



DEPARTMENT OF
ENGINEERING

CITY OF NORWALK
Department of Engineering
125 East Avenue
Norwalk, CT 06851
www.norwalkct.gov

PUBLIC WORKS COMMITTEE of the COMMON COUNCIL

DATE: Tuesday, June 4, 2024

TIME: 7:00 P.M.

PLACE: By Video Conference and Teleconference

To allow public access, anyone may access a meeting by telephone and/or Zoom, or a recording in the City of Norwalk YouTube channel. Specific instructions and links can be found at norwalkct.gov/meetings

-  Members of the public may call in to participate. Callers will not be able to see the meeting participants. All participants will be muted upon entering the meeting. To speak, dial *9 on the phone and you will be called on by the host of the meeting during the public comment section. All speakers must state their name and address. Comments must be on a topic on the agenda and are limited to three minutes. Anyone disrupting the orderly conduct of the meeting, including by using threatening, hateful, or sexually explicit language, will be removed. Please find the information using the link above.
-  Members of the public who wish to provide "live comments" may also use the Zoom meeting platform. All participants will be muted upon entering the meeting. To speak, click the "raise your hand indicator" and you will be called by the host of the meeting during the public comment section. All speakers must state their name and address. Comments must be on a topic on the agenda and are limited to three minutes. Anyone disrupting the orderly conduct of the meeting, including by using threatening, hateful, or sexually explicit language, will be removed. Please find the information using the link above.
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-  Members of the public who wish to provide public comments are encouraged to submit those via email in advance of the meeting. For these comments to be included into the record, they must be submitted by 12:00 p.m. the day of the meeting. Please email Monique Cipriano at mcipriano@norwalkct.gov with the subject line "Public Comment" to provide written public comment prior to the meeting.

AGENDA

Roll Call

Public Input

Public input (Guests at Committee meetings may speak to any item on the agenda. Comments shall be limited to no more than three (3) minutes per speaker.)

New Business

1. Approve the Minutes of the Public Works Committee Meeting of Tuesday, May 7, 2024.
- 2a. Authorize the Mayor to execute any and all documents necessary to accept a .0122-acre storm water drainage easement over 7-9 Glenwood Avenue, Norwalk from Glenwood Avenue LLC.

- 2b. 8-24 Referral to Planning for Review and Report: Acceptance of a .0122-acre storm water drainage easement over 7-9 Glenwood Avenue, Norwalk from Glenwood Avenue LLC.
- 3a. Authorize the Mayor Harry W. Rilling, to execute an Agreement between the City of Norwalk and The Grasso Companies, LLC for Project RD2024-3 Curbs and Sidewalks for Beacon Street for a sum not to exceed \$1,070,580.00.

Account No. 03 00 00 2602
09 23 7100 5777 C0583
09 24 4021 5777 C0318
09 25 4021 5777 C0318
09 24 4021 5777 C0021
09 25 4021 5777 C0021
09 21 4021 5777 C0440
09 22 4021 5777 C0440
09 24 4021 5777 C0440
09 25 4021 5777 C0440

- 3b. Authorize the Chief of Operations and Public Works, to execute orders on the contract between the City of Norwalk and The Grasso Companies, LLC, for Project RD2024-3 Curbs and Sidewalks for Beacon Street for a sum not to exceed \$107,058.00.

Account No. 03 00 00 2602
09 23 7100 5777 C0583
09 24 4021 5777 C0318
09 25 4021 5777 C0318
09 24 4021 5777 C0021
09 25 4021 5777 C0021
09 21 4021 5777 C0440
09 22 4021 5777 C0440
09 24 4021 5777 C0440
09 25 4021 5777 C0440

- 4a. Authorize the Mayor Harry W. Rilling to execute an extension for a 1 (One) year agreement with Rocco Iadarola General Contracting Company for Project TMP2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections for an amount not to exceed \$150,000.00.

Account No. 09 23 4120 5777 C0441
09 24 3750 5777 C0441
09 23 4120 5777 C0581
09 24 3750 5777 C0581
09 24 3750 5777 C0649
09 24 3750 5777 C0777
09 23 4120 5777 C0824
09 24 3750 5777 C0824

- 4b. Authorize the Director of Transportation, Mobility and Parking, to execute an extension for a 1 (One) year Orders on Contract with Rocco Iadarola General Contracting Company for Project TMP2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections for an amount not to exceed \$15,000.00.

Account No. 09 23 4120 5777 C0441
09 24 3750 5777 C0441
09 23 4120 5777 C0581
09 24 3750 5777 C0581
09 24 3750 5777 C0649
09 24 3750 5777 C0777
09 23 4120 5777 C0824
09 24 3750 5777 C0824

- 5a. Authorize the Mayor Harry W. Rilling to execute an Agreement with Burns Construction Company, for Project TMP2024-05 Tracey Magnet Elementary School Multipurpose Driveway/Trail, for an amount not to exceed \$396,940.90.

Account No. 09 24 3750 5777 C0677
09 23 4120 5777 C0441

- 5b. Authorize the Director of Transportation, Mobility and Parking to execute Orders on Contract with Burns Construction Company, for Project TMP2024-05 Tracey Magnet Elementary School Multipurpose Driveway/Trail, for a contingency amount not to exceed \$39,694.09.

Account No. 09 24 3750 5777 C0677
09 23 4120 5777 C0441

6. Authorize the Mayor Harry W. Rilling, to sign the Stormwater Management Plan, prepared by CDM Smith, to certify the submitted information is true and accurate, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes.
7. Authorize the Mayor, Harry W. Rilling to execute a Sixth Amendment to the Woodard & Curran Agreement dated August 12, 2019, to provide Professional Engineering Services for flood remediation at specific locations in accordance with Professional Services Task Order 24-1 dated May 21, 2024, for a sum not to exceed \$166,000.00.

Account No. 13 4010 5796 APW02
13 4010 5796 APW03
09 21 4021 5777 C0440

8. Authorize the Purchasing Agent to authorize a Sole Source purchase order to Tesla Inc. for the purchase of four (4) Tesla - model Y cars for a sum not to exceed \$200,520.

Account No. 09 24 4031 5777 C0313
09 25 4031 5777 C0313
09 25 4031 5777 C0716
09 24 4062 5777 C0361

9. Authorize the Mayor Harry W. Rilling, to execute a First Amendment between the City of Norwalk and Tighe & Bond, Inc. for Project DPW2024-2 On-Call Construction Inspection Observations Services for an amount not to exceed \$466,000.00 billable on an hourly basis.

Account No. 09 24 4021 5799 C0689

- 10a. Authorize the Mayor Harry W. Rilling, to execute an Agreement with B&W Paving & Landscaping LLC. for Purchasing Project 4366, BLDG2024-1 Paving of Ben Franklin, Kendall Elementary School, and Rowayton Elementary School Facility Parking Lot (Base Bid) and Paving of DPW Operations Facility Parking Lot (Alternate 1) for a sum not to exceed \$336,640.00 (Base Bid) plus \$80,650.10 (Alternate 1).

Account No. 09 16 5010 5777 C0516
09 19 5010 5777 C0516
09 20 5010 5777 C0516
09 22 5010 5777 C0516
09 24 5010 5777 C0516
09 24 7100 5777 C0295
09 25 7100 5777 C0119

- 10b. Authorize the Chief of Operations and Public Works to execute Orders on Contract with B&W Paving & Landscaping LLC. for Purchasing Project 4366, BLDG2024-1 Paving of Ben Franklin, Kendall Elementary School, and Rowayton Elementary School Facility Parking Lot (Base Bid) and Paving of DPW Operations Facility Parking Lot (Alternate 1) for a sum not to exceed \$41,729.01.

Account No. 09 16 5010 5777 C0516
09 19 5010 5777 C0516
09 20 5010 5777 C0516
09 22 5010 5777 C0516
09 24 5010 5777 C0516
09 24 7100 5777 C0295
09 25 7100 5777 C0119

- 11a. Authorize the Mayor Harry W. Rilling, to execute an Agreement with The Grasso Companies LLC. for Purchasing Project 4367, PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2) for a sum not to exceed \$710,650.50 (Base Bid) plus \$383,700.00 (Alternate 2).

Account No. 09 22 4021 5777 C0021
09 23 4021 5777 C0021
09 24 4021 5777 C0021
09 25 4021 5777 C0021
09 21 4021 5777 C0440
09 22 4021 5777 C0440
09 24 4021 5777 C0440

- 11b. Authorize the Chief of Operations and Public Works to execute Orders on Contract with The Grasso Companies LLC. for Purchasing Project 4367, PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2) for a sum not to exceed \$218,870.10.

Account No. 09 22 4021 5777 C0021
09 23 4021 5777 C0021

09 24 4021 5777 C0021
09 25 4021 5777 C0021
09 21 4021 5777 C0440
09 22 4021 5777 C0440
09 24 4021 5777 C0440

Information / Discussion

- A. RFP - Residential Solid Waste and Recycling Collection Services and Transfer Station Operations
- B. Tree Operations and Programming – April 2024
- C. Monthly Solid Waste Report – April 2024
- D. Food Scrap Drop-Off Report – April 2024
- E. Current / Upcoming Projects Status
 - 1. Construction
 - DRG2019-1 Dreamy Hollow Storm Drainage Improvements
 - RA2022-2 467 West Avenue Utility Infrastructure Upgrade
 - RA2023-1 South Norwalk Equitable TOD Infrastructure Improvements
 - RD2024-1 Curb and Sidewalk for Berkeley Street Area
 - DRG2022-1 Lockwood Lane and Heather Lane Storm Drainage
 - PM2024-2 Permanent Roadway Repairs & Surface Restoration
 - RD2024-2 Curb and Sidewalk for Various Locations
 - RA2024-1 Remediation of Contaminated Soil at 30 Monroe Street
 - 2. Advertised for Bids / Pending Contract
 - RD2024-3 Curb and Sidewalk for Beacon Street Area
 - BLDG2024-1 Paving of Ben Franklin, Kendall and Rowayton School
 - PM2024-3 Crack Sealing at Various Locations
 - Residential Solid Waste and Recycling Collection Services and Transfer Station Operations
 - 3. Design
 - Project 102-366 West Cedar Street Over Five Mile River
 - Storm Drainage Evaluation at Selected Locations
 - RNP2022-1 Veterans Park Visitor Dock Replacement
 - RD2023-2 Undergrounding of Elizabeth Street Overhead Utilities
 - BR2023-1 Bridge Preservation Projects at Various Locations

Adjournment:

Next Meeting:

Tuesday, July 2, 2024
Public Works Committee
7:00 P.M. Location TBD



DEPARTMENT OF
ENGINEERING

CITY OF NORWALK
Department of Engineering
125 East Avenue
Norwalk, CT 06851
www.norwalkct.gov

**CITY OF NORWALK
PUBLIC WORKS COMMITTEE
MAY 7, 2024**

ATTENDANCE: James Frayer, Chairman; Darlene Young; Barbara Smyth; Melissa Murray; DaJuan Wiggins; Nora Niedzielski-Eichner (7:02pm); Heather Dunn (7:03pm)

STAFF: James Meehan, Principal Engineer; Chris Torre, Superintendent of Operations; Paul Sotnik, Senior Civil Engineer

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Chairman Frayer called the meeting to order at 7:00p.m.

ROLL CALL

Chairman Frayer called the Roll: James Frayer, Barbara Smyth, Heather Dunn, Darlene Young
Nora Niedzielski-Eichner, Melissa Murray, DaJuan Wiggins

At Roll Call there were five (5) Committee members present constituting a quorum. Nora Niedzielski-Eichner (7:03pm) and Heather Dunn (7:01pm) arrived just after roll call.

PUBLIC INPUT

PUBLIC INPUT (GUESTS AT COMMITTEE MEETINGS MAY SPEAK TO ANY ITEM ON THE AGENDA. COMMENTS SHALL BE LIMITED TO NO MORE THAN THREE (3) MINUTES PER SPEAKER.)

Diane Lauricella of 21 Little Fox Lane. She thanked the DPW Staff for helping with Earth Day and having a table with educational materials. She also had a table with educational materials and stated she would write up what she discovered from speaking with people. She wanted to inform the committee that there are two (2) different bills in the legislature, especially Senate Bill 191. It hasn't

gone to the Senate yet but it was supposed to be a major food scrap donation, recovery, and composting bill. She said over the months it had whittled down. She explained the plan to the committee. She urged the committee and staff to incorporate more green infrastructure into the construction, design, and storm drainage approaches. She named a few projects in Norwalk and asked that they try to do more. She stated there will be a walk and a public hearing regarding the undergrounding of utilities on Elizabeth Street and urged them to attend.

Chairmen Frayer closed public input at 7:07p.m.

NEW BUSINESS

1. APPROVE THE MINUTES OF THE PUBLIC WORKS COMMITTEE MEETING OF TUESDAY, APRIL 2, 2024.

There was no report on this item.

****CHAIRMAN FRAYER MOVED THE ITEM**

****MR. WIGGINS ABSTAINED**

****MOTION PASSED WITH ONE (1) ABSTANTION**

2. AUTHORIZE THE MAYOR, HARRY W. RILLING TO EXECUTE THE FIRST SUPPLEMENTAL PROJECT AUTHORIZATION LETTER FOR STATE PROJECT NO. 102-295, I-95 MEDIAN RECONSTRUCTION AND RESURFACING, FOR THE CITY OF NORWALK'S REMAINING DEMAND DEPOSIT FOR THE CONSTRUCTION OF THE YANKEE DOODLE TRAIL IN THE AMOUNT OF \$186,452, IN ACCORDANCE WITH THE MASTER MUNICIPAL AGREEMENT FOR CONSTRUCTION PROJECTS BETWEEN THE CITY OF NORWALK AND THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION.

**ACCOUNT NO. 09 23 4021 5777 C0816
 09 23 4021 5777 C0818**

Mr. Meehan reported on this. He stated that this is part of the State of Connecticut DOT I95 Median Project. He said they asked the State to include the radiation of the Yankee Doodle Trail. They estimated a demand deposit and the bids returned higher than expected. This was done through the Redevelopment Agency and was no cost associated to DPW authorizations. They are doing this through the grant match program. They will incur the costs for this and will not get reimbursed. The city is working alongside the state to get this done. A discussion ensued about cost benefit to the city. It was stated that things are already being taken care of in this project such as mobilization which benefits the city.

Mr. Sotnik explained how the projects connects and part of the process began with DOT's resources. He spoke about the Yankee Doodle Bridge and the State working under it, where the Yankee Doodle Trail was construction along with the I95 Median project also going through that area. In addition to that cost benefit, it was beneficial to have the contractor do the work while DOT was there instead of having different contractors trying to work in the same place at the same time. Each one with their own mobilization. This project will eventually be part of the Harbor Loop Trail.

****MS. SMYTH MOVED THE ITEM**
****MOTION PASSED UNANIMOUSLY**

- 3. AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE A NO-COST FIRST AMENDMENT TO THE JUNE 13, 2023, AGREEMENT BETWEEN THE CITY OF NORWALK AND IRECYCLE INC DBA EYERECYCLE, LLC. FOR COLLECTION AND RECYCLING OF GLASS BOTTLES AND CANS VIA POPUP EVENTS IN THE CITY OF NORWALK.**

Mr. Torre reported on this. He stated the schedule for Eyerecycle is in the packet from now through the summer. He gave a summary of the progress. Stated April was the most successful month. This contract is a no fee contract. Eyerecycle has a new owner, name stayed the same.

Ms. Smyth commented that when they approved the item, it was stated that they would be mindful of the recycling events put on by the schools for fundraising. She said there have been some complaints recently from parents concerned Eyerecycle will hurt some of their recycling events for the schools. She said that the events are located at 98 South Main Street and mostly cater to those that do not have a car and it is easier for them to drop off. She continued saying these events are not meant to compete against other events but to help those who can't get there.

Mr. Torre made suggestions on how to inform residents of school recycling events when they have their pop-up events.

Ms. Niedzielski-Eichner asked if there is an advantage to going to the pop-up events rather than putting them curbside.

Mr. Torre answered, going to the pop-up events a person is paid for a bag of recycled bottles. If you put those same bottles curbside, it costs the city money to recycle, and the resident wouldn't get paid either. The more the residents use these pop-up events, the less cost to the city. Eyerecycle used to pay \$10 per bag and now it is \$20 per bag. A discussion ensued about combining efforts with the Board of Education.

****MS. YOUNG MOVED THE ITEM**
****MOTION PASSED UNANIMOUSLY**

INFORMATION / DISCUSSION

A. TREE OPERATIONS AND PROGRAMMING – MARCH 2024

Mr. Torre said they removed 5 trees and safety pruned 28 trees. He said there was a wind and rain event on March 11, 2024, most of the trees that came down were private trees. They cleaned up the area and took what was in the city's right of way.

Mr. Sotnik added that they are in the planting cycle right now. There were 75 to 80 trees planted with 150 more to go. They are rapidly planting trees.

Ms. Niedzielski-Eichner complimented the Public Works Crew with the clean-up at the high wind/rain event. She put a tree down and then put in a request and the tree was picked up within the hour. She said she was super impressed and thanked the team again.

Chairman Frayed also thanked the team for great work. He congratulated Thomas Szabo on his composting numbers. The numbers are astounding.

Mr. Torre stated that Mr. Szabo is looking into the future with sustainability and moving forward to a greener future.

B. MONTHLY SOLID WASTE REPORT – MARCH 2024

Mr. Torre reported on this. MSW is the same. Recycling is down a little probably due to no longer collecting on private property such as condos.

C. FOOD SCRAP DROP-OFF REPORT – MARCH 2024

Mr. Torre reported on this. They are two (2) tons over their three (3) years of food composting. All the sites are doing well. This is Food Composting Awareness Week, May 5, 2024 through May 11, 2024.

D. CURRENT / UPCOMING PROJECTS STATUS

1. CONSTRUCTION

- DRG2019-1 DREAMY HOLLOW STORM DRAINAGE IMPROVEMENTS
- RA2022-2 467 WEST AVENUE UTILITY INFRASTRUCTURE UPGRADE
- RA2023-1 SOUTH NORWALK EQUITABLE TOD INFRASTRUCTURE IMPROVEMENTS

2. ADVERTISED FOR BIDS / PENDING CONTRACT

- DRG2022-1 LOCKWOOD LANE AND HEATHER LANE STORM DRAINAGE
- PM2024-2 PERMANENT ROADWAY REPAIRS & SURFACE RESTORATION
- RD2024-1 CURB AND SIDEWALK FOR BERKELEY STREET AREA
- RD2024-3 CURB AND SIDEWALK FOR BEACON STREET AREA
- RD2024-2 CURB AND SIDEWALK FOR VARIOUS LOCATIONS
- RA2024-1 REMEDIATION OF CONTAMINATED SOIL AT 30 MONROE STREET

3. DESIGN

- PROJECT 102-366 WEST CEDAR STREET OVER FIVE MILE RIVER
- STORM DRAINAGE EVALUATION AT SELECTED LOCATIONS
- RNP2022-1 VETERANS PARK VISITOR DOCK REPLACEMENT
- RD2023-2 UNDERGROUNDING OF ELIZABETH STREET OVERHEAD UTILITIES
- BR2023-1 BRIDGE PRESERVATION PROJECTS AT VARIOUS LOCATIONS

Mr. Meehan reported on the status. He said some of the projects under advertised for bids or pending will begin construction shortly.

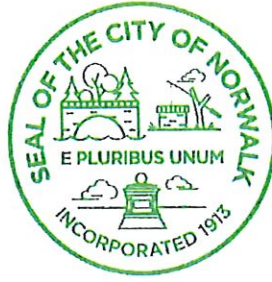
Mr. Sotnik said that the 30 Monroe Street Project #RA2024-1 is a brownfields project advanced clean-up for work that has been done for the Redevelopment Agency. He gave a brief description of the project.

Mr. Meehan stated the I95 Bridge fire is a DOT project. The Public Works role with the clean-up on I95 was having the operations crews assist with the maintenance of traffic. They had to ensure that the roads, now closed, at the top of the bridge on both sides, were maintained and would coordinate with police, if need be. VMS signs are being sent out by the Operations Crews in the next day or two (2). The engineering department suspended all roadway activity or roadway construction projects during the shutdown of I95 to alleviate traffic and not cause potential problems. Lending support to DOT whenever needed.

Mr. Torre added they dropped off a loaded truck of barrels to the DOT workers. He gave credit to all the DOT workers for doing a great job with the clean-up.

ADJOURNMENT: Ms. Murray moved to adjourn.
Motion passed unanimously.
The meeting was adjourned at 7:33p.m.

NEXT MEETING: **TUESDAY, JUNE 4, 2024**
PUBLIC WORKS COMMITTEE
7:00 P.M. LOCATION TBD



Contract Staff Summary

Department/Staff Contact	Public Works / Engineering Vanessa Valadares x47902
Common Council Committee	Public Works Committee
Date Approved by Committee	June 4, 2024
Purpose/Scope	To Accept a .0122-acre storm water drainage easement over 7-9 Glenwood Avenue
Vendor (Indicate if new or existing vendor)	Glenwood Avenue LLC.
Term of Contract	n/a
Method of Procurement (Indicate if sole source)	n/a
Cost of Contract	n/a
Funding Source/Account Number	n/a
Additional Information/Other Details	8-24 Referral to Planning for Review and Report: Acceptance of a .0122 acre storm water drainage easement over 7-9 Glenwood Avenue, Norwalk from Glenwood Avenue LLC.



CITY OF NORWALK
DPW Permits
Norwalk City Hall
125 East Avenue, PO Box 5125
Norwalk, CT 06851-5125
P: 203-854-4161 / F: 203-857-0143
E: DPWpermits@norwalkct.org

March 14, 2023

Sent via email to: politobuilt@gmail.com

Joseph Polito
Glenwood Avenue LLC

RE: 7 Glenwood Avenue (District 5, Block 65, Lot 75A)
9 Glenwood Avenue (District 5, Block 65, Lot 76)
Proposed Three (3) Multi-Unit Residential
DPW Plan Review Sign-Off Letter

Mr. Polito:

The Department of Public Works (DPW) for the City of Norwalk (City) has reviewed the supportive documents associated with the proposed development at the above-referenced property. The focus of DPW's review has been to confirm the documents provided are in compliance with the current City Drainage Manual, Roadway Standards, Standard Detail Drawings, and other applicable design standards.

The following document(s) were provided to DPW and included in our review:

- Civil Drawings dated 09/15/2021 and last revised 02/28/2023, prepared by Grumman Engineering, L.L.C.
- Drainage Report dated 04/05/2021 and last revised 02/28/2022, prepared by Grumman Engineering, L.L.C.
- Operation and Maintenance Plan Report dated 04/05/2021 and last revised 12/29/2021, prepared by Grumman Engineering, L.L.C.
- Zoning Map of Property dated 01/11/2021 and last revised 01/06/2022, prepared by Dennis A Dellus Land Surveyors

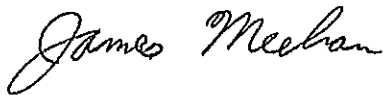
The aforementioned documents are in compliance with the current City Standards and Drainage Manual. DPW has no objection to the project moving forward with the following condition(s):

1. A storm drainage easement for access and maintenance shall be granted by the Property Owner to the City for the City's drainage infrastructure situated on private property. The easement shall be approved by the Common Council prior to the issuance of the Final Certificate of Occupancy.
2. The proposed property consolidation shall be approved by Planning and Zoning and recorded on the Land Records in the Office of Town Clerk. DPW shall review and approve of the proposed property addresses.

3. A DPW Encroachment, Driveway, and Sewer Permit, in conformance with DPW's Permit Provisions, shall be required for work in the City's Right-of-Way (ROW) prior to the commencement of the work. Road restoration requirements shall be determined at the time of permitting.
4. A Building Permit shall be required for sewer work performed within the property.
5. Any existing trees that are to be removed within the City ROW that are 8 inches or greater in caliper, will require a tree removal permit and must be posted by the City's Tree Warden at least 10 days in advance, in accordance with the City Code Chapter 112.
 - a. City trees to be removed shall be replaced in accordance with City Code Chapter 112-10C.
6. The following departmental approvals shall be required:
 - a. Water Pollution Control Authority (WPCA)
 - b. Transportation, Mobility and Parking (TMP)
 - c. Planning and Zoning (P&Z)
 - d. Building and Code Enforcement
7. A set of as-built plans shall be submitted along with a certificate from a professional engineer stating that the construction has been built according to City standards, prior to the issuance of a Certificate of Occupancy/Compliance.
8. This approval shall be valid for a period of 12 months from the date stamped on the approved plan. Any permit issued on the basis of this approval must be issued within such 12 month period. Any renewal of the plan approval will be based on the then existing conditions and current applicable regulations, ordinances and standards of practice in effect at the time of the renewal;

Should you have any questions, please do not hesitate to contact me.

Sincerely,



James Meehan, P.E.
Principal Engineer

Cc: DPW Permits
Vanessa Valadares, P.E. – Chief of Operations and Public Works
Wilber Glron, P.E. – Permit Engineer – Department of Public Works
Christine Cardascia, E.I.T. – Junior Engineer – Department of Public Works
Ralph Kolb, P.E. – Sr. Environmental Engineer – Water Pollution Control Authority
Garrett Bolella, P.E. – Assistant Director – Transportation, Mobility and Parking
Kyle Benjamin – Traffic Analyst – Transportation, Mobility and Parking
Steven Kleppin – Director – Planning and Zoning
Bryan Baker – Principal Planner – Planning and Zoning
Michelle Andrzejewski – Senior Planner – Planning and Zoning
Amelia Williams – Land Use Planner – Planning and Zoning
William Ireland – Chief Building Official – Building and Code Enforcement
Leo Guerrero – Assistant Building Official – Building and Code Enforcement
Peter Kelly – Assistant Building Official – Building and Code Enforcement
Dean Martin, P.E. – Grumman Engineering L.L.C.

GENERAL CONSTRUCTION NOTES

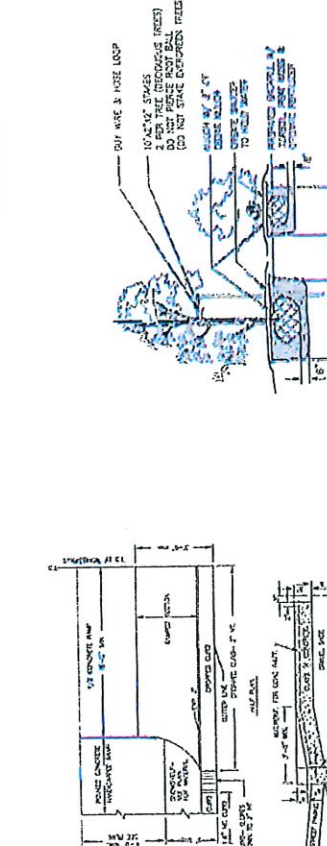
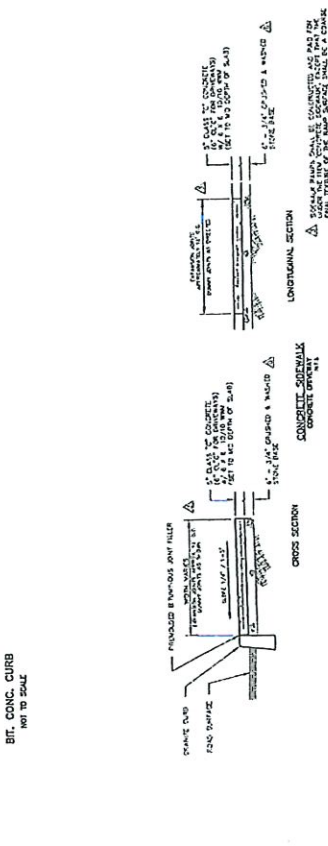
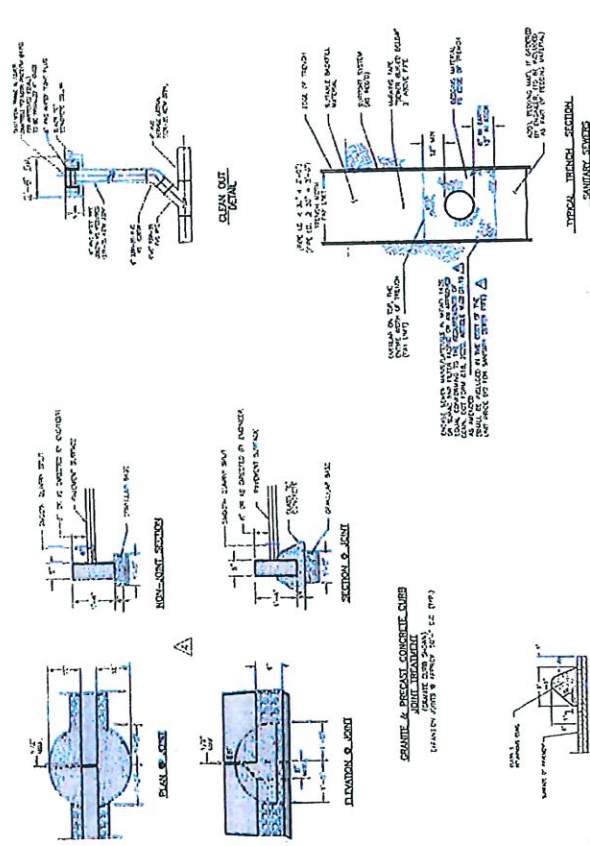
1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AS APPLICABLE TO THE STATE OF CONNECTICUT, AND THE STANDARD SPECIFICATIONS FOR BRIDGE CONSTRUCTION, AS APPLICABLE TO THE STATE OF CONNECTICUT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. NO WORK SHALL BE DONE ON THE PROJECT WITHOUT THE PRESENTATION OF A CURRENTLY VALID PERMIT TO WORK.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
6. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.
7. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL CONSTRUCTION ACTIVITIES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
10. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.
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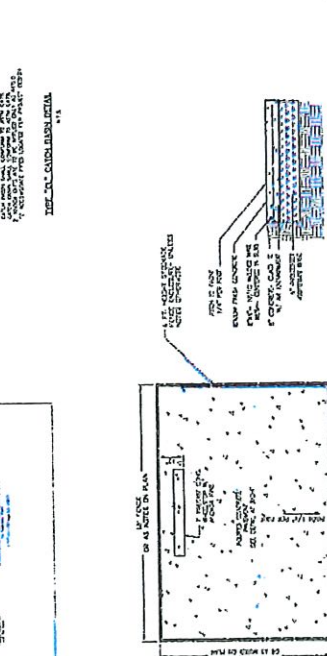
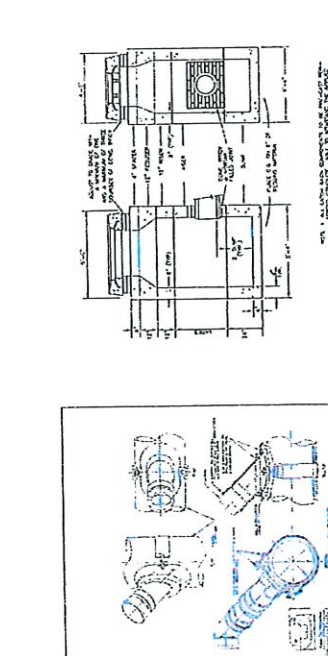
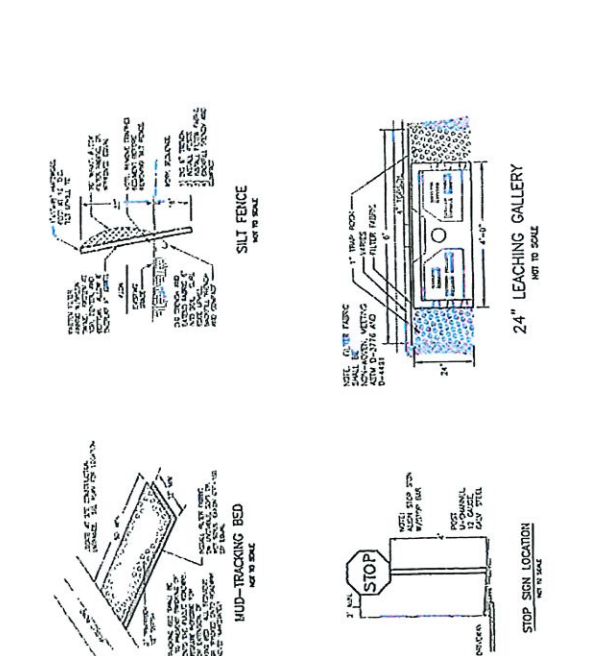
GLENWOOD AVENUE, LLC
NORWALK, CONNECTICUT

**MULTI-FAMILY HOUSING
DETAILS & NOTES**

GRUHAN ENGINEERING LLC
CONSULTING CIVIL ENGINEERS
25 AVENUE C
NORWALK, CONNECTICUT 06851
TEL: 203.881.1111 FAX: 203.881.1112



THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL CONSTRUCTION ACTIVITIES.



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STORM ~~WATERSEWER~~ EASEMENT

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

KNOW YE, that Glenwood Avenue, LLC of Wilton, CT (the "Grantor"), owner of property located at 7-9 Glenwood Avenue, City of Norwalk, County of Fairfield and State of Connecticut, for good and valuable consideration received to its full satisfaction of the CITY OF NORWALK, its successors and assigns (the "Grantee"), hereby grants and conveys a perpetual right of way and permanent ~~storm water sewer~~ easement in, over, under, through and upon a certain parcel of land located in the City of Norwalk, County of Fairfield and State of Connecticut, located on 7-9 Glenwood Avenue (the "Property"), the location and area of said easement being described ~~as follows in SCHEDULE A attached hereto and made a part hereof.~~

The area identified as "20' UTILITY EASEMENT AREA: 5,298 SF = 0.122 AC" on that certain map entitled "As-Built Survey" Scale 1" = 20' prepared for Glenwood Avenue LLC for project location 7 & 9 Glenwood Avenue, Norwalk, CT dated May 26, 2023, prepared by Landtech and on file in the office of the Town Clerk of said City of Norwalk as Map No. _____ (hereinafter referred to as the "Easement Area")

The right of way and storm ~~watersewer~~ easement are hereby conveyed together with all rights reasonably necessary or incident thereto, including the right in the Grantee, its officers, agents, employees, ~~and~~ representatives, and contractors of ingress and egress at all reasonable times to and from the lands of the Grantor lying within the above-described ~~easement~~ Easement Area for the purposes of locating, laying, installing, ~~repairing~~, constructing, replacing, ~~reconstructing~~, operating, ~~replacing and~~ maintaining, inspecting, altering and repairing therein the public storm ~~water drainage facilities~~ sewers and related appurtenances, the size thereof to be at the discretion of the Grantee. Whenever practical, the Grantee will give reasonable notice to the Grantor prior to its entrance upon the Grantor's property. ~~The cost of such laying, installing, repairing, constructing, replacing or maintaining the same will be at the expense of the Grantee. The Grantee exercise of the rights herein shall be at its sole cost and expense.~~

The Grantee is responsible for restoring any area of the property within the Easement Area that is disturbed as a result of work performed by Grantee hereunder as close as is practicable to its condition immediately preceding the commencement of Grantee's work thereon. Such restoration shall include placement of topsoil upon and seeding of any lawn area disturbed by Grantee. The restoration shall not include the replacement of any trees and repair or replacement of any driveway improvements. The Grantee shall not plant any additional trees in, on or upon the Easement Area at any time. Said restoration will be completed within a reasonable time period following completion of any work performed hereunder. The extent of said restoration will be subject to and will accommodate the reasonable need and requirements of the Grantee in installing and maintaining its storm sewer pipeline.

Commission Expires: _____

Commissioner of the Superior Court My

STORM WATER EASEMENT

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

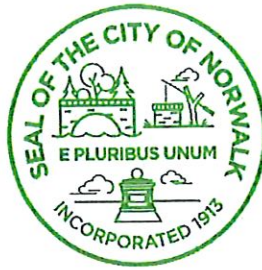
KNOW YE, that **Glenwood Avenue, LLC** of Wilton, CT (the "Grantor"), owner of property located at 7-9 Glenwood Avenue, City of Norwalk, County of Fairfield and State of Connecticut, for good and valuable consideration received to its full satisfaction of the **CITY OF NORWALK**, its successors and assigns (the "Grantee"), hereby grants and conveys a perpetual right of way and permanent storm water easement in, over, under, through and upon a certain parcel of land located in the City of Norwalk, County of Fairfield and State of Connecticut, located on 7-9 Glenwood Avenue (the "Property"), the location and area of said easement being described as follows

The area identified as "20' UTILITY EASEMENT AREA: 5,298 SF = 0.122 AC" on that certain map entitled "As-Built Survey" Scale 1" = 20' prepared for Glenwood Avenue LLC for project location 7 & 9 Glenwood Avenue, Norwalk, CT dated May 26, 2023, prepared by Landtech and on file in the office of the Town Clerk of said City of Norwalk as Map No. _____ (hereinafter referred to as the "Easement Area")

The right of way and storm water easement are hereby conveyed together with all rights reasonably necessary or incident thereto, including the right in the Grantee, its officers, agents, employees, representatives, and contractors of ingress and egress at all reasonable times to and from the lands of the Grantor lying within the above-described Easement Area for the purposes of locating, laying, installing, constructing, replacing, reconstructing, operating, maintaining, inspecting, altering and repairing therein the public storm water drainage facilities and related appurtenances, the size thereof to be at the discretion of the Grantee. Whenever practical, the Grantee will give reasonable notice to the Grantor prior to its entrance upon the Grantor's property. The Grantee exercise of the rights herein shall be at its sole cost and expense.

The Grantee is responsible for restoring any area of the property within the Easement Area that is disturbed as a result of work performed by Grantee hereunder as close as is practicable to its condition immediately preceding the commencement of Grantee's work thereon. Such restoration shall include placement of topsoil upon and seeding of any lawn area disturbed by Grantee. The restoration shall not include the replacement of any trees and repair or replacement of any driveway improvements. The Grantee shall not plant any additional trees in, on or upon the Easement Area at any time. Said restoration will be completed within a reasonable time period following completion of any work performed hereunder. The extent of said restoration will be subject to and will accommodate the reasonable need and requirements of the Grantee in installing and maintaining its storm sewer pipeline.

Except as otherwise provided herein, reserves the right to make any use of the Property that does not unreasonably interfere with the use and enjoyment of the easement granted herein to the Grantee.



Contract Staff Summary

Department/Staff Contact	Department of Public Works / Daniel Stanton, PE
Common Council Committee	Public Works Committee
Date Approved by Committee	June 4, 2024
Purpose/Scope	The purpose of this project is to improve curbs, sidewalks and ADA ramps throughout the City in preparation for the City paving program.
Vendor (Indicate if new or <u>existing</u> vendor)	The Grasso Companies, LLC
Term of Contract	One Hundred and Fifty (150) days from Notice to Proceed
Method of Procurement (Indicate if sole source)	Bid
Cost of Contract	Base Contract: \$1,070,580.00 10% Contingency: \$107,058.00 Total: \$1,177,638.00
Funding Source/Account Number	03 00 00 2602 09 23 7100 5777 C0583 09 24 4021 5777 C0318 09 25 4021 5777 C0318 09 24 4021 5777 C0021 09 25 4021 5777 C0021 09 21 4021 5777 C0440 09 22 4021 5777 C0440 09 24 4021 5777 C0440 09 25 4021 5777 C0440
Additional Information/Other Details	Project Bid No. 4359 RD2024-3 Curbs and Sidewalks for Beacon Street

3.0.36



DEPARTMENT OF
ENGINEERING

CITY OF NORWALK
Christine Cardascia
*Assistant Civil Engineer/
Department of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7981
ccardascia@norwalkct.gov

MEMORANDUM

TO: Vanessa Valadares, P.E. – Chief of Operations and Public Works
CC: James Meehan, P.E. – Principal Engineer
Daniel Stanton, PE – Senior Civil Engineer
FROM: Christine Cardascia – Assistant Civil Engineer
RE: Project Bid No. 4359 RD2024-3 Curbs and Sidewalks for Beacon Street
DATE: May 28, 2024

The Department of Public Works has prepared plans for “Project RD2024-3.” This project consists of the City’s Curbs and Sidewalks for Beacon Street.

As part of this Project, the following work is proposed to be done:

- This project connects sidewalks for Beacon Street from Sunset Hill Avenue to Strawberry Hill, creating a safe pedestrian corridor
- Concrete Curbing and Sidewalk installation and replacements throughout
- Installation of various drainage structures
- Right of Way (ROW) grading and drainage

The Purchasing Agent opened the bids for this Project on May 23, 2024 and the apparent low bidder is The Grasso Companies, LLC with a bid amount of \$1,070,580.00.

I have attached a copy of the selection results received from four (4) bidders for your reference, including an itemized comparison of the three (3) apparent low responsive bid results and Engineer’s Estimate for your reference. Therefore, I would like to request that the following items be included on the agenda for the June 4, 2024, Public Works Committee meeting.

- 1) Authorize the Mayor, Harry W. Rilling, to execute an Agreement between the City of Norwalk and The Grasso Companies, LLC for Project RD2024-3 Curbs and Sidewalks for Beacon Street for a sum not to exceed \$1,070,580.00.

Account No. 03 00 00 2602
09 23 7100 5777 C0583
09 24 4021 5777 C0318
09 25 4021 5777 C0318
09 24 4021 5777 C0021
09 25 4021 5777 C0021
09 21 4021 5777 C0440
09 22 4021 5777 C0440
09 24 4021 5777 C0440
09 25 4021 5777 C0440



**DEPARTMENT OF
ENGINEERING**

CITY OF NORWALK
Christine Cardascia
*Assistant Civil Engineer/
Department of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7981
ccardascia@norwalkct.gov

- 2) Authorize the Chief of Operations and Public Works, to execute orders on the contract between the City of Norwalk and The Grasso Companies, LLC, for Project RD2024-3 Curbs and Sidewalks for Beacon Street for a sum not to exceed \$107,058.00.

Account No. 03 00 00 2602
 09 23 7100 5777 C0583
 09 24 4021 5777 C0318
 09 25 4021 5777 C0318
 09 24 4021 5777 C0021
 09 25 4021 5777 C0021
 09 21 4021 5777 C0440
 09 22 4021 5777 C0440
 09 24 4021 5777 C0440
 09 25 4021 5777 C0440

A copy of the bid information from the Purchasing Department for Project 4359, RD2024-3 Curbs and Sidewalks for Beacon Street be found at the link below.

<https://www.norwalkct.gov/DocumentCenter/Index/1773>



**DEPARTMENT OF
ENGINEERING**

CITY OF NORWALK
Christine Cardascia
*Assistant Civil Engineer/
Department of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7981
dstanton@norwalkct.gov

BID SHEET

PROJECT: RD2024-3
Curbs and Sidewalks for Beacon Street

DATE: THURSDAY, MAY 23, 2024 2:00 P.M.

BIDDER	BID AMOUNT	BID BOND
The Grasso Companies, LLC 57 Viaduct Road Stamford, CT 06907	\$1,070,580.00	15% Argonaut Insurance Company
Colonna Concrete and Asphalt Paving, LLC 1233 Johnson Road Woodbridge, CT 06525	\$1,174,885.00	15% Employer Mutual Casualty
Burns Construction Company, Inc. 300 Sperry Avenue Stratford, CT 06615	\$1,413,803.00	15% Western Surety Company
Star Construction Corporation 40 Embree Street Stratford, CT 06615	\$1,683,770.00	15% Great Midwest Insurance Company

Project Number : RD2024-3
Project Name : CURB AND SIDEWALK FOR BEACON STREET

Items	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
0202000	EARTH EXCAVATION	75	\$5.00	\$375.00	\$10.00	\$750.00	\$50.00	\$3,750.00	\$7.00	\$525.00
0202002	ROCK EXCAVATION	10	\$150.00	\$1,500.00	\$250.00	\$2,500.00	\$200.00	\$2,000.00	\$411.67	\$4,116.70
0202451A	TEST PIT EXCAVATION	15	\$350.00	\$5,250.00	\$200.00	\$3,000.00	\$485.00	\$6,975.00	\$525.00	\$7,875.00
0202491	REMOVAL AND RESETTING OF GRANITE STONE CURBING	10	\$50.00	\$500.00	\$60.00	\$600.00	\$150.00	\$1,500.00	\$52.25	\$522.50
0202503A	REMOVAL OF CONCRETE CURBING	10	\$5.00	\$50.00	\$10.00	\$100.00	\$85.00	\$850.00	\$5.25	\$52.50
0202504A	REMOVAL OF BITUMINOUS CONCRETE CURBING	10	\$3.00	\$30.00	\$10.00	\$100.00	\$85.00	\$850.00	\$5.25	\$52.50
0302906	3/4" WASHED CRUSHED STONE	50	\$40.00	\$2,000.00	\$50.00	\$2,500.00	\$33.00	\$1,650.00	\$25.00	\$1,250.00
0304002	PROCESSED AGGREGATE BASE	50	\$25.00	\$1,250.00	\$40.00	\$2,000.00	\$30.00	\$1,500.00	\$31.50	\$1,575.00
0406203A	ROAD ENCROACHMENT PERMANENT PAVEMENT REPAIR (COLLECTOR) MIN BID - SEE SPECIAL NOTES	10	\$120.00	\$1,200.00	\$150.00	\$1,500.00	\$150.00	\$1,500.00	\$140.00	\$1,400.00
0406204A	ROAD ENCROACHMENT PERMANENT PAVEMENT REPAIR (LOCAL) MIN BID - SEE SPECIAL NOTES	1,350	\$60.00	\$81,000.00	\$75.00	\$101,250.00	\$55.00	\$74,250.00	\$75.00	\$101,250.00
0506001	CONCRETE FOR RETAINING WALLS, STEPS AND COPINGS	10	\$150.00	\$1,500.00	\$1,000.00	\$10,000.00	\$1,900.00	\$19,000.00	\$1,155.00	\$11,550.00
0507042A	RESET CATCH BASIN	10	\$2,000.00	\$20,000.00	\$1,000.00	\$10,000.00	\$780.00	\$7,800.00	\$603.75	\$6,037.50
0507120	CATCH BASIN (TYPE C)(3'SUMP) (0'-10' FEET DEEP)	3	\$2,000.00	\$6,000.00	\$6,000.00	\$18,000.00	\$4,850.00	\$14,550.00	\$8,000.00	\$24,000.00
0507781	RESET MANHOLE	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$470.00	\$470.00	\$603.75	\$603.75
0507792A	RECONSTRUCT CATCH BASIN	10	\$250.00	\$2,500.00	\$800.00	\$8,000.00	\$780.00	\$7,800.00	\$695.72	\$6,957.20
0507831	CONVERT CATCH BASIN TO MANHOLE	2	\$500.00	\$1,000.00	\$2,300.00	\$4,600.00	\$3,350.00	\$6,700.00	\$2,625.00	\$5,250.00
0586790.10	REMOVE DRAINAGE STRUCTURE (0' - 10' DEEP)	2	\$500.00	\$1,000.00	\$1,200.00	\$2,400.00	\$2,000.00	\$4,000.00	\$500.00	\$1,000.00
0602000	DEFORMED STEEL BARS	75	\$10.00	\$750.00	\$5.00	\$375.00	\$4.00	\$300.00	\$2.63	\$197.25
0609001	REPOINTED MASONRY	20	\$100.00	\$2,000.00	\$200.00	\$4,000.00	\$225.00	\$4,500.00	\$0.00	\$0.00
0651343A	MISCELLANEOUS STORM DRAINAGE MODIFICATIONS	1	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
0651743	6" POLYVINYL CHLORIDE, SDR 35 STORM DRAINAGE PIPE	10	\$50.00	\$500.00	\$70.00	\$700.00	\$200.00	\$2,000.00	\$52.50	\$525.00
0686230.10	10" HIGH DENSITY POLYETHYLENE PIPE (0'-10' DEEP)	10	\$50.00	\$500.00	\$90.00	\$900.00	\$225.00	\$2,250.00	\$50.00	\$500.00
0686230.12	12" HIGH DENSITY POLYETHYLENE PIPE (0'-10' DEEP)	10	\$150.00	\$1,500.00	\$100.00	\$1,000.00	\$225.00	\$2,250.00	\$75.00	\$750.00
0811001A	CONCRETE CURBING	4,500	\$43.00	\$193,500.00	\$40.00	\$180,000.00	\$74.50	\$335,250.00	\$47.25	\$212,625.00
0811008A	CONCRETE CURBING - 6" X >20"-<32"	50	\$75.00	\$3,750.00	\$70.00	\$3,500.00	\$97.00	\$4,850.00	\$52.50	\$2,625.00
0811009A	CONCRETE CURBING - 6" X 32"-42"	50	\$75.00	\$3,750.00	\$100.00	\$5,000.00	\$97.00	\$4,850.00	\$78.75	\$3,937.50

Project Number : RD2024-3

Project Name : CURB AND SIDEWALK FOR BEACON STREET

Items		Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
0813013A	16"	5" GRANITE STONE CURBING (CURVED)	55	\$65.00	\$3,575.00	\$100.00	\$5,500.00	\$145.00	\$7,975.00	\$150.00	\$8,250.00
0813015A	5" X 16"	GRANITE STONE CURBING (STRAIGHT)	150	\$40.00	\$6,000.00	\$70.00	\$10,500.00	\$125.00	\$18,750.00	\$100.00	\$15,000.00
0813500		RESET STONE BLOCK DRIVEWAY	25	\$40.00	\$1,000.00	\$40.00	\$1,000.00	\$70.00	\$1,750.00	\$31.50	\$787.50
0814001		RESET STONE CURBING	50	\$25.00	\$1,250.00	\$50.00	\$2,500.00	\$80.00	\$4,000.00	\$26.25	\$1,312.50
0815001		BITUMINOUS CONCRETE LIP CURBING	100	\$10.00	\$1,000.00	\$15.00	\$1,500.00	\$20.00	\$2,000.00	\$5.25	\$525.00
0913818		RESET 30" CHAIN LINK FENCE	35	\$75.00	\$2,625.00	\$50.00	\$1,750.00	\$165.00	\$5,775.00	\$0.00	\$0.00
0921001A		CONCRETE SIDEWALK	20,000	\$14.00	\$280,000.00	\$14.00	\$280,000.00	\$18.25	\$365,000.00	\$10.00	\$200,000.00
0921011A		CONCRETE DRIVEWAY RAMP	1,800	\$16.00	\$28,800.00	\$18.00	\$32,400.00	\$32.00	\$57,600.00	\$11.00	\$19,800.00
0921014A		PRECAST CONCRETE PAVER SIDEWALK AND DRIVEWAY	10	\$30.00	\$300.00	\$50.00	\$500.00	\$90.00	\$900.00	\$45.00	\$450.00
0921021A		RELAY PRECAST CONCRETE PAVER SIDEWALK AND DRIVEWAY	50	\$20.00	\$1,000.00	\$30.00	\$1,500.00	\$20.00	\$1,000.00	\$43.75	\$2,187.50
0921045		REPLACE STONE SIDEWALK	50	\$30.00	\$1,500.00	\$20.00	\$1,000.00	\$35.00	\$1,750.00	\$31.50	\$1,575.00
0922001A		BITUMINOUS CONCRETE SIDEWALK	10	\$40.00	\$400.00	\$65.00	\$650.00	\$200.00	\$2,000.00	\$52.50	\$525.00
0922501A		BITUMINOUS CONCRETE DRIVEWAY	300	\$60.00	\$18,000.00	\$65.00	\$19,500.00	\$65.00	\$19,500.00	\$50.00	\$15,000.00
0924007A		HANDICAP RAMPS (ADA COMPLIANT)	128	\$200.00	\$25,600.00	\$35.00	\$4,480.00	\$50.00	\$6,400.00	\$27.30	\$3,494.40
0944003A		FURNISHING AND PLACING TOPSOIL	2,250	\$13.50	\$30,375.00	\$10.00	\$22,500.00	\$17.50	\$39,375.00	\$11.55	\$25,987.50
0949000		WOOD CHIP MULCH	1	\$50.00	\$50.00	\$30.00	\$30.00	\$940.00	\$940.00	\$15.75	\$15.75
0950003A		TURF ESTABLISHMENT (LAWN)	2,250	\$2.00	\$4,500.00	\$6.00	\$13,500.00	\$2.00	\$4,500.00	\$1.05	\$2,362.50
0970006A		TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	1	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00
0970007A		TRAFFICPERSON (UNIFORMED FLAGGER)	960	\$40.00	\$38,400.00	\$35.00	\$33,600.00	\$85.00	\$81,600.00	\$55.00	\$52,800.00
0971001A		MAINTENANCE AND PROTECTION OF TRAFFIC	1	\$10,000.00	\$10,000.00	\$80,000.00	\$80,000.00	\$8,500.00	\$8,500.00	\$75,000.00	\$75,000.00
0975004A		MOBILIZATION AND PROJECT CLOSEOUT (MAX 3% OF BID)	1	\$18,000.00	\$18,000.00	\$32,000.00	\$32,000.00	\$5,500.00	\$5,500.00	\$55,000.00	\$55,000.00
0980003A		PROJECT SURVEY AND STAKEOUT	1	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00
1000010A		MISCELLANEOUS TRANSITIONS TO MEET EXISTING PROPERTY CONDITIONS	1	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00	\$80,000.00
1014910		UTILITY RELOCATION	1	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
1209007		PAINTED PAVEMENT MARKINGS (4" YELLOW)	1,700	\$1.00	\$1,700.00	\$1.00	\$1,700.00	\$0.85	\$1,445.00	\$0.00	\$0.00
1211001		REMOVAL OF PAVEMENT MARKINGS	600	\$1.00	\$600.00	\$5.00	\$3,000.00	\$3.58	\$2,148.00	\$0.00	\$0.00
1212001		TEMPORARY PLASTIC PAVEMENT MARKINGS TAPE - 4" YELLOW	400	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1302060A		RESET GATE BOXES	40	\$50.00	\$2,000.00	\$50.00	\$2,000.00	\$100.00	\$4,000.00	\$52.50	\$2,100.00
				\$1,070,580.00		\$1,174,885.00		\$1,413,803.00		\$1,137,350.05	

Project Number : RD2024-3

Project Name : CURB AND SIDEWALK FOR BEACON STREET

Items	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount

Apparent Low Bidder : THE GRASSO COMPANIES LLC
Second Bidder : Colonna Concrete and Asphalt Paving, LLC
Third Bidder : BURNS CONSTRUCTION COMPANY, INC.



Contract Staff Summary

Department/Staff Contact	Transportation, Mobility, and Parking
Common Council Committee	Greg Pacelli gpacelli@norwalkct.gov
Date Approved by Committee	Public Works Committee of the Common Council <i>June 4, 2024</i>
Purpose/Scope	The purpose of this agreement is to award Rocco Iadarola General Contracting Company the contract to install a variety of thermoplastic materials that adheres to asphalt and concrete to enhance safety and aesthetic appeal in streetscape projects. These materials will be utilized as traffic calming measures as well as creating a safer and more defined pedestrian space. This contract gives the City the ability to mobilize the contractor at various locations with a defined design and specific preformed thermoplastic material. This is for a one-year contract extension based on the bid advertisement and executed contract in 2023.
Vendor (Indicate if new or existing vendor)	Rocco Iadarola General Contracting Company Existing Vendor
Term of Contract	1 (One) Year
Method of Procurement (Indicate if sole source)	Invitation to Bid for Construction
Cost of Contract	\$150,000.00
Funding Source/Account Number	0923 4120 5777 C0441 0924 3750 5777 C0441 0923 4120 5777 C0581 0924 3750 5777 C0581 0924 3750 5777 C0649 0924 3750 5777 C0777 0923 4120 5777 C0824 0924 3750 5777 C0824
Additional Information/Other Details	<i>TMP 2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections</i>

Ha & Hb



CITY OF NORWALK
Transportation Mobility & Parking
P: 203-854-7260
Norwalk City Hall
125 East Avenue, PO Box 5125
Norwalk, CT 06856-5125

TO: Public Works Committee of the Common Council

FROM: Jim Travers, Director Transportation, Mobility, and Parking

CC: Garrett Bolella, P.E., PTOE, RSP1 Assistant Director Transportation
Greg Pacelli, Transportation Planner

REF: Authorize the Mayor, Harry W. Rilling to execute a 1 (One) year contract extension on an existing contract with Rocco Iadarola General Contracting Company. TMP2023-1, Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections for an amount not to exceed \$150,000.00 annually.

DATE: May 21st, 2024

Memorandum

The Department of Transportation, Mobility, and Parking has prepared documents for TMP2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections. This project will consist of installation of thermoplastic materials that adheres to asphalt and concrete to enhance safety and aesthetic appeal in streetscape projects. The preformed thermoplastic materials enhance visibility for all roadway users including motorists, cyclists, and pedestrians. These materials will be utilized as traffic calming measures as well as creating a safer and more defined pedestrian space. The materials are extremely durable and have been engineered specifically for streetscape and crosswalk projects that require durability, safety, comfort, aesthetics and low maintenance. For 2024, TMP plans to perform crosswalk and other asphalt surface enhancements at various locations. These enhancements will create a safer roadway for all users.

On May 24th, 2023, a bid opening was held for project TMP 2023-1. One competitive bid, which is attached, was received. On June 13th, 2023, the Common Council approved the first year of the contract and the contract was awarded to Rocco Iadarola General Contracting Company. This agreement is to extend the contractor, Rocco Iadarola General Contracting Company, for 1 (One) year, which is included in the original base contract. Based on the awarded contract in 2023,

Transportation, Mobility, and Parking requests adding the following items to the June 4th meeting of the Public Works Committee. We request that the committee approve the extension so TMP can continue to install these products to enhance mobility across the city.

- a. Authorize the Mayor, Harry W. Rilling to execute an extension for a 1 (One) year agreement with Rocco Iadarola General Contracting Company for Project TMP2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections for an amount not to exceed \$150,000.00

Account No.

0923 4120 5777 C0441
0924 3750 5777 C0441
0923 4120 5777 C0581
0924 3750 5777 C0581
0924 3750 5777 C0649
0924 3750 5777 C0777
0923 4120 5777 C0824
0924 3750 5777 C0824

- b. Authorize the Director of Transportation, Mobility and Parking, to execute an extension for 1 (One) year Orders on Contract with Rocco Iadarola General Contracting Company for project TMP2023-1 Decorative Crosswalks and Traffic Calming Surfaces at Various Intersections, for an amount not to exceed \$15,000.00

Account No.

0923 4120 5777 C0441
0924 3750 5777 C0441
0923 4120 5777 C0581
0924 3750 5777 C0581
0924 3750 5777 C0649
0924 3750 5777 C0777
0923 4120 5777 C0824
0924 3750 5777 C0824

A copy of the bid information for Purchasing Department Project Number – TMP Project Number – Project Name, can be reviewed by following the link

<https://www.norwalkct.org/DocumentCenter/Index/1713>

Project Number: TMP2023-1

Project Name: DECORATIVE CROSSWALKS AND TRAFFIC CALMING SURFACES AT VARIOUS LOCATIONS

<u>ITEM NUMBER</u>	<u>QUANTITY</u>	<u>UNIT PRICE IN WORDS</u>	<u>UNIT PRICE</u>	<u>AMOUNT BID</u>
1209471A	1	DURABLE SKID AND SLIP RESISTANT COVERING FOR STAMPED ASPHALT		
		Ennis-Flint/PPG TrafficPatternsLT	\$19.00 / sq. ft.	Quote per Project
		per SQUARE FEET		
1209472A	1	STAMPED ASPHALT SURFACING SYSTEM		
		Ennis-Flint/PPG TrafficPatternsXD	\$20.00 / sq. ft.	Quote per project
		per SQUARE FEET		
1209473A	1	ASPHALT INLAID SURFACING SYSTEM		
		Ennis-Flint/PPG DuraTherm	\$19.00 / sq. ft.	Quote per project
		per SQUARE FEET		
1209474A	1	DECORATIVE CROSSWALKS AND TRAFFIC CALMING SURFACES		
		Ennis-Flint/PPG TrafficPatterns	\$23.00 / sf. ft.	Quote per project
		per SQUARE FEET		
1209475A	1	MULTI-COLOR INTERCONNECTED PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL		
		Ennis-Flint DecoMark	Quote / sq. ft.	Quote per project
		per SQUARE FEET		
1209476A	1	THERMOPLASTIC COLOR PAVEMENT MARKINGS		
		Ennis-Flint/PPG PreMark	Quote / sq. ft.	Quote per project
		per SQUARE FEET		

CONTRACTOR'S

PROPOSAL

Project Number: TMP2023-1

Project Name: DECORATIVE CROSSWALKS AND TRAFFIC CALMING SURFACES AT VARIOUS LOCATIONS

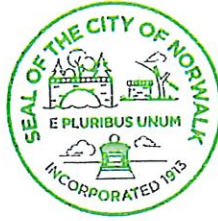
<u>ITEM NUMBER</u>	<u>QUANTITY</u>	<u>UNIT PRICE IN WORDS</u>	<u>UNIT PRICE</u>	<u>AMOUNT BID</u>
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Total Amount: \$ _____

Total In Gross Sum Written In Words

CONTRACTOR'S

PROPOSAL



Contract Staff Summary

Department/Staff Contact	Transportation, Mobility, and Parking Nathan Fankhanel, EIT nfankhanel@norwalkct.gov Garrett Bolella, PE, PTOE, RSP1 gbolella@norwalkct.gov Troy Deering tdeering@norwalkct.gov
Common Council Committee	Public Works Committee of the Common Council
Date Approved by Committee	<i>June 4, 2024</i>
Purpose/Scope	The purpose of this agreement is to award Burns Construction Company the contract to construct a multipurpose driveway/trail in the rear of Tracey Magnet Elementary School. This driveway/trail will allow for cars to queue along the perimeter of the existing field in the rear of the school during pick up and drop off periods of the school day. In all other hours outside of pick up and drop off, the driveway will be used as a trail for school activities. This contract gives the City the ability to mobilize the contractor at Tracey Magnet Elementary School with a defined design.
Vendor (Indicate if new or existing vendor)	Burns Construction Company Existing Vendor
Term of Contract	90 Days
Method of Procurement (Indicate if sole source)	Invitation to Bid for Construction
Cost of Contract	\$396,940.90
Funding Source/Account Number	0924 - 3750 - 5777 - C0677 0923 - 4120 - 5777 - C0441
Additional Information/Other Details	<i>TMP 2024-5 Tracey Magnet Elementary School Multipurpose Driveway/Trail</i>



CITY OF NORWALK
Transportation Mobility & Parking
P: 203-854-7260
Norwalk City Hall
125 East Avenue, PO Box 5125
Norwalk, CT 06856-5125

TO: The Common Council

FROM: Jim Travers, Director Transportation, Mobility, and Parking

CC: Nathan Fankhanel, E.I.T., Junior Engineer, Project Manager
Garrett Bolella, P.E., PTOE, RSP1 Assistant Director Transportation
Troy Deering, Road Construction Project Manager

REF: Authorize the Mayor, Harry W. Rilling to execute an agreement with
Burns Construction Company on project TMP2024-05 - Tracey Magnet
Elementary School Multipurpose Driveway/Trail for an amount not to
exceed \$396,940.90.

DATE: May 22nd, 2024

Memorandum

TMP is has designed and developed plans to construct a new multipurpose driveway/pedestrian trail located in the rear of Tracey Magnet Elementary School. The new driveway/trail will be connected to the School's existing parking lot and go around the perimeter of the existing field behind the school. Also included in this project is a minor reconfiguration of the existing parking lot to create a safer environment for pedestrians and vehicles who are queued during pickup and drop off hours.

The necessity for this project was brought to the City's attention by the school officials and local community who are impacted daily by the long queue of cars that spills out of the school's parking lot and into the local street network during student pickup and drop off. This new driveway/trail will allow vehicles to queue all the way around the perimeter of the field behind the school, allowing for the queue to be completely isolated to the school's property and not onto Camp Street. In all hours besides student pickup and drop off periods, the driveway will be closed off to vehicular travel and will be used as an exclusive pedestrian facility for the school's extracurricular activities. The community and school have been very vocal in support of this plan and we are excited to be able to provide them with these improvements.

On April 30th, 2024, a bid opening was held for project TMP 2024-05. TMP received four competitive bids and after our analysis, Burns Construction Company was selected as the qualified low bidder. Based on the review of these bids, TMP requests adding the following items to the June 4th, 2024 meeting of the Common Council.

a.- Authorize the Mayor, Harry W. Rilling to execute an agreement with Burns Construction Company - TMP2024-05 Tracey Magnet Elementary School Multipurpose Driveway/Trail, for an amount not to exceed \$396,940.90

Account No. – 0924 - 3750 - 5777 - C0677
0923 - 4120 - 5777 - C0441

b.- Authorize the the Director of Transportation, Mobility and Parking to execute Orders on Contract with Burns Construction Company - TMP2024-05 Tracey Magnet Elementary School Multipurpose Driveway/Trail, for a contingency amount not to exceed 10% of the above contract (\$39,694.09)

Account No. – 0924 - 3750 - 5777 - C0677
0923 - 4120 - 5777 - C0441

A copy of the bid information for Purchasing Department Project Number –TMP Project Number – Project Name, can be reviewed by following the link

<https://www.norwalkct.gov/Bids.aspx?CatID=All&txtSort=Title&showAllBids=on&Status=>

Bid Sheets Below

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
201001	1	CLEARING AND GRUBBING <u>EIGHT THOUSAND DOLLARS</u>	<u>8,000.00</u>	<u>8,000.00</u>
		per Lump Sum		
202000	1100	EARTH EXCAVATION <u>THIRTY SIX DOLLARS</u>	<u>36.00</u>	<u>39,600.00</u>
		per Cubic Yard		
202529	325	CUT BITUMINOUS CONCRETE PAVEMENT <u>THREE DOLLARS</u>	<u>3.00</u>	<u>975.00</u>
		per Linear Foot		
202533	80	REMOVAL OF EXISTING CURBING <u>THIRTEEN DOLLARS AND SEVENTY FIVE CENTS</u>	<u>13.75</u>	<u>1,100.00</u>
		per Linear Foot		
209001	1900	FORMATION OF SUBGRADE <u>SIX DOLLARS AND TWENTY CENTS</u>	<u>6.30</u>	<u>11,970.00</u>
		per Square Yard		
219001	500	SEDIMENTATION CONTROL SYSTEM (SILT FENCE) <u>SEVEN DOLLARS AND FIFTY CENTS</u>	<u>7.50</u>	<u>3,750.00</u>
		per Linear Foot		

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
SEDIMENT CONTROL SYSTEM AT CATCH BASIN				
219011	2	<u>FOUR HUNDRED FIFTY DOLLARS</u>	<u>450.00</u>	<u>900.00</u>
per Each				
PROCESSED AGGREGATE BASE				
304002	650	<u>FOETY SIX DOLLARS</u>	<u>46.00</u>	<u>29,900.00</u>
per Cubic Yard				
TEMPORARY PAVEMENT				
406002	100	<u>ONE CENT</u>	<u>0.01</u>	<u>1.00</u>
per Square Yard				
HMA S0.5				
406171	230	<u>TWO HUNDRED DOLLARS</u>	<u>200.00</u>	<u>46,000.00</u>
per Ton				
HMA S0.375				
406172	230	<u>TWO HUNDRED TEN DOLLARS</u>	<u>210.00</u>	<u>48,300.00</u>
per Ton				
MATERIAL FOR TACK COAT				
406236	200	<u>TWELVE DOLLARS</u>	<u>12.00</u>	<u>2,400.00</u>
per Gallon				

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
REMOVE EXISTING PIPE - 0' - 10' DEEP				
686950.1	100	<u>FIFTY DOLLARS</u>	<u>50.00</u>	<u>5,000.00</u>
		per Linear Foot		
BITUMINOUS CONCRETE LIP CURBING				
815001	150	<u>TWENTY FOUR DOLLARS</u>	<u>24.00</u>	<u>3,600.00</u>
		per Linear Foot		
BOLLARD				
901005	2	<u>SEVENTEEN HUNDRED AND TWENTY DOLLARS</u>	<u>1720.00</u>	<u>3,440.00</u>
		per Each		
BOLLARD COVER				
901020	2	<u>THREE HUNDRED FORTY DOLLARS</u>	<u>340.00</u>	<u>680.00</u>
		per Each		
VEHICLE BARRIER GATE (BARRIER SINGLE GATE)				
91385	2	<u>FIVE THOUSAND DOLLARS</u>	<u>4,000.00</u>	<u>8,000.00</u>
		per Each		
SWEEPING FOR DUST CONTROL				
939001	5	<u>THREE HUNDRED TEN DOLLARS</u>	<u>310.00</u>	<u>1,550.00</u>
		per Hour		

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
943001	150	WATER FOR DUST CONTROL <u>EIGHT DOLLARS</u> per M. GAL	<u>8.00</u>	<u>1,200.00</u>
944000	2200	FURNISHING AND PLACING TOPSOIL <u>FOURTEEN DOLLARS AND FORTY FIVE CENTS</u> per Square Yard	<u>14.45</u>	<u>31,790.00</u>
949010	3500	RAIN GARDEN PLANTING <u>SEVENTY FIVE CENTS</u> per Square Foot	<u>0.75</u>	<u>2,625.00</u>
949110	425	RAIN GARDEN <u>ONE HUNDRED FIFTEEN DOLLARS</u> per Cubic Yard	<u>115.00</u>	<u>48,875.00</u>
949440	10	HONEYLOCUST TREE (IMPERIAL) <u>NINE HUNDRED FIFTY DOLLARS</u> per Each	<u>950.00</u>	<u>9,500.00</u>
950005	2750	TURF ESTABLISHMENT <u>THREE DOLLARS AND FIFTY CENTS</u> per Square Yard	<u>3.50</u>	<u>9,625.00</u>

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
TEMPORARY SEEDING (& SLIT SEEDING)				
950010	6800	<u>THREE DOLLARS</u>	<u>3.00</u>	<u>20,400.00</u>
per Square Yard				
SELECTIVE CLEARING AND THINNING				
952001	1	<u>EIGHT THOUSAND NINE HUNDRED FIFTY DOLLARS</u>	<u>8,950.00</u>	<u>8,950.00</u>
per Lump Sum				
MAINTENANCE & PROTECTION OF TRAFFIC				
971001A	1	<u>NINE THOUSAND NINE HUNDRED FIFTEEN DOLLARS</u>	<u>9,915.00</u>	<u>9,915.00</u>
per Lump Sum				
MOBILIZATION AND PROJECT CLOSEOUT (MAX OF 3% OF TOTAL BID)				
975004A	1	<u>SIX THOUSAND SEVEN HUNDRED TWENTY DOLLARS</u>	<u>6,720.00</u>	<u>6,720.00</u>
per Lump Sum				
CONSTRUCTION SURVEYING & STAKEOUT				
980020	1			<u>\$10,000.00</u>
per Allowance				
REMOVAL OF EXISTING MASONRY				
974002	1	<u>EIGHT THOUSAND SEVEN HUNDRED DOLLARS</u>	<u>8,700.00</u>	<u>8,700.00</u>
per Lump Sum				

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

ITEM NUMBER	QUANTITY	UNIT PRICE IN WORDS	UNIT PRICE	AMOUNT BID
REMOVAL AND RELOCATION OF EXISTING SIGNS				
1206023	1	<u>TWELVE THOUSAND SIX</u> <u>HUNDRED DOLLARS</u>	<u>12,600.00</u>	<u>12,600.00</u>
per Lump Sum				
SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)				
1208937	7	<u>ONE HUNDRED TWENTY</u> <u>DOLLARS</u>	<u>12000</u>	<u>840.00</u>
per Square Foot				
HOT-APPLIED PAINTED PAVEMENT MARKINGS 12" YELLOW				
1209114	170	<u>ONE CENT</u>	<u>0.01</u>	<u>1.70</u>
per Linear Foot				
HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE				
1209124	2500	<u>ONE CENT</u>	<u>0.01</u>	<u>25.00</u>
per Linear Foot				
HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS				
1209131	270	<u>ONE CENT</u>	<u>0.01</u>	<u>2.70</u>
per Square Foot				
REMOVAL OF PAVEMENT MARKINGS				
1211001	550	<u>ONE CENT</u>	<u>0.01</u>	<u>5.50</u>
per Square Foot				

Project Number: TMP 2024-05

Project: TRACEY MAGNET ELEMENTARY SCHOOL MULTIPURPOSE DRIVEWAY/TRAIL

TOTAL BID:

TOTAL IN GROSS SUM WRITTEN IN WORDS \$ 396,940.90

THREE HUNDRED NINETY SIX THOUSAND NINE HUNDRED FORTY

DOLLARS AND NINETY CENTS.

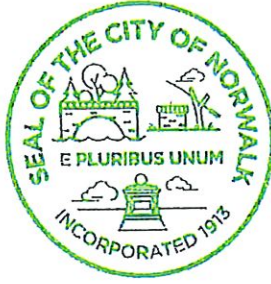
City of Norwalk
Transportation, Mobility & Parking

Item Numbers	Bid review Items	Qty	Unit	B&W	Burns	Colonna	Grasso
201001	CLEARING AND GRUBBING	1	LS	\$ 14,000.00	\$ 8,000.00	\$ 70,000.00	\$ 20,000.00
202000	EARTH EXCAVATION	1100	CY	\$ 52,800.00	\$ 39,600.00	\$ 22,000.00	\$ 55,000.00
202029	CUT BITUMINOUS CONCRETE PAVEMENT	325	LF	\$ 1,137.50	\$ 975.00	\$ 1,625.00	\$ 796.25
202529	REMOVAL OF EXISTING CURBING	80	LF	\$ 1,920.00	\$ 1,100.00	\$ 400.00	\$ 1,200.00
202533	FORMATION OF SUBGRADE	1900	SY	\$ 8,550.00	\$ 11,970.00	\$ 19,000.00	\$ 5,700.00
209001	SEDIMENTATION CONTROL SYSTEM (SILT FENCE)	500	LF	\$ 6,000.00	\$ 3,750.00	\$ 2,500.00	\$ 1,500.00
219001	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	2	Each	\$ 800.00	\$ 900.00	\$ 500.00	\$ 290.00
304002	PROCESSED AGGREGATE BASE	650	CY	\$ 47,450.00	\$ 29,900.00	\$ 40,300.00	\$ 19,500.00
406002	TEMPORARY PAVEMENT	100	SY	\$ 19,000.00	\$ 1.00	\$ 3,000.00	\$ 5,000.00
406171	IMA SLS	250	Ton	\$ 34,750.00	\$ 48,300.00	\$ 64,400.00	\$ 69,000.00
406172	HMA SLS375	200	Gal	\$ 2,400.00	\$ 2,400.00	\$ 4,000.00	\$ 2,200.00
406236	MATERIAL FOR TACK COAT	100	LF	\$ 3,900.00	\$ 5,000.00	\$ 3,000.00	\$ 5,100.00
686950.1	REMOVE EXISTING PIPE - 8" - 10" DEEP	150	LF	\$ 5,250.00	\$ 3,600.00	\$ 3,000.00	\$ 2,175.00
815001	BITUMINOUS CONCRETE LIP CURBING	2	Each	\$ 4,200.00	\$ 3,440.00	\$ 2,000.00	\$ 2,400.00
901005	BOLLARD	2	Each	\$ 870.00	\$ 680.00	\$ 1,000.00	\$ 450.00
901020	HOLLARD COVER	2	Each	\$ 12,000.00	\$ 8,000.00	\$ 15,000.00	\$ 7,200.00
91385	VEHICLE BARRIER GATE (BARRIER SINGLE GATE)	5	Hour	\$ 1,000.00	\$ 1,550.00	\$ 200.00	\$ 1,125.00
939001	SWEEPING FOR DUST CONTROL	150	M Gal	\$ 4,500.00	\$ 1,200.00	\$ 1,500.00	\$ 18,000.00
943001	WATER FOR DUST CONTROL	2200	SY	\$ 28,600.00	\$ 31,790.00	\$ 26,400.00	\$ 30,800.00
944000	FURNISHING AND PLACING TOPSOIL	3500	SF	\$ 17,990.00	\$ 2,625.00	\$ 35,000.00	\$ 87,500.00
949010	RAIN GARDEN PLANTING	425	CY	\$ 36,975.00	\$ 48,875.00	\$ 42,500.00	\$ 106,250.00
949110	RAIN GARDEN	10	Each	\$ 10,000.00	\$ 9,500.00	\$ 20,000.00	\$ 7,700.00
949440	HONEYLOCUST TREE (IMPERIAL)	2750	SY	\$ 5,500.00	\$ 9,625.00	\$ 27,500.00	\$ 4,537.50
950005	TURF ESTABLISHMENT	6800	SY	\$ 39,984.00	\$ 20,400.00	\$ 34,000.00	\$ 9,860.00
950010	TEMPORARY SEEDING (SILT SEEDING)	1	LS	\$ 6,000.00	\$ 8,950.00	\$ 5,000.00	\$ 5,600.00
952001	SELECTIVE CLEANING AND THINNING	1	LS	\$ 4,600.00	\$ 9,915.00	\$ 50,000.00	\$ 2,150.00
971001.A	MAINTENANCE & PROTECTION OF TRAFFIC	1	LS	\$ 10,000.00	\$ 6,720.00	\$ 16,000.00	\$ 17,000.00
975004.A	MOBILIZATION AND PROJECT CLOSEOUT	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
980020	CONSTRUCTION SURVEYING & STAKEOUT	1	LS	\$ 5,600.00	\$ 8,700.00	\$ 3,000.00	\$ 3,000.00
974002	REMOVAL OF EXISTING MASONRY	1	LS	\$ 8,000.00	\$ 12,600.00	\$ 3,000.00	\$ 4,500.00
1206023	REMOVAL AND RELOCATION OF EXISTING SIGNS	7	SF	\$ 2,905.00	\$ 840.00	\$ 1,050.00	\$ 630.00
1208937	SIGN FACE - SHEET ALUMINUM (TYPE N1 RETROREFLECTIVE SHEETING)	170	LF	\$ 170.00	\$ 1.70	\$ 1,700.00	\$ 63.00
1209114	HOT-APPLIED PAINTED PAVEMENT MARKINGS 12" YELLOW	2500	LF	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 2,250.00
1209124	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	270	LF	\$ 270.00	\$ 2.70	\$ 2,700.00	\$ 1,134.00
1209131	HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	550	SF	\$ 2,502.50	\$ 5.50	\$ 1,650.00	\$ 1,650.00
1211001	REMOVAL OF PAVEMENT MARKINGS			\$ 444,994.00	\$ 396,940.90	\$ 595,225.00	\$ 568,760.75
Total:							

Add ons and Alternates:

Grand Total:

Notes:



Contract Staff Summary

Department/Staff Contact Department of Public Works / Vanessa Valadares 203-854-7902

Common Council Committee Public Works Committee

Date Approved by Committee June 4, 2024

Purpose/Scope Stormwater Management Plan

Vendor CDM Smith
(Indicate if new or existing vendor)

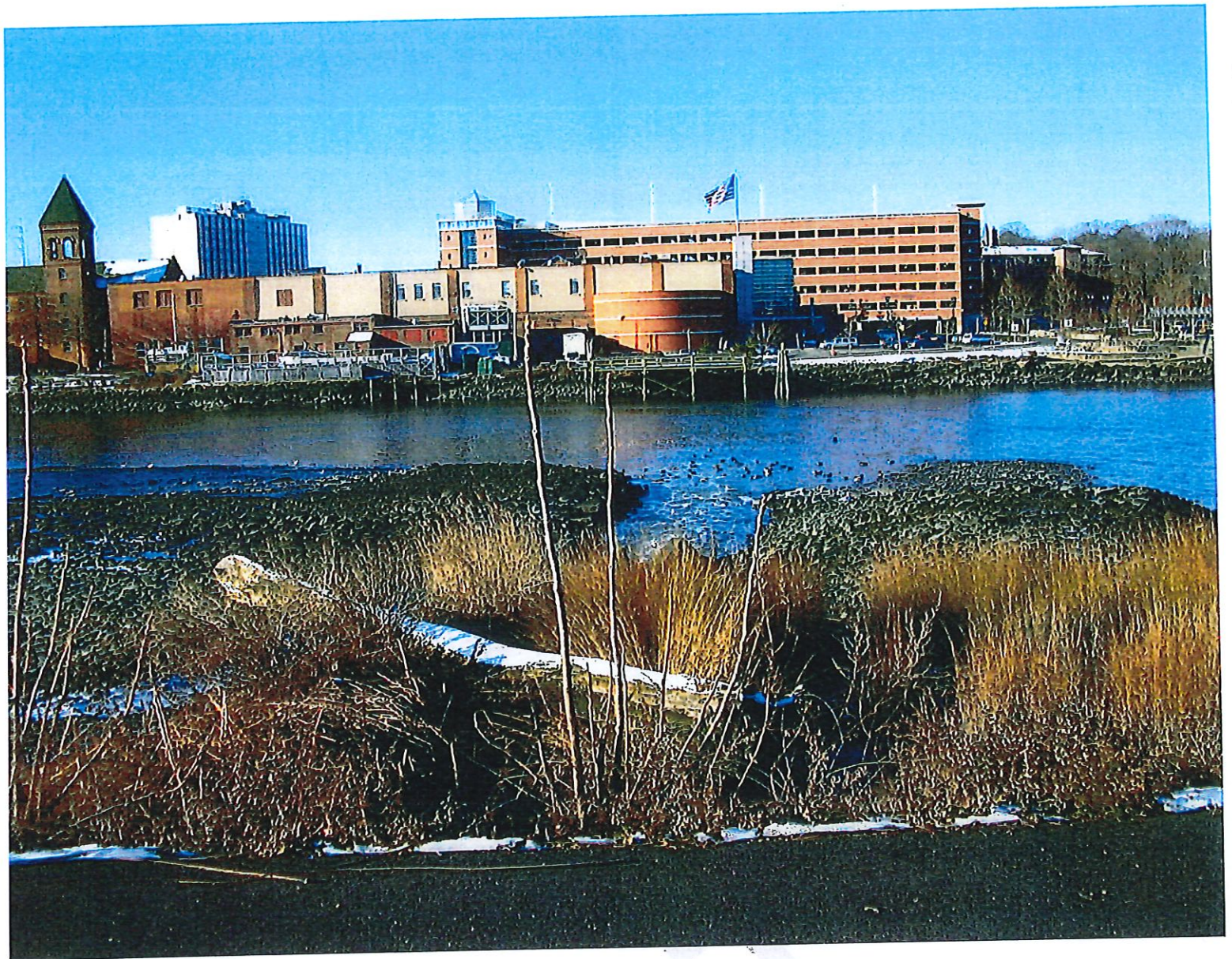
Term of Contract n/a

Method of Procurement n/a
(Indicate if sole source)

Cost of Contract n/a

Funding Source/Account Number

Additional Information/Other Details Authorizing the Mayor to sign the Stormwater Management Plan in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b.



DRAFT
MAY 2024

Stormwater Management Plan (SMP) - *Draft*



Prepared for: City of Norwalk, CT



**CDM
Smith**



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Appendix A CT DEEP General Permit for the Discharge of Stormwater from Small MS4s
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Acronyms and Abbreviations

SWMP	Stormwater Management Plan
MEP	Maximum Extent Practicable
DEEP	Department of Energy and Environmental Protection
MS4	Municipal Separate Storm Sewer Systems
EPA	Environmental Protection Agency
NPDES	National Pollutant Discharge Elimination System
BMP	Best Management Practices
DOT	Department of Transportation
DCIA	Directly Connected Impervious Area
IDDE	Illicit Discharge Detection and Elimination
CMMS	Computerized Maintenance Management System
SSO	Sanitary Sewer Overflow
CEAC	Code Enforcement Administration Committee
WPCA	Water Pollution Control Authority
DPW	Department of Public Works
LID	Low Impact Development
R&P	Recreation and Parks
TMDL	Total Maximum Daily Loads



Introduction

This Stormwater Management Plan (SMP) was developed by the City of Norwalk to protect water quality and reduce the discharge of pollutants from the municipality's storm sewer system to the maximum extent practicable (MEP). This SMP addresses the requirements established by the CT Department of Energy and Environmental Protection's (DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). This permit is the local enforcement mechanism of the U.S. Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Rule.

SMP Structure

The plan outlines a program of best management practices (BMPs), measurable goals, responsible individuals or departments, and implementation schedules for the following six minimum control measures:

- 1) Public education and outreach
- 2) Public involvement and participation
- 3) Illicit discharge detection and elimination
- 4) Construction site stormwater runoff control
- 5) Post-construction stormwater management in new development and redevelopment
- 6) Pollution prevention/good housekeeping

Appendices to this plan include the CT DEEP General Permit for the Discharge of Stormwater from Small MS4s and a map of the City's impaired waterbodies.

Area Subject to the Plan

The measures identified in this SMP will be applied throughout the boundaries of the City of Norwalk except as otherwise noted and be consistent with the MS4 General Permit requirements. Stormwater discharge from municipally-owned maintenance garages, salt sheds and other facilities subject to the DEEP Industrial Stormwater General Permit will continue to be regulated under the conditions of that permit.

SMP Development

A Stormwater Management Committee led by the Public Works Department (including WPCA, Operations, Recreation & Parks, and Engineering) and including but not limited to representatives from Planning and Zoning, Code Enforcement, Health Department, and Conservation was assembled to coordinate the development and implementation of the SMP. Annual Reporting of the SMP's implementation will be tracked and documented in Annual Reports summarizing stormwater management activities carried out by the City and its partners. These reports will be submitted to DEEP on an annual basis no later than April 1.

Description of Municipality

The operator of the MS4 is the City of Norwalk. The City of Norwalk is a public entity located in the county of Fairfield County, State of Connecticut. The City of Norwalk covers an area of approximately thirty-six square miles, located in Southwestern Connecticut as shown in **Figure 1**.

The Connecticut Department of Transportation (DOT) operates an MS4 on state highways located in the City of Norwalk. This system is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be coordinated between the City and CT DOT.

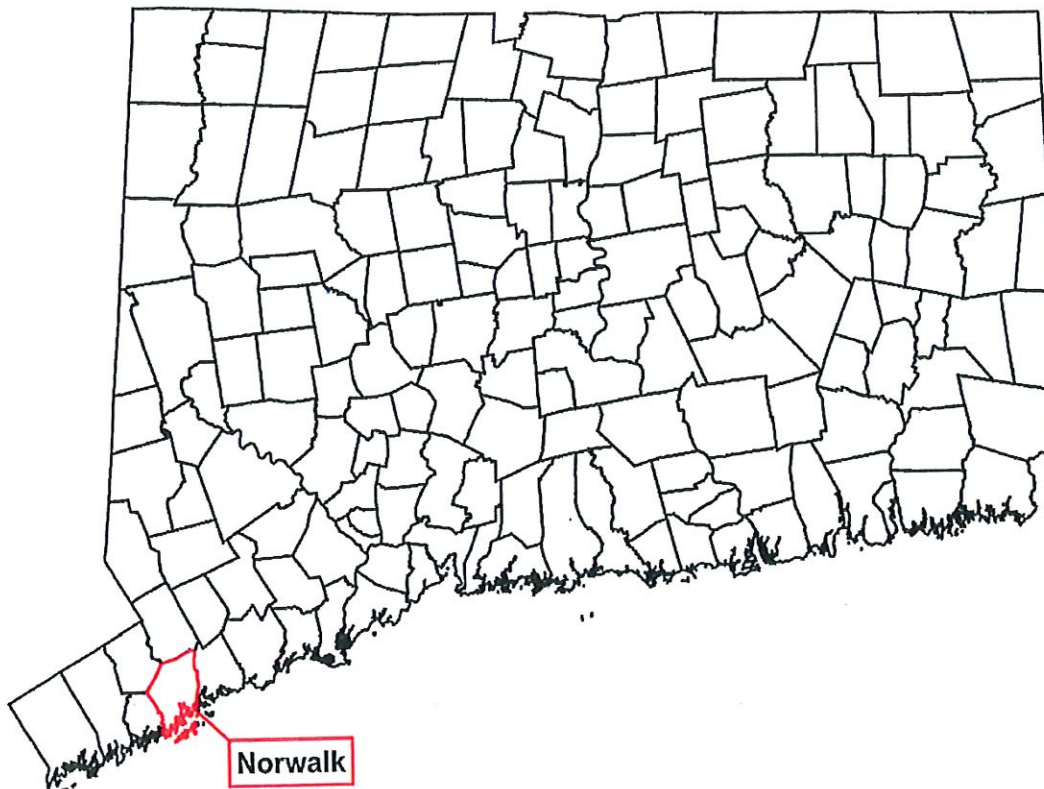


Figure 1 Norwalk, CT Location Map

Impaired Waters

In preparing the SMP, the CT DEEP's Water Quality Standards were reviewed in order to determine the Surface Water Quality Classifications for each watercourse in the City. Certain BMP's address the watersheds containing watercourses designated as "impaired" by the CT DEEP. **Table 1** shows the water quality classification for each watershed. **Table 2** summarizes the water bodies within or that run through the municipality that are listed on the 2022 List of Connecticut Water Bodies not meeting water quality standards and are designated as "impaired."

Table 1 Water Quality Surface Classifications in Norwalk, CT

Drainage Basin Number	Name	Surface Water Quality Classification	Impaired per Water Quality Standards
Five Mile River			
CT7401-00_01	Five Mile River (New Canaan) - 01	B	Yes
CT7401-05_01	Holy Ghost Father's Brook	A	No
CT7401-06_01	Keeler's Brook (Norwalk) - 01	A	Yes
CT7401-07_01	Unnamed Tributary to Keeler's Brook (Norwalk) - 01	A	Yes
CT-W1_014-SB	Inner Five Mile River (mouth), Norwalk	SB	No
CT-W2-015	Five Mile River Estuary, Darien	SA	Yes
Farm Creek			
CT7000-29_01	Unnamed Tributary to Farm Creek LIS (Norwalk) - 01	A	Yes
CT-W2-014	Wilson Cove, Farm Creek, Norwalk	SA	Yes
Norwalk River/Norwalk Harbor			
CT7300-00_01	Norwalk River (Norwalk/Wilton) - 01	B	Yes
CT7302-00_01	Silvermine River (Norwalk) - 01	A	Yes
CT7302-00_02	Silvermine River - 02	A	No
CT7302-13_01	Belden Hill Brook (Wilton) - 01	A	No
CT-W1-012-SB	Inner Norwalk Harbor, Norwalk	SB	Yes
CT-W1_013-SB	Norwalk Harbor (Marvin Beach)	SB	Yes
CT-W2-012	Outer Norwalk Harbor (East), Norwalk	SA	Yes
CT-W2-013	Outer Norwalk Harbor (West), Norwalk	SA	Yes
Norwalk Islands			
CT-W3_008-1	Norwalk Islands, Norwalk	SA	Yes
Indian River			
CT7000-22_02	Indian River (Westport) - 02	A	Yes
Canfield Island			
CT-W2_011	Canfield Island, Westport	SA	Yes

Table 2 Norwalk Impaired Waterbodies

Waterbody ID	Water Segment Description	Water Segment Length (miles)	Impaired Use	Pollutant	Cause/Potential Source
Five Mile River					
Five Mile River (CT7401-00_01)	INLET Jacob Pond (DS Amtrack crossing and Carolyn Court crossing), Norwalk/Darien town border, US to Old Norwalk Road crossing (0.2 Mi DS POTW), New Canaan.	5.62	Recreation, Habitat for Fish, Other Aquatic Life and Wildlife	Bacteria, Other pollutant of concern, Phosphorus	Escherichia coli, Cause Unknown, Phosphorus Total
Keeler's Brook (CT7401-06_01)	Mouth Fivemile River Darien/Norwalk town line, just DS Rowayton Avenue crossing (Woodchuck Lane intersection) US to unnamed tributary, .3 miles US Flax Hill Road crossing and just DS I95, Norwalk.	1.08	Recreation	Bacteria	Escherichia coli
Unnamed Tributary to Keeler's Brook (CT7401-07_01)	Mouth Keelers Brook .3 miles US Flax Hill Road crossing and just DS I95, US to OUTLET Scribner Pond just US Gillys Lane crossing, Norwalk.	1.03	Recreation	Bacteria	Escherichia coli
Five Mile River Estuary, Darien (CT-W2_015)	See Map for Boundaries. Western portion of LIS from Fish Islands to Norton Point (includes Bell Island Beach, Fish Islands, Contentment Island, Butlers Island, Fivemile River mouth, Roton Point) out approximately 1000 ft offshore, Darien.	0.342 sq miles	Shellfish Harvest	Bacteria	Fecal Coliform
Farm Creek					
Unnamed Tributary to Farm Creek LIS (CT7000-29_01)	Mouth Farm River (LIS) DS Route 136 crossing, US to HW at unnamed pond US Roton Middle School and RR crossing, Norwalk.	1.07	Recreation	Bacteria	Escherichia coli
Wilson Cove, Farm Creek, Norwalk (CT-W2-014)	See Map for Boundaries. Western portion of LIS from Norton Point to just west of Hoyt Island (includes Rowayton Beach, Bell Island, Wilson Point) out approximately 1000 ft offshore, Norwalk.	0.424 sq miles	Shellfish Harvest	Bacteria	Fecal Coliform

Waterbody ID	Water Segment Description	Water Segment Length (miles)	Impaired Use	Pollutant	Cause/Potential Source
Norwalk River/Norwalk Harbor					
Norwalk River-01 (CT7300-00_01)	Wall Street (Commerce Street) crossing (head of estuary/saltwater limit), Norwalk, US to confluence Bryant Brook (DS Wolfpit Road crossing), Wilton. (Segment includes Winnipauk Mill Pond, Deering Pond)	5.63	Recreation, Habitat for Fish, Other Aquatic Life and Wildlife	Bacteria, Other pollutant of concern	Escherichia coli, Cause Unknown
Silvermine River-01 (CT7302-00_01)	Mouth Norwalk River (northwest INLET Deering Pond portion of river), US to Merritt Parkway (Route 15) crossing, Norwalk. (Segment includes Davis Pond).	0.98	Recreation	Bacteria	Escherichia coli
Inner Norwalk Harbor (CT-W1_012-SB)	See Map for Boundaries. Western portion of LIS, Inner Estuary, from SA/SB water quality line at mouth of Norwalk Harbor (Calf Pasture Point), US to saltwater limit at Wall Street Crossing (EXCLUDES eastern cove of Marvin Beach), Norwalk.	0.942 Sq miles	Shellfishing, Habitat for Marine Fish, Other Aquatic Life and Wildlife, Recreation	Bacteria, Nitrogen and Phosphorus, Mercury	Fecal Coliform, Dissolved Oxygen, Mercury, Nitrogen Total, Nutrients, Enterococcus
Norwalk Harbor (Marvin Beach), Norwalk (CT-W1_013-SB)	See Map for Boundaries. Western portion of LIS, Inner Estuary, eastern embayment of Norwalk Harbor, from Gregory Point to Fitch Point into shore (includes Marvin Beach), Norwalk.	0.044 Sq Miles	Recreation, Shellfish Harvest, Habitat for Marine Fish, Other Aquatic Life and Wildlife	Bacteria, Nitrogen and Phosphorus	Enterococcus, Fecal Coliform, Dissolved Oxygen, Nitrogen Total, Nutrients
Outer Norwalk Harbor, East (CT-W2_012)	See Map for Boundaries. Western portion of LIS from midpoint of outer Norwalk Harbor to just west of Canfield Island area (includes Calf Pasture Beach, Shady Beach, Calf Pasture Point) out approximately 1000 ft offshore, Norwalk.	0.258 Sq miles	Shellfish Harvest, Habitat for Marine Fish, Other Aquatic Life and Wildlife	Bacteria, Nitrogen and Phosphorus	Fecal Coliform, Dissolved Oxygen, Nitrogen Total, Nutrients
Outer Norwalk Harbor, West (CT-W2_013)	See Map for Boundaries. Western portion of LIS from just west of Hoyt Island to midpoint of outer Norwalk Harbor (includes Hickory Bluff	0.365 Sq miles	Shellfish Harvest, Habitat for Marine Fish, Other Aquatic Life and Wildlife	Bacteria, Nitrogen and Phosphorus	Fecal Coliform, Dissolved Oxygen,

Waterbody ID	Water Segment Description	Water Segment Length (miles)	Impaired Use	Pollutant	Cause/Potential Source
	Beach, Hoyt Island, Keyser Point) out approximately 1000 ft offshore, Norwalk.				Nitrogen Total, Nutrients
Norwalk Islands					
Norwalk Islands (CT-W3_008-1)	See Map for Boundaries. Western portion of LIS, Inner Estuary, from SA/SB water quality line at mouth of Norwalk Harbor (Calf Pasture Point), US to saltwater limit at Wall Street Crossing (EXCLUDES eastern cove of Marvin Beach), Norwalk.	0.942 Sq miles	Shellfishing, Habitat for Marine Fish, Other Aquatic Life and Wildlife, Recreation	Bacteria, Nitrogen and Phosphorus, Mercury	Fecal Coliform, Dissolved Oxygen, Mercury, Nitrogen Total, Nutrients, Enterococcus
Indian River					
Indian River (CT7000-22_02)	95 crossing, Westport, US to HW (river portions in concrete channels and pipes), Norwalk. (Segment made from site map, actual hydro must be mapped to confirm underground portions).	0.94	Recreation	Bacteria	Escherichia coli
Canfield Island					
Canfield Island, Westport (CT-W2_011)	See Map for Boundaries. Western portion of LIS from just west of Canfield Island to Saugatuck Shores area (includes Canfield Island, Saugatuck Shores, Seymour Point) out approximately 1000 ft offshore, Westport.	0.43 Sq miles	Shellfish Harvest	Bacteria	Fecal Coliform

The surface water classifications currently assigned to City watercourses are defined below.

Class A

Surface water is known or presumed to meet Water Quality Criteria which support designated uses, which may include potential drinking water supply; fish and wildlife habitat; recreational use; agricultural, industrial supply and other legitimate uses, including navigation.

Class B

Surface water is known or presumed to meet Water Quality Criteria which support designated uses, which may include fish and wildlife habitat; recreational use; agricultural, industrial supply and other legitimate uses, including navigation.

Class SA

Coastal and marine surface water is known or presumed to meet Water Quality Criteria which support designated uses, which may include marine fish, shellfish and wildlife habitat, shellfish harvesting for direct human consumption, recreation and all other legitimate uses including navigation.

Class SB

Coastal and marine surface water is known or presumed to meet Water Quality Criteria which support designated uses, which may include marine fish, shellfish and wildlife habitat, shellfish harvesting for transfer to approved areas for purification prior to human consumption, recreation, industrial and other legitimate uses including navigation.

Based on the DEEP Surface Water Quality Classifications, the priority impaired waters identified in Table 1 that should take the highest priority in the City's efforts to address stormwater impacts. These include Five Mile River, the unnamed tributary to Farm Creek, Norwalk River, Norwalk Inner Harbor, Norwalk Outer Harbor (West and East), and Belden Hill Brook. This was taken into consideration as the BMPs were developed.



1.0 Public Education and Outreach

This minimum control measure outlines a program to communicate common sources of stormwater pollution and the impacts of polluted stormwater to the public. This will be done through distributing educational materials to the community and conducting outreach activities. The following BMPs and implementation schedule serve as City of Norwalk's MS4 Public Education Program.

The goals of the program are as follows:

-  Raise public awareness that polluted stormwater runoff is the most significant source of water quality problems;
-  Motivate residents to use BMPs that reduce polluted stormwater runoff; and
-  Reduce polluted stormwater runoff in the City as a result of increased awareness and utilization of BMPs.

1.1 Implement Public Education Program

The City, through its Department of Public Works, Conservation Office, Health Department, Planning & Zoning Department and Norwalk Harbor Commission, has developed a public education program and continues to implement ongoing public education outreach programs on stormwater impacts using a variety of approaches. The City will continue to collect and distribute stormwater educational materials that, at a minimum, address the impacts of the following on water quality: pet waste, impervious cover, application of fertilizers, pesticides, and herbicides, and illicit discharges and improper disposal of wastes into the MS4.

The City Public Works Department maintains a website with information about stormwater management (including copies of the City's Stormwater Management Plan and Annual Reports) <https://www.norwalkct.gov/1734/Stormwater-Management>. This website includes education brochures and factsheets as well as a link to UConn NEMO's comprehensive online library of stormwater educational material. The City will also provide materials in a printed format to be on display in public locations within City Hall and a public library.

Examples of the education information available on the Public Works Website includes:

- "After the Storm" - Citizens Guide to Understanding Stormwater by EPA
- "The Solution to Pollution" – A homeowner's guide to health habits for clean water by EPA
- "When It Rains, It Drains" – Understanding Stormwater and How It Can Affect Your money, Safety, Health, and the Environment by the PADEP
- Fact Sheet: City of Norwalk Water Quality and Stormwater Summary – CTDEEP
- Fact Sheet: MS4 General Permit - CTDEEP

The Norwalk Conservation Office also continues to improve its website to provide information about stormwater impacts: <http://www.norwalkct.org/index.aspx?NID=572>. This webpage includes information regarding the following topics:

- Stormdrains: On the Pathway to the Sound
- Guide to O&M of your On-Site Septic Systems
- Education of residents on the significance of wetland plantings and buffers.
- Information on invasive plant species to help identify, avoid and/or eradicate
- Pet waste management

The City also coordinates and partner with many local organizations, including but not limited to; the Five Mile River Action Group, East Norwalk Blue, Inc., Harbor Watch, and the Norwalk Maritime Aquarium.

Public Works Department and Conservation Office will continue to update their websites, and additional targeted outreach efforts will be completed by the Department of Public Works and the Conservation Office to educate K-12 students, agricultural operators, commercial businesses, developers, and homeowners on aspects of stormwater management.

The City will continue coordinate with partner organizations to ensure that all required topics listed in this plan are covered and tracked on an annual basis.

1.2 Address Education and Outreach for Pollutants of Concern

The City will distribute information on common sources of phosphorus, nitrogen, bacteria, and mercury pollution and how to prevent or reduce the amount reaching the MS4 and discharging into waterways.

Table 1.1 below shows additional topics to be covered to address the phosphorus, nitrogen, bacteria, and mercury impairments that exist in the City.

Table 1.1 Impairment Education Topics

Phosphorus	Nitrogen	Bacteria	Mercury
Septic systems	Septic systems	Septic systems	Thermometers
Fertilizer use	Fertilizer use	Sanitary cross connections	Thermostats
Grass clippings and leaves management	Grass clippings and leaves management	Waterfowl	Fluorescent lights
Detergent use	Discharge of sediment (to which Nitrogen binds) from Construction sites	Pet waste	Button cell batteries
Discharge of sediment (to which Phosphorus binds) from Construction sites	Other erosive surfaces	Manure piles associated with livestock and horses	
Other erosive surfaces			

Table 1.2 Public Outreach and Education Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Implement public education program	Public Works Department, Conservation Office, and Partner Organizations	Ongoing, started July 2017	Annual update of websites, continue public outreach activities.
Address education/outreach for pollutants of concern	Public Works Department, Conservation Office, and Partner Organizations	Ongoing, started July 2017	Continue to supplement available educational materials with information on pollutants of concern with annual website updates.

2.0 Public Involvement and Participation

This minimum control measure identifies the process for public involvement and participation in the City's stormwater management efforts.

The goals of this program are as follows:

- Involve the community in planning and implementing the City's stormwater management activities; and
- Provide a minimum 30 day notice to the public for this plan and annual reports.

2.1 Comply with Public Notice Requirements for the Stormwater Management Plan and Annual Reports

The City will publish a public notice on its Stormwater Management website (<https://www.norwalkct.gov/1734/Stormwater-Management>). The notice will provide a contact name, phone number, address, and email to whom the public can send comments. Additionally, this plan and the annual reports will be publicly accessible on the web <https://www.norwalkct.gov/1734/Stormwater-Management> and available for public inspection during regular business hours at the Public Works Department office. The public notice will allow for a 30-day comment period, at a minimum.

Table 2.1 Public Involvement and Participation Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Comply with public notice requirements for the SMP and Annual Reports	Public Works Department	Ongoing, started July 2017	Continue to provide public notice and a 30-day comment period for the SWMP and all future annual reports.



3.0 Illicit Discharge Detection and Elimination (IDDE)

This minimum control measure outlines a program to detect and eliminate current illicit discharges to the MS4 and prevent further illicit discharges in the future. All activities for this measure will be completed in City's priority areas (urbanized area, catchment areas with directly connected impervious area (DCIA) > 11%, and outfalls that discharge to impaired waters). The City of Norwalk is 100% urbanized area as designated by the U.S. Census. All watershed basins are greater than 11% impervious area, with the exception of three small basins (approx. 48 acres) which fall primarily within City park areas. The City can be considered nearly 100% priority area for IDDE program implementation.

The goal of this program is as follows:

- Find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and eliminate future illicit discharges.

3.1 Develop Written IDDE Plan

The City will develop a written IDDE plan to detect, locate and eliminate illicit discharges (to the maximum extent practicable) from the MS4 within City's priority areas. The IDDE plan will provide enforceable legal authority to eliminate illicit discharges, assign responsibilities, and develop a citizen reporting program. The plan will also outline the outfall screening and IDDE protocols consistent with Appendix B of the MS4 General Permit to identify, prioritize, and investigate MS4 catchments for suspected illicit discharge of pollutants. Also, the IDDE plan will outline follow-up screening and illicit discharge prevention procedures.

The City is currently working to establish a written IDDE plan with an expected completion date of March 2024, but has been completing IDDE identification and removals for many years.

3.2 Develop List and Map of all MS4 Outfalls and Interconnections in Priority Areas

The City will complete a database of all stormwater outfalls from a pipe or conduit located within and owned or operated by the municipality and all interconnections with other MS4s. Each entry will include:

- a) Type, material, size, shape and location (identified with a latitude and longitude) of conveyance, outfall or channelized flow (e.g. 24" concrete pipe);
- b) the name, water body ID and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
- c) if the outfall does not discharge directly to a named waterbody, the name and water body ID of the nearest named waterbody to which the outfall eventually discharges;
- d) the name of the watershed, including the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located;

- e) date of most recent inspection of the outfall, the condition, and any indicators of potential non-stormwater discharges as of most recent inspection;

The database will be exported into excel format for annual reports.

The City is currently mapping their conduits and stormwater discharges throughout their MS4 area.

3.3 Develop Citizen Reporting Program

The City has established a system to allow for citizen reporting which includes options for reporting an issue via mobile app, email (customerservice@norwalkct.gov), or phone ([203-854-3200](tel:203-854-3200)). The reporting system is described on the City website (<https://www.norwalkct.gov/1526/Click-Request>) and allows citizens to submit service requests, complaints, and concerns to the City. These reports are fed into the City's Computerized Maintenance Management System (CMMS) and relayed to the appropriate City Department.

The City affirmatively investigates and eliminates any illicit discharges for which a time and location of discharge are provided. The City will promptly inspect the reported outfall or manhole and proceed according to the requirements of the written IDDE program. All citizen reports and responses will be included in the City's annual report.

3.4 Establish Legal Authority to Prohibit Illicit Discharges

The City has established the necessary and enforceable legal authority to eliminate illicit discharges. The authority:

- a) Prohibits illicit discharges to its storm sewer system and require removal of such discharges consistent with the deadlines outlined in the MS4 general;
- b) authorizes the investigation of suspected illicit discharges and elimination of illicit discharge, including from properties not owned or controlled by the MS4 that discharge to the MS4;
- c) controls the discharge of spills and prohibit the dumping or disposal of materials including, but not limited to, residential, industrial and commercial wastes, trash, used motor vehicle fluids, pesticides, fertilizers, food preparation waste, leaf litter, grass clippings, and animal wastes into its MS4;
- d) authorizes appropriate enforcement procedures and actions; and
- e) authorizes fines or penalties and/or recoup costs incurred by the permittee from anyone creating an illicit discharge or spilling or dumping.

In 2010 the City established the legal authority to eliminate discharges with the adoption of Chapter 93 "Stormwater, Illicit Discharges and Connections" of the Code of the City of Norwalk. The City will update the ordinance for full compliance with the MS4 permit.

3.5 Develop Record Keeping System for IDDE Tracking

The City currently tracks IDDE issues and SSOs through the City's maintenance management system. The City will keep a record of illicit discharge abatement activities including location (including latitude and longitude or address), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party.

In addition, the City will develop and maintain an Sanitary Sewer Overflow (SSO) inventory that records the location, date and time of occurrence, estimated volume of discharge, a description of known or suspected cause, and details about mitigating measures including dates of implementation.

This inventory will also:

- include all known SSOs to their MS4 since December 2021;
- continue to be updated to track future SSOs; and
- be included in Annual Reports.

3.6 Address IDDE in Areas with Pollutants of Concern

The City will identify which areas are most likely to contribute nitrogen, phosphorus, and bacteria to the MS4. This assessment will consider historic on-site sanitary system failures, proximity to bacterial impaired waters, low infiltrative soils, and shallow groundwater. Any areas determined to have a high potential for septic system failure will be reported to the Health Department for corrective action.

3.7 Detailed MS4 Infrastructure Mapping

The City will continue to develop and revise a detailed map of the MS4 to include:

- Components of the MS4 within priority areas:
 - Outfalls & receiving waters;
 - Pipes, open channel conveyances, catch basins, manholes;
 - Interconnections with other MS4s and other storm sewer systems;
 - Municipally-owned stormwater treatment structures (e.g. detention & retention ponds, infiltration systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other systems);
 - Catchment delineations for each outfall;
 - Impaired water bodies identified by name and use impairment as defined by the most recent integrated water quality report;
 - Municipal sanitary sewer system (if available); and
 - Municipal combined sewer system (if applicable).

The City will update the mapping as new information becomes available and will report on the progress of the development of this map in the annual report.

Table 3.1 Illicit Discharge Detection and Elimination Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Develop written IDDE program	Public Works Department, Health Department	March 2024	Complete written plan for IDDE program, including procedures and prioritization of areas
Develop list and maps of all MS4 stormwater outfalls in priority areas	Public Works Department	July 2025	Complete attribute mapping to determine which outfalls are in priority areas.
Develop citizen reporting program	Public Works Department, Health Department, Customer Service	Ongoing, started July 2017	Complete annual review of citizen reporting system and make improvements as necessary.
Establish legal authority to prohibit illicit discharges	Public Works Department, Health Department	March 2025	Continue enforcement and complete annual review to determine if any additional authority is required.
Develop record keeping system for IDDE tracking	Public Works Department, Health Department	Ongoing, started July 2017	Complete annual review of IDDE tracking system in CMMS and make improvements as necessary.
Address IDDE in areas with pollutants of concern	Public Works Department, Health Department	July 2028	Begin IDDE investigations in priority areas following completion of mapping.
Detailed MS4 infrastructure mapping	Public Works Department	Started July 2017, anticipated completion July 2026	Complete initial MS4 system mapping and continue to make improvements over time.
Complete list and maps of all MS4 stormwater outfalls throughout municipality	Public Works Department	Started July 2017, anticipated completion July 2025	Complete initial MS4 system mapping and continue to make improvements over time.



4.0 Construction Site Stormwater Runoff Control

This minimum control measure outlines procedures for minimizing polluted stormwater runoff from activities that disturb one or more acres of land. In the City, this is determined on a site-by-site basis.

The goal of this program is to:

- Minimize polluted stormwater runoff from construction sites and prevent it from carrying sediment into waterways via MS4 infrastructure.

4.1 Implement, Upgrade, and Enforce Land Use Regulations to Meet MS4 General Permit Requirements

The City will revise its land use regulations to establish the legal authority to control stormwater runoff from construction sites by requiring:

- a) developers, construction site operators, or contractors to maintain consistency with the Guidelines for Soil Erosion and Sedimentation Control, as amended, the Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by the DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b;
- b) the implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by the City;
- c) authorization from the City to carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs or institutional requirements related to the management of City's MS4. Inspections shall be conducted; where allowed, to inventory the number of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive drainage from the permittee's MS4;
- d) the owner of a site seeking development approval from City to provide and comply with a long term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive discharge from City's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
- e) regulation from the City, through interagency or inter-jurisdictional agreements, over the contribution of pollutants between the permittee's MS4 and MS4s owned or operated by others.

In addition, please note the following:

- f) Recent zoning regulation amendments incentivize projects to incorporate low impact development techniques like green roofs, rain gardens and other collection means to reduce the amount of runoff into storm drains.

- g) Planning & Zoning is currently revising the entirety of the City's zoning regulations which will include regulations regarding maximum impervious surface permitted and green infrastructure/sustainability requirements.

4.2 Develop and Implement Plan for Interdepartmental Coordination of Site Plan Review and Approval

The City's plan to coordinate the functions of all the departments and boards involved in the review, permitting, or approval of land disturbance projects is as follows:

The City will continue to have the coordinated review and oversight of the City's land use departments on all projects involving land disturbance. The City holds preapplication, Code Enforcement Administration Committee (CEAC) meetings with land use staff from the Building, Public Works, Water Pollution Control Authority (WPCA), Engineering, Planning & Zoning, Conservation, and Health Departments, to guide designers and developers to initiate incorporate LID and stormwater management in the pre-application process. The City will continue to bring awareness to lay boards and commissions on stormwater management practices to mitigate stormwater runoff and incorporate low impact development on large or sensitive projects that fall outside of normal regulatory boundaries. The recently adopted 2019-2029 Plan of Conservation & Development encourages the implementation of low impact development in both future public and private developments.

4.3 Review Site Plans for Stormwater Quality Concerns

The City will conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality on sites with soil disturbance of one acre or more. The City will also conduct site inspections to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures and take enforcement action when necessary.

4.4 Conduct Site Inspections

The City will perform construction site inspections and take enforcement actions if necessary to ensure the adequacy of the installation, maintenance, operation, and repair of all construction and post-construction runoff control measures.

City staff from the Planning & Zoning Department, Code Enforcement Office, Conservation Office, and Department of Public Works conduct site inspections to assess the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures. Depending on the circumstance, each of these departments has authority of enforcement.

4.5 Implement Procedure to Allow Public Comment on Site Development

The City's procedure for public involvement in proposed and ongoing development and land disturbance activities is as follows:

The public is invited and encouraged to comment in the consideration of proposed and ongoing development and land disturbance activities. The Planning and Zoning maintains their webpage with ongoing project information, pending applications, P&Z Commission meeting information and minutes, as well as an online complaint form.

The existing procedure for public involvement during the review of proposed activities includes regular public hearings at which time public input is sought and encouraged. For on-going activities, the public has opportunity to log a complaint or comment to either the Customer Service Division of Public Works, the Planning & Zoning Department, or the Conservation Office.

4.6 Implement Procedure to Notify Developers about DEEP Construction Stormwater Permit

The City will notify developers and contractors of their potential obligation to obtain authorization under DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (construction general permit) if their project disturbs more than 1 acre of land and results in a point source discharge to Connecticut surface waters directly or through the City's MS4. The City will also require a copy of the Storm Water Pollution Control Plan be made available to on request. The procedure to notify developers of the construction general permit is as follows:

The Planning & Zoning Department will add specific notification language on their land use application forms to alert developers or contractors of their potential obligation to obtain authorization under DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (construction general permit) if their project disturbs more than one (1) acre of land and results in a point source discharge to Connecticut surface waters directly or through the City's MS4. The contractor is required at all times to conduct his operations in conformity with all Federal and State permit requirements concerning water, air, noise pollution and the disposal of contaminated, or hazardous materials. The City will also require a copy of the Storm Water Pollution Control Plan be made available upon request.

The contractor is required at all times to conduct his operations in conformity with all Federal and State permit requirements concerning water, air, noise pollution and the disposal of contaminated, or hazardous materials.

Table 4.1 Construction Site Stormwater Management Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Implement, upgrade, and enforce land use regulations or other legal authority to meet MS4 permit requirements	Planning and Zoning, Engineering, and Conservation	Ongoing, started July 2017	Continue to review requirements and update as necessary.
Develop/implement plan for interdepartmental coordination in site plan review and approval	Planning and Zoning	Ongoing, started July 2017	Continue CEAC review meetings.
Review site plans for stormwater quality concerns	Engineering	Ongoing, started July 2017	Continue site plan reviews.

BMP	Lead department / individual	Implementation Status	Measurable goal
Conduct site inspections	Planning and Zoning, Code Enforcement, Conservation, Department of Public Works (DPW)	Ongoing, started July 2017	Continue inspection and enforcement.
Implement procedure to allow public comment on site development	Planning and Zoning	Ongoing, started July 2017	Continue public comment procedures.
Implement procedure to notify developers about DEEP construction stormwater permit	Planning and Zoning and Engineering	Ongoing, started July 2017	Updated applications with language reflective of MS4. Continue annual review.



5.0 Post-construction Stormwater Management in New Development or Redevelopment

This minimum control measure outlines the City's program to address stormwater runoff from new or re-development projects that disturb one or more acres of land.

The goal of this program is to:

- Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices.

5.1 Establish or Update Legal Authority and Guidelines Regarding LID and Runoff Reduction in Site Development Planning

The City will establish or update existing the legal authority by ordinance, bylaw, regulation, standard condition of approval, or other means to require, to the MEP, developers and contractors seeking the City's approval to consider the use of low impact development (LID) and runoff reduction site planning and development practices that meet or exceed those LID and runoff reduction practices in the CT Stormwater Quality Manual prior to other stormwater management practices allowed in City's land use regulations, guidance or construction project requirements.

This legal authority will include the following standards:

- 1) for redevelopment of sites that are currently developed with DCIA of forty percent or more, the project must retain on-site half the water quality volume for the site, or
- 2) for new development and redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site, or
- 3) if those retention standards cannot be met, the developer will be required to provide a report indicating why the standard could not be met and a mitigation project on another property or pay a fee to fund a DCIA retrofit.

In developing this legal authority, The City will consider the following watershed protection elements to manage the impacts of stormwater on receiving waters:

- 1) When possible, minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within each municipality by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of Low Impact Development or green infrastructure practices.
- 2) Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed functions. These areas may include, but are not limited to; riparian corridors, headwaters, floodplains and wetlands.

- 3) Implement stormwater management practices that prevent or reduce thermal impacts to streams, including requiring vegetated buffers along waterways, and disconnecting discharges to surface waters from impervious surfaces such as parking lots.
- 4) Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges.
- 5) Implement standards to protect trees, and other vegetation with important evapotranspirative qualities.
- 6) Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.
- 7) Coordinate with state or local health officials to ensure no interference with performance of on-site septic systems.

In addition, City will review its current regulations - site planning requirements, zoning regulations, street design regulations, and infrastructure specifications with minimum size criteria for impervious cover (roads, parking lots, etc.) to identify and, where appropriate, reduce or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices to the MEP.

The City adopted a revised Drainage Manual that established stormwater management standards that require that applicants for development/redevelopment within the City consider the use of LID and provide runoff reduction. The Drainage Manual went into effect June 1, 2017. The Drainage Manual is available at City Hall Land Use offices and at <http://norwalkct.org/DocumentCenter/View/11484>.

In addition to the specific standards and authority laid out in the 2017 Drainage Manual, the City is reviewing its current regulations – including site planning requirements, zoning regulations, street design regulations, and infrastructure specifications with minimum size criteria for impervious cover to identify and, where appropriate, reduce or eliminate existing regulatory barriers to implementation of LID to the maximum extent practicable.

5.2 Implement Long-term Maintenance Plan for Stormwater Basins and Treatment Structures

The City will develop a maintenance plan for retention / detention ponds and stormwater treatment structures that it owns or over which it holds an easement or other authority and that are located in the City's priority areas to ensure their long-term effectiveness. This plan will require an annual inspection of those retention / detention ponds and stormwater treatment structures and removal of accumulated sediment and pollutants in excess of 50% design capacity.

5.3 DCIA Mapping

The City will follow guidance provided by DEEP and UConn Center for Land Use Education and Research (CLEAR) to calculate the DCIA that contributes stormwater runoff to each of its MS4 outfalls. Progress on this task will be documented in each Annual Report until completion.

5.4 Address Post-construction Issues in Areas with Pollutants of Concern

For areas contributing to waters where **Nitrogen, Phosphorus or Bacteria** is a Stormwater Pollutant of Concern and erosion or sedimentation problems are found during the annual inspections conducted under the long-term maintenance plan described in BMP 5.2, The City will prioritize those areas for the DCIA retrofit program under minimum control measure 6 – Pollution Prevention/Good Housekeeping.

Table 5.1 Post-construction Stormwater Management Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Establish or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Planning and Zoning, Engineering	Ongoing, started July 2017	Continue to review requirements and update as necessary.
Enforce LID/runoff reduction requirements for development and redevelopment projects	Planning and Zoning, Engineering, Conservation, Code Enforcement	Ongoing, started July 2017	Continue to enforce existing drainage manual and update with additional requirements as necessary.
Implement long-term maintenance plan for stormwater basins and treatment structures	Public Works Department	July 2025	Implement an inspection and maintenance program for City owned structures.
Complete DCIA mapping	Department of Public Works, IT Department	July 2026	Map and calculate existing DCIA. Continue to report this metric annually.
Address post-construction issues in areas with pollutants of concern	Planning and Zoning, Conservation, Engineering, Code Enforcement, Health Department	July 2025	Identify priority areas and develop inspection program.



6.0 Pollution Prevention / Good Housekeeping

This minimum control measure outlines a program to mitigate the impact of City operations and maintenance on City owned and/or operated properties and the MS4 itself to water quality.

The goal of this program is to:

- Prevent or reduce pollutant runoff as a result of municipal operations.

The City will implement an operations and maintenance program to prevent or reduce pollutant runoff from City facilities and protect water quality.

6.1 Develop and Implement Formal Employee Training Program

The City will continue its MS4 training program for City employees to increase awareness of water quality issues. Training will include:

- Standard operating procedures consistent with the MS4 general permit;
- General goals and objectives of this Stormwater Management Plan;
- Identification and reporting of illicit discharges and improper disposal; and
- Spill response protocols and responsibilities.

These trainings may also include regional or statewide trainings coordinated by UConn CLEAR or others.

Annually, the WPCA staff organizes a tour of the Copps Island Oyster facility to educate its employees of the importance of clean water and how important their jobs are by maintaining the stormwater and sanitary sewer collection system. The tour consists of both a walking and boat cruise to obtain an overall understanding of oyster farming, harvesting, and processing. Operations Division of Public Works, sanitary sewer collection crews, consultants, and other City staff members participate in this event as part of the education. At times, Harbor Watch and the Department of Agriculture Bureau of Aquaculture participate as well.

The waste programs manager is responsible for stormwater education/training of employees at the Public Works Center and is reviewing /preparing items. Also, existing plans, permits, brochures and fact sheets are reviewed with staff.

6.2 Implement MS4 Property and Operations Maintenance

City-owned or -operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of the City will be maintained so as to minimize the discharge of pollutants to its MS4. Such maintenance will include, but not be limited to:

6.2.1 Parks and Open Space

The City utilizes an organic land management strategy without the use of pesticides and fertilizers that is defined in Chapter 77A of the City Code. The City allows integrated pest management techniques for limited use on applicable properties. The City has established an interdepartmental pest management

team (IPMT) to evaluate proposed applications of fertilizers and pesticides. No restricted product can be applied to any City owned property without the approval of the IPMT. The application to the IPMT must include a pest management plan and a product is only approved for a limited time use. This process is defined further in Chapter 77A of the City Code.

Additionally at City Properties, Recreation and Parks (R&P) mulches all grass clippings and provides 95-gallon garbage totes, with functional lids, which are emptied multiple times a week.

6.2.2 Pet Waste Management

The City will identify locations where inappropriate pet waste management practices are immediately apparent and pose a threat to receiving water quality due to proximity and potential for direct conveyance of waste to its storm system and waters. In such areas, the City will, implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators).

In City-owned recreational areas where dog walking is allowed, the City will install educational signage, pet waste baggies, and disposal receptacles (or require carry-out).

The City will document its efforts in its annual reports. The City will consider including information regarding the scope and extent of its education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

Currently, pets are only allowed at Taylor Farm and portions of Cranbury Park sites managed by R&P. Both sites have doggie bag stations maintained by volunteers. The waste receptacles are emptied several times a week. "Curb your dog" signage is also prevalent on these sites. Current staffing levels does not allow for enforcement through R&P, but rely on the Police Department for enforcement.

6.2.3 Waterfowl Management

The City will identify lands where waterfowl congregate and feeding by the public occurs.

To raise awareness regarding the water quality impacts, The City will install signage or use other targeted techniques to educate the public about the detrimental impacts of feeding waterfowl (including the resulting feces deposition) and discourage such feeding practices.

The City will also implement practices that discourage the undesirable congregation of waterfowl in these areas, or otherwise isolate the direct drainage from these areas away from its storm system and waters.

The R&P Department has a standing contract with Geese Relief to manage any waterfowl issues on Parks controlled properties.

6.2.4 City of Norwalk Buildings and Facilities

Facilities include schools under the jurisdiction of the City, City offices, police and fire stations, pools, parking garages and other City-owned or operated buildings or utilities.

The City will:

- evaluate the use, storage, and disposal of both petroleum and non-petroleum products and ensure, through employee training, that those responsible for handling these products know proper procedures;
- ensure that Spill Prevention Plans are in place, if applicable, and coordinate with the fire department as necessary;
- develop management procedures for dumpsters and other waste management equipment;
- keep areas surrounding the facilities clean to minimize runoff of pollutants; and
- ensure that all interior building floor drains are not connected to the MS4 and are appropriately permitted.

6.2.5 Vehicles and Equipment

The City will:

- establish procedures for the storage of City-owned or -operated vehicles;
- require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;
- evaluate fueling areas owned by the City and used by City owned or -operated vehicles and if possible, place fueling areas under cover in order to minimize exposure;
- establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters; and
- ensure any interior floor drains are appropriately permitted.

6.2.6 Leaf Management

The City will establish and implement procedures to minimize or prevent the deposition of leaves in catch basins, streets, parking lots, driveways, sidewalks or other paved surfaces that discharge to the MS4. Such procedures shall also apply to leaves collected by The City. The City offers leaf and yard waste curb pickup four (4) weeks a year, and yard waste can also be brought to 15 S Smith Street for disposal.

6.3 Implement Coordination with Interconnected MS4s

The City will coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas and stormwater control measures in the respective MS4s. This same coordination shall be conducted regarding operation and maintenance procedures utilized in the respective systems.

6.4 Develop and Implement a Program to Control Other Sources of Pollutants to the MS4

The City will develop and implement a program to control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by a CT DEEP stormwater permit.

6.5 Evaluate Additional Measures for Discharges to Impaired Waters

- For Waters for which **Nitrogen** or **Phosphorus** is a Stormwater Pollutant of Concern:
 - On City-owned or -operated lands, the City will implement a turf management practices and procedures policy which includes, but is not limited to, procedures for proper fertilizer application and the planting of native plant materials to lessen the amount of turf area requiring mowing and the application of chemicals. Each Annual Report will discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.
- For Waters for which **Bacteria** is a Stormwater Pollutant of Concern:
 - On City-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), the City will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Each Annual Report will identify problem areas for which a retrofit or source management program were developed, the location of the closest outfall monitored in accordance with Section 6(i), the cost of such retrofit or program, and the anticipated pollutant reduction. On City-owned or -operated lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Each Annual Report will discuss the actions taken to implement this program.

6.6 Track Projects that Disconnect DCIA

The City will annually track the total acreage of DCIA that is disconnected from the MS4 as a result of redevelopment or retrofit projects within the City. For each retrofit/redevelopment project, the City will document the amount of existing DCIA that is disconnected. The total amount of disconnected DCIA will be reported each year in the Annual Report. Starting on July 1, 2021, the City's goal will be to reduce 1% of its total DCIA acreage per year to the maximum extent possible. The City will provide updates on this goal in its annual report. The City will also incorporate all DCIA disconnections which occurred in the City since July 1, 2012 towards meeting this goal.

6.7 Develop and Implement an Infrastructure Repair, Rehabilitation, and Retrofit Program

The City will continue their program to identify MS4 structures to repair, rehabilitate, or upgrade to reduce or eliminate the discharge of pollutants into water bodies. This program will be responsive to new information on outfalls discharging pollutants, impaired waters, inspections, or observations made during outfall mapping under the IDDE section of this plan.

Annually, the Department of Public Works Engineering and Operations Divisions inspect all catch basins and storm drain pipes within streets scheduled for paving. In addition, Engineering evaluates localized flooding or potential storm drain issues on a case by case basis.

Any catch basins and/or storm drain pipes through inspection where structural deficiencies or capacity improvements are identified are tracked and prioritized for improvements either internally or by a City contractor.

6.8 Develop and Implement Plan to Identify and Prioritize Retrofit Projects

The City will develop a Retrofit Project Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within one of the MS4 priority areas (urbanized area, DCIA > 11%, discharge to impaired waters). The City will include in its annual report for the third year of the permit (2026-2027) its identification and prioritization process, a rationale for the selection of projects to be implemented, and the total acres of DCIA to be disconnected upon implementation. The implementation of projects in this plan will begin by July 1, 2028.

6.9 Develop and Implement Street Sweeping Program

The City has established and implemented procedures for sweeping city-owned or operated streets. All streets within the MS4 Priority Areas will be inspected, swept and/or cleaned (as necessary) at least once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.). The procedures shall also include more frequent inspections, cleaning and/or sweeping of targeted areas determined by the City to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. The City will identify such potential pollutant sources based upon surface inspections, catch basin cleaning or inspection results, land use, winter road deicing and/or sand application, impaired or Total Maximum Daily Loads (TMDL) waters or other relevant factors as determined by the City. If wet dust suppression is conducted, the use of water will be minimized such that a discharge of excess water to surface waters and/or the storm sewer system does not occur.

For City streets, including any rural uncurbed streets, the City will meet the minimum frequencies above. For new and redeveloped municipal parking lots, the City will evaluate options for reducing stormwater runoff to surface waters and/or the storm sewer system by the installing pervious pavements and/or other measures to promote sheet flow of stormwater.

- a) The City will ensure the proper disposal of street sweepings in accordance with DEEP policies, guidance and regulations. Sweepings shall not be discharged back into the storm drain system and/or surface waters.
- b) The City will document results of its sweeping program in its annual reports including: a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected, and method(s) of reuse or disposal.

The Operations Division of Public Works is responsible for street sweeping in the City. Streets are swept daily during the week from March through November (weather permitting). The program is designed to remove the heavy accumulation of salt, debris, and litter that has collected over the winter months and

to help keep the City's 625 lane miles of streets clean. Street sweeping is performed by route and cleaned a minimum frequency of once per year. Any miscellaneous debris spills on City streets are cleaned and swept up immediately. In the fall, streets in high leaf areas are swept to prevent leaves entering catch basins and waterways.

In addition to route sweeping, the SoNo Business District and Wall Street Business District (high sediment accumulation areas) are swept weekly from April thru November (3 AM to 8 AM) of each year. The business district streets are posted and cars are towed prior to weekly sweeping.

6.10 Develop and Implement Catch Basin Cleaning Program

The City will conduct routine cleaning of all catch basins and track catch basin inspection observations to the maximum extent possible. Utilizing information compiled through its inventory of catch basins, operational staff and public complaints, the City will optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- a) Inspect all City owned catch basins at least once.
- b) Prioritize inspection and maintenance for City-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). The City will clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
- c) Establish a schedule such that the frequency of routine cleaning will ensure that no catch basin at any time will be more than fifty (50) percent full. A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
- d) If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, the City will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. The City will describe any actions taken in its Annual Report.
- e) The City will detail its plan for optimizing catch basin cleaning, inspection plans, and its schedule for gathering information to develop the optimization plan in its first annual report. Documentation shall include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. The City will keep a log of catch basins cleaned or inspected.
- f) The City will report in each Annual Report the total number of catch basins, number inspected, number cleaned, the total volume or mass of material removed from all catch basins and, if practicable, the volume or mass of material removed from each catch basin draining to water quality limited waters.

The Operations Division of Public Works is responsible for the operation and maintenance of the City's storm drainage system including catch basins and storm drainpipes. The City owns two (2) "vacuum" trucks to clean accumulated materials from storm drainpipes and catch basins.

Any catch basins and/or storm drainpipes through inspection where structural deficiencies are identified are repaired by DPW Construction crews or by a City contractor. Debris collected from catch basins and

storm drainpipes are transported to the City's yard debris site where they are temporarily stored to de-water, screened, and then hauled away for ultimate disposal via the City's disposal agreement.

6.11 Develop and Implement Snow Management Practices

6.11.1 Deicing Material Management

The City will develop and implement standard operating practices for the use, handling, storage, application, and disposal of deicing products such as salt to minimize exposure to stormwater; consider means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety) and consider opportunities for use of alternative materials; for any exterior containers of liquid deicing materials installed after July 1, 2017, the City will provide secondary containment of at least 110% of the largest container or 10% of the total volume of all containers, whichever is larger, without overflow from the containment area.

6.11.2 Snow and Ice Control Practices

The City will implement and refine its standard operating practices regarding its snow and ice control to minimize the discharge of pollutants (while maintaining public safety).

The City will identify and establish goals for the optimization of application rates through the use, where practicable, of automated application equipment (e.g. zero-velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals.

The City will maintain records of the application of its treated rock salt application to document the reduction to meet established goals.

The City will ensure the proper training for deicing applications for municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance.

The City will manage and dispose of snow accumulations in accordance with DEEP's Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots, revised 2/4/11 and as amended (see link at: www.ct.gov/deep/stormwater).

In its Annual Report, The City will document results of its snow removal program including, at a minimum: the type of staff training conducted on application methods and equipment, type(s) of deicing materials used; lane-miles treated; total amount of each deicing material used; type(s) of deicing equipment used; any changes in deicing practices (and the reasons for the change); and snow disposal methods.

The Operations Division of Public Works is responsible for winter operations maintenance in the City and plows 625 lane miles of streets, 22 school and civic parking lots, and removes snow from approximately 60 sidewalk locations. The City owns a municipal salt building for the proper storage of deicing materials. Since 2006, the City has stopped using sand. The City currently utilizes an environmentally friendly rock salt which helps to reduce application rates. Use of deicing materials is monitored by a scale on a front-end loader (outbound salt), electronic spreader controls (to determine pounds applied per lane mile), and trucks are weighed after a storm (inbound salt).

The City has a snow operations standard operating procedure manual which is updated as technologies or practices are improved. This information is used to maximize snow/ice removal and environmentally responsible salt application practices.

Table 6.1 Pollution Prevention / Good Housekeeping Schedule

BMP	Lead department / individual	Implementation Status	Measurable goal
Develop/implement formal employee training program	Public Works Department	Ongoing, started July 2017	Continue annual employee training and continue to evaluate for additional training as necessary.
Implement MS4 property and operations maintenance	Recreation and Parks Department, Public Works Department, and Building Management	Ongoing, started July 2017	Continue property maintenance practices, evaluate annually for any improvements to requirements or enforcement.
Implement coordination with interconnected MS4s	Public Works Department	Ongoing, started July 2017	Continue interconnection coordination with the CTDOT.
Develop/implement program to control other sources of pollutants to MS4	Planning and Zoning, Public Works Department, and Conservation	July 2025	Develop and implement a program to control pollutants from commercial, industrial, municipal, institutional, or other facilities.
Evaluate additional measures for discharges to impaired waters	Planning and Zoning, Public Works Department, Recreation and Parks, and Conservation	July 2025	Evaluate additional measures for discharges to impaired waters.
Track projects that disconnect DCIA	Engineering	July 2024	Create a mechanism to track DCIA disconnections and update annually.
Develop/implement infrastructure repair/rehab program	Department of Public Works	Ongoing, started July 2017	Continue stormwater inspection and repair program.
Develop/implement plan to identify/prioritize retrofit projects	Engineering and WPCA	July 2028	Develop a retrofit project plan to identify DCIA disconnection projects.
Develop/implement street sweeping program	Operations	Ongoing, started July 2017	Continue street sweeping program including annual reporting.
Develop/implement catch basin cleaning program	Operations	Ongoing, started July 2017	Continue catch basin cleaning program including annual reporting.
Develop/implement snow management practices	Operations	Ongoing, started July 2017	Continue snow management practices including annual reporting.



7.0 Outfall Monitoring

The City will monitor and investigate all MS4 outfalls that discharge to impaired waterbodies. Using the outfall inventory developed under the IDDE minimum control measure, the City will identify which outfalls discharge to impaired waters and screen them for the specific impairments.

Once half of all outfalls discharging to impaired waterbodies have been screened, the 6 outfalls contributing the highest level of pollutants will be identified and screened on an annual basis.

Based on the screening results, the City will investigate the drainage areas of outfalls that are contributing to the impairment. The investigations may consider land use or development patterns, business or commercial activities, industrial activities, DCIA, natural contributors, MS4 maintenance issues, residential activities, or anything else potentially contributing to the source of the impairment.

Based on results of the drainage area investigations, the City will implement measures to address sources of the impairments including the specific impaired waters provisions described within the permit control measures.



8.0 Plan Amendments

The City of Norwalk will amend the SMP whenever:

- 1) there is a change which has the potential to cause pollution of the waters of the state; or
- 2) the actions required by the Plan fail to prevent pollution of the waters of the state or fail to otherwise comply with any other provision of this general permit; or
- 3) the Commissioner of Connecticut's Department of Energy & Environmental Protection (CT DEEP) requests modification of the Plan.



9.0 Stormwater Management Plan Signatures

"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."

Chief Elected Official/
Principal Executive Officer

Title

Date

Principal plan preparer

Title

Date



10.0 Stormwater Management Plan Engineering Certification

"I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by Vanessa Valadares for an activity located at or within the City of Norwalk. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of all information described in Section 3(b)(9)(A) of such general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of this general permit. 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."

Cynthia A. Baumann, P.E., CFM, PMP

Name

Principal Engineer

Title

CDM Smith

Company

Date



Appendix A CT DEEP General Permit for the Discharge of Stormwater from Small MS4s





Connecticut
Department of Energy &
Environmental Protection

portal.ct.gov/DEEP

National Pollutant Discharge Elimination System General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

State Permit No: GSM000000
Federal CWA Permit No: CTR030000

Issued Date: September 29, 2023

Effective Date: October 1, 2023

Expiration Date: September 30, 2025

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

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Section 1. Authority

This general permit is issued under the authority of Section 22a-430b of the Connecticut General Statutes.

Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in Sections 22a-423 of the Connecticut General Statutes and Section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

"x-year, 24-hour rainfall event" means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. x=2, 25 or 100), as defined by the National Weather Service in Technical Paper Number 40, "Rainfall Frequency Atlas of the United States," May 1961, and subsequent amendments, or equivalent regional or state rainfall probability information developed therefrom.

"Aquifer protection area" means aquifer protection area as defined in section 22a-354h of the Connecticut General Statutes.

"Best engineering practices" means the design of engineered control measures to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable.

"Best Management Practices (BMP)" means schedules of activities, practices (and prohibitions of practices), structures, vegetation, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the state consistent with state, federal or other equivalent and technically supported guidance. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from material storage.

"Catchment area" means the land area from which stormwater runoff is collected by a permittee's MS4 and discharges through a single outfall to surface water.

"Coastal Jurisdiction Line" means the location of the topographical elevation of the highest predicted tide as defined in Section 22a-359(c) of the Connecticut General Statutes.

"Coastal waters" means coastal waters as defined in Section 22a-93(5) of the Connecticut General Statutes.

"Commissioner" means Commissioner as defined in section 22a-423 of the Connecticut General Statutes.

"Control Measures" means any BMPs or other methods (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the state.

"Department" means the Department of Energy & Environmental Protection.

"Directly Connected Impervious Area (DCIA)" means that impervious area from which stormwater runoff discharges *directly* to waters of the state or *directly* to a storm sewer system that discharges to waters of the state. Impervious areas that discharge through a system designed to retain the

appropriate portion of the Water Quality Volume (pursuant to Section 6(a)(5)(b)(i) or (ii) of this general permit) are not considered DCIA.

"Fresh-tidal wetland" means a tidal wetland located outside of coastal waters.

"Grab sample" means an individual sample collected in less than fifteen minutes.

"Guidelines" means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to Section 22a-328 of the Connecticut General Statutes.

"High Quality Waters" means those waters defined as high quality waters in the Connecticut Water Quality Standards pursuant to Section 22a-426-1(36) of the Regulations of Connecticut State Agencies.

"Illicit Discharge" means any unpermitted discharge to waters of the state that does not consist entirely of stormwater or uncontaminated ground water except those discharges identified in Section 3(a)(2) of this general permit when such non-stormwater discharges are not significant contributors of pollution to a discharge from an identified MS4.

"Impaired water(s)" means those surface waters of the state designated by the Commissioner as impaired pursuant to Section 303(d) of the federal Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report within Categories 4 or 5, including any subdivisions of these categories.

"Individual permit" means a permit issued to a named permittee under Section 22a-430 of the Connecticut General Statutes.

"Inland wetland" means wetlands as that term is defined in Section 22a-38 of the Connecticut General Statutes.

"Low Impact Development" or *"LID"* means a site design strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale treatment practices distributed throughout a site to manage runoff volume and water quality at the source.

"Minimize", for purposes of implementing the minimum control measures in Section 6 of this general permit, means to reduce and/or eliminate to the Maximum Extent Practicable (MEP) as described in Section 5(b).

"Municipal separate storm sewer system" or *"MS4"* means conveyances for stormwater (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality or by any state or federal institution and discharging to surface waters of the state.

"Municipality" means a city, town or borough of the state as defined in section 22a-423 of the Connecticut General Statutes.

"New or Increased Discharge" means new discharge or activity as defined in section 22a-426-8(b)(3) and increased discharge or activity as defined in section 22a-426-8(b)(2), as referenced to the Regulations of Connecticut State Agencies.

"Permittee" means any municipality or any state or federal institution that initiates, creates, originates or maintains a discharge authorized by this general permit and that has filed a registration pursuant to Section 4 of this permit.

"Point Source" means any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged.

"Qualified professional engineer" means a professional engineer who: (1) has, for a minimum of eight (8) years, engaged in the planning and designing of engineered stormwater management systems for (i) municipal separate storm sewer systems and (ii) residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four (4) years in responsible charge of the planning and designing of engineered stormwater management systems for such projects; or (2) is currently certified as a Professional in MS4 Stormwater Compliance as designated by EnviroCert International, Incorporated, or other certifying organization acceptable to the Commissioner, and for a minimum of six (6) years, has engaged in the planning and designing of engineered stormwater management systems for (i) municipal separate storm sewer systems and (ii) residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of two (2) years in responsible charge of the planning and designing of engineered stormwater management systems for such projects; or (3) currently provides engineering services for the Permittee by employ (e.g. Town Engineer) or by contract.

"Registrant" means a municipality or institution which files a registration pursuant to Section 4 of this general permit.

"Redevelopment" means any construction activity (including, but not limited to, clearing and grubbing, grading, excavation, and dewatering) within existing drainage infrastructure or at an existing site to modify or expand or add onto existing buildings or structures, grounds, or infrastructure.

"Registration" means a registration form filed with the Commissioner pursuant to Section 4 of this general permit.

"Retain" means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the Commissioner.

"Runoff reduction practices" means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the first half inch or one inch of rainfall in accordance with Sections 6(a)(5)(B)(i) or (ii), respectively. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapotranspiration.

"Sanitary Sewer Overflow" or "SSO" means a discharge of untreated sanitary wastewater from a municipal sanitary sewer.

"Small MS4" means any municipally-owned or -operated MS4 (as defined above) including all those located partially or entirely within an Urbanized Area that have at least 1,000 residents in the Urbanized Area (as determined by the 2000 or 2010 census) and all state- and federally-operated MS4s (except DOT) and any other MS4s located outside an Urbanized Area as may be designated by the Commissioner. (Note: A list of Small MS4 municipalities is included in Appendix A of this general permit. DOT will be authorized under a separate permit.)

"Standard of care", as used in Section 3(b)(9), means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

"State or Federal Institution" or *"institution"* means any facility (including, but not limited to, state and federal prisons, office complexes, hospitals; university campuses, public housing authorities, schools, or other special districts) consisting of more than one building that is owned by an agency or department of the State of Connecticut (except the Department of Transportation) or a federal agency and has an average daily population of 1,000 people or more.

"Stormwater" means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

"Stormwater Quality Manual" means the Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection in 2004, as amended and maintained at <http://www.ct.gov/deep/stormwaterqualitymanual>.

"Surface water" means those waters as defined in Section 22a-426-1(60) of the Regulations of Connecticut State Agencies.

"Tidal wetland" means a wetland as that term is defined in Section 22a-29(2) of the Connecticut General Statutes.

"Total Maximum Daily Load (TMDL)" means a water quality implementation plan established pursuant to Section 303 of the federal Clean Water Act.

"Urbanized Area (UA)" means the areas of the State of Connecticut so defined by the U.S. Census Bureau for the 2000 or 2010 census.

"Water Quality Standards or Classifications" means those water quality standards or classifications contained in Sections 22a-426-1 through 22a-426-9, inclusive, of the Regulations of Connecticut State Agencies and the Classification Maps adopted pursuant to Section 22a-426 of the Connecticut General Statutes, which together constitute the Connecticut Water Quality Standards., as may be amended.

"Water Quality Volume" or "WQV" means the volume of runoff generated by one inch of rainfall on a site as defined in the Connecticut Stormwater Quality Manual.

Section 3. Authorization Under This General Permit

(a) Eligible Activities

- (1) This general permit authorizes the discharge of stormwater from or associated with a Small MS4, provided the requirements of subsection (b) of this section are satisfied and the activity is conducted in accordance with the conditions listed in Section 5 of this general permit to the Maximum Extent Practicable (as defined in Section 5(b)).
- (2) This permit authorizes the following non-stormwater discharges provided: the permittee controls such non-stormwater discharges to the Maximum Extent Practicable (MEP), as required by this general permit; such non-stormwater discharges do not contribute to a violation of water quality standards; and such non-stormwater discharges are documented in the Stormwater Management Plan and are not significant contributors of pollutants to any identified MS4:
 - uncontaminated ground water discharges including, but not limited to, pumped ground water, foundation drains, water from crawl space pumps and footing drains;
 - irrigation water including, but not limited to, landscape irrigation and lawn watering runoff;
 - residual street wash water associated with sweeping;
 - discharges or flows from firefighting activities (except training); and
 - naturally occurring discharges such as rising ground waters, uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)), springs, diverted stream flows and flows from riparian habitats and wetlands.
- (3) Any non-stormwater discharge to the MS4 authorized by a permit issued pursuant to Section 22a-430 or 22a-430b of the Connecticut General Statutes is also authorized under this general permit.

(b) Requirements for Authorization

This general permit authorizes the activity listed in the "Eligible Activities" section (Section 3(a)) of this general permit provided:

(1) Coastal Management Act

Such activity is consistent with all applicable goals and policies in Section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in Section 22a-93(15) of the Connecticut General Statutes.

(2) Endangered and Threatened Species

Implementation of the permittee's Stormwater Management Plan shall not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species unless otherwise exempted by Federal statute.

(3) Aquifer Protection Areas

Such activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the Connecticut General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

(4) Discharge to POTW

The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(5) Discharge to Groundwater

The stormwater is *not* discharged entirely to groundwater, meaning a stormwater discharge to a surface water will not occur up to a 100-year, 24-hour rainfall event.

(6) New or Increased Discharges to High Quality Waters

On or before thirty (30) days prior to the commencement of a new or increased discharge to a High Quality Waters from its MS4, the permittee must document compliance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards, as amended. Before commencing any new or increased discharge, the permittee shall identify in its Stormwater Management Plan ("Plan"), the control measures it will implement to ensure compliance with anti-degradation provisions and the terms of this Permit. At a minimum, the permittee shall evaluate and implement to the Maximum Extent Practicable practices which will prevent the discharge of the Water Quality Volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.

(7) New or Increased Discharges to Impaired Waters

There shall be no increased discharges from the MS4 to impaired waters listed in categories 5 or 4b of the most recent Connecticut Integrated Water Quality Report of waters listed pursuant to Clean Water Act section 303(d) and 305(b) unless the permittee demonstrates that there is no net increase in loading by the MS4 to the impaired water of the pollutant(s) for which the waterbody is impaired. The permittee may demonstrate no net increase by either:

- (A) Documenting that the pollutant(s) for which the waterbody is impaired is not present in the MS4's discharge and retain documentation of this finding with the Plan; or
- (B) Documenting that the total load of the pollutant(s) of concern from the MS4 to any impaired portion of the receiving water will not increase as a result of the activity and retain documentation of this finding in the Plan. Compliance with the requirements for Runoff Reduction and Low Impact Development measures for new development and redevelopment in Sections 6(a)(5)(A) and (B) shall be considered as demonstrating no net increase. Requirements for discharges to impaired waters are included in Section 6(k) of this general permit.

(8) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals principally responsible for preparing the registration submits to the Commissioner a written certification which, at a minimum, complies with the following requirements:

- (A) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of such general permit, (ii) the Stormwater Management Plan, and (iii) any plans and specifications and any Department approvals regarding such Stormwater Management Plan;
- (B) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in section 3(b)(8)(A) of this general permit, made an affirmative determination to: (i) comply with the terms and conditions of this general permit; (ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Management Plan; (iii) properly implement and maintain the elements of the Stormwater Management Plan; and (iv) properly operate and maintain all stormwater management measures and systems in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;
- (C) Such registrant and any other individual or individuals responsible for preparing the registration certifies to the following statement:

"I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, submitted to the Commissioner by [INSERT NAME OF REGISTRANT] for an activity located at or within [NAME OF MUNICIPALITY OR ADDRESS OF THE REGISTERED ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been created, initiated or maintained and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes, as amended by Public Act 12-172. I also understand that knowingly making any false statement made in the submitted information and 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."

(9) Stormwater Management Plan Certification

As part of the registration for this general permit, the registrant submits to the Commissioner a written certification by a qualified professional engineer who has reviewed the Stormwater Management Plan (Plan) in accordance with the following requirements:

(A) The qualified professional engineer has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit: (i) all registration information provided in accordance with Section 4(c)(2) of such general permit, (ii) the Stormwater Management Plan, and (iii) all non-engineered and engineered stormwater management measures and systems, including any plans and specifications and any Department approvals regarding such stormwater management measures and systems.

(B) Affirmative Determination

A qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(b)(9)(A) of this general permit and on best engineering practices, that the Plan and control measures therein are adequate to assure that the activity authorized under this general permit will comply with the terms and conditions of such general permit and all non-engineered and engineered stormwater management measures and systems: (i) have been designed in accordance with best engineering practices; (ii) will function properly as designed; (iii) are adequate to ensure compliance with the terms and conditions of this general permit; and (iv) will protect the waters of the state from pollution.

(C) The qualified professional engineer, as specified in section 3(b)(9)(A), above, shall certify to the following statement:

"I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by [INSERT NAME OF REGISTRANT] for an activity located at or within [NAME OF MUNICIPALITY OR ADDRESS OF THE REGISTERED ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of all information described in Section 3(b)(9)(A) of such general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of this general permit. 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."

(D) Nothing in this subsection shall be construed to authorize or require a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the Connecticut General Statutes without such license.

(c) Registration

For permittees authorized under the previous general permit (effective July 1, 2017), a new registration is not required.

(d) Geographic Area

This general permit applies throughout the State of Connecticut.

(e) Effective Date and Expiration Date of this General Permit

This general permit is effective October 1, 2023 and expires on September 30, 2025.

(f) Effective Date of Authorization

An activity is authorized by this general permit: on the date the general permit becomes effective; on the date a complete registration meeting the requirements of Section 4(c) is submitted; for registrants that did not register as required by Section 3(c), on the date the authorized activity is initiated; or on another date approved by the Commissioner, whichever is latest

Section 4. Registration Requirements

(a) Who Must File a Registration

Any municipality or state or federal institution that initiates, creates, originates or maintains a discharge of stormwater from or associated with a Small MS4 shall file with the Commissioner a registration form that meets the requirements of this section of this general permit. Such form shall be submitted along with the applicable fee within the timeframes and in the amounts specified in Sections 3(c) and 4(c)(1)(A), respectively.

(b) Scope of Registration

A registrant must register on one registration form by the date indicated in Section 3(c) for all discharges that are operated by the registering municipality or institution. A registrant may not submit more than one registration under this general permit.

(c) Contents of Registration

(1) Fees

(A) The registration fee for a Small MS4 shall be \$625 to be submitted with the registration form.

- (B) The fees for municipalities shall be half of those indicated in subsection (A) above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.
- (C) The registration fee shall be paid electronically or by check or money order payable to the **Department of Energy & Environmental Protection**.
- (D) No activity shall be authorized by this general permit until the registration fee has been paid in full.
- (E) The registration fee is non-refundable.

(2) Registration Form

The registration shall be filed in a form prescribed and provided by the Commissioner (available on the DEEP website) and shall include the following:

- (A) Name of the permittee and the name, title, address, telephone number, permit number (for existing 2004 MS4 permittees) and email address of the chief elected official or principal executive officer.
- (B) Name, address, telephone number, and email address of the primary contact person for the permittee.
- (C) Name, primary contact, address, telephone number, and email address of any consultant(s) or engineer(s) retained by the permittee to prepare the registration,
- (D) Name of receiving stream(s), watershed(s) or waterbody(s) (including waterbody ID number which can be identified at www.cteco.uconn.edu) to which the MS4 discharges and indication of whether or not a receiving stream is listed as an impaired water, with or without a TMDL, and including identification of the impairment in the most recent State of Connecticut Integrated Water Quality Report or identification of the receiving stream as a high quality water by the Commissioner as defined in the Connecticut Water Quality Standards.
- (E) An electronic map or a paper copy of the relevant portion or a full-sized original of a United States Geological Survey (USGS) quadrangle map with a scale of 1:24,000, showing the permittee's boundaries and limits of its separate storm sewer system. If a paper copy of a map is submitted, identify the quadrangle name on the map and be sure to include the name of the permittee.
- (F) Assurance that the Stormwater Management Plan for the MS4 is consistent with the following provisions of state statutes and regulations, as appropriate:
 - (i) For sites within the Coastal Boundary, the permittee must address all applicable goals and policies in Section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in Section 22a-93(15) of the Connecticut General Statutes.
 - (ii) The permittee's Stormwater Management Plan will not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut

General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species.

- (iii) The implementation of the permittee's Stormwater Management Plan for any part of the MS4 located within an aquifer protection area (see Appendix C) as mapped under section 22a-354b of the Connecticut General Statutes will comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes. For any activity regulated pursuant to sections 8(c) and 9(b) of the Aquifer Protection Regulations (section 22a-354i(1)-(10) of the Regulations of Connecticut State Agencies), the Stormwater Management Plan must assure that stormwater run-off generated from the MS4 is managed in a manner so as to prevent pollution of groundwater.
- (iv) The Stormwater Management Plan has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification.
- (v) The Stormwater Management Plan appropriately addresses new or increased discharges to high quality waters, as specified in Section 3(b)(6).
- (vi) The Stormwater Management Plan appropriately addresses new or increased discharges to impaired waters, as specified in Section 3(b)(7).
- (G) For each of the Minimum Control Measures in Section 6(a), the following information shall be included:
 - (i) each Best Management Practice (BMP) to be implemented;
 - (ii) the person(s) responsible for implementing and maintaining each BMP;
 - (iii) the date by which each BMP will be implemented;
 - (iv) the measurable goal(s) by which each BMP will be evaluated.
- (H) Provide an internet address (URL) where the Stormwater Management Plan required by Section 5(b) and the Annual Reports required by Section 6(j) are accessible for public review. Also provide a physical address where a paper copy of the Plan and Annual Reports are available for inspection. If the registrant claims that certain elements of their Plan constitute secure information (pursuant to Section 4(d)(2)) or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act, the registrant shall follow the procedures provided in the registration form instructions for this general permit regarding information subject to FOIA requirements. The process of complying with the FOIA requirements does not exempt the registrant from the registration and Plan preparation deadlines of this general permit.
- (I) The certification of the registrant and of the individual or individuals responsible for actually preparing the registration, in accordance with Section 3(b)(8).

- (J) Certification (pursuant to the requirements and conditions of Section 3(b)(9)) that the Stormwater Management Plan has been reviewed by a qualified professional engineer (as defined in Section 2) licensed in the State of Connecticut.

(d) Availability of Registrations, Stormwater Management Plans and Annual Reports

(1) Registration Availability

Within thirty (30) days of receipt of a registration, the Commissioner shall post on the DEEP website a list of registrations submitted and identify the location where the Stormwater Management Plan is available.

On or before sixty (60) days from the date of posting of a registration by the Commissioner, members of the public may review the registration and submit written comments to the Commissioner.

(2) Stormwater Management Plan Availability

A permittee shall make its Stormwater Management Plan (Plan) available, electronically and at a publicly available location, for public review and comment at least ninety (90) days prior to July 1, 2017. The permittee shall also provide the internet address (URL) where the Plan may be located or an electronic copy to the Commissioner. Within thirty (30) days of receipt of a Stormwater Management Plan (or its URL), the Commissioner shall post on the DEEP website a list of Plans submitted and identify the location where the Plan will be available for review. In addition to the internet address (URL) required as part of the registration (pursuant to Section 4(c)(2)(H)), reasonable efforts to inform the public of this document shall be undertaken by the permittee. The Plan shall be made available at the permittee's main office or other designated municipal or institution office, a local library or other publicly available location for public inspection and copying consistent with the federal and state Freedom of Information Acts. On or before sixty (60) days from the date of the availability of the Plan, members of the public may review the Plan and submit written comments on it to the Commissioner.

If the registrant claims that certain elements of their Plan constitute secure information subject to restrictions related to Homeland Security or other security issues otherwise exempt from the disclosure requirements of the state Freedom of Information Act (section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act, they shall follow the procedures provided in the registration form instructions for this general permit regarding information subject to FOIA requirements. The process of complying with the FOIA requirements does not exempt the registrant from the registration and Plan preparation deadlines in this general permit.

Following the comment period specified above, the final Plan shall remain available for public inspection on-line and a paper copy made available at the location specified above during regular business hours.

(3) Annual Report Availability

At least forty five (45) days prior to submission of each Annual Report to the Department, pursuant to Section 6(j), each permittee shall make available for public review and

comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are *not* submitted to the Department. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying consistent with the federal and state Freedom of Information Acts and at least one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report (pursuant to Section 6(f)), a copy of the final report shall be made available for public inspection during regular business hours.

(e) Where to File a Registration

A registration shall be filed with the Commissioner on forms available through the DEEP website. **For permittees authorized under the previous general permit (effective July 1, 2017), a new registration is not required.**

(f) Additional Information

The Commissioner may require a registrant to submit additional information, which the Commissioner reasonably deems necessary to evaluate the consistency of the subject activity with the requirements for authorization under this general permit.

(g) Additional Notification

For discharges authorized by this general permit to another regulated Small MS4 or to the City of Stamford, a copy of the registration and all attachments thereto shall also be submitted to the owner and operator of that system.

For discharges authorized by this general permit to a DOT separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the DOT upon request.

For discharges within a public drinking water supply watershed or aquifer area, the permittee shall notify the water company of the availability (pursuant to Sections 4(d)(1) and (2), above) of the registration and the Plan described in subsection 5(b) of this general permit or the registration and Plan shall be submitted to the water company upon request.

For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the registration and the Plan described in 5(b) of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee upon request.

(h) Action by Commissioner

- (1) The Commissioner may require that a permittee obtain an individual permit for any discharge authorized by this permit in accordance with Section 22a-430b of the Connecticut General Statutes.
- (2) The Commissioner may reject without prejudice a registration if he or she determines that it does not satisfy the registration requirements (Section 4(c)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the "Fees" section (Section 4(c)(1)) of this general permit.
- (3) The Commissioner may disapprove a registration if he or she finds that the subject activity is inconsistent with the "Requirements for Authorization" section (Section 3(b)) of this general permit, or for any other reason provided by law.
- (4) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject activity must be authorized by an individual permit.
- (5) Disapproval of a registration shall be in writing.

Section 5. Requirements of this General Permit

The permittee shall at all times continue to meet the requirements for authorization set forth in Section 3 of this general permit. In addition, a permittee shall ensure that authorized activities are conducted in accordance with the following conditions:

(a) Conditions Applicable for Certain Discharges

- (1) If the permittee initiates, creates, or originates a discharge of stormwater which is located less than 500 feet from a tidal wetland that is not a fresh-tidal wetland, such discharge shall flow through a system designed to retain the Water Quality Volume, as defined in Section 2.
- (2) If the permittee wishes to initiate, create, or originate a discharge of stormwater below the coastal jurisdiction line into coastal, tidal, or navigable waters for which a permit is required under the Structures and Dredging Act in accordance with Section 22a-361(a) of the Connecticut General Statutes or into tidal wetlands for which a permit is required under the Tidal Wetlands Act in accordance with Section 22a-32 of the Connecticut General Statutes, the municipality shall obtain such permit(s) from the Commissioner prior to initiating, creating or originating such discharge.
- (3) There shall be no distinctly visible floating scum, oil or other matter contained in the stormwater discharge. Excluded from this are naturally occurring substances such as leaves and twigs provided no person has placed such substances in or near the discharge.
- (4) The stormwater discharge shall not result in pollution which may cause or contribute to acute or chronic toxicity to aquatic life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.
- (5) The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.

- (6) Any new stormwater discharge to high quality waters (as identified by the Commissioner consistent with the Water Quality Standards) shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards manual. At a minimum, the permittee shall evaluate and implement to the Maximum Extent Practicable practices which will prevent the discharge of the Water Quality Volume to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.
- (7) Any stormwater discharge to the waters identified in Appendix D shall be managed for the Stormwater Pollutant of Concern identified in the appendix consistent with the requirements in Section 6 of this permit.

(b) *Stormwater Management Plan*

The permittee shall develop, implement, and enforce a stormwater management plan designed to reduce the discharge of pollutants from the Small MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the federal Clean Water Act. Maximum Extent Practicable (MEP) is a technology-based standard established by Congress in the Clean Water Act Section 402(p)(3)(B)(iii). Since no precise definition of MEP exists, it allows for maximum flexibility on the part of MS4 operators as they develop their programs. (40CFR 122.2, See also: Stormwater Phase II Compliance Assistance Guide EPA 833-R-00-002, March 2000). When trying to reduce pollutants to the MEP, there must be a serious attempt to comply, and practical solutions may not be lightly rejected. Factors such as the conditions of receiving waters, specific local concerns, MS4 size, climate, implementation schedules, current ability to finance the program, beneficial uses of receiving water, hydrology, geology, and capacity to perform operation and maintenance should be considered in determining whether permittee has complied with this general permit to the Maximum Extent Practicable.

Under this program, the permittee shall prepare a Stormwater Management Plan pursuant to Section 6 of this general permit, which plan must be completed by such time as specified in Section 4(d)(2) of this general permit. The permittee shall continue to implement the Stormwater Management Plan and all Minimum Control Measures required by this general permit throughout the entire term of the general permit. The permittee shall continue to provide for adequate staffing and economic resources for such implementation throughout the entire term of the general permit. If at any time the Commissioner finds that the Plan is not adequate to protect the waters of the state from pollution, the Commissioner may terminate authorization under this permit and require the permittee to submit an individual permit application.

Failure to implement all elements of the Stormwater Management Plan to the MEP constitutes a violation of this permit.

Section 6. Development of Stormwater Management Plan (Plan)

The Plan shall address the Minimum Control Measures as indicated in this section. Section 6(a) contains the requirements for Small MS4s. These measures shall be implemented throughout the boundaries of the municipality or institution except as otherwise indicated in this section.

(a) Minimum Control Measures

For each Minimum Control Measure, the permittee shall: define appropriate BMPs; designate a person(s) and job title responsible for each BMP; define a time line for implementation of each BMP; where appropriate, identify the location, including the address and latitude and longitude, for each BMP; and define measurable goals for each BMP. The Minimum Control Measures in the Plan include, but are not limited to:

(1) Public education and outreach

The goals of this minimum control measure are:

- To raise awareness that polluted stormwater runoff is the most significant source of water quality problems;
- To motivate residents to use Best Management Practices (BMPs) which reduce polluted stormwater runoff; and
- To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

(A) Implement a public education program to distribute educational materials to the permittee's community (i.e. residents, business and commerce, students, staff, contractors, etc.) or conduct equivalent outreach activities about the sources and impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff. The education program shall include, but not be limited to, information on management of pet waste, application of fertilizers, herbicides, and pesticides, impervious cover and impacts of illicit discharges and improper disposal of waste into the MS4. The form and content of the education program will be dependent on the audience and identified areas of concern for each MS4. Permittees may join other permittees in the same region to develop and implement a public education program. Educational information may be developed and/or acquired from other permittees, governmental agencies, community and non-governmental organizations, councils of government, academia, and/or environmental advocacy organizations. Outreach resources will be available from the DEEP stormwater webpage at www.ct.gov/deep/stormwater. Information may be disseminated with flyers, brochures, door hangers, television public service announcements, and/or web based tools. Each Annual Report shall summarize the types, sources, number of, and methods by which materials disseminated.

- (i) Permittees previously authorized by the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems issued on January 9, 2004 (existing 2004 MS4 permittees) shall begin implementation of this measure within the first year following July 1, 2017, and continue until permit expiration. Permittees shall utilize the materials developed under the 2004 MS4 permit and update or modify as necessary to acquire and/or develop the content of the outreach materials for this general permit.
- (ii) Permittees not previously authorized by the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems issued on January 9, 2004 (new MS4 permittees) shall begin implementation of this measure within the second year following July 1, 2017, and continue until permit expiration.

Permittees shall utilize the one year period following July 1, 2017 to acquire and/or develop the content of the outreach materials.

- (B) To implement the public education and outreach program, the permittee shall develop or acquire current educational material from DEEP and other sources that identifies the pollutants (such as pathogens/bacteria, nitrogen, phosphorus, sediments, metals, oils & greases) associated with stormwater discharges, the potential sources of the pollutants, the environmental impacts of these pollutants, and related pollution reduction practices.

- (C) Additional measures for discharges to waters associated with a Stormwater Pollutant of Concern

These measures may be implemented solely by the permittee or as part of a collaborative regional or statewide program to address the issue. However, the permittee retains sole responsibility for compliance with this section. The method of implementation shall be indicated in the permittee's Plan.

- (i) For waters for which **Phosphorus** is a Stormwater Pollutant of Concern, educational materials shall be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:

- a. Septic systems
- b. Fertilizer use
- c. Grass clippings and leaves management
- d. Detergent use
- e. Discharge of sediment (to which Phosphorus binds) from Construction sites
- f. Other erosive surfaces

- (ii) For waters for which **Nitrogen** is a Stormwater Pollutant of Concern, educational materials shall be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:

- a. Septic systems
- b. Fertilizer use
- c. Grass clippings and leaves management
- d. Discharge of sediment (to which Nitrogen binds) from Construction sites
- e. Other erosive surfaces

- (iii) For waters for which **Bacteria** is a Stormwater Pollutant of Concern, educational materials shall be specifically tailored and targeted to educate on the sources, impacts, and available pollution reduction practices from the following:

- a. Septic systems
- b. Sanitary cross connections
- c. Waterfowl
- d. Pet waste
- e. Manure piles associated with livestock and horses

- (iv) For waters for which **Mercury** is a Stormwater Pollutant of Concern, educational materials shall be specifically tailored and targeted to educate on the sources,

impacts and available recycling programs for elemental mercury and mercury-containing items such as:

- a. Thermometers
- b. Thermostats
- c. Fluorescent lights
- d. Button cell batteries

(D) Suggested Strategies.

- (i) Target specific populations: Each permittee is encouraged to direct such outreach program and/or materials at specific populations. Such target populations may include, for example, school age populations, farming populations, and urban populations. Sample educational material for each Stormwater Pollutant of Concern noted above will be made available by DEEP.
- (ii) Partner with local organizations: Permittees may wish to include in its outreach efforts various local organizations which may be able to assist in helping to spread the stormwater message.

(2) Public Involvement/Participation

The permittee shall provide opportunities to engage their community to participate in the review and implementation of the permittee's Plan. The goal of this minimum control measure is to involve the community in both the planning and implementation process of improving water quality. Public participation is beneficial to the success of a municipal stormwater management program because it allows for a broader public support, additional expertise, and a conduit to other programs. Community members are also more likely to apply these lessons/BMPs at home if they are part of the process.

- (A) Publish a public notice on the permittee's website, through an email or mailing list, if the permittee maintains one, or in a newspaper with general circulation in the area to inform the public of the Plan and the Annual Report required by Section 6(j) of this permit and to solicit comments on the Plan and Annual Report. The notice shall provide a contact name (with phone number, address, and email) to whom the public can send comments and a publicly accessible location (such as the MS4's main office or other designated municipal office, a local library or other central publicly available location) and/or URL where the Plan and Annual Report are available for public review. The public notice shall allow for a 30 day comment period, at a minimum. Municipalities and institutions shall publish this public notice annually no later than January 31.
- (B) The permittee is encouraged to enlist local organizations to help implement the elements of their Plan. However, the permittee retains sole responsibility for permit compliance.
- (C) No requirements in addition to those specified in subsections (A)-(B), above, are specified for discharges to waters impaired for Phosphorus, Nitrogen, Bacteria, or Mercury.

(3) Illicit discharge detection and elimination.

Within one (1) year of July, 1 2017 for existing 2004 MS4 permittees and within two (2) years of July 1, 2017 for new MS4 permittees, the permittee shall develop a written Illicit Discharge Detection and Elimination (IDDE) program designed to: provide the legal authority to prohibit and eliminate illicit discharges (as defined in Section 2 except for those discharges noted in the Section 3(a)(2) of this permit) to the MS4; find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges. Failure to implement all elements of the IDDE program to the MEP constitutes a violation of this permit.

(A) IDDE Program Elements

- (i) The permittee shall, at a minimum, implement the IDDE program elements in this section and the IDDE protocol in Appendix B within the Urbanized Area and those catchment areas of the MS4 with either Directly Connected Impervious Area (DCIA) of greater than 11% (as identified on maps available at www.ct.gov/deep/municipalstormwater) or which discharge to impaired waters ("priority" areas). The permittee is encouraged to develop a prioritizing strategy to identify areas outside these identified areas to further implement these IDDE measures. This prioritizing strategy should utilize the prioritizing elements included in Section (A)(7)(c) of Appendix B.
- (ii) Illicit discharges to the MS4 by any person are prohibited, and any such discharges are not authorized by the general permit, are unlawful, and remain unlawful until they are eliminated. The permittee shall prohibit all illicit discharges from entering its MS4. Upon detection, the permittee shall eliminate illicit discharges as soon as possible and require the immediate cessation of such discharges upon confirmation of responsible parties in accordance with its enforceable legal authorities established pursuant to subsection (B) below. Where elimination of an illicit discharge within sixty (60) days of its confirmation is not possible, the permittee shall establish a schedule for its elimination not to exceed 180 days (six (6) months). The permittee shall immediately commence actions necessary for elimination. The permittee shall diligently pursue elimination of all illicit discharges. In the interim, the permittee shall take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.
- (iii) The permittee shall develop a program for citizen reporting of illicit discharges. This may include maintaining a website, email list or mailing program that provides clear instructions for the public describing how citizens can submit an illicit discharge report. The reporting program shall provide an email address and/or a phone number or other means for submissions. The permittee shall affirmatively investigate and eliminate any illicit discharges reported to it by any citizen or organization, provided that such report incorporates at least a time and location of an observed discharge. The permittee shall commence inspection of such a reported outfall or manhole promptly after receiving such a report, and incorporate those reported outfalls into its IDDE program subject to all provisions of this subsection (3) and of Appendix B. All citizen reports and the responds to those reports shall be included in the Annual Report.

- (iv) The permittee shall implement outfall screening and an illicit discharge detection protocol pursuant to **Appendix B** to identify, prioritize, and investigate separate storm sewer catchments for suspected illicit discharges of pollutants.
 - (v) The permittee shall maintain a record of illicit discharge abatement activities including, at a minimum: location (identified with an address or latitude and longitude), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party(ies). This information shall be included in the permittee's Annual Report pursuant to the Section 6(j) of this permit.
 - (vi) Timelines – permittees shall implement IDDE program elements in accordance with the schedules included in this section and in Appendix B.
- (B) Establish the necessary and enforceable legal authority by statute, ordinance, rules and regulations, permit, easement, contract, order or any other means, to eliminate illicit discharges.
- (i) The legal authority shall:
 - a. prohibit illicit discharges to its storm sewer system and require removal of such discharges consistent with subsection (3)(A), above; and
 - b. control the discharge of spills and prohibit the dumping or disposal of materials including, but not limited to, residential, industrial and commercial wastes, trash, used motor vehicle fluids, pesticides, fertilizers, food preparation waste, leaf litter, grass clippings, and animal wastes into its MS4; and
 - c. authorize fines or penalties and/or recoup costs incurred by the permittee from anyone creating an illicit discharge or spilling or dumping as specified in subsection (3)(A), above. For state and federal institutions, where this provision may conflict with existing rules, regulations, policies, chain of command or other circumstances, alternate provisions for enforcement may be utilized.
 - d. provide any additional legal authorities specified in Section (A)(7)(a) of Appendix B.
 - (ii) Existing 2004 MS4 permittees must establish and implement this legal authority within one year of July 1, 2017.
 - (iii) New MS4 permittees must establish and implement this legal authority on or before two (2) years of July 1, 2017.
- (C) Develop a list (spreadsheet or database) and map or series of maps at a minimum scale of 1"=2000' and maximum scale of 1"=100' showing all stormwater discharges from a pipe or conduit located within and owned or operated by the municipality or institution and all interconnections with other MS4s. The map(s) should, if possible, be developed in a GIS format.

(i) The list and map(s) shall include for each discharge:

- a. Type, material, size, and location (identified with a latitude and longitude) of conveyance, outfall or channelized flow (e.g. 24" concrete pipe);
- b. the name, water body ID and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
- c. if the outfall does not discharge directly to a named waterbody, the name and water body ID of the nearest named waterbody to which the outfall eventually discharges;
- d. the name of the watershed, including the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located; and
- e. the spreadsheet or database should, if possible, be prepared in a format compatible with Microsoft Excel.

(ii) For existing 2004 MS4 permittees, this list and mapping must be completed within two (2) years of July 1, 2017.

(iii) For new MS4 permittees, this list and mapping must commence by July 1, 2017 and be completed within three (3) years of July 1, 2017. The entirety of the municipal or institutional MS4 shall be mapped by June 30, 2022.

(D) For waters for which **Phosphorus, Nitrogen, or Bacteria** is a Stormwater Pollutant of Concern:

- (i) To address septic system failures, the IDDE program shall give highest priority for the IDDE program in areas with the highest potential to discharge bacteria, phosphorus, and nitrogen to the MS4. Such areas shall be identified based on assessment of the following criteria: historic on-site sanitary system failures, proximity to bacteria impaired waters, low infiltrative soils, and shallow groundwater. Consultation with local or state health officials is strongly encouraged. The Annual Report shall include a summary of the program, the number of areas identified with failing systems, actions taken by the permittee to respond to and address the failures, and the anticipated pollutant reduction.

(E) No requirements in addition to those specified in subsections (A) - (C) above exist for discharges to waters for which **Mercury** is a Stormwater Pollutant of Concern.

(4) Construction Site Stormwater Runoff Control

The permittee shall implement and enforce a program to control stormwater discharges (to its MS4) associated with land disturbance or development (including re-development) activities from sites (as defined in the Department's General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities) with one acre or more of soil disturbance, whether considered individually or collectively as part of a larger common plan. Such program shall include the following elements:

(A) Legal Authority

- (i) The permittee shall establish an ordinance, bylaw, regulation, standard condition of approval or other appropriate legal authority that requires:
 - a. developers, construction site operators, or contractors to maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended, the Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by the DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b;
 - b. the implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by the municipality or institution;
 - c. the permittee to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs or institutional requirements related to the management of the permittee's MS4. Specifically, inspections shall be conducted, where allowed, to inventory the number of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive drainage from the permittee's MS4;
 - d. the owner of a site seeking development approval from the permittee to provide and comply with a long term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive discharge from the permittee's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
 - e. the permittee to control through interagency or inter-jurisdictional agreements, the contribution of pollutants between the permittee's MS4 and MS4s owned or operated by others.
- (ii) For existing 2004 MS4 permittees, within two (2) year from the start of the permittee's first fiscal year that begins after July 1, 2017, the permittee shall implement, upgrade (if necessary) and enforce its land use regulations to meet the requirements of subsections 4(A)(i)a. – e. above.
- (iii) For new MS4 permittees, within three (3) years from the start of the permittee's first fiscal year that begins after July 1, 2017, the permittee shall implement, upgrade (if necessary) and enforce its land use regulations (for municipalities) or its construction requirements (for institutions) to meet the requirements of Sections 4(A)(i)a. – e. above.

(B) Interdepartmental Coordination

- (i) The permittee will develop and implement a plan outlining how all municipal or institutional departments and boards with jurisdiction over the review, permitting, or approval of land disturbance and development projects within the MS4 will coordinate their functions with one another.
- (ii) All municipalities and institutions shall implement this measure as of July 1, 2017.

(C) Site Review and Inspection

- (i) The permittee will conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality.
- (ii) The permittee will conduct site inspection(s) and enforcement to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures.
- (iii) All municipalities and institutions shall implement this measure as of July 1, 2017.

(D) Public Involvement

- (i) The permittee will implement a procedure for receipt and consideration of information submitted by the public concerning proposed and ongoing land disturbance and development activities.
- (ii) All municipalities and institutions shall implement this procedure as of July 1, 2017.

(E) State Permit Notification

- (i) The permittee will implement a procedure for notifying developers (working in a municipality) or contractors (working for a municipality or an institution) of their potential obligation to obtain authorization under the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities ("construction general permit") if their development or redevelopment project disturbs one or more acres of land, either individually or collectively, as part of a larger common plan, and results in a point source discharge to the surface waters of the state directly or through the permittee's MS4. The notification shall include a provision informing the developer/contractor of their obligation to provide a copy of the Storm Water Pollution Control Plan (required by the construction general permit) to the permittee upon request.
- (ii) All municipalities and institutions shall implement this procedure as of July 1, 2017.

- (F) For construction discharges to waters for which **Phosphorus, Nitrogen, Bacteria, or Mercury** is a Stormwater Pollutant of Concern no additional measures are included in this section except as may be required by Sections 3(b)(7) or 6(k).

(5) Post-construction stormwater management in new development or redevelopment

(A) Legal Authority

- (i) The permittee shall establish an ordinance, bylaw, regulation, standard condition of approval or other appropriate legal authority that requires, to the MEP, that a developer or contractor seeking the permittee's approval shall consider the use of low impact development ("LID") and runoff reduction site planning and development practices prior to the consideration of other practices in the permittee's land use regulations, guidance or construction project requirements to meet or exceed those LID and runoff reduction practices identified in the Stormwater Quality Manual. Such legal authority shall include the following standards: 1) for redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, retain on-site half the water quality volume for the site, or 2) for new development and redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site, or 3) an alternate retention/treatment standard as outlined in subsections 5(B)(i)-(ii) below. All permittees shall identify and, where appropriate, reduce or eliminate existing local regulatory barriers to implementing LID and runoff reduction practices to the MEP. These may include site planning requirements, zoning regulations, street design regulations, or infrastructure specifications that address minimal dimensional criteria for the creation of roadways, parking lots, and other DCIA. If such barriers cannot be eliminated within the timeframe dictated by subsections 5(A)(ii) and (iii), below, the permittee shall provide in the Annual Report(s) required by Section 6(f) a justification and a revised schedule for implementation.

In establishing the legal authority, the permittee shall consider the following watershed protection elements to manage the impacts of stormwater on receiving waters, except where noted:

- a. Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within each municipality by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of Low Impact Development or green infrastructure practices.
- b. Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed functions. These areas may include, but are not limited to; riparian corridors, headwaters, floodplains and wetlands.
- c. Implement stormwater management practices that prevent or reduce thermal impacts to streams, including requiring vegetated buffers along waterways, and disconnecting discharges to surface waters from impervious surfaces such as parking lots.
- d. Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges.

- e. Implement standards to protect trees, and other vegetation with important evapotranspirative qualities.
 - f. Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.
- (ii) For existing 2004 MS4 permittees, the permittee shall consider the elements of this section during regular reviews and implement this requirement no later than four (4) years after July 1, 2017.
 - (iii) For new permittees, the permittee shall consider the elements of this section during regular reviews and implement this requirement no later than five (5) years after July 1, 2017.

(B) Runoff Reduction/Low Impact Development ("LID") Measures

Pursuant to the requirements of subsection 5(A)(i) above, the permittee shall require the party responsible (i.e. a developer within a municipal boundary or a developer/contractor with the institution) for development and redevelopment projects within its MS4 to:

- (i) For development or redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, retain on-site half the water quality volume for the site. In cases where this entire amount cannot be retained, the permittee shall require the responsible party to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment, to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice, shall be required for sediment, floatables and nutrients for the volume above that which can be retained up to the water quality volume. In cases where the runoff reduction requirement cannot be met, the developer/contractor shall submit, for the permittee's review, a report detailing factors limiting the capability of achieving this goal. In such cases, the permittee shall approve a stormwater mitigation project on another site proposed by the developer/contractor or approve a fee to be deposited into a dedicated account of the permittee for use by the permittee to fund in whole or in part the retrofit of one or more existing DCIA. Unless such fee is established by DEEP, the fee proposed by the developer/contractor should be set in amount approved by the permittee as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site. The report shall include: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the maximum extent achievable; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume. In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of the right of way: (1) for projects that may be unable to comply with the full retention standard, the alternate retention and treatment

provisions may also be applied as specified above, or (2) for projects that will not increase the DCIA within a given watershed, the developer/contractor shall implement the additional stormwater treatment measures referenced above, but will not be required to retain half of the water quality volume.

- (ii) For all new development and for redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g. brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the permittee's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. In such cases, the permittee shall approve a stormwater mitigation project on another site proposed by the developer/contractor or approve a fee to be deposited into a dedicated account of the permittee for use by the permittee to fund in whole or in part the retrofit of one or more existing DCIA. Unless such fee is established by DEEP, the fee proposed by the developer/contractor should be set in amount approved by the permittee as calculated based on an estimate of the cost necessary to implement the retrofit to achieve a similar amount of runoff reduction to the amount by which the actual amount of runoff reduced fails to achieve the requirement to retain the water quality volume for the site. Any such treatment shall otherwise be designed, installed and maintained consistent with the Stormwater Quality Manual. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.
- (iii) Consider the limitation of turf areas to those areas necessary to construct buildings, utilities, stormwater management measures, parking, access ways, reasonable lawn areas and contouring necessary to prevent future site erosion,
- (iv) Maintain consistency with the Connecticut Stormwater Quality Manual, or if inconsistent, provide an explanation of why consistency is not feasible or practicable and information that the proposed plan of development is adequately protective.
- (v) In areas served by on-site sewage disposal (septic) systems, the permittee should coordinate with the state or local health official, as appropriate, to confirm that any infiltration measures are appropriately sized, located and constructed in a manner consistent with the Connecticut Department of Public Health's *Technical Standards for Subsurface Sewage Disposal Systems*, Section 19-13-B100A of the Regulations of Connecticut State Agencies and/or DEEP requirements for on-site sewage disposal systems.
- (vi) For existing 2004 MS4 permittees, the permittee shall implement this requirement within two (2) years after July 1, 2017.

- (vii) For new MS4 permittees, the permittee shall implement this requirement within three (3) years from the start of the permittee's first fiscal year that begins after July 1, 2017.

(C) Directly Connected Impervious Area

Using mapping provided by the Commissioner (available at www.ct.gov/deep/municipalstormwater) or other equivalent source, the permittee shall calculate the Directly Connected Impervious Area (DCIA) that contributes stormwater runoff to each of its MS4 outfalls (i.e. catchment area) within three (3) years of July 1, 2017. The DCIA calculation shall be based upon the criteria available through the DEEP stormwater webpage (www.ct.gov/deep/municipalstormwater) and the precise methodology and assumptions shall be described in the permittee's Plan and initial annual report. Each annual report shall document the progress of this task until its completion. The Permittee shall revise its DCIA estimate as development, redevelopment, or retrofit projects effectively add or remove DCIA to its MS4.

(D) Long Term Maintenance

- (i) The permittee shall implement a maintenance plan for ensuring the long-term effectiveness of retention or detention ponds located in the Urbanized Area and those catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters and which discharge to, or receive stormwater from, its MS4. This shall include such ponds that are owned by the permittee and all privately-owned ponds where the permittee maintains an easement or other legal authority pursuant to Section 6(a)(4)(A)(i) of this permit. At a minimum, the permittee shall annually inspect all such retention or detention ponds and remove accumulated sediment to restore full solids capture design capacity where found to be in excess of 50% design capacity.
- (ii) The permittee shall implement a maintenance plan for ensuring the long-term effectiveness of stormwater treatment structures or measures (such as swirl concentrators, oil/grit separators, water quality wetlands or swales, etc.) installed within the Urbanized Area and those catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters. This shall include structures that are owned by the permittee or those for which the permittee maintains an easement or other legal authority pursuant to Section 6(a)(4)(A)(i) of this permit. At a minimum, the permittee shall annually inspect all such structures/measures and remove accumulated pollutants (such as sediment, oils, leaves, litter, etc.) to restore full solids capture design capacity where found to be in excess of 50% design capacity.
- (iii) For existing 2004 MS4 permittees, the permittee shall implement this requirement within two (2) years of July 1, 2017.
- (iv) For new MS4 permittees, the permittee shall implement this requirement within three (3) years of July 1, 2017.

(E) Additional measures for discharges to impaired waters (with or without a TMDL)

- (i) For waters for which **Nitrogen, Phosphorus or Bacteria** is a Stormwater Pollutant of Concern:

To address erosion and sediment problems noted during the course of conducting the inspections required by subsection D above and identified by other means, the permittee shall develop, fund, implement, and prioritize these problems under the Retrofit program specified in Section 6(a)(6)(B) to correct the problem(s) in a specific timeframe and to establish short term and long term maintenance. Each annual report shall include which problem areas were retrofitted, the cost of the retrofit, and the anticipated pollutant reduction.

- (ii) No requirements in addition to those specified in subsections (A)-(D) above exist for discharges to waters for which **Mercury** is a Stormwater Pollutant of Concern.

(6) Pollution Prevention/Good Housekeeping

The permittee shall implement an operations and maintenance program for permittee-owned or -operated MS4s that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned or -operated MS4s.

(A) Employee Training

The existing 2004 MS4 permittees shall continue a formal employee training program to increase awareness of water quality related issues in management of its MS4. New MS4 permittees shall develop this program within two (2) years of July 1, 2017. In addition to providing key staff with topical training regarding standard operating procedures and other activities necessary to comply with the provisions of this permit, the training program shall include establishing an awareness of the general goals and objectives of the Plan; identification and reporting of illicit discharges and improper disposal; and spill response protocols and respective responsibilities of involved personnel.

(B) Infrastructure Repair, Rehabilitation and Retrofit

- (i) The permittee shall repair and rehabilitate its MS4 infrastructure in a timely manner to reduce or eliminate the discharge of pollutants from its MS4 to receiving waters. Priority for repair and rehabilitation shall be based on the following:
 - a. For existing 2004 MS4 permittees, the permittee shall utilize the information developed pursuant to Section 6(a)(6)(A)(v) of the 2004 MS4 permit to fund and implement a program for repairing, retrofitting or upgrading the conveyances, structures and outfalls of the MS4. This program shall be updated based on new information on outfalls discharging pollutants, impaired waters, inspection observations or observations made during outfall mapping pursuant to Section 6(a)(3)(C) of this permit.
 - b. For new MS4 permittees, the permittee shall, within the first three (3) years following July 1, 2017, develop a program to identify conveyances, structures and outfalls in need of repairing, retrofitting or upgrading utilizing new and existing information on outfalls discharging pollutants, impaired waters,

inspection observations or observations made during outfall mapping pursuant to Section 6(a)(3)(C) of this permit.

(ii) Retrofit Program

The goal of the retrofit program is to “disconnect” existing Directly Connected Impervious Areas (DCIA). An area of DCIA is considered disconnected when the appropriate portion of the Water Quality Volume has been retained in accordance with the requirements of Section 6(a)(5)(B)(i) or (ii) of this general permit. This may be accomplished through retrofits or redevelopment projects (public or private) that utilize Low Impact Development (LID) and runoff reduction measures or any other means by which stormwater is infiltrated into the ground or reused for other purposes without a surface or storm sewer discharge. A redevelopment project, as that term is used here and in Section 6(a)(5)(B)(i) and (ii), is one that modifies an existing developed site for the purpose of enhancing, expanding or otherwise modifying its function or purpose. A retrofit project is one that modifies an existing developed site for the primary purpose of disconnecting DCIA. The DCIA calculation performed pursuant to Section 6(a)(5)(C) shall serve as the baseline for the retrofit program required in this section.

a. DCIA Disconnection Tracking

Beginning on July 1, 2017, the permittee shall track on an annual basis the total acreage of DCIA that is disconnected as a result of redevelopment or retrofit projects within the MS4. Tracking the disconnection of DCIA means documenting within a given redevelopment or retrofit project the amount of existing DCIA that is modified such that it is disconnected. This tracking may include disconnections of DCIA from redevelopment or retrofit projects implemented as early as five (5) years prior to July 1, 2017. Any redevelopment or retrofit of an existing developed site, whether public (municipal, state or federal) or private (residential, commercial or industrial) shall be included in this tracking.

Tracking the disconnection of DCIA does not apply for sites that were previously undeveloped as there were no existing impervious surfaces on those sites. The total amount of DCIA that has been disconnected during a given year shall be reported in that year’s Annual Report.

b. Retrofit Planning

On or before the end of third year after July 1, 2017, the permittee shall develop a plan to implement retrofit projects to meet the goals of this section. The permittee shall identify and prioritize sites that may be suitable for retrofit. Considerations for prioritizing retrofit projects may include outfall catchment areas that discharge to impaired waters, areas within the Urbanized Area of the MS4 or catchment areas with greater than eleven percent (11%) DCIA. The permittee shall select from the list of prioritized projects those that it will implement to meet the goals in subparagraph (c) below. In the Annual Report for the third year of this general permit, the permittee shall report on its identification and prioritization process, the selection of the projects to be

implemented, the rationale for the selection of those projects and the total DCIA to be disconnected upon implementation of the projects.

c. Retrofit Schedule

By June 30, 2022, the permittee shall have commenced the implementation of the retrofit projects identified in subparagraph (b), above, with a goal of disconnecting one percent (1%) per year of the permittee's DCIA for the fourth and fifth years of this general permit, or a total of 2%, to the MEP. The two percent (2%) goal may be achieved by compiling the total disconnected DCIA tracked pursuant to subparagraph (a), above, or the retrofit projects designated in subparagraph (b), above, or a combination of the two.

If the two percent (2%) goal will not be met, the permittee shall include in the Annual Report a discussion of what percentage of DCIA will actually be disconnected and why the remainder of the two percent (2%) goal could not be achieved based on the MEP standard outlined in Section 5(b). The permittee shall also provide in the Annual Report for the fifth year of this permit for continuation of the retrofit program and continue such program with a goal to disconnect one percent (1%) of DCIA in each year thereafter.

(C) MS4 Property and Operations Maintenance

Permittee-owned or -operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of the permittee shall be maintained so as to minimize the discharge of pollutants to its MS4. Such maintenance shall include, but not be limited to:

(i) Parks and open space

The permittee shall optimize the application of fertilizers by municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance. Optimization practices considered may include conducting soil testing and analysis to determine soil phosphorus levels, the reduction or elimination of fertilizers, reduction of usage by adhering to the manufacturers' instructions, and use of alternative fertilizers forms (i.e. products with reduced, slow-releasing, or insoluble phosphorus compositions). Additional optimization practices to be considered include: proper storage and application practices (i.e. avoid impervious surfaces), application schedule (i.e. appropriate season or month) and timing (i.e. coordinated with climatic conditions to minimize runoff potential); develop and implement standard operating practices for the handling, storage, application, and disposal of pesticides and herbicides in compliance with applicable state and federal laws; evaluate lawn maintenance and landscaping activities to promote water quality (protective practices include reduced mowing frequencies, proper disposal of lawn clippings, and use of alternative landscaping materials like drought resistant and native plantings); and establish procedures for management of trash containers at parks (scheduled cleanings; sufficient number).

The permittee shall establish practices for the proper disposal of grass clippings and leaves at permittee-owned lands. Clippings shall be composted or otherwise

appropriately disposed. Clippings should not enter the MS4 system or waters of the state.

(ii) Pet waste management

The permittee shall identify locations within its community/institution where inappropriate pet waste management practices are immediately apparent and pose a threat to receiving water quality due to proximity and potential for direct conveyance of waste to its storm system and waters. In such areas, the permittee shall, implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators). In permittee-owned recreational areas where dog walking is allowed, the permittee shall install educational signage, pet waste baggies, and disposal receptacles (or require carry-out). The permittee shall document its efforts in its annual reports. The permittee should consider including information regarding the scope and extent of its education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

(iii) Waterfowl management

Identify lands where waterfowl congregate and feeding by the public or institutional staff/residents occurs. To raise awareness regarding the water quality impacts, the permittee shall install signage or use other targeted techniques to educate the public about the detrimental impacts of feeding waterfowl (including the resulting feces deposition) and discourage such feeding practices. The permittee shall also implement practices that discourage the undesirable congregation of waterfowl in these areas, or otherwise isolate the direct drainage from these areas away from its storm system and waters.

(iv) Buildings and facilities (schools under the jurisdiction of the permittee, town offices, police and fire stations, pools, parking garages and other permittee-owned or operated buildings or utilities)

Evaluate the use, storage, and disposal of both petroleum and non-petroleum products; ensure, through employee training, that those responsible for handling these products know proper procedures; ensure that Spill Prevention Plans are in place, if applicable, and coordinate with the fire department as necessary; develop management procedures for dumpsters and other waste management equipment; sweep parking lots and keep areas surrounding the facilities clean to minimize runoff of pollutants; and ensure that all interior building floor drains are not connected to the MS4. This permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted.

(v) Vehicles and Equipment

Establish procedures for the storage of permittee-owned or -operated vehicles; require vehicles with fluid leaks to be stored indoors or in contained areas until repaired; evaluate fueling areas owned by the permittee and used by permittee-owned or -operated vehicles and if possible, place fueling areas under cover in order to minimize exposure; establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters.

This permit does not authorize such discharges; wastewaters from interior floor drains must be appropriately permitted.

(vi) Leaf Management

The permittee shall establish and implement procedures to minimize or prevent the deposition of leaves in catch basins, streets, parking lots, driveways, sidewalks or other paved surfaces that discharge to the MS4. Such procedures shall also apply to leaves collected by the permittee.

(D) Street, Parking & MS4 Maintenance

The permittee shall implement a program to provide for regular inspection and maintenance of permittee-owned or -operated streets, parking areas and other MS4 infrastructure.

(i) Sweeping

- a. Establish and implement procedures for sweeping permittee-owned or -operated streets and parking lots. All streets and parking lots within the Urbanized Area of the MS4, and outside the Urbanized Area within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, shall be inspected, swept and/or cleaned (as necessary) with a minimum frequency of once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.). The procedures shall also include more frequent inspections, cleaning and/or sweeping of targeted areas determined by the permittee to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. The permittee shall identify such potential pollutant sources based upon surface inspections, catch basin cleaning or inspection results, land use, winter road deicing and/or sand application, impaired or TMDL waters or other relevant factors as determined by the permittee. If wet dust suppression is conducted, the use of water should be minimized such that a discharge of excess water to surface waters and/or the storm sewer system does not occur.

For streets and parking lots outside the Urbanized Area and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters, including any rural uncurbed streets and parking lots with no catch basins, the permittee shall either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping and/or cleaning plan within one (1) year of July 1, 2017, and submit such plan with its year one Annual Report. For new and redeveloped municipal parking lots, evaluate options from reducing stormwater runoff to surface waters and/or the storm sewer system by the installing pervious pavements and/or other measures to promote sheet flow of stormwater.

- b. Ensure the proper disposal of street sweepings in accordance with Department policies, guidance and regulations. Sweepings shall not be discharged back into the storm drain system and/or surface waters.

- c. In its Annual Report, the permittee shall document results of its sweeping program including, at a minimum: a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected, and method(s) of reuse or disposal. The permittee shall also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

(ii) Catch Basin Cleaning

The Permittee shall conduct routine cleaning of all catch basins. The Permittee shall track catch basin inspection observations. Utilizing information compiled through its inventory of catch basins, operational staff and public complaints, the Permittee shall optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- a. Inspect all permittee-owned catch basins within the Urbanized Area of the MS4 and outside the Urbanized Area within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters at least once by the end of the third year following July 1, 2017. Catch basins outside the Urbanized Area and outside the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters shall be inspected by the end of the fifth year following July 1, 2017.
- b. Prioritize inspection and maintenance for permittee-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
- c. Establish a schedule that the frequency of routine cleaning will ensure that no catch basin at any time will be more than fifty (50) percent full.
- d. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, the permittee shall document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. The permittee shall describe any actions taken in its Annual Report.
- e. For the purposes of this subsection, an excessive sediment or debris loading is a catch basin sump more than fifty (50) percent full. A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
- f. The permittee shall document in the Plan and in the first Annual Report its plan for optimizing catch basin cleaning, inspection plans, or its schedule for gathering information to develop the optimization plan. Documentation shall include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. The permittee shall keep a log of catch basins cleaned or inspected.

- g. The permittee shall report in each Annual Report the total number of catch basins, number inspected, number cleaned, the total volume or mass of material removed from all catch basins and, if practicable, the volume or mass of material removed from each catch basin draining to water quality limited waters.

(E) Snow Management Practices

(i) Deicing Material Management

Develop and implement standard operating practices for the use, handling, storage, application, and disposal of deicing products such as salt and sand to minimize exposure to stormwater; consider means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety) and consider opportunities for use of alternative materials; for any exterior containers of liquid deicing materials installed after July 1, 2017, provide secondary containment of at least 110% of the largest container or 10% of the total volume of all containers, whichever is larger, without overflow from the containment area.

(ii) Snow and Ice Control Practices

The permittee shall implement and refine its standard operating practices regarding its snow and ice control to minimize the discharge of sand, anti-icing or de-icing chemicals and other pollutants (while maintaining public safety). The permittee shall establish goals for the optimization of sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g. zero-velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals. The permittee shall maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals. The permittee shall ensure the proper training for deicing applications for municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance.

The permittee shall manage and dispose of snow accumulations in accordance with DEEP's Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots, revised 2/4/11 and as amended (see link at: www.ct.gov/deep/stormwater). In its Annual Report, the permittee shall document results of its snow removal program including, at a minimum: the type of staff training conducted on application methods and equipment, type(s) of deicing materials used; lane-miles treated; total amount of each deicing material used; type(s) of deicing equipment used; any changes in deicing practices (and the reasons for the change); and snow disposal methods.

(F) Interconnected MS4s

As part of interagency agreements established pursuant to Section 6(c)(3) of this permit, the Permittee shall coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of

potential pollutants from the storm sewer systems, contributing land use areas and stormwater control measures in the respective MS4s. This same coordination shall be conducted regarding operation and maintenance procedures utilized in the respective systems.

(G) Sources contributing pollutants to the MS4

The permittee shall develop and implement a program to control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by permit issued pursuant to Sections 22a-430 or 22a-430b of the Connecticut General Statutes.

(H) Additional measures for discharges to impaired waters (with or without a TMDL)

(i) For waters for which **Nitrogen or Phosphorus** is a Stormwater Pollutant of Concern:

On Permittee-owned or -operated lands, implement a turf management practices and procedures policy which includes, but is not limited to, procedures for proper fertilizer application and the planting of native plant materials to lessen the amount of turf area requiring mowing and the application of chemicals. Each Annual Report shall discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.

(ii) For waters for which **Bacteria** is a Stormwater Pollutant of Concern:

On Permittee-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), the permittee shall develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Each Annual Report shall identify problem areas for which a retrofit or source management program were developed, the location of the closest outfall monitored in accordance with Section 6(i), the cost of such retrofit or program, and the anticipated pollutant reduction.

On Permittee-owned or -operated lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Each Annual Report shall discuss the actions taken to implement this program.

(iii) No additional requirements in addition to those specified in subsections (A)-(C) above exist for discharges to waters for which **Mercury** is a Stormwater Pollutant of Concern.

(b) Sharing Responsibility

(1) Qualifying Local Program

The permittee may satisfy the requirement to implement a BMP for a Minimum Control Measure by having a third party implement the BMP.

When a permittee is relying on a third party to implement one or more BMP(s), the permittee shall note that fact in the registration and Annual Report required in Section 6(j), below. If the third party fails to implement the BMP(s), the permittee remains responsible for its implementation.

(Note: For example, if a local watershed organization performs an annual "river clean-up", this event may be used to satisfy a BMP for the Public Participation and/or the Pollution Prevention and Good Housekeeping Minimum Control Measure.)

(2) Qualifying State or Federal Program

If a BMP or Minimum Control Measure is the responsibility of a third party under another NPDES stormwater permit, the permittee is not required to include such BMP or Minimum Control Measure in its Stormwater Management Plan. The permittee shall reference this qualifying program in their Stormwater Management Plan. However, the permittee is not responsible for its implementation if the third party fails to perform. The permittee shall periodically confirm that the third party is still implementing this measure. If the third party fails to implement the measure, the Stormwater Management Plan may be modified to address the measure, if necessary.

In the case of a permitted municipal industrial activity that is covered by the General Permit for the Discharge of Stormwater Associated with Industrial Activity, the permittee may reference the activity's Stormwater Pollution Prevention Plan to address a portion of the permittee's Stormwater Management Plan.

(Note: For example, the permittee may reference a regional mall's requirement to perform sweeping and catch basin cleaning under the General Permit for the Discharge of Stormwater Associated with Commercial Activity. This third party action may be used to address a portion of the permittee's requirement under the Good Housekeeping and Pollution Prevention Minimum Control Measure.)

(3) Coordination of Permit Responsibilities

Where a portion of the separate storm sewer system within a municipality is owned or otherwise the responsibility of another municipality, institution or a state or federal agency the entities shall coordinate the development and implementation of their respective Stormwater Management Plans to address all the elements of Section 6. A description of the respective responsibilities for these elements shall be included in the Stormwater Management Plan for each municipality.

(Note: For example, a storm sewer system within a municipality may be operated and maintained by the DOT. In cases such as these, the two entities shall coordinate their Stormwater Management Plans to address the Minimum Control Measures, particularly at the interface between the two storm sewer systems.)

(4) Co-Permitting

When a municipal Regulated Small MS4s is co-located within the corporate boundary of another Regulated Small MS4, the two may, at their discretion, submit a single registration and share a single Plan as co-permittees. In such a case, the Plan shall clearly indicate which co-permittee is responsible for implementing each of the control measures and other elements of the Plan.

(Note: This provision currently applies only to the City of Groton within the Town of Groton and the Borough of Stonington within the Town of Stonington.)

(c) *Proper Operation and Maintenance*

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control, including related appurtenances, which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee when necessary to achieve compliance with this permit.

(d) *Signature Requirements*

The Plan shall be signed by the chief elected official or principal executive officer, as those terms are defined in Section 22a-430-3(b)(2) of the Regulations of Connecticut State Agencies. The Plan shall be retained by the chief elected official or principal executive officer and copies retained by MS4 officials or employees responsible for implementation of the Plan.

(e) *Plan Review Fee*

When submitting a Stormwater Management Plan as requested by the Commissioner pursuant to Section 6(f), below, the permittee shall submit a plan review fee of \$375.

(f) *Keeping Plans Current*

The permittee shall amend the Plan whenever; (1) there is a change which has the potential to cause pollution of the waters of the state; or (2) the actions required by the Plan fail to prevent pollution of the waters of the state or fail to otherwise comply with any other provision of this general permit; or (3) the Commissioner requests modification of the Plan. The amended Plan shall be completed and all actions required by such Plan shall be completed within a time period determined by the Commissioner.

The Commissioner may notify the permittee in writing at any time that the Plan does not meet one or more of the requirements of this general permit. Within thirty (30) days of such notification, unless otherwise specified by the Commissioner in writing, the permittee shall respond to the Commissioner indicating how they plan to modify the Plan to address these requirements. Within ninety (90) days of this response or within one hundred twenty (120) days of the original notification, whichever is less, unless otherwise specified by the Commissioner in writing, the permittee shall then revise the Plan, perform all actions required by the revised Plan, and shall certify to the Commissioner that the requested changes have been made and implemented. The permittee shall provide such information as the Commissioner requires to evaluate the Plan and its implementation. If at any time the Commissioner finds that

the Plan is not adequate to protect the waters of the state from pollution, the Commissioner may terminate authorization under this permit and require the permittee to submit an individual permit application.

(g) Failure to Prepare or Amend Plan

In no event shall failure to complete or update a Plan in accordance with Sections 5(b) and 6 of this general permit relieve a permittee of responsibility to implement actions required to protect the waters of the state and to comply with all conditions of this general permit.

(h) Plan Review Certification

A copy of the Plan review certification made in accordance with Section 3(b)(9) shall be maintained with the Plan.

(i) Monitoring Requirements

All permittees shall comply with the screening and monitoring requirements in this subsection.

(1) Impaired Waters Outfall Investigation and Monitoring

Regulated Small MS4s that discharge to impaired waters, as identified in Section 6(k) below, must create an inventory of all outfalls that discharge to impaired waters utilizing the list and mapping prepared pursuant to Section 6(a)(3)(C). The permittee shall then screen these outfalls for the pollutant identified as the pollutant of concern for the impairment in accordance with the following procedures. If the permittee has wet weather sampling data for an outfall pursuant to their sampling conducted under the 2004 MS4 permit or other appropriate wet weather sampling, they may use that data for their outfall screening and will not be required to screen that outfall under this general permit.

(A) Outfall Screening for Phosphorus and Nitrogen

The permittee shall screen outfalls from the MS4 identified in Section 6(a)(3)(C) that discharge to impaired waters for which phosphorus or nitrogen is the pollutant of concern. The permittee may take a sample at the outfall during any rain event that results in a discharge from the outfall in accordance with subsection (2), below. This screening shall be conducted for all such outfalls at least once during the term of this general permit in accordance with subparagraphs (i) and (ii) below.

(i) Nitrogen Screening

The permittee may use a portable nitrogen meter to take a field reading during the wet weather discharge. If the nitrogen reading exceeds the following threshold, the outfall shall be identified for follow-up investigation pursuant to subsection (D) below.

Total Nitrogen > 2.5 mg/l

(ii) Phosphorus Screening

The permittee may use a portable phosphorus meter to take a field reading during the wet weather discharge. If the phosphorus reading exceeds the following threshold, the outfall shall be identified for follow-up investigation pursuant to subsection (D) below.

Total Phosphorus > 0.3 mg/l

(B) Outfall Screening for Bacteria

The permittee shall screen outfalls from the MS4 that discharge to impaired waters for which bacteria is the pollutant of concern. The permittee may take a sample at the outfall during any rain event that results in a discharge from the outfall in accordance with subsection (2), below. The sample shall be analyzed for the following:

- E. coli and Total Coliform (col/100ml) (for discharges to Class AA, A and B surface waters)
- Fecal coliform and Enterococci (col/100ml) (for discharges to Class SA and SB surface waters)

The outfall shall be identified for follow-up investigation pursuant to subsection (D) below if any of the following conditions apply:

- E. coli >235 col/100ml for swimming areas and >410 col/100ml for all others, or
- Total Coliform >500 col/100ml, or
- Fecal coliform >31 col/100ml for Class SA and >260 col/100ml for Class SB, or
- Enterococci >104 col/100ml for swimming areas and >500 col/100ml for all others.

If the permittee can document that bacteria levels at an outfall that exceed these levels are solely the result of natural sources of bacteria, they are not required to conduct a follow-up investigation for that outfall. Natural sources may include wildlife or runoff from undeveloped wooded areas but do not include pet waste or waterfowl congregating at parks, ponds or other attractive nuisance areas.

(C) Outfall Screening for Other Pollutants of Concern

The permittee shall screen outfalls from the MS4 identified in Section 6(a)(3)(C) that discharge to impaired waters for which pollutants other than phosphorus, nitrogen or bacteria are listed as the pollutant of concern. The permittee shall take a sample at the outfall and in-stream immediately upstream or otherwise outside the influence of the outfall. The sample may be taken during any rain event that results in a discharge from the outfall in accordance with subsection (2), below. These samples shall be analyzed for turbidity. The permittee may use a field turbidity meter for these analyses. If the

outfall sample is more than 5 NTU greater than the in-stream sample, the outfall shall be identified for follow-up investigation pursuant to subsection (D) below.

(D) Follow-up Investigations

The permittee shall conduct follow-up investigations for the drainage areas associated with the outfalls identified as potentially contributing to an impairment as a result of the analyses conducted pursuant to subsections (A) – (C), above.

(i) Drainage Area Investigation

The permittee shall investigate activities within the drainage area contributing to each outfall identified for follow-up investigation pursuant to subsections (A) – (C), above. This investigation shall include factors potentially associated with the cause of the related stream impairment. Such factors may include: land use or development patterns; business or commercial activities; industrial activities; DCIA; natural contributors; potential MS4 maintenance issues; residential activities; and any other activities identified by the permittee as potentially contributing to the related impairment.

(ii) Control Measure Implementation

In each outfall drainage area identified for follow-up investigation pursuant to subsections (A) – (C), above, the permittee shall implement a BMP program focusing on the impaired waters provisions of each of the Control Measures in Section 6(a) of this general permit and on the findings of the drainage area investigation in subparagraph (i), above.

(iii) Prioritized Outfall Monitoring

Once outfall screening has been completed for at least half of the outfalls identified pursuant to this section, the permittee shall utilize the screening results to select six (6) of the highest contributors of any of the pollutants of concern. These six outfalls shall be sampled annually for the appropriate pollutant of concern in accordance with the schedule in subsection (E), below. If more than one pollutant of concern is identified for any monitored outfall (i.e. more than one impairment), all of these pollutants shall be monitored. If fewer than six outfalls were identified for follow-up investigation, all of these outfalls shall be monitored, but no more than six.

(E) Schedule

(i) Impaired Waters Discharge Mapping

Inventory and mapping of discharges to impaired waters prepared pursuant to this section shall be completed within two (2) years from July 1, 2017 for existing 2004 MS4 permittees and within three (3) years from July 1, 2017 for new MS4 permittees.

(ii) Outfall Screening

Outfall screening pursuant to subsections (A) – (C) shall begin within one (1) year of July 1, 2017 for existing 2004 MS4 permittees and two (2) years for new MS4 permittees. At least fifty percent (50%) of these outfalls shall be screened no later than the end of the third year following July 1, 2017 for existing 2004 MS4 permittees and no later than the end of the fourth year for new MS4 permittees. All such outfalls shall be screened by June 30, 2022.

(iii) Follow-up Investigations

The permittee shall commence follow-up investigations identified pursuant to subsection (D), above, no later than two (2) years following July 1, 2017 for existing 2004 MS4 permittees and three (3) years for new MS4 permittees.

(iv) Prioritized Outfall Monitoring

The permittee shall commence annual monitoring of the six outfalls identified pursuant to subsection (D)(iii), above, no later than beginning of the fourth year following July 1, 2017 for existing 2004 MS4 permittees and no later than the beginning of the fifth year for new MS4 permittees.

(F) Reporting

The permittee shall report on the progress of their impaired waters investigation and monitoring program in their Annual Report beginning in the second year following July 1, 2017. The report shall include a listing of the outfalls screened during the year, the number of outfalls identified for follow-up investigation, the progress of drainage area investigations, a description of the control measure implementation for the different impairments, identification of the six outfalls to be monitored, and the results of the prioritized outfall monitoring.

(2) Stormwater Monitoring Procedures

(A) Wet Weather Outfall Monitoring

Samples shall be collected from discharges resulting from any rain storm that produces a discharge from the outfall(s) being monitored and that occurs at least 48 hours after any previous rain storm that produced a discharge from the outfall. Runoff events resulting from snow or ice melt alone cannot be used to meet these monitoring requirements. However, monitoring may be conducted during a rain event that may include insignificant amounts of snow or ice melt. Monitoring shall consist of a single grab sample taken within the first six (6) hours of discharge from the outfall.

(B) Rain Event Information

The following information shall be collected for the rain events during which monitoring is conducted:

- (i) The date, temperature, time of the start of the discharge, time of sampling, and magnitude (in inches) of the rain event sampled.

- (ii) The duration between the rain event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) rain event.

(C) Test Procedures

Unless otherwise specified in this permit, all pollutant parameters shall be tested according to methods prescribed in Title 40, CFR, Part 136 (1990). Laboratory analyses must be consistent with Connecticut Reasonable Confidence Protocols.

(j) Reporting & Record Keeping Requirements

- (1) The permittee shall keep records required by this permit for at least 5 years following its expiration or longer if requested by the Commissioner in writing. Such records, including the Stormwater Management Plan, shall be available to the public at reasonable times during regular business hours.

(2) Annual Report

By April 1 of each year, the permittee shall submit an Annual Report for the preceding calendar year electronically to the Department. The DEEP MS4 stormwater webpage (www.ct.gov/deep/municipalstormwater) will provide guidance on Annual Report submittal. The Annual Report must be in Microsoft Word®, Adobe Acrobat® or other format acceptable to the Commissioner. In the event that electronic submission is not available or possible, please contact the Stormwater Section at (860) 424-3025.

The report shall include:

- (A) The Annual Report review fee is \$375.00.

- (i) The fees for municipalities shall be half of those indicated above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.

- (B) A written discussion of the status of compliance with this general permit including, but not limited to:

- (i) a listing and brief description (including, where appropriate, the address or latitude and longitude) of all BMPs within each Minimum Control Measure;
 - (ii) any reporting requirements enumerated in the controls measures sections 6(a) and its subsections;
 - (iii) an implementation schedule for each BMP and an indication of whether or not the BMP or any portion of the BMP was scheduled to be implemented during the year covered by the Annual Report;
 - (iv) the status of implementation for each BMP scheduled to be completely or partially implemented during the year covered by the Annual Report, including an assessment of the appropriateness of the BMP and progress towards achieving the implementation dates and measurable goals for that BMP;

- (v) for any portion of a BMP implementation scheduled for the year covered by the Annual Report that was *not* completed as scheduled, a discussion of the circumstances and reasons for non-implementation, a modified implementation schedule, and, if necessary, a modified or alternate BMP to replace the BMP not implemented including the rationale for such modification or alternate BMP;
 - (vi) the overall status of each of the six categories of the Minimum Control Measures and a discussion of the effectiveness of each category in achieving its goals;
 - (vii) a discussion of any changes to personnel responsible for the Plan or BMP implementation;
 - (viii) a description of any new BMPs added to the Plan during the year including a description of the BMP, the reason or rationale for adding the BMP, the timeline for implementation, the party responsible for implementation and the measurable goal for the BMP and, where appropriate, the location for each BMP, including the address and latitude and longitude;
 - (ix) a discussion of the progress and status of the MS4's IDDE program (see Section 6(a)(3)) including outfall screening, mapping, drainage area evaluation and prioritization, illicit discharge tracking activities, IDDP field monitoring results, number and type of illicit discharges detected, and number of illicit discharges eliminated;
 - (x) a discussion of measures included in the Plan for the control of discharges to impaired waters (see Section 6(k) below) including a list of BMPs in the Minimum Control Measures that are targeted for such discharges, progress in implementing these measures, any evaluation of the effectiveness of these measures in meeting the goals of the Plan's impaired waters program, and any new or modified BMPs to be added to the Plan to improve its effectiveness;
 - (xi) a discussion of the MS4's stormwater monitoring program describing the status of monitoring for the year of the report, the overall status of the monitoring program, a summary of the findings, any significant observations regarding the results, any modifications to the Plan as a result of the monitoring results; and
 - (xii) a discussion of any planned BMP implementation in the coming year, including a discussion of any new or modified BMPs planned for future implementation.
- (C) All monitoring data collected and analyzed pursuant to Section 6(i).
- (D) All other information collected and analyzed, including data collected under the Illicit Discharge Detection Protocol (Appendix B), during the reporting period.

(k) Discharges to Impaired Waters or Water bodies subject to a Pollutant Load Reduction within a TMDL

MS4s that discharge to impaired waters (with or without a TMDL), waters for which nitrogen, phosphorus, bacteria or mercury are stormwater pollutants of concern, or waters which have pollution load reductions specified within a TMDL are required to meet certain criteria identified in this section and other sections of this general permit.

(1) Existing Discharge to an Impaired Water without an Established TMDL

If the permittee discharges to an impaired water without an established TMDL, the permittee must follow:

- (A) For waters for which Phosphorus, Nitrogen, Bacteria, or Mercury are stormwater pollutants of concern, the control measures in Section 6(a) and the screening and monitoring requirements of Section 6(i)(1),
- (B) For all other impairments, implement control measures to reduce the discharge of the pollutant(s) associated with the impairment and follow the requirements of Section 6(i)(1)(C), or as directed by the Commissioner.

(2) Existing Discharge to a Water with an Established TMDL or with a Pollutant Load Reduction specified within the TMDL

If the permittee discharges to a water included in a TMDL, the permittee must follow:

- (A) For waters for which Phosphorus, Nitrogen, Bacteria, or Mercury is a stormwater pollutant of concern, the control measures in Section 6(a) and the screening and monitoring requirements of Section 6(i)(1),
- (B) For all other discharges subject to a pollutant load reduction contained within a TMDLs, implement control measures to be consistent with the Waste Load Allocation in the specific TMDL. The permittee must also conduct the appropriate screening and monitoring in accordance with Section 6(i)(1).
- (C) The permittee shall implement BMPs as necessary to achieve the Waste Load Allocation, Load Allocation or Water Quality Targets specified within the TMDL (see Appendix D).

(3) New Discharge to an Impaired Water without an Established TMDL

If a new discharge to an impaired water without a TMDL is authorized pursuant to the conditions of Section 3(b)(7), the permittee must implement and maintain any control measures or conditions on the site that enabled such authorization, and modify such measures or conditions as necessary to maintain such authorization. The permittee must also maintain compliance with this subsection and Section 6(i) and maintain documentation of these measures and conditions in their Plan.

(4) New Discharge to a Water with an Established TMDL or with a Pollutant Load Reduction specified within the TMDL

If a new discharge to a water with a TMDL or with a pollutant load reduction established within the TMDL is authorized pursuant to the conditions of Section 3(b)(7), the permittee must follow the discharge requirements consistent with the applicable Wasteload Allocations, Load Allocations or Water Quality Targets for that TMDL. The permittee must also conduct the appropriate screening and monitoring in accordance with Section 6(i)(1) and maintain documentation of these measures and conditions in their Plan.

Section 7. Additional Requirements of this General Permit

(a) Regulations of Connecticut State Agencies Incorporated into this General Permit

The permittee shall comply with all laws applicable to the subject discharges, including but not limited to, the following Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein:

(1) Section 22a-430-3:

- Subsection (b) General - subparagraph (1)(D) and subdivisions (2), (3), (4) and (5)
- Subsection (c) Inspection and Entry
- Subsection (d) Effect of a Permit - subdivisions (1) and (4)
- Subsection (e) Duty to Comply
- Subsection (f) Proper Operation and Maintenance
- Subsection (g) Sludge Disposal
- Subsection (h) Duty to Mitigate
- Subsection (i) Facility Modifications, Notification - subdivisions (1) and (4)
- Subsection (j) Monitoring, Records and Report Requirements - subdivisions (1), (6), (7), (8), (9) and (11) (except subparagraphs (9) (A) (2) and (9) (c))
- Subsection (k) Bypass
- Subsection (m) Effluent Limitation Violations
- Subsection (n) Enforcement
- Subsection (p) Spill Prevention and Control
- Subsection (q) Instrumentation, Alarms, Flow Recorders
- Subsection (r) Equalization

(2) Section 22a-430-4

- Subsection (t) Prohibitions
- Subsection (p) Revocation, Denial, Modification
- Appendices

(b) Reliance on Registration

In evaluating the permittee's registration, the Commissioner has relied on information provided by the permittee. If such information proves to be false or incomplete, the permittee's authorization may be suspended or revoked in accordance with law, and the Commissioner may take any other legal action provided by law.

(c) Duty to Correct and Report Violations

Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct and mitigate the

results of such violation and prevent further such violation. The permittee shall report in writing such violation and such corrective action to the Commissioner within five (5) days of the permittee's learning of such violation. Such information shall be filed in accordance with the certification requirements prescribed in Section 7(e) of this general permit.

(d) Duty to Provide Information

If the Commissioner requests any information pertinent to the authorized activity or to compliance with this general permit or with the permittee's authorization under this general permit, the permittee shall provide such information within thirty (30) days of such request. Such information shall be filed in accordance with the certification requirements prescribed in Section 7(e) of this general permit.

(e) Certification of Documents

Any document, including but not limited to any notice, information or report, which is submitted to the Commissioner under this general permit shall be signed by the chief elected official or principal executive officer of the municipality or institution, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"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."

(f) Date of Filing

For purposes of this general permit, the date of filing with the Commissioner of any document is the date such document is received by the Commissioner. The word "day" as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day.

(g) False Statements

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with Section 22a-6, under Section 53a-157b of the Connecticut General Statutes.

(h) Correction of Inaccuracies

Within fifteen days after the date the permittee becomes aware of a change in any information in any material submitted pursuant to this general permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, the permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the Commissioner. Such information shall be filed in accordance with the certification requirements prescribed in Section 7(e) of this general permit.

(i) Other Applicable Law

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

(j) Other Rights

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or activity affected by such general permit. In conducting any activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 8. Commissioner's Powers

(a) Abatement of Violations

The Commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to \$25,000 per violation per day under Chapter 446k of the Connecticut General Statutes, for such violation. The Commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with Sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the Commissioner by law.

(b) General Permit Revocation, Suspension, or Modification

The Commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) Filing of an Individual Application

If the Commissioner notifies a permittee in writing that such permittee shall obtain an individual permit under Section 22a-430 of the Connecticut General Statutes if he wishes to continue lawfully conducting the authorized activity, the permittee shall file an application for an individual permit within thirty (30) days of receiving the Commissioner's notice, or at such other date as the Commissioner may allow. While such application is pending before the Commissioner, the permittee shall comply with the terms and conditions of this general permit and the subject approval of registration. If the Commissioner issues an individual permit to a permittee under this general permit, this general permit, as it applies to such permittee, shall automatically terminate on the date such individual permit is issued. Nothing herein shall affect the Commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: September 29, 2023

Date


Tracy Babbidge
Acting Deputy Commissioner

Appendix A – Small MS4 Municipalities

Connecticut Municipalities with >1,000 People in Urbanized Areas		
Ansonia	Avon	Beacon Falls
Berlin	Bethany	Bethel
Bloomfield	Bolton	Branford
Bridgeport	Bristol	Brookfield
Brooklyn*	Burlington	Canton
Cheshire	Chester	Clinton
Cromwell	Danbury	Darien
Deep River	Derby	Durham
East Granby	East Hartford	East Haven
East Lyme	East Windsor	Easton
Ellington	Enfield	Essex
Fairfield	Farmington	Glastonbury
Granby	Greenwich	Griswold
Groton (City)	Groton (Town)	Guilford
Haddam*	Hamden	Hartford
Hebron	Killingly*	Ledyard
Lisbon	Madison	Manchester
Marlborough	Meriden	Middlebury
Mansfield*	Middlefield	Middletown
Milford	Monroe	Montville
Naugatuck	New Britain	New Canaan
New Fairfield	New Hartford*	New Haven
New London	New Milford	Newington
Newtown	North Branford	North Haven
Norwalk	Norwich	Old Lyme
Old Saybrook	Orange	Oxford
Plainfield*	Plainville	Plymouth
Portland	Prospect	Putnam
Redding	Ridgefield	Rocky Hill
Seymour	Shelton	Simsbury
Somers	South Windsor	Southbury
Southington	Sprague*	Stonington (Town & Borough)
Stratford	Suffield	Thomaston
Thompson	Tolland	Trumbull
Vernon	Wallingford	Waterbury
Waterford	Watertown	West Hartford
West Haven	Westbrook	Weston
Westport	Wethersfield	Wilton
Willington*	Windsor	Windsor Locks
Wolcott	Woodbridge	Woodbury

* Designates New (as of 2017) MS4 Permittees

Appendix B
Illicit Discharge Detection and Elimination (IDDE) Program Protocol

(A) Illicit Discharge Detection and Elimination (IDDE) Program

Objective: The permittee shall implement an IDDE program to systematically find and eliminate sources of non-stormwater discharges to its MS4 and implement procedures to prevent such discharges.

During the development of the new components of the IDDE program required by this permit, permittees previously authorized by the permit issued January 9, 2004 must continue to implement their existing IDDE program required by that permit to detect and eliminate illicit discharges to their MS4.

(1) Definitions and Prohibitions

The permittee shall prohibit illicit discharges and sanitary sewer overflows (SSOs) to its MS4 and require removal of such discharges consistent with subsections (2) and (4), below.

An SSO is a discharge of untreated sanitary wastewater from a municipal sanitary sewer.

An illicit discharge is any discharge to an MS4 that is not composed entirely of stormwater, *except*:

- (a) discharges authorized under a separate NPDES permit that authorize a discharge to the MS4
- (b) non-stormwater discharges allowed by Section 3(a)(2) of this general permit

(2) Elimination of Illicit Discharges

- (a) Upon detection, the permittee shall eliminate illicit discharges as soon as possible and require the immediate cessation of such discharges upon confirmation of responsible parties in accordance with its enforceable legal authorities established pursuant to subsection (B) below. Where elimination of an illicit discharge within sixty (60) days of its confirmation is not possible, the permittee shall establish a schedule for its elimination not to exceed 180 days (six (6) months). The permittee shall immediately commence actions necessary for elimination. The permittee shall diligently pursue elimination of all illicit discharges. In the interim, the permittee shall take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.
- (b) The period between identification and elimination of an illicit discharge is not a grace period. Discharges from an MS4 that are mixed with an illicit discharge are not authorized by this general permit, are unlawful, and remain unlawful until eliminated.

(3) Non-Stormwater Discharges

The permittee may presume that the sources of non-stormwater listed in Section 3(a)(2) of this permit need not be addressed. However, if the permittee identifies any of these sources as significant contributors of pollutants to the MS4, then the permittee shall implement measures to control these sources so they are no longer significant contributors of pollutants, and/or eliminate them entirely, consistent with this appendix.

(4) Sanitary Sewer Overflows

- (a) Upon detection of an SSO the permittee shall eliminate it as expeditiously as possible and take interim mitigation measures to minimize the discharge of pollutants to and from its MS4 until elimination is completed.
- (b) The permittee shall identify all known locations where SSOs have discharged to the MS4 within the previous five years. This shall include SSOs resulting, during dry or wet weather, from inadequate conveyance capacities, or where interconnectivity of the storm and sanitary sewer infrastructure allows for communication of flow between the systems. Within 120 days of July 1, 2017, the permittee shall develop an inventory of all identified SSOs indicating:

- Location (approximate street crossing/address and receiving water, if any);
- A clear statement of whether the discharge entered a surface water directly or entered the MS4;
- Date(s) and time(s) of each known SSO occurrence (i.e. beginning and end of any known discharge);
- Estimated volume(s) of the occurrence;
- Description of the occurrence indicating known or suspected cause(s);
- Mitigation and corrective measures completed with dates implemented; and
- Mitigation and corrective measures planned with implementation schedules.

The permittee shall maintain the inventory as a part of the Plan and update the inventory annually.

- (c) The permittee shall provide written notice to the Commissioner within five (5) days of becoming aware of the SSO occurrence and shall include the information in the updated inventory. The notice shall contain all of the information listed in subsection (b), above.
- (d) The permittee shall include and update the SSO inventory in its annual report, including the status of mitigation and corrective measures implemented by the permittee to address each SSO identified pursuant to this appendix.
- (e) The period between identification and elimination of a discharge from the SSO to the MS4 is not a grace period. Discharges from an MS4 that are mixed with an SSO are not authorized by this general permit, are unlawful and remain unlawful until eliminated.

(5) Outfall/Interconnection Inventory

The permittee shall develop an outfall and interconnection inventory that identifies each outfall and interconnection discharging from the MS4, records its location and condition, and provides a framework for tracking inspections, screenings and other activities under the permittee's IDDE program pursuant to Section 6(a)(3) of this general permit.

- (a) An outfall means a point source as defined by 40 CFR § 122.2 and in Section 2 of this general permit as the point where the MS4 discharges to waters of the state. An outfall does not include open conveyances connecting two separate storm sewers or pipes, tunnels or other conveyances that connect segments of the same stream or other waters of the state and that are used to convey waters of the state. However, it is strongly recommended that a permittee inspect all accessible portions of the system as part of this process. Culverts longer than a simple road

crossing shall be included in the inventory unless the permittee can confirm that they are free of any connections and simply convey waters of the state.

An interconnection means the point where the permittee's MS4 discharges to another MS4 or other storm sewer system, through which the discharge is conveyed to waters of the state or to another storm sewer system and eventually to a water of the state.

- (b) The permittee shall complete its outfall and interconnection inventory in accordance with the timelines in Sections 6(a)(3)(C)(ii) and (iii) and shall include the progress of this inventory in each annual report. The inventory shall be updated annually to include data collected in connection with the dry weather screening under subsection (7(d)), below, and other relevant inspections conducted by the permittee.
- (c) The inventory shall include the following information: unique identifier, receiving water, date of most recent inspection, dimensions, shape, material (concrete, PVC), spatial location (latitude and longitude with a minimum accuracy of +/-30 feet, physical condition and indicators of potential non-stormwater discharges (including presence or evidence of suspect flow and sensory observations such as odor, color, turbidity, floatables, or oil sheen) as of the most recent inspection.

(6) System mapping

The permittee shall develop a revised and more detailed map than was required by the previous permit issued January 9, 2004. This revised map of the MS4 shall include, at a minimum, parts of the MS4 within the Urbanized Area and those catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters ("priority" areas). This map shall be completed within three (3) years of July 1, 2017 for existing 2004 MS4 permittees and by June 30, 2022 for new 2017 MS4 permittees. This permit does not provide additional time for existing 2004 MS4 permittees for completion of the mapping that was required by the previous permit.

- (a) The mapping shall include, at a minimum, a depiction of the permittee's separate storm sewer system in the priority areas described above. The mapping is intended to facilitate the identification of key infrastructure and factors influencing proper system operation, and the potential for illicit sanitary sewer discharges. The map shall include the required infrastructure and water resources information as indicated in subparagraph (i), below, and shall include the information in subparagraph (ii), below, where available. The Commissioner also recommends the inclusion of additional items as indicated in subparagraph (iii), below.

(i) Required mapping elements

- Municipal separate storm sewer system
 - outfalls and receiving waters (required by previous permit)
 - pipes
 - open channel conveyances (swales, ditches, etc.)
 - catch basins
 - manholes
 - interconnections with other MS4s and other storm sewer systems
 - municipally-owned stormwater treatment structures (e.g. detention and retention basins, infiltration systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other proprietary systems)

- Catchment delineations as defined in Section 2 for use in priority rankings required in subsection (7)(c), below, or prioritizing BMP retrofits.
- Waterbodies identified by name and indication of all use impairments as identified on the most recent Integrated Water Quality Report pursuant to Clean Water Act section 303(d) and 305(b).

(ii) Elements required where available

- Municipal sanitary sewer system;
- Municipal combined sewer system, if applicable

(iii) Recommended elements

- Storm sewer material, size and age.
- Sanitary sewer system material, size and age
- Where a municipal sanitary sewer system exists, properties known or suspected to be served by a septic system, especially in high-density urban areas
- Area where the permittee's MS4 has received or could receive flow from septic system discharges (e.g. areas with poor soils, or high ground water elevations unsuitable for conventional subsurface disposal systems)
- Seasonal high water table elevations impacting sanitary alignments
- Topography
- Orthophotography
- Alignments, dates and representation of work completed (with legend) of past illicit discharge investigations (e.g. flow isolation, dye testing, CCTV)
- Locations of suspected, confirmed and corrected illicit discharges (with dates and flow estimates)

(b) The mapping may be produced by hand or through computer-aided methods (e.g. GIS). The required scale and detail of the map shall be appropriate to facilitate a rapid understanding of the system by the permittee and the Commissioner. In addition, the mapping shall serve as a planning tool for the implementation and phasing of the IDDE program and demonstration of the extent of complete and planned investigations and corrections. The permittee shall update the mapping as necessary to reflect newly discovered information and required corrections or modifications.

(c) The permittee shall report on the progress towards the completion of the map required by this permit in each annual report.

(7) Written Illicit Discharge Detection and Elimination Program

The IDDE program shall be recorded in a written document pursuant to Section 6(a)(3) of the general permit. The IDDE program shall include each of the elements described in subsections (a) – (h), below, unless the permittee provides a written explanation within the IDDE program as to why a particular element is not applicable to the permittee.

Notwithstanding the permittee's explanation, the Commissioner may at any time determine that a particular element is in fact applicable to the permittee and require the permittee to add it to the IDDE program. The written IDDE program shall be completed within one (1) year of July 1, 2017 for existing 2004 MS4 permittees and within two (2) years of July 1, 2017 for new MS4 permittees.

The permittee shall implement the IDDE program in accordance with the goals and milestones set forth in subsection (8), below.

(a) Legal Authority

The IDDE program shall provide that the permittee has adequate legal authority to accomplish the following tasks: prohibit illicit discharges; investigate suspected illicit discharges; eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system; and implement appropriate enforcement procedures and actions. Adequate legal authority consists of a currently effective ordinance, by-law, or other regulatory mechanism. For existing 2004 MS4 permittees, the ordinance, by-law, or other regulatory mechanism was a requirement of that permit and was required to be effective by January 8, 2009. These permittees shall update their IDDE legal authority within one year of July 1, 2017. New MS4 permittees must establish this legal authority on or before two (2) years of July 1, 2017. The written IDDE program shall include a reference or citation of the authority the permittee will use to implement all aspects of the IDDE program.

(b) Statement of IDDE Program Responsibilities

The permittee shall establish a written statement that clearly identifies responsibilities with regard to eliminating illicit discharges. The statement shall identify the lead permittee agency(ies), department(s) or personnel responsible for implementing the IDDE Program as well as any other agencies, departments or personnel that may have responsibilities for aspects of the program (e.g. state or local health officials responsible for overseeing septic system construction; sanitary sewer system staff; inspectional services for enforcing plumbing codes; town counsel responsibilities in enforcement actions, institutional support staff etc.). Where multiple departments, agencies or personnel have responsibilities with respect to the IDDE program specific areas of responsibility shall be defined and processes for coordination and data sharing shall be established and documented.

(c) Assessment and Priority Ranking of Catchments

The permittee shall assess and priority rank the catchments, delineated as required by subsection (6)(a), above, in terms of their potential to have illicit discharges and SSOs and the related public health significance. This ranking will determine the priority order for screening of outfalls and interconnections pursuant to subsection (d), below, catchment investigations for evidence of illicit discharges and SSOs pursuant to subsection (e), below, and provides the basis for determining permit milestones pursuant to subsection (8), below.

(i) The permittee shall classify each catchment into one of the following categories:

- Excluded catchments: Catchments with no potential for illicit discharges may be excluded from the IDDE program. This category is limited to roadway drainage in undeveloped areas with no dwellings and no sanitary sewers; drainage for athletic fields, parks or undeveloped green space and associated parking without services; cross-country drainage alignments (that neither cross nor are in proximity to sanitary sewer alignments) through undeveloped land.
- Problem Catchments: Catchments with known or suspected contributions of illicit discharges based on existing information shall be designated as Problem Catchments. This shall include any catchments where previous outfall/interconnection screening indicates sewer input based on olfactory/visual evidence or sampling results (ammonia

≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and detectable levels of chlorine). Problem Catchments need not be screened pursuant to subsection (d), below, and shall be scheduled for catchment investigation pursuant to subsection (e), below. Problem catchments shall be identified during the initial ranking of catchments and subsequent rankings shall not add any catchments to the Problem Catchment category.

- High Priority Catchments: Catchments that have not been classified as Problem Catchments and that are discharging to an area of concern to public health due to proximity of public beaches, recreational areas, drinking water supplies or shellfish beds; catchments determined by the permittee as high priority based on outfall/interconnection screening under subsection (d), below, and catchment characteristics assessment under subparagraph (c)(ii), below. Any catchment where outfall/interconnection screening indicates sewer input based on olfactory/visual evidence or sampling results (ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and detectable levels of chlorine) shall be ranked at the top of the High Priority Catchments category and scheduled for catchment investigation pursuant to subsection (e), below.
- Low Priority Catchments: Catchments determined by the permittee as low priority based on outfall/interconnection screening under subsection (d), below, and catchment characteristics assessment under subparagraph (c)(ii), below.

(ii) The permittee shall priority rank catchments within each category (except for excluded catchments), based on screening factors. The permittee shall, at a minimum, consider the following screening factors:

- Past discharge complaints and reports.
- Poor dry weather receiving water quality- the following guidelines are recommended to identify waters as having a high illicit discharge potential: exceeding water quality standards for bacteria; ammonia levels above 0.5 mg/l; surfactants levels greater than or equal to 0.25 mg/l.
- Density of generating sites - Generating sites are those places, including institutional, municipal, commercial, or industrial sites, with a potential to generate pollutants that could contribute to illicit discharges. Examples of these sites include, but are not limited to, car dealers; car washes; gas stations; garden centers; and industrial manufacturing areas.
- Age of surrounding development and infrastructure – Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old will probably have a high illicit discharge potential. Developments 20 years or younger will probably have a low illicit discharge potential.
- Sewer conversion – Catchments that were once serviced by septic systems, but have been converted to sewer connections may have a high illicit discharge potential.
- Historic combined sewer systems – Catchments that were once serviced by a combined sewer system, but have been separated may have a high illicit discharge potential.
- Density of aging septic systems – Septic systems thirty years or older in residential land use areas are prone to have failures and may have a high illicit discharge potential. Consultation with local or state health officials is strongly encouraged.

- Culverted streams -- any river or stream that is culverted for distances greater than a simple roadway crossing may have a high illicit discharge potential.

The permittee may also consider as priorities for evaluation for illicit discharges, although not necessarily indicators of the presence of illicit connections or discharges:

- Water bodies that receive a discharge from the MS4 and are drinking water supplies, shell fishing areas, beaches or waters used for contact recreation.
- Impaired waterbodies that receive a discharge from the MS4 or waters with approved TMDLs applicable to the permittee, where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment.

The permittee may add additional relevant factors, including location-specific screening factors; if so, the permittee shall include the additional factors in its written IDDE program.

- (iii) An initial illicit discharge potential assessment and priority ranking based on existing information shall be completed within two (2) years from July 1, 2017 for existing 2004 MS4 permittees. New MS4 permittees shall complete this assessment and ranking by June 30, 2022. The permittee shall update its assessment and priority ranking annually based on catchment delineations pursuant to subsection (6), above, the results of screening pursuant to subsection (d), below, and other new relevant information. The permittee shall provide a listing of all catchments and the results of the ranking for each catchment in each annual report. For each catchment being investigated the permittee shall also provide in its annual report (1) a summary of evidence of known or suspected illicit discharges and SSOs; (2) completed, ongoing or planned corrective measures addressing confirmed illicit discharges and SSOs; and (3) a schedule for completing and verifying measures correcting the confirmed illicit discharges and SSOs.

(d) Outfall and Interconnection Screening and Sampling

The IDDE program shall include a written procedure for screening and sampling of outfalls and interconnections from the MS4 in dry and wet weather for evidence of illicit discharges and SSOs. This screening procedure shall be used for:

- baseline outfall and interconnection screening pursuant to subparagraph (iii), below (dry weather);
 - confirmatory screenings pursuant to subsection (f), below (dry and/or wet weather depending on catchment characteristics);
 - follow-up screening pursuant to subsection (g), below (dry and/or wet weather depending on catchment characteristics).
- (i) The screening and sampling procedure shall include procedures for sample collection, use of field kits, storage and conveyance of samples (including relevant hold times).
 - (ii) If an outfall is inaccessible or submerged, the permittee shall proceed to the first accessible upstream manhole or structure for the observation and sampling and report the location with the screening results. If an interconnection is inaccessible or submerged, interconnection screening shall occur at the first accessible location within the permittee's system upgradient of the interconnection.

- (iii) Dry weather screening and sampling shall proceed only when no more than 0.1 inches of rainfall has occurred in the previous 24-hour period. When a flow is observed, a sample of the flow shall be collected and analyzed for the parameters listed in subparagraph (v), below. If no dry weather flow is observed, the permittee shall record the condition of the outfall and other relevant information. If no flow is observed, but evidence of dry weather flow exists, the permittee shall revisit the outfall during dry weather within one week of the initial observation, if practicable, to perform a second dry weather screening and sample any observed flow. The permittee shall identify in the annual report any other necessary follow-up actions to identify the source of any apparent intermittent flow not sampled.
- (iv) Wet weather screening and sampling, which shall be conducted at an outfall and/or within the catchment area in accordance with subparagraph (e)(ii)b., below, shall proceed during or after a storm event of sufficient depth or intensity to produce a stormwater discharge but only during the spring (March to June) when groundwater levels are relatively high. The permit does not require a minimum rainfall event prior to wet weather screening. However, the purpose of wet weather screening and sampling under the IDDE program is to identify illicit discharges that may activate or become evident during wet weather. Permittees may incorporate provisions that assist in targeting such discharges, including avoiding sampling during the initial period of discharge ("first flush") and/or identifying minimum storm event intensities likely to trigger sanitary sewer interconnections.
- (v) Samples shall be analyzed at a minimum for ammonia, chlorine, conductivity, salinity, *E. coli*. (freshwater receiving water) or enterococcus (saline or brackish receiving water), surfactants (such as MBAS), and temperature. All analyses with the exception of indicator bacteria can be performed with field test kits or field instrumentation. In addition, where the discharge is directly into a water quality limited water or a water subject to an approved TMDL, the sample shall be analyzed for the pollutants identified as the cause of the impairment. Sampling for pollutants of concern shall be conducted using the analytical methods found in 40 CFR §136, or alternative methods approved by the Commissioner in accordance with the procedures in 40 CFR §136. Other IDDE screening parameters shall be considered field screening and are not subject to 40 CFR Part 136 requirements.
- (vi) Catchments where there is relevant information indicating sewer input to the MS4 or sampling results where ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water (or alternatively, ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and detectable levels of chlorine) shall be considered highly likely to contain illicit discharges from sanitary sources, and such catchments shall be ranked at the top of the High Priority Catchments category for investigation.

(e) Catchment Investigation Procedure

The permittee shall develop a written systematic procedure for catchment investigation that includes (1) a review of mapping and historic plans and records for the catchment; (2) a manhole inspection methodology; and (3) procedures to isolate and confirm sources of illicit discharges, as set forth below.

- (i) For each catchment being investigated, the permittee shall review relevant mapping and historic plans and records to the extent available, including but not limited to plans related to the construction of the storm drain and of sanitary sewers in the catchment, prior work performed on the storm drain or sanitary sewers, local health official or other municipal data on septic system failures or required upgrades, and complaint records related to SSOs, sanitary sewer surcharges, and septic system breakouts. This review shall be used to identify areas within the catchment with higher potential for illicit connections and System Vulnerability Factors that indicate a risk of sanitary or septic system inputs to the MS4 under wet weather conditions. Consultation with local or state health officials is strongly encouraged. The permittee shall identify and record the presence of any of the following specific System Vulnerability Factors:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages;
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs;
- Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints;
- Common or twin-invert manholes serving storm and sanitary sewer alignments;
- Common trench construction serving both storm and sanitary sewer alignments;
- Crossings of storm and sanitary sewer alignments;
- Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
- Areas formerly served by combined sewer systems;
- Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas;
- Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);
- History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);

The permittee shall document the presence or absence of System Vulnerability Factors for each catchment, retain this documentation as part of its IDDE program, and report this information in Annual Reports. Where System Vulnerability Factors are present, the catchment shall be investigated pursuant to subparagraph (ii)b., below.

- (ii) The manhole inspection methodology shall describe a storm drain network investigation that involves systematically and progressively observing, sampling (as required below) and evaluating key junction manholes in the MS4 to narrow the location of suspected illicit discharges or SSOs to an isolated pipe segment between two manholes, locate evidence of illicit discharges or SSOs that may not be evident at the outfall under all circumstances, and confirm or identify potential system vulnerability factors. The written catchment investigation procedures shall detail how the permittee will further isolate and identify potential illicit discharges as indicated by field kit detections equal to or greater than the threshold values listed in subparagraph (d)(vi), above. The permittee is responsible for selecting key junction manholes in a manner such that the distance between key junction manholes is appropriate to ensure a thorough assessment of its system.

The manhole inspection methodology may either start from the outfall and work up the system or start from the upper parts of the catchment and work down the system or be a combination of both practices. Either method must, at a minimum, include an investigation of each key junction manhole within the MS4, even where no evidence of an illicit discharge is observed at the outfall. The Catchment Investigation Procedure must describe the method the permittee will use.

a. Dry weather investigation

Key junction manholes shall be opened and inspected for visual and olfactory evidence of illicit connections (e.g. excrement, toilet paper, gray filamentous bacterial growth, or sanitary products present). If flow is observed, the permittee shall sample the flow at a minimum for ammonia, chlorine and surfactants and can use field kits for these analyses. Additional indicator sampling may assist in determining potential sources (e.g. bacteria for sanitary flows, conductivity to detect tidal backwater, etc.). Where sampling results or visual or olfactory evidence indicate potential illicit discharges or SSOs, the area draining to the junction manhole shall be flagged for further investigation, through upstream junction manhole investigation and/or isolation and confirmation of sources pursuant to subsection (e)(ii), above.

Manhole inspections in all areas shall also include identifying System Vulnerability Factors including common (twin invert) manholes, directly piped connections between storm drains and sanitary sewer infrastructure, common weir walls, sanitary sewer underdrain connections and other structural vulnerabilities where sanitary discharges could enter the storm drain system during wet weather. Where present, such System Vulnerability Factors shall be investigated pursuant to paragraph (b) below.

b. Wet weather investigation

Where the review of mapping and historic plans and records and/or manhole inspections indicate the presence of one or more System Vulnerability Factors as listed in subsection (e)(i), above, the permittee shall also inspect and sample under wet weather conditions to the extent necessary to determine whether wet weather-induced high flows in sanitary sewers or high groundwater in areas served by septic systems result in discharges of sanitary flow to the MS4. The permittee shall conduct at least one wet weather screening and sampling at the outfall for any catchment

where one or more System Vulnerability Factors are present. This sampling can be done upon completion of any dry weather investigation but must be completed before catchment investigation is marked as complete. All data shall be recorded and reported in each annual report.

(iii) Isolation and Source Verification Procedures

The permittee shall develop procedures to be used to isolate and confirm sources where manhole investigations or other physical evidence or screening has identified MS4 alignments to be influenced by illicit discharges or SSOs. These shall include isolation of the drainage area for implementation of more detailed investigations, inspection of additional manholes along the alignment to refine the location of potential contaminant sources, and methods such as caulk damns, targeted internal plumbing inspections, dye testing, video inspections, or smoke testing to isolate and confirm the sources.

(f) Removal and Confirmation

When the source of an illicit discharge or SSO is identified and confirmed, the permittee shall exercise its authority as necessary to require its removal pursuant to subsections (2) or (3), above. For each confirmed source the permittee shall include in the annual report the following information: the location of the discharge and its source(s), a description of the discharge, the method of discovery, date of discovery, date of elimination, mitigation or enforcement action; and estimate of the volume of flow removed.

Within one year of removal of all identified illicit discharge and SSO sources within a catchment area, confirmatory outfall or interconnection screening shall be conducted. The confirmatory screening shall be conducted in dry weather unless System Vulnerability Factors have been identified in the catchment pursuant to subsection (e)(i), above, in which case both dry weather and wet weather confirmatory screening shall be conducted. If confirmatory screening indicates evidence of additional illicit discharges, the catchment shall be scheduled for additional investigation. Confirmatory screening is not required in catchments where no illicit discharges or system vulnerability factors have been identified and no previous screening indicated suspicious flows.

(g) Follow-up Screening

Upon completion of catchment investigation pursuant to subsection (e), above, and illicit discharge removal and confirmation (if necessary) pursuant to subsection (f), above, the catchment outfall or interconnection shall be scheduled for follow-up screening within five years, or sooner as determined by the permittee based on the catchment's illicit discharge priority. Follow-up screening shall consist of dry weather screening and sampling except that wet weather screening and sampling shall also be required in catchments where wet weather screening was required by subparagraph (e)(ii)b., above.

(h) Illicit Discharge Prevention Procedures

The permittee shall develop and implement mechanisms and procedures designed to prevent illicit discharges and SSOs, such as: spill response and prevention procedures including identification of spills, reporting procedures, containment procedures, and documentation; public awareness (this may be a part of the education program required by subsection (2),

above); reporting (hotlines) and training of public employees involved in the IDDE program on ways to identify potential illicit discharges and SSOs.

(8) IDDE Program Implementation Goals and Milestones

The permittee shall implement the IDDE Program to meet the following goals and milestones:

- (a) The permittee shall complete dry weather screening and sampling (where flowing) of every MS4 outfall and interconnection (except Excluded and Problem Catchments) no later than three years from July 1, 2017 for existing 2004 MS4 permittees and by June 30, 2022 for new MS4 permittees. Existing 2004 MS4 permittees may rely on screening conducted under the previous permit issued January 9, 2004, pursuant to an enforcement action, or by the Commissioner to the extent that it meets the requirements of subsection (7), above. New MS4 permittees shall complete dry weather screening and sampling of every MS4 outfall and interconnection (except Excluded and Problem Catchments) no later than June 30, 2022. All data shall be reported in each annual report. Permittees that have conducted substantially equivalent monitoring to that required by subsection (7)(d), above, as part of an enforcement action can request an exemption from the requirements of subsection (7)(d), above, by submitting a written request to the Commissioner and retaining exemption approval from the Commissioner as part of the Plan. Until the permittee receives formal written approval of the exemption from subsection (7)(d), above, from the Commissioner the permittee remains subject to all requirements of subsection (7)(d), above.
- (b) Existing 2004 MS4 permittees shall begin investigations using the procedure developed in accordance with subsection (7)(d), above, within three months of investigation procedure finalization and no later than 15 months (1 year and 3 months) from July 1, 2017. New MS4 permittees shall begin these investigations no later than 2 years and 3 months from July 1, 2017. All permittees shall make continued progress each year toward meeting the milestones of subsection (8)(c), below. The permittee shall continue investigation, including Problem Catchments, using its existing IDDE program until such time as the procedure under subsection (7)(e), above, is developed.
- (c) The permittee shall implement the Catchment Investigation Procedure in every catchment of the MS4, even where dry weather screening does not indicate evidence of illicit discharges. The permittee shall begin implementation of the procedure in Problem Catchments and those catchments with the highest ranking in the Assessment of Priority Catchments pursuant to subsection (7)(c), above. Implementation of the Catchment Investigation Procedure shall comply with the following milestones. For purposes of these milestones, a catchment investigation is considered complete if a permittee has completed all elements of subsection (7)(e), above.
 - i. The permittee shall complete the Catchment Investigation Procedure in a minimum of 80% of the MS4 area served by Problem Catchments within three years of July 1, 2017 and 100% of Problem Catchments within five years of July 1, 2017.
 - ii. The permittee shall complete the Catchment Investigation Procedure in every catchment of the MS4 where information indicates sewer input including outfall/interconnection screening that indicates sewer input based on olfactory/visual evidence or sampling results (ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and detectable levels of chlorine) by June 30, 2022.

- iii. The permittee shall complete the Catchment Investigation Procedure in 40% of the area served by all MS4 catchments within five (5) years of July 1, 2017, and in 100% of the area served by all MS4 catchments within ten (10) years of July 1, 2017. The permittee may count the area of low priority catchments only if the Catchment Investigation has been started in all other MS4 catchments. For the purposes of this section, catchment investigations that have been started include those where provisions of subsections (7)(e)(i) and (ii), above, have been completed.
- d. Where catchments do not contain junction manholes, the dry weather screening and sampling shall be considered as meeting the manhole inspection requirement. In these catchments, dry weather screenings that indicate potential presence of illicit discharges shall be further investigated pursuant to subsection (7)(e)(iii), above. Investigations in these catchments may be considered complete where dry weather screening reveals no flow; no evidence of illicit discharges or SSOs is indicated through sampling results or visual or olfactory means; and no wet weather System Vulnerability Factors are identified.
- e. The permittee shall track progress towards these milestones in each annual report.

(9) Indicators of IDDE Program Progress

The permittee shall define or describe indicators for tracking program success. At a minimum, indicators shall include measures that demonstrate efforts to locate illicit discharges, the number of SSOs and illicit discharges identified and removed, the percent and area in acres of the catchment area served by the MS4 evaluated using the catchment investigation procedure, and volume of sewage removed. The permittee shall evaluate and report the overall effectiveness of the program based on the tracking indicators in the annual report.

(10) Training

The permittee shall, at a minimum, annually provide training to employees involved in IDDE program about the program, including how to recognize illicit discharges and SSOs. The permittee shall report on the frequency and type of employee training in the annual report.

Appendix C

AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS

GUIDANCE INFORMATION

The Stormwater Management Plan (“the Plan”) should consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes. Coordination and discussion with the local water company is strongly encouraged.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. The permittee should review Sections 19-13-B32(h) and (i) of the Regulations of Connecticut State Agencies for additional information. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground;
- minimize DCIA and disconnect large areas of DCIA with natural or landscape areas;
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground;
- provide necessary impervious pavement in high potential pollutant release areas. These “storm water hot spots” include certain land use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below);
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff; and
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

Infiltration of stormwater should be restricted under the following site conditions:

- **Land Uses or Activities with Potential for Higher Pollutant Loads:** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater “hotspots,” can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.
- **Subsurface Contamination:** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.
- **Groundwater Supply and Wellhead Areas:** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

Land Uses or Activities with Potential for Higher Pollutant Loads
Table 7-5 of the 2004 Stormwater Quality Manual

Land Use/Activities	
• Industrial facilities subject to the DEEP Industrial Stormwater General Permit or the U.S. EPA National Pollution Discharge Elimination System (NPDES) Stormwater Permit Program • Vehicle salvage yards and recycling facilities • Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling) • Vehicle service, maintenance, and equipment cleaning facilities • Fleet storage areas (cars, buses, trucks, public works) • Commercial parking lots with high intensity use (shopping malls, fast food restaurants, convenience stores, supermarkets, etc.) • Public works storage areas	• Road salt storage facilities (if exposed to rainfall) • Commercial nurseries • Flat metal rooftops of industrial facilities • Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development • Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall • Marinas (service and maintenance) • Other land uses and activities as designated by the review authority

For further information regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program at (860) 424-3020 or visit www.ct.gov/deep/aquiferprotection.

Appendix D – Impaired Waters Guidance

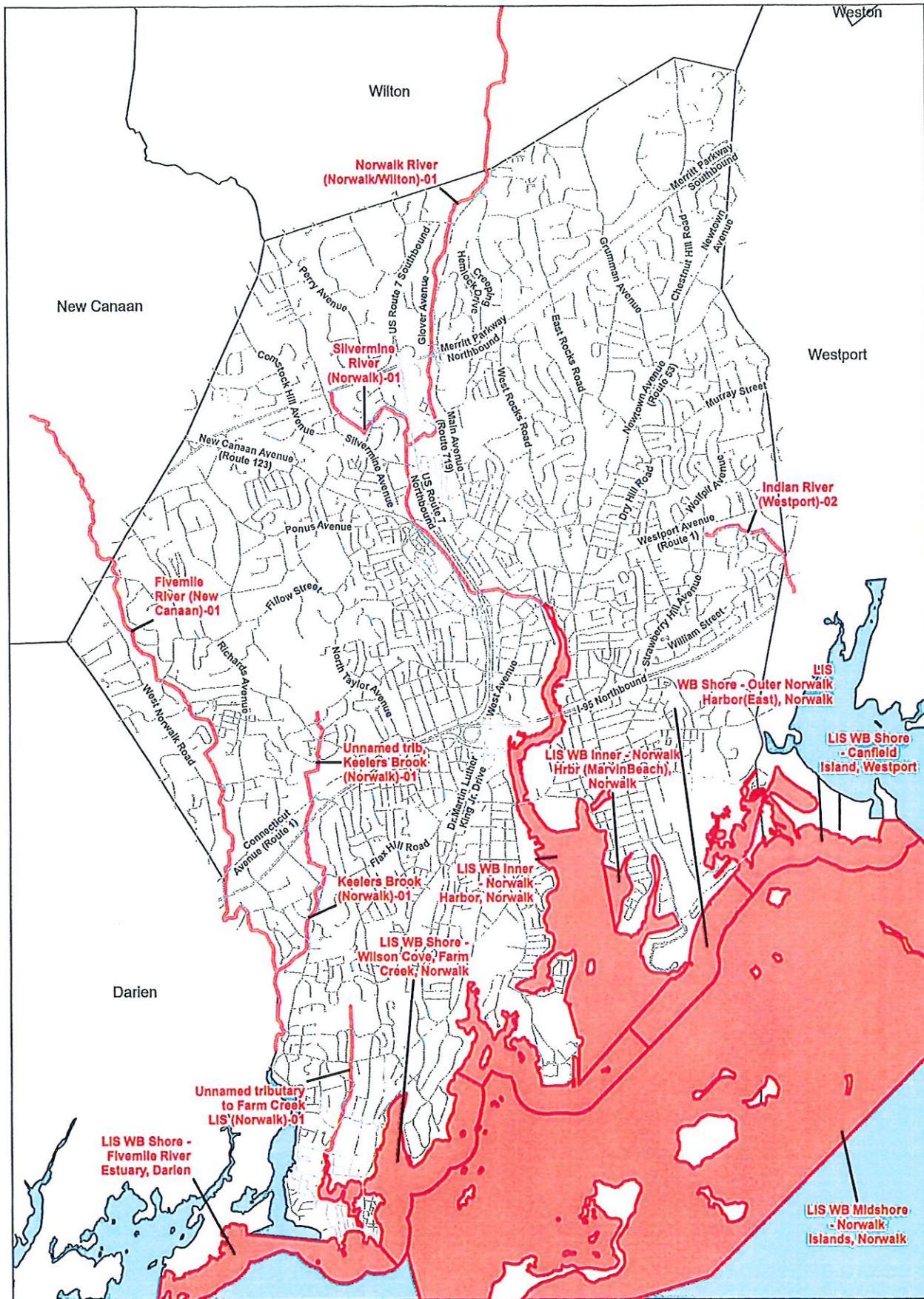
Surface Waters and Associated Stormwater Pollutants of Concern			
Stormwater Pollutant of Concern	Waterbodies included within a TMDL or Waters Included in Pollution Control Strategy Developed by CT DEEP	Impaired waters without a TMDL	
		Impaired Designated Use	Cause
Phosphorus	Any water body subject to a TMDL pollutant load reduction for Phosphorus or any waterbody included in the Interim Phosphorus Reduction Strategy for Connecticut Freshwater Non-tidal Receiving Rivers and Streams Technical Support Document (2014 or as amended) , including but not limited to the Bantam River Watershed, Blackberry River Watershed, Factory Brook Watershed, Farmington River Watershed, Fivemile River Watershed, Hockanum River Watershed, Housatonic River Main Stem Watershed, Limekiln Brook Watershed, Naugatuck River Watershed, Norwalk River Watershed, Pequabuck River Watershed Pomperaug River Watershed, Pootatuck River Watershed, Quinebaug River Watershed, Quinnipiac River Watershed, Shetucket River Watershed or Willimantic River Watershed	Habitat for Fish, Other Aquatic Life and Wildlife or Recreation	Phosphorus, Nutrient/ Eutrophication Biological Indicators, Dissolved Oxygen, Chlorophyll-a, or Excess Algal Growth
Nitrogen	Any water body subject to a TMDL pollutant load reduction for Nitrogen, including but not limited to the Long Island Sound TMDL for Dissolved Oxygen (entire state of CT)	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation, Nitrogen (Total), Nutrient / Eutrophication Biological Indicators, Oxygen, Dissolved
Bacteria	Any water body subject to a TMDL pollutant load reduction for Total Coliform, Escherichia coli, Fecal coliform or Enterococci	Recreation, Existing or Proposed Drinking Water, Commercial Shellfish Harvesting Where Authorized or Shellfish Harvesting for Direct Consumption Where Authorized	Total Coliform, Escherichia coli, Fecal coliform or Enterococci
Mercury	Any water body subject to a TMDL pollutant load reduction for Mercury (Entire state of Connecticut)	Habitat for Fish, Other Aquatic Life and Wildlife or Fish Consumption	Mercury

Water Quality Targets for Waters for Which Bacteria is a Stormwater Pollutant of Concern				
Water Quality Classification	E. Coli (Freshwater Rec) (cols/100mls)	Enterococci (Marine Rec) (cols/100mls)	Fecal Coliform (Marine Shellfishing) (cols/100mls)	Total Coliform (Freshwater Drinking) (cols/100mls)
AA	Instantaneous designated swimming 235 / Non designated Swimming 410 / All other Recreation 576 Geomean 126	N/A	N/A	Monthly Moving average <100 / Single Sample Maximum 500
A	Same as AA	N/A	N/A	N/A
B	Same as AA	N/A	N/A	N/A
SA (Direct Consumption)	N/A	Instantaneous Designated Swimming 104 / Instantaneous All other Uses 500 / Geomean 35	Geomean 14 / 90% of samples <31	N/A
SB (Indirect Consumption)	N/A	Same as SA waters	Geomean 88 / 90% of samples < 260	N/A



Appendix B City of Norwalk Impaired Waterbodies Map





**CDM
Smith**



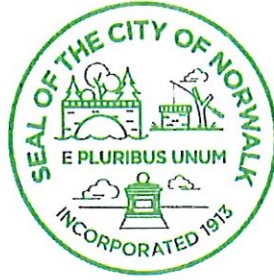
1 inch equals 3,200 feet

0 3,000 6,000 feet

Legend

- Streets
- Impaired Waterbodies

Norwalk, CT
Impaired Waterbodies
2022 Integrated Water Quality Report



Contract Staff Summary

Department/Staff Contact	Public Works / Engineering James Meehan x47331
Common Council Committee	Public Works Committee
Date Approved by Committee	June 4, 2024
Purpose/Scope	Sixth (6 th) Amendment Professional Services Flood Remediation Task Order 24-1 Dated May 21, 2024
Vendor (Indicate if new or existing vendor)	Woodard & Curran
Term of Contract	
Method of Procurement (Indicate if sole source)	Bid
Cost of Contract	\$166,000.00
Funding Source/Account Number	13 4010 5796 APW02 13 4010 5796 APW03 09 21 4021 5777 C0440
Additional Information/Other Details	Sixth Amendment to Agreement dated August 12, 2019



CITY OF NORWALK
James Meehan, P.E.
Principal Engineer / Department of Engineering
City of Norwalk
125 East Avenue
Norwalk, CT 06856
Office: (203) 854-7331
www.norwalkct.gov
jmeehan@norwalkct.gov

To: Vanessa Valadares, P.E. – Chief of Operations and Public Works
From: James Meehan, P.E. – Principal Engineer
Ref: On-Call Professional Engineering Services
Date: May 28, 2024

On August 12, 2019, the City of Norwalk entered into a contract agreement with Woodard & Curran, Inc., to provide on-call professional engineering services for storm drainage system evaluations at various locations.

In 2022, they completed the study “Storm Drainage System Evaluation Report – Glendenning Street Study Area” to evaluate the storm drainage systems in the Glendenning area of Norwalk, Connecticut where frequent flooding has been reported in roadways and on private properties.

On Wednesday, May 22, 2024, the Public Works Department received a proposal from Woodard & Curran to implement a drainage remediation design project that could alleviate specific areas of serious flooding within the study area.

The engineering department has reviewed the submitted proposal and based on their basic approach to the project, the qualifications of the consulting team, their understanding of the drainage issues within the study area, the hourly chargeable rate and manpower requirements, it would be our recommendation to retain the services of Woodard & Curran, Inc., for professional engineering services for this project for an amount not to exceed \$166,000.00.

Therefore, we would like to request the following item be included on the agenda for the June 4, 2024 meeting of the Public Works Committee of the Common Council for approval:

3. Authorize the Mayor, Harry W. Rilling to execute a Sixth Amendment to the Woodard & Curran Agreement dated August 12, 2019, to provide Professional Engineering Services for flood remediation at specific locations in accordance with Professional Services Task Order 24-1 dated May 21, 2024, for a sum not to exceed \$166,000.00.

Account No. 134010 5796 APW02
134010 5796 APW03
0921 4021 5777 C0440

A copy of the Professional Services Task Order is attached.

If you have any questions, please do not hesitate to call me.

PROFESSIONAL SERVICES TASK ORDER

Task Order 24-1

May 21, 2024

Exhibit A: Scope of Work

Storm Drainage Design Services – Glendenning Street and Glenwood Avenue

BACKGROUND

Woodard & Curran (W&C) completed the study “Storm Drainage System Evaluation Report – Glendenning Street Study Area” in 2022 to evaluate the storm drainage systems in the Glendenning area of Norwalk, Connecticut where frequent flooding has been reported in roadways and on private properties. The study analyzed flood risks to public and private properties; identified existing hydraulic deficiencies; and evaluated several combinations of flood mitigation alternatives. The assessment identified potential mitigation measures that the City could implement to reduce the frequency, extents, and/or duration of flooding.

The City of Norwalk has requested a design proposal for the following option:

- Alternative 2. Glendenning to Cannon Street Improvements (see attached Figure 1)

The proposed infrastructure improvements are described in more detail in the scope that follows

SCOPE OF WORK:

The intent of this Task Order is to provide engineering and permitting services associated with preferred mitigation alternatives selected by the City from the Glendenning Study. Woodard & Curran will prepare construction bid documents associated with recommended Flood Mitigation solution as follows:

PHASE 1.0 FIELD INVESTIGATION SERVICES

Task 1.1 Wetland Delineations

W&C will retain a subconsultant to field delineate wetlands and waterbodies within the defined project limits that are subject to regulation under the Connecticut Inland Wetlands and Watercourses Act (IWWA) as well as Section 404 and Section 401 of the Clean Water Act (CWA). For this project it is assumed this is limited to the area near the outfall to Betts Pond Brook, in Betts Brook Park. Prior to field work, the subconsultant will review publicly available literature, maps, and records regarding land use of the proposed project site, including but not limited to, aerial photography, United States Geological Survey (USGS) 7.5-minute topography, USGS national hydrography data (NHD) and hydrologic unit code (HUC) maps, United States Fish and Wildlife Services (USFWS) national wetland inventory (NWI) maps, Natural Resource Conservation

Service (NRCS) soil survey maps along with other research necessary to adequately assess the project area. Wetlands and waterbodies exhibiting the appropriate characteristics per the regulations will be flagged in the field with numbered plastic surveyor's tape. Boundaries of wetlands and waterbodies will also be mapped using a sub-meter Global Positioning System (GPS) unit and recorded on field sketch maps. Surveying of wetland and/or waterbody boundaries is not included in this scope. Wetlands delineated in the field will also be assessed for functions and values using the USACE New England District Highway Methodology Workbook Supplement.

Upon completion of the field delineation and following subsequent coordination with the City of Norwalk, the subconsultant will download and post-process GPS data and digitize the delineated boundaries of wetlands and waterbodies in a Geographic Information Systems (GIS) database. The subconsultant will prepare a technical report documenting the findings of the wetland and waterbody delineation. The technical report will be provided to the City of Norwalk for review and comment and digital files (GIS or AutoCAD) depicting the wetland and waterbody boundaries will be provided to the engineering design team for incorporation into the design plans. The location of designated upland review areas will also be depicted. Woodard & Curran will review the plans for environmental impacts and permitting requirements associated with the proposed design and construction methods. Following this review for potential environmental impacts, Woodard & Curran will schedule a meeting or conference call to discuss the findings of the wetland and waterbody delineation and a permitting schedule.

We have included an allowance of \$10,000 for completion of wetland delineations.

Task 1.2 Topographic and Boundary Survey

The existing conditions survey necessary for the design and permitting efforts will be completed within the approximate limits of the survey shown in Figure 2. A portion of this work was completed for the 2022 drainage study, and the additional limits shown will be added to that survey.

Survey work will be performed in accordance with the regulations of Connecticut State Agencies, Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by The Connecticut Association of Land Surveyors.

The survey will depict features within the project limits including but not limited to buildings with finished floor elevations, structures, surface utility hardware, fences, walls, curbing, driveways, sidewalks, striping, roadways, signs, tree lines, individual trees 6" and above, mailboxes, planters, decorative landscaping, and contours at one-foot intervals. Underground utilities will be compiled and plotted from visible surface evidence and available record drawings provided by utility companies, and invert elevations for storm and sanitary structures will be obtained and plotted when accessible. The survey will conform to horizontal accuracy class A-2 and topographic accuracy class T-2. Property lines will be depicted from available record information and conform to horizontal accuracy class D. All mapping completed for this project will reference the Connecticut State Plane Coordinate System, NAD83, and the North American Vertical Datum of 1988.

Task 1.3 Geotechnical Investigation

W&C will retain a subconsultant to provide a geotechnical investigation for the project. The subconsultant will develop a boring program intended to obtain soil type, bearing capacity,

depth to groundwater and other structural characteristics to be used in the design of the new storm drainage improvements. The following sub-tasks will be completed:

- Pre-mark test boring locations and contact Dig Safe.
- Develop and conduct a subsurface exploration program to be used for design of the new storm drainage project. The boring program is anticipated to include up to 6-10 borings drilled to an approximate depth of 20 feet below the ground surface, or refusal, whichever is shallower. Two of the borings will be on private properties and will require access agreements with the property owners.
- Conduct laboratory testing to develop geotechnical design parameters for foundation support of the proposed stormwater improvements.
- Prepare a geotechnical memorandum describing work performed and key geotechnical considerations for design and construction of the proposed stormwater improvements culvert, including:
 - Depths and thickness of soil encountered in the exploration performed at the site.
 - Depth to groundwater (if encountered) in the explorations.
 - Depth to refusal (if encountered) in the explorations; and
 - Allowable foundation bearing capacity.
 - Other design recommendations

We have included an allowance of \$40,000 for completion of the geotechnical investigations.

PHASE 2.0 DESIGN SERVICES

Design Development

Design development services include developing plans and specifications as follows;

- A. Project Drawings: W&C will develop plans depicting the existing conditions and proposed design within the project limits. Components of the design (i.e., storm drains, sanitary sewer, surface restorations) will be designed based on the City of Norwalk's Drainage Manual, the City of Norwalk Department of Public Works Roadway Standards and the City of Norwalk Department of Public Works Standard Detail Drawings and supplementary information provided by Public Works.
- B. Technical Specifications: W&C will prepare Technical Specifications required for the proposed improvements. The City of Norwalk utilizes the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 818, 2020 as revised by Supplemental Specifications, most recently dated July 2023 (otherwise referred to as "Form 818").
W&C shall work collaboratively with Public Works to modify Technical Specifications to the City's acceptance. The City will provide "front-end" sections of the Bid Documents, including the Invitation to Construction, Itemized Proposal, Bid Forms, Statement of Non-Collusion, Bidder Qualification Statement, Special Provisions and Bond Forms. W&C will provide review and comments on City provided Special Provisions.
- C. Opinion of Probable Construction Costs: W&C will prepare an opinion of probable construction cost for the work at the 30% and 90% level design stages. The estimate will be based on available advertised/awarded projects by municipalities and public agencies such as CTDOT and on prevailing prices for items established by the CTDOT weighted unit prices in

the Master Bid Item Lists. Unit prices not provided by CT DOT or other sources will be developed based on vendor quotes, RS Means Cost Data, and W&C's experience with similar work.

- D. Deliverables: W&C will provide the City a set of 30%, 60% and 90% design plans, technical specifications, and Engineers Opinion of Probable Construction Cost (EOPCC) for review and comment. W&C will revise the plans and specifications to address City comments after each submittal, culminating in a final set of plans, specifications, and Estimate for the City to incorporate into the final Bid Documents.
- E. Meetings: W&C will attend up to ten (10) meetings with City staff to review the progress of the design and deliverables.

PHASE 3.0 PERMITTING SERVICES

Task 3.1 – City of Norwalk Inland Wetland Agency Permit

Upon completion of preliminary environmental studies (including the field delineation of wetlands and waterbodies), Woodard & Curran will prepare and apply to the City of Norwalk Conservation Commission and Inland Wetland Agency for project impacts to wetlands, waterbodies, and/or upland review areas. The permit application will include forms, site plans, project narrative, alternatives considered, environmental impacts, and proposed mitigation along with supplemental engineering calculations and information. Woodard & Curran will schedule and complete an informal pre-application meeting or conference call with the City of Norwalk Conservation Commission and Inland Wetland Agency to discuss the project, reasonable alternatives, and permitting requirements to facilitate the project approval.

Task 3.2 –Army Corps/DEEP General Permit for the State of Connecticut

Upon completion of preliminary environmental studies (including the field delineation of wetlands and waterbodies), Woodard & Curran will prepare and apply for a General Permit (GP) to the Connecticut Department of Energy and Environmental Protection (CTDEEP) for project impacts to jurisdictional wetlands and/or waterbodies. Depending on the level of impact, the project may qualify for Self-Verification (SV) or would otherwise be authorized by the submittal of a Pre-Construction Notification (PCN). If a project qualifies for SV, Woodard & Curran will prepare and submit the Self-Verification Notification Form (SVNF) to the CTDEEP Inland Water Resources Division as well as the US Army Corps of Engineers (USACE). If a project is ineligible for SV, then it may be reviewed under a PCN which requires an application submittal to the USACE. If a PCN is required, Woodard & Curran will prepare and submit the PCN application including the required ENG Form 4345, site plans, project narrative, description of avoidance and minimization measures, wetland delineation data sheets, wetland functions and values assessment forms, agency consultation, and proposed mitigation.

For these drainage improvement projects, we anticipate that the projects may be authorized under one or more of the following GPs:

- **GP 2.** Repair or Maintenance of Existing, Currently Serviceable, Authorized or Grandfathered Structures & Fills, Removal of Structures
- **GP 6.** Utility Line Activities

- **GP 10. Aquatic Habitat Restoration, Establishment & Enhancement Activities**

Please note that this scope of work does not include preparation or submittal of a USACE Individual Permit (IP), Individual 401 Water Quality Certification (WQC), detailed compensatory mitigation plan, or a CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. If required, those permit applications and plans may be developed under a separate scope and fee. Woodard & Curran will complete a pre-application meeting with the USACE and/or CTDEEP.

ASSUMPTIONS

The following represents W&C's understanding of items that need additional clarification and/or assignment of responsibility for work.

1. City will provide all record drawings required, including service tie cards, for all municipal owned subsurface utilities. City will assist with coordination with the Water Pollution Control Authority and First District Water.
2. City will obtain access to private properties when required.
3. City will coordinate, schedule, and facilitate neighborhood meetings, as necessary.
4. City will coordinate, schedule, and facilitate utility coordination meetings, as necessary.
5. The City will provide "front-end" sections of the Bid Documents, including the Invitation to Construction, Itemized Proposal, Bid Forms, Statement of Non-Collusion, Bidder Qualification Statement, and Bond Forms. City will provide "boilerplate" special provisions and Bid Unit numbering for cost estimates.
6. Design of relocations for other utilities is not included.
7. Pipe trench restoration will include full depth asphalt replacement (including subbase). The City will be provided the option to also mill and repave the top course of the entire width of the road for the length impacted by pipe improvements. Woodard & Curran can also advise of the cost of top course replacement and full depth (i.e., top course & binder) asphalt replacement options. No new curb installation, crosswalks or sidewalk rehabilitation is included, except where disturbed within the project limits.
8. Closed drain system sizing will be based on the 25-year storm event.
9. Design of any downstream improvements is not included in this scope of work.
10. City will contact utility companies to request utility locations within project limits
11. The project will be bid as a single construction contract. Bid documents will not include project phasing.
12. No Conservation Commission filing will be necessary to perform the geotechnical exploratory borings.
13. Geotechnical field investigations (borings) and surveys are assumed to take place during non-winter conditions. Changes in fee may be required if because of schedule, these activities need to be conducted in winter conditions.
14. Police details, if required for work within the right-of-way, will be paid for directly by the Client.
15. Various subsurface utility infrastructure exists within the Project's limits of work. The location of surface visible structures within the project limits will be determined through actual field survey. The location and extent of the subsurface utilities will be developed based on record drawings from the City and private utility companies. Woodard & Curran will rely on the accuracy of information provided by others. This scope of work does not include subsurface investigations to locate utilities (i.e., geophysical surveys, etc.).

16. The technical specifications will require the Contractor to design excavation support and dewatering systems. Woodard & Curran has not included these services in the scope of work.
17. Permit application fees, public notice and advertisement fees will be paid for directly by City.
18. Scope of services and fees associated with services provided during bidding, contractor selection, and construction will be included in a separate contract.
19. The environmental permitting scope of work does not include the preparation of a detailed, site-specific wetland/stream/habitat mitigation plan that may be required by regulatory agencies based on their review of the permitting submittals captured in the scope of work of this proposal. If required, we can provide such services via a separate scope and fee proposal.
20. W&C will receive as-built locations of all subsurface infrastructure from the City of Norwalk in electronic GIS format, with a separate layer for each utility type (i.e., water, sewer, gas, electric, communications, etc.). The proposal is based on the City having this information and assumes that GPR or other subsurface utility locating services are not required.

COMPENSATION

Woodard & Curran proposes to perform the work described within this proposal on a Lump Sum Basis, invoiced monthly based upon the percentage of work complete for each Task. The following chart provides a breakdown of the basic and reimbursable services.

Basic Services Tasks	Budget
Phase 1 – Field Investigations	\$50,250
Phase 2 – Design Services	\$95,750
Phase 3 – Permitting Services	\$20,000
Total	\$166,000

SCHEDULE

Woodard & Curran is available to begin work on this project immediately and estimates the phases described herein can be completed within 6-9 months of Authorization to Proceed.

TERMS AND CONDITIONS

This work will be completed per the Terms and Conditions on the "Agreement by and Between the City of Norwalk and Woodard & Curran, Inc for ON-call Engineering Services for Storm Drainage Systems Evaluations," executed August 12, 2019. If the City finds this task order acceptable, we understand a formal authorization will be issued as an Amendment to the original agreement to proceed prior to initiating the work.

We appreciate the opportunity to continue to support the City. If you have questions, please do not hesitate to call me directly at 914-960-2836 or via email at acatalano@woodardcurran.com.

Sincerely,

WOODARD & CURRAN, INC.



Anthony Catalano, P.E.
Vice President, Senior Principal



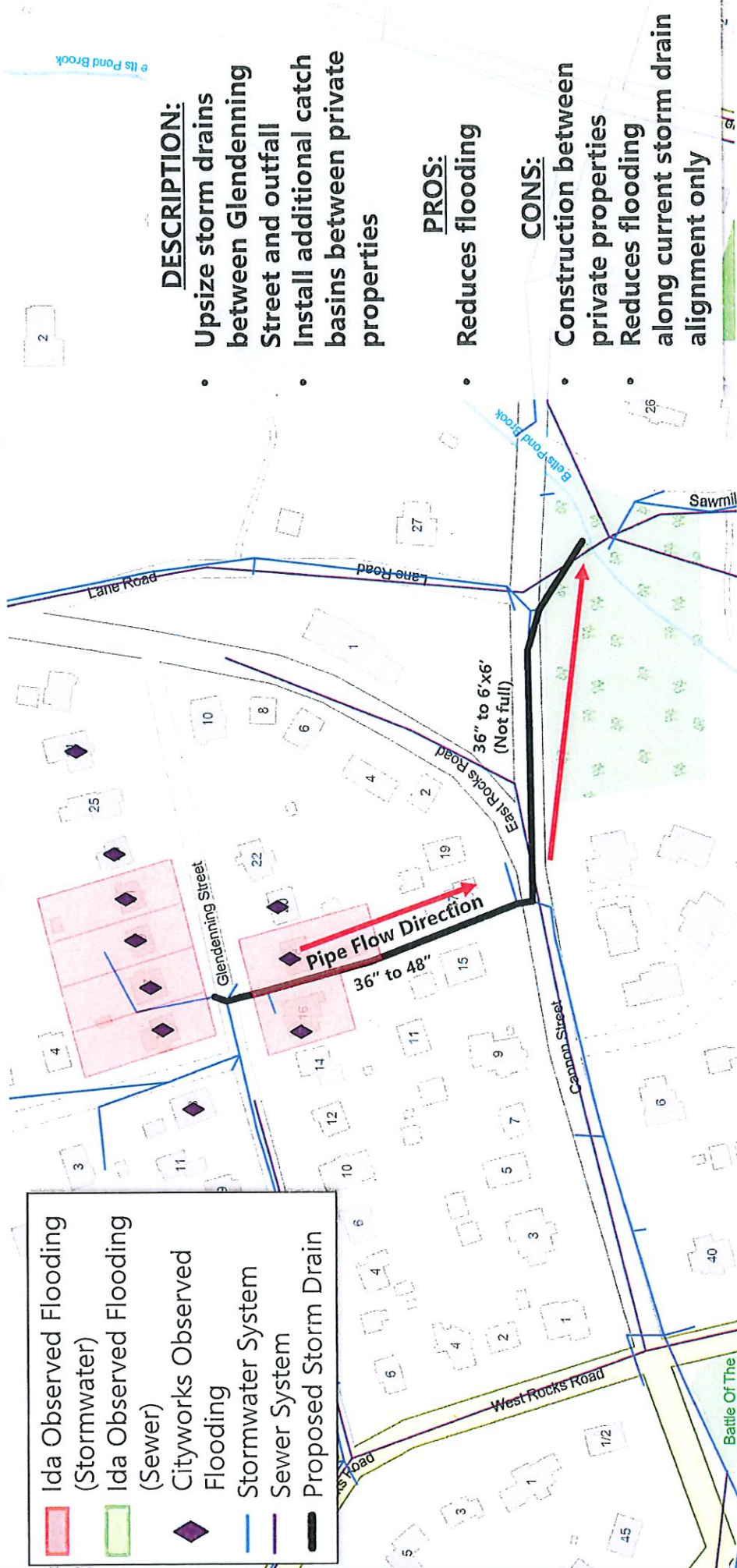
Darrin Stairs, P.E.
Senior Project Manager, Principal

PN 232240.00

Attachments:

- Figure 1 – Alt 2 Glendenning to Cannon Street
- Figure 2 – Limits of Field Investigations

Alternative 2: Glendenning to Cannon St Improvements



DESCRIPTION:

- Upsize storm drains between Glendenning Street and outfall
- Install additional catch basins between private properties

PROS:

- Reduces flooding

CONS:

- Construction between private properties
- Reduces flooding along current storm drain alignment only



Woodward & Curran

\$1.91M

Data to be collected by City:

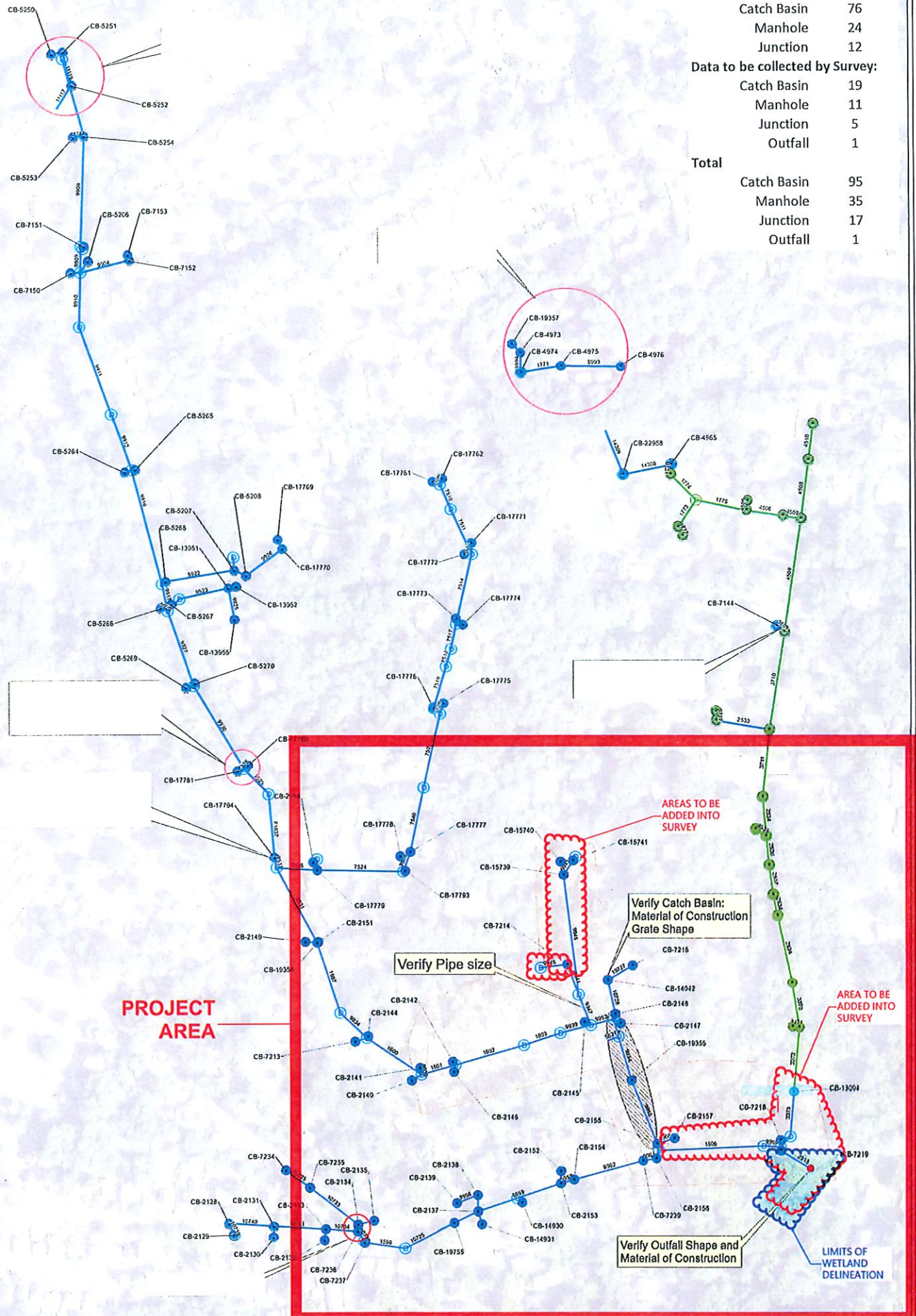
Catch Basin	76
Manhole	24
Junction	12

Data to be collected by Survey:

Catch Basin	19
Manhole	11
Junction	5
Outfall	1

Total

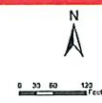
Catch Basin	95
Manhole	35
Junction	17
Outfall	1



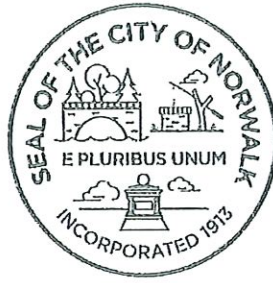
Glendenning Area
Norwalk Task 1G

Legend

- Outfall
- Catch Basins With Invert Information
- Manholes and Junctions With Invert Information
- Catch Basins Without Invert Information
- Manholes and Junctions Without Invert Information
- Conduits with Invert Elevations
- Conduits without Invert Elevations
- Survey for Land & Subsurface



**Woodard
& Curran**
Project # 03242020
Map Created: March 2022



Contract Staff Summary

Department/Staff Contact

Public Works / Engineering Vanessa Valadares x47902

Common Council Committee

Public Works Committee

Date Approved by Committee

June 4, 2024

Purpose/Scope

Authorize the Purchasing Agent to authorize a Sole Source purchase order to Tesla Inc. for the purchase of four (4) Tesla - model Y cars

Vendor

TESLA *Inc.*

(Indicate if new or existing vendor)

Term of Contract

Method of Procurement

Sole Source

(Indicate if sole source)

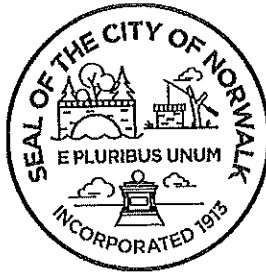
Cost of Contract

\$200,520.00

Funding Source/Account Number

09 24 4031 5777 C0313
09 25 4031 5777 C0313
09 25 4031 5777 C0716
09 24 4062 5777 C0361

**Additional Information/Other
Details**



DEPT OF FINANCE - Purchasing Department

NONCOMPETITIVE PROCUREMENT JUSTIFICATION FORM

DATE: 5/24/24

DEPARTMENT: Operations

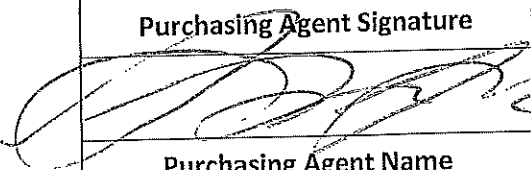
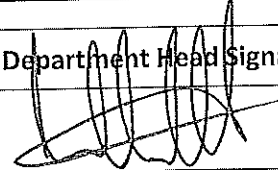
Procurement by non-competitive proposals may be used only when the award of a contract is infeasible under informal competitive Quotations (§3-204), Informal Competitive Request for Proposals (§3-205), seal bids, or competitive proposals and at least one of the following circumstances applies:

Check One:

☐	1	The item is available only from a single source (justification is attached). The provisions of this regulation apply to all sole source procurements unless emergency conditions exist as defined by Purchasing Guideline on Emergency Procurements
☐	2	After solicitation of several sources, competition is determined inadequate (record of source contacts and/or attempts to obtain pricing is attached)
☐	3	The compatibility of equipment, accessories, or replacement parts is of paramount consideration
☒	4	The item/service is available on a Cooperative Purchasing Agreement (please provide the organization name, quote, and the contract/agreement number)
☐	5	The public exigency or emergency for the requirement will not permit a delay resulting from competitive solicitation (documented emergency contingency is attached). Please forward this form and supporting documentation within 48 hours of the Emergency
☐	6	Other, please explain:

TOTAL COST: \$200,520.00 MUNIS Account: Please see below

VENDOR: Tesla Inc.

Purchasing Agent Signature 	The Purchasing Agent ☒ Supports	Department Head Signature 
Purchasing Agent Name	☐ Does Not Support	Department Head Name
Date <u>5/29/2024</u>	☐ Single Source Requires Common Council Authorization (in excess of \$20,000.00)?	Date <u>05/29/24</u>

JUSTIFICATION:

09244062-5777-C0361 Operations would like to move forward with our City Hall Vehicle Replacement Plan by purchasing 4(four) Tesla Model Ys. These vehicles will be the Electric Vehicle (EV) replacement for the Ford Explorers, Operations have previously purchased as administrative vehicles. The market for EV vehicles with 4 wheel drive in a SUV configuration is very narrow at this time, with Tesla being one of the only manufacturer that can deliver for comparable pricing to the Explorers we currently utilize. The Tesla Model Y is available on a GSA contract #47QMCA22D000U.

Account #'s

09244031-5777-C0313, 09254031-5777-C0313, 09254031-5777-C0716, 09244062-5777-C0361

ANY OTHER VENDORS CONTACTED FOR PRICING? (Please attach quotes): _____

Vendor 1: Chevrolet (Blazer EV: Pricing Unavailable at this time)

Vendor 2: Ford (Escape Plug In Hybrid: Currently unavailable, no eta given)

EMERGENCY: Explain in detail the nature of the emergency



500 Fremont Blvd
Fremont, CA 94538
Attn: Mac Dummire
0-821-3055

Item #	Description	Quantity	Units of Measure	Unit Price	Total Value
1	Car - Tesla Model Y	1	EACH	\$47,990.00	\$47,990.00
Standard Equipment Features					
	Color: Quicksilver	1	EACH	\$2,000.00	\$2,000.00
	Autopilot	1	EACH	\$0.00	\$0.00
	Power Doors	1	EACH	\$0.00	\$0.00
	Center console w storage, 4 USB-C ports and wireless charging for 2 smartphones	1	EACH	\$0.00	\$0.00
	Power Windows	1	EACH	\$0.00	\$0.00
	Carpeted Flooring Front and Rear	1	EACH	\$0.00	\$0.00
	19" Gemini Wheels	1	EACH	\$0.00	\$0.00
	All Black Interior	1	EACH	\$0.00	\$0.00
	Synthetic Leather Seats	1	EACH	\$0.00	\$0.00
	Tinted glass roof with ultraviolet and infrared protection	1	EACH	\$0.00	\$0.00
	Rear View Camera	1	EACH	\$0.00	\$0.00
	Tilt Steering Wheel	1	EACH	\$0.00	\$0.00
	Keys (2 Keys Standard)	1	EACH	\$0.00	\$0.00
	12-way power adjustable front and rear heated seats	1	EACH	\$0.00	\$0.00
	Front License Plate Holder	1	EACH	\$0.00	\$0.00
	Mirrors, Power folding, auto-dimming, heated	1	EACH	\$0.00	\$0.00
	Glass, Privacy	1	EACH	\$0.00	\$0.00
	Interior floor mats	1	EACH	\$0.00	\$0.00
	Traffic Aware Cruise Control	1	EACH	\$0.00	\$0.00
	LED fog lamps	1	EACH	\$0.00	\$0.00
	Eight surround cameras and 12 ultrasonic sensors	1	EACH	\$0.00	\$0.00
	Premium audio -14 speakers, 1 subwoofer, 2 amps, and immersive sound	1	EACH	\$0.00	\$0.00
	Back Up Alarm	1	EACH	\$0.00	\$0.00
	A/C, High Capacity Front/Rear	1	EACH	\$0.00	\$0.00
	Fee- Destination	1	EACH	\$1,390.00	\$1,390.00
	Order Fee	1	EACH	\$250.00	\$250.00
Total excluding tax and fees				\$ 51,630.00	\$ 51,630.00

Current Est. Delivery: June 2024



30 Fremont Blvd
Fremont, CA 94538
: Mac Dunmire
-821-3055

m #	Description	Quantity	Units of Measure	Unit Price	Total Value
1	Car - Tesla Model Y	3	EACH	\$47,990.00	\$143,970.00
	310 mile range Dual Motor All-Wheel Drive				
Standard Equipment Features					
	Color: Stealth Grey	3	EACH	\$0.00	\$0.00
	Autopilot	3	EACH	\$0.00	\$0.00
	Power Doors	3	EACH	\$0.00	\$0.00
	Center console with storage, 4 USB-C ports and wireless charging for 2 smartphones	3	EACH	\$0.00	\$0.00
	Power Windows	3	EACH	\$0.00	\$0.00
	Carpeted Flooring Front and Rear	3	EACH	\$0.00	\$0.00
	19" Gemini Wheels	3	EACH	\$0.00	\$0.00
	All Black Interior	3	EACH	\$0.00	\$0.00
	Synthetic Leather Seats	3	EACH	\$0.00	\$0.00
	Tinted glass roof with ultraviolet and infrared protection	3	EACH	\$0.00	\$0.00
	Rear View Camera	3	EACH	\$0.00	\$0.00
	Tilt Steering Wheel	3	EACH	\$0.00	\$0.00
	Keys (2 Keys Standard)	3	EACH	\$0.00	\$0.00
	12-way power adjustable front and rear heated seats	3	EACH	\$0.00	\$0.00
	Front License Plate Holder	3	EACH	\$0.00	\$0.00
	Mirrors, Power folding, auto-dimming, heated	3	EACH	\$0.00	\$0.00
	Glass, Privacy	3	EACH	\$0.00	\$0.00
	Interior floor mats	3	EACH	\$0.00	\$0.00
	Traffic Aware Cruise Control	3	EACH	\$0.00	\$0.00
	LED fog lamps	3	EACH	\$0.00	\$0.00
	Eight surround cameras and 12 ultrasonic sensors	3	EACH	\$0.00	\$0.00
	Premium audio -14 speakers, 1 subwoofer, 2 amps, and immersive sound	3	EACH	\$0.00	\$0.00
	Back Up Alarm	3	EACH	\$0.00	\$0.00
	A/C, High Capacity Front/Rear	3	EACH	\$0.00	\$0.00
	Fee- Destination	3	EACH	\$1,390.00	\$4,170.00
	Order Fee	3	EACH	\$250.00	\$750.00
Total excluding tax and fees				\$ 49,630.00	\$ 148,890.00

Current Est. Delivery: June 2024

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type.
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

Tesla, Inc.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC

☒ C Corporation

☐ S Corporation

☐ Partnership

☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ►

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ►

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

1 Tesla Road

6 City, state, and ZIP code

Austin, TX 78725

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

____ - ____ - ____

or

Employer identification number

9 1 - 2 1 9 7 7 2 9

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign
Here

Signature of
U.S. person ►

Josh Gruber

Date ► 02/07/2024

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

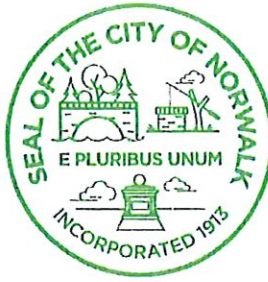
An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



Contract Staff Summary

Department/Staff Contact	Department of Public Works / Daniel Stanton, PE
Common Council Committee	Public Works Committee
Date Approved by Committee	
Purpose/Scope	The City is administering a Department of Economic and Community Development (DECD) Community Investment Fund Grant for DRG2024-1 Lockwood and Heather Lane Drainage Improvements. We requested and have reviewed a task order to provide construction administration and inspection services. We recommend that this contract is approved to the apparent low bidder, Tighe & Bond, Inc..
Vendor (Indicate if new or existing vendor)	Tighe & Bond, Inc.
Term of Contract	Not to Exceed
Method of Procurement (Indicate if sole source)	Bid
Cost of Contract	\$466,000
Funding Source/Account Number	09 24 4021 5799 C0689 09 21 4021 5777 C0440
Additional Information/Other Details	DPW2024-2 On-Call Construction Inspection Observation Services First Amendment



CITY OF NORWALK
Daniel Stanton, PE
*Senior Engineer/Department
of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7981
dstanton@norwalkct.gov

MEMORANDUM

TO: Vanessa Valadares, P.E. – Chief of Operations and Public Works

CC: James Meehan, P.E. – Principal Engineer

FROM: Daniel Stanton, PE – Senior Civil Engineer

RE: Project DPW2024-2 On-Call Construction Inspection - Observation Services – First (1st) Amendment

DATE: May 23, 2024

The Department of Public Works has a existing contract for “Project DPW2024-2.” This project consists of the City’s On-Call Construction Inspection - Observation Services. This contract was approved at the February 13, 2024 Common Council Meeting.

The City is administering a Department of Economic and Community Development(DECD) Community Investment Fund Grant for DRG2024-1 Lockwood and Heather Lane Drainage Improvements. We requested and have reviewed a task order to provide construction administration and inspection services. We recommend that this contract is approved to Tighe & Bond, Inc.

I would like to request that the following items be included on the agenda for the June 4, 2024, Public Works Committee meeting.

- 1) Authorize the Mayor, Harry W. Rilling, to execute a first(1st) Amendment between the City of Norwalk and Tighe & Bond, Inc. for Project DPW2024-2 On-Call Construction Inspection - Observation Services for an amount not to exceed \$466,000.00, billable on an hourly basis.

Account No.

09 24 4021 5799 C0689
09 21 4021 5777 C0440

A copy of the bid information from the Purchasing Department for Project 4338, DPW2024-2 On-Call Construction Inspection - Observation Services can be found at the link below.

<https://www.norwalkct.org/DocumentCenter/Index/1713>

Attached: Tighe & Bond Proposal

23-0814-0-P036
May 7, 2024
Revised May 23, 2024

Mr. Daniel Stanton, PE
Sr. Civil Engineer
City of Norwalk
125 East Avenue
Norwalk, CT 06856

Re: **Lockwood Lane & Heather Lane Storm Drainage Improvements (DRG2024-1)
Construction Administration & Construction Observation Services**

Dear Mr. Stanton:

Tighe & Bond is pleased to submit this proposal to the City of Norwalk to provide Construction Phase Services for the Lockwood Lane & Heather Lane Drainage Improvements Project (the Project). Based on the Bid Documents and discussions with the City, we have assumed that work on the Project will begin in Summer, 2024 and continue for an estimated 430 calendar days (approximately 310 work days). We have also assumed that the City of Norwalk Department of Public Works (DPW) will designate a Project Manager for this Project who will serve as the primary point of contact with the Contractor and Tighe & Bond's staff. Tighe & Bond's Construction Phase Services will be limited to the Construction Administration and Construction Observation Tasks described below. Based on these assumptions, we propose the following Scope of Services:

SCOPE OF SERVICES

A. Construction Administration Services (Office)

Provide Construction Administrative assistance to the City of Norwalk during the construction phase of the project, which we have estimated will span a period of approximately 430 calendar days (approximately 310 work days), including the following services:

1. Attend a Kick-Off Meeting with the City of Norwalk staff and the Contractor.
2. Attend regularly scheduled construction meetings with the Contractor and City of Norwalk (assume monthly). We have included attendance at up to 16 construction meetings. Prepare minutes documenting the discussions during the progress meetings.
3. Review contractor's monthly pay estimates. We have included review of up to 18 pay estimates (includes final invoice for retainage release).
4. Maintain log of quantities of pay items completed.
5. Provide coordination with field staff and advise on field issues.
6. Review and process the following documents (if requested by the City of Norwalk), and distribute to the City, Contractor and field Construction Observation personnel:
 - a. Detailed construction and shop drawings for compliance with design concept and intent. Laboratory, shop and mill test reports and certificates for

- materials and equipment. We have assumed a review of up to 30 project submittals.
 - b. Contractor's questions and RFI's during construction. We have assumed providing a review and response to up to 20 RFI's.
 - c. Contract change orders, if necessary. We have assumed the review of up to five (5) change orders including review of the Contractor's supplied cost breakdown. We have assumed the City of Norwalk will prepare any required contract change orders.
7. Complete final review of the completed construction and prepare a report on any readily observable deficiencies, corrective actions required, and recommendations for final acceptance of the project.
 8. Review the as-built survey provided by the Contractor at the completion of construction activities. We have assumed that Record Drawings will be prepared by others.
 9. Assist the City of Norwalk with completion of closeout documentation required by DECD.

B. Construction Observation Services (Field)

Tighe & Bond will provide on-site observation of construction activities during periods of active construction. We have assumed the active construction period will be approximately 430 calendar days, or 310 work days. Removing holidays, Construction Observation services are based on an estimate of approximately 300 days on site. Services will include:

1. Furnish on-site construction observation services throughout the active construction period. We have assumed the active construction period will be 430 calendar days, and have included up to 300 days on site for our Construction Observer. One Construction Observer will be provided during this period. We have assumed that the Contractor will work 9 hour work days on average, five days per week.

Tighe & Bond's on-site observer will observe/view the Contractor's services for noticeable deficiencies from contract documents, assist in design interpretation, and confirm the construction is in general conformity with the contract documents. We are on-site for the City of Norwalk's benefit and will notify the City of Norwalk of deficiencies in order for the City of Norwalk to determine if stopping the Contractor's services are appropriate and in the best interest of the Project performance. The means and methods the Contractor should use to accomplish the design element/component of the specifications will be determined by the Contractor, who will also be responsible for compliance with laws, rules, and regulations, as well as, the overall supervision of the site health and safety.

2. Field checking of the construction contractor's shop and working drawings and comparing them with the approved plans.
3. Measurement, computation, or checking of quantities of work performed and quantities of materials in place for partial and final payments to the Contractor.
4. Preparation of daily observation reports covering the work in progress, and documenting delays to construction, unusual events, visitors to the work site, etc.
5. Monitoring work in progress for adherence to construction contract requirements.

6. Provide oversight of outside material testing services: arranging for and witnessing of field, laboratory, or shop tests for construction materials as specified to be completed by the City in the drawings and specifications (if required). We have assumed that the City of Norwalk will contract with an outside material testing laboratory directly, if required, and have not included costs for outside lab services.
7. Coordination of the construction activity with the City of Norwalk.

Assumptions and Exclusions

1. We have assumed that the construction observation services will be provided for a maximum of 2,700 hours (approximately 300 work days). Should additional construction observation services be required, an amendment can be provided for additional services. We have assumed a Construction Observer will be on site for this project.
2. Field survey services, including preparation of an as-built survey or Record Drawings, are not included.
3. Environmental services are not included.
4. Material testing services (e.g., soil compaction, concrete cylinders for compressive strength, welds) are not included.
5. All services not specifically identified in the Scope of Services are excluded.

FEES

Tighe & Bond will perform the scope of work noted above for a not to exceed fee of \$466,000 as detailed below. We will undertake the work on an hourly plus expense basis in accordance with the Terms and Conditions of our current On-Call Construction Observation Agreement, dated April 8, 2024, and you will be billed in accordance with the fixed rates in our On-Call Agreements for Construction Observation and Engineering Services.

In the event that the scope of work is increased for any reason, the fee to complete the work shall be mutually revised by written amendment. The included schedule and fees are based on the above scope of work and assumptions. The schedule includes reasonable allowances for review and approval times by applicable parties. This schedule may need to be adjusted as the project progresses, allowing for changes in scope, character or size of the project requested by you, or for delays or other causes beyond our reasonable control.

For information purposes, the below summary provides the anticipated break out of the project. The summary is presented to give the City of Norwalk a better understanding of how the project budget was developed. Invoices will be submitted based on the total project fee and not individual line item budgets.

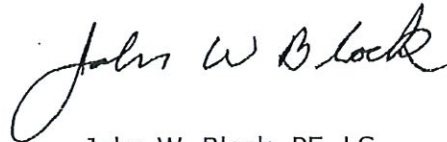
Phase	Estimate of Hours	Basis of Compensation	Estimated Fee
Construction Administration Services (Office)	580	Hourly	\$100,000
Construction Observation Services (Field)	2,700	Hourly	\$364,000
Direct Expenses (Mileage)		Allowance	\$2,000
Total			\$466,000

Very truly yours,

TIGHE & BOND, INC.



Jonathan A. Richer, PE
Senior Project Manager



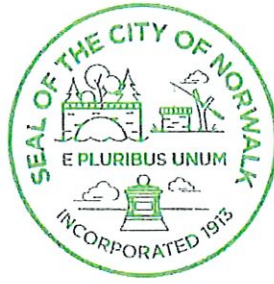
John W. Block, PE, LS
Senior Vice President

Acceptance:

On behalf of the City of Norwalk, the scope, fee, and terms of this proposal are hereby accepted.

Authorized Representative

Date



Contract Staff Summary

Department/Staff Contact	Department of Public Works / Mateo Arias
Common Council Committee	Public Works Committee
Date Approved by Committee	June 4, 2024
Purpose/Scope	Paving of Several Parking Facilities
Vendor (Indicate if new or existing vendor)	B&W Paving & Landscaping LLC.
Term of Contract	The Work Proposed in the Base Bid Herein Must be Completed by August 31, 2024. Upon agreement of a starting date by both parties the Contractor will have two (2) weeks between start and finish of each parking lot. The Work Proposed in the Alternate 1 Herein Must be Completed within two (2) weeks upon agreement of a starting day by both parties, and work must be completed no later than September 30, 2024.
Method of Procurement (Indicate if sole source)	Bid
Cost of Contract	Base Bid: \$336,640.00 Alternate 1: \$80,650.10 10% Contingency: \$41,729.01
Funding Source/Account Number	0916 5010 5777 C0516 0919 5010 5777 C0516 0920 5010 5777 C0516 0922 5010 5777 C0516 0924 5010 5777 C0516 0924 7100 5777 C0295 0925 7100 5777 C0119
Additional Information/Other Details	BLDG2024-1 Paving of Ben Franklin, Kendall and Rowayton School Parking Lot.

10a & 10b



**DEPARTMENT OF
ENGINEERING**

CITY OF NORWALK

Mateo Arias

***Junior Engineer/Department of
Engineering***

125 East Avenue

Norwalk, CT 06856

Office: 203 -854 7739

marias@norwalkct.gov

MEMORANDUM

TO: Vanessa Valadares, P.E. – Chief of Operations and Public Works

CC: James Meehan, P.E. – Principal Engineer

FROM: Mateo Arias – Junior Engineer

RE: BLDG2024-1 Paving Of Ben Franklin, Kendall Elementary School And Rowayton Elementary School Facility Parking Lot (Base Bid) And Paving Of DPW Operations Facility Parking Lot (Alternate 1)

DATE: May 29, 2024

The Department of Public Works has prepared plans for "Project BLDG2024-1. Paving Of Ben Franklin, Kendall Elementary School and Rowayton Elementary School Facility Parking Lot (Base Bid) And Paving Of DPW Operations Facility Parking Lot (Alternate 1)." This Project Consists Of Paving Of Several Parking Facilities.

As part of this Project, the following work is proposed to be done:

- Ben Franklin – Base Bid
- Kendall Elementary School – Base Bid
- Rowayton Elementary School – Base Bid
- DPW Operations Facility – Alternate 1

The Purchasing Agent opened the bids for this project on May 23, 2024 and the apparent low bidder for the Base Bid + Alternate 1 is B&W Paving & Landscaping LLC, with a bid amount of \$417,290.10

I have attached a copy of the selection results received from the three (3) bidders for your reference, including an itemized comparing of the three (3) apparent low responsive bid results and Engineer's Estimate for your reference. Therefore, I would like to request that the following items be included on the Agenda for the June 4, 2024, Public Works Committee meeting.

1. Authorize the Mayor Harry W. Rilling, to execute an Agreement with B&W Paving & Landscaping LLC. for Purchasing Project 4366, BLDG2024-1 Paving of Ben Franklin, Kendall Elementary School, and Rowayton Elementary School Facility Parking Lot (Base Bid) and Paving of DPW Operations Facility Parking Lot (Alternate 1) for a sum not to exceed \$336,640.00 (Base Bid) plus \$80,650.10 (Alternate 1).

Account No.

0916 5010 5777 C0516

0919 5010 5777 C0516



**DEPARTMENT OF
ENGINEERING**

CITY OF NORWALK

Mateo Arias

***Junior Engineer/Department of
Engineering***

125 East Avenue

Norwalk, CT 06856

Office: 203 -854 7739

marias@norwalkct.gov

0920 5010 5777 C0516
0922 5010 5777 C0516
0924 5010 5777 C0516
0924 7100 5777 C0295
0925 7100 5777 C0119

2. Authorize the Chief of Operations and Public Works to execute Orders on Contract with B&W Paving & Landscaping LLC. for Purchasing Project 4366, BLDG2024-1 Paving of Ben Franklin, Kendall Elementary School, and Rowayton Elementary School Facility Parking Lot (Base Bid) and Paving of DPW Operations Facility Parking Lot (Alternate 1) for a sum not to exceed \$41,729.01.

Account No.

0916 5010 5777 C0516
0919 5010 5777 C0516
0920 5010 5777 C0516
0922 5010 5777 C0516
0924 5010 5777 C0516
0924 7100 5777 C0295
0925 7100 5777 C0119

A copy of the bid information from the Purchasing Department for Project 4366, BLDG2024-1 Paving of Ben Franklin, Kendall Elementary School, and Rowayton Elementary School Facility Parking Lot (Base Bid) and Paving of DPW Operations Facility Parking Lot (Alternate 1) can be found at the link below.

<https://www.norwalkct.org/DocumentCenter/Index/1713>

Project Number : BLDG2024-1 (

Project Name : PAVING OF DPW OPERATIONS FACILITY (ALTERNATE 1)

Item	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
06171A	HMA SUPERPAVE 0.50" (12.5) LEVEL 2	300	\$152.00	\$45,600.00	\$175.00	\$52,500.00	\$200.00	\$60,000.00	\$215.00	\$64,500.00
06267A	BITUMINOUS CONCRETE MILLING (0" - 4")	2,077	\$11.30	\$23,470.10	\$11.00	\$22,847.00	\$10.00	\$20,770.00	\$8.00	\$16,616.00
07042A	RESET CATCH BASIN	5	\$1,500.00	\$7,500.00	\$1,200.00	\$6,000.00	\$2,500.00	\$12,500.00	\$1,000.00	\$5,000.00
075004A	MOBILIZATION AND PROJECT CLOSEOUT (MAX 3% OF BID)	1	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$2,300.00	\$2,300.00
10105	EPOXY RESIN PAVEMENT MARKINGS - SYMBOLS AND LEGENDS	50	\$10.00	\$500.00	\$8.00	\$400.00	\$10.00	\$500.00	\$10.00	\$500.00
10124	24" WHITE EPOXY RESIN PAVEMENT MARKINGS	120	\$9.00	\$1,080.00	\$16.00	\$1,920.00	\$10.00	\$1,200.00	\$5.00	\$600.00
			\$80,650.10		\$86,667.00		\$97,470.00		\$89,516.00	

Apparent Low Bidder : B&W PAVING & LANDSCAPING, LLC

Second Bidder : WATERS CONSTRUCTION

Third Bidder : THE GRASSO COMPANIES LLC

Project Number : BLDG2024-1 (PAVING OF BEN FRANKLIN, KENDALL ELEMENTARY SCHOOL AND ROWAYTON ELEMENTARY SCHOOL FACILITY PARKING LOTS (BASE BID)

ems	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
201001A	CLEARING AND GRUBBING	1	\$10,000.00	\$10,000.00	\$5,900.00	\$5,900.00	\$7,000.00	\$7,000.00	\$10,000.00	\$10,000.00
202503A	REMOVAL OF CONCRETE CURBING	20	\$5.00	\$100.00	\$74.00	\$1,480.00	\$40.00	\$800.00	\$20.00	\$400.00
202504A	REMOVAL OF BITUMINOUS CONCRETE CURBING	1,020	\$2.00	\$2,040.00	\$6.00	\$6,120.00	\$3.00	\$3,060.00	\$8.00	\$8,160.00
406171A	HMA SUPERPAVE 0.50" (12.5) LEVEL 2	1,095	\$175.00	\$191,625.00	\$152.00	\$166,440.00	\$170.00	\$186,150.00	\$215.00	\$235,425.00
406204A	ROAD ENCROACHMENT PERMANENT PAVEMENT REPAIR (LOCAL) MIN BID - SEE SPECIAL NOTES	60	\$75.00	\$4,500.00	\$111.00	\$6,660.00	\$184.00	\$11,040.00	\$100.00	\$6,000.00
406267A	BITUMINOUS CONCRETE MILLING (0" - 4")	8,670	\$7.00	\$60,690.00	\$9.80	\$84,966.00	\$8.00	\$69,360.00	\$8.00	\$69,360.00
811001A	CONCRETE CURBING	20	\$75.00	\$1,500.00	\$154.00	\$3,080.00	\$80.00	\$1,600.00	\$81.00	\$1,620.00
815001	BITUMINOUS CONCRETE LIP CURBING	920	\$11.00	\$10,120.00	\$10.00	\$9,200.00	\$10.00	\$9,200.00	\$16.50	\$15,180.00
921001A	CONCRETE SIDEWALK	80	\$20.00	\$1,600.00	\$57.00	\$4,560.00	\$76.00	\$6,080.00	\$32.00	\$2,560.00
924007A	HANDICAP RAMPS (ADA COMPLIANT)	8	\$700.00	\$5,600.00	\$340.00	\$2,720.00	\$200.00	\$1,600.00	\$45.00	\$360.00
944003A	FURNISHING AND PLACING TOPSOIL	98	\$15.00	\$1,470.00	\$40.00	\$3,920.00	\$30.00	\$2,940.00	\$30.00	\$2,940.00
950003A	TURF ESTABLISHMENT (LAWN)	98	\$3.00	\$294.00	\$8.00	\$784.00	\$28.00	\$2,744.00	\$20.00	\$1,960.00
970006A	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	1	\$7,200.00	\$7,200.00	\$7,200.00	\$7,200.00	\$7,200.00	\$7,200.00	\$7,200.00	\$7,200.00
970007A	TRAFFICPERSON (UNIFORMED FLAGGER)	120	\$60.00	\$7,200.00	\$89.00	\$10,680.00	\$78.00	\$9,360.00	\$67.00	\$8,040.00
971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	1	\$10,000.00	\$10,000.00	\$4,500.00	\$4,500.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
975004A	MOBILIZATION AND PROJECT CLOSEOUT (MAX 3% OF BID)	1	\$7,500.00	\$7,500.00	\$8,500.00	\$8,500.00	\$9,000.00	\$9,000.00	\$12,200.00	\$12,200.00
1210103	4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKINGS	140	\$3.00	\$420.00	\$5.00	\$700.00	\$2.00	\$280.00	\$3.00	\$420.00
1210105	EPOXY RESIN PAVEMENT MARKINGS - SYMBOLS AND LEGENDS	1,400	\$7.00	\$9,800.00	\$4.50	\$6,300.00	\$8.00	\$11,200.00	\$10.00	\$14,000.00
1210124	24" WHITE EPOXY RESIN PAVEMENT MARKINGS	310	\$10.00	\$3,100.00	\$3.00	\$930.00	\$16.00	\$4,960.00	\$5.00	\$1,550.00
1302060A	RESET GATE BOXES	10	\$100.00	\$1,000.00	\$200.00	\$2,000.00	\$300.00	\$3,000.00	\$10.00	\$100.00
			\$335,759.00		\$336,640.00		\$351,574.00		\$402,475.00	

Apparent Low Bidder : THE GRASSO COMPANIES LLC

Second Bidder : B&W PAVING & LANDSCAPING, LLC

Third Bidder : WATERS CONSTRUCTION



DEPARTMENT OF
ENGINEERING

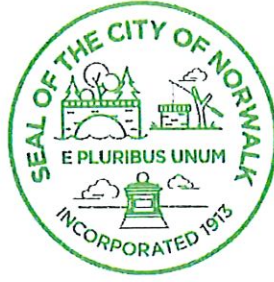
CITY OF NORWALK
Department of Engineering

Project: BLDG2024-1

BID OPENING: Wednesday
May 23, 2023

PROJECT BLDG2024-1

Itemized Proposal	Contractor					
	Waters Construction		B&W Paving		Grasso Companies	
Base Bid	\$	351,574.00	\$	336,640.00	\$	335,759.00
Alternate 1 (DPW Paving)	\$	86,667.00	\$	80,650.10	\$	97,470.00
Base Bid + Alternate 1	\$	438,241.00	\$	417,290.10	\$	433,229.00



Contract Staff Summary

Department/Staff Contact	Department of Public Works / Mateo Arias		
Common Council Committee	Public Works Committee		
Date Approved by Committee	June 4, 2024		
Purpose/Scope	Paving and Sidewalks at Various Locations		
Vendor (Indicate if new or existing vendor)	The Grasso Companies LLC.		
Term of Contract	One (1) Year		
Method of Procurement (Indicate if sole source)	Bid		
Cost of Contract	Base Bid: \$710,650.50 Alternate 2: \$383,700.00 20% Contingency: \$218,870.10		
Funding Source/Account Number	0922 4021 5777 C0021 0923 4021 5777 C0021 0924 4021 5777 C0021 0925 4021 5777 C0021 0921 4021 5777 C0440 0922 4021 5777 C0440 0924 4021 5777 C0440		
Additional Information/Other Details	Project 4367 PM2024-4 Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue		

11a & 11b



DEPARTMENT OF
ENGINEERING

CITY OF NORWALK
Mateo Arias
*Junior Engineer/Department
of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7739
marias@norwalkct.gov

MEMORANDUM

TO: Vanessa Valadares, P.E. – Chief of Operations and Public Works

CC: James Meehan, P.E. – Principal Engineer

FROM: Mateo Arias – Junior Engineer

RE: PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2)

DATE: May 29, 2024

The Department of Public Works has prepared plans for "Project PM2024-4. Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2)" This project consists of paving and sidewalks at various locations.

As part of this Project, the following work is proposed to be done:

- Paving at Various Locations – Base Bid
- Proposed Asphalt Sidewalks at Various Locations – Alternate 1
- Proposed Concrete Sidewalks at Various Locations – Alternate 2

The Purchasing Agent opened the bids for this project on May 23, 2024 and the apparent low bidder for the Base Bid + Alternate 2 is The Grasso Companies LLC, with a bid amount of \$1,094,350.50

I have attached a copy of the selection results received from the three (3) bidders for your reference, including an itemized comparing of the three (3) apparent low responsive bid results and Engineer's Estimate for your reference. Therefore, I would like to request that the following items be included on the Agenda for the June 4, 2024, Public Works Committee meeting.

1. Authorize the Mayor Harry W. Rilling, to execute an Agreement with The Grasso Companies LLC. for Purchasing Project 4367, PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2) for a sum not to exceed \$710,650.50 (Base Bid) plus \$383,700.00 (Alternate 2).

Account No.

0922 4021 5777 C0021
0923 4021 5777 C0021



**DEPARTMENT OF
ENGINEERING**

CITY OF NORWALK
Mateo Arias
*Junior Engineer/Department
of Engineering*
125 East Avenue
Norwalk, CT 06856
Office: 203 -854 7739
marias@norwalkct.gov

0924 4021 5777 C0021
0925 4021 5777 C0021
0921 4021 5777 C0440
0922 4021 5777 C0440
0924 4021 5777 C0440

2. Authorize the Chief of Operations and Public Works to execute Orders on Contract with The Grasso Companies LLC. for Purchasing Project 4367, PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2) for a sum not to exceed \$218,870.10.

Account No.

0922 4021 5777 C0021
0923 4021 5777 C0021
0924 4021 5777 C0021
0925 4021 5777 C0021
0921 4021 5777 C0440
0922 4021 5777 C0440
0924 4021 5777 C0440

A copy of the bid information from the Purchasing Department for Project 4367, PM2024-4 – Paving at Various Locations (Base Bid), Proposed Sidewalks on Richmond Hill Road, McAllister Avenue and Frances Avenue (Alternate 1 & 2) can be found at the link below.

<https://www.norwalkct.org/DocumentCenter/Index/1713>

Project Number : PM2024-4 (A)

Project Name : PROPOSED ON RICHMOND HILL ROAD, MCALLISTER AVENUE AND FRANCES AVENUE

Items	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
0202000	EARTH EXCAVATION	302	\$5.00	\$1,510.00	\$75.00	\$22,650.00	\$83.00	\$25,066.00	\$5.00	\$1,510.00
0213013A	3/4" CRUSHED & WASHED STONE BASE	302	\$40.00	\$12,080.00	\$32.00	\$9,664.00	\$380.00	\$114,760.00	\$25.00	\$7,550.00
0922001A	BITUMINOUS CONCRETE SIDEWALK	1,813	\$60.00	\$108,780.00	\$70.00	\$126,910.00	\$108.00	\$195,804.00	\$42.00	\$76,146.00
			\$122,370.00		\$159,224.00		\$335,630.00		\$85,206.00	

Apparent Low Bidder : THE GRASSO COMPANIES LLC

Second Bidder : BURNS CONSTRUCTION COMPANY, INC.

Third Bidder : B&W PAVING & LANDSCAPING, LLC

Project Number : PM2024-4 (AI)

Project Name : PROPOSED SIDEWALKS ON RICHMOND HILL ROAD, MCALLISTER AVENUE AND FRANCES AVENUE

Items	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
0202504A	REMOVAL OF BITUMINOUS CONCRETE CURBING	-3,200	\$1.50	(\$4,800.00)	\$2.50	(\$8,000.00)	\$5.25	(\$16,800.00)	\$5.00	(\$16,000.00)
0811001A	CONCRETE CURBING	3,200	\$45.00	\$144,000.00	\$67.50	\$216,000.00	\$85.00	\$272,000.00	\$14.00	\$44,800.00
0812000A	EXTRUDED CONCRETE CURB	-3,200	\$10.00	(\$32,000.00)	\$12.00	(\$38,400.00)	\$11.00	(\$35,200.00)	\$10.00	(\$32,000.00)
0921001A	CONCRETE SIDEWALK	16,000	\$14.00	\$224,000.00	\$18.00	\$288,000.00	\$19.50	\$312,000.00	\$20.00	\$320,000.00
0921011A	CONCRETE DRIVEWAY RAMP	3,500	\$15.00	\$52,500.00	\$21.00	\$73,500.00	\$31.50	\$110,250.00	\$20.00	\$70,000.00
			\$383,700.00		\$531,100.00		\$642,250.00		\$386,800.00	

Apparent Low Bidder : THE GRASSO COMPANIES LLC

Second Bidder : B&W PAVING & LANDSCAPING, LLC

Third Bidder : BURNS CONSTRUCTION COMPANY, INC.

Project Number : PM2024-4 (BA)
Project Name : PAVING AT VARIOUS LOCATIONS

Items	Description	Quantity	Apparent Low Bidder		Second Bidder		Third Bidder		Engineering's Estima	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
0202504A	REMOVAL OF BITUMINOUS CONCRETE CURBING	5,875	\$5.25	\$30,843.75	\$1.50	\$8,812.50	\$3.40	\$19,975.00	\$5.00	\$29,375.00
0406172A	HMA SUPERPAVE 0.375" (9.5) LEVEL 2	2,345	\$160.00	\$375,200.00	\$155.00	\$363,475.00	\$168.00	\$393,960.00	\$160.00	\$375,200.00
0406267A	BITUMINOUS CONCRETE MILLING (0" - 4")	26,572	\$3.75	\$99,645.00	\$6.00	\$159,432.00	\$5.70	\$151,460.40	\$5.00	\$132,860.00
0406998A	DENSITY ADJUSTMENT	1	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00
0406999A	ASPHALT ADJUSTMENT COST	1	\$17,000.00	\$17,000.00	\$17,000.00	\$17,000.00	\$17,000.00	\$17,000.00	\$17,000.00	\$17,000.00
0507042A	RESET CATCH BASIN	10	\$600.00	\$6,000.00	\$2,000.00	\$20,000.00	\$1,550.00	\$15,500.00	\$1,000.00	\$10,000.00
0811001A	CONCRETE CURBING	60	\$195.00	\$11,700.00	\$30.00	\$1,800.00	\$124.00	\$7,440.00	\$14.00	\$840.00
0812000A	EXTRUDED CONCRETE CURB	5,875	\$11.00	\$64,625.00	\$10.00	\$58,750.00	\$16.00	\$94,000.00	\$10.00	\$58,750.00
0921001A	CONCRETE SIDEWALK	480	\$20.75	\$9,960.00	\$10.00	\$4,800.00	\$35.00	\$16,800.00	\$20.00	\$9,600.00
0922001A	BITUMINOUS CONCRETE SIDEWALK	200	\$74.75	\$14,950.00	\$60.00	\$12,000.00	\$151.00	\$30,200.00	\$41.00	\$8,200.00
0924007A	HANDICAP RAMPS (ADA COMPLIANT)	48	\$57.45	\$2,757.60	\$500.00	\$24,000.00	\$125.00	\$6,000.00	\$45.00	\$2,160.00
0944003A	FURNISHING AND PLACING TOPSOIL	1,305	\$22.00	\$28,710.00	\$15.00	\$19,575.00	\$18.00	\$23,490.00	\$25.00	\$32,625.00
0950003A	TURF ESTABLISHMENT (LAWN)	1,305	\$6.50	\$8,482.50	\$2.00	\$2,610.00	\$5.80	\$7,569.00	\$5.00	\$6,525.00
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	264	\$8.50	\$2,244.00	\$4.00	\$1,056.00	\$2.25	\$594.00	\$2.50	\$660.00
1210124	24" WHITE EPOXY RESIN PAVEMENT MARKINGS	640	\$18.00	\$11,520.00	\$6.00	\$3,840.00	\$2.25	\$1,440.00	\$5.00	\$3,200.00
1302060A	RESET GATE BOXES	50	\$75.00	\$3,750.00	\$50.00	\$2,500.00	\$440.00	\$22,000.00	\$10.00	\$500.00
			\$698,387.85		\$710,650.50		\$818,428.40		\$698,495.00	

Apparent Low Bidder : BURNS CONSTRUCTION COMPANY, INC.

Second Bidder : THE GRASSO COMPANIES LLC

Third Bidder : B&W PAVING & LANDSCAPING, LLC



DEPARTMENT OF
ENGINEERING

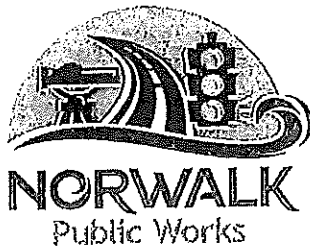
CITY OF NORWALK
Department of Engineering

Project: PM2024-4 PAVING AT VARIOUS LOCATIONS

BID OPENING: Wednesday
May 23, 2023

PROJECT PM2024-4

Itemized Proposal	Contractor		
	B&W Paving & Landscaping LLC	Burns Construction	Grasso Companies
Base Bid	\$ 818,428.40	\$ 698,387.85	\$ 710,650.50
Alternate 1 (Asphalt Sidewalk)	\$ 335,630.00	\$ 159,224.00	\$ 122,370.00
Alternate 2 (Concrete Sidewalk)	\$ 531,100.00	\$ 642,250.00	\$ 383,700.00
Base Bid + Alternate 1	\$ 1,154,058.40	\$ 857,611.85	\$ 833,020.50
Base Bid + Alternate 2	\$ 1,349,528.40	\$ 1,340,637.85	\$ 1,094,350.50



CITY OF NORWALK
Jose Ortiz
Road Supervisor & Deputy Tree
Warden

jortiz@norwalkct.org
15 South Smith Street
Norwalk, CT 06855

MEMORANDUM

TO: Chris Torre, Highway Superintendent & Tree Warden
FROM: Jose Ortiz, Road Supervisor & Deputy Tree Warden
DATE: March 1, 2024, 2024- April 1, 2024
RE: March 1, 2024, through April 1- Monthly Tree Status Report

Monthly Tree Status Report

- Tree Care & Maintenance: Trees located on Citywide Right-of-Way (Streets Trees), Parks, Beach, Schools, and City Vacant Land / Open spaces.

Summary of Work Completed

1. Removals

- a. Parks Property: 0 Trees Removed –
- b. School Property: 0 Trees Removed –
- c. City Right-of-Way: 5 Trees Removed – 1 Locust, 1 Pine, 1 Maple, 1 Ash, 1 Dogwood

2. Tree Safety Pruning

- a. Parks Property: 1 Trees Pruned – 1 Maple
- b. School Property: 3 Trees Pruned – 2 Oak, 1 Maple
- c. City Right-of-Way: 25 Trees Pruned – 3 Pine, 17 Pin Oak, 2 Maple, 1 Sycamore, 1 Oak, 1 Maple

3. Young Tree Training

- a. Parks Property: N/A
- b. School Property: N/A
- c. City Right-of-Way: N/A

4. Debris Removal from Storm Cleanup or High Wind Event

- a. Date of High Wind Event (3/11) Rain Event (3/11)

B

- b. Tree debris: 24 Locations
 - c. Date of Storm (3/11) Minor
- 5. Tree Stump Grinding
 - a. Parks Property: 10 Stumps
 - b. School Property: 3 Stumps
 - c. City Right-of-Way: 1 Stumps
- 6. Prune for Street Clearance
 - a. Parks Property: N/A
 - b. School Property: N/A
 - c. City Right-of-Way: 0 Trees Pruned-
- 7. Prune for line of sight on Streets.
 - a. Parks Property: N/A
 - b. School Property: N/A
 - c. City Right-of-Way: N/A
- 8. Prune for sidewalk clearance.
 - a. Parks Property: N/A
 - b. School Property: N/A
 - c. City Right-of-Way: N/A

Summary of Work Completed Parks Property

1. Calvin Murphy Dr (SR # 258331) Tree debris removed.
2. 34 Midrocks Dr (SR # 258332) Tree debris removed.
3. 94 Surrey Dr (SR # 258312) Tree debris removed.
4. Brookside School (SR # 258433) Tree pruned.
5. 42 Seaview Ave (SR # 258508) Tree stumps ground out.
6. Brookside School (SR # 258509) Tree stumps ground out.
7. Tracey Elementary School (SR # 258389) Tree pruned.
8. 157 Perry Ave (SR # 258610) Stumps ground out.

Summary of Work Completed City Right of Way

1. 4 Live Oak Rd (SR # 258016) Tree debris removed.
2. 15 Oak Hill Ave (SR # 258029) Tree debris removed.
3. 70 Weed Ave (SR # 258014) Tree debris removed.
4. 6 Tulip Tree La (SR # 258060) Tree debris removed.
5. 6 Thistle CT (SR # 258045) Tree debris removed.
6. 7 Arch St (SR # 258095) Trees pruned.
7. 26 Prospect St (SR # 256839) Tree pruned.
8. 192 Grumman Ave (SR # 256851) Trees pruned.
9. 1 Monroe St (SR # 258249) Trees pruned.
10. 1 Arrowhead CT (SR # 258299) Tree debris removed.

11. 5 Dock Rd (SR # 25 8320) Tree debris removed.
12. Roger Square (SR # 258314) Tree debris removed.
13. 14 Freedmond Dr (SR # 258300) Tree removed.
14. 21 Ellen St (SR # 258301) Tree debris removed.
15. 159 Grumman Ave (SR # 258302) Tree debris removed.
16. 11 Church St (SR # 258304) Tree debris removed.
17. 238 Fallow St (SR # 258306) Tree debris removed.
18. 28 Princes Pine Rd (SR # 258307) Tree debris removed.
19. 10 Knowalot La (SR # 258308) Tree debris removed.
20. 11 Fox Run Rd (SR # 258313) Tree debris removed.
21. 15 Cottage St (SR # 258317) Tree debris removed.
22. 274 Richards Ave (SR # 258337) Tree debris removed.
23. 15 Possum La (SR # 258288) Tree stump ground out.
24. 13 4th St (SR # 257892) Tree removed.
25. 24 Hyatt Ave (SR # 258350) Tree debris removed.
26. 45 Lakeview Ave (SR # 258305) Tree removed.
27. 6 Moscarriello Pl (SR # 258000) Tree debris removed.
28. 66 N Taylor Ave (SR # 258385) Tree removed.
29. 39 Witch La (SR # 258186) Tree pruned.
30. 38 Saint Mary's La (SR # 258547) Tree pruned.
31. 10 Rockridge Dr (SR # 258603) Tree debris removed.
32. 83 Dr Martin Luther King Jr Dr (SR # 258548) Trees pruned.
33. 10 Mott Ave (SR # 258613) Tree pruned.
34. 133 Patrick Ave (SR # 258600) Tree debris removed.
35. 13 Day St (SR # 258650) Tree pruned.

Summary of Work Completed by Contractor (Almstead Tree & Shrub Care Co.)

- 1.



To: Vanessa Valadares , Chief of Operations and Public Works
Chris Torre, Superintendent of Operations
Thomas Szabo, Waste Programs Manager
Monique Cipriano, Administrative Assistant

From: Dilene Byrd, Administrative Assistant

Date: 5/23/24

Re: MSW and Recycling Report - April, 2024

MSW Collection and Disposal				
Municipal Solid Waste (MSW)	Previous FY: Apr-23	Current FY: Apr-24	Change	FY 23/24 Cumulative
Curbside tonnage	1,079.24	1,299.71	20.4%	12,893.00
MSW tonnage out	1,883.31	2,207.23	17.2%	20,867.04
Transfer station operating fee	\$73,791.67	\$73,000.00	-1.1%	\$730,000.00
Transport and disposal fee	\$182,681.07	\$214,101.31	17.2%	\$2,024,102.88
Curbside collection fee	\$107,528.17	\$176,250.00	63.9%	\$1,762,500.00
Total operating costs (less curbside)	\$256,472.74	\$287,101.31	11.9%	\$2,754,102.88

MSW Consolidated Budget	
FY 23/24 Budget	\$5,325,499.00
Amount expended	\$4,516,602.88
Percent remaining	15.2%

Recycling Collection				
Recycling Collection	Previous FY: Apr-23	Current FY: Apr-24	Change	FY 23/24 Cumulative
Curbside tonnage	637.20	721.68	13.3%	7,476.48
Transfer station tonnage	30.28	31.02	2.4%	31.02
Total monthly tonnage	667.48	752.70	12.8%	752.70
Curbside collection fee	\$104,381.92	\$142,112.10	36.1%	\$1,596,332.73

Recycling Budget	
FY 23/24 Budget	\$2,322,480.00
Amount expended	\$1,596,332.73
Percent Remaining	31.3%

MSW and Recycling Revenues				
MSW and Recycling Revenues	Previous FY: Apr-23	Current FY: Apr-24	Change	FY 23/24 Cumulative
Transfer station tip fees	\$50,940.85	\$76,202.21	49.6%	\$638,511.81
Recycling revenue (curbside)	\$11,151.00	\$0.00	-100.0%	\$0.00
Recycling revenue (T.S.)	\$529.90	\$0.00	-100.0%	\$0.00
Total revenues	\$62,621.75	\$76,202.21	21.7%	\$638,511.81

C

City of Norwalk
FY 2022-2023
Pilot Food Scrap Drop-Off Program

Date of Collection	Location of Collection	Service Fee	Number of Toters	Weight of Food Scraps (lbs)	Per Toter Fee	Total Collection Cost	Total Monthly Cost	Total Monthly Weight (Lbs)	Total Monthly Weight (Tons)	%
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FY 23/24 (July 1, 2023 - June 30 2024)							\$6,650	177,750	88.88	100%
	Transfer Station							63,300	31.65	36%
	Rowayton Community Center							81,000	40.50	46%
	Cranbury Park							38,850	19.43	22%

FY 22/23 (July 1, 2022 - June 30 2023)							\$6,740	159,750	79.88	100%
	Transfer Station							60,600	30.30	38%
	Rowayton Community Center							75,750	37.88	47%
	Cranbury Park							23,400	11.70	15%

FY 21/22 (July 1, 2021 - June 30 2022)							\$8,225	118,500	59.25	100%
	Transfer Station							39,000	19.50	33%
	Rowayton Community Center							79,500	39.75	67%

FY 20/21 (July 1, 2020 - June 30, 2021)							\$10,340	109,350	54.68	100%
	Transfer Station							38,550	19.28	35%
	Rowayton Community Center							70,800	35.40	65%

7

City of Norwalk

FY 2022-2023

Pilot Food Scrap Drop-Off Program

Date of Collection	Location of Collection	Service Fee	Number of Toters	Weight of Food Scraps (lbs)	Per Toter Fee	Total Collection Cost	Total Monthly Cost	Total Monthly Weight (Lbs)	Total Monthly Weight (Tons)	%
3/5/2024	Norwalk Transfer	\$65	4	1,200	\$10	\$105	RCC	5,400	2.70	37.5%
3/5/2024	Cranbury Park	\$65	3	900	\$10	\$95	CRANBURY PARK	3,000	1.50	20.8%
3/12/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115	\$1,260.00	14,400	7.20	100%
3/12/2024	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
3/12/2024	Cranbury Park	\$65	3	900	\$10	\$95				
3/19/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
3/19/2024	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
3/19/2024	Cranbury Park	\$65	3	900	\$10	\$95				
3/26/2024	Rowayton Community Center	\$65	6	1,800	\$10	\$125	TS	4,800	2.40	32.7%
3/26/2024	Norwalk Transfer	\$65	3	900	\$10	\$95	RCC	6,300	3.15	42.9%
3/26/2024	Cranbury Park	\$65	3	900	\$10	\$95	CRANBURY PARK	3,600	1.80	24.5%
4/2/2024	Cranbury Park	\$65	3	900	\$10	\$95	\$1,320.00	14,700	7.35	100%
4/9/2024	Cranbury Park	\$65	3	900	\$10	\$95				
4/16/2024	Cranbury Park	\$65	4	1,200	\$10	\$105				
4/23/2024	Cranbury Park	\$65	4	1,200	\$10	\$105				
4/2/2024	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
4/9/2024	Norwalk Transfer	\$65	3	900	\$10	\$95				
4/16/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
4/23/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
4/3/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
4/9/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
4/16/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
4/23/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
4/30/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115	TS	6,000	3.00	32.3%
							RCC	7,500	3.75	40.3%
							CRANBURY PARK	5,100	2.55	27.4%
							\$1,340.00	18,600	9.30	100%
FY 23/24 Totals				177,750		\$6,650			88.88	

City of Norwalk
FY 2022-2023
Pilot Food Scrap Drop-Off Program

Date of Collection	Location of Collection	Service Fee	Number of Toters	Weight of Food Scraps (lbs)	Per Toter Fee	Total Collection Cost	Total Monthly Cost	Total Monthly Weight (Lbs)	Total Monthly Weight (Tons)	%
12/12/2023	Rowayton Community Center	\$65	7	2,100	\$10	\$135				
12/12/2023	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
12/12/2023	Cranbury Park	\$65	3	900	\$10	\$95				
12/19/2023	Rowayton Community Center	\$65	7	2,100	\$10	\$135				
12/19/2023	Cranbury Park	\$65	3	900	\$10	\$95				
12/19/2023	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
12/27/2023	Rowayton Community Center	\$65	6	1,800	\$10	\$125				
12/27/2023	Cranbury Park	\$65	3	900	\$10	\$95				
12/27/2023	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
1/3/2024	Cranbury Park	\$65	3	900	\$10	\$95				
1/3/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125	TS	7,500	3.75	31.6%
1/3/2024	Rowayton Community Center	\$65	7	2,100	\$10	\$135	RCC	12,300	6.15	51.9%
1/9/2024	Cranbury Park	\$65	4	1,200	\$10	\$105	CRANBURY PARK	3,900	1.95	16.5%
1/9/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125	\$1,765.00	23,700	11.85	100%
1/9/2024	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
1/15/2024	Rowayton Community Center	\$65	6	1,800	\$10	\$125				
1/16/2024	Cranbury Park	\$65	4	1,200	\$10	\$105				
1/16/2024	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
1/23/2024	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
1/23/2024	Cranbury Park	\$65	2	600	\$10	\$85				
1/24/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
1/30/2024	Rowayton Community Center	\$65	2	600	\$10	\$85	TS	8,400	4.20	41.2%
1/30/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125	RCC	7,200	3.60	35.3%
1/30/2024	Cranbury Park	\$65	3	900	\$10	\$95	CRANBURY PARK	4,800	2.40	23.5%
2/6/2024	Cranbury Park	\$65	3	900	\$10	\$95	\$1,655.00	20,400	10.20	100%
2/6/2024	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
2/6/2024	Rowayton Community Center	\$65	6	1,800	\$10	\$125				
2/12/2024	Cranbury Park	\$65	3	900	\$10	\$95				
2/12/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
2/13/2024	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
2/20/2024	Cranbury Park	\$65	2	600	\$10	\$85				
2/20/2024	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
2/20/2024	Rowayton Community Center	\$65	3	900	\$10	\$95				
2/27/2024	Cranbury Park	\$65	2	600	\$10	\$85				
2/27/2024	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
2/27/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115	TS	6,000	3.00	41.7%
3/5/2024	Rowayton Community Center	\$65	5	1,500	\$10	\$115				

City of Norwalk
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Date of Collection	Location of Collection	Service Fee	Number of Toters	Weight of Food Scraps (lbs)	Per Toter Fee	Total Collection Cost	Total Monthly Cost	Total Monthly Weight (Lbs)	Total Monthly Weight (Tons)	%
10/4/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105	\$1,270.00	14,700	7.35	100%
10/4/2023	Cranbury Park	\$65	2	600	\$10	\$85				
10/11/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
10/11/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
10/11/2023	Cranbury Park	\$65	2	600	\$10	\$85				
10/18/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
10/18/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
10/18/2023	Cranbury Park	\$65	5	1,500	\$10	\$115				
10/25/2023	Rowayton Community Center	\$65	6	1,800	\$10	\$125				
10/25/2023	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
10/25/2023	Cranbury Park	\$65	2	600	\$10	\$85	TS	6,300	3.15	39.6%
10/30/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105	RCC	6,300	3.15	39.6%
11/1/2023	Cranbury Park	\$65	4	1,200	\$10	\$105	CRANBURY PARK	3,300	1.65	20.8%
11/3/2023	Norwalk Transfer	\$65	6	1,800	\$10	\$125	\$1,375.00	15,900	7.95	100%
11/3/2023	Rowayton Community Center	\$65	8	2,400	\$10	\$145				
11/6/2023	Norwalk Transfer	\$65	5	1,500	\$10	\$115				
11/8/2023	Cranbury Park	\$65	5	1,500	\$10	\$115				
11/10/2023	Rowayton Community Center	\$65	17	5,100	\$10	\$235				
11/10/2023	Norwalk Transfer	\$65	3	900	\$10	\$95				
11/13/2023	Norwalk Transfer	\$65	2	600	\$10	\$85				
11/15/2023	Cranbury Park	\$65	4	1,200	\$10	\$105				
11/17/2023	Rowayton Community Center	\$65	10	3,000	\$10	\$165				
11/17/2023	Norwalk Transfer	\$65	3	900	\$10	\$95				
11/17/2023	Rowayton Community Center	\$65	2	600	\$10	\$85	TS	9,300	4.65	27.9%
11/19/2023	Rowayton Community Center	\$65	4	1,200	\$10	\$105	RCC	18,000	9.00	54.1%
11/20/2023	Norwalk Transfer	\$65	3	900	\$10	\$95	CRANBURY PARK	6,000	3.00	18.0%
11/22/2023	Cranbury Park	\$65	3	900	\$10	\$95	\$2,410.00	33,300	16.65	100%
11/24/2023	Norwalk Transfer	\$65	3	900	\$10	\$95				
11/24/2023	Rowayton Community Center	\$65	8	2,400	\$10	\$145				
11/24/2023	Norwalk Transfer	\$65	6	1,800	\$10	\$125				
11/28/2023	Rowayton Community Center	\$65	11	3,300	\$10	\$175				
11/28/2023	Cranbury Park	\$65	4	1,200	\$10	\$105				
12/1/2023	Rowayton Community Center	\$65	7	2,100	\$10	\$135				
12/1/2023	Norwalk Transfer	\$65	3	900	\$10	\$95				
12/1/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
12/5/2023	Rowayton Community Center	\$65	9	2,700	\$10	\$155				
12/5/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
12/5/2023	Cranbury Park	\$65	4	1,200	\$10	\$105				

City of Norwalk
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Date of Collection	Location of Collection	Service Fee	Number of Toters	Weight of Food Scraps (lbs)	Per Toter Fee	Total Collection Cost	Total Monthly Cost	Total Monthly Weight (Lbs)	Total Monthly Weight (Tons)	%
7/3/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
7/6/2023	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
7/7/2023	Cranbury Park	\$65	1	150	\$10	\$75				
7/11/2023	Norwalk Transfer	\$65	2	600	\$10	\$85				
7/12/2023	Norwalk Transfer	\$65	2	300	\$10	\$85				
7/13/2023	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
7/14/2023	Cranbury Park	\$65	5	1,500	\$10	\$115				
7/18/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
7/20/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
7/25/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
7/26/2023	Rowayton Community Center	\$65	4	1,200	\$10	\$105	TS	5,700	2.85	43%
7/28/2023	Cranbury Park	\$65	3	900	\$10	\$95	RCC	5,100	2.55	38%
7/31/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105	CRANBURY PARK	2,550	1.28	19%
8/3/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115	\$1,305.00	13,350	6.68	100%
8/4/2023	Cranbury Park	\$65	1	300	\$10	\$75				
8/7/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
8/9/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
8/11/2023	Cranbury Park	\$65	5	1,500	\$10	\$115				
8/14/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
8/16/2023	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
8/18/2023	Cranbury Park	\$65	0	0	\$10	\$65				
8/21/2023	Norwalk Transfer	\$65	3	900	\$10	\$95				
8/23/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
8/25/2023	Cranbury Park	\$65	2	600	\$10	\$85				
8/28/2023	Norwalk Transfer	\$65	4	1,200	\$10	\$105	TS	4,500	2.25	32%
8/30/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115	RCC	7,200	3.60	51%
09/06/23	Norwalk Transfer	\$65	1	300	\$10	\$75	CRANBURY PARK	2,400	1.20	17%
09/07/23	Rowayton Community Center	\$65	5	1,500	\$10	\$115	\$1,315.00	14,100	7.05	100%
09/08/23	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
09/08/23	Cranbury Park	\$65	4	1,200	\$10	\$105				
09/12/23	Norwalk Transfer	\$65	3	900	\$10	\$95				
09/13/23	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
09/19/23	Norwalk Transfer	\$65	4	1,200	\$10	\$105				
09/20/23	Rowayton Community Center	\$65	5	1,500	\$10	\$115				
09/20/23	Cranbury Park	\$65	7	2,100	\$10	\$135				
09/27/23	Rowayton Community Center	\$65	4	1,200	\$10	\$105				
09/27/23	Cranbury Park	\$65	3	900	\$10	\$95	TS	4,800	2.40	32.7%
09/27/23	Norwalk Transfer	\$65	4	1,200	\$10	\$105	RCC	5,700	2.85	38.8%
10/4/2023	Rowayton Community Center	\$65	5	1,500	\$10	\$115	CRANBURY PARK	4,200	2.10	28.6%