circumvent such prohibition on gifts by providing for any other principals and key personnel, official, employee or agent of the Contractor to provide a gift to any such public official or State employee; and

(3) That the Contractor is submitting bids or proposals without fraud or collusion with any person.

25. Large State Contract Representation for Official or Employee of State Agency

Pursuant to section 4-252 of the Connecticut General Statutes and Acting Governor Susan Bysiewicz Executive Order No. 21-2, promulgated July 1, 2021, the State agency official or employee represents that the selection of the person, firm or corporation was not the result of collusion, the giving of a gift or the promise of a gift, compensation, fraud or inappropriate influence from any person.

26. Iran Investment Energy Certification

(a) Pursuant to section 4-252a of the Connecticut General Statutes, the Contractor certifies that it has not made a direct investment of twenty million dollars or more in the energy sector of Iran on or after October 1, 2013, as described in Section 202 of the Comprehensive Iran Sanctions, Accountability and Divestment Act of 2010, and has not increased or renewed such investment on or after said date.

(b) If the Contractor makes a good faith effort to determine whether it has made an investment described in subsection (a) of this section, then the Contractor shall not be deemed to be in breach of the Contract or in violation of this section.

A "good faith effort" for purposes of this subsection includes a determination that the Contractor is not on the list of persons who engage in certain investment activities in Iran created by the Department of General Services of the State of California pursuant to Division 2, Chapter 2.7 of the California Public Contract Code. Nothing in this subsection shall be construed to impair the ability of the State agency or quasi-public agency to pursue a breach of contract action for any violation of the provisions of the Contract.

27. Access to Contract and State Data

The Contractor shall provide to the Client Agency access to any data, as defined in Conn. Gen Stat. Sec. 4e-1, concerning the Contract and the Client Agency that are in the possession or control of the Contractor upon demand and shall provide the data to the Client Agency in a format prescribed by the Client Agency and the State Auditors of Public Accounts at no additional cost.

28. Affirmative Action Policy Statement

The Contractor shall comply with the Affirmative Action Policy Statement, as applicable, attached at Exhibit E and hereby made part of this Contract.

29. Compliance with Consumer Data Privacy and Online Monitoring

Pursuant to section 4e-72a of the Connecticut General Statutes, Contractor shall at all times comply with all applicable provisions of sections 42-515 to 42-525, inclusive, of the Connecticut General Statutes, as the same may be revised or modified.

EXHIBIT A

FHWA-1273 – Revised October 23, 2023

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Non-segregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
XI. Certification Regarding Use of Contract Funds for Lobbying
XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (*see* 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

(1) Withholding monthly progress payments;
(2) Assessing sanctions;
(3) Liquidated damages; and/or
(4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than $10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided,* That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH–1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to *DBAconformance@dol.gov*. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to *DBAconformance@dol.gov*, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided,* That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. *Basic record requirements* (1) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.,* the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH–347 or in any other format desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division website at *https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347/.pdf* or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3; and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH–347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 3729.

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or 29 CFR part 1 or 3; or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or 29 CFR part 1 or 3.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* $31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of $150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. **Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B) This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

EXHIBIT B
TITLE VI CONTRACTOR ASSURANCES
APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations**: The contactor (hereinafter includes consultants) will comply with the Regulations relative to Nondiscrimination in Federally assisted programs of the United States Department of Transportation Federal Highway Administration and Federal Transit Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, sex, age, disability, income or Limited English Proficiency in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. **Solicitations for Subcontracts, Including Procurements of Materials** and Equipment: In all solicitations, either by bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and Acts and the Regulations relative to Non- discrimination on the grounds of race, color, or national origin.

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration or Federal Transit Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor will so certify to the Recipient or the Federal Highway Administration or the Federal Transit Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Non-compliance:** In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration or the Federal Transit Administration may determine to be appropriate, including, but not limited to:

   a. withholding contract payments to the contractor under the contract until the contractor complies; and/or
   b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration or the Federal Transit Administration may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, that if the contractor becomes involved in, or is threatened with, litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX B

TITLE VI CONTRACTOR ASSURANCES

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following nondiscrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. § 2000d et seq.), (prohibits discrimination on the basis of race, color, national origin), as implemented by 49 C.F.R. § 21.1 et seq. and 49 C.F.R. part 303;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973 (23 U.S.C. § 324 et seq.) (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794 et seq.) (prohibits discrimination on the basis of disability); and 49 C.F.R. part 27;
- The Age Discrimination Act of 1975, as amended (42 U.S.C. § 6101 et seq.) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (Pub. L. 97-248 (1982)), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (102 Stat. 28) *(" ... which restore[d] the broad scope of coverage and to clarify the application of Title IX of the Education Amendments of 1972, section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and Title VI of the Civil Rights Act of 1964.");*
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 --12189), as implemented by Department of Justice regulations at 28 C.F.R. parts 35 and 36, and Department of Transportation regulations at 49 C.F.R. parts 37 and 38;

- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. § 1681 et seq).

EXHIBIT C

Health Insurance Portability and Accountability Act of 1996 ("HIPAA").

(a) If the Contactor is a Business Associate under the requirements of the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), the Contractor must comply with all terms and conditions of this Section of the Contract. If the Contractor is not a Business Associate under HIPAA, this Section of the Contract does not apply to the Contractor for this Contract.

(b) The Contractor is required to safeguard the use, publication and disclosure of information on all applicants for, and all clients who receive, services under the Contract in accordance with all applicable federal and state law regarding confidentiality, which includes but is not limited to HIPAA, more specifically with the Privacy and Security Rules at 45 C.F.R. Part 160 and Part 164, subparts A, C, and E; and

(c) The State of Connecticut Agency named on page 1 of this Contract (hereinafter the "Department") is a "covered entity" as that term is defined in 45 C.F.R. § 160.103; and

(d) The Contractor, on behalf of the Department, performs functions that involve the use or disclosure of "individually identifiable health information," as that term is defined in 45
C.F.R. § 160.103; and

(e) The Contractor is a "business associate" of the Department, as that term is defined in 45 C.F.R. § 160.103; and

(f) The Contractor and the Department agree to the following in order to secure compliance with the HIPAA, the requirements of Subtitle D of the Health Information Technology for Economic and Clinical Health Act (hereinafter the HITECH Act), (Pub. L. 111-5, sections 13400 to 13423), and more specifically with the Privacy and Security Rules at 45 C.F.R. Part 160 and Part 164, subparts A, C, and E.

(g) Definitions

(1) "Breach shall have the same meaning as the term is defined in section 13400 of the HITECH Act (42 U.S.C. §17921(1))

(2) "Business Associate" shall mean the Contractor.

(3) "Covered Entity" shall mean the Department of the State of Connecticut named on page 1 of this Contract.

(4) "Designated Record Set" shall have the same meaning as the term "designated record set" in 45 C.F.R. § 164.501.

(5) "Electronic Health Record" shall have the same meaning as the term is defined in section 13400 of the HITECH Act (42 U.S.C. §17921(5))

(6) "Individual" shall have the same meaning as the term "individual"' in 45 C.F.R. § 160.103 and shall include a person who qualifies as a personal representative as defined in 45 C.F.R. § 164.502(g).

(7) "Privacy Rule" shall mean the Standards for Privacy of Individually Identifiable Health Information at 45 C.F.R. part 160 and parts 164, subparts A and E.

(8) "Protected Health Information" or "PHI" shall have the same meaning as the term "protected health information" in 45 C.F.R. § 160.103, limited to information created or received by the Business Associate from or on behalf of the Covered Entity.

(9) "Required by Law"' shall have the same meaning as the term "required by law" in 45 C.F.R. § 164.103.

(10) "Secretary" shall mean the Secretary of the Department of Health and Human Services or his designee.

(11) "More stringent" shall have the same meaning as the term "more stringent" in 45 C.F.R. § 160.202.

(12) "This Section of the Contract" refers to the HIPAA Provisions stated herein, in their entirety.

(13) "Security Incident" shall have the same meaning as the term "security incident" in 45 C.F.R.§ 164.304.

(14) "Security Rule" shall mean the Security Standards for the Protection of Electronic Protected Health Information at 45 C.F.R. part 160 and parts 164, subpart A and C.

(15) "Unsecured protected health information" shall have the same meaning as the term as defined in section 13402(h)(1)(A) of HITECH. Act. (42 U.S.C. §17932(h)(1)(A)).

(h) Obligations and Activities of Business Associates.

(1) Business Associate agrees not to use or disclose PHI other than as permitted or required by this Section of the Contract or as Required by Law.

(2) Business Associate agrees to use appropriate safeguards to prevent use or disclosure of PHI other than as provided for in this Section of the Contract.

(3) Business Associate agrees to use administrative, physical and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of electronic protected health information that it creates, receives, maintains, or transmits on behalf of the Covered Entity.

(4) Business Associate agrees to mitigate, to the extent practicable, any harmful effect that is known to the Business Associate of a use or disclosure of PHI by Business Associate in violation of this Section of the Contract.

(5) Business Associate agrees to report to Covered Entity any use or disclosure of PHI not provided for by this Section of the Contract or any security incident of which it becomes aware.

(6) Business Associate agrees to ensure that any agent, including a subcontractor, to whom it provides PHI received from, or created or received by Business Associate, on behalf of the Covered Entity, agrees to the same restrictions and conditions that apply through this Section of the Contract to Business Associate with respect to such information.

(7) Business Associate agrees to provide access, at the request of the Covered Entity, and in the time and manner agreed to by the parties, to PHI in a Designated Record Set, to Covered Entity or, as directed by Covered Entity, to an Individual in order to meet the requirements under 45 C.F.R. § 164.524.

(8) Business Associate agrees to make any amendments to PHI in a Designated Record Set that the Covered Entity directs or agrees to pursuant to 45 C.F.R. § 164.526 at the request of the Covered Entity, and in the time and manner agreed to by the parties.

(9) Business Associate agrees to make internal practices, books, and records, including policies and procedures and PHI, relating to the use and disclosure of PHI received from, or created or received by, Business Associate on behalf of Covered Entity, available to Covered Entity or to the Secretary in a time and manner agreed to by the parties or designated by the Secretary, for purposes of the Secretary determining Covered Entity's compliance with the Privacy Rule.

(10) Business Associate agrees to document such disclosures of PHI and information related to such disclosures as would be required for Covered Entity to respond to a request by an Individual for an accounting of disclosures of PHI in accordance with 45 C.F.R. § 164.528 and section 13405 of the HITECH Act (42 U.S.C. § 17935) and any regulations promulgated thereunder.

(11) Business Associate agrees to provide to Covered Entity, in a time and manner agreed to by the parties, information collected in accordance with clause h. (10) of this Section of the Contract, to permit Covered Entity to respond to a request by an Individual for an accounting of disclosures of PHI in accordance with 45 C.F.R. § 164.528 and section 13405 of the HITECH Act (42 U.S.C. § 17935) and any regulations promulgated

thereunder. Business Associate agrees at the Covered Entity's direction to provide an accounting of disclosures of PHI directly to an individual in accordance with 45 C.F.R. § 164.528 and section 13405 of the HITECH Act (42 U.S.C. § 17935) and any regulations promulgated thereunder.

(12)Business Associate agrees to comply with any state or federal law that is more stringent than the Privacy Rule.

(13) Business Associate agrees to comply with the requirements of the HITECH Act relating to privacy and security that are applicable to the Covered Entity and with the requirements of 45 C.F.R. sections 164.504(e), 164.308, 164.310, 164.312, and 164.316.

(14) In the event that an individual requests that the Business Associate (a) restrict disclosures of PHI; (b) provide an accounting of disclosures of the individual's PHI; or (c) provide a copy of the individual's PHI in an electronic health record, the Business Associate agrees to notify the covered entity, in writing, within two business days of the request.

(15) Business Associate agrees that it shall not, directly or indirectly, receive any remuneration in exchange for PHI of an individual without (1) the written approval of the covered entity, unless receipt of remuneration in exchange for PHI is expressly authorized by this Contract and (2) the valid authorization of the individual, except for the purposes provided under section 13405(d)(2) of the HITECH Act,(42 U.S.C. § 17935(d)(2)) and in any accompanying regulations

(16) Obligations in the Event of a Breach

A. The Business Associate agrees that, following the discovery of a breach of unsecured protected health information, it shall notify the Covered Entity of such breach in accordance with the requirements of section 13402 of HITECH (42 U.S.C. 17932(b) and the provisions of this Section of the Contract.
B. Such notification shall be provided by the Business Associate to the Covered Entity without unreasonable delay, and in no case later than 30 days after the breach is discovered by the Business Associate, except as otherwise instructed in writing by a law enforcement official pursuant to section 13402 (g) of HITECH (42 U.S.C. 17932(g)). A breach is considered discovered as of the first day on which it is, or reasonably should have been, known to the Business Associate. The notification shall include the identification and last known address, phone number and email address of each individual (or the next of kin of the individual if the individual is deceased) whose unsecured protected health information has been or is reasonably believed by the Business Associate to have been, accessed, acquired, or disclosed during such breach.
C. The Business Associate agrees to include in the notification to the Covered Entity at least the following information:

1. A brief description of what happened, including the date of the breach and the date of the discovery of the breach, if known.

2. A description of the types of unsecured protected health information that were involved in the breach (such as full name, Social Security number, date of birth, home address, account number, or disability code).

3. The steps the Business Associate recommends that individuals take to protect themselves from potential harm resulting from the breach.

4. A detailed description of what the Business Associate is doing to investigate the breach, to mitigate losses, and to protect against any further breaches.

5. Whether a law enforcement official has advised either verbally or in writing the Business Associate that he or she has determined that notification or notice to individuals or the posting required under section 13402 of the HITECH Act would impede a criminal investigation or cause damage to national security and; if so, include contact information for said official.

D. Business Associate agrees to provide appropriate staffing and have established procedures to ensure that individuals informed by the Covered Entity of a breach by the Business Associate have the opportunity to ask questions and contact the Business Associate for additional information regarding the breach. Such procedures shall include a toll-free telephone number, an e-mail address, a posting on its Web site and a postal address. Business Associate agrees to include in the notification of a breach by the Business Associate to the Covered Entity, a written description of the procedures that have been established to meet these requirements. Costs of such contact procedures will be borne by the Contractor.

E. Business Associate agrees that, in the event of a breach, it has the burden to demonstrate that it has complied with all notification's requirements set forth above, including evidence demonstrating the necessity of a delay in notification to the Covered Entity.

(i) Permitted Uses and Disclosure by Business Associate.

(1) General Use and Disclosure Provisions Except as otherwise limited in this Section of the Contract, Business Associate may use or disclose PHI to perform functions, activities, or services for, or on behalf of, Covered Entity as specified in this Contract, provided that such use or disclosure would not violate the Privacy Rule if done by

Covered Entity or the minimum necessary policies and procedures of the Covered Entity.

(2) Specific Use and Disclosure Provisions

(A) Except as otherwise limited in this Section of the Contract, Business Associate may use PHI for the proper management and administration of Business Associate or to carry out the legal responsibilities of Business Associate.

(B) Except as otherwise limited in this Section of the Contract, Business Associate may disclose PHI for the proper management and administration of Business Associate, provided that disclosures are Required by Law, or Business Associate obtains reasonable assurances from the person to whom the information is disclosed that it will remain confidential and used or further disclosed only as Required by Law or for the purpose for which it was disclosed to the person, and the person notifies Business Associate of any instances of which it is aware in which the confidentiality of the information has been breached.

(C) Except as otherwise limited in this Section of the Contract, Business Associate may use PHI to provide Data Aggregation services to Covered Entity as permitted by 45 C.F.R. § 164.504(e)(2)(i)(B).

(j) Obligations of Covered Entity.

(1) Covered Entity shall notify Business Associate of any limitations in its notice of privacy practices of Covered Entity, in accordance with 45 C.F.R. § 164.520, or to the extent that such limitation may affect Business Associate's use or disclosure of PHI.

(2) Covered Entity shall notify Business Associate of any changes in, or revocation of, permission by Individual to use or disclose PHI, to the extent that such changes may affect Business Associate's use or disclosure of PHI.

(3) Covered Entity shall notify Business Associate of any restriction to the use or disclosure of PHI that Covered Entity has agreed to in accordance with 45 C.F.R. § 164.522, to the extent that such restriction may affect Business Associate's use or disclosure of PHI.

(k) Permissible Requests by Covered Entity. Covered Entity shall not request Business Associate to use or disclose PHI in any manner that would not be permissible under the Privacy Rule if done by the Covered Entity, except that Business Associate may use and disclose PHI for data aggregation, and management and administrative activities of Business Associate, as permitted under this Section of the Contract.

(l) Term and Termination.

(1) Term. The Term of this Section of the Contract shall be effective as of the date the Contract is effective and shall terminate when the information collected in accordance with clause h. (10) of this Section of the Contract is provided to the Covered Entity and all of the PHI provided by Covered Entity to Business Associate, or created or received by Business Associate on behalf of Covered Entity, is destroyed or returned to Covered Entity, or, if it is infeasible to return or destroy PHI, protections are extended to such information, in accordance with the termination provisions in this Section.

(2) Termination for Cause Upon Covered Entity's knowledge of a material breach by Business Associate, Covered Entity shall either:

(A) Provide an opportunity for Business Associate to cure the breach or end the violation and terminate the Contract if Business Associate does not cure the breach or end the violation within the time specified by the Covered Entity; or

(B) Immediately terminate the Contract if Business Associate has breached a material term of this Section of the Contract and cure is not possible; or

(C) If neither termination nor cure is feasible, Covered Entity shall report the violation to the Secretary.

(3) Effect of Termination

(A) Except as provided in (l)(2) of this Section of the Contract, upon termination of this Contract, for any reason, Business Associate shall return or destroy all PHI received from Covered Entity or created or received by Business Associate on behalf of Covered Entity. Business Associate shall also provide the information collected in accordance with clause h. (10) of this Section of the Contract to the Covered Entity within ten business days of the notice of termination. This provision shall apply to PHI that is in the possession of subcontractors or agents of Business Associate. Business Associate shall retain no copies of the PHI.

(B) In the event that Business Associate determines that returning or destroying the PHI is infeasible, Business Associate shall provide to Covered Entity notification of the conditions that make return or destruction infeasible. Upon documentation by Business Associate that return or destruction of PHI is infeasible, Business Associate shall extend the protections of this Section of the Contract to such PHI and limit further uses and disclosures of PHI to those purposes that make return or destruction infeasible, for as long as Business Associate maintains such PHI. Infeasibility of the return or destruction of PHI includes, but is not limited to, requirements under state or federal law that the Business Associate maintains or preserves the PHI or copies thereof.

(m) Miscellaneous Provisions.

(1) Regulatory References. A reference in this Section of the Contract to a section in the Privacy Rule means the section as in effect or as amended.

(2) Amendment. The Parties agree to take such action as in necessary to amend this Section of the Contract from time to time as is necessary for Covered Entity to comply with requirements of the Privacy Rule and the Health Insurance Portability and Accountability Act of 1996, Pub. L. No. 104-191.

(3) Survival. The respective rights and obligations of Business Associate shall survive the termination of this Contract.

(4) Effect on Contract. Except as specifically required to implement the purposes of this Section of the Contract, all other terms of the Contract shall remain in force and effect.

(5) Construction. This Section of the Contract shall be construed as broadly as necessary to implement and comply with the Privacy Standard. Any ambiguity in this Section of the Contract shall be resolved in favor of a meaning that complies, and is consistent with, the Privacy Standard.

(6) Disclaimer. Covered Entity makes no warranty or representation that compliance with this Section of the Contract will be adequate or satisfactory for Business Associate's own purposes. Covered Entity shall not be liable to Business Associate for any claim, civil or criminal penalty, loss or damage related to or arising from the unauthorized use or disclosure of PHI by Business Associate or any of its officers, directors, employees, contractors or agents, or any third party to whom Business Associate has disclosed PHI contrary to the provisions of this Contract or applicable law. Business Associate is solely responsible for all decisions made, and actions taken, by Business Associate regarding the safeguarding, use and disclosure of PHI within its possession, custody or control.

(7) Indemnification. The Business Associate shall indemnify and hold the Covered Entity harmless from and against any and all claims, liabilities, judgments, fines, assessments, penalties, awards and any statutory damages that may be imposed or assessed pursuant to HIPAA, as amended or the HITECH Act, including, without limitation, attorney's fees, expert witness fees, costs of investigation, litigation or dispute resolution, and costs awarded thereunder, relating to or arising out of any violation by the Business Associate and its agents, including subcontractors, of any obligation of Business Associate and its agents, including subcontractors, under this section of the contract, under HIPAA, the HITECH Act, the Privacy Rule and the Security Rule.

EXHIBIT D
AFFIRMATIVE ACTION POLICY STATEMENT (October 2023)

It is the policy of this firm to assure that applicants are employed, and that employees are treated during employment, without regard to an individual's race, color, religion, creed, sex, gender identity or expression, marital status, national origin, age, ancestry, status as a veteran, intellectual disability, mental disability, learning disability or physical disability, including but not limited to blindness, unless such disability prevents performance of the work involved and to promote the full realization of equal employment opportunity through positive and continuous affirmative efforts. Such action shall include employment, promotion, demotion or transfer, recruitment or recruitment advertising, layoff or terminations, rates of pay or other forms of compensation, selection for training/apprenticeship, pre-apprenticeship opportunities, and on-the-job training opportunities.

This firm will implement, monitor, enforce and achieve full compliance with this Affirmative Action Policy Statement in conjunction with the applicable Federal and State laws, regulations, executive orders, and contract provisions, including but not limited to those listed below:

Dissemination of Policy:
All members of the firm who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, this firm's Equal Employment Opportunity (EEO) policy and contractual responsibilities to provide EEO in each grade and classification of employment. These actions shall include:

1. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the firm's EEO policy and its implementation will be reviewed and explained. These meetings will be conducted by the EEO officer.
2. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
3. All personnel who are engaged in direct recruitment for the firm will be instructed by the EEO Officer of the contractor's procedures for locating and hiring minority group employees.
4. Notices and posters setting forth the firm's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
5. The firm's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
6. Sexual Harassment Prevention Resources including training and remedies must be available to all employees. See Connecticut General Assembly Public Acts 19–16 and 19–93.

Recruitment:
When advertising for employees, the firm will include in all advertisements the notation; "An Affirmative Action/Equal Opportunity Employer." All such advertisements will be placed in

publications having a large circulation among minority groups in the area where the workforce would normally be derived.

1. The firm will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority and female applicants. To meet this requirement, the firm will identify referral sources and establish procedures for recruitment to obtain the referral of minority and female applicants.
2. In the event the firm has a valid bargaining agreement providing for exclusive hiring referrals, he/she is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The United States Department of Labor has held that where implementation of such agreements has had the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)
3. The firm will encourage his/her present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

Personnel Actions:

Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to an individual's race, color, religion, creed, sex, gender identity or expression, marital status, national origin, age, ancestry, status as a veteran, intellectual disability, mental disability, learning disability or physical disability, including but not limited to blindness, unless such disability prevents performance of the work involved. The following procedures shall be followed:

1. The firm will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of personnel.
2. The firm will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take correction action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
3. The firm shall periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
4. The firm will promptly investigate all complaints of alleged discrimination made to the firm and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective actions shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

Training and Promotion:

The firm will assist in locating, qualifying, and increasing the skills of minorities and women. The firm will utilize the following tools to identify training and promotional opportunities in the firm:

1. The firm will advise employees and applicants for employment of available training programs and the entrance requirements.
2. The firm will periodically review the training and promotion of minority group and female employees and will encourage eligible employees to apply for such training and promotion.

Unions:

If the firm relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the firm either directly or through a contractor's association acting as agent will include the procedures set forth below:

1. The firm will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.
2. The firm will use best efforts to incorporate an EEO clause into each union agreement to the extent that such union will be contractually bound to refer applicants without regard to their to an individual's race, color, religion, creed, sex, gender identity or expression, marital status, national origin, age, ancestry, status as a veteran, intellectual disability, mental disability, learning disability or physical disability, including but not limited to blindness, unless such disability prevents performance of the work involved.
3. The firm is to obtain information as to the referral practices and policies of the labor union except that to the extent that such information is within the exclusive possession of the labor union and such labor union refuses to furnish the information to the contractor, the contractor shall notify the Connecticut Department of Transportation (CTDOT) of the efforts made to obtain the information.
4. In the event the union is unable to provide the firm with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies. (The United States Department of Labor has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations under Executive Order 11246 as amended, and in compliance with 23 CFR Part 230, the firm will notify CTDOT.

Selection of Subcontractors:

The firm will not discriminate on the grounds race, color, religion, sex, sexual orientation, gender identity or expression, marital status, national origin, ancestry, age, intellectual disability, learning disability, physical disability, including, but not limited to, blindness, or status as a veteran in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

1. The firm shall use his/her best efforts to ensure subcontractor/subconsultant compliance with Federal and State Equal Opportunity (EO) and EEO requirements.

Records and Reports:

The Contractor shall keep records as necessary to document compliance with EO/EEO requirements. Such reports shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of CTDOT and/or the United States Department of Transportation. The following records should be maintained:

6. The number of minority and non-minority group members and women employed in each work classification;
7. The progress and efforts being made in cooperation with unions, when applicable to increase the employment opportunities for minorities and women;
8. The documentation showing progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
9. Complaints of Discrimination.

In implementing this policy and ensuring that affirmative action is being provided, each time a hiring opportunity occurs this firm will contact and request referrals from minority and female organizations, referral sources, and media sources. All advertising will emphasize that the firm is "An Affirmative Action/Equal Opportunity Employer."

In order to substantiate this firm's efforts and affirmative actions to provide equal opportunity, the firm will maintain and submit, as requested, documentation such as referral request correspondence, copies of advertisements utilized and follow-up documentation to substantiate that efforts were made in good faith. This firm will maintain the necessary internal audit procedures and record keeping systems to report the firm's affirmative action efforts.

It is understood by Owner/CEO/President of the firm and the firm's Equal Employment Opportunity Officer and supervisory and managerial personnel that failure to effectively implement, monitor and enforce this firm's affirmative action program and/or failure to adequately document and submit as required, the affirmative actions taken and efforts made to recruit and hire minority and female applicants in accordance with our affirmative action program in each instance of hire, will result in this firm being required to recommit itself to a modified and more stringent affirmative action program as a condition of approval. It is recognized that this policy is a contractual requirement and is a prerequisite for performing services for the contracting agency. This policy in addition to CTDOT's EO/EEO contract provisions and requirements, shall constitute the CTDOT Affirmative Program requirements.

The ultimate responsibility for the full implementation of this firm's Affirmative Action Program rests with the Chief Executive Officer of this firm.

EXHIBIT E

(Federal wage rate package will be inserted at the end after State wages for the final executed contract only. Refer to NTC – Federal Wage Determinations)

EXHIBIT F
State Wages and Other Related Information

Please refer to the Department of Labor website for the latest updates, annual adjusted wage rate increases, certified payroll forms and applicable statutes.
http://www.ctdol.state.ct.us/wgwkstnd/prevailwage.htm

Prevailing Wage Law Poster Language

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.

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 non-compliance;

(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 CONCERNIG 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.

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):_____

Information Bulletin
Occupational Classifications

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

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

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

ASBESTOS WORKERS

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

ASBESTOS INSULATOR

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

BOILERMAKERS

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

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

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

CARPENTERS, MILLWRIGHTS, PILEDRIVERMEN, LATHERS, RESILEINT FLOOR LAYERS, DOCK BUILDERS, DIKERS, DIVER TENDERS

Constructs, erects, installs and repairs structures and fixtures of wood, plywood and wallboard. Installs, assembles, dismantles, moves industrial machinery. Drives piling into ground to provide foundations for structures such as buildings and bridges, retaining walls for earth embankments, such as cofferdams. Fastens wooden, metal or rockboard lath to walls, ceilings and partitions of buildings, acoustical tile layer, concrete form builder. Applies firestopping materials on fire resistive joint systems only. Installation of curtain/window walls only where attached to wood or metal studs. Installation of insulated material of all types whether blown, nailed or attached in

other ways to walls, ceilings and floors of buildings. Assembly and installation of modular furniture/furniture systems. Free-standing furniture is not covered. This includes free standing: student chairs, study top desks, book box desks, computer furniture, dictionary stand, atlas stand, wood shelving, two-position information access station, file cabinets, storage cabinets, tables, etc.

LABORER, CLEANING

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

DELIVERY PERSONNEL

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

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

ELECTRICIANS

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

ELEVATOR CONSTRUCTORS

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

FORKLIFT OPERATOR

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

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

GLAZIERS

Glazing wood and metal sash, doors, partitions, and 2 story aluminum storefronts. Installs glass windows, skylights, store fronts and display cases or surfaces such as building fronts, interior

walls, ceilings and table tops and metal store fronts. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers, which require equal composite workforce.

IRONWORKERS

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

INSULATOR

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

LABORERS

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

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

PAINTERS

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

LEAD PAINT REMOVAL

• Painter’s Rate 1. Removal of lead paint from bridges. 2. Removal of lead paint as preparation of any surface to be repainted. 3. Where removal is on a Demolition project prior to reconstruction. • Laborer’s Rate 1. Removal of lead paint from any surface NOT to be repainted. 2. Where removal is on a TOTAL Demolition project only.

PLUMBERS AND PIPEFITTERS

Installation, repair, replacement, alteration or maintenance of all plumbing, heating, cooling and piping. ***License required per Connecticut General Statutes: P-1,2,6,7,8,9 J1,2,3,4 SP-1,2 S-**

1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4.

POWER EQUIPMENT OPERATORS

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

ROOFERS

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

SHEETMETAL WORKERS

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

SPRINKLER FITTERS

Installation, alteration, maintenance and repair of fire protection sprinkler systems. ***License required per Connecticut General Statutes: F-1, 2, 3, 4.**

TILE MARBLE AND TERRAZZO FINISHERS

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

TRUCK DRIVERS

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

Truck Drivers are required to be paid prevailing wage for time spent "working" directly on the site. These drivers remain covered by the prevailing wage for any time spent transporting between the

actual construction location and facilities (such as fabrication, plants, mobile factories, batch plant, borrow pits, job headquarters, tool yards, etc.) dedicated exclusively, or nearly so, to performance of the contract or project, which are so located in proximity to the actual construction location that it is reasonable to include them. ***License required, drivers only, per Connecticut General Statutes**.

For example:

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

 Any questions regarding the proper classification should be directed to:

Public Contract Compliance Unit
Wage and Workplace Standards Division
Connecticut Department of Labor
200 Folly Brook Blvd, Wethersfield, CT 06109
(860) 263-6543.

Connecticut Department of Labor
Wage and Workplace Standards Division
FOOTNOTES

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

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

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

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

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

Elevator Constructors: Mechanics

a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day, plus the Friday after Thanksgiving.

b. Vacation: Employer contributes 8% of basic hourly rate for 5 years or more of service or 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

Glaziers

a. Paid Holidays: Labor Day and Christmas Day.

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

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

Ironworkers

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

Laborers (Tunnel Construction)

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

Roofers

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

Sprinkler Fitters

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

Truck Drivers
(Heavy and Highway Construction & Building Construction)

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

Rev. 7/1/19

SEE BELOW FOR STATE WAGE RATES

EXHIBIT E

INSERT FEDERAL WAGES HERE
EXHIBIT F

Minimum Rates and Classifications for
Heavy/Highway Construction

ID#: 25-11186

Connecticut Department of Labor
Wage and Workplace Standards Division

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

Project Number:
Project Town: Southington
State#: 0131-0211
FAP#: 1131(107)
Project: Southington Rest Area: Truck Parking Improvements

CLASSIFICATION	Hourly Rate	Benefits
1) Boilermaker	48.21	30.01
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	43.14	34.74
2) Carpenters, Piledrivermen	42.03	29.19
2a) Diver Tenders	42.03	29.19
2b) Divers Effluent	67.52	29.19
3) Divers	50.49	29.19
03a) Millwrights	43.25	29.13
03b) Carpenter-Welder	42.53	29.19
03c) Carpenter: Working with creosote lumber or acid	43.03	29.19

As of: October 30, 2025

4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	59.7	26.65
4a) Painters: Brush and Roller	39.57	26.50
4b) Painters: Spray	42.57	26.50
4bc) Painters: Spray Helper	40.57	26.50
4c) Painters: Steel Only	41.57	26.50
4d) Painters: Blast	44.57	26.50
4de) Painter: Blast Helper	40.57	26.50
4e) Painters: Tanks, Tower and Swingstage etc.	41.57	26.50
4f) Elevated Tanks (60 feet and above)	48.57	26.50
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)	46.4	36.66+3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	45.25	43.62 + 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)	50.58	36.30
----LABORERS---- -		
8) Group 1: General Laborers and concrete specialist	35.7	28.85

As of: October 30, 2025

8) Group 1a: Acetylene Burners (Hours worked with a torch)	36.7	28.85
9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	35.95	28.85
10) Group 3: Pipelayers	36.2	28.85
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	36.2	28.85
12) Group 5: Toxic waste removal (non-mechanical systems)	37.7	28.85
13) Group 6: Blasters	37.45	28.85
Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	38.7	28.85
Group 8: Traffic control signalmen	21.42	28.85
Group 9: Hydraulic Drills	36.45	28.85
Group 10: Toxic Waste Removers A or B With PPE	38.7	28.85
----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	37.93	28.85 + a
13b) Brakemen, Trackmen, Miners' Helpers and all other men	36.96	28.85 + a

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----CLEANING, CONCRETE AND CAULKING TUNNEL----		
14) Concrete Workers, Form Movers, and Strippers	36.96	28.85 + a
15) Form Erectors	37.29	28.85 + a
----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:----		
16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers, Miners Helpers	36.96	28.85 + a
17) Laborers Topside, Cage Tenders, Bellman	36.85	28.85 + a
18) Miners	37.93	28.85 + a
----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----		
18a) Blaster	44.42	28.85 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	44.22	28.85 + a
20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	42.24	28.85 + a
21) Mucking Machine Operator, Grout Boss, Track Boss	45.01	28.85 + a
----TRUCK DRIVERS----(*see note below)		
Block Truck	37.48	32.68 + a

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2 Axle	36.16	32.68 + a
Helpers	34.66	32.68 + a
Three Axle Trucks; Two Axle Mixer	36.27	32.68 + a
Three Axle Mixer	36.33	32.68 + a
Four Axle Trucks	36.39	32.68 + a
Four Axle Mixer	37.19	32.68 + a
5 Axle	36.39	32.68 + a
5 Axle Mixer	37.19	32.68 + a
Heavy Duty Trailer (40 tons and over)	38.66	32.68 + a
Heavy Duty Trailer (up to 40 tons)	37.39	32.68 + a
Snorkle Truck	36.54	32.68 + a
Swivel Dump and Tack Truck	36.39	32.68 + a
Euclids and Semi Trailer	36.44	32.68 + a

----POWER EQUIPMENT OPERATORS----

Group 1: Crane Handling or Erecting Structural Steel or Stone, Hoisting Engineer (2 drums or over). (Trade License Required)	58.19	29.80 + a
Group 1a: Front End Loader (7 cubic yards or over); Work Boat 26 ft. and over.	53.33	29.80 + a
Group 2: Cranes (100 ton rate capacity and over); Bauer Drill/Caisson. (Trade License Required)	57.78	29.80 + a
Group 2a: Cranes (under 100 ton rated capacity).	56.79	29.80 + a
Group 2b: Excavator over 2 cubic yards; Pile Driver ($3.00 premium when operator controls hammer).	52.92	29.80 + a
Group 3: Excavator; 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)	51.92	29.80 + a
Group 4: Trenching Machines; Lighter Derrick; CMI Machine or Similar; Koehring Loader (Skooper).	51.42	29.80 + 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)	50.63	29.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	50.63	29.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	50.22	29.80 + 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)	49.77	29.80 + a

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Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	49.25	29.80 + 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), Vacuum Excavation Truck and Hydrovac Excavation Truck (27 HG pressure or greater).	48.67	29.80 + a
Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	45.96	29.80 + a
Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	45.96	29.80 + a
Group 12: Wellpoint Operator.	45.87	29.80 + a
Group 13: Compressor Battery Operator.	45.12	29.80 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	43.6	29.80 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	43.06	29.80 + a
Group 16: Maintenance Engineer.	42.2	29.80 + a
Group 17: Portable Asphalt Plant Operator; Portable Crusher Plant Operator; Portable Concrete Plant Operator., Portable Grout Plant Operator, Portable Water Filtration Plant Operator.	47.91	29.80 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	44.7	29.80 + a
Surveyor: Chief of Party	48.16	29.80 + a
Surveyor: Assistant Chief of Party	44.41	29.80 + a

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Surveyor: Instrument Man	42.73	29.80 + a
Surveyor: Rodman or Chairman	36.78	29.80 + a

**NOTE: SEE BELOW

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

20) Lineman, Cable Splicer, Technician	59.91	34.00
21) Heavy Equipment Operator	53.92	31.88
22) Equipment Operator, Tractor Trailer Driver, Material Men	50.92	30.84
23) Driver Groundmen	44.93	28.47
23a) Groundman Experienced	32.95	13.99

----OUTSIDE LINE CONSTRUCTION----

24) Driver Groundmen	43.78	28.42
25) Groundmen	32.1	13.95
26) Heavy Equipment Operators	52.53	31.83
27) Linemen, Cable Splicers, Dynamite Men	58.37	33.94

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28) Material Men, Tractor Trailer Drivers, Equipment Operators	49.61	30.79
29) Technician	56.12	32.85
----COMMUNICATION----		
Sales & Service Technician: To include but not limited to: Installation, Repair, Splicing and Maintenance	48.84	18.07
----DREDGING----		
Class A1: Mechanical Dredge Operator	48.48	17.32+a+b
Class B1: Maintenance Engineer	41.93	16.87+a+b
Class C1: Mate/Welder	38.38	16.62+a+b
Class D: Deckhand	30.86	16.09+a+b

Welders: Rate for craft to which welding is incidental.
Surveyors: Hazardous material removal: $3.00 per hour premium.
*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.
Truck Drivers: Trainers Premium: $3.00 over wage rate.
Truck Drivers: Night Premium - Mixer Drivers: $2.00 over wage rate.

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

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

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.

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