

Highway Agency
Stormwater Pollution
Prevention Plan

County of Union


NJD0153320

9/1/2023

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SPPP Form 1 – SPPP Team Members

Stormwater Program Coordinator (SPC)	
Print Name and Title	Ricardo Matias, County Engineer
Office Phone # and Email	908-789-3675 ricardo.matias@ucnj.org
Signature and Date	 9/1/2023
Individual Responsible for Major Development Project Stormwater Management Review Please see training requirements for stormwater management reviewers on Form 13.	
Print Name and Title/Affiliation	Ricardo Matias, County Engineer
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Print Name and Title/Affiliation	
Other SPPP Team Members	
Print Name and Title/Affiliation	Kelly Martins, Public Information Office
Print Name and Title/Affiliation	Bruce Bergen, County Counsel
Print Name and Title/Affiliation	Charles Lombardo, Employee Training Coordinator
Print Name and Title/Affiliation	Joseph Policay, Director of Public Works

SPPP Form 3 – Public Involvement and Participation Including Public Notice

Website where the Stormwater Pollution Prevention Plan (SPPP) is posted online:	www.uncj.org
Physical Location and/or website where records of public notices, meeting dates, minutes, etc. are kept:	<p style="text-align: center;">County of Union Division of Engineering 2325 South Avenue Scotch Plains, NJ 07076</p>
Describe how the permittee complies with applicable state and local public notice requirements when providing for public participation in the development and implementation of its MS4 stormwater program:	
<p>For any meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law", N.J.S.A. 10:4-6 et seq.), the COUNTY OF UNION provides public notice in a manner that complies with the requirements of that Act. Also, in regard to the county budget, the COUNTY OF UNION provides public notice in a manner that complies with the requirements of the Local Budget Law, N.J.S.A. 40A:4-1 et seq. For resolutions of the COUNTY OF UNION's Board of County Commissioners that provide a penalty for violation thereof, the COUNTY OF UNION provides public notice that complies with the requirements of N.J.S.A. 40:24-3.</p>	

SPPP Form 4 – Public Education and Outreach

This is only required for Highway Agencies that own or operate rest areas and/or service areas.

5 Point System: Each year, Highway Agencies that own or operate rest areas and/or service areas must conduct activities related to educating the public on stormwater pollution prevention. Sample activities include posting stormwater information on their website or social media, running local ads, posting signs at green infrastructure sites, posting stormwater signs, billboards, or murals at rest/service areas, presenting a stormwater related display or materials at rest/service areas, and providing pet waste bags at rest/service areas.

Permittees must earn at least 5 points as described in Attachment B of the permit. Describe how you are meeting the minimum 5-point requirement.

The County of Union owns and operates a combination of eleven (11) facilities comprised of the following maintenance and fueling areas:

1. Galloping Hill Yard (Golf & DPW) – 21 North 31st Street, Kenilworth NJ
2. Ashbrook Yard (Gold & DPW) – 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)
3. Warinanco Park Yard – 114 Acme Street, Elizabeth NJ
4. Echo Lake Park Yard – Park Drive, Echo Lake Park, Mountainside NJ
5. Cedar Brook Park Yard – Mathewson Drive, Cedar Brook Park, Plainfield NJ
6. Houdaille Quarry – 301 Shunpike Road, Springfield, NJ
7. Scotch Plains Yard – 2371 South Avenue, Scotch Plains, NJ
8. Oak Ridge Park Yard – 136 Oak Ridge Avenue, Clark, NJ
9. Rahway River Park Yard – Parkway Drive, Rahway, NJ
10. Watchung Stables – 1160 Summit Lane, Mountainside, NJ
11. Public Safety Complex – 300 North Avenue, Westfield, NJ

The County has determined that the most efficient way to provide for public education on the required topics at these areas is to post the following signs as appropriate: 1) "NO FEEDING OF WILDLIFE" 2) "CLEAN UP PET WASTE" 3) "NO LITTERING"

Records: Indicate where public education and outreach records are maintained.

2325 South Avenue, Scotch Plains, NJ & on ucnj.org

SPPP Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program

<p>Major Development: How does the permittee define ‘major development’?</p>
<p>“Major development” means an individual “development,” as well as multiple developments that individually or collectively result in: 1. The disturbance of one or more acres of land since February 2, 2004; 2. The creation of one-quarter acre or more of “regulated impervious surface” since February 2, 2004; 3. The creation of onequarter acre or more of “regulated motor vehicle surface” since March 2, 2021; or 4. A combination of 2 and 3 above that totals an area of one-quarter acre or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.</p>
<p>Approval Process: Describe the process for reviewing and approving major development project applications for compliance with the stormwater management rules at N.J.A.C. 7:8 et seq. Attach a flow chart if available. Provide the location of the mitigation plan (if one exists) to allow for alternative locations or designs.</p>
<p>All development plans will be designed by hired consultants and reviewed by the County Engineer for compliance with the stormwater management rules of NJAC 7:8 et seq.</p>
<p>Records: Indicate the location of approved applications for major development projects.</p>
<p>Physical copies of the construction plans shall be located at the County Engineers Office at 2325 South Avenue, Scotch Plains NJ 07076.</p>

SPPP Form 6 – Regulatory Mechanisms

Regulatory Mechanism	Date of Adoption	Website	Entity Responsible for Enforcement
1. Pet Waste Control Permit cite IV.B.5.a.i.	N/A	N/A	N/A
2. Wildlife Feeding Control Permit cite IV.B.5.a.ii.	4/1/2005	N/A	County Police
3. Litter Control Permit cite IV.B.5.a.iii.	3/10/2005	N/A	County Police
4. Improper Disposal of Waste Permit cite IV.B.5.a.iv.	N/A	N/A	N/A
5. Illicit Connection Prohibition Permit cite IV.B.5.a.vii.	N/A	N/A	N/A
<p>Records: Indicate the location of records associated with the regulatory mechanisms above and related enforcement actions.</p>			
<p>2325 South Avenue, Scotch Plains, NJ 07076</p>			

SPPP Form 7 – Litter Pick-Up Program

<p>Roadside Clean-up: Describe the program and schedule for roadside clean-up of trash and debris.</p>
<p>Trash is collected and picked up from all locations where public trash cans are available.</p> <p>Garbage and refuse are collected from Union County's 30 parks and 2 golf courses on a regular basis. A refuse truck is deployed with a 3-man crew in each of the County's 5 geographical sections every Monday and Friday throughout the year. During the heavier park use months of the summer, trucks area also an additional day as needed and on weekends that are expected to be unusually busy, such as holidays or during large public events. On occasion refuse crews may be sent out on Saturdays and Sundays as well. Besides emptying refuse cans into the packer trucks, the crew also has a standing assignment to pick up litter as needed, in picnic areas, on ballfields and open lawns, and along roadsides. After large public events, litter pick-up efforts are supplemented with workers from the Sheriff's Labor Assistance Program.</p>
<p>Rest/Service Area Trash/Recycling Collection: For Highway Agencies that own or operate rest/service areas, describe the program and schedule for regular collection of trash from litter and recycling receptacles at those locations.</p>
<p>N/A</p>
<p>Records: Indicate the location of records, including the dates and amount of materials collected from roadside clean-ups.</p>
<p>Records are kept at the Springfield Recycling Center.</p>

SPPP Form 8 – Street Sweeping

<p>Street Locations: Attach a map or describe the location of all streets and paved parking lots that are owned or operated by the permittee.</p> <ul style="list-style-type: none">a. Indicate which segments of limited-access roads have storm drain inlets or discharge directly to surface water.b. Indicate which segments of non-limited-access roads have storm drain inlets or discharge directly to surface water.c. Indicate which segments of roads do not have storm drain inlets or do not discharge directly to surface water.
<p>See Attached map.</p> <ul style="list-style-type: none">a) No roadways have limited-accessb) All roadways have storms drainsc) N/A
<p>Schedule: Describe the sweeping schedule for all streets and paved parking lots that are owned or operated by the permittee.</p>
<p>The COUNTY OF UNION has been sweeping its roads which require monthly sweeping under the Highway Permit and will continue the monthly street sweeping program of those roads. See attached Sweeping Schedule.</p>
<p>Records: Indicate the location of records, including sweeping dates, areas swept, number of miles swept, and total amount of materials collected each month.</p>
<p>The records are kept at the Springfield Recycling Facility. The County Maintains a sweeping schedule which is included and attached.</p>

SPPP Form 9 – Herbicide Application and Roadside Vegetative Waste Management

Herbicide Application Management: Describe the program for ensuring the proper application of herbicides. Include details about how the permittee ensures that herbicides are not washed into waters of the State and how they prevent erosion caused by de-vegetation.

In accordance with the Highway Permit, the COUNTY OF UNION no longer applies herbicides outside the prescribed radius of two (2) feet around any structure for which it is impractical to mow around.

Roadside Vegetative Waste Management: Describe the program for ensuring that wood waste and yard trimmings generated by the permittee are not blown or deposited into stormwater facilities, e.g., storm drain inlets and basins.

Wood waste and yard trimmings include the following: tree parts, brush, wood chips, leaves, untreated/unpainted lumber, and grass clippings.

All wood debris, wood waste, trimmings generated by the County are moved to the Springfield Recycling Facility.

SPPP Form 10 – Maintenance Yards and Other Ancillary Operations

Complete a separate Form 10 for each yard/location. This includes but is not limited to all maintenance yards, impound yards, fueling locations, and yard trimming/wood waste management sites.

1. Address of maintenance yard or ancillary operation.
2325 South Avenue, Scotch Plains, NJ 07076
2. List all materials that are exposed to stormwater which could be a source of pollutants in a stormwater discharge. Indicate what type of container the materials are in, if they are covered, what they are placed upon, and if the area is graded or contained by berms. This includes, but is not limited to, raw materials, intermediate products, final products, waste materials, by-products, fuels, lubricants, solvents, and detergents. For example, brine, fertilizer, used oil, refuse containers, etc.
N/A
3. List all machinery that is exposed to stormwater which could be a source of pollutants in a stormwater discharge.
N/A
4. Describe the procedures for cleaning spills and disposing of clean-up waste. Indicate the location of materials used for cleaning, e.g., kitty litter, sawdust, etc.
Absorbent is used if/when any materials are spilled. The absorbent is then properly disposed of following the manufactures recommendations.
5. For each category below, describe the best management practices in place to ensure compliance with all requirements in the permit.
a. Fueling Operations
Fueling operations are handled at the various locations noted in the appendix.

b. Discharge of Stormwater from Secondary Containment
<p>Any discharge of Stormwater from Secondary Containment that may be encounter is disposed of by having it enter the local sanitary sewer or by having it removed by a 3rd party.</p>
c. Vehicle Maintenance
<p>Vehicle Maintenance is conducted in the covered portion of the DPW yard at 2327 South Avenue, Scotch Plains, NJ.</p>
d. On-Site Equipment and Vehicle Washing/Wastewater Containment See permit for certification and log forms for Underground Storage Tanks.
<p>A wash station is available for the washing of equipment and vehicles at 2327 South Avenue. An oil water separator is available on site.</p>

<p>e. Salt and De-icing Material Storage and Handling</p>
<p>Salt and De-icing material is stored in a covered dome facility at 2327 South Avenue, Scotch Plains, NJ.</p>
<p>f. Aggregate Material and Construction Debris Storage</p>
<p>No aggregate material is stored uncovered and all construction debris is hauled to the Houdaille Quarry and placed in containers.</p>
<p>g. Street Sweepings, Catch Basin Clean Out, and Other Material Storage</p>
<p>All street sweepings, catch basin clean out material is disposed of by a third part entity.</p>

h. Yard Trimmings and Wood Waste Management

All yard trimmings and woody waste is hauled to the Class C facility at the Houdaille Quarry.

Records: Indicate the location of inspection logs and tracking forms associated with this maintenance yard or ancillary operation, including documentation of conditions requiring attention and remedial actions that have been taken or planned. Documentation should include the date and time of inspection, the name of the person conducting the inspection, and relevant findings.

All records are kept at the Houdaille Quarry.

SPPP Form 11 – Storm Drain Inlets

Storm drain inlets are the point of entry into the storm drain system.

<p>Inspections: Describe the program and frequency of inspections, cleaning, and maintenance of storm drain inlets that are owned or operated by the permittee.</p>
<p>Storms drains are inspected at a minimum of once per year following the posted schedule which is attached and available.</p>
<p>Design and Retrofitting: Describe how the permittee ensures that the current design standards for storm drain inlets (specified in permit Attachment C) are incorporated in development projects. Also describe how the permittee ensures that retrofitting of storm drain inlets is completed when required.</p>
<p>The county ensures all retrofitting is done during the annual re-paving program.</p>
<p>Labeling: Describe the inspection and label maintenance plan on storm drain inlets that do not have permanent wording cast into the design.</p>
<p>The County has converted the majority of the storm drains to meet the phase 2 requirements. Any additional inlets that are founding during the repaving program are included in the project.</p>
<p>Records: Indicate the location of records that include storm drain inlet locations, inspection dates, observations, and maintenance/repairs performed, if applicable.</p>
<p>The County uses the basin cleaning schedule for the annual inspection and cleaning. Any necessary repairs are completed immediately by the County DPW team.</p>

SPPP Form 12 – Catch Basins

Catch basins are the cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris and pollutants.

Inspections: Describe the program for inspections of catch basins that are owned or operated by the permittee.

The basin are inspected and cleaned as described above.

Cleaning and Maintenance: Describe when a catch basin must be cleaned. The program must include procedures for cleaning, and shall be implemented as frequently as necessary to ensure, at a minimum, that sediment, trash, or other debris is removed as necessary to control it from entering the waters of the State, to eliminate recurring problems and maintain proper function.

A Catch basin must be cleaned when the following is observed:

- Debris, including leaves, brush and garbage are covering the grate.
- Water appears to be flowing slowly into the grate.
- The basin grate does not appear to be accepting water flow.
- When water is observed in the basin during dry weather.
- When water is observed moving slowly within the catch basin.
- When debris is observed within the catch basin itself.
-

Records: Indicate the location of records that include catch basin locations, inspection dates, observations, amount of materials collected in wet tons and maintenance/repairs performed, if applicable.

A record of the catch basin debris is kept at the Houdaille Quarry.

SPPP Form 13 – Employee Training

Employee Training: Stormwater Program Coordinator (SPC) must ensure appropriate staff receive training on topics in the chart below.		
Topic	Frequency	Office/Entity Responsible for Training
1. Maintenance Yard/Ancillary Operations	Once per year	County Engineer / Outside Consultant
2. Stormwater Facility Maintenance	Once per year	County Engineer / Outside Consultant
3. SPPP Training & Recordkeeping	Once per year	County Engineer / Outside Consultant
4. Street Sweeping	Once per year	County Engineer / Outside Consultant
5. Illicit Connections & Outfall Mapping	Once per year	County Engineer / Outside Consultant
6. Outfall Stream Scouring	Once per year	County Engineer / Outside Consultant
7. Waste Disposal Education	Once per year	County Engineer / Outside Consultant
8. Regulatory Mechanisms	Once per year	County Engineer / Outside Consultant
9. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Once per year	County Engineer / Outside Consultant
Records: Indicate the location of associated training sign in sheets, dates, and agendas or description for each topic for employee training.		
The sign in sheets are available through the County Engineer and the Training Coordinator located at 2325 South Avenue, Scotch Plains, NJ.		
Stormwater Management Reviewer Training: Indicate the names of all individuals who review the stormwater management design for development and redevelopment projects on behalf of the permittee. Indicate the dates on which these individuals attended the required NJDEP training course.		
Ricardo Matias, County Engineer – May 2018		

SPPP Form 14 – Mapping Outfall Pipes and Stormwater Facilities

Visit https://www.nj.gov/dep/dwq/msrp_map_aid.htm for the NJ DEP free mapping application. Outfall pipe maps and stormwater facilities maps may be combined. Updates to these maps shall be submitted annually to include new or newly identified outfall pipes and stormwater facilities.

Mapping Outfall Pipes: Attach an image or provide a link to a map of the outfall pipes owned or operated by the permittee, showing the location of the end of all MS4 outfall pipes (in tidal and non-tidal receiving waters) owned or operated by the permittee which discharge to a surface water body. Include the location and name of all surface water bodies receiving discharges from those outfall pipes.

Map is attached.

Mapping Stormwater Facilities: Attach an image or provide a link to a map of the stormwater facilities owned or operated by the permittee. Include the property boundaries of the Highway Agency maintenance yards, ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee. The map shall include the location and type of each stormwater facility, e.g., outfalls, inlets (constructed after Jan 1, 2020), basins, subsurface infiltration/detention systems, MTDs, green infrastructure, etc.

Map of DPW service yard is attached.

SPPP Form 15 – Outfall Pipe Inspections

Inspection Schedule: Describe the frequency and the program in place for inspecting outfall pipes owned or operated by the permittee.

The COUNTY OF UNION is developing and will implement a stormwater outfall pipe stream scouring detection, remediation and maintenance program to detect and control localized stream and bank scouring in the vicinity of the highway system outfall pipes operated by the County. The initial steps of this effort have been coordinated and completed with the mapping and inspections of outfall pipes. Outfall pipes found to have scouring will be prioritized in the order in which they will need to be repaired. To help in prioritizing the outfall pipes, the scouring found at each outfall site will be photographed. A schedule will be established for repairs, beginning with the outfall pipes most in need of remediation or those with easy access. In addition, repairs that do not need any NJDEP permits or other local, State or Federal permits may be done first. All repairs will be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey.

Stream Scouring: Describe the program in place to detect, investigate and control localized stream scouring from stormwater outfall pipes.

As the outfalls are inspected per the above, scouring will also be investigated.

Illicit Discharges: Describe the program in place for conducting visual dry weather inspections of outfall pipes that are owned or operated by the permittee.

As the outfalls are inspected per the above, dry weather flow will be inspected.

Records: Indicate the location of all records related to outfall pipe inspection, including the location, inspection date, inspector name, findings, preventative and corrective maintenance performed.

If scouring is observed, records of stream scouring must include the contributing source(s) of stormwater, recommended corrective action, and a prioritized list and schedule to remediate scouring cases.

If illicit discharge is observed, record results of illicit discharge investigations and actions taken using NJDEP's form at https://www.nj.gov/dep/dwq/public_complex/pdf/PC_Illicit%20Connection%20Inspection%20Report%20Formpdf.pdf. Illicit Connection Inspection Report Forms shall be submitted to the Department as an attachment to the Annual Report and Certification.

2325 South Avenue, Scotch Plains, NJ

SPPP Form 16 – Stormwater Facilities Inspection and Maintenance

Inspections: Describe the program in place to inspect, clean, and maintain the stormwater facilities that are owned or operated by the permittee.

The program includes the following:

- Each location where stormwater facilities are located has a dedicated maintenance team.
- Each maintenance team is responsible for stormwater maintenance on their respective site.
- At a minimum of once per year the stormwater facility is inspected and if necessary cleaned.
- Should the inspection demonstrate the need for maintenance, a worked order is input into the County Work Order system.

Records: Indicate the location of records related to stormwater facilities that are owned or operated by the permittee. Records must include the type of stormwater facility, location, inspection date, inspector name, findings, preventative and corrective maintenance performed.

Also indicate the location of maintenance plans related to maintenance of stormwater facilities that are owned or operated by the permittee. NJDEP provides materials to assist with this requirement at https://www.nj.gov/dep/stormwater/maintenance_guidance.htm.

As maintenance is required work orders are placed into the work order system.

SPPP Form 17 – Total Maximum Daily Load (TMDL) Information

Identification: List the names of the adopted TMDLs, parameters addressed, and the affected water bodies associated with any segment of surface water wholly or partially within or bordering all maintenance yards, rest areas, service area properties, and new major development projects as defined by the permittee's stormwater program.

Refer to the list of TMDL reports provided at <http://www.nj.gov/dep/wms/bears/tmdls.html>. Utilize the TMDL look-up tool at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm> to identify impaired water bodies at locations described above.

N/A

Strategies: Describe how the permittee uses TMDL information to prioritize stormwater facilities maintenance projects and to address specific sources of stormwater pollutants. For guidance on TMDLs, visit <https://www.nj.gov/dep/dwq/pdf/10-21-16-tmdl-tool-box.pdf>.

N/A

SPPP Form 18 – Additional Measures and Optional Measures

Additional Measures: Describe any Best Management Practice(s) and the related measurable goal or numeric effluent limitations that are expressly required by the Department to be included in the permittee’s stormwater program by a TMDL.

See Attached on Good Housekeeping.

Optional Measures: Describe any Best Management Practice(s) the permittee has developed that extend beyond the requirements of the permit that prevents or reduces water pollution.

See Attached on Good Housekeeping.

SPPP Form 19 – Shared or Contracted Services

Arrangements: List the permit conditions that are satisfied through a shared or contracted service where an entity other than the permittee is implementing BMP(s) or control measure(s) on behalf of the permittee. Include the name of the responsible entity and describe the arrangements in place.

There is a shared service with several municipalities where the County provides Salt during snow operations:

Berkeley Heights

Garwood

Linden

Springfield

Records: The permittee is responsible for maintaining the appropriate documentation related to permit conditions, including those satisfied through shared services, in the SPPP and on the Annual Report and Certification. Indicate the physical location of the written agreements and records.

The County DPW maintains records which indicate the amount of salt provided to the municipalities noted above.

APPENDIX A

PERMIT



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code - 401-02B

CATHERINE R. McCABE
Commissioner

SHEILA Y. OLIVER
Lt. Governor

Water Pollution Management Element
Bureau of Nonpoint Pollution Control
P.O. Box 420 – 401 E. State St.
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Fax: (609) 777-0432
http://www.state.nj.us/dep/dwq/bnpc_home.htm

November 29, 2019

Re: Stormwater Discharge Master General Permit Renewal
R12 -Highway Agency Stormwater General Permit
NJPDES: NJ0141887 PI ID #: 50577
NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST
Trenton City, Mercer

Dear Interested Party:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. The Highway Agency Municipal Stormwater General Permit Renewal authorizes discharges from small Municipal Separate Storm Sewer Systems (MS4s) that are owned or operated by a county, State, interstate, or Federal agency at a highway or other thoroughfare (including a maintenance or service facility or rest area for such a thoroughfare). The permit was issued in response to USEPA's Phase II rules.

A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16.

The final Highway Agency MS4 NJPDES permit and supporting documents are also posted at <https://www.nj.gov/dep/dwq/highway.htm>

Questions or comments regarding the final action should be addressed to Stephen Boyer at (609) 633-7021.

Sincerely,

Gabriel Mahon, Chief
Bureau of Nonpoint Pollution Control

Enclosures
c: Permit Distribution List

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New Jersey Department of Environmental Protection
Division of Water Quality
Bureau of Nonpoint Pollution Control

RESPONSE TO COMMENTS

Comments were received on the draft NJPDES Stormwater Discharge MS4 Master General Permit Renewal No. NJ0141887 for Highway Agencies issued on 08/21/2019. The Public Notice was published in the following newspapers:

Newspaper	Date Published
The Press of Atlantic City	08/24/2019
The Star-Ledger	08/26/2019
The Times, Trenton	08/26/2019

The Public Notice was also published in the 08/21/2019 issue of the *DEP Bulletin*. In accordance with N.J.A.C. 7:14A-15.10(c)1i the public comment period shall close no sooner than thirty (30) days after the last newspaper publication. Therefore, the public comment period ended on 09/25/2019. A summary of the timely and significant comments received, the New Jersey Department of Environmental Protection's (Department) responses to these comments, and an explanation of any changes from the draft action have been included below.

The following persons commented during the public comment period:

A. William P. Minervini, in an email dated 09/15/2019.

1. COMMENT: Part II.C.3.a.i - Expand the clause “except as otherwise specifically provided in this permit” to cross-reference the provision(s) of this permit that “specifically” authorizes “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2. I have not found any provision of this permit that unambiguously meets this criterion.

If this permit will authorize any “stormwater discharge associated with industrial activity,” this authorization must be stated clearly and expressly, and the permit conditions for such discharge must conform to NJPDES rule provisions that pertain to such discharge rather than to small MS4 discharges. See, for example, N.J.A.C. 7:14A-24.9 provisions pertaining to “stormwater discharge associated with industrial activity.”

The response to this comment should identify at least one specific example of “stormwater discharge associated with industrial activity” authorized by this permit.

RESPONSE A.1: The Department disagrees that Part II.C.3.a.i needs to be expanded to cross-reference the provision(s) of the permit that “specifically” authorizes “stormwater discharge associated with industrial activity”. The Department maintains that the Fact Sheet along with Attachment E appropriately identifies relevant information regarding Maintenance Yards and Other Ancillary Operations and “stormwater discharge associated with industrial activity.” The following is an excerpt from the Fact Sheet:

“Consistent with 40 CFR 122.34(b)(6) and N.J.A.C. 7:14A-25.6, each iteration of New Jersey’s Highway Agency MS4 NJPDES permit since 2004 has included requirements related to maintenance yard operations. N.J.A.C. 7:14A- 25.6(b)7 states:

“Maintenance yards and highway service areas: The permittee shall develop and implement an operation and maintenance program that prevents or reduces pollutant runoff from maintenance yards and highway service areas owned or operated by the permittee.”

At Part IV.B.5.c of this permit, these requirements are presented and renamed “Maintenance Yards and Other Ancillary Operations.” This permit condition presents a simple (but expanded) list of activities to better represent common activities at maintenance yards and unifies all applicable BMPs and control measures in Attachment E (Best Management Practices for Maintenance Yards and Other Ancillary Operations). Based on information garnered from site inspections as well as input from field inspectors, the 2009 Highway Agency MS4 NJPDES permit does not accurately represent all the activities at maintenance yard locations. This permit proposes to remedy this gap by expanding this section as well as by including BMPs or control measures that must be implemented to minimize or eliminate pollutant exposure to stormwater for each activity in Attachment E, which is written so that it can be distributed to and utilized by employees that work at or use the maintenance yard.

The Department has determined that expanding coverage under this permit for additional activities commonly occurring at maintenance yards is appropriate since such activities can be a significant contributor of pollutants to surface water if not managed properly (see N.J.A.C. 7:14A-24.2(a)). These activities could be otherwise regulated under individual permits, but the Department has determined that this general permit is the most efficient and appropriate means by which the Department can regulate a large number of similar dischargers (see also N.J.A.C. 7:14A-6.13).

The Department maintains that it is appropriate and reasonable to include conditions for Maintenance Yards and Other Ancillary Operations yet continue the exclusion for “stormwater discharge associated with industrial activity” as included in Part II.C.3.a.i.

Part II.C.2.a.ii does specifically authorize all new and existing stormwater discharges to surface water and groundwater from maintenance yards and other ancillary operations (see Part IV.B.5.c) that are owned or operated by a “Highway Agency.” As described in Part IV.B.5.c, ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites. The Department maintains that issuing an individual NJPDES permit to permittees for discharges from maintenance yards and other ancillary operations would not necessarily result in any substantial water quality benefit as compared to a general NJPDES permit. The recordkeeping and reporting requirements and fees involved with a separate permit would impose an extra burden on permittees, while providing water quality benefits equivalent to the level of protection under the Highway Agency MS4 NJPDES permit. Therefore, the Department has determined that due to the limited scope of these operations, utilizing the Highway Agency MS4 NJPDES permit is the most efficient and appropriate means by which the Department can regulate maintenance yards and other ancillary operations and that this is in the best interest of both the Department and permittees. Also, a permittee is not exempt from the requirement to apply for another separate stormwater permit for any activity at maintenance yards or other ancillary operations if required to do so, for due cause, by the Department.

No changes have been made to the final permit as a result of this comment.

2. COMMENT: Part II.C.3.a.v - The phrase “such a discharge” is unclear. Does it refer just to the discharge of stormwater from certain Yard Trimmings and Wood Waste Management Sites identified in Part II.C.3.a.iv, or does it refer to **all** “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2?

RESPONSE A.2: The phrase “such a discharge” must be read in the context of the section of the permit where it appears. Specifically, Part II.C.3 states the following, with the referenced text highlighted,

“3. Discharges Not Authorized Under the Highway Agency MS4 NJPDES Permit

- a. Stormwater Discharges Associated with Industrial Activity.
 - i. The Highway Agency MS4 NJPDES Permit does not authorize “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit.
 - ii. Types of facilities that a permittee might operate and that are considered to be engaging in “industrial activity” include but are not limited to certain: 1) landfills; 2) transportation facilities (including certain local passenger transit and air transportation facilities); 3) facilities handling domestic sewage or sewage sludge; and 4) steam electric power generating facilities.
 - iii. Yard Trimmings and Wood Waste Management Sites that are not owned and operated by the permittee.
 - iv. The Highway Agency MS4 NJPDES Permit does not authorize the discharge of stormwater that comes in contact with source material from Yard Trimmings and Wood Waste Management Sites that are owned or operated by the Highway Agency to storm sewer inlets or to surface waters of the State.
 - v. Any permittee that operates an industrial facility with such a discharge must submit a separate Request for Authorization (RFA) or individual permit application for that discharge. An RFA submitted for the Highway Agency MS4 NJPDES Permit does not qualify as an RFA for *such a discharge*.”

The phrase ‘such a discharge’ refers to the topic of this section of the permit at Part II.C.3., i.e. ‘Discharges Not Authorized Under the Highway Agency MS4 NJPDES Permit.’ Reading paragraph v. in the context of the preceding language in this section clearly refers to the ‘Discharges Not Authorized Under the Highway Agency MS4 NJPDES Permit.’ This means that any permittee that operates an industrial facility with “such a discharge”, or in other words, a “stormwater discharge associated with industrial activity” that is not authorized under Part II.C.2.a.ii must submit a separate Request for Authorization (RFA) or individual permit application for that discharge.

No changes have been made to the final permit as a result of this comment.

3. COMMENT: Notes and Definitions Part IV.B.1.i - This new definition of “Major development” will presumably be changed if the N.J.A.C. 7:8-1.2 definition of “Major development” is amended as

a consequence of proposed changes to N.J.A.C. 7:8 published in the December 3, 2018 New Jersey Register (50 N.J.R. 2375(a)). Therefore, commenting on this new definition is difficult.

In any event, however, add the following sentence at this new definition's end: "For purposes of this general permit, only projects owned or operated by the permittee may be considered 'major development,' 'development,' or 'redevelopment'." This addition would help to clarify that Part IV.B.4 **in its entirety** ("Minimum Standards for Post Construction Stormwater Management in New Development and Redevelopment") applies **only** to projects owned or operated by the permittee. This restriction haphazardly appears (see comment 5 below) in some Part IV.B.4 provisions (e.g., Part IV.B.4.a) but not in others (e.g., Part IV.B.4.d, which could be read as being completely independent of Part IV.B.4.a).

RESPONSE A.3: The Department disagrees that an additional sentence needs to be added to the definition of "Major development" to clarify that this definition applies only projects owned and operated by the permittee since the first condition of the Post Construction SBR at Part IV.B.4.a states "The permittee shall develop, update, implement and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment projects owned or operated by the permittee, and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8 et seq." In addition, the definition of "Major development" in this permit has not been changed since it is consistent with the current definition at N.J.A.C. 7:8-1.2, and this permit has been finalized prior to the final decision regarding the proposed changes to N.J.A.C. 7:8. Further, this permit does not contain any conditions that provide for, or require, the permittee to ensure compliance for projects that are not owned or operated by the permittee. Therefore, the commenter's recommended additional sentence is not needed.

No changes have been made to the final permit as a result of this comment.

4. COMMENT: Part IV.A.2.iii - In the reference to "an individual Form 10 (Maintenance Yards and Other Ancillary Operations)," make sure that "Form 10" is not incorrectly copied from the Tier A Permit "Form 10 – Municipal Maintenance Yards and Other Ancillary Operations." In current Highway Agency Permit guidance, the analogous form has a different number, and SPPP "Form 10" pertains instead to "Improper Disposal of Waste."

RESPONSE A.4:

The Department agrees and is currently updating the SPPP Template for this permit and will ensure that the form regarding Maintenance Yards and Other Ancillary Operations is labeled Form 10 and does not contain the word "Municipal" in its title.

No changes have been made to the final permit as a result of this comment.

5. COMMENT: Part IV.B.4 - In Part IV.B.4.a, insert "(as set forth in b. through k. below)" immediately after "The permittee", or otherwise rewrite Part IV.B.4 (or the Part IV.B.1.i new definition of "Major development"; see comment 3 above) to make it clear that this provision, in its entirety, is restricted to new development and redevelopment projects owned or operated by the permittee. In the Draft Permit, this important restriction is stated in Parts IV.B.4.a.1, b.i, 4.g, and 4.i,

but is not stated or implied in Parts IV.B.4.b.ii, 4.c, 4.d, 4.f, and 4.h (where this restriction would also be relevant).

RESPONSE A.5: See response A.3 above.

No changes have been made to the final permit as a result of this comment.

6. COMMENT: Part IV.B.4 - Part IV.B.4.e conflicts with N.J.A.C. 7:8 and N.J.A.C. 7:14A-25.6(b)3, which have no provision that authorizes a Highway Agency (as distinct from a “municipality” as defined in N.J.A.C. 7:8-1.2) to grant a variance or exemption from the design and performance standards in N.J.A.C. 7:8-5 (except in the limited circumstances set forth in N.J.A.C. 7:8-5.2(e)). N.J.A.C. 7:8-4.6 authorizes only such a “municipality” to grant such a variance or exemption (and this would be the case even if the proposed amendments to N.J.A.C. 7:8-4.6 published in the December 3, 2018 New Jersey Register are adopted).

Nor do N.J.A.C. 7:8-5.1(b), N.J.A.C. 7:8-2.5, N.J.A.C. 7:14A-25.6(b)3, or N.J.A.C. 7:1B authorize Part IV.B.4.e. N.J.A.C. 7:8-5.1(b) is limited to alternative standards applicable under a regional stormwater management plan or other water quality management (WQM) plan adopted in accordance with N.J.A.C. 7:15. Only NJDEP may grant exemptions under N.J.A.C. 7:8-2.5 (which also includes exemption criteria not found in Part IV.B.4.e or N.J.A.C. 7:8-4.6). The NJPDES MS4 permit rules at N.J.A.C. 7:14A-25.6(b)3ii require compliance with the standards established under N.J.A.C. 7:8 unless those standards do not apply because of a variance or exemption under N.J.A.C. 7:8 (which as discussed above does not authorize Part IV.B.4.e), or because alternative standards are applicable under an adopted WQM plan. Finally, only NJDEP may approve waivers requested under N.J.A.C. 7:1B.

In short, Part IV.B.4.e cannot be included in this permit unless N.J.A.C. 7:8 or N.J.A.C. 7:14A-25.6(b)3 is changed to authorize Part IV.B.4.e. The Draft Permit’s Fact Sheet did not assert that any specific provision in N.J.A.C. 7:8 or N.J.A.C. 7:14A-25.6(b)3 authorizes Part IV.B.4.e.

RESPONSE A.6: Part IV.B.4.e doesn’t state that a variance can be granted by a Highway Agency in accordance with N.J.A.C. 7:8-4.6, it states that the permittee shall only grant a variance or exemption from the design and performance standards if the permittee has a mitigation plan which satisfies the same criteria that a mitigation plan prepared in accordance with N.J.A.C. 7:8-4.6 satisfies. The required mitigation plan will ensure that the standards are met within the same drainage area, albeit at an alternative location or by alternative means. Since this section of the permit additionally requires a written report be submitted to the Department within 30 days, the Department will have an opportunity to object to any mitigation projects that do not adequately meet the design and performance standards prior to their construction. However, the Department agrees that the use of the terms “variance or exemption,” which were used since they appear at N.J.A.C. 7:8-4.6, incorrectly imply that the design and performance standards would not be met by the project. As such, Part IV B.4.e.i-ii is revised as follows:

“e. The ~~permittee shall only grant a variance or exemption from the design and performance standards for stormwater management measures~~ can be met at an alternative location or by alternative means provided ~~if the permittee has a mitigation plan which meets the following requirements:~~”

- “i. The mitigation plan shall identify measures that are necessary to offset the deficit created by the alternate location or design ~~granting the variance or exemption~~. The mitigation plan must satisfy the same criteria that a mitigation plan prepared in accordance with the Stormwater Management Rule N.J.A.C. 7:8-4.6 must satisfy. See Chapter 3 of the NJ Stormwater BMP Manual at <https://www.njstormwater.org> for guidance; and”
- “ii. The permittee submits, within 30 days after approving an alternate location or design ~~the grant of a variance or exemption~~, a written report to the Department describing the alternate location or design ~~variance or exemption~~ and the required mitigation. Submit the written report to the Department at:...”

These changes affect Part IV B.4.e.i-ii of the final permit.

7. COMMENT: Part IV.B.6.b.v - Delete this provision. One problem with it is that there will be much room for argument about how much the Highway Agency must reduce stormwater rate or volume, and about how to determine whether and how much such reduction is “feasible.”

In my comments on a similar provision in the February 2017 draft renewal of the Tier A MS4 NJPDES Permit, I indicated that the more fundamental problem is that if, for existing and projected stormwater flows **absent** such reduction, the MS4 permittee (such as a municipality or Highway Agency) modifies the outfall pipe area (the pipe and its environs) to remediate identified localized stream scouring in accordance with MS4 permit requirements (mainly Conduit Outlet Protection standards established under the Soil Erosion and Sediment Control Act), then requiring the MS4 permittee to reduce stormwater rate or volume will require the MS4 permittee to incur costs and achieve little or no additional control of localized stream scouring. In its Response 169 to my comment, NJDEP stated in part:

“Because stream scouring is caused by excessive stormwater flow rate, addressing the sources of stormwater is often a more effective long-term solution than only remediating the scouring. Remediation measures often require long-term maintenance similar to other stormwater facilities. Addressing the sources of stormwater can often reduce the required maintenance as well as reduce future stream scouring and is an improvement over the 2009 Tier A MS4 NJPDES permit requirements... Therefore, the Department maintains that the terms and conditions in the Tier A MS4 NJPDES permit constitute reasonable further progress toward the standard of reducing the discharge of pollutants to the maximum extent practicable.

This response is inadequate for the following reasons:

- Local stream scouring “is caused by excessive stormwater flow rate” only in the sense that the flow rate is excessive relative to the capacity of the outfall pipe area to prevent localized stream scouring. If remediation measures increase that capacity to accommodate the stormwater flow rate, then the stormwater flow rate is no longer “excessive.”
- Corrective measures taken by the MS4 permittee to reduce stormwater rate or volume themselves “often require long-term maintenance similar to other stormwater facilities.” Thus, the total required maintenance may in many instances remain the same or even increase.

- To lower construction costs, the MS4 permittee may lawfully scale back its remediation measures in the outfall pipe area in light of the expected reduced stormwater rate or volume. This scaling back may eliminate much or all of any reduction of the required maintenance of those measures, and of any reduction of local stream scouring.
- There is no environmental justification for requiring reduction of stormwater rate or volume for outfall pipes where local stream scouring remediation is initiated under this renewed permit, but **not** requiring such reduction for outfall pipes where such remediation was initiated under the 2004 or 2009 MS4 permits (or before 2004, for that matter). More broadly, however, because such reduction may have important benefits separate from control of such scouring, the limited resources available for such reduction should be allocated to projects deemed likely to have the best relation of benefits to costs, including benefits separate from such control, even if such scouring has been absent.
- The engineering methods used in the outfall pipe area for control of local stream scouring are squarely within the ambit of the Conduit Outlet Protection standards established under the Soil Erosion and Sediment Control Act. In locations where these standards are met, requiring reduction of stormwater rate or volume “when feasible” implies that these standards are generally inadequate, which is an odd position for NJDEP to take because these standards require NJDEP approval or participation (see N.J.S.A. 4:24-42 and -43). If NJDEP believes these standards are generally inadequate, NJDEP should discuss them with the State Soil Conservation Committee and NJDOT and then, if appropriate, seek to strengthen these standards using NJDEP’s authority under that Act. As compared against unpredictable case-by-case determinations of reduction (if any) of stormwater rate or volume, such strengthening (if appropriate) would be a more reliable and predictable way of improving control of local stream scouring.

Adding to the current Conduit Outlet Protection standards a requirement for reduction of stormwater rate or volume “when feasible” contravenes a decades long NJDEP policy of using the standards established under the Soil Erosion and Sediment Control Act as the primary standards for erosion and sediment control in NJPDES stormwater permits and programs. See, for example, Part I.E.1 of the current NJDEP Construction Activity Stormwater General Permit (NJPDES Permit No. NJ0088323), and current N.J.A.C. 7:8-5.4(a)1 and 7:14A-24.10(a)1. Although the NJDEP may appropriately impose stricter standards for erosion and sediment control in unusual circumstances (for example, highly contaminated soil or exceptionally sensitive receiving surface waters), requiring (for control of local stream scouring) reduction of stormwater rate or volume “when feasible” does not correspond to such circumstances, and may conflict with the Soil Erosion and Sediment Control Act.

RESPONSE A.7: The Department disagrees that the condition at Part IV.B.6.b.v of the permit should be deleted because there will be room for argument about how much the Highway Agency must reduce stormwater rate or volume, and about how to determine whether and how much such reduction is “feasible.” The Department recognizes that localized stream scouring is not only inadequate erosion control BMPs at the outfall but the volume of stormwater being directed to the outfall, which ultimately results in localized stream scouring. When stream scouring is detected and identified sources are located on permittee owned property, the Department is requiring a permittee to evaluate their MS4 system and reduce the flow of stormwater entering its MS4 where feasible. As specified in this permit condition, corrective action will not be feasible in all situations and factors which make the reduction of rate or volume of stormwater feasible will not be the same in all

situations. It is possible that due to constraining factors, which may be unique to individual permittees, it will not be possible to reduce the rate or volume of stormwater discharged from sources located on permittee owned property. The Department does not have the ability to identify all possible scenarios in which corrective action will be feasible and as such, has left the **initial** determination of feasibility to the permittee. The Department will be able to review the documentation and reasoning for the feasibility determination if necessary. This requirement shows reasonable progress towards reducing localized stream scouring to the maximum extent practicable.

No changes have been made to the final permit as a result of this comment.

8. COMMENT: Part IV.C.1.b - This provision requires the Stormwater Facilities Map to be, among other things, “populated and maintained in an electronic format provided by the Department.” To give interested parties adequate notice of the substance of this provision, the Draft Permit or its fact sheet should have identified the specific kind(s) of “electronic format” being considered by NJDEP, which should now include this information in the Final Permit or in NJDEP’s response to this comment. The resources and time needed to prepare this map may vary greatly depending on the required format.

Of particular concern in this regard is the requirement to include “an annotated map of roadways and thoroughfares owned or operated by the permittee.” Would maps available from NJDOT's Geographic Information System suffice? (See <https://www.nj.gov/transportation/gis/map.shtm/#statemaps>.) The applicability (or nonapplicability) of the NJDEP Mapping and Digital Data Standards (N.J.A.C. 7:1D, Appendix A) must be specifically addressed.

RESPONSE A.8: EPA has released 40 CFR part 127 Appendix A, or the Electronic Reporting Rule, which requires the electronic reporting and sharing of NPDES program data. However, at the time of finalization of this permit, EPA has not specified what electronic format will be required for maps related to MS4 permitting. The Department anticipates the requirement will be a Geographic Information System (GIS) format, and that the permittees may use the mapping application developed by the Department to assist with this requirement, which is also referenced in the section of the permit at Part C.1.c. When NJDEP is notified of the required format, authorized permittees will be notified if any additional requirements will apply, and submission dates may be extended where applicable.

Maps available from NJDOT's Geographic Information System would satisfy the requirement to include an annotated map of roadways and thoroughfares provided the map specifically identified the roadways and thoroughfares owned or operated by the permittee.

No changes have been made in response to this comment.

9. COMMENT: Attachment C – In the second line of the “Application of Design Standard” box, delete “in an adopted regulatory mechanism”. Referencing this mechanism is inappropriate because Attachment C should apply to permittee owned or operated storm drain inlets **only**. The permittee does not need a “regulatory mechanism” to design its own storm drain inlets.

Make it clear that **all** of Attachment C (not just the third bullet in the “Application of Design Standard” box) applies to permittee owned or operated storm drain inlets **only**.

Delete the “; and” at the end of the third bullet in the “Application of Design Standard” box.

RESPONSE A.9: While the Department agrees that the permittee does not need a “regulatory mechanism” to design its own storm drain inlets, the permittee could adopt a more stringent regulatory mechanism (i.e., internal procedure) regarding the application of the design standard for storm drain inlets. No changes have been made to the final permit as a result of this comment.

The Department agrees there is a typographical error at the end of the third bullet in the “Application of Design Standard” box of Attachment C. As such the third bullet is revised to replace the “; and” with a period. This change affects Attachment C of the final permit.

- B.** Virginia Wong, Chief, NPDES Section, Water Division - USEPA Region II, in an email dated 09/18/2019.

- 1. COMMENT:** Part II.B.2.a - Is this section of the permit used as a shield? (GS)

RESPONSE B.1: The commenter’s question regarding the Department using a permit condition as a shield is vague and unclear. Part II.B.2.a indicates that stormwater discharges authorized by the permit are exempt from N.J.A.C. 7:14A-6.2(a)2. This referenced paragraph of the NJPDES regulations states: “*The discharge of any pollutant not specifically regulated in the NJPDES permit or listed and quantified in the NJPDES application or request for authorization shall constitute a violation of the permit, unless the permittee can prove by clear and convincing evidence that the discharge of the unauthorized pollutant did not result from any of the permittee's activities which contribute to the generation of its wastewater.*” The Department contends that this paragraph is applicable to wastewater not stormwater, and the intent of the permit condition is to clarify its applicability, not to use it as a shield.

No changes have been made to the final permit as a result of this comment.

- 2. COMMENT:** Part II B.3.a - For clarity EPA believes adding the weblink in this section would be beneficial to permittees. (RU)

RESPONSE B.2: Since the submission date in Part II B.3.a is required by EPA’s National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, the Department agrees that an EPA weblink would be beneficial to permittees. As such, Part II B.3.a is revised as follows:

“Unless already required by this permit to be submitted electronically by an earlier date, effective December 21, 2020 (for information on the NPDES eRule, see www.epa.gov/compliance/npdes-reporting), the below identified documents...”

This change affects Part II B.3.a of the final permit.

- 3. COMMENT:** Part II.C.2.b - NJDEP’s categories are not consistent with EPA 40 CFR 122.34(b)(3)(iii). Specifically, Part II.C.2.b.ix – xi. For example, this section authorizes flows from “firefighting activities including the washing of fire fighting vehicles.” Washing of fire fighting

vehicles is not considered “firefighting activities.” The NPDES regulations also only authorize water from residential car washings. See § 122.34(b)(3)(ii). Please remove the language that permits the “washing of fire fighting vehicles”. Please explain the addition of C.2.b.ix-xi not found in the above referenced EPA regulation. (KM)(RU)

RESPONSE B.3: The commenter indicated that NJDEP’s categories at Part II.C.2.b of the permit are not consistent with EPA 40 CFR 122.34(b)(3)(iii). However, this federal citation references guidance for detecting and addressing illicit discharges and does not include non-stormwater discharge categories. It appears the commenter meant to reference EPA 40 CFR 122.34(b)(3)(ii).

The Department does not consider the washing of firefighting vehicles to be a significant source of pollutants to MS4 discharges and has previously determined that washing of firefighting vehicles is a necessary measure undertaken to ensure their proper operation, thus fitting into the category of “firefighting activities.” However, since this type of non-stormwater discharge is not applicable to Highway Agencies the Department agrees to remove the language that authorizes the “washing of fire fighting vehicles” from the final permit. As such, Part II.C.2.b.viii is revised as follows:

“Flows from firefighting activities ~~including the washing of fire fighting vehicles;~~”

This change affects Part II.C.2.b.viii of the final permit.

The categories of non-stormwater discharges at Part II.C.2.b.ix – xi are not additions and were included in the previous permit at Part I.A.2.d.ix. The Department considers clean water rinsing of beach maintenance equipment and equipment and vehicles used in the application of salt and de-icing materials a necessary measure undertaken to ensure their proper operation and not to be significant source of pollutants to MS4 discharges when done in accordance with Part II.C.2.b.ix–xi of the permit.

No changes have been made to Part II.C.2.b.ix–xi of the final permit as a result of this comment.

4. COMMENT: Part II D.1 - Are the permittees notified that of the reissued permit? How else would the permittee be aware that changes to the RFA are warranted? This section should state that the permittee will be notified of this permit’s reissuance. (SV)(GS)

RESPONSE B.4: As described in Section 5.C of the Fact Sheet, once a final determination is made on the permit the Department will then issue individual authorizations to each eligible permittee consistent with the terms and conditions of the permit. Part II.D.2.a of the permit requires a permittee to provide a corrected RFA within 90 days of the effective date of a renewed authorization if any information in its most recently submitted RFA is no longer true, accurate, and/or complete. Existing permittees are notified of the status of the permit renewal process throughout the entire process from the predraft through the final permit issuance and are invited to permit outreach sessions conducted by the Department.

No changes have been made to the final permit as a result of this comment.

5. COMMENT: Part II D.1 - It is understood that N.J.A.C. 7:14A-6.13(d)9 and 24.4(a)3 allow for automatic administrative renewal based on the original RFA. Is this still valid in light of the Remand

Rule and the time that has elapsed since the submittal of the last RFA on file (~15 years)? Is the information in the RFA still accurate? N.J.A.C. 7:14A-6.13(d)2 states that RFAs “shall require the submission of information necessary for adequate program implementation, including, at a minimum, the legal name and address of the owner and operating entity, the facility name and address, the type of facility or discharges, the receiving surface or ground water(s) or DTW, and the certification required under (d)3 below.” In EPA’s review of RFAs obtained through audits of numerous MS4s over the years, EPA has not seen a complete RFA that includes the information in accordance with N.J.A.C. 7:14A-6.13(d).

In addition, N.J.A.C. 7:14A-6.13(d)9 does not state that, as part of the automatic renewal, the NJDEP will automatically renew existing authorizations using the information provided in the permittee’s most recently submitted RFA and “the information collected by the Department in each permittee’s Annual Report and Certification received electronically through the Department’s Regulatory Services Portal.” (*see last paragraph on page 5 of the Fact Sheet*). (KM)

RESPONSE B.5: N.J.A.C. 7:14A-6.13(d)9 does not indicate that automatic renewal of an authorization is based on the original RFA. This paragraph of the NJPDES regulations indicates that the most recently submitted RFA shall be considered a timely and complete request for authorization under the reissued permit. N.J.A.C. 7:14A-6.13(d)9 also does not state how the information required in the RFA is to be submitted to the Department. RFA information required by N.J.A.C. 7:14A-6.13(d)2 is updated through the MSRP Annual Report or by modification requests such as a transfer of ownership.

No changes have been made to the final permit as a result of this comment.

6. COMMENT: Part II D.3.c - What possible scenarios does NJDEP envision a stormwater discharge without the submittal of the proper RFA? (SV)

RESPONSE B.6: While the Department does not envision issuing an authorization without an RFA, a new Highway Agency that is eligible for the permit and fails to submit an RFA could be issued an authorization so that the Department could begin enforcing the conditions of the permit on this entity. This condition is found in rule at N.J.A.C. 7:14A-6.13(d)8, which states,

“The Department may notify a person that the discharge is authorized by a general permit, even if the person has not submitted a request for authorization. A person so notified may nonetheless request an individual permit under (i) below. and is applicable to all general permit authorizations.”

No changes have been made to the final permit as a result of this comment.

7. COMMENT: Part III - EPA suggests that NJDEP include a detailed list of records to be kept, a designation of where the record should be kept and that NJDEP should also establish a period of time for record retention. The period of retention should be no less than the three years as required by 40 CFR § 122.34(g)(2). (KM)

RESPONSE B.7: Attachment A of the permit details which records need to be kept, and that the permittee is required to identify the location of said records in its SPPP. The Department agrees that

Part III should reference the recordkeeping requirements at Part IV.F of the permit which requires records to be kept by this permit for a period of at least 5 years and be made available to the Department upon request. As such, Part III is revised as follows:

“The permittee shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records is found at Part IV.F of this permit, and the requirement to submit an Annual Report and Certification is found at Part IV.G of this permit.

This change affects Part III of the final permit.

8. COMMENT: Part IV A.1.a - NJDEP uses the acronym RFA prior to the spelling the acronym out in Part II C.3.a.v. EPA suggests including RFA in this section. Also suggested is the inclusion of EPA and EDPA. (SV)

RESPONSE B.8: Although the acronym RFA is spelled out in Section 12 of the Fact Sheet, which precedes the permit document set, the first time the acronym RFA appears in the permit document set is at Part II.B.2.a. As such, Part II.B.2.a is revised to spell out the acronym RFA. This change affects Part II.B.2.a of the final permit.

In addition, Part IV Notes and Definitions A.1.a is revised to include RFA in the list of acronyms. This change affects Part IV Notes and Definitions A.1.a of the final permit.

The suggestion to include the acronym EDPA is not needed since it is already included in the permit at Part IV Notes and Definitions A.1.a.iii., and this is the first time it appears in the permit. No changes have been made to the final permit as a result of this suggestion.

Although the acronym EPA is spelled out in Section 12 of the Fact Sheet, Part IV Notes and Definitions A.1.a. is revised to include EPA in the list of acronyms. This change affects Part IV Notes and Definitions A.1.a of the final permit.

9. COMMENT: Part IV B.1 - EPA recommends including definitions for “Stormwater Pollution Prevention Plan” (SPPP), “pollutant”, “outfall”, “measurable goal”, “surface water body” and “waters of the State”. The NJDEP should also clarify that a connection from one MS4 to another is considered an outfall for the upstream community. (KM)

RESPONSE B.9: Regarding “Stormwater Pollution Prevention Plan” (SPPP), there are extensive descriptions for this document within Part IV.A.2 under “Stormwater Pollution Prevention Plan (SPPP) Requirements” This serves the same purpose as a definition. No changes have been made to the final permit as a result of this recommendation.

Regarding “measurable goal”, the Department chose not to define “measurable goal” in this permit (as well as the recently issued Tier A and Public Complex MS4 NJPDES permits). The Department notes that this term is not defined in state or federal regulations. However, Page 12 of the Fact Sheet states that “the Department considers a “measurable goal” to be a specific action taken to implement a BMP, rather than a specific condition of stormwater or receiving water quality that is supposed to

result from implementing a BMP.” No changes have been made to the final permit as a result of this recommendation.

There is a cross reference within Notes and Definitions Part IV B.1.a of the permit to definitions within the NJPDES Regulations at N.J.A.C. 7:14A where “pollutant,” “outfall,” “surface water,” and “waters of the State” are defined. Because these terms are already defined within regulations, a cross reference is appropriate to ensure that the permits are current in the event of any regulatory changes. No changes have been made to the final permit as a result of this recommendation.

The Department disagrees with the commenter’s recommendation that the NJDEP should clarify that a connection from one MS4 to another is considered an outfall for the upstream community since this is inconsistent with the definition of “outfall” at N.J.A.C. 7:14A-1.2. This definition means any point source which discharges directly to waters of the United States not another MS4. No changes have been made to the final permit as a result of this recommendation.

10. COMMENT: Part IV B.1 – Green Infrastructure: In 2018, Congress amended Section 502 of the Federal Water Pollution Control Act (33 U.S.C. 1362) to define green infrastructure as "the range of measures that use plan or soil systems, permeable pavement or other permeable surfaces or substrates, stormwater harvest and reuse, or landscaping to store, infiltrate, or evapotranspire stormwater and reduce flows to sewer systems or to surface waters. Please use the above language in the state definition. (RU)

RESPONSE B.10: While the definition of “Green infrastructure” in the permit does not match “word for word” the definition in Section 502 of the Federal Water Pollution Control Act (33 U.S.C. 1362), the Department contends it has essentially the same meaning. In addition, modifying the definition in this permit would make the definition different from the recently issued Tier A, Tier B, and Public Complex MS4 permits.

No changes have been made to the final permit as a result of this comment.

11. COMMENT: Part IV Highway GP A.1.a - It’s problematic to tie the implementation of the stormwater program to the MS4 permit standard (i.e., MEP, etc.), as NJDEP does here. In the preamble to the Remand Rule EPA specifically indicates that use of language as in this NJDEP section does not constitute a clear, specific, and measurable permit condition. See page 89335 of the Remand Rule Federal Register Notice (1st column, 2nd bullet): <https://www.govinfo.gov/content/pkg/FR-2016-12-09/pdf/2016-28426.pdf>. EPA recommends instead that the program be required to comply with the terms and conditions of the permit. (GS)

RESPONSE B.11: The Department disagrees that the preamble to the Remand Rule specifically indicates that use of language to tie the implementation of the stormwater program to the MS4 permit standard (i.e., MEP, etc.) does not constitute a clear, specific, and measurable permit condition. The first page (89320), first column of the Remand Rule regarding option 1 (New Jersey’s selected option) states “The first option is to establish all necessary permit terms and conditions **to require the MS4 operator to reduce the discharge of pollutants from its MS4 to the MEP**, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act (“MS4 permit standard”) upfront in one comprehensive permit. This reiterates the federal permit requirements for regulated small MS4 permits (which the Remand Rule did not change) at EPA 40

CFR 122.34(a), which states “For any permit issued to a regulated small MS4, the NPDES permitting authority must include permit terms and conditions to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. The intent of Part IV A.1.a is to describe the overall objective of the permit, which is to create an MS4 stormwater program that reduces the discharge of pollutants from the MS4 to the maximum extent practicable through the implementation of best management practices and other measures required by the permit.

In addition, Part IV.A.1.c of the permit requires the permittee to develop, update, implement, and maintain a written SPPP, and Part IV.A.2.a.iv requires the SPPP to describe the processes the permittee will establish and the actions they will undertake to achieve compliance with all components of the permit.

No changes have been made to the final permit as a result of this comment.

12. COMMENT: Part IV Highway GP A.2.a.iii - NJDEP should include the noting of water bodies that the maintenance yard might discharge to in the geographic region. (SV)

RESPONSE B.12: Part IV.A.2.a.iii requires a permittee to identify, in its SPPP, each individual maintenance yard to be covered, including the geographic region and site specific details of each yard. This would include any segment of surface water wholly or partially within or bordering the maintenance yard, and any approved or adopted TMDL’s. This information will be specifically required on Form 10.

No changes have been made to the final permit as a result of this comment.

13. COMMENT: Part IV Highway GP A.2.a.vi - References to "measurable goals" are problematic in this and other parts of the permit. The Remand Rule removed references to measurable goals in the regulations, except in connection with proposed measurable goals for Two-Step type general permits, which this isn't. Measurable goals give the impression that the permittee is developing its own set of requirements that it can assess compliance by. Recommend that the state remove references to "measurable goals" in the permit, and in Attachment A. Instead the permit should refer to the specific required permit criteria or standard. (GS)

RESPONSE B.13: The Department disagrees with the recommendation to replace “measurable goals” with permit criteria or standard in the permit. While “measurable goals” is the same terminology used in Option 2 of the Remand Rule, it is clear in this permit that it means a clear, specific, and measurable permit criterion, not a proposed BMP to be submitted by the permittee and reviewed by the Department.

No changes have been made to the final permit as a result of this comment.

14. COMMENT: Part IV Highway GP B.1.a.ii - DOTs do not enact "ordinances." NJDEP could refence other regulatory mechanisms and procedures. (RU)

RESPONSE B.14: Counties do in fact enact “ordinances” and are 21 of the 33 existing permittees under this General permit. Part IV.B.1.a.ii states “...for the enactment of ordinances or other regulatory mechanisms”, so the requested reference to “other regulatory mechanisms” is already contained in the permit for permittees that do not enact ordinances.

No changes have been made to the final permit as a result of this comment.

15. COMMENT: Part IV Highway GP B.3.a - EPA believes DOT permittees need to comply with 122.34(b)(4)(D), (E), and (F). Are these requirements in the NJDEP permit? (GS)

RESPONSE B.15: EPA 40 CFR 122.34(b)(4) is one of the six federal Minimum Control Measures and requires construction site storm water runoff control. As indicated in Part IV.B.3.a, construction site stormwater runoff activities are authorized under a separate NJPDES permit, generally the Construction Activity Stormwater General Permit No. NJ0088323 (commonly referred to as the 5G3 permit) pursuant to N.J.A.C. 7:14A-25.6(b)2 (or an individual permit pursuant to N.J.A.C. 7:14A-24.7(a)2). DOT permittees are not exempt from the requirement to apply for and obtain the 5G3 permit. The 5G3 permit controls stormwater discharge to surface water from certain construction activities, including clearing, grading, and excavation. Generally, this includes construction activities that disturb at least one acre, or disturb less than one acre but are part of a larger common plan of development or sale that ultimately disturbs more than one acre. The 5G3 permit is administered by the Department’s BNPC in coordination with the New Jersey Department of Agriculture and the State Soil Conservation Committee through its 15 Soil Conservation Districts located throughout the State (see <https://www.nj.gov/agriculture/divisions/anr/nrc/njdep.html>).

No changes have been made to the final permit as a result of this comment.

16. COMMENT: Part IV Highway GP B.4.e - The NJDEP should be the only authority in New Jersey granting variances or exemptions. Is “grant” in this section supposed to read “be granted”? (SV)

RESPONSE B.16: See response to comment A.6 above. Since not all major development projects are under Departmental review, this permit allows the design and performance standards for stormwater management measures to be met at an alternative location or by alternative means provided the permittee has a mitigation plan which meets the conditions at Part IV.B.4.e.i. Since this requires mitigation, the permittee will still be providing equivalent stormwater management in the watershed, it will just be provided at an alternative location or through alternative means due to an inability for it to be provided at the site or through standard means. Additionally, the requirement to submit the information to the Department within 30 days after approving an alternate location or design will provide the Department an opportunity to ensure the selected mitigation is adequate.

In addition, the use of “grant” in Part IV.B.4.e.ii has already been revised in response to comment A.6 above.

No changes have been made to the final permit as a result of this comment.

17. COMMENT: Part IV Highway GP B.4.g - Is "adequate" defined somewhere in this permit: perhaps in Part IV.C.2? Otherwise EPA believes "adequate" this is left open to interpretation of the permittee. (GS)

RESPONSE B.17: The word "adequate" is not defined in the permit nor does the Department believe that it needs to be defined. "Adequate" is an adjective that describes something that is acceptable or satisfactory.

No changes have been made to the final permit as a result of this comment.

18. COMMENT: Part IV Highway GP B.5.a.iv - EPA believes the use of "improper" in this section is vague and open to interpretation. NJDEP should define or tighten this section with more specifics. (GS)

RESPONSE B.18: The word "improper" is not defined in the permit nor does the Department believe that it needs to be defined. "Improper" is an adjective that describes that something is unsuitable or illicit. EPA's own regulations at 40 CFR 122.34(b)(3)(D) uses this adjective in the same way and states "Inform public employees, businesses, and the general public of hazards associated with illegal discharges and *improper* disposal of waste."

No changes have been made to the final permit as a result of this comment.

19. COMMENT: Part IV Highway GP B.5 - The NJDEP should consider incorporating requirements in this section regarding the use of pesticides, similar to those included for herbicides, as applicable to those permittees that apply pesticides. (KM)

RESPONSE B.19: The suggestion to incorporate a new requirement regarding the use of pesticides is too substantive a change to make from the draft permit to the final permit for a recommendation not required by regulation. The Department will evaluate this suggestion during the outreach for the next iteration of the permit.

No changes have been made to the final permit as a result of this comment.

20. COMMENT: Part IV Highway GP B.5.b - Recommend including the following statement "The permittee shall maintain records of street sweeping, including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons" as a requirement for each of the following control measures:

- a. Quarterly Street Sweeping (Part IV.5.b.ii)
- b. Triannual Street Sweeping (Part IV.5.b.iii)
- c. Annual Street Sweeping (Part IV.5.b.iv)

EPA notes that this requirement is reinforced as a measurable goal in Attachment A, but strongly recommends that NJDEP include recordkeeping as a requirement in the Permit itself and to be consistent with other control measures whereupon NJDEP specifically requires records to be kept and maintained. (KM)

RESPONSE B.20: As the commenter points out the recommended condition is already required in Attachment A, and Attachment A is part of the final permit, which requires the applicable records be kept and their location referenced in the SPPP. In addition, this information is required to be submitted in the permittee's MSRP Annual Report.

The commenter also recommends that NJDEP include recordkeeping as a requirement in the permit itself to be consistent with other control measures. Part IV.B.5.f of the permit is a recordkeeping requirement for the entire Statewide Basic Requirement (SBR) labeled Pollution Prevention / Good Housekeeping, which includes the street sweeping control measures.

No changes have been made to the final permit as a result of this comment.

21. COMMENT: Part IV Highway GP B.5.viii-xv: Documentation requirements should be incorporated into each item in this section of the permit to enable enforcement and ensure compliance with these requirements over time. (KM)

RESPONSE B.21: The Department assumes the commenter is referring to Part IV.B.5.b.viii-xv. As indicated in Response B.20 above, Part IV.B.5.f of the permit is a recordkeeping requirement for the entire Part IV.B.5 Section of the permit, which includes Part IV.B.5.b.viii-xv. In addition, Attachment A of the permit details the recordkeeping requirements for each permit condition in Part IV.B.5.b.viii-xv.

No changes have been made to the final permit as a result of this comment.

22. COMMENT: Part IV Highway GP B.5.ix - EPA recommends using the following language "The permittee shall *permanently* label all storm drains for those that do not have permanent wording cast into the structure of the inlet..." This will prevent the loss of labeling due to temporary labeling such as paint, chalk, or signage susceptible to weathering. This requirement should also be included in Attachment C – Design Standards for Storm Drain Inlets. (KM)

RESPONSE B.22: The Department disagrees with the commenter's recommendation that "The permittee shall *permanently* label all storm drains for those that do not have permanent wording cast into the structure of the inlet..." This recommendation would require permittees to replace every storm drain inlet that does not have permanent wording cast into the structure of the inlet, which the Department believes is costly and unnecessary. Part IV.B.5.b.x of the permit already requires a permittee to maintain the legibility of storm drain inlet labels and replace any labels that are missing or not legible. Additionally, the option to stencil storm drain inlets provides permittees an opportunity to engage members of the public in the application of the message so that the public becomes informed of the importance of allowing only stormwater into storm drain inlets.

No changes have been made to the final permit as a result of this comment.

23. COMMENT: Part IV Highway GP B.5.b.iv - This specific provision could be improved by specifying further what is meant by "proper." Alternatively, you could recommend deleting the word here, adopting a minimum deadline by which this material must be picked up, and providing for some reasonable "as soon as practicable" flexibility if there's an individual need. (GS)

RESPONSE B.23: Part IV.B.5.b.iv of the permit does not contain the word “proper”. While the word “proper” appears in numerous conditions in this section, the Department assumes the commenter is referring to the use of this word in the Roadside Vegetative Waste Management control measure at Part IV.B.5.b.xiv, which states “The permittee shall ensure the *proper* pickup, handling, storage and disposal of wood waste and yard trimmings generated by the Highway Agency.” The use of the adjective “proper” in the context of this condition means conforming to established standards for the management of wood waste and yard trimmings in the State.

No changes have been made to the final permit as a result of this comment.

24. COMMENT: Part IV Highway GP B.5.xi - EPA suggests implementing a retro-fit schedule so that retro-fits do not only occur in areas of new or redevelopment construction. (SV)

RESPONSE B.24: The suggestion to implement a schedule to retrofit all existing storm drain inlets regardless of any repaving, repairing, resurfacing, reconstruction or alteration is too substantive a change to make from the draft permit to the final permit for a recommendation not required by regulation. The Department will evaluate the need to incorporate this suggestion during the outreach for the next iteration of the permit.

No changes have been made to the final permit as a result of this comment.

25. COMMENT: Part IV Highway GP B.6.a - The NJDEP should consider clarifying that an outfall to be monitored also includes discharge points from one MS4 to another and not just direct discharges to surface waterbodies. (KM)

RESPONSE B.25: Part IV B.6.a is the outfall pipe mapping requirement. No provision of this requirement includes “monitoring.” Rather, this requires that the permittee create a map showing the location of their outfalls and the surface water bodies that receive those discharges. Including discharges from one MS4 to another is too substantive of a change to make between draft and final. The definition of outfall (in the permit?) is any point source which discharges directly to waters of the United States not another MS4. EPA’s own regulations at 40 CFR 122.26(b)(9) define “*Outfall*” as “a *point source* as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.” Additionally, requiring the mapping of any discharge from one MS4 to another would be a new additional requirement. The Department will evaluate this suggestion during the outreach for the next iteration of the permit.

No changes have been made to the final permit as a result of this recommendation.

26. COMMENT: Part IV Highway GP B.6.a.v - For NJDEP’s information, EPA is proposing to extend the Phase 2 of the NPDES electronic reporting rule implementation deadline from 12/21/2020 to 12/21/2023 (per Susan Bodine’s 8/22/2019 letter to ACWA). (KM)

RESPONSE B.26: The Department is aware that EPA is proposing to extend the Phase 2 NPDES electronic reporting rule implementation deadline from 12/21/2020 to 12/21/2023. However, since this is only a proposal, and to remain consistent with New Jersey's other recently issued MS4 permits, the Department will not currently be revising this deadline at this time.

No changes have been made to the final permit as a result of this comment.

27. COMMENT: Part IV Highway GP B.6.c.vii - EPA was unable to find a deadline for removal of illicit discharges. The permit should specify some timetable for illicit discharge removal. EPA notes the deadlines for inspection and investigations are excellent. (GS)

RESPONSE B.27: Part IV.B.6.c.vii references documenting illicit inspection investigations. The Department assumes the commenter meant to refer to Part IV.B.6.c.vi which references eliminating illicit connections. The Department agrees that Part IV.B.6.c.vi should have a prescriptive timeline and has determined that one year is a reasonable timeframe. This change ensures consistency with 40 CFR Part 122.34(a) which requires permit requirements that are "expressed in clear, specific, and measurable terms," Part IV.B.6.c.vi is revised as follows:

"Eliminate, within one year of discovery, non-stormwater discharges that are traced to their source and found to be an illicit connection; and"

This change affects Part IV.B.6.c.vi of the final permit.

28. COMMENT: Part IV Highway GP C.2.f - EPA recommends a timeline for taking corrective action. (GS)

RESPONSE B.28: The Department maintains that the language contained Part IV.C.2.f is appropriate and allows permittees the ability to prioritize preventative and corrective maintenance as needed and provides four variables to be considered that may impact repair prioritization. As each maintenance action differs depending on the variables affecting it, the Department maintains that it would be impracticable to create a definitive deadline for permittees to carry out repair activities. The Department understands that there are variables beyond the order in which facilities are inspected that will have an impact on which repair activities are to be considered a higher priority than others. Part IV.C.2.f. is written in this manner to allow permittees flexibility and the ability to implement the condition in a practical manner.

In order to provide regulatory oversight of this requirement, permittees are required to continue to log stormwater facility inspection information and keep prioritization schedules throughout the duration of the permit. These logs and schedules must be made available to the Department if requested. In sum, the Department maintains that Part IV.C.2.f is practical for the purposes of implementation yet is also consistent with the requirements of 40 CFR Part 122.34(a) as it is written in a way that is clear, specific, measurable, and enforceable.

No changes have been made to the final permit as a result of this comment.

29. COMMENT: Part IV Highway GP C.3.a - This section does not establish specific requirements for the permittee, but rather directs them to come up with appropriate steps to address pollutants of concern. Other states have written MS4 permits that require specific actions and deadlines for particular types of pollutants easing enforcement actions. See the water quality compendium on our website. As written, EPA believes that NJDEP will have issues enforcing this section. (GS)

RESPONSE B.29: The referenced permit condition states the following:

“a. The permittee shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering all: maintenance yards; rest areas; service area properties; and new "major development" projects as defined by the permittee's stormwater program. This information may be accessed at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>. The permittee shall use this TMDL information to, at a minimum:

- i. Assist in the selection and design of stormwater BMPs for "major development" projects, and the prioritization of stormwater facility maintenance, including schedules for repairs required at Part IV.B.6.b.vi. (Stream Scouring) and IV.C.3. (Stormwater Facilities Maintenance), above; and
- ii. Identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see “Total Maximum Daily Load (TMDL) Guidance” found at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>).”

This requirement is included in and consistent with the most recent renewals of the MS4 Master General Permits issued to the Tier A Municipalities and Public Complexes. As discussed in a number of the Response to Comments in the Tier A MS4 Permit, these TMDL related requirements were developed in consideration of information garnered from numerous outreach sessions. Specifically, during the development of the Tier A renewal, the Department was made aware of a general lack of awareness among municipal representatives regarding TMDLs. Consequently, the requirements in this section were developed to remedy the gap in awareness and encompasses an iterative step forward. As an iterative step forward, the relative TMDL information is required to be included in each permittee’s updated Stormwater Pollution Prevention Plan (SPPP), which is then required to be posted online on each permittee’s website. The posting of the SPPP on the websites will allow for Departmental review of deficiencies at any time.

The Department believes that this requirement is sufficient at this time and no changes have been made to the final permit as a result of this comment.

30. COMMENT: Part IV Highway GP D - NJDEP should require that “additional measures” be identified in the SPPP as required of “optional measures” in Part IV Highway GP E (Optional Measures). (SV)

RESPONSE B.30: The Department agrees that any Additional Measure(s) that are required to be included in a permittees stormwater program shall be identified in their SPPP. Part IV.D.1.b is revised as follows:

“...For any required Additional Measure(s) other than numeric effluent limitations, the required Additional Measure(s) will specify the BMPs that shall be implemented and the measurable goals. Such BMPs shall be identified in the SPPP as Additional Measure(s). The required Additional Measure(s) will also specify the implementation schedule.”

This change affects Part IV.D.1.b of the final permit.

31. COMMENT: Attachment A - Measurable Goals: As noted previously, the use of the term "measurable goals" EPA believes is problematic. Otherwise, this table is an excellent example of clear, specific, and measurable permit conditions. EPA recommends that NJDEP replace "measurable goals" here with "Permit Requirement" or "Permit Criteria" or something similar. (GS)

RESPONSE B.31: The Department disagrees with the recommendation to replace "measurable goals" with "Permit Requirement" or "Permit Criteria" or something similar. EPA's permit requirements for regulated small MS4 permits at EPA 40 CFR 122.34(a) states "*General requirements.* For any permit issued to a regulated small MS4, the NPDES permitting authority must include permit terms and conditions to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. Terms and conditions that satisfy the requirements of this section must be expressed in clear, specific, and measurable terms." The Department has used EPA's terminology in the naming of this column header and contends its meaning to be an objective condition rather than subjective. All conditions contained in the permit are "Permit Requirements". Attachment A includes the specific measurable goals that the Department will use to determine compliance with the permit and also includes enforceable deadlines for implementing the requirements.

No changes have been made to the final permit as a result of this comment.

C. Robert J. Fisher, P.E., Chief Engineer, NJ Turnpike, in an email from Christopher Rossi dated 09/25/2019.

1. COMMENT: The draft permit includes a grandfathering provision for the proposed amendments to the Stormwater Management Rules at N.J.A.C. 7:8. The permit language should be clarified to clearly indicate that this provision is applicable to all State agencies, including but not limited to the New Jersey Turnpike Authority and New Jersey Department of Transportation. Also, the grandfathering provision does not include projects that require any New Jersey Department of Environmental Protection (NJDEP) permits listed under N.J.A.C. 7:8-1.6(c), i.e., Land Use permits. This provision was presumably added to alleviate the need to re-design publicly funded projects which have already begun final design as of the operative date of the proposed amendments. However, we do not believe that that the provision should be limited to projects that do not require NJDEP permits. Extending the grandfathering provision to all projects that have been authorized for final design would be a more appropriate use of public funds and allow for sound planning of complex infrastructure projects. At a minimum, the provision should be revised to be consistent with that which is applied to projects subject to the Municipal Land Use Law (i.e., non-public projects), which includes projects that have submitted a technically complete application to the NJDEP prior to the operative date of the proposed amendments.

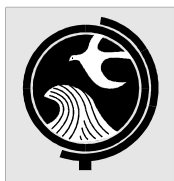
RESPONSE C.1: The grandfathering provision at Part IV.B.4.i does not need to be clarified to indicate that the provision applies to all State agencies, including but not limited to the New Jersey Turnpike Authority and New Jersey Department of Transportation since this condition is applicable to all authorized permittees under this general permit. In addition, the commenter does not believe that that the provision should be limited to projects that do not require NJDEP permits. The Department disagrees since there is no need to apply this “grandfathering” provision to projects that require Department permits under N.J.A.C. 7:8-1.6(c) because these projects are “grandfathered” by proposed N.J.A.C. 7:8-1.6(b)2, which states “Major development for which a technically complete application was submitted to the Department for one of the approvals listed at (c) below prior to (the operative date of this proposed amendment), provided that the application included a stormwater management review component.”

No changes have been made to the final permit as a result of this comment.

2. COMMENT: We recommend that the definitions of storm drain inlets and catch basins be clarified. In discussing this issue with Stephen Boyer, the intent was to define "inlets" as essentially the grates and any structure beneath the grates as the "catch basins." We recommend that the definitions be modified to clarify this intent.

RESPONSE C.2: The Department feels the definition of “storm drain inlet” in this permit has a clear meaning as the point of entry into a storm drain system and does not need clarification. The commenter previously questioned the Department on the definition of “catch basin” and asked if the Department considered the area beneath the storm drain inlet to be a catch basin if it was only comprised of a box with an outlet pipe at the base of box and did not contain a sump to collect sediment. Based on the definition of catch basin in this permit, which means “a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants”, this box would not meet the definition of a “catch basin” since it was not built to capture sediment. This box would be considered a stormwater facility (part of the permittee’s stormwater conveyance system) and be required to be inspected and maintained in accordance with part IV.C.2 of the permit.

No changes have been made to the final permit as a result of this comment.



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0141887

Final: Stormwater Discharge Master General Permit Renewal

Permittee:

Master General Permit
Per Individual Notice of Authorization

Co-Permittee:

Property Owner:

NJDEP Division of Water Quality
401 E State St
Trenton, NJ 08625

Location Of Activity:

Master General Permit
Per Individual Notice of Authorization

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
R12 -Highway Agency Stormwater General Permit	11/29/2019	01/01/2020	12/31/2024

By Authority of:
Commissioner's Office

DEP AUTHORIZATION
Gabriel Mahon, Chief
Bureau of Nonpoint Pollution Control
Water Pollution Management Element

(Terms, conditions and provisions attached hereto)

PART I GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
 - Penalties for Violations N.J.A.C. 7:14-8.1 et seq.
 - Incorporation by Reference N.J.A.C. 7:14A-2.3
 - Toxic Pollutants N.J.A.C. 7:14A-6.2(a)4i
 - Duty to Comply N.J.A.C. 7:14A-6.2(a)1 & 4
 - Duty to Mitigate N.J.A.C. 7:14A-6.2(a)5 & 11
 - Inspection and Entry N.J.A.C. 7:14A-2.11(e)
 - Enforcement Action N.J.A.C. 7:14A-2.9
 - Duty to Reapply N.J.A.C. 7:14A-4.2(e)3
 - Signatory Requirements for Applications and Reports N.J.A.C. 7:14A-4.9
 - Effect of Permit/Other Laws N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
 - Severability N.J.A.C. 7:14A-2.2
 - Administrative Continuation of Permits N.J.A.C. 7:14A-2.8
 - Permit Actions N.J.A.C. 7:14A-2.7(c)
 - Reopener Clause N.J.A.C. 7:14A-6.2(a)10
 - Permit Duration and Renewal N.J.A.C. 7:14A-2.7(a) & (b)
 - Consolidation of Permit Process N.J.A.C. 7:14A-15.5
 - Confidentiality N.J.A.C. 7:14A-18.2 & 2.11(g)
 - Fee Schedule N.J.A.C. 7:14A-3.1
 - Treatment Works Approval N.J.A.C. 7:14A-22 & 23
- c. Operation And Maintenance
 - Need to Halt or Reduce not a Defense N.J.A.C. 7:14A-2.9(b)
 - Proper Operation and Maintenance N.J.A.C. 7:14A-6.12
- d. Monitoring And Records
 - Monitoring N.J.A.C. 7:14A-6.5
 - Recordkeeping N.J.A.C. 7:14A-6.6
 - Signatory Requirements for Monitoring Reports N.J.A.C. 7:14A-6.9
- e. Reporting Requirements
 - Planned Changes N.J.A.C. 7:14A-6.7
 - Reporting of Monitoring Results N.J.A.C. 7:14A-6.8
 - Noncompliance Reporting
 - Hotline/Two Hour & Twenty-four Hour Reporting N.J.A.C. 7:14A-6.10 & 6.8(h)
 - Written Reporting N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h)
 - Duty to Provide Information N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
 - Schedules of Compliance N.J.A.C. 7:14A-6.4
 - Transfer N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Additional Requirements Incorporated by Reference

- a. The Stormwater Management rules at N.J.A.C. 7:8.
- b. Conditions for General Permits at N.J.A.C. 7:14A-6.13, including the Department's authority to require, for due cause, a permittee to apply for and obtain a different stormwater permit for specific activities otherwise authorized under this permit.
- c. Additional Conditions applicable to UIC permits at N.J.A.C. 7:14A-8.9, UIC Corrective Action (N.J.A.C. 7:14A-8.11) and UIC Operating Criteria (N.J.A.C. 7:14A-8.16).
- d. Conditions for reopening and modification of small MS4 permits at N.J.A.C. 7:14A-16.4(b) and N.J.A.C. 7:14A-25.7(b).
- e. Requirements for Discharges to Ground Water at N.J.A.C. 7:14A-7.
- f. National Pollutant Discharge Elimination System (NPDES) Electronic Reporting rule at 40 CFR Part 127.

B. General Conditions

1. Notification of Non-Compliance

- a. The permittee shall notify the Department of any non-compliance when required by N.J.A.C. 7:14A-6.10 by contacting the DEP Hotline at 1-877-WARN-DEP.

2. Discharge of Pollutants

- a. For discharges authorized by this permit, the permittee is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in this NJPDES permit or listed and quantified in the Request for Authorization (RFA) shall not constitute a violation of the permit.

3. Standard Reporting Requirements – Electronic Reporting of NPDES Information

- a. Unless already required by this permit to be submitted electronically by an earlier date, effective December 21, 2020 (for information on the NPDES eRule, see www.epa.gov/compliance/npdes-ereporting), the below identified documents and reports shall be electronically submitted via the Department's designated electronic submission service:
 - i. General permit authorization requests (i.e. RFAs);
 - ii. General permit termination/revocation requests; and
 - iii. Municipal separate storm sewer system (MS4) program reports (see Part IV.G).

4. Other Regulatory Requirements

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. The issuance of this permit shall not be considered as a waiver of any applicable federal, State or local rules, regulations and ordinances.
- c. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to, N.J.A.C. 7:50 (the Pinelands rules), N.J.A.C. 7:1-E (Discharges of Petroleum and other Hazardous Substances), regulations concerning threatened and endangered species and their designated critical habitat, and other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be “pursuant to and in compliance with this permit” within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.
- d. While the permittee is required to comply with applicable operation and maintenance requirements of N.J.A.C. 7:14A-6.12(a), the permittee is exempt from the operations and maintenance manual requirements of N.J.A.C. 7:14A-6.12(c). This exemption applies only to discharges authorized under this permit and does not alter the operation and maintenance requirements for stormwater facilities specified in this permit or N.J.A.C. 7:8.

C. Eligibility

1. Permit Scope

- a. This general permit applies to all stormwater discharges from small MS4s at highways or other thoroughfares that are owned or operated by a “Highway Agency” under N.J.A.C. 7:14A-25.2(a)3.
- b. For purposes of this permit and as described under N.J.A.C. 7:14A-25.2(a)3, a “Highway Agency” is a county, state, interstate or federal agency that operates a small MS4 at a “highway or other thoroughfare” (including a maintenance or service facility or rest area for such a thoroughfare). A “highway or other thoroughfare” does not include:
 - i. Any thoroughfare confined to the grounds of a single building, or of two or more buildings that are not a “public complex” as described in N.J.A.C. 7:14-A-25.2(a)2 (unless that building(s) is a maintenance or service facility for a highway or other thoroughfare not confined to such grounds);
 - ii. Any thoroughfare confined to the grounds of a “public complex” (each such thoroughfare is instead considered part of the “public complex”); or
 - iii. Any thoroughfare (other than the Palisades Interstate Parkway) confined to an officially designated park, forest, recreational area, natural area, wildlife management area, or area set aside for water supply protection.
- c. The short title of this permit is the “Highway Agency MS4 NJPDES permit.”

2. Authorized Discharges Under the Highway Agency MS4 NJPDES Permit

- a. Eligible Stormwater Discharges – Except as provided in Part II.C.3 below, this permit authorizes all new and existing stormwater discharges to surface water and groundwater from:
 - i. Small MS4s (as defined at N.J.A.C. 7:14A-1.2) that are owned or operated by a “Highway Agency”.

- ii. Maintenance yards and other ancillary operations (see Part IV.B.5.c) that are owned or operated by a “Highway Agency”.
- b. Eligible Non-Stormwater Discharges – Except as identified in Part II.C.3.e below, the following new and existing non-stormwater discharges from small MS4s owned or operated by Highway Agencies and from maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Highway Agencies are eligible for authorization under this permit:
 - i. Potable water line flushing and discharges from potable water sources, excluding the discharge of filter backwash and first flush water from potable well development/redevelopment activities utilizing chemicals in accordance with N.J.A.C. 7:9D. The volume of first flush water, which is a minimum of three times the volume of the well water column, shall be handled and disposed of properly;
 - ii. Uncontaminated ground water (e.g. infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters);
 - iii. Air conditioning condensate (excluding contact and non-contact cooling water; and industrial refrigerant condensate);
 - iv. Irrigation water (including landscape and lawn watering runoff);
 - v. Flows from springs, riparian habitats, wetlands, water reservoir discharges and diverted stream flows;
 - vi. Residential car washing water; and dechlorinated swimming pool discharges from single family residential homes;
 - vii. Sidewalk, driveway and street wash water;
 - viii. Flows from firefighting activities;
 - ix. Flows from clean water rinsing of beach maintenance equipment immediately following use and only if the equipment is used for its intended purpose;
 - x. Flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing materials. Prior to rinsing, all equipment shall be cleaned using dry methods such as shoveling and sweeping. Recovered materials are to be returned to storage or properly discarded; and
 - xi. Rinsing of equipment in Part II.C.2.b.ix and x, above is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

3. Discharges Not Authorized Under the Highway Agency MS4 NJPDES Permit

- a. Stormwater Discharges Associated with Industrial Activity.
 - i. The Highway Agency MS4 NJPDES Permit does not authorize “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit.
 - ii. Types of facilities that a permittee might operate and that are considered to be engaging in “industrial activity” include but are not limited to certain: 1) landfills; 2) transportation facilities (including certain local passenger transit and air transportation facilities); 3) facilities handling domestic sewage or sewage sludge; and 4) steam electric power generating facilities.

- iii. Yard Trimmings and Wood Waste Management Sites that are not owned and operated by the permittee.
 - iv. The Highway Agency MS4 NJPDES Permit does not authorize the discharge of stormwater that comes in contact with source material from Yard Trimmings and Wood Waste Management Sites that are owned or operated by the Highway Agency to storm sewer inlets or to surface waters of the State.
 - v. Any permittee that operates an industrial facility with such a discharge must submit a separate Request for Authorization (RFA) or individual permit application for that discharge. An RFA submitted for the Highway Agency MS4 NJPDES Permit does not qualify as an RFA for such a discharge.
- b. Stormwater Discharges Associated with Construction Activity
- i. The Highway Agency MS4 NJPDES Permit does not authorize “stormwater discharges associated with construction activity” as described in N.J.A.C. 7:14A-24.10(a). In general, this is the discharge to surface water of stormwater from construction activity that disturbs at least one acre.
 - ii. Any permittee that operates a construction site with such a discharge shall submit a separate RFA under NJPDES Permit No. NJ0088323 (General Stormwater Permit Construction Activity, see www.nj.gov/dep/dwq/5g3.htm), or an application for an individual permit for that discharge. An RFA submitted for the Highway Agency MS4 NJPDES Permit does not qualify as an RFA for such a discharge. See Part IV.B.3 of the Highway Agency MS4 NJPDES Permit.
- c. Stormwater Discharges Authorized under Another NJPDES Permit
- i. The Highway Agency MS4 NJPDES Permit does not authorize any stormwater discharge that is authorized under another NJPDES permit.
 - ii. A permittee does not have to implement measures contained in this NJPDES permit for stormwater discharges at facilities owned or operated by that Highway Agency that are regulated under a separate NJPDES stormwater permit authorizing those discharges.
- d. Stormwater Discharges that Conflict with a Water Quality Management Plan
- i. The Highway Agency MS4 NJPDES Permit does not authorize stormwater discharges from projects or activities that conflict with an adopted Areawide or Statewide Water Quality Management Plan.
- e. Non-Stormwater Discharges that are Contributors of Pollutants
- i. If any of the discharges listed in Part II.C.2.b above are identified by the permittee as a significant contributor of pollutants to or from the MS4, the permittee must address the discharge as an illicit connection or as an improper disposal of waste as specified in Part IV.B.6 of this permit.

4. Exclusions

- a. Any owner, operator, and/or discharger authorized by this general permit may request to be excluded from the coverage of the general NJPDES permit by applying for an individual permit. The owner, operator, and/or discharger shall submit an application in accordance with N.J.A.C. 7:14A-4, with reasons supporting the request, to the NJDEP. The request shall be processed under N.J.A.C. 7:14A-15, 16 and 17. The request shall be granted by the issuance of an individual permit if the reasons cited by the owner, operator and/or discharger are adequate to support the request.

- b. An owner, operator, and/or discharger excluded from this general NJPDES permit solely because of an existing individual permit, may request that the individual permit be revoked or modified, as appropriate, and that the discharge be authorized by the general NJPDES permit. Upon revocation or modification of the individual permit, the permittee shall be authorized under the general permit.

D. Administrative Process

1. Automatic Renewal of Authorizations

- a. Upon reissuance of this general permit, existing authorizations shall be automatically renewed as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 using the information provided in the permittees' most recently submitted RFA.

2. Notification of Changes

- a. A permittee shall provide a corrected RFA to the Department within 90 days of the effective date of a renewed authorization under this general permit if any information in its most recently submitted RFA is no longer true, accurate, and/or complete.
- b. The permittee shall notify the Department of any changes of its Stormwater Program Coordinator information within 30 days of such change through the online MSRP Annual Report or using the Information Update Sheet posted at www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf as specified in Part IV F.3.d. of this permit.
- c. A permittee that already has authorization to discharge from a small MS4 under the Highway Agency MS4 NJPDES permit does not need to submit an RFA for the expansion (e.g. new building, new parking lot) of an existing small MS4.

3. Requests for Authorization

- a. New RFAs under the Highway Agency MS4 permit
 - i. A single RFA is required for the entire eligible discharge from an entire small MS4 owned or operated by a Highway Agency, or the Highway Agency may divide the small MS4 into smaller regions and submit a separate RFA for each of these smaller regions.
 - ii. The Department may choose to issue single or multiple authorizations under this permit to a Highway Agency regardless of whether the Highway Agency submitted a single or multiple RFAs.
 - iii. An RFA under this general permit shall include the following: A completed NJPDES 1 Form, a completed R12 Supplemental Application Form, and any other information as required by the Department.
- b. Upon receipt of an RFA the Department may, in accordance with N.J.A.C. 7:14A-6.13, do one of the following:
 - i. Issue notification of authorization under this permit;
 - ii. Deny authorization under this permit and require submittal of an application for an individual permit; or
 - iii. Deny authorization under this permit and require submittal of an RFA for another general permit.

- c. The Department may notify a person that the discharge is authorized by a general permit, even if the person has not submitted an RFA. A person so notified may nonetheless request an individual permit under C.4 above.

PART III

Recordkeeping and Reporting

The permittee shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records is found at Part IV.F of this permit, and the requirement to submit an Annual Report and Certification is found at Part IV.G of this permit.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

1. Acronyms

- a. Stormwater acronyms included in this permit are as follows:
 - i. "BMP" - Best Management Practice
 - ii. "CFR" - Code of Federal Regulations
 - iii. "EDPA" - Effective Date of Permit Authorization
 - iv. "EPA" - United States Environmental Protection Agency
 - v. "GIS" – Geographic Information System
 - vi. "MS4" - Municipal Separate Storm Sewer System
 - vii. "MSRP" - Municipal Stormwater Regulation Program
 - viii. "MTD" - Manufactured Treatment Device
 - ix. "N.J.A.C." - New Jersey Administrative Code
 - x. "NJPDES" - New Jersey Pollutant Discharge Elimination System
 - xi. "N.J.S.A." - New Jersey Statutes Annotated
 - xii. "RFA" - Request for Authorization
 - xiii. "SPPP" - Stormwater Pollution Prevention Plan
 - xiv. "TMDL" - Total Maximum Daily Load

2. Internal Cross References

- a. For the purposes of this permit:
 - i. References to Part IV Notes and Definitions are preceded with the words "Notes and Definitions" (e.g. Notes and Definitions Part IV.A.1 refers to Acronyms).
 - ii. References to Part IV Highway Agency MS4 NJPDES Permit are not preceded by descriptive text (e.g. Part IV.A.1 refers to Stormwater Program).

3. Department Resources for Guidance Relating to MS4 Issues

- a. MS4 main website and related links: https://www.nj.gov/dep/dwq/msrp_home.htm

- b. MS4 Highway Agency Guidance document: https://www.nj.gov/dep/dwq/highway_guidance.htm
- c. Construction Site Stormwater Runoff: <https://www.nj.gov/dep/dwq/5g3.htm>
- d. Snow Removal and Disposal Policy: https://www.nj.gov/dep/dwq/bnpc_home.htm
- e. Green Infrastructure and related links: <https://www.nj.gov/dep/gi/>
- f. Stormwater management information and training tools: <https://www.nj.gov/dep/stormwater/>
- g. Public education for stormwater pollution: <https://www.cleanwaternj.org>
- h. Clean Communities, a statewide litter abatement program: <https://www.njclean.org>
- i. Total Maximum Daily Load (TMDL) information: <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>

4. EPA Resources for Guidance Relating to MS4 Issues

- a. EPA's MS4 website and related links:
www.epa.gov/npdes/stormwater-discharges-municipal-sources
- b. EPA's National Menu of Stormwater Best Management Practices:
www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater
- c. EPA's guidance for Green Infrastructure:
<http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm>
- d. EPA's Trash Free Waters resource page: www.epa.gov/trash-free-waters
- e. Illicit Discharge Detection and Elimination Guidance
www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf

B. Definitions

1. Definitions

- a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.
- b. "Catch Basin" means a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants.
- c. "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under this Highway Agency MS4 NJPDES permit becomes effective. This date may be found on the permittee's Authorization to Discharge page.
- d. "Existing permittee" means a permittee that held an authorization to discharge under the Highway Agency MS4 NJPDES permit the day before the effective date of this permit.
- e. "Green infrastructure" means methods of stormwater management that reduce wet weather/stormwater volume, flow, or changes the characteristics of the flow into combined or separate sanitary or storm sewers, or surface waters, by allowing the stormwater to infiltrate, to be treated by vegetation or by soils, or to be stored for reuse. Green infrastructure includes, but is not limited to, pervious paving, bioretention basins, vegetated swales, and cisterns.

- f. "Illicit connection" means any physical or non-physical (i.e. leak, flow, or overflow into the municipal separate storm sewer system) connection that discharges the following to a municipal separate storm sewer system (unless that discharge is authorized under a NJPDES permit other than this Highway Agency MS4 NJPDES permit):
- i. Domestic sewage;
 - ii. Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater);
or
 - iii. Any category of non-stormwater discharges that a permittee for the MS4 identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).
- g. "Limited-access highway" means every highway, street, or roadway in respect to which owners or occupants of abutting lands and other persons have no legal right of access to or from the same except at such points only and in such manner as may be determined by the public authority having jurisdiction over such highway, street, or roadway; and includes any highway designated as a "freeway" or "parkway" by authority of law.
- h. "Maintenance plan" means a maintenance plan pursuant to N.J.A.C. 7:8-5.2(b) and 5.8 prepared by the design engineer for the stormwater management measures incorporated into the design of a major development.
- i. "Major development" means any development that provides for ultimately disturbing one or more acres of land and any additional development defined as "major development" by a permittee's stormwater program. Disturbance is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered "major development."
- j. "Manufactured treatment device" means a pre-fabricated stormwater treatment structure utilizing settling, filtration, absorptive/adsorptive materials, vortex separation, vegetative components, and/or other appropriate technology to remove pollutants from stormwater runoff.
- k. "New permittee" means a permittee that obtains its first authorization to discharge under the Highway Agency MS4 NJPDES permit on or after the effective date of this permit.
- l. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (a door is recommended, but not required). A fabric frame structure is a permanent structure if it meets the following specifications:
- i. Concrete blocks, jersey barriers or other similar material shall be placed around the interior of the structure to protect the side walls during loading and unloading of de-icing materials;
 - ii. The design shall prevent stormwater run-on and run through and the fabric cannot leak;
 - iii. The structure shall be erected on an impermeable slab;
 - iv. The structure cannot be open sided; and
 - v. The structure shall have a roll up door or other means of sealing the access way from wind driven rainfall.

- m. "Regulatory mechanism" means an ordinance, permit, standard, contract language, or any other procedure, that will be enforced by the permittee.
- n. "Small MS4" means all municipal separate storm sewers systems (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:
 - i. Owned or operated by municipalities described under N.J.A.C. 7:14A-25.1(b);
 - ii. Owned or operated by county, State, interstate, or Federal agencies, and located at public complexes as described under N.J.A.C. 7:14A-25.2(a)2;
 - iii. Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or
 - iv. Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.
 - v. Note that all MS4s covered under the Highway Agency MS4 NJPDES permit are "small MS4s".
- o. "Solids and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids as defined at N.J.A.C. 7:14A-25.6(b)3iii.
- p. "Storm drain inlet" means the point of entry into the storm drain system.
- q. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface; is transmitted to the subsurface; is captured by separate storm sewers or other sewerage or drainage facilities; or is conveyed by snow removal equipment.
- r. "Stormwater facility" includes, but is not limited to: catch basins, detention basins, retention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances. Stormwater facilities include structural stormwater management measures.
- s. "Stormwater management basin" means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management basin may either be normally dry (that is, a detention basin or infiltration basin), retain water in a permanent pool (a retention basin or wet pond), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).
- t. "Stormwater management measure" means any structural or nonstructural strategy, practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances. Stormwater management measures include stormwater facilities.
- u. "Stormwater runoff" means water flow on the surface of the ground or in storm sewers, resulting from precipitation.
- v. "Stream scouring" means the erosion or removal of streambed or bank material by the physical action of flowing water and the sediment that it carries.
- w. "Subsurface infiltration/detention system" means a vault, perforated pipe, and/or stone bed that is located entirely below the ground surface and that temporarily stores and attenuates stormwater runoff."
- x. "Wood waste" means source separated whole trees, tree trunks, tree parts, tree stumps, brush and leaves provided that they are not composted, and lumber (non-chemically treated and unpainted).

- y. "Yard trimmings" means grass clippings, leaves, wood chips from tree parts, and brush.
- z. "Yard waste" means loose leaves and grass clippings.

Highway Agency Stormwater General Permit

A. Stormwater Management Program

1. Stormwater Program Requirements

- a. The permittee shall develop, update, implement and enforce an MS4 stormwater program. A primary objective of the MS4 stormwater program shall be to implement best management practices and other measures that are designed to reduce the discharge of pollutants from the permittee's MS4, maintenance yards and other ancillary operations, to the maximum extent practicable pursuant to N.J.A.C. 7:14A-25.6(a)1 and 40 CFR 122.34(a), to protect water quality and to satisfy the applicable water quality requirements of the Clean Water Act.
- b. The permittee shall modify its stormwater program (including necessary modification to applicable plans and appropriate regulatory mechanisms) to conform with applicable new legislation, or new or amended regulations. Such modification shall be completed and effective within 12 months of notification by the Department of the need for modification.
- c. The permittee shall develop, update, implement, and maintain a written Stormwater Pollution Prevention Plan (SPPP) for each authorization issued under the Highway Agency MS4 NJPDES permit that meets the requirements in Part IV.A.2 below (see the Highway Agency Guidance document https://www.nj.gov/dep/dwq/highway_guidance.htm).
- d. The permittee shall designate a Stormwater Program Coordinator (Stormwater Coordinator) who has overall responsibility for the operation of the permittee's stormwater facilities or environmental matters as follows:
 - i. The Stormwater Coordinator shall be either a principal executive officer or a duly authorized representative, as allowed by N.J.A.C. 7:14A-4.9(b); and
 - ii. If an assignment under i. above changes, then a new assignment of responsibility shall be submitted to the Department within 30 days of such change taking place. This is accomplished through completion of the online MSRP Annual Report (see Part IV.G Annual Report and Certification below) or the Stormwater Program Coordinator Information Update Sheet posted at https://www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf.
- e. The Stormwater Coordinator shall be responsible for the following:
 - i. Coordinating the permittee's implementation of the Highway Agency MS4 NJPDES permit conditions and the SPPP;
 - ii. Signing and dating the SPPP; and
 - iii. Coordinating the completion and submittal of the MSRP Annual Report, consistent with Part IV.G.

2. Stormwater Pollution Prevention Plan (SPPP) Requirements

- a. The permittee's SPPP shall include, at a minimum, information that:
 - i. Identifies the person designated as the Stormwater Coordinator per Part IV.A.1.d above;
 - ii. Identifies the members of the SPPP Team, which is comprised of the person or persons responsible for implementing or coordinating the SPPP activities;

Highway Agency Stormwater General Permit

- iii. Identifies each individual maintenance yard to be covered under each permit authorization, including the geographic region and site specific details of each yard. At a minimum, the SPPP for permittees with multiple yards must include an individual Form 10 (Maintenance Yards and Other Ancillary Operations) for each yard, as well as any other site specific SPPP Forms for each yard, where applicable;
 - iv. Describes the measures necessary for compliance with all components of this permit including all measures described in Parts IV.B, C, D, E and F below;
 - v. Documents the permittee's MS4 Stormwater Program including a description of shared or contracted services as allowed under Part IV.A.3 (Implementation of SPPP Conditions through Shared or Contracted Services), below; and
 - vi. Reflects the measurable goals, implementation schedules, recordkeeping and other requirements in Attachment A (Measurable Goals and Implementation Schedule).
- b. The permittee's Stormwater Coordinator shall sign and date the SPPP per Part IV.A.1.e., above.
 - c. The permittee shall review the SPPP at least annually and update it as often as necessary to reflect changes related to the permittee's MS4 Stormwater Program. Any amendments to the SPPP:
 - i. Shall continue to meet the requirements of this permit;
 - ii. Shall be incorporated into the SPPP and recorded on the SPPP revisions page; and
 - iii. Shall be signed and dated by the Stormwater Coordinator.
 - d. The SPPP shall note the location of all records / documentation required by this permit (See Attachment A- Measurable Goals and Implementation Schedule for additional detail).
 - e. The Department may notify the permittee at any time that the SPPP does not meet one or more of the minimum requirements. Within thirty (30) days after receiving such notification unless otherwise specified by the Department, the permittee shall amend the SPPP to adequately address all deficiencies.
 - f. The current SPPP shall be posted on the permittee's website no later than EDPA + 90 days with updates posted annually thereafter. The version posted on the website can exclude:
 - i. Inspection logs and other required record keeping; and
 - ii. The names of SPPP Team members, but must include the name of the Stormwater Coordinator.
 - g. The SPPP shall be made available to the Department and public upon request pursuant to N.J.A.C. 7:14A-25.6(j)2.
 - h. New Permittee: A new permittee shall develop, implement, maintain, and post on the permittee's website a written SPPP as required by this section on or before EDPA + 12 months.

3. Implementation of Permit Conditions through Shared or Contracted Services

- a. The permittee may rely on another governmental, private, or nonprofit entity to satisfy one or more of the permit conditions, or component thereof, through the implementation of best management practices or control measures, provided that:
 - i. The other entity implements the best management practice(s) or control measure(s);

- ii. The particular best management practice(s) or control measure(s), or component(s) thereof, is at least as stringent or as frequent as the corresponding permit requirement;
 - iii. The other entity agrees in writing or is required by law to implement the measure(s), or component(s) thereof, in such a manner that is in compliance with the permit on the permittee’s behalf; and
 - iv. The permittee specifies in its SPPP (1) which permit conditions will be implemented by another entity and (2) the name of the responsible entity.
- b. For any projects or activities which the permittee assigns to another entity which is a private contractor, the awarded contract shall require the contractor to conduct such projects or activities in such a manner that is in compliance with this permit.
 - c. The permittee is responsible for compliance with this permit if the other entity fails to implement the measure(s) or component(s), thereof.

B. Statewide Basic Requirements and Associated Conditions

1. Minimum Standards for Public Involvement and Participation Including Public Notice

- a. The permittee shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of an MS4 stormwater program. Requirements include but are not limited to:
 - i. The Open Public Meetings Act (“Sunshine Law,” N.J.S.A. 10:4-6 et seq.); and
 - ii. Statutory procedures for the enactment of ordinances or other regulatory mechanisms (e.g., N.J.S.A. 40:49-2, 40:41A-101, or 52:14B-1 et seq., where applicable), adopted to comply with Part IV of this permit.
- b. The permittee shall make the following elements of its MS4 stormwater program available to the public:
 - i. Provide the current SPPP upon request as required by Part IV.A.2.g (SPPP); and
 - ii. Post the current SPPP on its website to the extent required by Part IV.A.2.f (SPPP); and
 - iii. Post all regulatory mechanisms required by this permit (see Part IV.B.5.a) on its website.
- c. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation Including Public Notice specified in Attachment A (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Local Public Education and Outreach

- a. Highway Agencies that own or operate rest areas and/or service areas shall implement a Local Public Education and Outreach Program that focuses on educational and pollution prevention activities to involve the public in reducing pollutants in stormwater and mitigating flow. The permittee shall:
 - i. Annually conduct activities that total at least 5 (five) points as set forth in Attachment B (Points System for Public Education Activities) of this permit; and

- ii. Keep records to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.
- b. All other permittees not identified in 2.a above may satisfy the educational component of the permit through the implementation of an employee training program pursuant to Part IV.B.5.d (Employee Training) of this permit.
- c. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A (Measurable Goals and Implementation Schedule).

3. Minimum Standards for Construction Site Stormwater Runoff

- a. Construction site stormwater runoff activities are authorized under a separate NJPDES permit, generally the Construction Activity Stormwater General Permit No. NJ0088323 pursuant to N.J.A.C. 7:14A-25.6(b)2 (or an individual permit pursuant to N.J.A.C. 7:14A-24.7(a)2). See Part II.C.3.b and <https://www.nj.gov/dep/dwq/5g3.htm>. Pursuant to N.J.A.C. 7:14A-25.7(b), the permittee is not required to reference construction site stormwater runoff control in its SPPP.

4. Minimum Standards for Post Construction Stormwater Management in New Development and Redevelopment

- a. The permittee shall develop, update, implement and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment projects owned or operated by the permittee, and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8 et seq.
- b. The permittee shall address stormwater runoff from the following types of major development through a post construction stormwater management program, unless any additional development is defined as “major development” by the permittee’s stormwater program:
 - i. New development and redevelopment projects that disturb one acre or more and are owned or operated by the permittee; and
 - ii. All new development and redevelopment projects that are less than one acre that are part of a larger common plan of development that ultimately disturbs one acre or more.
- c. The permittee shall ensure, through a post construction stormwater management program, compliance with the applicable design, performance and maintenance standards established under N.J.A.C. 7:8 et seq. for major development as defined in this permit.
- d. The permittee shall review and analyze development plans for compliance with N.J.A.C. 7:8 et seq. The permittee’s review engineer shall be independent from the design engineer and shall not have been involved in the design of the development plans. The permittee shall review and analyze development plans for compliance with N.J.A.C. 7:8 et seq. even if a permit is required by the Department for the same or similar activity (e.g. a Land Use permit).
- e. The design and performance standards for stormwater management measures can be met at an alternative location or by alternative means provided the permittee has a mitigation plan which meets the following requirements:

- i. The mitigation plan shall identify measures that are necessary to offset the deficit created by the alternate location or design. The mitigation plan must satisfy the same criteria that a mitigation plan prepared in accordance with the Stormwater Management Rule N.J.A.C. 7:8-4.6 must satisfy. See Chapter 3 of the NJ Stormwater BMP Manual at <https://www.njstormwater.org> for guidance; and
 - ii. The permittee submits, within 30 days after approving an alternate location or design, a written report to the Department describing the alternate location or design and the required mitigation. Submit the written report to the Department at:
NJDEP-DWQ-BNPC
Mail Code 401-02B
PO Box 420
Trenton, NJ 08625-0420
- f. The permittee shall comply with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets.
 - g. The permittee shall ensure adequate long-term cleaning, operation and maintenance of stormwater management measures, pursuant to Part IV.C.2. (Stormwater Facilities Maintenance), owned or operated by the permittee.
 - h. For each structural and non-structural stormwater measure (e.g. stormwater management basin, subsurface infiltration/detention system, manufactured treatment device, green infrastructure), the permittee shall:
 - i. Update and maintain a Major Development Project List (included as Attachment D of this permit and posted on the Department's website at <https://www.nj.gov/dep/dwq/highway.htm>); and
 - ii. Submit the Major Development Project List to the Department annually with the MSRP Annual Report.
 - i. Major development that does not require any Department permits listed under N.J.A.C. 7:8-1.6(c) and has received Federal or State authorization to initiate final design as of the operative date of amendments to the Stormwater Management Rules at N.J.A.C. 7:8, shall be subject to the Stormwater Management Rules in effect one day before the operative date of the rule amendments.
 - j. The Stormwater Management rules N.J.A.C. 7:8 apply to all areas owned or operated by the permittee.
 - k. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A (Measurable Goals and Implementation Schedule).

5. Minimum Standards for Pollution Prevention / Good Housekeeping

- a. Regulatory Mechanisms: The permittee shall adopt and enforce the following regulatory mechanisms to address improper disposal of waste:
 - i. Pet Waste Control: Adopt and enforce an appropriate regulatory mechanism that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any part of the Highway Agency property;

- ii. **Wildlife Feeding Control:** Adopt and enforce an appropriate regulatory mechanism that prohibits the feeding of any wildlife (e.g. Canada Geese) on any property owned or operated by the permittee. Exclusions include wildlife confined in zoos, parks, or rehabilitation centers as well the following unconfined animals: (1) wildlife at environmental education centers; (2) feral cats as part of an approved Trap-Neuter-Release program; and (3) other kinds of unconfined animals, if any, that the regulatory mechanism specifically lists and excludes for reasons set forth in the regulatory mechanism;
 - iii. **Litter Control:** Enforce the existing State litter statute at N.J.S.A 13:1E-99.3, or adopt and enforce an appropriate regulatory mechanism that is at least as stringent as the State litter statute;
 - iv. **Improper Disposal of Waste:** Adopt and enforce an appropriate regulatory mechanism prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the MS4 system excluding those discharges as allowable under Part II.C.2.b;
 - v. Model regulatory mechanism language for the above requirements can be found in the Highway Agency Guidance document at <https://www.nj.gov/dep/dwq/highway.htm>; and
 - vi. An additional requirement for the adoption and enforcement of an appropriate regulatory mechanism is found at Part IV.B.6.d (Illicit Connection Prohibition) of this permit.
- b. **Control Measures:** The permittee shall develop and continue to implement the following measures to control solids and floatables:
- i. **Litter Pick-Up Program:** The permittee shall develop and implement a litter pick up program that includes roadside clean-up of trash and debris and regular collection of refuse from litter and recycling receptacles owned and operated by the permittee, including those located at rest areas and service areas. The permittee shall maintain records of roadside clean-ups and estimates of the total amount of trash and debris collected;
 - ii. **Quarterly Street Sweeping:** The permittee shall sweep, at a minimum of once every three months, or more frequently as necessary to eliminate recurring problems, all segments of limited-access highways (including ramps and parking areas) that are owned or operated by the permittee and have storm drain inlets or discharge directly to surface water;
 - iii. **Triannual Street Sweeping:** The permittee shall sweep, at a minimum of once every four months, or more frequently as necessary to eliminate recurring problems, all segments of streets, ramps, and parking areas that are owned or operated by the permittee and have storm drain inlets or discharge directly to surface water but are not limited-access highways;
 - iv. **Annual Street Sweeping:** The permittee shall sweep, at a minimum of once per year, or more frequently as necessary to eliminate recurring problems, all segments of streets, ramps and parking areas that are owned or operated by the permittee but do not have storm drain inlets or discharge directly to surface water;
 - v. **Storm Drain Inlet Inspection:** The permittee shall inspect, at a minimum of once per year, all storm drain inlets that it owns or operates. Documentation of inspections shall include: inlet location, date visited, observations of the inlet's structural integrity, and if maintenance or repairs are required;

- vi. Storm Drain Inlet Cleaning: The permittee shall develop, update, and implement a storm drain inlet cleaning program. The program shall establish when a storm drain inlet must be cleaned and shall be implemented as frequently as necessary to ensure, at a minimum, that sediment, trash, or other debris is removed as necessary to control it from entering the waters of the State, to eliminate recurring problems and maintain proper function. This program shall be described in the written SPPP, as required in Part IV.A.2. (SPPP);
- vii. Catch Basin Inspection: The permittee shall inspect and document inspections of all catch basins that it owns or operates. At a minimum, permittees who own or operate less than 2,500 catch basins shall inspect those basins once per year. Permittees who own or operate 2,500 catch basins or more shall inspect a minimum of 20% of the total or 2,500 per year, whichever is greater, rotating the schedule in such a way that all catch basins are inspected at least once every five years on approximately the same frequency. Documentation of inspections shall include: catch basin location, date visited, observations of the catch basin's structural integrity, and if maintenance or repairs are required;
- viii. Catch Basin Cleaning: The permittee shall develop, update, and implement a catch basin cleaning program. The program shall establish when a catch basin must be cleaned, include procedures for cleaning, and shall be implemented as frequently as necessary to ensure, at a minimum, that sediment, trash, or other debris is removed as necessary to control it from entering the waters of the State, to eliminate recurring problems and maintain proper function. For guidance related to catch basin cleaning, refer to the EPA Catch Basin Technology Overview and Assessment in the Highway Agency Guidance document (https://www.nj.gov/dep/dwq/highway_guidance.htm). This program shall be described in the written SPPP, as required in Part IV.A.2. (SPPP).
- ix. Storm Drain Inlet Labeling: The permittee shall label all storm drain inlets for those drains that do not have permanent wording cast into the structure of the inlet, which are located at rest areas, service areas, maintenance facilities, and along streets with sidewalks. See the Highway Agency Guidance document (https://www.nj.gov/dep/dwq/highway_guidance.htm) for additional information;
- x. Storm Drain Inlet Label Maintenance: The permittee shall maintain the legibility of storm drain inlet labels and replace any labels that are missing or not legible. See the Highway Agency Guidance document (https://www.nj.gov/dep/dwq/highway_guidance.htm) for additional information;
- xi. Storm Drain Inlet Retrofit: The permittee shall retrofit existing storm drain inlets that are: (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. Storm drain inlet retrofits shall meet the standard in Attachment C (Design Standards for Storm Drain Inlets);
- xii. Herbicide Application Management: The permittee shall restrict the application of herbicides to prevent herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation, as follows: (1) The permittee shall not apply herbicides on or adjacent to storm drain inlets, or on steeply sloping ground; (2) The permittee shall only apply herbicides along curb lines, highway median barriers, and unobstructed shoulders that contain unwanted vegetation; and (3) The permittee shall only apply herbicides within a 2-foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow;

- xiii. **Excess De-icing Material Management:** The permittee shall remove, within 72 hours after the end of the storm event, conditions permitting, piles of excess salt and de-icing materials that have been deposited during spreading operations (e.g., piles resulting from accidental spillage or when spreading equipment is started or stopped) on all streets, ramps, and parking areas owned or operated by the permittee. Excess de-icing material removed from streets, ramps, and parking areas may be returned to storage or properly managed if unsuitable for reuse.
 - xiv. **Roadside Vegetative Waste Management:** The permittee shall ensure the proper pickup, handling, storage and disposal of wood waste and yard trimmings generated by the Highway Agency. Wood waste and yard trimmings shall be managed to minimize the impact of vegetative maintenance activities on stormwater discharge quality, and shall be prohibited from being blown or deposited into storm drain inlets and stormwater facilities; and
 - xv. **Refuse Containers and Dumpsters:** The permittee shall ensure that dumpsters (including tire) and other refuse containers that are outdoors or exposed to stormwater, are covered at all times. This serves to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers. This measure is not intended for permitted temporary demolition containers or containers that hold large bulky items (e.g., furniture, clean car parts, and other large items recovered from the roadway), provided they do not contain putrescible waste.
- c. **Maintenance Yards and Other Ancillary Operations:** The permittee shall implement the best management practices described in Attachment E (Best Management Practices for Maintenance Yards and Other Ancillary Operations) for maintenance yards and other ancillary operations owned or operated by the permittee. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites. Best Management Practices shall be implemented for the following activities, whenever such activities occur:
- i. Inventory of Material and Machinery;
 - ii. Inspections and Good Housekeeping;
 - iii. Fueling Operations;
 - iv. Discharge of Stormwater from Secondary Containment;
 - v. Vehicle Maintenance;
 - vi. On-Site Equipment and Vehicle Washing and Wash Wastewater Containment;
 - vii. Salt and De-icing Material Storage and Handling;
 - viii. Aggregate Material and Construction Debris Storage;
 - ix. Street Sweepings, Catch Basin Clean Out, and Other Material Storage; and
 - x. Yard Trimmings and Wood Waste Management.
- d. **Employee Training:** The permittee shall develop, update and implement an employee training program to address permit components and SPPP requirements. All Highway Agency employees shall receive training on those stormwater topics applicable to their title and duties within 3 months of commencement of duties. In addition, follow-up training shall occur as specified below:

- i. Maintenance Yard Operations (including Ancillary Operations) - the permittee shall provide training annually on inventory of materials and machinery, inspections and good housekeeping; fueling operations; discharge of stormwater from secondary containment; vehicle maintenance; on-site equipment and vehicle washing and wash wastewater containment; salt and de-icing material storage and handling; aggregate material and construction debris storage; street sweeping and catch basin clean out material storage; yard trimmings and wood waste management sites. See Part IV.B.5.c (Maintenance Yards and Other Ancillary Operations).
- ii. Stormwater Facility Maintenance – the permittee shall provide training annually on inventory and mapping of stormwater facilities, maintenance of inventoried stormwater facilities, catch basin and inlet cleaning methods, and herbicide application management. See Part IV.C.1 and 2 (Stormwater Facilities Map and Maintenance), Part IV.B.5.b.v-viii (Storm Drain Inlets and Catch Basins), and Part IV.B.5.b.xii (Herbicide Application Management).
- iii. The permittee shall provide general training annually on the Highway Agency’s SPPP, applicable recordkeeping requirements, and detailed training on any component applicable to an employee’s title and duties. See Part IV.A.2 (SPPP).
- iv. Street Sweeping - the permittee shall provide training once every two years on sweeping schedules and proper management of materials collected. See Part IV.B.5.b.ii-iv (Street Sweeping).
- v. Illicit Connection Elimination and Outfall Pipe Mapping - the permittee shall provide training once every two years on the impacts associated with illicit connections and details of the program including investigation techniques, physical observations, field sampling, and mapping procedures. See Part IV.B.6.a and c (Outfall Pipe Mapping, and Illicit Discharge) and the National Menu of Stormwater Best Management Practices at www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater.
- vi. Outfall Pipe Stream Scouring Detection and Control - the permittee shall provide training once every two years on how to identify outfall pipe stream scouring and contributing factors. See Part IV.B.6.b (Stream Scouring).
- vii. Waste Disposal Education - the permittee shall provide training once every two years on the impacts associated with improper waste disposal, how to respond to inquiries regarding improper waste disposal, and appropriate enforcement authority.
- viii. Regulatory Mechanisms - the permittee shall provide training once every two years on the regulatory mechanisms identified in Part IV.B.5.a, above. Training shall include an overview of the requirements, enforcement, and the repercussions of non-compliance.
- ix. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment - the permittee shall provide general training once every two years on the permitting requirements for construction activity and Post-Construction Stormwater Management in New Development and Redevelopment. See Part IV.B.3 Construction Site Runoff) and B.4 (Post Construction).
- x. Training may also be conducted on stormwater-related topics that serve an educational purpose for employees.
- xi. The location of records including sign in sheet(s), date(s) of training, and training agenda(s) shall be noted in the SPPP.

- e. Stormwater Management Design Review Training: The permittee shall ensure that all engineers, and other individuals that review the stormwater management design for development and redevelopment projects for the Highway Agency, complete the Department approved Stormwater Management Design Review Course (see <https://www.nj.gov/dep/stormwater/training.htm>) once every five years. Individuals that will review stormwater management design and have not completed this course within the past five years must attend the next scheduled course offering. If unable to attend, the permittee must notify the Department in writing no later than thirty days after the missed course explaining why attendance was not possible and what alternate arrangements are being made. Training obtained within five calendar years prior to EDPA qualifies towards this requirement. The permittee is required to maintain a list of the dates and names of training program participants.
- f. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules Pollution Prevention / Good Housekeeping specified in Attachment A (Measurable Goals and Implementation Schedule).

6. Minimum Standards for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control

- a. Outfall Pipe Mapping: The permittee shall develop, update and maintain an outfall pipe map showing the location of the end of all MS4 outfall pipes (in tidal and non-tidal receiving waters) owned or operated by the permittee which discharge to a surface water body. The outfall pipe map shall also:
 - i. Show the location and name of all surface water bodies receiving discharges from those outfall pipes;
 - ii. Be included in the SPPP (if providing access to map via a link, include URL address in SPPP);
 - iii. Be updated annually to include, at a minimum, the location of the end of any new or newly identified MS4 outfall pipes;
 - iv. Be provided to the Department on or before EDPA + 12 months; and
 - v. Be submitted electronically by December 21, 2020 via the Department's designated electronic submission service.
- b. Stream Scouring: The permittee shall develop, update and implement a program to detect, investigate and control any localized stream scouring from stormwater outfall pipes owned or operated by the permittee. This program shall be described in the written SPPP, as required in Part IV.A.2., above. See the Highway Agency Guidance document (https://www.nj.gov/dep/dwq/highway_guidance.htm) for additional information. The permittee shall, at a minimum:
 - i. Inspect and document inspections of each outfall pipe which discharges to a stream for localized stream scouring in the vicinity of the outfall pipe, at least once every five years, with a minimum of 20% of the total number of outfalls or 100 per year, whichever is greater;
 - ii. Inspect, within 30 days of identification, any outfall pipes newly identified per Part IV.B.6.a for localized stream scouring in the vicinity of the outfall pipe;
 - iii. When localized stream scouring is detected, identify sources of stormwater that contribute to the scouring from the outfall pipe within 3 months;

- iv. Each identified stormwater source shall be investigated;
 - v. Where identified sources are located on property owned or operated by the permittee, corrective action shall be taken by the permittee to reduce stormwater rate or volume when feasible;
 - vi. Prioritize, schedule and complete remediation of identified localized stream scouring and take action based upon the requirements of Part IV.B.6.b.iii, above. If not completed within 12 months, a schedule for completion shall be maintained as required in Part IV.C.3. (Stormwater Facilities Maintenance);
 - vii. All stream scouring restoration shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1), or, for New Jersey Department of Transportation (NJDOT) projects, the NJDOT Soil Erosion and Sediment Control Standards at N.J.A.C. 16:25A (e.g., Conduit Outlet Protection 4.18), and the requirements for bank stabilization and channel restoration found at N.J.A.C. 7:13 et seq.
 - viii. All associated maintenance or repairs to stormwater facilities shall be made in accordance with N.J.A.C. 7:8; and
 - ix. Document investigations and actions taken for localized stream scouring as necessary to demonstrate compliance with this requirement. Outfall inspections shall include: outfall location, date visited, and observations of the outfall's structural integrity and if maintenance or repairs need to take place.
- c. Illicit Discharge Detection and Elimination: The permittee shall develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program in accordance with this permit. This program shall be described in the written SPPP, as required in Part IV.A.2. (SPPP). See the Highway Agency Guidance document (https://www.nj.gov/dep/dwq/highway_guidance.htm) and the USEPA Guidance document (www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf) for additional information. The permittee shall, at a minimum:
- i. Conduct visual dry weather inspection of all outfall pipes owned or operated by the permittee at least once every five years, with a minimum of 20% of the total number of outfalls or 100 per year, whichever is greater to determine if dry weather flow (flow occurring 72 hours after a rain event) or other evidence of illicit discharge is present;
 - ii. Inspect, within 30 days of identification, any newly identified outfall pipes per Part IV.B.6.a to determine if dry weather flow or other evidence of illicit discharge is present;
 - iii. Investigate dry weather flows discovered during routine inspection and maintenance of other elements of the MS4;
 - iv. Investigate, within 30 days of receipt, complaints and reports of illicit connections, including those from operating entities of interconnected MS4s;
 - v. Investigate the source if evidence of illicit discharge is found;
 - vi. Eliminate, within one year of discovery, non-stormwater discharges that are traced to their source and found to be illicit connections; and
 - vii. Document investigations and actions taken using the Department's Illicit Connection Inspection Report Form. See <https://www.nj.gov/dep/dwq/highway.htm>;

- d. The permittee shall adopt and enforce an appropriate regulatory mechanism that prohibits illicit connections to the small MS4 owned or operated by the permittee. See the Highway Agency Guidance document https://www.nj.gov/dep/dwq/highway_guidance.htm).
- e. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A (Measurable Goals and Implementation Schedule).

C. Other Control Measures

1. Minimum Standards for Stormwater Facilities Mapping

- a. The permittee shall develop, update and maintain a Stormwater Facilities Map, which shall include, but is not limited to, the following stormwater facilities that are owned or operated by the permittee:
 - i. Storm drain inlets constructed after EDPA;
 - ii. Stormwater management basins;
 - iii. Subsurface infiltration/detention systems;
 - iv. Manufactured treatment devices (MTDs); and
 - v. Green infrastructure.
- b. The Stormwater Facilities Map shall:
 - i. Show property boundaries of the Highway Agency maintenance yard(s), ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee;
 - ii. Include the type of each stormwater facility;
 - iii. Be updated annually to include, at a minimum, the location of any new or newly identified stormwater facilities;
 - iv. Be populated and maintained in an electronic format provided by the Department;
 - v. Be provided to the Department on or before EDPA + 36 months; and
 - vi. New data points subsequently added to the map shall be provided to the Department annually thereafter as an attachment to the MSRP Annual Report and Certification.
- c. The permittee may combine this map with the MS4 Outfall Pipe Map specified at Part IV.B.6.a (Outfall Pipe Mapping).
- d. The permittee may use the Department's Mapping Application to assist with this requirement. See https://www.nj.gov/dep/dwq/msrp_map_aid.htm.
- e. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Mapping specified in Attachment A (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Stormwater Facilities Maintenance

- a. The permittee shall develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all permittee owned or operated stormwater facilities.
- b. Stormwater facility maintenance must be performed pursuant to any maintenance plans, or more frequently as needed, to ensure the proper function and operation of the stormwater facility. See https://www.nj.gov/dep/stormwater/maintenance_guidance.htm.
- c. The permittee shall maintain a log sufficient to demonstrate compliance with this section; which shall include, but is not limited to the following information:
 - i. stormwater facility inspected;
 - ii. location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates);
 - iii. name of inspector;
 - iv. date of inspection;
 - v. findings; and
 - vi. any preventative and corrective maintenance performed.
- d. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at https://www.nj.gov/dep/stormwater/maintenance_guidance.htm.
- e. The permittee shall certify annually in the MSRP Annual Report that permittee owned or operated stormwater facilities are functioning properly.
- f. If stormwater facilities are found not to be functioning properly, necessary preventive and corrective maintenance shall be taken, which shall be documented and prioritized, and a schedule for such repairs shall be maintained. The permittee shall prioritize this schedule based upon the following:
 - i. environmental, health and safety concerns;
 - ii. the findings of catch basin and storm drain inlet inspections performed pursuant to Part IV.B.5.b.v and vii. (Storm Drain Inlet and Catch Basin Inspections), above;
 - iii. the findings of stream scouring inspections performed pursuant Part IV.B.6.b (Stream Scouring), above; and
 - iv. the findings pursuant to Part IV.C.4 (TMDL Information), below.
- g. The permittee shall maintain copies of all maintenance plans, as defined in Notes and Definitions Part IV.B.1.g (Maintenance Plan) of this permit, for stormwater facilities.
- h. The permittee shall make copies of these maintenance plans available to the Department upon request.
- i. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A (Measurable Goals and Implementation Schedule).

3. Minimum Standards for Total Maximum Daily Load (TMDL) Information

- a. The permittee shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering all: maintenance yards; rest areas; service area properties; and new "major development" projects as defined by the permittee's stormwater program. This information may be accessed at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>. The permittee shall use this TMDL information to, at a minimum:
 - i. Assist in the selection and design of stormwater BMPs for "major development" projects, and the prioritization of stormwater facility maintenance, including schedules for repairs required at Part IV.B.6.b.vi. (Stream Scouring) and IV.C.3. (Stormwater Facilities Maintenance), above; and
 - ii. Identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see "Total Maximum Daily Load (TMDL) Guidance" found at <https://www.nj.gov/dep/dwq/msrp-tmdl-rh.htm>).
- b. The permittee shall annually update its SPPP to list information identified in a. above.
- c. The permittee shall incorporate any strategies identified in a. above as an Optional Measure. See Part IV.E (Optional Measures), below, and Part IV.A.2.c (SPPP), above.
- d. The permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A (Measurable Goals and Implementation Schedule).

D. Additional Measures

1. Incorporation of Additional Measures

- a. Additional Measures are non-numeric (e.g., BMPs) or numeric effluent limitations that are expressly required to be included in a permittees stormwater program by a TMDL; a regional stormwater management plan; other elements of an adopted areawide Water Quality Management Plan; or the adopted Statewide Water Quality Management Plan.
- b. The Department will provide written notice of the adoption of any Additional Measure(s) to any affected permittee. The Department will incorporate each adopted Additional Measure in a modification to this permit. For any required Additional Measure(s) other than numeric effluent limitations, the required Additional Measure(s) will specify the BMPs that shall be implemented and the measurable goals. Such BMPs shall be identified in the SPPP as Additional Measure(s). The required Additional Measure(s) will also specify the implementation schedule.

E. Optional Measures

1. Incorporation of Optional Measures

- a. Optional Measures are BMPs, developed by the permittee, that extend beyond the requirements of this permit and that prevent or reduce pollution to waters of the State.
- b. The permittee may, at its own discretion, incorporate Optional Measures into its MS4 stormwater program. Such BMPs shall be identified in the SPPP as Optional Measures.

- c. Failure to implement an Optional Measure identified in the SPPP shall not be considered a violation of the NJPDES permit.

F. Recordkeeping

1. Standard Recordkeeping Requirements

- a. The permittee shall retain copies of the MSRP Annual Report and Certification as well as any records required to be kept by this permit for a period of at least 5 years and be made available to the Department upon request.

G. Annual Report and Certification

1. Reporting Requirements

- a. The permittee shall complete an MSRP Annual Report, including the Major Development Project List (Attachment D) and any Supplemental Questions, using the electronic format provided by the Department via the MSRP Annual Report service accessed through the Regulatory Services Portal (<https://www.njdeponline.com>).
- b. The MSRP Annual Report shall summarize the status of compliance with the conditions of this permit. Specifically, this includes compliance with the permittee's Stormwater Management Program (Part IV.A), Statewide Basic Requirements (Part IV.B), Other Control Measures (Part IV.C), Additional Measures (Part IV.D), Optional Measures (Part IV.E) Recordkeeping (Part IV.F), and any other permit conditions listed on the MSRP Annual Report form, including Supplemental Questions for the subject year between January 1 and December 31.
- c. The Stormwater Program Coordinator, or duly authorized representative pursuant to N.J.A.C. 7:14A-4.9(a)4. shall certify, sign and date the Annual Report.
- d. Submit an Annual Report and Certification: on or before May 1st annually. The permittee shall submit the Annual Report and Certification to the Department through the Regulatory Services Portal (instructions at <https://www.nj.gov/dep/dwq/highway.htm>).
- e. A copy of each Annual Report and Certification shall be made available to the Department for inspection.

NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST, Trenton

Permit No.NJ0141887
DST160006 Stormwater Discharge Master General Permit
Renewal

Attachment A – Measurable Goals and Implementation Schedule

General

The following table specifies the Measurable Goals and Implementation Schedule of this Highway Agency MS4 NJPDES Permit. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

An indication of whether the cited Minimum Standard is a new requirement is provided in the last column. Where a requirement is not new and not modified (and for some that are modified), the permittee is expected to be in compliance on the Effective Date of Permit Authorization (EDPA). For most new requirements (and for some modified requirements), additional time is provided for achieving compliance.

See below for specific Measurable Goals that shall be documented in the SPPP. **The permittee shall develop, update, implement, and maintain a written SPPP as required by Part IV.A.1.c., above.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the permittee's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.A.2 above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map);
- Include inspection and maintenance schedules, as appropriate; and
- Maintain required records.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Stormwater Management Program), Part IV.D (Additional Measures), IV.E (Optional Measures), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit					
Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Public Involvement and Participation Including Public Notice					
Provide for public notice, as applicable, under the Open Public Meetings Act and statutory procedures for enactment of ordinances or other regulatory mechanisms when providing for public participation in the development and implementation of a stormwater program. Maintain records necessary to demonstrate compliance.	IV.B.1.a & c	Certify in each annual report that all applicable public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated records.	EDPA	EDPA	Modified
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA	EDPA + 12 months	No
Post the current SPPP on the permittee's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the permittee's website (to the extent required by Part IV.A.2.f) and that the posted SPPP is current.	EDPA + 90 days	EDPA + 12 months	Yes
Post all regulatory mechanisms on the permittee's website.	IV.B.1.b.iii	Certify in each annual report that regulatory mechanisms have been posted on the permittee's website and that the posted documents are current.	EDPA + 90 days	EDPA + 12 months	Yes
Local Public Education and Outreach					
Permittees that operate rest areas and/or service areas shall implement a program focusing on activities to involve the public in reducing stormwater pollutants.	IV.B.2.a	Certify in each annual report that the permittee has developed and is implementing a Local Public Education and Outreach Program.	EDPA	EDPA+12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Permittees that operate rest areas and/or service areas shall conduct activities that total at least 5 points as set forth in Attachment B (Points System for Public Education and Outreach Activities) of this permit. Keep records to demonstrate compliance with this requirement.	IV.B.2.a.i and ii	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Keep records to demonstrate compliance with this requirement.	EDPA+12 months	EDPA+12 months	New
Permittees not identified in IV.B.2.a shall satisfy the educational requirements through the implementation of an employee training program pursuant to IV.B.5.d.	IV.B.2.b	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA+12 months	No
Post Construction Stormwater Management in New Development and Redevelopment					
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a-j	Certify in each annual report that the permittee has developed and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA	No
Complete, update, maintain and submit the Major Development Project List (Attachment D), which shall include information for each new development or redevelopment project that is regulated by the permit.	IV.B.4.h	Submit in each annual report the Major Development Project List (Attachment D). Records demonstrating compliance with Part IV.B.4 shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Pollution Prevention/Good Housekeeping Regulatory Mechanisms					
Pet Waste Control: Adopt and enforce an appropriate regulatory mechanism that requires pet owners or their keepers to immediately & properly dispose of their pet's solid waste deposited on any part of the permittee's property.	IV.B.5.a.i	Certify in each annual report the date the regulatory mechanism was adopted and that it is being enforced. A log of enforcement actions and information distribution dates shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No
Wildlife Feeding Control: Adopt and enforce an appropriate regulatory mechanism that prohibits wildlife feeding.	IV.B.5.a.ii	Certify in each annual report the date the regulatory mechanism was adopted and that it is being enforced. A log of enforcement actions shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No
Litter Control: Enforce the existing State litter statute at N.J.S.A 13:1 E-99.3 or adopt and enforce a regulatory mechanism that is at least as stringent as the State litter statute.	IV.B.5.a.iii	Certify in each annual report the date the regulatory mechanism was adopted and that it is being enforced. A log of enforcement actions shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No
Improper Disposal of Waste: Adopt and enforce an appropriate regulatory mechanism prohibiting improper disposal of waste.	IV.B.5.a.iv	Certify in each annual report the date the regulatory mechanism was adopted and that it is being enforced. A log of enforcement actions shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No
Pollution Prevention/Good Housekeeping Control Measures					
Litter Pick-Up Program: Develop and implement a program that includes roadside clean-up of trash/debris and regular collection of refuse from litter and recycling receptacles on permittee property. Maintain records of clean-ups and estimates of total trash/debris collected.	IV.B.5.b.i.	Certify in each annual report that a litter pick-up program is being maintained, the estimated number of days each year pick-ups were performed, and the estimated amount of materials collected. Records demonstrating compliance shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Quarterly Street Sweeping: Develop and implement a program to sweep all segments of limited-access highways (including ramps and parking areas) <u>with storm drain inlets</u> or discharge directly to surface water.	IV.B.5.b.ii	Certify in each annual report that the quarterly sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified
Triannual Street Sweeping: Develop and implement a program to sweep all segments of streets and parking areas that are not limited-access highways but <u>have storm drain inlets</u> or discharge directly to surface water.	IV.B.5.b.iii	Certify in each annual report that the triannual sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified
Annual Street Sweeping: Develop and implement a program to sweep all streets, ramps, and parking areas that <u>do not have storm drain inlets</u> or discharge directly to surface water.	IV.B.5.b.iv	Certify in each annual report that the annual sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Storm Drain Inlet Inspection: Develop and continue to implement storm drain inlet inspections as specified in Part IV.B.5.b.v.	IV.B.5.b.v	Certify in each annual report that the storm drain inlet inspection schedule is being maintained, that a log is being maintained indicating the number of permittee-owned or operated inlets within the permittee's property, and indicate the number of inlets inspected. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified
Storm Drain Inlet Cleaning: Develop, update, and implement a storm drain inlet cleaning program as specified in Part IV.B.5.b.vi.	IV.B.5.b.vi	Certify in each annual report that a storm drain inlet cleaning program is being implemented, and that a log indicating the number of permittee-owned or operated inlets cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities for the calendar year and reference the location of those records in the SPPP. Include the totals in the Annual Report.	EDPA	EDPA + 12 months	Modified
Catch Basin Inspection: Develop and continue to implement catch basin inspections as specified in Part IV.B.5.b.vii.	IV.B.5.b.vii	Certify in each annual report that the catch basin inspection schedule is being maintained, that a log is being maintained indicating the number of permittee-owned or operated catch basins within the permittee's property, and indicate the number of catch basins inspected. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Catch Basin Cleaning: Develop, update, and implement a catch basin cleaning program as specified in Part IV.B.5.b.viii.	IV.B.5.b.viii	Certify in each annual report that a catch basin cleaning program is being implemented, and that a log indicating the number of permittee-owned or operated catch basins cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities for the calendar year and reference the location of those records in the SPPP. Include the totals in the Annual Report.	EDPA	EDPA + 12 months	Modified
Storm Drain Inlet Labeling: Label all drains that do not have permanent wording cast into the structure of the inlet, which are located at rest areas, service areas, maintenance facilities, and along streets with sidewalks.	IV.B.5.b.ix	Certify in each annual report that storm drains have been properly labeled. Records tracking storm drain inlet label status shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA	No
Storm Drain Inlet Label Maintenance: Maintain the legibility of storm drain inlet labels and replace labels that are missing or not legible.	IV.B.5.b.x	Certify in each annual report that storm drains have been properly maintained. Records tracking storm drain inlet label status shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA	No
Storm Drain Inlet Retrofit: Retrofit existing storm drain inlets as specified at Part IV.B.5.b.xi.	IV.B.5.b.xi	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Herbicide Application Management: Implement proper herbicide application management which prevents herbicides from being washed by stormwater into the waters of the State and prevents erosion caused by de-vegetation.	IV.B.5.b.xii	Certify in each annual report that proper herbicide application management is being conducted.	EDPA	EDPA	Yes
Excess De-icing Material Management: Remove piles of excess salt and de-icing materials that have been deposited during spreading operations within 72 hours after the end of each storm event.	IV.B.5.b.xiii	Certify in each annual report that proper excess de-icing material management is being conducted.	EDPA	EDPA	Yes
Roadside Vegetative Waste Management: Implement proper management of wood waste and yard trimmings generated by the Highway Agency.	IV.B.5.b.xiv	Certify in each annual report that proper pick-up, handling, storage and disposal of wood waste and yard trimmings generated by the Highway Agency has been conducted. Records demonstrating compliance shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA	No
Refuse Containers and Dumpsters: Implement the proper use of refuse containers and dumpsters.	IV.B.5.b.xv	Certify in each annual report that appropriate dumpsters and other refuse containers that are outdoors or exposed to stormwater, are covered at all times.	EDPA	EDPA	Modified
Pollution Prevention/Good Housekeeping – Part IV.B.5.c Maintenance Yards and Other Ancillary Operations					
Maintenance Yards and Other Ancillary Operations: Implement the BMPs detailed in permit Attachment E for maintenance yards and other ancillary operations owned or operated by the Highway Agency.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements of Attachment E and that the requirements have been met. Keep separate, yard-specific SPPP forms for each site where applicable. Maintain required yard-specific records and note their location in the SPPP.	EDPA	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
BMPs shall be implemented for the inventory of materials and machinery.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for the inventory of materials and machinery.	EDPA	EDPA+ 12 months	No
BMPs shall be implemented for inspections and good housekeeping.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for inspections and good housekeeping.	EDPA	EDPA+ 12 months	No
BMPs shall be implemented for fueling operations.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA	EDPA + 12 months	No
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA	EDPA + 12 months	No
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA	EDPA + 12 months	No
BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA	EDPA + 12 months	Modified
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA	EDPA + 12 months	Modified
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 12 months	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 12 months	EDPA + 12 months	Yes
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.x	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 12 months	EDPA + 12 months	Yes
Pollution Prevention/Good Housekeeping – Part IV.B.5.d Employee Training					
Provide training to Highway Agency employees on stormwater topics applicable to their title within 3 months of commencement of duties. Follow-up training shall occur as specified in IV.B.5.d.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). The location of these records shall be referenced in the SPPP.	EDPA + 12 months	EDPA + 12 months	Modified
Ensure that individuals who review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the Highway Agency complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training and maintain a list of the names and dates that individuals received training. The location of this list shall be referenced in the SPPP.	EDPA + 12 months	EDPA + 12 months	Yes
MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control					
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all MS4 outfall pipes which discharge to a surface water body.	IV.B.6.a	Certify in each annual report that the permittee has developed and maintained an MS4 Outfall Pipe Map which includes at a minimum, the requirements identified in Part IV.B.6.a.	EDPA	EDPA + 12 months	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Show the location and name of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.i	Certify in each annual report that the surface water bodies associated with the end of each outfall pipe is located on the map.	EDPA	EDPA + 12 months	No
Include Outfall Pipe map or link to access an electronic version of the map in the SPPP	IV.B.6.a.ii	Certify in each annual report following the implementation deadline that an up-to-date Outfall Pipe Map is referenced or included in the SPPP.	EDPA +12 months	EDPA + 12 months	Yes
Update Outfall Pipe Map annually with any new or newly identified MS4 outfall pipes.	IV.B.6.a.iii	Certify in each annual report that the Outfall Pipe Map is current at the end of the calendar year and include at a minimum, the location of the end of any new or newly identified MS4 outfall pipes.	EDPA	EDPA + 12 months	No
Submit the Outfall Pipe Map to the Department on or before the set implementation schedule.	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA +12 months	EDPA + 12 months	Yes
Submit the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020	12/21/2020 or EDPA + 12 months, whichever is later.	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes as specified in Part IV.B.6.	IV.B.6.b	Certify in each annual report that outfall pipes owned or operated by the permittee have received the required visual inspection at least once every five years (with a minimum of 20% of the total number of outfalls or 100 per year, whichever is greater), and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Records demonstrating compliance with Part IV.B.6.b.i-ix shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program as specified in Part IV.B.6.c.	IV.B.6.c	Certify in each annual report that the permittee has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years (with a minimum of 20% of the total number of outfalls or 100 per year, whichever is greater). Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Records demonstrating compliance with Part IV.B.6.c.i-vii shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Adopt and enforce an appropriate regulatory mechanism that prohibits illicit connections to the small MS4 owned or operated by the permittee at the Highway Agency.	IV.B.6.d	Certify in each annual report the date the regulatory mechanism was adopted and that it is being enforced. A log of enforcement actions shall be kept and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	No
Stormwater Facilities Mapping					
Develop, update and maintain a map of all stormwater facilities owned or operated by the permittee at the Highway Agency.	IV.C.1.a	Certify in each annual report that the permittee has developed, updated, and maintained an inventory of stormwater facilities owned or operated by the permittee at the Highway Agency. Records required by Part IV.C.1.a.i-v shall be kept, and their location shall be referenced in the SPPP.	EDPA+36 months	EDPA+ 36 months	New
Map must include property boundaries of all maintenance yards, ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee.	IV.C.1.b.i	Certify in each annual report that the permittee has developed, updated, and maintained a map of all maintenance yards, ancillary operations, rest areas, and service areas as well as an annotated map of roadways and thoroughfares owned or operated by the permittee.	EDPA+36 months	EDPA+36 months	New
Map must include the type of stormwater facility.	IV.C.1.b.ii	Certify in each annual report that the permittee has included the type of stormwater facility.	EDPA +36 months	EDPA+36 months	New

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Map must be updated annually to include, at a minimum, the location of any new or newly identified stormwater facilities.	IV.C.1.b.iii	Certify in each annual report that the permittee has included the location of any new or newly identified stormwater facilities.	EDPA + 36 Months	EDPA + 36 months	New
Map must be populated and maintained in an electronic format provided by the Department.	IV.C.1.b.iv	Certify in each annual report that the permittee has populated and maintained a map in an electronic format provided by the Department.	EDPA+36 months	EDPA+36 months	New
New data points subsequently added to the map shall be provided to the Department annually thereafter as an attachment to the MSRP Annual Report and Certification.	IV.C.1.b.vi	Certify in each subsequent annual report that new stormwater facilities have been added to inventory.	Annually after EDPA+36 months	Annually after EDPA+36 months	New
Stormwater Facilities Maintenance					
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the permittee.	IV.C.2.a	Certify in each annual report that the permittee has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the permittee. Records required by Part IV.C.2.a-c, shall be kept, and their location shall be referenced in the SPPP.	EDPA	EDPA + 12 months	Modified
Stormwater facility maintenance must be performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and maintenance of the stormwater facility.	IV.C.2.b	Certify in each annual report that inspections and maintenance were performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Maintain a log sufficient to demonstrate compliance with this permit requirement.	IV.C.2.c	Certify in each annual report that, at a minimum, a maintenance log is kept that records the name & type of the stormwater facility inspected, the location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g., geographic coordinates), the name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA	EDPA + 12 months	Modified
Certify annually if the stormwater facilities owned or operated by the permittee are functioning properly.	IV.C.2.e	Certify in each annual report if all stormwater facilities owned or operated by the permittee are functioning properly.	EDPA	EDPA + 12 months	No
Preventative and corrective maintenance shall be taken to repair stormwater facilities that are not functioning properly. Prioritization schedule shall be documented and developed based on measures specified in Part IV.C.2.f.	IV.C.2.f	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists based on Part IV.C.2.f. i-iv for stormwater facilities that are not functioning properly.	EDPA	EDPA+12 months	Modified
Copies of all maintenance plans shall be kept for stormwater facilities approved by the permittee and shall be available to the Department upon request.	IV.C.2.g & h	Certify in each annual report that copies of all maintenance plans (as defined in Notes and Definitions Part IV.B.1.g), for stormwater facilities are kept on file, and their location shall be referenced in the SPPP.	EDPA	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	Permit Cite	Measurable Goal (See Part IV for specific permit requirements)	Implementation Schedule		New Requirement?
			Existing Permittee	New Permittee	
Total Maximum Daily Load (TMDL) Info.					
Annually review approved or adopted TMDL reports to identify if the TMDL addresses any segment of surface water wholly or partially within or bordering all: maintenance yards; rest areas; service area properties; and new "major development" projects as defined by the permittee's stormwater program.	IV.C.3.a	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed. Records required by Part IV.C.3.a.i, a.ii, and b shall be kept, and their location shall be referenced in the SPPP.	EDPA + 12 months	EDPA + 12 months	Yes
Use TMDL information identified in compliance with Part IV.C.3.a to identify and develop strategies to address specific stormwater sources of those pollutants addressed in the TMDL.	IV.C.3.a.i	Certify in each annual report that the permittee has used information identified in compliance with Part IV.C.3.a to assist in identifying and developing strategies to address specific stormwater sources of those pollutants addressed in the TMDL.	EDPA + 12 months	EDPA + 12 months	Yes
Use TMDL information identified in compliance with Part IV.C.3.a to Assist in the selection and design of stormwater BMPs for "major development" projects, and the prioritization of stormwater facility maintenance, including schedules for repairs related to Stormwater Facilities' Maintenance, and the Stream Scouring and Illicit Discharge Detection & Elimination programs.	IV.C.3.a.ii	Certify in each annual report that the permittee has used information identified in compliance with Part IV.C.3.a to assist in the prioritization of activities as required at Part IV.B.6. (Stream Scouring & Illicit Discharge Detection & Elimination) and IV.C.3.f (Stormwater Facilities Maintenance)	EDPA+12 months	EDPA+12 months	Yes
Update SPPP to list information identified in Part IV.C.3.a.	IV.C.3.a.b	Certify in each annual report that the permittee has updated its SPPP to list information identified in Part IV.C.3.a.	EDPA + 12 months	EDPA + 12 months	Yes
Incorporate any strategies identified in Part VI.C.3.a.ii(2) as an Optional Measure	IV.C.3.a.c	Certify in each annual report that the permittee has incorporated any strategies identified in Part VI.C.3.a.ii(2) as an Optional Measure.	EDPA + 12 months	EDPA + 12 months	Yes

Attachment B – Points System for Public Education and Outreach Activities

Permittees who own and operate rest areas and/or service areas shall describe how they will educate users and employees of the Highway Agency to satisfy this minimum standard. The Public Education and Outreach Program is intended to focus on educational and pollution prevention activities that educate about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater runoff and mitigating flow.

The permittee shall select activities from the list below, totaling a minimum of 5 (five) points each year:

Activity	Description	Points
Website and Social Media	Maintain a stormwater related page on the permittee’s website or on permittee’s social media site. The web page may include links to other stormwater related resources, including the NJDEP stormwater website (www.njstormwater.org) as well as the Stormwater Pollution Prevention Plan.	1
Newspaper Ad	Use Department created and approved stormwater education materials available on www.cleanwaternj.org to publish an ad in a newspaper or newsletter that serves the permittee.	1
Radio/Television	Broadcast a radio or television public service announcement from www.cleanwaternj.org on a local radio or public service channel.	1
Green Infrastructure and Stormwater Facility Signage	Post signs at green infrastructure sites, stormwater management basins or other structural stormwater-related facilities at the rest/service area that describe the function and importance of the infrastructure, contact phone number, permittee identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*
Billboard/Sign	Produce and maintain (for credit in subsequent years) a billboard or sign which can be displayed at the rest/service areas.	2
Mural	Produce and maintain (for credit in subsequent years) the planning and painting of a stormwater pollution themed mural, storm drain art or other artwork at rest/service areas.	2
Stormwater Display	Present a stormwater related display or materials at rest/service areas.	1
Pet Waste Bags	Provide pet waste bags at rest/service areas.	2

Permittees may request approval from the NJDEP Bureau of Nonpoint Pollution Control to earn points for alternate activities.

Attachment C - Design Standards for Storm Drain Inlets

Application of Design Standard

The below design standard applies to the following types of storm drain inlet installation or retrofit projects unless a more stringent standard is specified by the permittee in an adopted regulatory mechanism:

- Storm drain inlets installed as part of new development and redevelopment that disturb one acre or more;
- Storm drain inlets installed as part of new development and redevelopment that disturb less than one acre that are part of a larger common plan of development or sale (e.g. phased development project) that ultimately disturbs one acre or more;
- Permittee owned or operated storm drain inlets must be retrofitted where the storm drains are (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities.

Design Standard

Grates in pavement or other ground surfaces shall meet either of the following standards:

- The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (see www.nj.gov/transportation/publicat/pdf/BikeComp/introtofac.pdf); or
- A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is not greater than 0.5 inches across the smallest dimension. Note that the Residential Site Improvement Standards at N.J.A.C. 5:21 include requirements for bicycle safe grates.

Examples of grates subject to this standard include grates in grate inlets; the grate portion (non-curb opening portion) of combination inlets; grates on storm sewer manholes; ditch grates; trench grates; and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads, (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body.

For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

Exemptions from the Design Standard

- Where each individual clear space in the curb opening in existing curb-opening inlets does not have an area of more than nine (9.0) square inches;
- Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;
- Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or

A bar screen having a bar spacing of 0.5 inches;

Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- Where flows are conveyed through a trash rack that has parallel bars with one inch (1”) spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8; or
- Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

Attachment E – Best Management Practices for Maintenance Yards and Other Ancillary Operations

The permittee shall implement the following practices at maintenance yards and other ancillary operations owned or operated by the permittee. Inventory of Materials and Machinery, and Inspections and Good Housekeeping shall be conducted at all maintenance yards and other ancillary operations. All other Best Management Practices shall be conducted whenever activities described below occur. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites.

Inventory of Materials and Machinery

The SPPP shall include separate forms listing the physical address, materials, machinery, and activities of each maintenance yard and ancillary operation where they could be a source of pollutants in a stormwater discharge. The materials in question include but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the maintenance yard operations and ancillary operations. Materials or machinery that are not exposed to stormwater at the maintenance yard or related to its operations do not need to be included.

Inspections and Good Housekeeping

1. Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Identify conditions that would contribute to stormwater contamination, illicit discharges or negative impacts to the permittee's MS4. Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at Maintenance Yards and Other Ancillary Operations. This log must contain, at a minimum, a record of inspections of all operations listed in Part IV.B.5.c. of this permit including dates and times of the inspections, and the name of the person conducting the inspection and relevant findings. This log must be kept on-site, and its location referenced in the SPPP and made available to the Department upon request. See the Highway Agency Guidance document at https://www.nj.gov/dep/dwq/highway_guidance.htm for additional information.
2. Conduct cleanups of spills of liquids or dry materials immediately after discovery. All spills shall be cleaned using dry cleaning methods only. Clean up spills with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and sweep the rest of the area. Dispose of collected waste properly. Store clean-up materials, spill kits and drip pans near all liquid transfer areas, protected from rainfall.
3. Properly label all containers. Labels shall be legible, clean and visible. Keep containers in good condition, protected from damage and spillage, and tightly closed when not in use. When practical, store containers indoors. If indoor storage is not practical, containers may be stored outside if covered and placed on spill platforms or clean pallets. An area that is graded and/or contained by berms to prevent run-through of stormwater may be used in place of spill platforms or clean pallets. Outdoor storage locations shall be regularly maintained.

Fueling Operations

1. Establish, maintain and implement standard operating procedures to address vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.
 - a. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.
 - b. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel shall be within the temporarily contained by berms or boomed area during the loading/unloading of bulk fuels. A trained employee shall be present to supervise the bulk transfer of fuel.
 - c. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment. Include the following:
 - “Topping off vehicles, mobile fuel tanks, and storage tanks is strictly prohibited”
 - “Stay in view of fueling nozzle during dispensing”
 - Contact information for the person(s) responsible for spill response.
 - d. Immediately repair or replace any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair.

Discharge of Stormwater from Secondary Containment

The discharge pipe/outfall from a secondary containment area (e.g., fuel storage, de-icing solution storage, brine solution) shall have a valve and the valve shall remain closed except as described below. The permittee may discharge stormwater accumulated in a secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not been in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the permittee shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the permittee cannot determine with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Vehicle Maintenance

1. Operate and maintain equipment to prevent the exposure of pollutants to stormwater.
2. Whenever possible, conduct vehicle and equipment maintenance activities indoors. Floor drain discharge locations shall be identified in the SPPP.
3. For projects that must be conducted outdoors, and that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on, and drip pans shall be used. Use designated areas away from storm drains or block storm drain inlets when vehicle and equipment maintenance is being conducted outdoors.

On-Site Equipment and Vehicle Washing and Wash Wastewater Containment

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to surface or ground waters of the State.
2. Permittee's which cannot discharge wash wastewater to a sanitary sewer or which cannot otherwise comply with 1, above, may temporarily contain wash wastewater prior to proper disposal under the following conditions:
 - a. Containment structures shall not leak. Any underground tanks and associated piping shall be tested for integrity every 3 years using appropriate methods determined by "*The List of Leak Detection Evaluations for Storage Tank Systems*" created by the National Work Group on Leak Detection Evaluations (NWGLDE) or as determined appropriate and certified by a professional engineer for the site-specific containment structure(s).
 - b. For any containment system protected by cathode, provide a passing cathodic protection survey every three years.
 - c. Operate containment structures to prevent overflowing resulting from normal or abnormal operations, overflowing, malfunctions of equipment, and human error. Overfill prevention shall include manual sticking/gauging of the tank before each use unless system design prevents such measurement. Tank shall no longer accept wash wastewater when determined to be at 95% capacity. Record each measurement to the nearest ½ inch.
 - d. Before each use, perform inspections of all visible portions of containment structures to ensure that they are structurally sound, and to detect deterioration of the wash pad, catch basin, sump, tank, piping, risers, walls, floors, joints, seams, pumps and pipe connections or other containment devices. The wash pad, catch basin, sump and associated drains shall be kept free of debris before each use. Log dates of inspection; inspector's name, and conditions. This inspection is not required if system design prevents such inspection.
 - e. Containment structures shall be emptied and taken out of service immediately upon detection of a leak. Complete all necessary repairs to ensure structural integrity prior to placing the containment structure back into service. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline (1-877-927-6337) followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed.
 - f. All equipment and vehicle wash wastewater placed into storage must be disposed of in a legally permitted manner (e.g., pumped out and delivered to a duly permitted and/or approved wastewater treatment facility).
 - g. Maintain a log of equipment and vehicle wash wastewater containment structure clean-outs including date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See Underground Vehicle Wash Water Storage Tank Use Log at end of this attachment.
 - h. Containment structures shall be inspected annually by a NJ licensed professional engineer. The engineer shall certify the condition of all structures including: wash pad, catch basin, sump, tank, piping, risers to detect deterioration in the, walls, floors, joints, seams, pumps and

pipe connections or other containment devices using the attached Engineer's Certification of Annual Inspection of Equipment and Vehicle Wash Wastewater Containment Structure. This certification may be waived for self-contained systems on a case-by-case basis. Any such waiver would be issued in writing by the Department.

3. Maintain all logs, inspection records, and certifications on-site. Such records shall be made available to the Department upon request.

Salt and De-icing Material Storage and Handling

1. Store material in a permanent structure.
2. Perform regular inspections and maintenance of storage structure and surrounding area.
3. Minimize tracking of material from loading and unloading operations.
4. During loading and unloading:
 - a. Conduct during dry weather, if possible;
 - b. Prevent and/or minimize spillage; and
 - c. Minimize loader travel distance between storage area and spreading vehicle.
5. Sweep (or clean using other dry-cleaning methods):
 - a. Storage areas on a regular basis;
 - b. Material tracked away from storage areas;
 - c. Immediately after loading and unloading is complete.
6. Reuse or properly discard materials collected during cleanup.
7. Temporary outdoor storage is permitted only under the following conditions:
 - a. A permanent structure is under construction, repair or replacement;
 - b. Stormwater run-on and de-icing material run-off is minimized;
 - c. Materials in temporary storage are tarped when not in use;
 - d. The requirements of 2 through 6, above are met; and
 - e. Temporary outdoor storage shall not exceed 30 days unless otherwise approved in writing by the Department;
8. Sand must be stored in accordance with Aggregate Material and Construction Debris Storage below.

Aggregate Material and Construction Debris Storage

1. Store materials such as sand, gravel, stone, top soil, road millings, waste concrete, asphalt, brick, block and asphalt-based roofing scrap and processed aggregate in such a manner as to minimize stormwater run-on and aggregate run-off via surface grading, dikes and/or berms (which may include sand bags, hay bales and curbing, among others) or three-sided storage bays. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading.
2. Sand, top soil, road millings and processed aggregate may only be stored outside and uncovered if in compliance with item 1 above and a 50-foot setback is maintained from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels.
3. Road millings must be managed in conformance with the “Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance” (see www.nj.gov/dep/dshw/rrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.
4. Cold patch shall be stored in a permanent structure or on an impervious surface and covered with a waterproof material (i.e., tarpaulin or 10-mil plastic sheeting) that is contained (e.g., contained by berms) to control leachate and stormwater run-on or run through.
5. The stockpiling of materials and construction of storage bays on certain land (including but not limited to coastal areas, wetlands and floodplains) may be subject to regulation by the Division of Land Use Regulation (see www.nj.gov/dep/landuse/ for more information).

Street Sweepings, Catch Basin Clean Out, and Other Material Storage

1. For the purposes of this permit, this BMP is intended for road cleanup materials as well as other similar materials. Road cleanup materials may include but are not limited to street sweepings, storm sewer clean out materials, stormwater basin clean out materials and other similar materials that may be collected during road cleanup operations. These BMPs do not include materials such as liquids, wastes which are removed from sanitary sewer systems or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G-1.1 et seq.
2. Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1 et seq. See the “Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials” (www.nj.gov/dep/dshw/rrtp/sweeping.htm).
3. Road cleanup materials placed into temporary storage must be, at a minimum:
 - a. Stored in leak-proof containers or on an impervious surface and covered with a waterproof material (i.e., tarpaulin or 10-mil plastic sheeting) that is contained (e.g., contained by berms) to control leachate and stormwater run-on or run through; and
 - b. Removed for disposal (in accordance with 2, above) within six (6) months of placement into storage.

Yard Trimmings and Wood Waste Management Sites

1. These practices are applicable to any yard trimmings or wood waste management site:
 - a. Owned and operated by the permittee;
 - i. For staging, storing, composting or otherwise managing yard trimmings, or
 - ii. For staging, storing or otherwise managing wood waste, and
 - b. Operated in compliance with the Recycling Rules found at N.J.A.C. 7:26A.
2. Yard trimmings or wood waste management sites must be operated in a manner that:
 - a. Diverts stormwater away from yard trimmings and wood waste management operations;
 - b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater;
 - c. Eliminates the discharge of stormwater that contacts source material from yard trimmings or wood waste management sites to storm sewer inlets or surface waters of the State.
3. Yard trimmings and wood waste management site specific practices:
 - a. Construct windrows, staging and storage piles:
 - i. In such a manner that materials contained in the windrows, staging and storage piles (processed and unprocessed) do not enter waterways of the State;
 - ii. On ground which is not susceptible to seasonal flooding;
 - iii. In such a manner that prevents stormwater run-on and leachate run-off (e.g., use of covered areas, diversion swales, ditches or other designs to divert stormwater from contacting yard trimmings and wood waste).
 - b. Maintain perimeter controls such as curbs, berms, hay bales, silt fences, jersey barriers or setbacks, to eliminate the discharge of stormwater runoff carrying leachate or litter from the site to storm sewer inlets or to surface waters of the State.
 - c. Prevent on-site storm drain inlets from siltation using controls such as hay bales, silt fences, or filter fabric inlet protection.
 - d. Dry weather run-off that reaches a stormwater sewer system is an illicit discharge. Possible sources of dry weather run-off include wetting of piles by the site operator; uncontrolled pile leachate or uncontrolled leachate from other materials stored at the site.
 - e. Remove trash from yard trimmings and wood waste upon receipt.
 - f. Monitor site for trash on a routine basis.
 - g. Store trash in leak-proof containers or on an impervious surface that is contained (e.g., contained by berms) to control leachate and litter;
 - h. Dispose of collected trash at a permitted solid waste facility.
 - i. Employ preventative tracking measures, such as gravel, quarry blend, or rumble strips at exits.

**ENGINEERS CERTIFICATION OF ANNUAL INSPECTION OF EQUIPMENT
AND VEHICLE WASH WASTEWATER CONTAINMENT STRUCTURE
(Complete a separate form for each vehicle wash wastewater containment structure)**

Permittee: _____ NJPDES Permit No: _____

Containment Structure Location: _____

The annual inspection of the above referenced vehicle wash wastewater containment structure was conducted on _____ (date). The containment structure and appurtenances have been inspected for:

1. The integrity of the structure including walls, floors, joints, seams, pumps and pipe connections
2. Leakage from the structure's piping, vacuum hose connections, etc.
2. Bursting potential of tank.
3. Transfer equipment
4. Venting
5. Overflow, spill control and maintenance.
6. Corrosion, splits, and perforations to tank, piping and vacuum hoses

The tank and appurtenances have been inspected for all of the above and have been determined to be:

Acceptable _____

Unacceptable _____

Conditionally Acceptable _____

List necessary repairs and other conditions: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (N.J.A.C. 7:14A-2.4(d)).

Name (print): _____ Seal: _____

Signature: _____

Date: _____

Underground Vehicle Wash Water Storage Tank Use Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Location _____

Tank Volume _____ gallons

Tank Height _____ inches

95% Volume _____ gallons

95% Volume _____ inches

<u>Date and Time</u>	<u>Inspector</u>	<u>Height of Product Before Introducing Liquid (inches)</u>	<u>Is Tank Less Than 95% Full? (Y/N)</u>	<u>Visual Inspection Pass? (Y/N)</u>	<u>Comments</u>

Notes: The volume of liquid in the tank shall be measured **before** each use.

Liquid **shall not be introduced** if the tank contains liquid at 95% of the capacity or greater.

A visual inspection of all exposed portions of the collection system shall be performed before each use. Use the comments column to document the inspection and any repairs.

Underground Vehicle Wash Water Storage Tank Pump Out Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____

Tank Location _____

Tank Volume _____ gallons

<u>Date and Time of Pump Out</u>	<u>Volume of Liquid Removed</u>	<u>Waste Hauler *</u>	<u>Destination of the Liquid Disposal *</u>

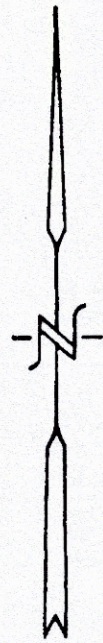
*** The Permittee must maintain copies of all hauling and disposal records and make them available for inspection**

APPENDIX B

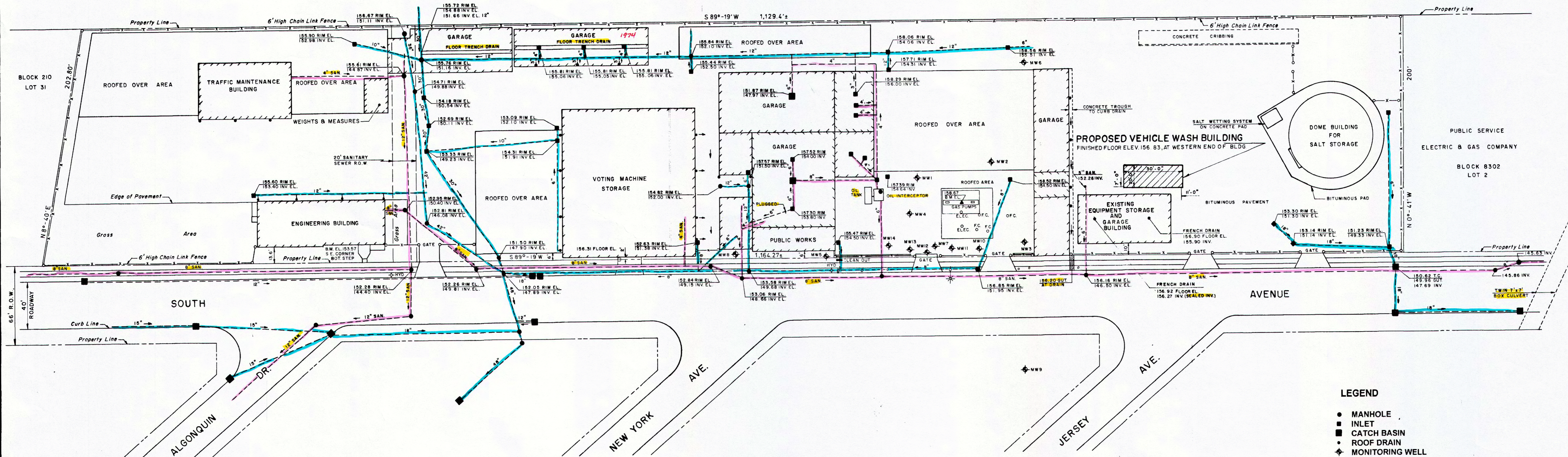
HIGHWAY

COMPLEX

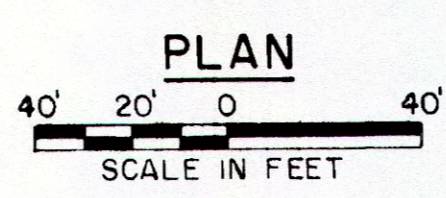
LOCATIONS



NEW JERSEY TRANSIT RARITAN LINE



- LEGEND**
- MANHOLE
 - INLET
 - CATCH BASIN
 - ◆ ROOF DRAIN
 - ◆ MONITORING WELL



REVISION	BY	CKD	DATE
PROPOSED VEHICLE WASH BUILDING PUBLIC WORKS COMPLEX			
TOWNSHIP OF SCOTCH PLAINS		UNION COUNTY, NJ	
SITE PLAN			
DIVISION OF ENGINEERING COUNTY OF UNION, NJ			
G. BRUCE CONNOR, P.E. DIRECTOR OF ENGINEERING		COUNTY ENGINEER NJ LIC No. 25058	
<i>G. Bruce Connor</i>		DATE: <i>11/10/06</i>	
		SHEET NO. 01 OF 07	

LDS UC 13445

10-381

Union County High Complex Locations

1. Galloping Hill Yard (Golf & DPW) – 21 North 31st Street, Kenilworth NJ
2. Ashbrook Yard (Gold & DPW) – 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)
3. Warinanco Park Yard – 114 Acme Street, Elizabeth NJ
4. Echo Lake Park Yard – Park Drive, Echo Lake Park, Mountainside NJ
5. Cedar Brook Park Yard – Mathewson Drive, Cedar Brook Park, Plainfield NJ
6. Houdaille Quarry – 301 Shunpike Road, Springfield, NJ
7. Scotch Plains Yard – 2371 South Avenue, Scotch Plains, NJ
8. Oak Ridge Park Yard – 136 Oak Ridge Avenue, Clark, NJ
9. Rahway River Park Yard – Parkway Drive, Rahway, NJ
10. Watchung Stables – 1160 Summit Lane, Mountainside, NJ
11. Public Safety Complex – 300 North Avenue, Westfield, NJ
- ~~12. Cherry Street Garage – 101 Rahway Avenue, Elizabeth, NJ (Recently Demolished/Vacant Property)~~
- ~~13. Runnells Hospital – 40 Watchung Way, Berkeley Heights, NJ (Sold/No longer County Property)~~

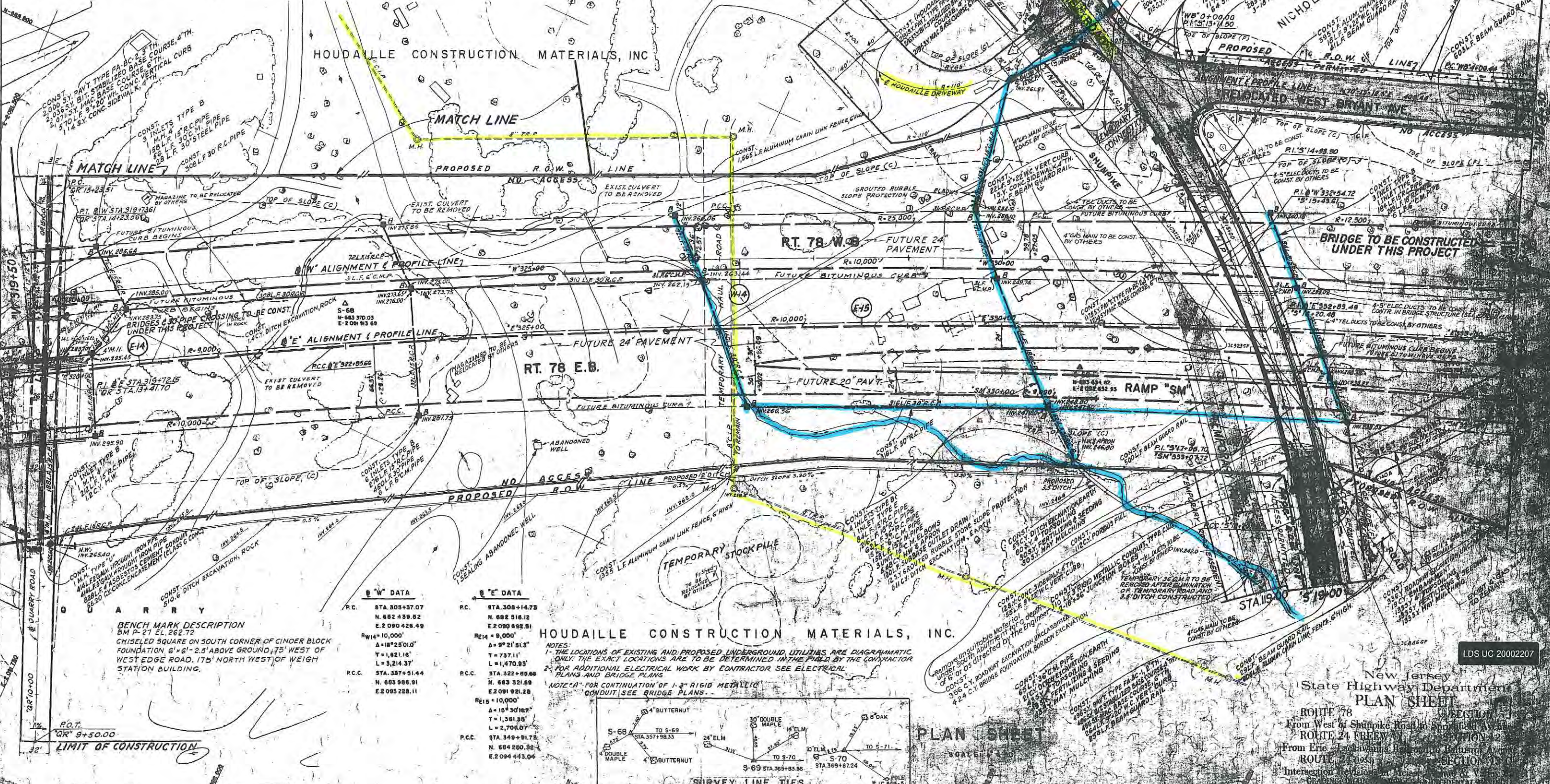
The combination of above locations summarize to a total of 20 total locations noted as:

- 1) Nine (9) rest areas
- 2) Four (4) Maintenance & fueling areas
- 3) Three (3) Maintenance, fueling and rest areas
- 4) Two (2) Maintenance areas
- 5) One (1) Fueling area
- 6) One (1) Maintenance and rest areas

TO BE CONSTRUCTED

- Pavement Type FA-BC-1, 2" Thick
- Pavement Type FA-BC-2, 3" Thick
- Bituminous Stabilized Base Course, 4" Thick
- Macadam Base Course, 6" Thick
- Prime Coat
- Subbase
- Porous Fill
- Roadway Excavation, Unclassified
- Embankment
- Ditch Excavation, Earth
- Ditch Excavation, Rock
- Topsoiling
- Fertilizing & Seeding
- Mulching
- Inlets, Type B (2'-8" Heads, 15'-10" Heads)
- Inlets, Type E
- Mannholes
- Mannholes, Type U
- 15" Reinforced Concrete Culvert Pipe
- 18" Reinforced Concrete Culvert Pipe
- 30" Reinforced Concrete Culvert Pipe
- 36" Reinforced Concrete Culvert Pipe

- 4,136 Sq.Yd.
- 5,320 Sq.Yd.
- 6,204 Sq.Yd.
- 1,637 Sq.Yd.
- 2,408 Cu.Yd.
- 1,636 Cu.Yd.
- 112 Cu.Yd.
- 501 Cu.Yd.
- 92 Cu.Yd.
- 685 Cu.Yd.
- 512 Cu.Yd.
- 705 Sq.Yd.
- 705 Sq.Yd.
- 17 Unit
- 2 Unit
- 2 Unit
- 1 Unit
- 914 Lin.Ft.
- 434 Lin.Ft.
- 1074 Lin.Ft.
- 62 Lin.Ft.
- 6" Corrugated Metal Pipe
- 15" Corrugated Metal Culvert Pipe
- 30" Corrugated Metal Culvert Pipe
- 36" Corrugated Metal Culvert Pipe
- 30" Steel Pipe
- 15" Corrugated Metal Elbows
- Subbase Outlet Drain
- Mannholes, Inlets and Catch Basins, Additional Depth
- Class C Concrete (Headwalls & Aprons, Encasements, etc.)
- Grouted Rubble Stone Slope Protection
- Sealing Abandoned Wells
- 3" x 20" White Concrete Vertical Curb
- 3" x 22" White Concrete Vertical Curb
- Concrete Sidewalk, 4" Thick
- Beam Guard Rail
- Bridge Foundation, Borrow Excavation
- Aluminum Chain Link Fence, 6 High
- 6" Galvanized Wrought Iron Pipe
- 3" Galvanized Wrought Iron Pipe
- 4" Asbestos Cement Conduit
- 3" Rigid Metallic Conduit, Type C.U.G.
- 18" x 36" Junction Box
- 27 Lin.Ft.
- 156 Lin.Ft.
- 56 Lin.Ft.
- 65 Lin.Ft.
- 23 Lin.Ft.
- 3 Unit
- 120 Lin.Ft.
- 10,361 Lin.Ft.
- 72,88 Cu.Yd.
- 12 Sq.Yd.
- 1 Lin.Ft.
- 2,454 Lin.Ft.
- 55 Lin.Ft.
- 191 Sq.Yd.
- 1,468 Lin.Ft.
- 424 Cu.Yd.
- 3,520 Lin.Ft.
- 414 Lin.Ft.
- 414 Lin.Ft.
- 286 Lin.Ft.
- 310 Lin.Ft.
- 8 Unit



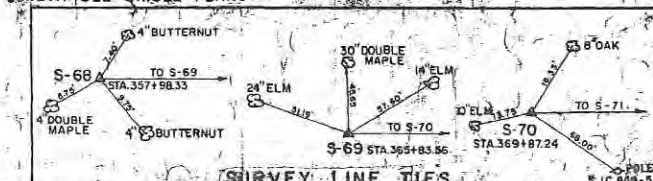
QUARRY

BENCH MARK DESCRIPTION
 BM P-27 EL. 262.72
 CHISELED SQUARE ON SOUTH CORNER OF CINDER BLOCK FOUNDATION 6' x 6'-2.5' ABOVE GROUND, 75' WEST OF WEST EDGE ROAD, 175' NORTH WEST OF WEIGH STATION BUILDING.

R.W. DATA		R.E. DATA	
P.C.	STA. 305+37.07	P.C.	STA. 308+14.73
	N. 682 439.52		N. 682 516.12
	E. 2090 426.49		E. 2090 492.51
R.W.14 = 10,000'		R.E.14 = 9,000'	
	A = 18°25'01"		A = 9°21'31"
	T = 1,821.18'		T = 737.11'
	L = 3,214.37'		L = 1,470.93'
P.C.C.	STA. 327+09.66	P.C.C.	STA. 322+09.66
	N. 683 988.91		N. 683 321.88
	E. 2095 228.11		E. 2091 921.28
R.W.15 = 10,000'		R.E.15 = 10,000'	
	A = 10°30'18"		A = 10°30'18"
	T = 1,361.35'		T = 1,361.35'
	L = 2,704.07'		L = 2,704.07'
P.C.C.	STA. 349+01.73	P.C.C.	STA. 349+01.73
	N. 684 200.32		N. 684 200.32
	E. 2094 443.04		E. 2094 443.04

HOUDAILLE CONSTRUCTION MATERIALS, INC.

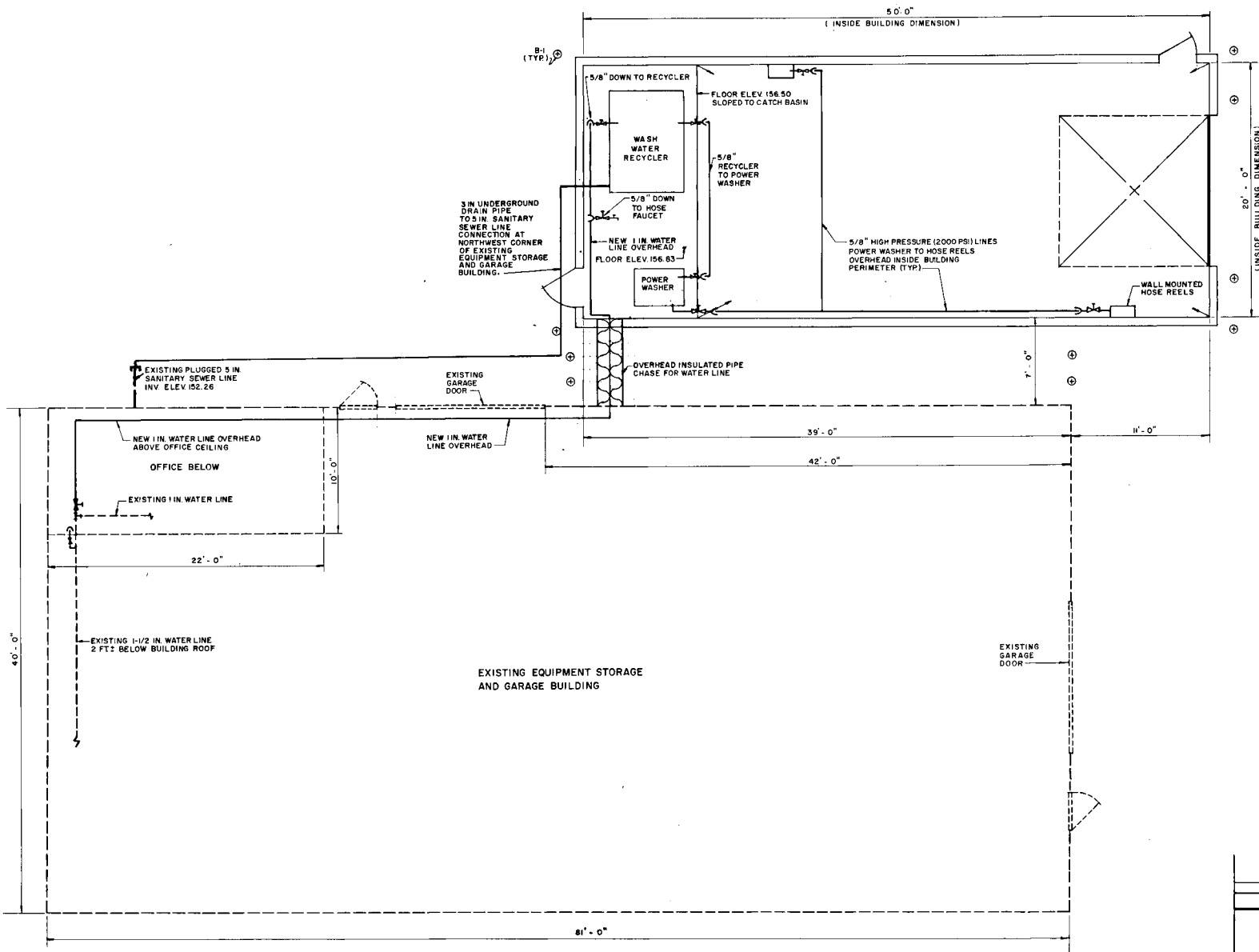
NOTES:
 1- THE LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES ARE DIAGRAMMATIC ONLY. THE EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
 2- FOR ADDITIONAL ELECTRICAL WORK BY CONTRACTOR SEE ELECTRICAL PLANS AND BRIDGE PLANS.
 NOTE "A" FOR CONTINUATION OF 1-3" RIGID METALLIC CONDUIT (SEE BRIDGE PLANS).



PLAN SHEET

New Jersey
 State Highway Department
PLAN SHEET
 ROUTE 78
 From West of Shunpike Road to Springfield Avenue
 ROUTE 24 FREEWAY
 From Erie - East Lawrence Road to Eastman Road
 ROUTE 24 FREEWAY
 SECTION 1
 INTERSECTION OF ROUTE 78 AND ROUTE 24 FREEWAY
 GRADE SEPARATION

LDS UC 20002207



REVISION	BY	CK'D	DATE
PROPOSED VEHICLE WASH BUILDING PUBLIC WORKS COMPLEX			
TOWNSHIP OF SCOTCH PLAINS		COUNTY OF UNION, NJ	
WATER LINES			
DIVISION OF ENGINEERING			
COUNTY OF UNION, NJ			
G. BRUCE CONNOR, P.E.		COUNTY ENGINEER	
DIVISION OF ENGINEERING		NJ LIC. NO. 25058	
<i>G. Bruce Connor</i>		DATE 4/10/01	
LDS UC 13449			SHEET NO 05 OF 07

**APPENDIX C
ROADWAY
JURISDICTION
MAP**

2018 JURISDICTION REVIEW UNION COUNTY

Hudson County

Essex County

Morris County

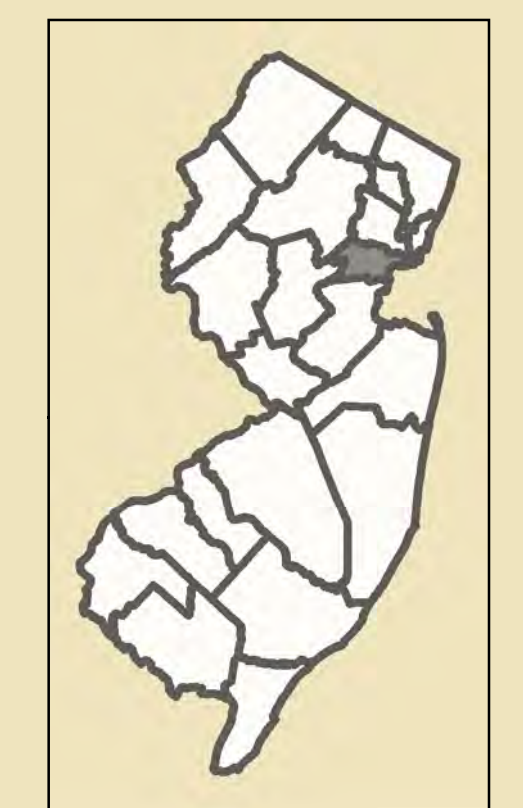
Legend

- US Route - County Jurisdiction
- State Route - County Jurisdiction
- County 500 - State Jurisdiction
- County 500 - County Jurisdiction
- County 500 - Municipal Jurisdiction
- County 600 - County Jurisdiction
- County 600 - Not County Jurisdiction
- Local - County Jurisdiction
- Other Routes

Somerset County

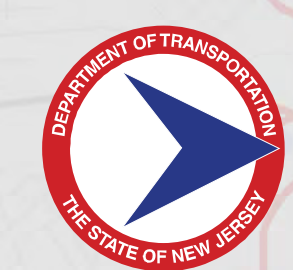
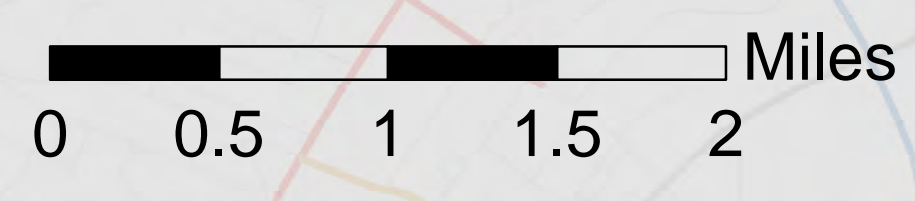
Hudson County

State of New York



LOCATOR MAP

Middlesex County



STATE OF
NEW JERSEY

COMPUTER GENERATED BY THE

NEW JERSEY DEPARTMENT OF TRANSPORTATION
DIVISION OF PLANNING, MULTIMODAL AND GRANT ADMINISTRATION
BUREAU OF TRANSPORTATION DATA AND SAFETY

Raritan Bay

APPENDIX D

CATCH

BASINS

Assets

Map Filter

Measure Select

Add layer +

- All Storm Basins 5105
- All Signs 4470

Add Condition +

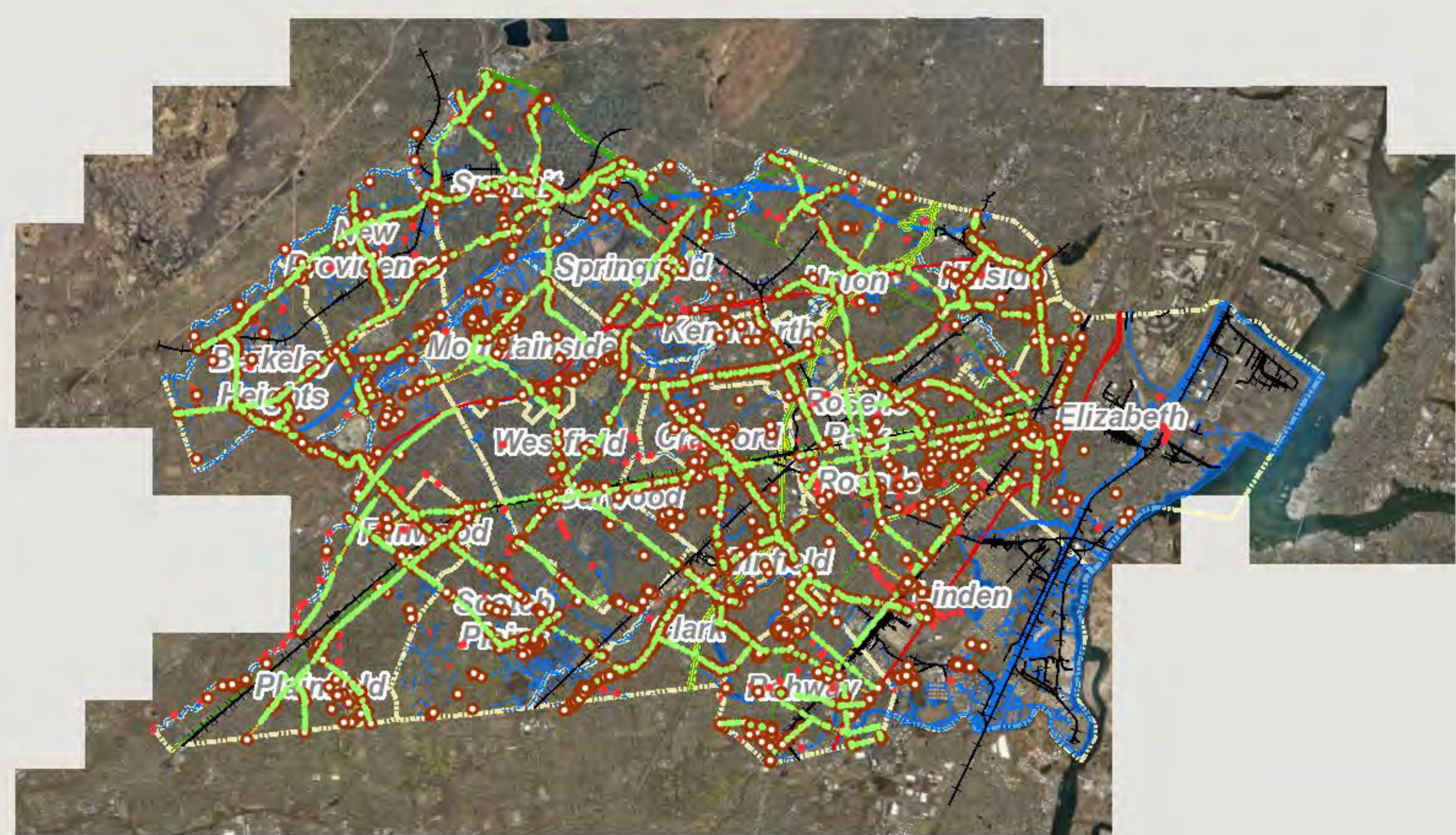
- County Maintained

Is:

Like this layer? SAVE LAYER

+
-

County Aerials



Engineering, Public Works & Facilities Management

Basin Cleaning Schedule

- **BE** – Berkeley Heights
- **CL** – Clark
- **CR** – Cranford
- **EL** – Elizabeth
- **FA** – Fanwood
- **GA** – Garwood
- **HI** – Hillside
- **KE** – Kenilworth
- **LI** – Linden
- **MO** – Mountainside
- **NE** -New Providence
- **PL** – Plainfield
- **RA** -Rahway
- **RO** – Roselle
- **RP** – Roselle Park
- **SC**– Scotch Plains
- **SP** – Springfield
- **SU** – Summit
- **UN** – Union
- **WE** – Westfield
- **WI** – Winfield Park



January						
S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	12	13	14	15	16	17
	19	20	21	22	23	24
	26	27	28	29	30	31

HI
RO/WI
BE
KE/RP
CL

April						
S	M	T	W	T	F	S
			1	2	3	4
	5	6	7	8	9	10
	12	13	14	15	16	17
	19	20	21	22	23	24
	26	27	28	29	30	

FA
PL
UN
GA/RA
WE

February						
S	M	T	W	T	F	S
						1
	2	3	4	5	6	7
	9	10	11	12	13	14
	16	17	18	19	20	21
	23	24	25	26	27	28
						29

CL
LI
SC
CR
MO

May						
S	M	T	W	T	F	S
					1	2
	3	4	5	6	7	8
	10	11	12	13	14	15
	17	18	19	20	21	22
	24	25	26	27	28	29
	31					

HI
RO/WI
BE
KE/RP
CL

March						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

MO
SP
EL
NE
SU
FA

June						
S	M	T	W	T	F	S
	1	2	3	4	5	6
	7	8	9	10	11	12
	14	15	16	17	18	19
	21	22	23	24	25	26
	28	29	30			

CL
LI
SC
CR
MO

<https://ucnj.org/wp-content/uploads/2019/05/Jan-June-2020.png>

July							
	S	M	T	W	T	F	S
SP				1	2	3	4
EL	5	6	7	8	9	10	11
NE	12	13	14	15	16	17	18
SU	19	20	21	22	23	24	25
FA	26	27	28	29	30	31	

October							
	S	M	T	W	T	F	S
CL					1	2	3
LI	4	5	6	7	8	9	10
SC	11	12	13	14	15	16	17
CR	18	19	20	21	22	23	24
MO	25	26	27	28	29	30	31

August							
	S	M	T	W	T	F	S
FA							1
PL	2	3	4	5	6	7	8
UN	9	10	11	12	13	14	15
GA/RA	16	17	18	19	20	21	22
WE	23	24	25	26	27	28	29
	30	31					

November							
	S	M	T	W	T	F	S
MO	1	2	3	4	5	6	7
SP	8	9	10	11	12	13	14
EL	15	16	17	18	19	20	21
NE	22	23	24	25	26	27	28
SU	29	30					

September							
	S	M	T	W	T	F	S
			1	2	3	4	5
HI	6	7	8	9	10	11	12
RO/WI	13	14	15	16	17	18	19
BE	20	21	22	23	24	25	26
KE/RP	27	28	29	30			

December							
	S	M	T	W	T	F	S
			1	2	3	4	5
FA	6	7	8	9	10	11	12
UN	13	14	15	16	17	18	19
GA/RA	20	21	22	23	24	25	26
WE	27	28	29	30	31		
HI							

<https://ucnj.org/wp-content/uploads/2019/05/June-Dec-2020.png>

Up ↑

APPENDIX E

OUTFALLS

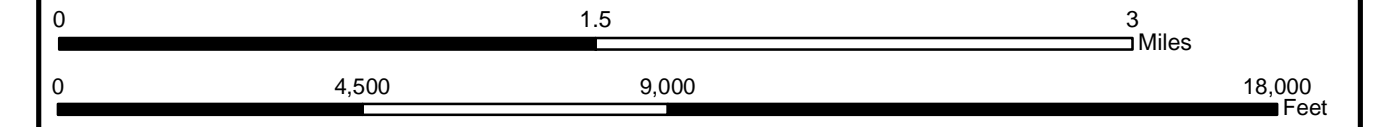


Union County Outfalls NEW JERSEY

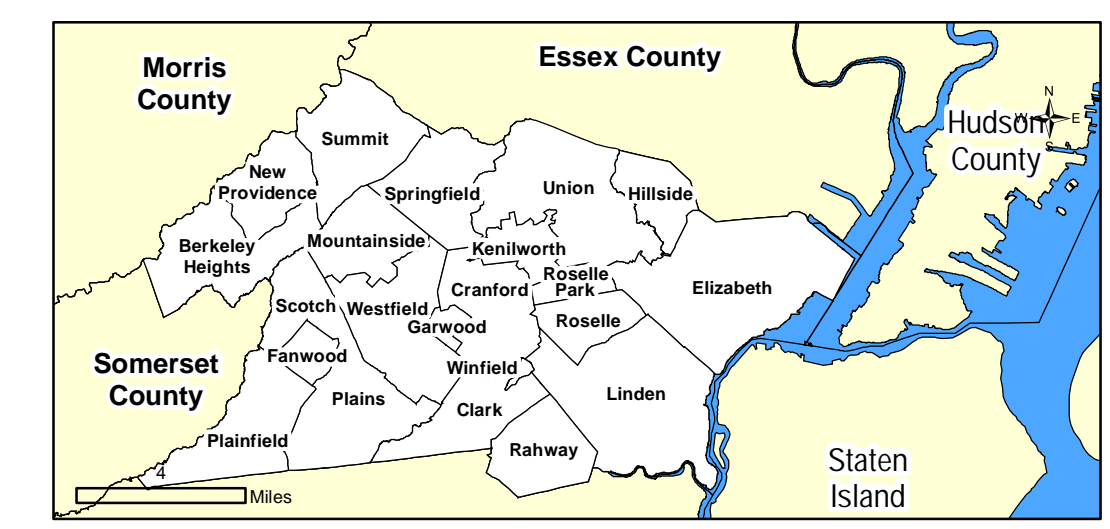
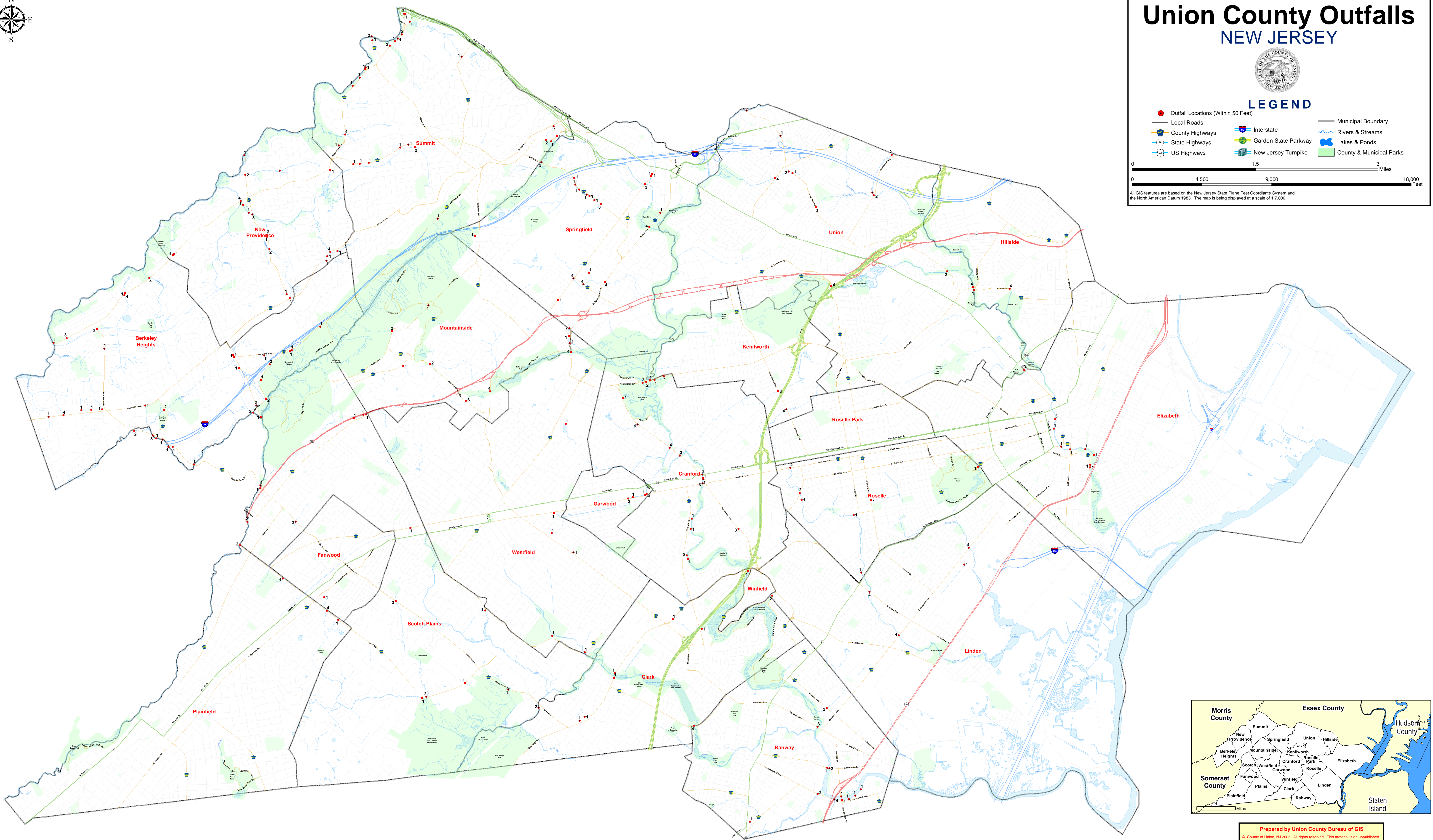


LEGEND

- Outfall Locations (Within 50 Feet)
- Local Roads
- County Highways
- State Highways
- US Highways
- Interstate
- Garden State Parkway
- New Jersey Turnpike
- Municipal Boundary
- Rivers & Streams
- Lakes & Ponds
- County & Municipal Parks



All GIS features are based on the New Jersey State Plane Feet Coordinate System and the North American Datum 1983. The map is being displayed at a scale of 1:7,200.



Prepared by Union County Bureau of GIS
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© County of Union, New Jersey 2020
 Department of Public Works
 Division of Engineering
 Bureau of GIS
 Map No. 020302

Union County Outfall Data

February 3, 2020

367 Outfalls

ID	ROAD	MUNICIPALITY	WATERBODY	LOCATION	OUTFALL SIZE	PIPE MATERIAL	NOTES	Visible	Accessible	Under Road	OLD_ID	BRIDGE_ID	BR.CG_ID	X	Y	Sheet Num
2001002A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd near McMane Ave	18						Be002A	Be2	2001002	517106.00	517106.00	65
2001003A	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Park Ave	15							Be3		508325.00	508325.00	67
2001003B	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Park Ave			Size Unknown					Be3		508327.00	508327.00	67
2001004A	Plainfield Ave.	Berkeley Heights	3-58	Plainfield Ave @ Harwood Ave			Size Unknown	No			Be004A	Be4		508797.00	508797.00	67
2001008A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave over Green Brook	18					Yes	Be008A	Be8	2001008	510728.00	510728.00	67
2001008B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave over Green Brook	15					Yes	Be008B	Be8	2001008	510715.00	510715.00	67
2001011A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave near Valley Rd	16	RCP		No			Be011A	Be11		518908.00	518908.00	61
2001013A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511908.00	511908.00	67
2001013B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511926.00	511926.00	67
2001013C	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Horseshoe Rd	15	RCCP				Yes		Be13		511932.00	511932.00	67
2001014A	Valley Rd.	Berkeley Heights	14-14	Valley Rd near Twin Falls Rd.	15							Be14		518376.00	518376.00	61
2001014B	Valley Rd.	Berkeley Heights	14-14	Valley Rd near Twin Falls Rd.	15							Be14		518420.00	518420.00	61
2001016A	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016A	Be16	2001016	511676.00	511676.00	13
2001016B	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016B	Be16	2001016	511703.00	511703.00	13
2001016C	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016C	Be16	2001016	511726.00	511726.00	13
2001016D	Springfield Ave.	Berkeley Heights	3- 54	Springfield Ave near Robbins Ave	15						Be016D	Be16	2001016	511732.00	511732.00	13
2001017A	Springfield Ave.	Berkeley Heights	3	Springfield Ave over Passaic River	18		West of Bridge				Be017xA	Be17	2001017	505518.00	505518.00	13
2001019A	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	24						Be019A	Be19	2001019	510074.00	510074.00	13
2001019B	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019B	Be19	2001019	510099.00	510099.00	13
2001019C	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019C	Be19	2001019	510088.00	510088.00	13
2001019D	Springfield Ave.	Berkeley Heights	3-55	Springfield Ave near Kuntz Ave	15						Be019D	Be19	2001019	510110.00	510110.00	13
2001023A	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	12							Be23		506354.00	506354.00	13
2001023B	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	12							Be23		506378.00	506378.00	13
2001023C	Springfield Ave.	Berkeley Heights	3-58	Springfield Ave near Passaic St	15							Be23		506378.00	506378.00	13
2001024A	Mountainside Ave.	Berkeley Heights	3-61	Mountain Ave near Yale St	30		Size Unknown	No			Be024A	Be24		507314.00	507314.00	63
2001025A	Mountainside Ave.	Berkeley Heights	3-61-1	Mountain Ave near Inwood Dr	30		Size Unknown	No			Be025A	Be25		507954.00	507954.00	63
2001026A	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506157.00	506157.00	63
2001026B	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506172.00	506172.00	63
2001026C	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	18							Be26		506161.00	506161.00	63
2001026D	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Sherbrook Dr	24							Be26		506174.00	506174.00	63
2001037A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave 400' West of Cataract Hollow Rd	16	RCP	outfall location may not be correct	No	No		Be037A	Be37		522733.00	522733.00	61
2001039A	Mountainside Ave.	Berkeley Heights	3-60	Mountain Ave @ Deep Dale Dr	36		Size Unknown	No			Be039A	Be39		508658.00	508658.00	63
2001040A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd near McMane Ave	15	RCP		No			Be040A	Be40		517493.00	517493.00	65
2001044A	Kuntz Ave.	Berkeley Heights	3-55	Kuntz Ave near Springfield Ave	18		Adjacent Outfall is Municipality's Responsibility				Be044A	Be44	2001044	510132.00	510132.00	13
2001051A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave 400: North of Valley Rd	15						Be051A	Be51	2001051	514575.00	514575.00	67
2001056A	Valley Road	Berkeley Heights	14-14-8-1	Valley Rd at Glenside Ave	15	RCP		No		Yes	Be056A	Be56	2001056	519221.00	519221.00	61
2001056B	Valley Road	Berkeley Heights	14-14-8-1	Valley Rd at Glenside Ave	15	RCP		No		Yes	Be056A	Be56	2001056	519226.00	519226.00	61
2001057A	Diamond Hill Rd.	Berkeley Heights	14-14-9	Diamond Hill Rd near Valley Rd	27	RCP		No			Be057B	Be57		518590.00	518590.00	61
2001057B	Diamond Hill Rd.	Berkeley Heights	14-14-9	Diamond Hill Rd near Valley Rd	27	RCP		No			Be057B	Be57		518633.00	518633.00	61
2001058A	Horseshoe Rd.	Berkeley Heights	14-14-11	Horse Shoe Rd near Watchung Way	15	RCP			Yes	No	Be058A	Be58	2001058	512654.00	512654.00	66
2001058B	Horseshoe Rd.	Berkeley Heights	14-14-11	Horse Shoe Rd near Watchung Way	15	RCP			Yes	No	Be058B	Be58	2001058	512658.00	512658.00	66
2001060A	Glenside Ave 2000' NE Valley	Berkeley Heights	14-14	Glenside Ave 2000' Northeast of Valley Rd	16	RCP	sw of #60	No			Be060A	Be60	2001060	519465.00	519465.00	61
2001061A	Glenside Ave	Berkeley Heights	14-14-7	Glenside Ave 1500' West McMane Ave	15							Be61		520778.00	520778.00	61
2001062A	Glenside Ave 900' NE McMane	Berkeley Heights	14-14	Glenside Ave 900' West McMane Ave	16			No			Be062A	Be62		520892.00	520892.00	61
2001063A	Mountain Ave.	Berkeley Heights	3-61	Mountain Ave near Kent Dr	24			No			Be063A	Be63		505200.00	505200.00	64
2001x01	McMane Rd.	Berkeley Heights	14-14	McMane Rd near PVT Rd	42	RCP								519120.00	519120.00	62
2001x02A	Diamond Hill Rd.	Berkeley Heights	14-14-8-1	Diamond Hill Rd @ McMane Ave	18									517164.00	517164.00	65
2001x03A	Diamond Hill Rd.	Berkeley Heights	14-14	Diamond Hill Rd near County Border	15									518903.00	518903.00	65
2001x04A	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	12		May not be accessible							512145.00	512145.00	67
2001x04B	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15		May not be accessible							512560.00	512560.00	67
2001x04C	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15		May not be accessible							512935.00	512935.00	67
2001x04D	Plainfield Ave.	Berkeley Heights	14-14	Plainfield Ave near Rt 78 Overpass	15									513206.00	513206.00	67
2001x05A	Mountain Ave.	Berkeley Heights	14-14-11	Mountain Ave near Oak Ridge Rd			Size Unknown							511434.00	511434.00	64
2002013A	Raritan Rd.	Clark	10-7-12	Raritan Rd 450' North of Central Ave			Size Unknown					Cl13		545494.00	545494.00	36
2002019A	Raritan Rd.	Clark	10-7	Raritan Rd over Reservoir	24							Cl19		541749.00	541749.00	36
2002019B	Raritan Rd.	Clark	10-7	Raritan Rd over Reservoir	48						Cl019A	Cl19	2002019	541711.00	541711.00	36
2002027A	Goodmans Crossing S.	Clark	10-7	Goodman's Crossing near Lake Ave	18	RCP			Yes			Cl27		536833.00	536833.00	24

2002027B	Goodmans Crossing S.	Clark	10-7	Goodman's Crossing near Lake Ave	18	RCP			Yes			CI27		536821.00	536821.00	24	
2002033A	Raritan Rd.	Clark	10-7-16-1	Raritan Rd @ Oak Ridge Rd	36				No			CI033A	CI33	539800.00	539800.00	24	
2002x01A	Oak Ridge Rd.	Clark	10-1-6-1	Oak Ridge Rd by Raritan Rd	18		Located behind house							539482.00	539482.00	24	
2002x02A	Walnut Ave.	Clark	10-14	Walnut Ave near GSP	24									547368.00	547368.00	30	
2002x03A	Raritan Rd.	Clark	10-20	Raritan Rd along GSP	24									550337.00	550337.00	35	
2003006A	Kenilworth Blvd.	Cranford	10-30	Kenilworth Blvd over Rahway River	18							Cr006A	Cr6	2003006	544035.00	544035.00	06
2003014A	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	18							Cr014A	Cr14	2003014	545909.00	545909.00	16
2003014B	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	15							Cr014A	Cr14	2003014	545955.00	545955.00	16
2003014C	Springfield Ave.	Cranford	10	Springfield Ave near Orange Ave Bridge	15							Cr014A	Cr14	2003014	545988.00	545988.00	16
2003018A	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd near Nomahegan Rd	15							Cr018A	Cr18	2003018	543530.00	543530.00	06
2003018B	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd near Nomahegan Rd	24							Cr018A	Cr18	2003018	543546.00	543546.00	06
2003028A	South Ave.	Cranford	10	South Ave near Centennial Ave	21							Cr028A	Cr28	2003028	547441.00	547441.00	16
2003028B	South Ave.	Cranford	10	South Ave near Centennial Ave	24							Cr028B	Cr28	2003028	547441.00	547441.00	16
2003028C	South Ave.	Cranford	10	South Ave near Centennial Ave	21							Cr028A	Cr28	2003028	547366.00	547366.00	39
2003035A	North Ave.	Cranford	10	North Ave near Springfield Ave	12								Cr35		547392.00	547392.00	16
2003035B	North Ave.	Cranford	10	North Ave near Springfield Ave	21								Cr35		547391.00	547391.00	16
2003050A	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543197.00	543197.00	16
2003050B	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543218.00	543218.00	16
2003050C	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543213.00	543213.00	16
2003050D	Springfield Ave.	Cranford	10-27	Springfield Ave near Romore Ave			Size Unknown					Cr050A	Cr50	2003050	543234.00	543234.00	16
2003051A	Springfield Ave.	Cranford	10-27	Springfield Ave near Pawnee Rd	48				No			Cr051A	Cr51		542285.00	542285.00	16
2003052A	Walnut Ave.	Cranford	10	Walnut Ave near Lincoln Ave West									Cr52		546721.00	546721.00	29
2003053A	Walnut Ave.	Cranford	10	Walnut Ave @ Blake St	24				No			Cr053A	Cr53		546651.00	546651.00	29
2003054A	Walnut Ave.	Cranford	10-20	Walnut Ave near Lenhome Dr S	15		Unknown Location		No			Cr054A	Cr54		546404.00	546404.00	30
2003054B	Walnut Ave.	Cranford	10-20	Walnut Ave near Lenhome Dr S	30		Unknown Location		No			Cr054A	Cr54		546405.00	546405.00	30
2003058A	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549735.00	549735.00	17
2003058B	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549722.00	549722.00	17
2003058C	Cennennial Ave.	Cranford	10-18	Centennial Ave @ near Wall Street	15							Cr058A	Cr58	2003058	549752.00	549752.00	17
2003072A	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545260.00	545260.00	16
2003072B	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545275.00	545275.00	16
2003072C	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	36							Cr072A	Cr72	2003072	545298.00	545298.00	16
2003072D	Springfield Ave.	Cranford	10	Springfield Ave near Hampton Rd	12							Cr072A	Cr72	2003072	545322.00	545322.00	16
2003X01A	Kenilworth Blvd.	Cranford	10-30	Kenilworth Blvd before Rahway River	15									544312.00	544312.00	06	
2003x01B	Kenilworth Blvd .	Cranford	10-30	Kenilworth Blvd near Dorset Dr	12									544914.00	544914.00	06	
2003X02A	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd after Rahway River	15									543772.00	543772.00	06	
2003X02B	Kenilworth Blvd.	Cranford	10-29	Kenilworth Blvd after Rahway River	15									543789.00	543789.00	06	
2003x03A	Centennial Ave.	Cranford	10	Centennial Ave under RR bridge	24									547446.00	547446.00	16	
2003x03B	Centennial Ave.	Cranford	10	Centennial Ave under RR bridge	24									547467.00	547467.00	16	
2003x04A	Walnut Ave.	Cranford	10-20	Walnut Ave along RR tracks	24									546469.00	546469.00	30	
2004005A	South St.	Elizabeth	08	South St over Elizabeth River	18					Yes		EI005A	EI5	2004005	572432.00	572432.00	71
2004006A	Bridge St.	Elizabeth	08	Bridge St over Elizabeth River	12					Yes		EI006A	EI6	2004006	572132.00	572132.00	71
2004007A	S. Broad St.	Elizabeth	08	S Broad St over Elizabeth River	12					Yes		EI007A	EI7	2004007	571133.00	571133.00	71
2004010A	W. Jersey St.	Elizabeth	08	W Jersey St over Elizabeth River			Size Unknown					EI010A	EI10	2004010	570098.00	570098.00	56
2004011A	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	12					Yes		EI011A	EI11	2004011	570181.00	570181.00	37
2004011B	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	15					Yes		EI011A	EI11	2004011	570183.00	570183.00	37
2004011C	W. Grand St.	Elizabeth	08	W Grand St over Elizabeth River	12					Yes		EI011A	EI11	2004011	570185.00	570185.00	37
2004016A	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568166.00	568166.00	02
2004016B	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568168.00	568168.00	02
2004016C	Morris Ave.	Elizabeth	8-2	Trotters Ln over Elizabeth River	18								EI16		568192.00	568192.00	02
2004x01A	Linden Ave.	Elizabeth	9-2-3-1	Linden Ave near Acme St	15					Yes				565191.00	565191.00	58A	
2004x02A	Pearl St.	Elizabeth	08	Pearl St near Bridge St	36									572673.00	572673.00	71	
2004x03A	Pearl St.	Elizabeth	08	Pearl St near South St	15		32 Rahway Avenue							572429.00	572429.00	71	
2004x04A	Rahway Ave.	Elizabeth	08	Ruotolo Justice Center Parking Lot	15									570567.90	665969.31		
2005001A	La Grande Ave.	Fanwood	10-7-22	LaGrande Ave near Staggard Pl	66	RCP						Fa001A	Fa1		522995.00	522995.00	47
2006009A	South Ave.	Garwood	10-25	South Ave @ Elise St	15	RCP						Ga009A	Ga9	2006009	543810.00	543810.00	40
2006009B	South Ave.	Garwood	10-25	South Ave @ Elise St	15	RCP						Ga009A	Ga9	2006009	543802.00	543802.00	40
2006009C	South Ave.	Garwood	10-25	South Ave @ Elise St	24	RCP						Ga009A	Ga9	2006009	543689.00	543689.00	40
2006011A	South Ave.	Garwood	10-25	South Ave near Oak St	30	RCP						Ga011A	Ga11	2006011	542605.00	542605.00	40
2006011B	South Ave.	Garwood	10-25	South Ave near Oak St	15	RCP						Ga011A	Ga11	2006011	542606.00	542606.00	40
2006011C	South Ave.	Garwood	10-25	South Ave near Oak St	15	RCP						Ga011A	Ga11	2006011	542613.00	542613.00	40
2006x01A	South Ave.	Garwood	10-25	South Ave @ New St	15		Unknown Location							542909.00	542909.00	40	
2007020A	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)			Yes		Hi020A	Hi20	2007020	564889.00	564889.00	43
2007020B	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)					Hi020B	Hi20	2007020	564914.00	564914.00	43

2007020C	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	24	RCP	New Construction (2007)			Yes	Hi020C	Hi20	2007020	564805.00	564805.00	43
2007020D	Liberty Ave.	Hillside	08	Liberty Ave near Conant St	15	RCP	New Construction (2007)			Yes	Hi020C	Hi20	2007020	564827.00	564827.00	43
2007032A	Conant St.	Hillside	8-5	Conant St @ Central Ave	15		Outfall to Culvert	No	No	Yes		Hi32		567184.00	567184.00	66
2007032B	Conant St.	Hillside	8-5	Conant St @ Central Ave	18		Outfall to Culvert	No	No	Yes		Hi32		567224.00	567224.00	66
2007032C	Conant St.	Hillside	8-5	Conant St @ Central Ave	12		Outfall to Culvert	No	No	Yes		Hi32		567231.00	567231.00	66
2007032D	Conant St.	Hillside	8-5	Conant St @ Central Ave	12		Outfall to Culvert	No	No	Yes		Hi32		567285.00	567285.00	66
2007x01A	Conant St.	Hillside	08	Conant St near Valley View Rd	18									564948.00	564948.00	66
2008002A	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	18	RCP					Ke002A	Ke2		552260.00	552260.00	55
2008002B	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	36	RCP					Ke002B	Ke2		552314.00	552314.00	55
2008002C	Michigan Ave.	Kenilworth	10-24	Michigan Ave near Trenton Ave	18	RCP					Ke002C	Ke2		552283.00	552283.00	55
2008003A	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	18	RCP					Ke003A	Ke3	2008003	552804.00	552804.00	55
2008003B	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	18	RCP					Ke003B	Ke3	2008003	552844.00	552844.00	55
2008003C	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	15	RCP					Ke003C	Ke3	2008003	552810.00	552810.00	55
2008003D	Michigan Ave.	Kenilworth	9-1	Michigan Ave near Lexington Ave	15	RCP					Ke003C	Ke3	2008003	552849.00	552849.00	55
2009014A	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	24	RCP				Yes	Li014A	Li14	2009014	560068.00	560068.00	73
2009014B	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	24	RCP				Yes	Li014B	Li14	2009014	560077.00	560077.00	73
2009014C	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	18	RCP				Yes	Li014C	Li14	2009014	560084.00	560084.00	73
2009014D	Elizabeth Ave.	Linden	9-1	Elizabeth Ave near Lumber St	18	RCP				Yes	Li014D	Li14	2009014	560094.00	560094.00	73
2009016B	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016B	Li16	2009016	564597.00	564597.00	73
2009016C	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016C	Li16	2009016	564611.00	564611.00	73
2009016D	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016D	Li16	2009016	564618.00	564618.00	73
2009055A	Elizabeth Ave.	Linden	9-2-1-1	Elizabeth Ave near Chandler Ave			Size Unknown	No			Li055A	Li55	2009055	564305.00	564305.00	73
2009058A	Parkway Dr.	Linden	10-12-1	Parkway Dr near Stiles St	60	RCP					Li058A	Li58	2009058	551894.00	551894.00	51
2009074A	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	15	RCP					Li074A	Li74	2009074	558168.00	558168.00	34
2009074B	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	15	RCP					Li074B	Li74	2009074	558187.00	558187.00	34
2009074C	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	12	RCP					Li074C	Li74	2009074	558186.00	558186.00	34
2009074D	Wood Ave.	Linden	9-1	Wood Ave near Gibbons St	12	RCP					Li074D	Li74	2009074	558206.00	558206.00	34
2009082A	Wood Ave.	Linden	9-1	Wood Ave @ Morningside Rd			Size Unknown	No			Li082A	Li82		557658.00	557658.00	34
2009092A	Stiles St	Linden	10-12-1	Stiles St near Birchwood Rd	30						Li092A	Li92		551894.00	551894.00	51
2009i016A	Elizabeth Ave.	Linden	9-2	Elizabeth Ave near Cranford Ave	18	RCP				Yes	Li016A	Li16	2009016	564587.00	564587.00	73
200x06A	Glenside Ave	Berkeley Heights	14-14	Glenside Ave near Springholm Dr	15		outfall may not be in correct place							519498.00	519498.00	61
2010002A	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	15	RCP					Mo002A	Mo2	2010002	532124.00	532124.00	58A
2010002B	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	15	RCP					Mo002B	Mo2	2010002	532135.00	532135.00	58A
2010002C	New Providence Rd.	Mountainside	10-29	New Providence Rd near Fernwood Rd	18	RCP					Mo002B	Mo2	2010002	532160.00	532160.00	58A
2010005A	New Providence Rd.	Mountainside	10-29-3-1a	New Providence Rd near Whippoorwill Way	24			No			Mo005A	Mo5		529828.00	529828.00	59
2010005B	New Providence Rd.	Mountainside	10-29-3-1a	New Providence Rd near Whippoorwill Way	18			No			Mo005A	Mo5		529789.00	529789.00	59
2010006A	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533675.00	533675.00	44
2010006B	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533712.00	533712.00	44
2010006C	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	15	RCP					Mo006A	Mo6	2010006	533675.00	533675.00	44
2010006D	Mountain Ave.	Mountainside	10-29	Mountain Ave near Tanglewood Lane	18	RCP					Mo006A	Mo6	2010006	533712.00	533712.00	44
2010029A	Coles Ave.	Mountainside	14-14	Coles Ave near New Providence Rd	18					Yes		Mo29		527352.00	527352.00	68
2010029B	Coles Ave.	Mountainside	14-14	Coles Ave near New Providence Rd	15					Yes		Mo29		527383.00	527383.00	68
20101AA	Deer Path	Mountainside	10-29-7	Deer Path near Fox Trail Ln	48	RCP					Mo1AA	Mo1A	201001a	528088.00	528088.00	59
2010x01A	S. Springfield Ave.	Mountainside	10-29-1	S Springfield Ave near Cardinal Dr	24		Outfall has been piped in, check basins		No					538778.00	538778.00	15
2010x02A	Summit Ln.	Mountainside	10-29-3	Summit Ln near W R. Tracy Dr	15			Yes	Yes					529717.00	529717.00	68
2011007A	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007A	Ne7	2011007	518364.00	518364.00	58
2011007B	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007B	Ne7	2011007	518330.00	518330.00	58
2011007C	South St.	New Providence	3-51	South St south of Gale Dr	15	RCP					Ne007C	Ne7	2011007	518372.00	518372.00	58
2011010A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	24	RCP				Yes	Ne010A	Ne10	2011010	523372.00	523372.00	63
2011010B	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	15	RCP				Yes	Ne010B	Ne10	2011010	523378.00	523378.00	63
2011010C	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	15	RCP				Yes	Ne010C	Ne10	2011010	523398.00	523398.00	63
2011010D	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Countryside Dr	30	RCP				Yes	Ne010D	Ne10	2011010	523394.00	523394.00	63
2011018A	Springfield Ave.	New Providence	3-53	Springfield Ave near Union Ave	15				No		Ne18			513220.00	513220.00	12
2011027A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Seven Oaks Dr	18			No	No		Ne027A	Ne27		523853.00	523853.00	63
2011037A	South St.	New Providence	3-51-2	South St near Floral Ave	15	RCP					Ne037A	Ne37	2011037	519431.00	519431.00	58
2011037B	South St.	New Providence	3-51-2	South St near Floral Ave	15	RCP					Ne037B	Ne37	2011037	519463.00	519463.00	58
2011039A	South St.	New Providence	3-51-2	South St near Central Ave	15						Ne039A	Ne39	2011039	519297.00	519297.00	58
2011039B	South St.	New Providence	3-51-2	South St near Central Ave	15						Ne039A	Ne39	2011039	519301.00	519301.00	58
2011039C	South St.	New Providence	3-51-2	South St near Central Ave	18						Ne039A	Ne39	2011039	519313.00	519313.00	58
2011047A	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047A	Ne47	2011047	517569.00	517569.00	12
2011047B	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517589.00	517589.00	12
2011047C	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517593.00	517593.00	12
2011047D	Springfield Ave.	New Providence	3-51	Springfield Ave near South St	15	RCP					Ne047B	Ne47	2011047	517625.00	517625.00	12

2011058A	Madison Ave.	New Providence	3-50	Madison Ave near Elkwood Ave	24								Ne58		520120.00	520120.00	12		
2011060A	Passaic St.	New Providence	3	Passaic St over Passaic River	18								Ne060A	Ne60	2011060	517849.00	517849.00	48	
2011063A	Springfield Ave.	New Providence	3-51	Old Springfield Ave & RR	18			Located by RR					Ne63			523382.00	523382.00	11	
2011074A	Passaic Ave.	New Providence	3-50	Passaic Ave near Brook Rd	15								Ne074A	Ne74	2011074	517873.00	517873.00	58	
2011074B	Passaic Ave.	New Providence	3-50	Passaic Ave near Brook Rd	15								Ne074A	Ne74	2011074	517911.00	517911.00	58	
2011086A	Mountain Ave.	New Providence	3-51-2	Mountain Ave near South St	42						No		Ne086A	Ne86		520766.00	520766.00	69	
2011x01A	Springfield Ave.	New Providence	3-53	Springfield Ave @ Union Ave	15			Outfall at H.D Wall								513310.00	513310.00	12	
2011x02A	South St.	New Providence	3-51-2	South St near Mountain Ave	15											520564.00	520564.00	58	
2011x03A	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Maple St	12											523194.00	523194.00	63	
2011x03B	Mountain Ave.	New Providence	3-51-4	Mountain Ave near Maple St	21						No					523136.00	523136.00	63	
2011x05A	South St.	New Providence	3-51	South St near Gales Dr				Size Unknown								518121.00	518121.00	58	
2011x06A	South St.	New Providence	3-51	South St near Springfield Ave	21											517760.00	517760.00	58	
2012060A	Terrill Rd.	Plainfield	14-14-3-4-2	Terrill Rd near St Nicholas Blvd						Yes	Yes			PI60		520322.00	520322.00	22	
2012061A	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	24					No		Yes		PI61		523145.00	523145.00	22	
2012061B	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	15					No		Yes		PI61		523157.00	523157.00	22	
2012061C	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	30					No		Yes		PI61		523161.00	523161.00	22	
2012061D	Terrill Rd.	Plainfield	10-7-22	Terrill Rd near White Wood Ct	15					No		Yes		PI61		523170.00	523170.00	22	
2012062A	Terrill Rd.	Plainfield	10-7-22-7	Terrill Rd near Cambridge Ave	48					Yes	Yes			PI62		523899.00	523899.00	22	
2013009A	Hazelwood Ave.	Rahway	10-6	Hazelwood Ave near Leesville Ave	10							Yes		Ra009A	Ra9	2013009	554853.00	554853.00	31
2013009B	Hazelwood Ave.	Rahway	10-6	Hazelwood Ave near Leesville Ave	10									Ra009A	Ra9	2013009	554839.00	554839.00	31
2013021A	Milton Ave.	Rahway	10	Milton Ave over Rahway River	18									Ra021A	Ra21	2013021	555462.00	555462.00	33
2013021B	Milton Ave.	Rahway	10	Milton Ave over Rahway River	42									Ra021A	Ra21	2013021	555611.00	555611.00	33
2013021C	Milton Ave.	Rahway	10	Milton Ave over Rahway River	15									Ra021A	Ra21	2013021	555608.00	555608.00	33
2013023A	Lawrence St.	Rahway	10	Lawrence St near Hazelwood Ave	24	RCP								Ra023A	Ra23	2013023	556365.00	556365.00	56
2013023B	Lawrence St.	Rahway	10	Lawrence St near Hazelwood Ave	30	RCP								Ra023A	Ra23	2013023	556417.00	556417.00	56
2013028A	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	15	RCCP								Ra028A	Ra28	2013028	546849.00	546849.00	25
2013028B	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	15	RCCP								Ra028B	Ra28	2013028	546890.00	546890.00	25
2013028C	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	24	RCCP								Ra028C	Ra28	2013028	546851.00	546851.00	25
2013028D	Madison Ave.	Rahway	10-7	Madison Hill Road near Kanski Ct	18	RCCP								Ra028D	Ra28	2013028	546890.00	546890.00	25
2013030A	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave				Size Unknown, May not exist						Ra030A	Ra30	2013030	554818.00	554818.00	29
2013030B	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave	12	VIT						Yes		Ra030A	Ra30	2013030	554849.00	554849.00	29
2013030C	W. Grand Ave.	Rahway	10	West Grand Ave near Linden Ave	12	VIT						Yes		Ra030A	Ra30	2013030	554838.00	554838.00	29
2013048A	W. Scott Ave.	Rahway	10-8	W Scott Ave near Allen St	12	VC;RCP						Yes		Ra048A	Ra48	2013048	555421.00	555421.00	65
2013048B	W. Scott Ave.	Rahway	10-8	W Scott Ave near Allen St	24	VC;RCP						Yes		Ra048B	Ra48	2013048	555450.00	555450.00	65
2013068A	New Brunswick Ave.	Rahway	10-6-2	New Brunswick Ave near St Georges Ave	15									Ra068A	Ra68		550477.00	550477.00	32
2013069A	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes		Ra069A	Ra69	2013069	555914.00	555914.00	31
2013069B	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes		Ra069B	Ra69	2013069	555931.00	555931.00	31
2013069C	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes		Ra069C	Ra69	2013069	555920.00	555920.00	31
2013069D	Hazelwood Ave.	Rahway	10-5	Hazelwood Ave near Route 1 & 9	12	VC;3RCP						Yes		Ra069D	Ra69	2013069	555936.00	555936.00	31
2013x01A	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Clark St	21											556845.00	556845.00	32	
2013x01B	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Stockton St	39											557277.00	557277.00	32	
2013x01C	Hazelwood Ave.	Rahway	10	Hazelwood Ave @ Witherspoon St	42											557630.00	557630.00	32	
2014029A	Amersterdam Ave.	Roselle	9-1	Cristiani St near Amsterdam Ave	24							Yes			Ro29		553806.00	553806.00	62
2014030A	Amersterdam Ave.	Roselle	9-1	Amsterdam Ave near Cox St	12	RCP				No		Yes		Ro030A	Ro30	2014030	553687.00	553687.00	62
2014030B	Amersterdam Ave.	Roselle	9-1	Amsterdam Ave near Cox St	12	RCP				No		Yes		Ro030B	Ro30	2014030	553683.00	553683.00	62
2014039A	First Ave.	Roselle	9-1	FirSt Ave near Aldene Rd	24							No			Ro39		553085.00	553085.00	38
2014039B	First Ave.	Roselle	9-1	FirSt Ave near Aldene Rd	18			May not be accessible			No				Ro39		553067.00	553067.00	38
2014066A	Chestnut St.	Roselle	9-2-4	Chestnut St near Seventh Ave	24										Ro66		558297.00	558297.00	04
2014x01A	W. Ninth Ave.	Roselle	9-1	W 9th Ave by RR Crossing				Size: 20"x36"								557169.00	557169.00	39	
2016006A	Terrill Rd.	Scotch Plains	10-7-22	Raritan Rd West of Terrill Rd	36			Possible additional Outfall		Yes	Yes				Sc6		529313.00	529313.00	23
2016007A	Raritan Rd.	Scotch Plains	10-7-22-1	Raritan Rd EaSt of Terrill Rd	15	RCP						Yes		Sc007A	Sc7	2016007	529576.00	529576.00	23
2016007B	Raritan Rd.	Scotch Plains	10-7-22-1	Raritan Rd EaSt of Terrill Rd	18	RCP						Yes		Sc007B	Sc7	2016007	529593.00	529593.00	23
2016013A	Park Ave.	Scotch Plains	14-14	Park Ave near Route 22	18	RCP		Possible additional Outfall						Sc013A	Sc13	2016013	518871.00	518871.00	21
2016014A	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	42	RCP								Sc014A	Sc14	2016014	521140.00	521140.00	20
2016014B	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	15	RCP								Sc014B	Sc14	2016014	521142.00	521142.00	20
2016014C	Park Ave.	Scotch Plains	14-14-3-4	Park Ave near Church St	30	RCP								Sc014C	Sc14	2016014	521174.00	521174.00	20
2016017A	Terrill Rd.	Scotch Plains	14-14	Terrill Rd over Green Brook	18	RCP		Possible incorrect storm drain lines			Yes			Sc017A	Sc17	2016017	517524.00	517524.00	22
2016017B	Terrill Rd.	Scotch Plains	14-14	Terrill Rd over Green Brook	18	RCP		Possible incorrect storm drain lines			Yes			Sc017B	Sc17	2016017	517561.00	517561.00	22
2016022A	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	42	RCP		Possible incorrect number of Outfalls				Yes		Sc022A	Sc22	2016022	527602.00	527602.00	20
2016022B	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	30	RCP						Yes		Sc022B	Sc22	2016022	527607.00	527607.00	20
2016022C	Martine Ave.	Scotch Plains	10-7-22-1	Martine Ave near Cliffwood St	30	RCP						Yes		Sc022C	Sc22	2016022	527615.00	527615.00	20
2016056A	Lamberts Mill Rd.	Scotch Plains	10-7-15	Lamberts Mill Rd near LVRR	15	RCP								Sc056A	Sc56	2016056	539808.00	539808.00	69
2016x01A	Mountain Ave.	Scotch Plains	14-14	End of Mountain Ave	18			Unknown Location								518028.00	518028.00	17	

2016x01B	Mountain Ave.	Scotch Plains	14-14	End of Mountain Ave	30		Unknown Location										518033.00	518033.00	17	
2016x02A	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	24		Runoff to Ditch											524932.00	524932.00	18
2016x02B	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	18		Runoff to Ditch											525519.00	525519.00	18
2016x02C	Mountain Ave.	Scotch Plains	14-14-6	Mountain Ave by Route 22	18		Runoff to Ditch											525699.00	525699.00	18
2016x03A	Bonnie Burn Rd.	Scotch Plains	14-14	Bonnie Burn Rd by Route 22	18													518860.00	518860.00	21
2016x04A	Raritan Rd.	Scotch Plains	10-7	Raritan Rd near Black Birch Rd	42													532080.00	532080.00	23
2016x05A	Martine Ave.	Scotch Plains	10-7	Martine Ave near Country Club Blvd	15		Unknown Location											534873.00	534873.00	75
2017002A	Mountain Ave.	Springfield	10-35-2	Mountain Ave @ Hannah St	15	RCP		No					Sp002A	Sp2	2017002		544081.00	544081.00	19	
2017005A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd near Baltusrol Way	15	RCP							Sp005A	Sp5			539937.00	539937.00	14	
2017009A	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	08	RCP	Located downstream						Sp009A	Sp9	2017009		537022.00	537022.00	13	
2017009B	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	18	RCP	Located downstream						Sp009B	Sp9	2017009		537048.00	537048.00	13	
2017009C	Shunpike Rd.	Springfield	10-35	Shunpike Rd @ Town Line with Summit	15	RCP							Sp009C	Sp9	2017009		536984.00	536984.00	13	
2017011A	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011A	Sp11	2017011		543728.00	543728.00	19	
2017011B	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011B	Sp11	2017011		543665.00	543665.00	19	
2017011C	Mountain Ave.	Springfield	10-35	Mountain Ave near Trivett Ave	18	RCP							Sp011C	Sp11	2017011		543709.00	543709.00	19	
2017012A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd South of Baltusrol Way	12			No					Sp12				540432.00	540432.00	14	
2017014A	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014A	Sp14	2017014		541097.00	541097.00	14	
2017014B	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014B	Sp14	2017014		541137.00	541137.00	14	
2017014C	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014C	Sp14	2017014		541088.00	541088.00	14	
2017014D	S. Springfield Ave.	Springfield	10-32	So Springfield Ave near Beverly Rd	15	RCP							Sp014D	Sp14	2017014		541124.00	541124.00	14	
2017017A	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017A	Sp17	2017017		539710.00	539710.00	50	
2017017B	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017B	Sp17	2017017		539754.00	539754.00	50	
2017017C	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	VP							Sp017C	Sp17	2017017		539699.00	539699.00	50	
2017017D	Hillside Ave.	Springfield	10-32	Hillside Ave near Ann Pl	18	RCP							Sp017D	Sp17	2017017		539754.00	539754.00	50	
2017022A	Summit Rd.	Springfield	14-14	Baltusrol Rd near Sharon Rd	30								Sp22	Sp22			532729.00	532729.00	70	
2017031A	Mountain Ave.	Springfield	10-32-2	Mountain Ave near Hillside Ave			Size Unknown	No	No	Yes			Sp031A	Sp31			540086.00	540086.00	18	
2017032A	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	15			No		Yes			Sp032A	Sp32			539069.00	539069.00	18	
2017032B	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	15			No		Yes			Sp032A	Sp32			539098.00	539098.00	18	
2017032C	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	12			No		Yes			Sp032A	Sp32			539067.00	539067.00	18	
2017032D	Mountain Ave.	Springfield	10-32	Mountain Ave @ Hillside Ave	12			No		Yes			Sp032A	Sp32			539094.00	539094.00	18	
2017033A	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033A	Sp33	2017033		543978.00	543978.00	48	
2017033B	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033B	Sp33	2017033		544008.00	544008.00	48	
2017033C	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033C	Sp33	2017033		543951.00	543951.00	48	
2017033D	Meisel Ave.	Springfield	10-35	Meisel Ave near Laural Dr	18	RCP							Sp033D	Sp33	2017033		543987.00	543987.00	48	
2017050A	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540844.00	540844.00	14	
2017050B	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540856.00	540856.00	14	
2017050C	Shunpike Rd.	Springfield	10-35-5-2	Shunpike Rd @ Eton Pl.	15					Yes			Su50	Su50	2017050		540821.00	540821.00	14	
2017060A	Mountain Ave.	Springfield	10-29-1	Mountain Ave near Gregory Rd	24	RCP		No		Yes			Sp060A	Sp60	2017060		538093.00	538093.00	18	
2017063A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd @ Baltusrol Way	15	RCP		No		Yes			Sp063A	Sp63			540118.00	540118.00	14	
2017065A	Meisel Ave.	Springfield	10-35	Meisel Ave near Berkeley Rd	15	RCP							Sp065A	Sp65			544689.00	544689.00	48	
2017x01A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd across from Mountview Dr	12		Outfall at H.D Wall											539135.00	539135.00	14
2017x02A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd @ Wilson Rd	12		Outfall at H.D Wall											539197.00	539197.00	14
2017x03A	S. Springfield Ave.	Springfield	10-29-1	S Springfield Ave at Mountainside BoRder	15													538820.00	538820.00	15
2017x04A	Mountain Ave.	Springfield	10-35-2	Mountain Ave after Hannah St	15													544153.00	544153.00	19
2017x05A	Shunpike Rd.	Springfield	10-35-5	Shunpike Rd near Baltusrol Way	15													539454.00	539454.00	14
2018004A	River Rd.	Summit	3	River Rd near Woodland Ave	18	RCP							Su004A	Su4	2018004		527982.00	527982.00	10	
2018004B	River Rd.	Summit	3	River Rd near Woodland Ave	18	RCP							Su004B	Su4	2018004		528017.00	528017.00	10	
2018005A	Springfield Ave.	Summit	3-51	Springfield Ave near High St	30		Located behind house	No					Su005A	Su5			527896.00	527896.00	11	
2018006A	Springfield Ave.	Summit	3-51	Springfield Ave @ Blackburn Rd	15		Adjacent Outfalls (2) are Municipality's Responsibility	No					Su006A	Su6			528829.00	528829.00	11	
2018006B	Springfield Ave.	Summit	3-51	Springfield Ave @ Blackburn Rd	24			No					Su006A	Su6			528854.00	528854.00	11	
2018007A	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007A	Su7	2018007		527223.00	527223.00	10	
2018007B	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007B	Su7	2018007		527249.00	527249.00	10	
2018007C	River Rd.	Summit	3-44	River Rd near Greenfield Ave	18	RCP							Su007C	Su7	2018007		527242.00	527242.00	10	
2018008A	River Rd.	Summit	3	River Rd over Passaic River	18								Su008xA	Su8	1400515		525661.00	525661.00	10	
2018012A	Broad St.	Summit	10-35-6	Broad St @ Middle Ave		RCP	Either 15" or 36" Diameter						Su012A	Su12	2018012		537798.00	537798.00	06	
2018017A	Springfield Ave.	Summit	3-51	Springfield Ave near Blackburn Rd	36		Located behind house	No					Su017A	Su17			528422.00	528422.00	11	
2018018A	Springfield Ave.	Summit	3-51	Springfield Ave near Oakley Ave	42		Located behind house	No					Su018A	Su18			525858.00	525858.00	11	
2018019A	Springfield Ave.	Summit	3-51	Springfield Ave near Harrison Ct	30		Located behind house	No					Su019A	Su19			525291.00	525291.00	11	
2018022A	Summit Ave.	Summit	3-42	Summit Ave near Bellevue Ave	48		Culvert	No					Su022A	Su22			531861.00	531861.00	72	
2018024A	Springfield Ave.	Summit	3-51	Springfield Ave near Harrison Ct	36		Located behind house	No	No				Su024A	Su24			524874.00	524874.00	11	
2018039A	Chatham Rd.	Summit	3	Chatham Rd over Passaic River	15	VIT				Yes			Su039xA	Su39	1400514		526043.00	526043.00	10	
2018039B	Chatham Rd.	Summit	3	Chatham Rd over Passaic River	15	VIT				Yes			Su039xA	Su39	1400514		526067.00	526067.00	10	
2018052A	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	12	RCP							Su052A	Su52	2018052		524331.00	524331.00	11	

2018052B	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	15	RCP						Su052B	Su52	2018052	524360.00	524360.00	11	
2018052C	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	24	RCP						Su052C	Su52	2018052	524331.00	524331.00	11	
2018052D	Passaic Ave.	Summit	3-48	Passaic Ave @ Erie-Lackawanna R R	12	RCP						Su052D	Su52	2018052	524360.00	524360.00	11	
2018068A	Chatham Rd.	Summit	3	Chatham Rd near Passaic River	16							Su068A	Su68		526101.00	526101.00	10	
2018079A	River Rd.	Summit	3-42	River Rd near Route 24	10	VCP						Su079A	Su79	2018079	528512.00	528512.00	04A	
2018094A	Springfield Ave.	Summit	10-35-6	Springfield Ave near Middle Ave	18							Su094A	Su94	2018094	537312.00	537312.00	08	
2018094B	Springfield Ave.	Summit	10-35-6	Springfield Ave near Middle Ave	18							Su094B	Su94	2018094	537312.00	537312.00	08	
2018x01A	River Rd.	Summit	3	River Rd @ Brainerd Rd.											527564.00	527564.00	10	
2018x02A	River Rd.	Summit	3	River Rd @ Fay pl											527731.00	527731.00	10	
2018x03A	Passaic Ave.	Summit	3	River Rd @ Passaic Ave.	15										525633.00	525633.00	10	
2018x04A	Passaic Ave.	Summit	3	Passaic Ave near PVT Rd	18								Su76		525291.00	525291.00	10	
2018x04B	Passaic Ave.	Summit	3	River Rd near PVT Rd	15										524824.00	524824.00	10	
2018x05A	Constantine Pl.	Summit	3	Passaic Ave @ Constantine pl	24										523929.00	523929.00	11	
2018x06A	Springfield Ave.	Summit	10-35	Springfield Ave near Middle Ave	18										537640.00	537640.00	08	
2018x06B	Springfield Ave.	Summit	10-35	Springfield Ave near Middle Ave	18										538028.00	538028.00	08	
2018x07A	Glenside Ave.	Summit	14-14	Glenside Ave by InterState 78	18										530308.00	530308.00	60	
2018x08A	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass											528235.00	528235.00	04A	
2018x08B	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass	24										528132.00	528132.00	04A	
2018x08C	John F. Kennedy Pkwy.	Summit	3-42	JFK Pkwy near Rt 24 Overpass	15										528140.00	528140.00	04A	
2019007A	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP						Un007A	Un7	2019007	558451.00	558451.00	02	
2019007B	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP						Un007B	Un7	2019007	558483.00	558483.00	02	
2019007C	Stuyvesant Ave.	Union	8-13	Stuyvesant Ave near Oakland Ave	18	RCP							Un7		558377.00	558377.00	02	
2019011A	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	15	RCP						Un011A	Un11	2019011	555686.00	555686.00	03	
2019011B	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	18	RCP						Un011B	Un11	2019011	555732.00	555732.00	03	
2019011C	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	30	RCP						Un011C	Un11	2019011	555687.00	555687.00	03	
2019011D	Chestnut St.	Union	8-13	Chestnut St near Garden State Parkway	20	RCP	May not be accessible					Un011D	Un11	2019011	555749.00	555749.00	03	
2019026A	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	18					No			Un26		552058.00	552058.00	52	
2019026B	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	15					No			Un26		552103.00	552103.00	52	
2019026C	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	12					No			Un26		552058.00	552058.00	52	
2019026D	Burnet Ave.	Union	10-37-2	Burnet Ave near Allen Ave	12					No			Un26		552103.00	552103.00	52	
2019027A	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552461.00	552461.00	54	
2019027B	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	30						Yes		Un27		552465.00	552465.00	54	
2019027C	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552428.00	552428.00	54	
2019027D	Vauxhall Rd.	Union	10-37-3-2	Vauxhall Rd @ Brown Ave	15						Yes		Un27		552433.00	552433.00	54	
2019028A	Vauxhall Rd.	Union	10	Vauxhall Rd @ County Line	24						Yes	Un028A	Un28	2019028	550258.00	550258.00	54	
2019037A	Vauxhall Rd.	Union	8-9	Vauxhall Rd near Faitoute Ave	15	RCP						Un037A	Un37	2019037	563204.00	563204.00	52	
2019037B	Vauxhall Rd.	Union	8-9	Vauxhall Rd near Faitoute Ave	24	RCP						Un037B	Un37	2019037	563195.00	563195.00	52	
2019062A	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	30								Un62		552976.00	552976.00	54	
2019062B	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	12								Un62		552984.00	552984.00	54	
2019062C	Vauxhall Rd.	Union	10-37-2	Vauxhall Rd near Burnnet Ave	12								Un62		553220.00	553220.00	54	
2019069A	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	18	VCP						Un069A	Un69	2019069	554721.00	554721.00	54	
2019069B	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	24	VCP						Un069B	Un69	2019069	554748.00	554748.00	54	
2019069C	Vauxhall Rd.	Union	8-13-3-3	Vauxhall Rd near Wooley Ave	24	RCP						Un069C	Un69	2019069	554749.00	554749.00	54	
2019070A	North Ave.	Union	10-7-17-5	North Ave near Promenade	24						Yes		Un70		528559.00	528559.00	01	
2019079A	Ostwood Ter.	Union	8-13-1	Ostwood Terr near Stuyvesant Ave	18	RCP	Possible additional outfall from preexisting adjacent basin						Un79		559611.00	559611.00	02	
2019079B	Ostwood Ter.	Union	8-13-1	Ostwood Terr near Stuyvesant Ave	18	RCP							Un79		559633.00	559633.00	02	
2020006A	Springfield Ave.	Westfield	10-29-1	Springfield Ave near Cardinal Dr	15	RCP						We006A	We6	2020006	538810.00	538810.00	15	
2020006B	Springfield Ave.	Westfield	10-29-1	Springfield Ave near Cardinal Dr	15	RCP						We006A	We6	2020006	538851.00	538851.00	15	
2020059A	South Ave.	Westfield	10-25	South Ave near LivingSton St	66								We59		537831.00	537831.00	40	
2020068A	Lamberts Mill Rd.	Westfield	10-7-17-3	Lamberts Mill Rd near Radley Rd	24	RCP	Size Unknown						We068A	We68	2020068	533381.00	533381.00	69
2020079A	Central Ave.	Westfield	10-7-15-2	Central Ave near Sycamore St	18								We79		539080.00	539080.00	27	
2020088A	E Broad St.	Westfield	10-26	E Broad St near Karen Terr	16					No			We088A	We88		538583.00	538583.00	25
2020089A	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	15								We089A	We89	2020089	538872.00	538872.00	15
2020089B	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	15								We089A	We89	2020089	538968.00	538968.00	15
2020089C	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	24								We089A	We89	2020089	538898.00	538898.00	15
2020089D	Springfield Ave.	Westfield	10-29	Springfield Ave near Mill La	18								We089A	We89	2020089	538977.00	538977.00	15
2020105A	Myrtle Ave.	Westfield	10-25-1	Central Ave near Myrtle Ave			Size Unknown						We105		537672.00	537672.00	27	
2020x01A	Lamberts Mill Rd.	Westfield	10-7-15	Lamberts Mill Rd near Scotch Plains Border	27		Outfall is located north of Roadway			No					537719.00	537719.00	69	

APPENDIX F

STREET

SWEEPING

SCHEDULE

Engineering, Public Works & Facilities Management

Street Sweeping Schedule

The schedule is in full effect from April 1st through November 1st. From November 1st through December 31st Street Sweepers will be assisting Leaf Removal Crews. During Winter Operations January 1st through March 31st. Roads will be swept as conditions permit.

Week 1

Week 1 is the first fullest week of each month. The schedule is weather and conditions permitting –If conditions do not permit sweeping please refer to the following scheduled date. Park Roadways are swept on the same schedule as their corresponding municipality. Parking lots in the County Parks to be swept on the odd (5th) week except as otherwise noted in the schedule.

Monday

- Sweep 1
 - **New Providence**
- Sweep 2
 - **Berkeley Heights**

Tuesday

- Sweep 1
 - Linden Wood Av
 - Rahway Stiles/Ross
- Sweep 2
 - Clark / Winfield Oak Ridge/Parkway Dr

Wednesday

- Sweep 1
 - Cranford/Garwood
 - Linden Eliz Ave
- Sweep 2
 - Springfield

Thursday

- Sweep 1
 - Kenilworth
 - Roselle Park Faitoute
 - Linden Stiles St
- Sweep 2
 - Mountainside

Friday

- Sweep 1
 - Union Township Salem/Chestnut/Gall Hill/Tucker/Magie

- Sweep 2
 - **Union Township Vaux Hall/ Burnett Stuyvesant**

Week 2

Monday

- Sweep 1
 - **Rahway Scott/Grand/Lawrence**
 - **Elizabeth/Westfield**
- Sweep 2
 - **Rahway Inman/Hazelwood/ Milton/New Brunswick/Hart/Woodbridge Rd**

Tuesday

- Sweep 1
 - **Summit Mountain/Ashland/Broad/Summit Ave/Orchard/Glenside/Baltusrol/Morris Split**
- Sweep 2
 - **Summit Springfield Ave/River Rd/ Passaic/Constantine/ Morris/Spring to River**

Wednesday

- Sweep 1
 - **Scotch Plains**

- Sweep 2
 - **Westfield**

Thursday

- Sweep 1
 - **Kenilworth / Hillside**
- Sweep 2
 - **Fanwood / Scotch Plains**

Friday

- Sweep 1
 - **Plainfield 7th Street/ Park Ave/Plainfield Ave**
- Sweep 2
 - **Plainfield / Scotch Plains Front St/ Terrill Road**

Week 3

Monday

- Sweep 1
 - **New Providence**
- Sweep 2
 - **Berkeley Heights**

Tuesday

- Sweep 1
 - Linden Wood Ave
 - Rahway Stiles & Ross St
- Sweep 2
 - Clark / Winfield Oak Ridge Rd & Parkway Drive

Wednesday

- Sweep 1
 - Roselle
- Sweep 2
 - Cranford / Garwood

Thursday

- Sweep 1
 - Roselle Park Locust & Chestnut
 - Roselle / Linden – Stiles St
- Sweep 2
 - Springfield

Friday

- Sweep 1
 - Union Township Salem/Chestnut/Gall Hill/Tucker/Magie

- Sweep 2
 - **Union Township** Vaux Hall/ Burnett/Stuyvesant

Week 4

Monday

- Sweep 1
 - **Rahway** Scott/Grand/Lawrence/Elizabeth/Westfield
- Sweep 2
 - **Rahway** Inman/Hazelwood/Milton/New Brunswick/Hart/Woodbridge Rd

Tuesday

- Sweep 1
 - **Summit** Mountain/Ashland/Broad/Summit Ave/Orchard/Glenside/Baltusrol/Morris Split
- Sweep 2
 - **Summit** Springfield Ave/River Rd/ Passaic/Constantine/ Morris/Spring to River

Wednesday

- Sweep 1
 - **Mountainside**

- Sweep 2
 - **Westfield**

Thursday

- Sweep 1
 - **Hillside**
- Sweep 2
 - **Fanwood**

Friday

- Sweep 1
 - **Plainfield** 7th Street/ Park Ave/Plainfield Ave
- Sweep 2
 - **Plainfield / Scotch Plains** Front St./Terrill Road

Week 5 / Odd Week

Monday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave
- Sweep 2
 - **Elizabeth** W.Grand / Magie/ Orchard/ Jefferson/Morris/ N. Broad

Tuesday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave
- Sweep 2
 - **Elizabeth** W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad

Wednesday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave
- Sweep 2
 - **Elizabeth** W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad

Thursday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave
- Sweep 2
 - **Elizabeth** W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad

Friday

- Sweep 1
 - **Elizabeth** Jersey /Pearl /Grove/Linden Ave/ S.Broad/Lidgerwood/Rahway Ave

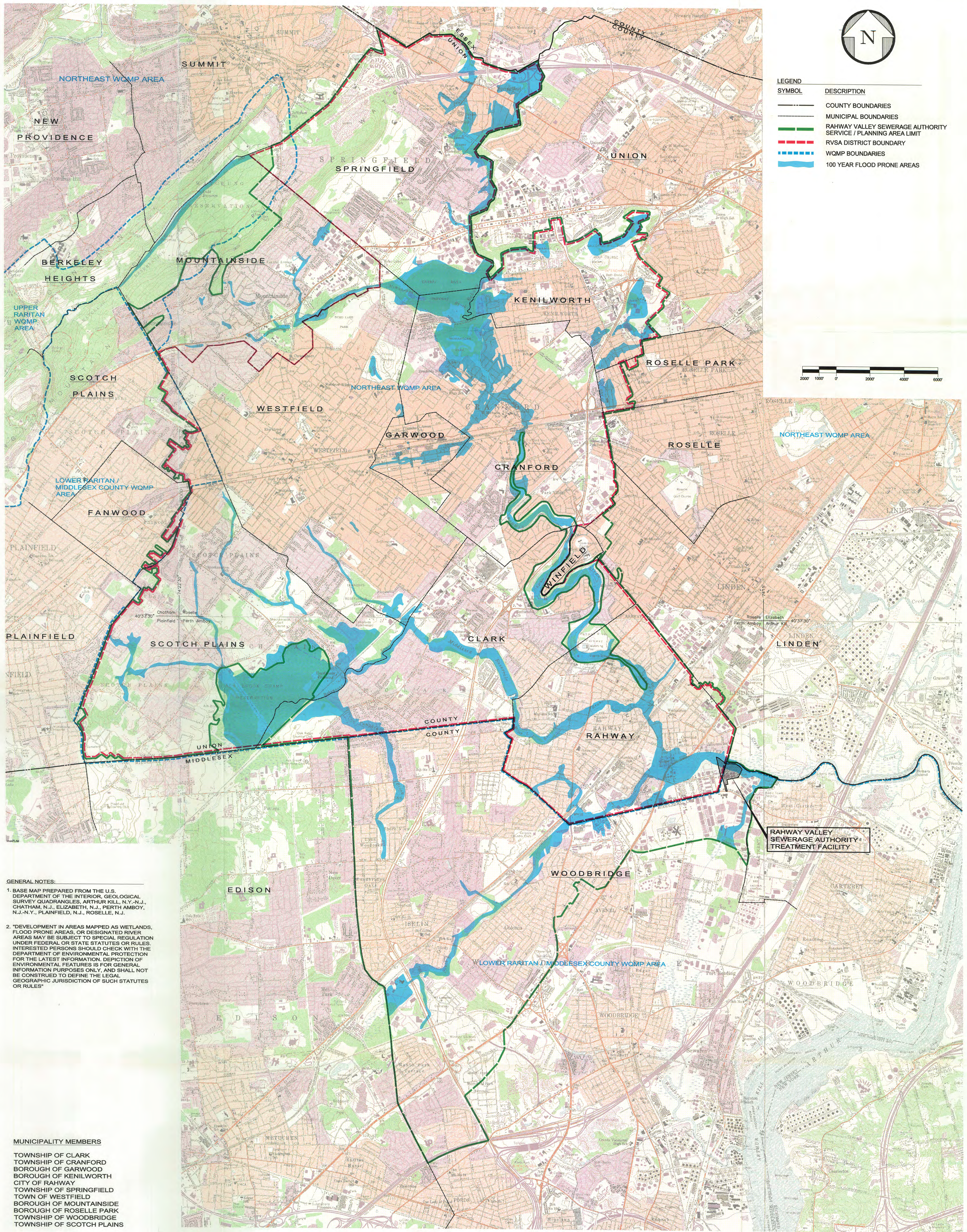
- Sweep 2
 - **Elizabeth W.Grand/ Magie/ Orchard/ Jefferson/Morris/ N.Broad**

Up ↑

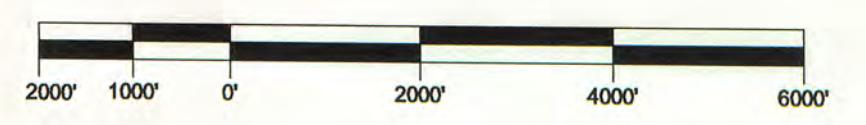
APPENDIX G

DRAINAGE

MAPS



SYMBOL	DESCRIPTION
—	COUNTY BOUNDARIES
—	MUNICIPAL BOUNDARIES
—	RAHWAY VALLEY SEWERAGE AUTHORITY SERVICE / PLANNING AREA LIMIT
—	RVSA DISTRICT BOUNDARY
—	WQMP BOUNDARIES
—	100 YEAR FLOOD PRONE AREAS



GENERAL NOTES:

1. BASE MAP PREPARED FROM THE U.S. DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY QUADRANGLES, ARTHUR KILL, N.Y.-N.J., CHATHAM, N.J., ELIZABETH, N.J., PERTH AMBOY, N.J.-N.Y., PLAINFIELD, N.J., ROSELLE, N.J.
2. "DEVELOPMENT IN AREAS MAPPED AS WETLANDS, FLOOD PRONE AREAS, OR DESIGNATED RIVER AREAS MAY BE SUBJECT TO SPECIAL REGULATION UNDER FEDERAL OR STATE STATUTES OR RULES. INTERESTED PERSONS SHOULD CHECK WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE LATEST INFORMATION. DEPICTION OF ENVIRONMENTAL FEATURES IS FOR GENERAL INFORMATION PURPOSES ONLY, AND SHALL NOT BE CONSTRUED TO DEFINE THE LEGAL GEOGRAPHIC JURISDICTION OF SUCH STATUTES OR RULES"

MUNICIPALITY MEMBERS

TOWNSHIP OF CLARK
 TOWNSHIP OF CRANFORD
 BOROUGH OF GARWOOD
 BOROUGH OF KENILWORTH
 CITY OF RAHWAY
 TOWNSHIP OF SPRINGFIELD
 TOWN OF WESTFIELD
 BOROUGH OF MOUNTAINSIDE
 BOROUGH OF ROSELLE PARK
 TOWNSHIP OF WOODBRIDGE
 TOWNSHIP OF SCOTCH PLAINS

**RAHWAY VALLEY SEWERAGE AUTHORITY
 UNION AND MIDDLESEX COUNTIES, NEW JERSEY
 PLANNING AREA AND
 ENVIRONMENTAL FEATURES-
 FLOOD PRONE AREAS MAP**

MAP #1



UNION COUNTY WATERSHEDS



UNION COUNTY

Passaic River
Upr (above
Pine Bk br)

Elizabeth River

Newark Bay /
Kill Van Kull
/ Upr NY Bay

Raritan R.
Lower (Lawrence
to Millstone)

Rahway River
/ Woodbridge
Creek

Morses Creek
/ Piles
Creek

Data Provided by the Bureau of GIS
Created: April 20, 2012

Legend

- Interstate
- US Highway
- State Highway
- County Highway
- Garden State Parkway
- Rivers and Streams

WaterSheds

- <all other values>
- Elizabeth River
- Morses Creek / Piles Creek
- Newark Bay / Kill Van Kull / Upr NY Bay
- Passaic River Upr (above Pine Bk br)
- Rahway River / Woodbridge Creek
- Raritan R Lower (Lawrence to Millstone)



APPENDIX H
GOOD HOUSE
KEEPING
MEASURES

COUNTY OF UNION STANDARD OPERATING PROCEDURE GOOD HOUSEKEEPING

GOOD HOUSEKEEPING GOALS

- Proper Recycling
- Proper Waste Disposal
- Pollution Prevention
- Street Sweeper Residuals
- Catch Basin Cleaning Residuals
- Storage of Aggregate Materials
- Operation & Maintenance of Oil/Water Separators



Introduction and Purpose This SOP contains the basic practices of good housekeeping to be implemented at maintenance yards including maintenance activities at ancillary operations for the County of Union. The purpose of this SOP is to provide a set of guidelines for the employees of County of Union for Good Housekeeping Practices at their maintenance yards including maintenance yards at ancillary operations.

Scope This SOP applies to all maintenance yards including maintenance activities at ancillary operations in County of Union.

Standards and Specifications (General)

- All containers should be properly labeled and marked, and the labels must remain clean and visible.
- All containers must be kept in good condition and tightly closed when not in use.
- When practical, chemicals, fluids and supplies should be kept indoors.
- If containers are stored outside, they must be covered and placed on spill platforms.
- Keep storage areas clean and well organized.
- Spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.
- Absorbent spill clean-up materials must be available in maintenance areas and shall be disposed of properly after use.
- Place trash, dirt and other debris in the dumpster.
- Collect waste fluids in properly labeled containers and dispose of them properly.
- Establish and maintain a recycling program by disposing of properly after use.
- Place trash, dirt and other debris in the dumpster.
- Collect waste fluids in properly labeled containers and dispose of them properly.
- Establish and maintain a recycling program by disposing papers, cans, bottles and trash in designated bins.

Standards and Specifications (Salt and De-icing Material handling)

- During loading and unloading of salt and de-icing materials, prevent and/or minimize spills. If salt or de-icing materials are spilled, remove the materials using dry cleaning methods. All collected materials shall be either reused or properly discarded.

- Sweeping should be conducted once a week to get rid of dirt and other debris. Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance that the salt and de-icing materials are transported during loading/unloading activities.
- Any materials that are stored outside must be tarped when not actively being used.
- If intern seasonal tarping is being implemented, de-icing materials may be stored outdoors only between October 15th through April 30th.

- Spill Response And Reporting
- Conduct clean up of any spill(s) immediately after discovery.
 - Spills are to be cleaned using dry cleaning methods only.
 - Contact the Capitol County Division of Environmental Health Services at 908-654-9890.

- Maintenance and Inspection
- Periodically check for leaks and damaged equipment and make repairs as necessary.
 - Perform monthly inspections of all (indoor and outdoor if applicable) storage locations.

Street Sweeping & Disposal

Residual Storage The street sweepings are stored in a bin at 301 Shunpike Road (aka Union County Conservation Center). There are placed on an impervious surface contained between concrete block walls. These materials are then hauled away by a private entity contracted by Union County Department of Public Works.

Catch Basin

Cleaning Residuals

Storage & Disposal o Same as above

Storage of Aggregate Materials

- o These materials such as ¾ clean gravel, sand, and DOT road blend are stored at 2371 South Ave (Union County Division of Public Works Facility). They are stored in concrete bins, as needed. Used asphalt and concrete material for recycling is stored temporarily in concrete bins and then hauled to a vendors facility for recycling.

Oil/Water Separators

Operation & Maintenance

Sediment Control at Watchung Stables

COUNTY OF UNION STANDARD OPERATING PROCEDURE GOOD HOUSEKEEPING

GOOD HOUSEKEEPING GOALS

- Proper Recycling
- Proper Waste Disposal
- Pollution Prevention
- Street Sweeper Residuals
- Catch Basin Cleaning Residuals
- Storage of Aggregate Materials
- Operation & Maintenance of Oil/Water Separators
- Waste2Water Recycling Treatment System



Introduction and Purpose	This SOP contains the basic practices of good housekeeping to be implemented at maintenance yards including maintenance activities at ancillary operations for the County of Union. The purpose of this SOP is to provide a set of guidelines for the employees of County of Union for Good Housekeeping Practices at their maintenance yards including maintenance yards at ancillary operations.
Scope	This SOP applies to all maintenance yards including maintenance activities at ancillary operations in County of Union.
Standards and Specifications (General)	<ul style="list-style-type: none">• All containers should be properly labeled and marked, and the labels must remain clean and visible.• All containers must be kept in good condition and tightly closed when not in use.• When practical, chemicals, fluids and supplies should be kept indoors.• If containers are stored outside, they must be covered and placed on spill platforms.• Keep storage areas clean and well organized.• Spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.• Absorbent spill clean-up materials must be available in maintenance areas and shall be disposed of properly after use.• Place trash, dirt and other debris in the dumpster.• Collect waste fluids in properly labeled containers and dispose of them properly.• Establish and maintain a recycling program by disposing of properly after use.• Place trash, dirt and other debris in the dumpster.• Collect waste fluids in properly labeled containers and dispose of them properly.• Establish and maintain a recycling program by disposing papers, cans, bottles and trash in designated bins.
Standards and Specifications (Salt and De-icing Material handling)	<ul style="list-style-type: none">• During loading and unloading of salt and de-icing materials, prevent and/or minimize spills. If salt or de-icing materials are spilled, remove the materials using dry cleaning methods. All collected materials shall be either reused or properly discarded.

- Sweeping should be conducted once a week to get rid of dirt and other debris. Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance that the salt and de-icing materials are transported during loading/unloading activities.
- Any materials that are stored outside must be tarped when not actively being used.
- If intern seasonal tarping is being implemented, de-icing materials may be stored outdoors only between October 15th through April 30th.

Spill Response And Reporting

- Conduct clean up of any spill(s) immediately after discovery.
- Spills are to be cleaned using dry cleaning methods only.
- Contact the Capitol County Division of Environmental Health Services at 908-654-9890.

Maintenance and Inspection

- Periodically check for leaks and damaged equipment and make repairs as necessary.
- Perform monthly inspections of all (indoor and outdoor if applicable) storage locations.

Street Sweeping & Disposal

Residual Storage The street sweepings are stored in a bin at 301 Shunpike Road (aka Union County Conservation Center). There are placed on an impervious surface contained between concrete block walls. These materials are then hauled away by a private entity contracted by Union County Department of Public Works.

Catch Basin

Cleaning Residuals

Storage & Disposal o Same as above

Storage of Aggregate

Materials

- o These materials such as ¾ clean gravel, sand, and DOT road blend are stored at 2371 South Ave (Union County Division of Public Works Facility). They are stored in concrete bins, as needed. Used asphalt and concrete material for recycling is stored temporarily in concrete bins and then hauled to a vendors facility for recycling.

Oil/Water Separators

Operation & Maintenance - The Oil/Water separator will be inspected bi-annually. The oil absorption pack shall be inspected and replaced as necessary.

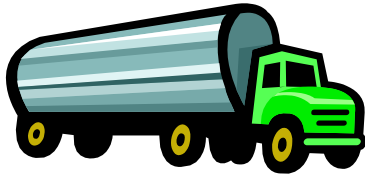
Sediment Control at Watchung Stables

Waste2Water Recycling Treatment System • This equipment shall be operated and maintained in accordance with the manufacturer's Owners' Manual.

County of Union

Standard Operating Procedures

Vehicle and Equipment Fueling



Vehicle & Equipment Fueling Locations

- 1) Scotch Plains Garage
- 2) Ash Brook Golf Course & Maintenance Yard
- 3) Galloping Hill Golf Course & Maint. Yard
- 4) Warinaco Park
- 5) Oak Ridge Golf Course
- 6) Rahway River Park
- 7) Cedar Brook Park
- 8) Echo Lake Park

Introduction and Purpose

Vehicle and equipment fueling procedures and practices are designed to minimize pollution of surface or ground waters. Understanding the procedures for delivering fuel into vehicles, mobile fuel tanks, and storage tanks is critical for this purpose. Safety is always the priority.

Scope

These procedures are to be implemented at all maintenance yards with fueling, including mobile fueling operations.

Standards and Specifications (for vehicle and Equipment Fueling)

- Shut the engine off.
- Ensure that the fuel is the proper type of fuel.
- Absorbent spill clean-up materials and spill kits shall be available in fueling areas and on mobile fueling vehicles and shall be disposed of properly after use.
- Nozzles used in vehicle and equipment fueling shall be equipped with an automatic shut-off to prevent overfill.
- Fuel tanks shall not be "topped off".
- Mobile fueling shall be minimized. Whenever practical, vehicles and equipment shall be transported to the designated fueling area in the maintenance yard.
- Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

Standards and Specifications (for bulk fueling)

- Drip pans or absorbent pads shall be used under all hose and pipe connections and other leak-prone areas during bulk fueling.
- Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel must be within the temporary berms during the loading/unloading of bulk fuels.
- Protect fueling areas with berms and/or dikes to prevent run-on, runoff, and to contain spills.
- A trained employee must always be present to supervise during bulk transfer.

Spill Response

- Conduct clean-ups of any fuel spills immediately after discovery.
- Uncontained spills are to be cleaned using dry cleaning methods only. Spills shall be cleaned up with a dry, absorbent material (e.g., kitty litter, sawdust, etc.) and absorbent materials shall be swept up.
- Collected waste is to be disposed of properly.
- Contact the Union County Bureau of Environmental Enforcement at at 908-654-9730.

Maintenance And Inspection

- Fueling areas and storage tanks shall be inspected monthly.
- Keep an ample supply of spill clean-up material on the site.
- Any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair must be repaired or replaced immediately.

APPENDIX I

INSPECTION

FORMS

Highway Agency Stormwater General Permit Post-Construction Program Design Checklist for Individual Projects

For each question, attach additional sheets as necessary

Highway Agency
Information

Highway Agency: _____
 NJPDES # : NJG _____ PI ID #: _____
 Team Member: _____
 Date: _____ Effective Date of Permit Authorization (EDPA): _____

1. Location of Project

- a. Project Name _____
- b. Highway Agency Project Number (if applicable): _____
- c. Road Name(s) (if applicable): _____
- d. Municipality(ies): _____
- e. County(ies): _____

2. Description (type of project)

- a. New alignment, widening, bridge replacement, intersection improvement, or other (describe): _____
- b. Area of proposed disturbance: _____ acres (include disturbance for easements, on/off ramps, etc. that are part of the project)
- c. Area of proposed additional impervious surface: _____ acres (include proposed additional impervious surface for easements, on/off ramps, etc. that are part of the project)
- d. Discharges to (identify surface water body(ies)): _____

3. Related NJDEP Permits

How much (if any) of the project requires at least one NJDEP permit (stream encroachment permit; freshwater wetlands permit or transition area waiver; CAFRA, coastal wetlands, or waterfront development permit) granted under the following statutes?

Application Number (if available)

Flood Hazard Area Control Act, N.J.S.A. 58:16A-50 et seq. _____
Freshwater Wetlands Protection Act, N.J.S.A. 13:9B-1 et seq. _____
Coastal Area Facility Review Act, N.J.S.A. 13:19-1 et seq. _____
Waterfront and Harbor Facilities Act, N.J.S.A. 12:5-3 _____

Answer (check one): The entire project Part of the project None of the project

4. Compliance with NJDEP Design and Performance Standards (N.J.A.C. 7:8)

a. Nonstructural stormwater management strategies

To the maximum extent practicable, does the project meet the applicable erosion control, groundwater recharge, and stormwater runoff quantity and quality standards at N.J.A.C. 7:8-5.4 and 5.5 by incorporating nonstructural stormwater management strategies at N.J.A.C. 7:8-5.3 into the design? Y () N ()

Also see question #4.j in regard to the Low Impact Development Checklist.

b. Threatened and endangered species

Are the project's stormwater management measures designed to avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly *Helonias bullata* (swamp pink) and/or *Clemmys muhlenbergi* (bog turtle)? Y () N ()

c. Exemption for certain utility line and public pedestrian access projects

How much (if any) of the project is exempt under N.J.A.C. 7:8-5.2(d) from the groundwater recharge and stormwater runoff quantity and quality requirements at N.J.A.C. 7:8-5.4 and 5.5? Y () N () If "yes," check whichever of the following are applicable:

The entire project Part of the project None of the project

If you checked "The entire project" or "Part of the project," check whichever of the following are applicable:

Underground utility line Aboveground utility line Public pedestrian access

If you checked "The entire project," skip questions #4.d, #4.f, #4.g, and #4.h.

d. Waiver for certain roadway, railroad, and public pedestrian access projects

Are you claiming, for the enlargement (widening) of an existing public roadway or railroad or the construction or enlargement of a public pedestrian access, a waiver under N.J.A.C. 7:8-5.2(e) from strict compliance with the groundwater recharge and stormwater runoff quantity and quality requirements at N.J.A.C. 7:8-5.4 and 5.5? Y () N () If "yes":

- Check whichever of the following are applicable:
 Enlargement of existing public roadway or railroad Public pedestrian access

- Attach written documentation making the demonstration required under N.J.A.C. 7:8-5.2(e), unless “The entire project” or “Part of the project” is checked under question #3, and you have submitted or will submit this documentation to the NJDEP to obtain the related NJDEP permit(s).

- Check whether the waiver is for:

The entire project Part of the project None of the project

If you checked “The entire project,” skip questions #4.f, #4.g, and #4.h.

e. Erosion control

Is the project in its post-construction condition designed to meet the erosion control standards established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules? Y () N ()

Does the project have a soil erosion and sediment control plan certified under that Act and those rules? Y () N () If “no,” please explain: _____

f. Groundwater recharge

Under N.J.A.C. 7:8-5.4(a)2ii, how much (if any) of the project is outside the scope of the groundwater recharge requirement at N.J.A.C. 7:8-5.4(a)2i?

Answer (check one): The entire project Part of the project None of the project

If you checked “The entire project” or “Part of the project,” check whichever of the following are applicable:

Urban redevelopment area High pollutant loading area Industrial “source material”

If you checked “Part of the project” or “None of the project,” is the project designed to meet the groundwater recharge requirement at N.J.A.C. 7:8-5.4(a)2i? Y () N () Also see question 4.j.

Will there be recharge of any stormwater from high pollutant loading areas, or of industrial stormwater exposed to “source material”? Y () N ()

Is the project designed to avoid adverse hydraulic impacts on the groundwater table? Y () N ()

g. Stormwater runoff quantity

Will the post-construction stormwater runoff flow only into tidal waters where the increased volume of stormwater runoff will not increase flood damages below the point of discharge? Y () N ()

If “no,” is the project designed to meet the stormwater runoff quantity standard at N.J.A.C. 7:8-5.4(a)3? Y () N () Also see question 4.j.

h. Stormwater runoff quality

Is the project subject to the requirement at N.J.A.C. 7:8-5.5(a) for 80 percent total suspended solids (TSS) reduction? Y () N ()

If “yes,” is the project designed to meet this requirement? Y () N () Also see question 4.j.

If “no,” check whichever of the following are applicable:

Less than ¼ acre of additional impervious surface NJPDES-based exemption

Is the project designed to meet the nutrient reduction standard at N.J.A.C. 7:8-5.5(e)? Y () N ()

Are the project's stormwater management measures designed to prevent any increase in stormwater runoff to waters classified as FW1? Y () N () N/A () (N/A if there is no stormwater runoff from the project to FW1 waters)

Does the project propose any encroachment within a special water resources protection area established under N.J.A.C. 7:8-5.5(h) to protect Category One waters? Y () N () Also see question 4.j.

If "yes," has the NJDEP approved the proposed encroachment? Y () N () Please explain if the NJDEP has not approved the proposed encroachment:

i. Other special circumstances

Are there special circumstances besides those noted above (e.g., alternative design and performance standards recognized under N.J.A.C. 7:8-5.1(b), and hardship waivers under N.J.A.C. 7:13-4.8) that result in one or more of the design and performance standards at N.J.A.C. 7:8-5 not being applicable to all or part of the project? Y () N ()

If "yes," describe the circumstances and identify the standard(s) that are not applicable:

j. Calculations and stormwater engineering report

Was stormwater runoff calculated in accordance with N.J.A.C. 7:8-5.6? Y () N ()

Attach a stormwater engineering report that includes the following information (unless the Exception below applies):

- A copy of Parts 1, 3, and 4 of the Low Impact Development Checklist (see Appendix A of the New Jersey Stormwater Best Management Practices Manual)
- A copy of a USGS topographical map(s), 7.5 minute quadrangle series, showing the project location and its HUC-14 watershed(s), and indicating any special water resources protection area(s) established under N.J.A.C. 7:8-5.5(h)
- Proof that the applicable groundwater recharge and stormwater runoff quantity and quality standards at N.J.A.C. 7:8-5.4 and 5.5 (or applicable alternative standards recognized under N.J.A.C. 7:8-5.1(b)) are met. This proof shall include complete printouts of all calculations (including detention, retention, and infiltration calculations for all basins), and shall compare existing and proposed recharge and discharge rates. The proof shall clearly explain how the attached calculations demonstrate compliance with the applicable standards. If the requirement at N.J.A.C. 7:8-5.5(a) for 80 percent TSS reduction is applicable, the proof shall detail how TSS reduction is achieved.

Exception: If "The entire project" is checked under question #3, have you submitted or will you submit the above information to the NJDEP to obtain the related NJDEP permit(s)? Y () N ()

If "yes," it is not necessary to attach a stormwater engineering report.

k. Structural stormwater management

Is the project designed to meet the applicable standards for structural stormwater management measures at N.J.A.C. 7:8-5.7? Y () N ()

l. Maintenance

Has the design engineer prepared for the project the maintenance plan required by N.J.A.C. 7:8-5.8? Y () N ()

If "yes," attach the maintenance plan unless "The entire project" or "Part of the project" is checked under question #3, and you have submitted or will submit the maintenance plan for the entire project to the NJDEP to obtain the related NJDEP permit(s).

5. Compliance with NJDEP Design Standard for Storm Drain Inlets

Does the project include installation of any storm drain inlets? Y () N ()

If “yes,” is the project designed to comply with the standard set forth in Attachment C of the permit to control passage of solid and floatable materials? Y () N ()

Attach a list of any storm drain inlets in the project that have hydraulic performance exemptions.

Are you claiming any alternative device exemptions or historic place exemptions for any of the storm drain inlets in this project? Y () N () If “yes,” please explain:

Illicit Connection Inspection Report Form

Highway Agency
Information

Highway Agency: _____

NJPDES # :NJG_____PI ID #: _____

Team Member: _____

Date:_____ Effective Date of Permit Authorization (EDPA):_____

Outfall #: _____ Location: _____

Receiving Waterbody: _____

1. Is there a dry weather flow? Y () N ()
2. If "YES", what is the outfall flow estimate? _____ gpm
(flow sample should be kept for further testing, and this form will need to be submitted with the Annual Report and Certification)
3. Are there any indications of an intermittent flow? Y () N ()
4. If you answered "**NO**" to BOTH question #1 and #3, there is probably not an illicit connection and you can skip to question #7.
(NOTE: This form **does not** need to be submitted to the Department, but should be kept with your SPPP.)

If you answered "**YES**" to either question, please continue on to question #5.

(NOTE: This form will need to be submitted to the Department with the Annual Report and Certification.)

5. PHYSICAL OBSERVATIONS:

(a) **ODOR:** none sewage sulfide oil gas rancid/sour other: _____

(b) **COLOR:** none yellow brown green red gray other: _____

(c) **TURBIDITY:** none cloudy opaque

(d) **FLOATABLES:** none petroleum sheen sewage other: _____

(e) **DEPOSITS/STAINS:** none sediment oily other: _____

(f) **VEGETATION CONDITIONS:** normal excessive growth inhibited growth

(g) DAMAGE TO OUTFALL STRUCTURES:

IDENTIFY STRUCTURE: _____

DAMAGE: none concrete spalling/cracking peeling paint

metal corrosion other damage: _____

6. ANALYSES OF OUTFALL FLOW SAMPLE:

* field calibrate instruments in accordance with manufacturer's instructions prior to testing.

(a) **DETERGENTS:** _____ mg/L

(if sample is greater than 0.06 mg/L, the sample is contaminated with detergents [which may be from sanitary wastewater or other sources]. Further testing is required and this outfall should be given the highest priority.)

(if the sample is not greater than 0.06 mg/L and it does not show physical characteristics of sanitary wastewater [e.g., odor, floatables, and/or color] it is unlikely that it is from sanitary wastewater sources, yet there may still be an illicit connection of industrial wastewater, rinse water, backwash or cooling water. Skip to question #6c.)

(b) **AMMONIA (as N) TO POTASSIUM RATIO:** _____

(if the Ammonia to Potassium Ratio is greater than 0.6:1, then it is likely that the pollutant is sanitary sewage)

(if the Ammonia to Potassium Ratio is less than or equal to 0.06:1, then the pollutant is from another wastewater source.)

(c) **FLUORIDE:** _____mg/L

(if the fluoride levels are between 1.0 and 2.5 mg/L, then the flow is most likely from fluoride treated potable water.)

(if the sample tests below a detection limit of 0.1 mg/L for fluoride, it is likely to be from groundwater infiltration, springs or streams. In some cases, however, it is possible that the discharge could originate from an onsite well used for industrial cooling water which will test non-detect for both detergents and fluoride. To differentiate between these cooling water discharges and ground water infiltration, you will have to rely on temperature.)

(d) **TEMPERATURE:** _____°F

(if the temperature of the sample is over 70°F, it is most likely cooling water)

(if the temperature of the sample is under 70°F, it is most likely from ground water infiltration)

7. Is there a suspected illicit connection? Y () N ()

If "**YES**", what is the suspected source? _____

If "**NO**", skip to signature block on the bottom of this page.

8. Has the investigation of the suspected illicit connection been completed?

Y () N ()

If "**YES**", proceed to question #9.

If "**NO**", skip to signature block on the bottom of this page.

9. Was the source of the illicit connection found? Y () N ()

If "**YES**", identify the source (including whether source is from Highway Agency or another entity). _____

What plan of action will follow to eliminate the illicit connection or report the illicit connection to the NJDEP?

Resolution: _____

If "**NO**", complete the Closeout Investigation Form and attach it to this Illicit Connection Inspection Report Form.

Inspector's Name: _____

Title: _____

Signature: _____

Date: _____

If there is a dry weather flow or evidence of an intermittent flow, be sure to include this form with your Annual Report and Certification.

Closeout Investigation Form

Highway Agency
Information

Highway Agency: _____

NJPDES # :NJG _____ PI ID #: _____

Team Member: _____

Date: _____ Effective Date of Permit Authorization (EDPA): _____

Outfall #: _____ Location: _____

Receiving Waterbody: _____

Basis for Submittal:

- A non-stormwater discharge was found, but no source was located within six months.
- An intermittent non-stormwater discharge was observed, and three unsuccessful investigations were conducted to investigate the discharge while it was flowing.
- An illicit connection was found to emanate from an entity other than the Highway Agency.

Describe each phase of your investigation, including dates. Attach additional pages as necessary:

Inspector's Name: _____

Title: _____

Signature: _____

Date: _____

Complete and attach this form to the appropriate Illicit Connection Inspection Report Form and submit with the annual certification.

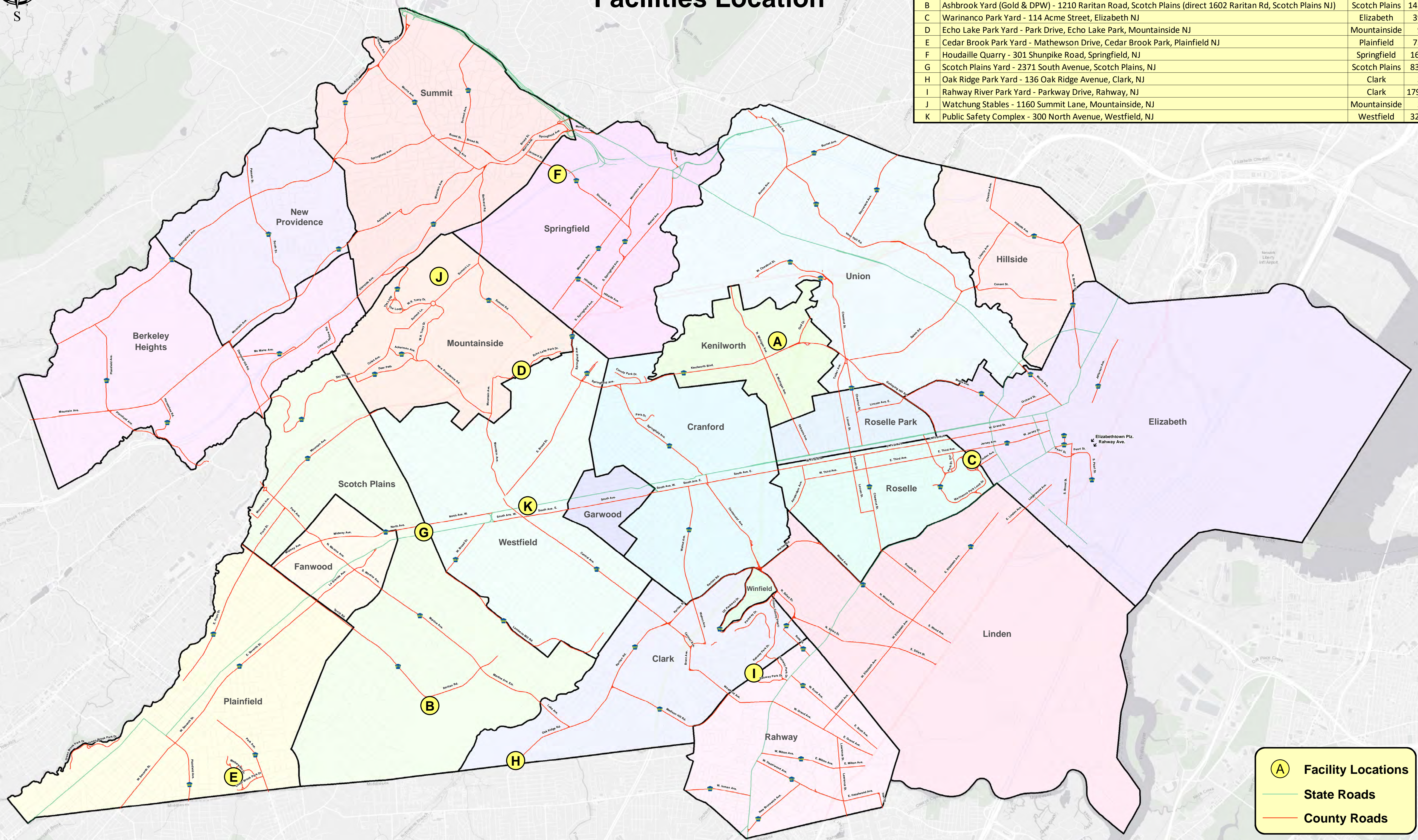
APPENDIX J

LOCATION MAPS

Union County Highway Agency Stormwater Facilities Map Facilities Location



Facility Locations				
	Location	Municipality	Block	Lot
A	Galloping Hill Yard (Golf & DPW) - 21 North 31st Street, Kenilworth NJ	Kenilworth	184	3.01
B	Ashbrook Yard (Gold & DPW) - 1210 Raritan Road, Scotch Plains (direct 1602 Raritan Rd, Scotch Plains NJ)	Scotch Plains	14201	1
C	Warinanco Park Yard - 114 Acme Street, Elizabeth NJ	Elizabeth	392	32
D	Echo Lake Park Yard - Park Drive, Echo Lake Park, Mountainside NJ	Mountainside	9	2.01
E	Cedar Brook Park Yard - Mathewson Drive, Cedar Brook Park, Plainfield NJ	Plainfield	733	22
F	Houdaille Quarry - 301 Shunpike Road, Springfield, NJ	Springfield	1603	1
G	Scotch Plains Yard - 2371 South Avenue, Scotch Plains, NJ	Scotch Plains	8302	1
H	Oak Ridge Park Yard - 136 Oak Ridge Avenue, Clark, NJ	Clark	3	1
I	Rahway River Park Yard - Parkway Drive, Rahway, NJ	Clark	179.01	48
J	Watchung Stables - 1160 Summit Lane, Mountainside, NJ	Mountainside	2	4
K	Public Safety Complex - 300 North Avenue, Westfield, NJ	Westfield	3202	4



(A) Facility Locations

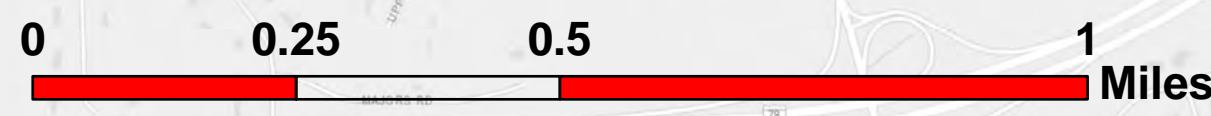
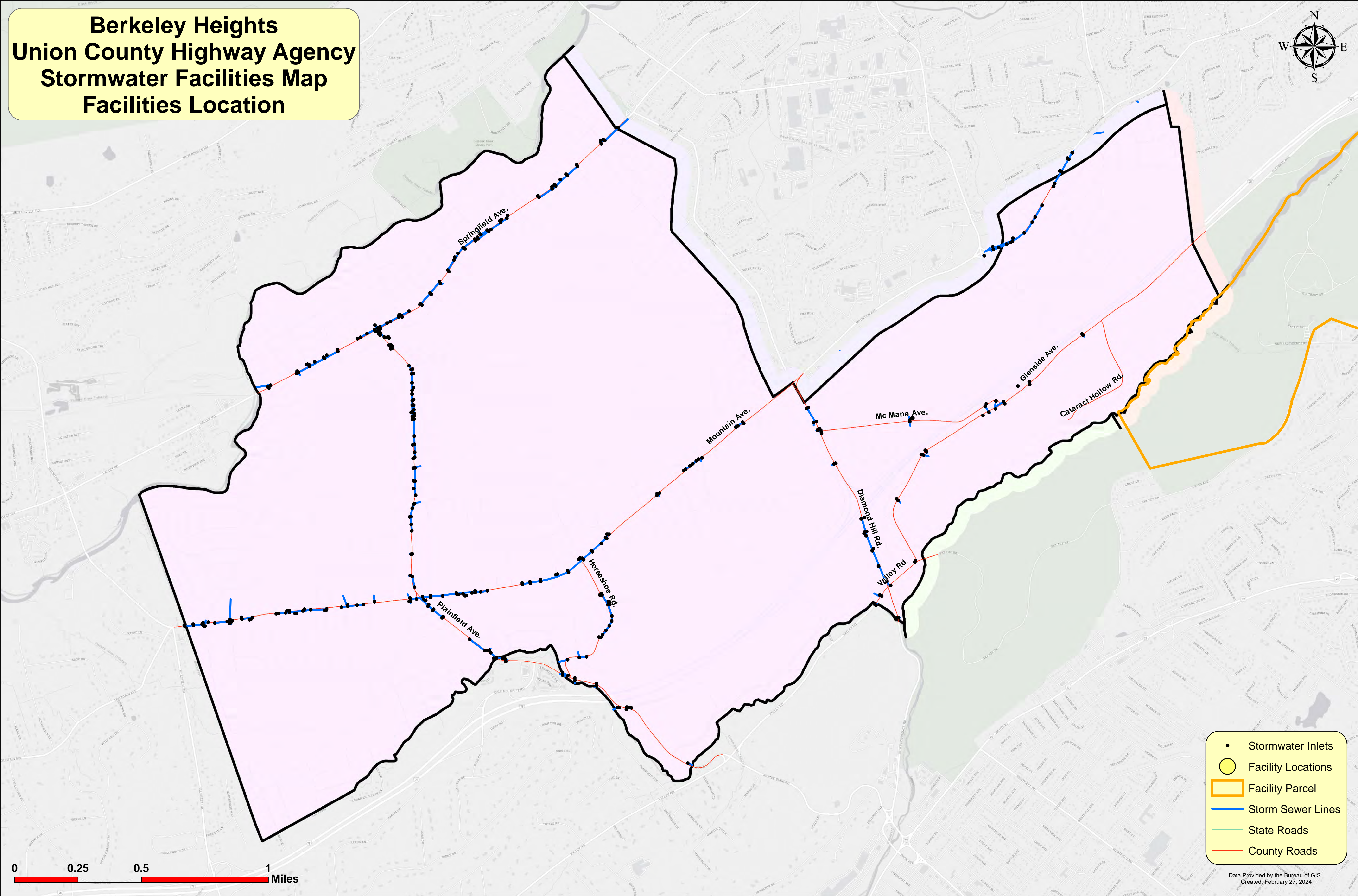
— State Roads

— County Roads



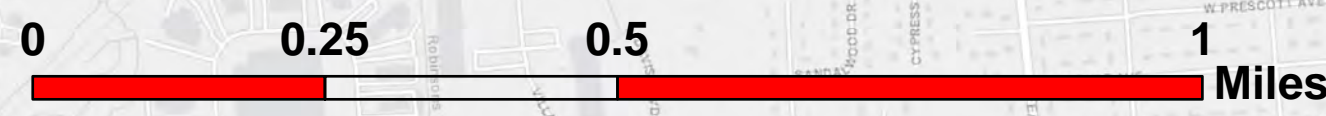
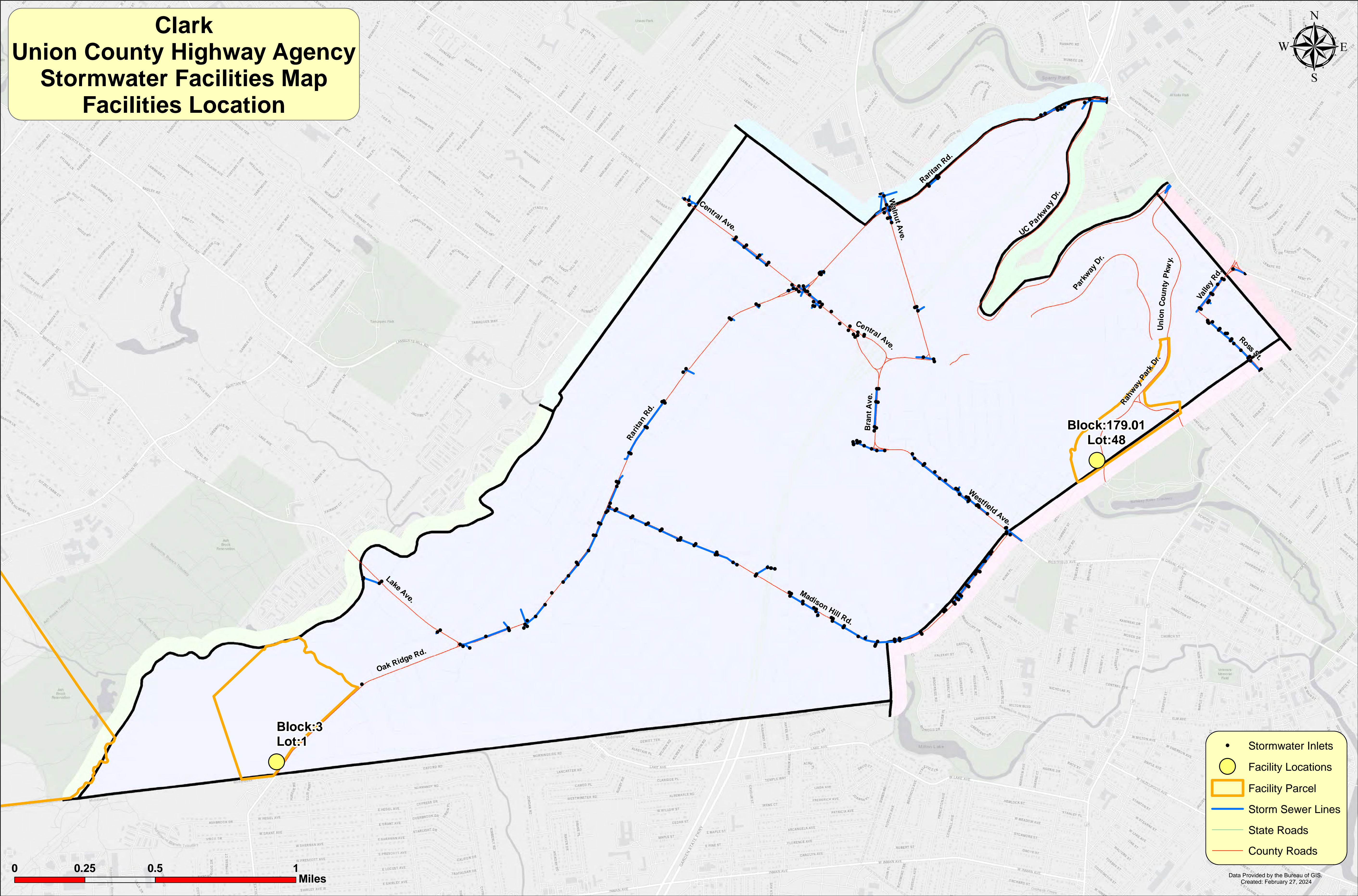
Map Number: 022702
Data Provided by the Bureau of GIS.
Created: February 27, 2024

Berkeley Heights Union County Highway Agency Stormwater Facilities Map Facilities Location



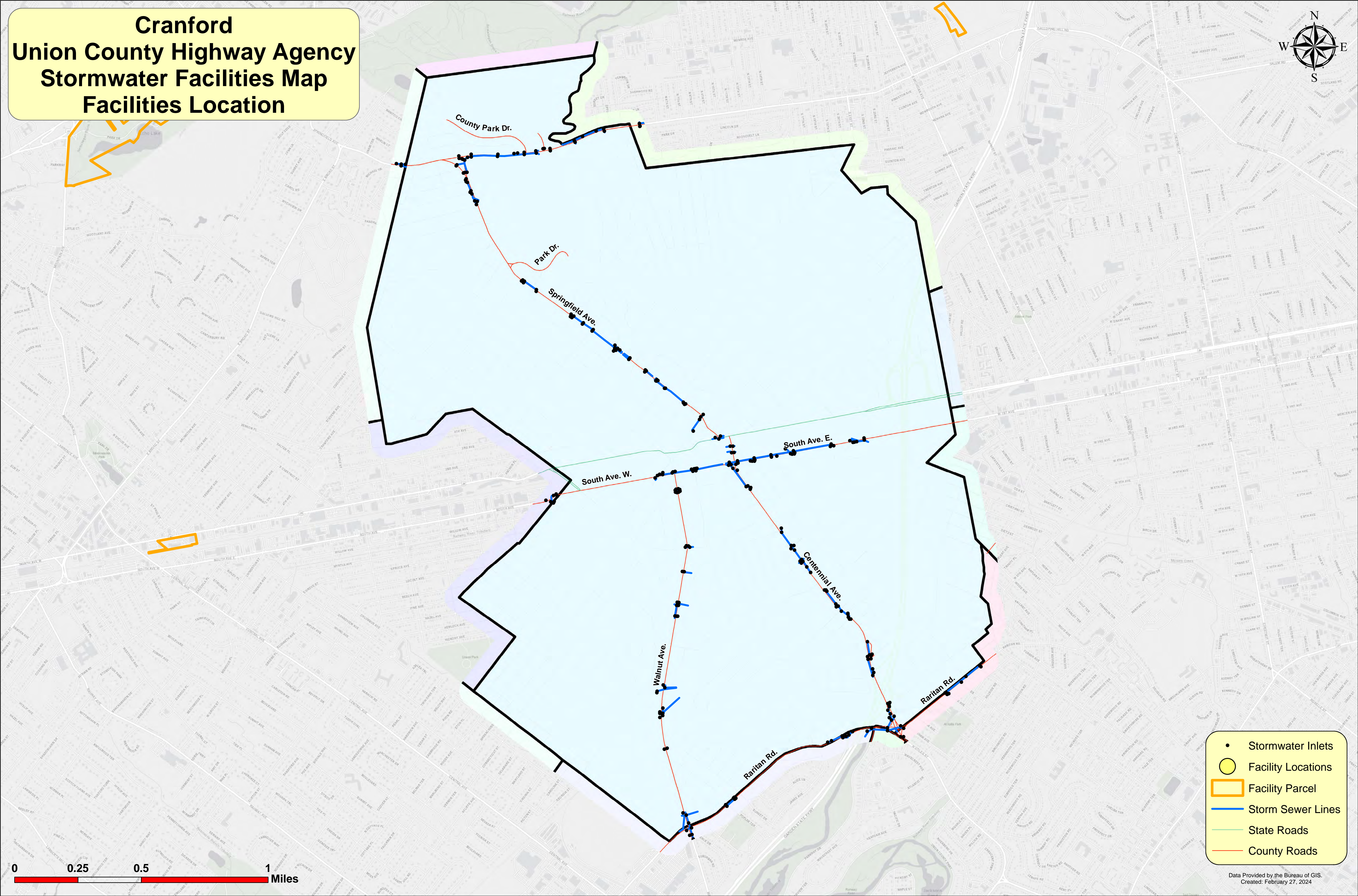
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

Clark Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

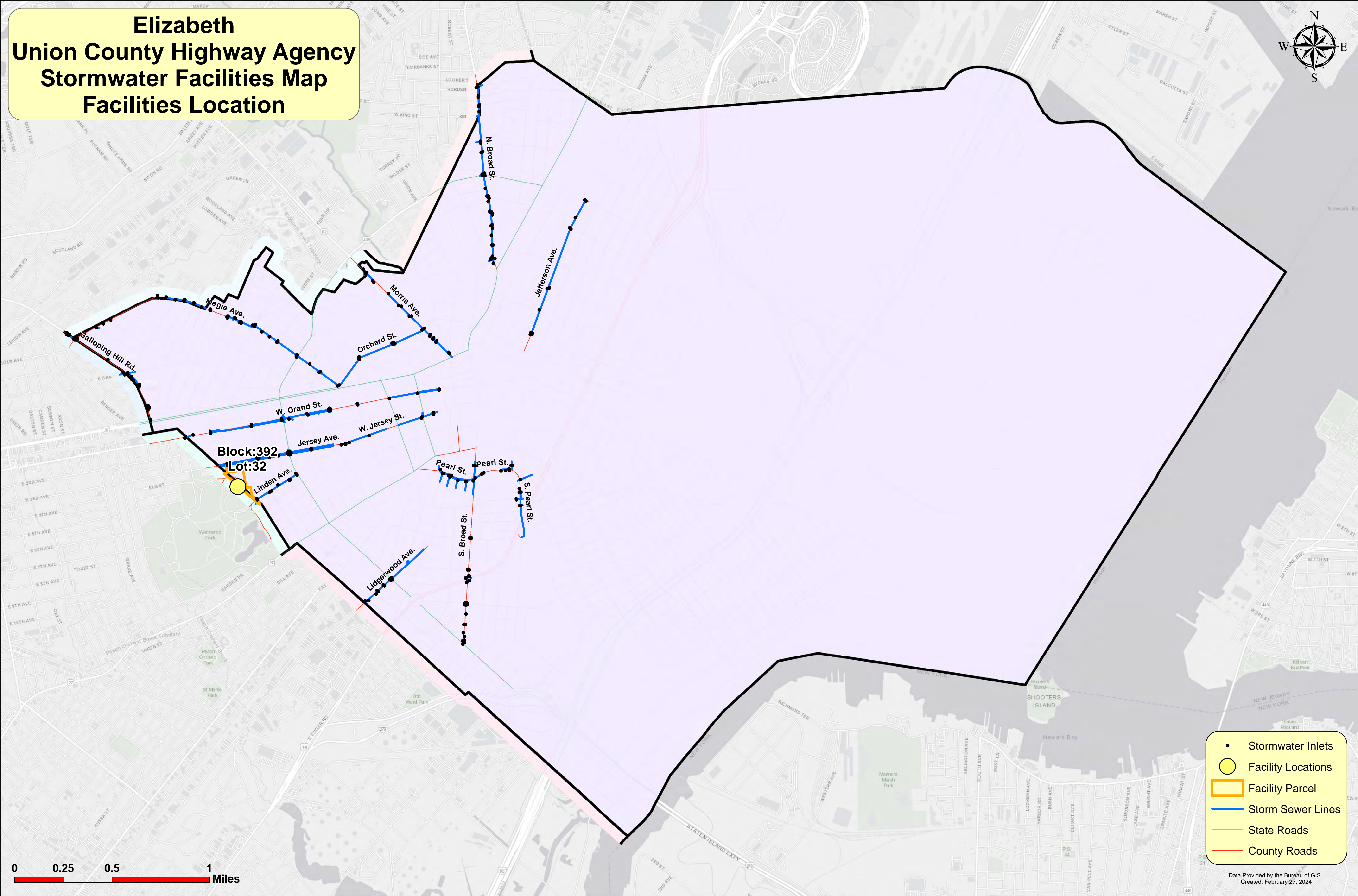
Cranford Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

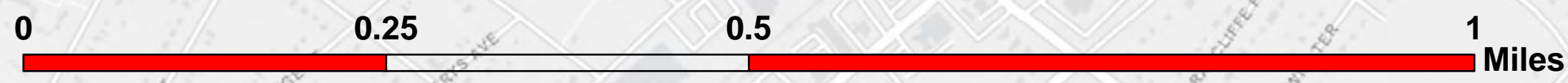
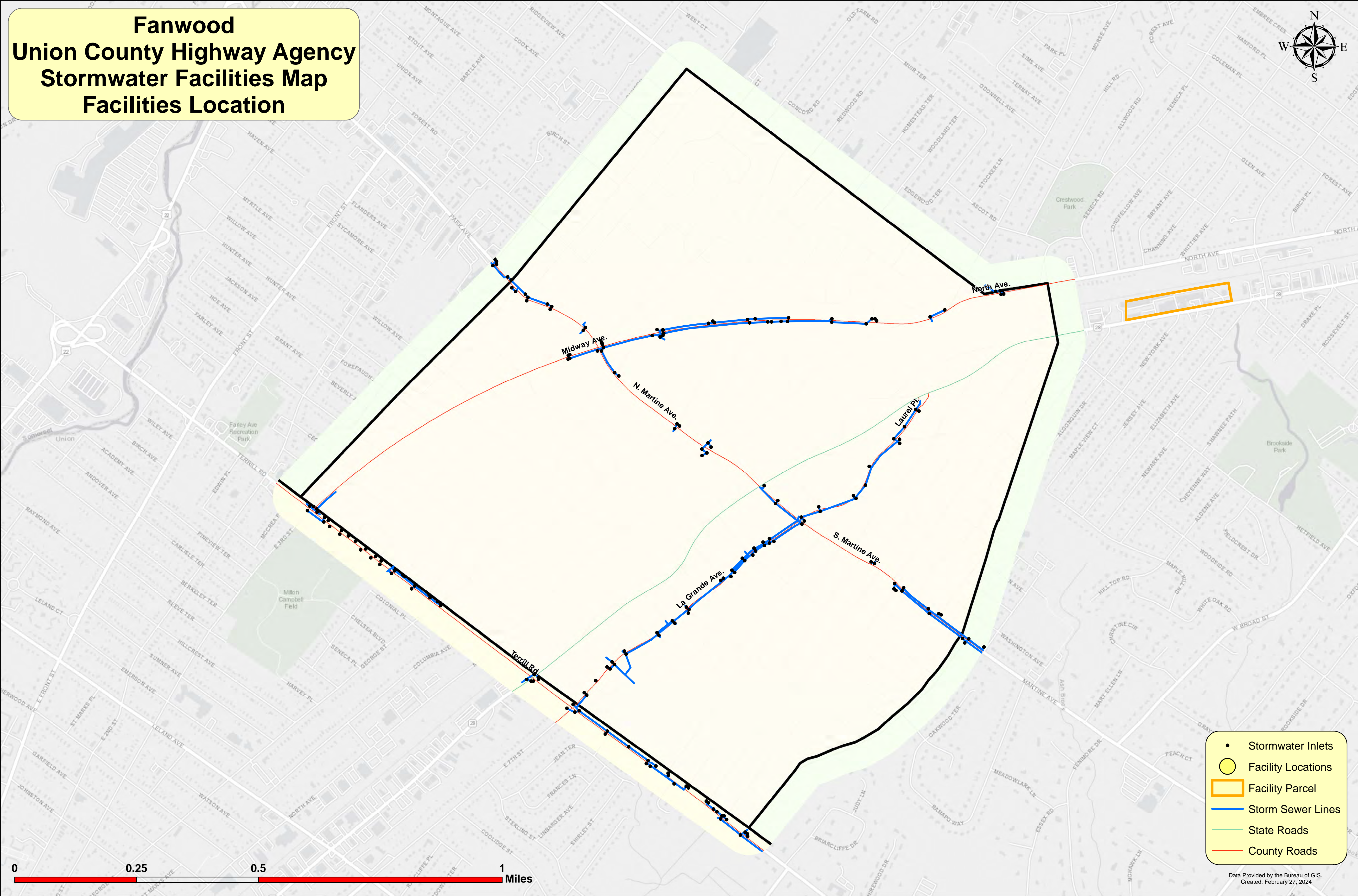
Elizabeth Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

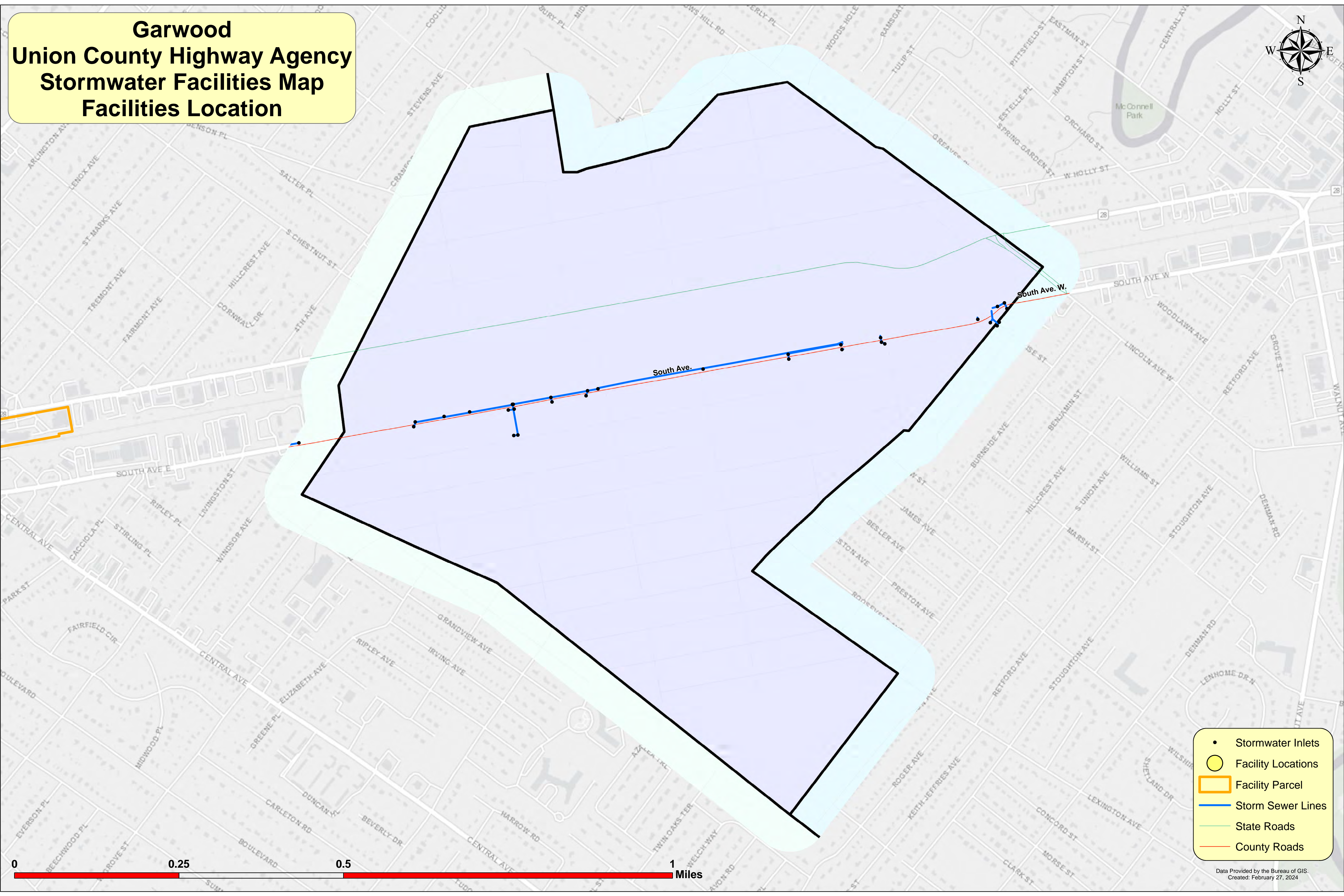


Fanwood Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

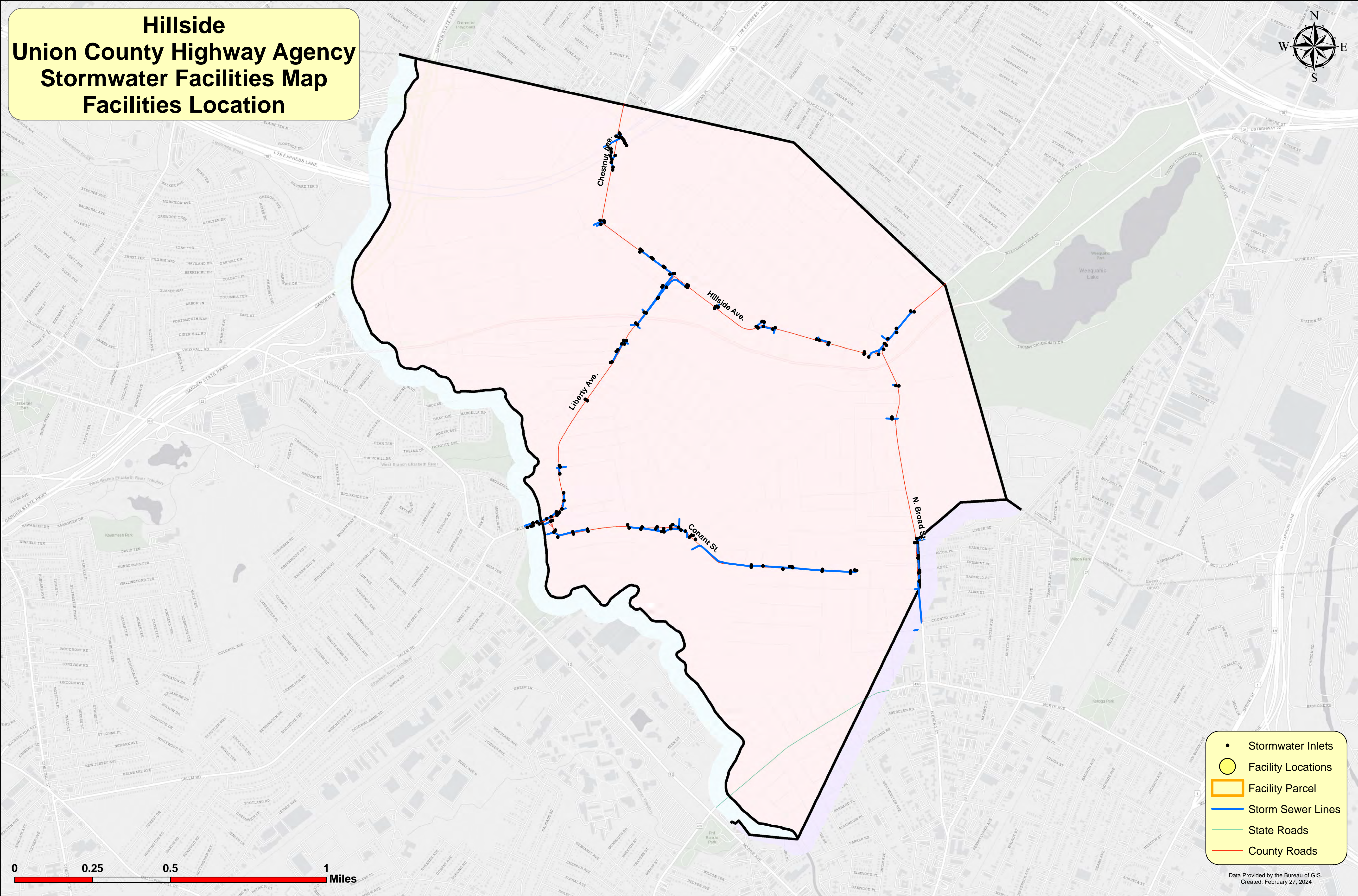
Garwood Union County Highway Agency Stormwater Facilities Map Facilities Location



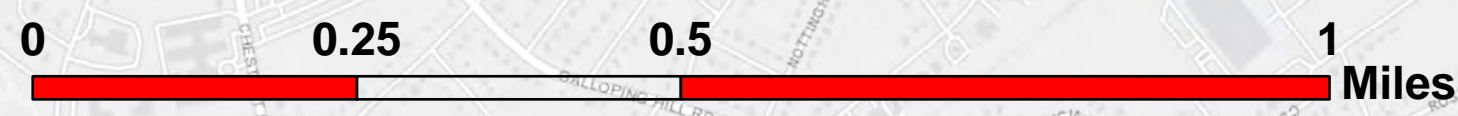
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

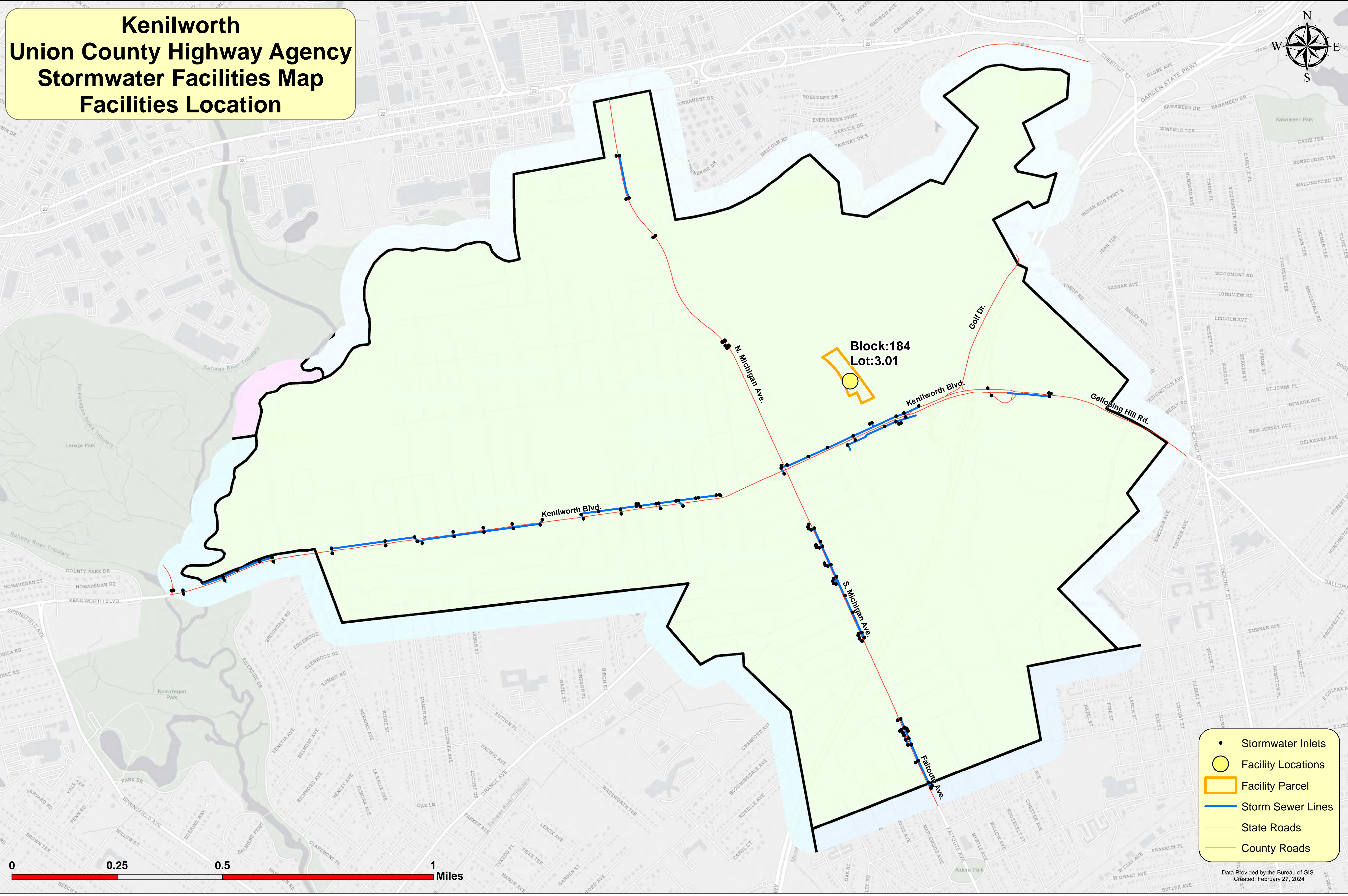
Hillside Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

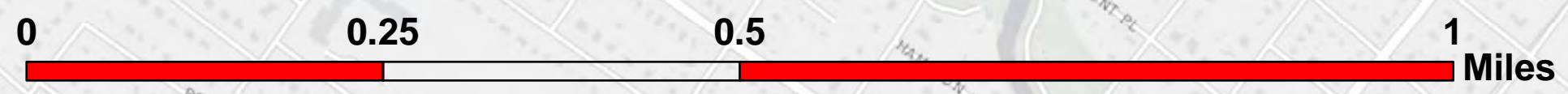


Kenilworth Union County Highway Agency Stormwater Facilities Map Facilities Location

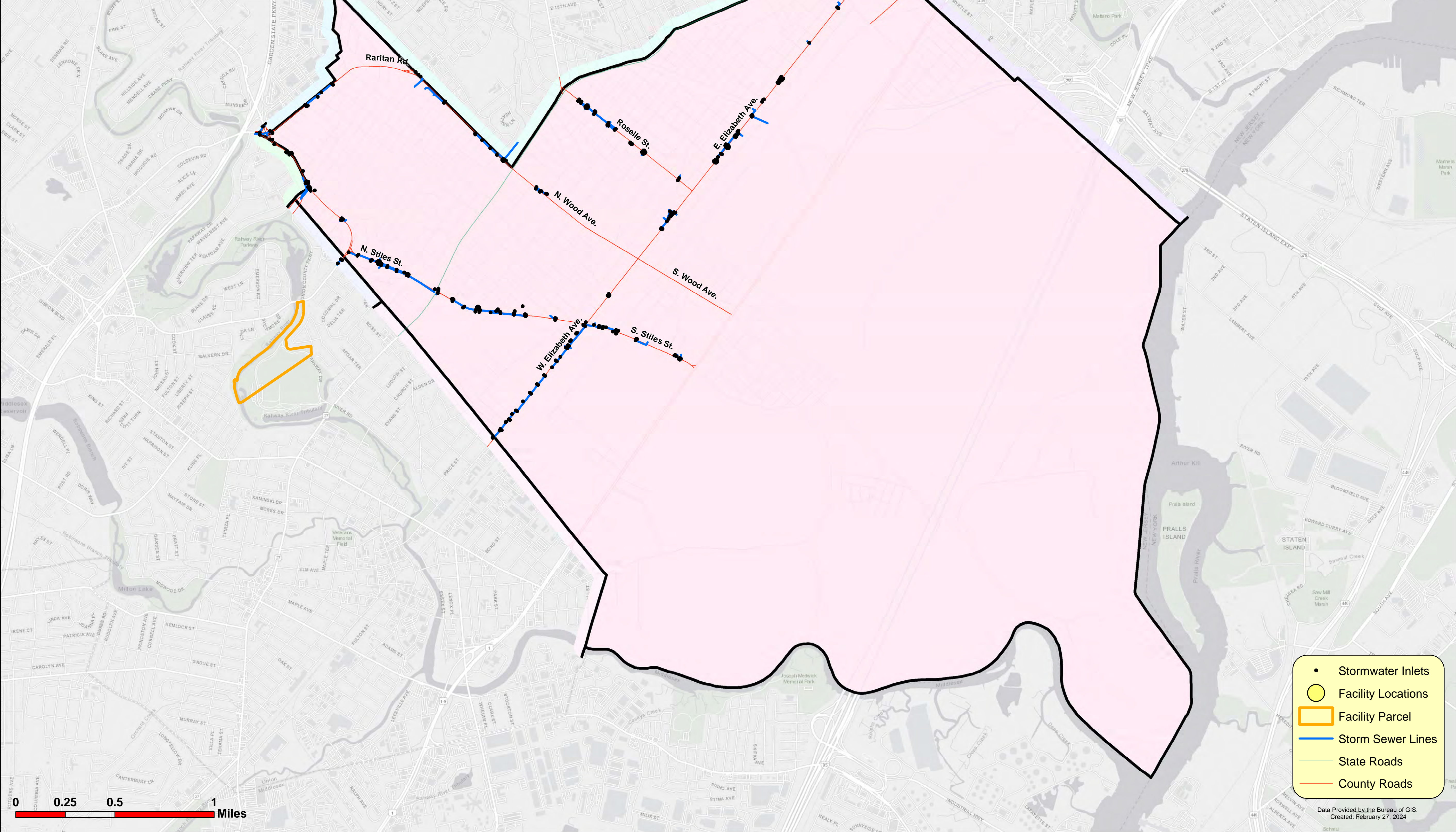


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Lot:3.01

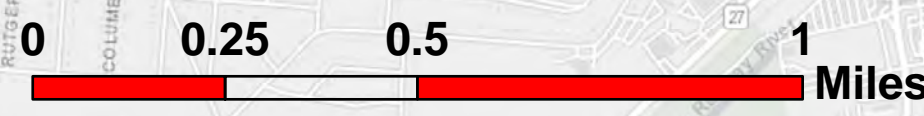
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



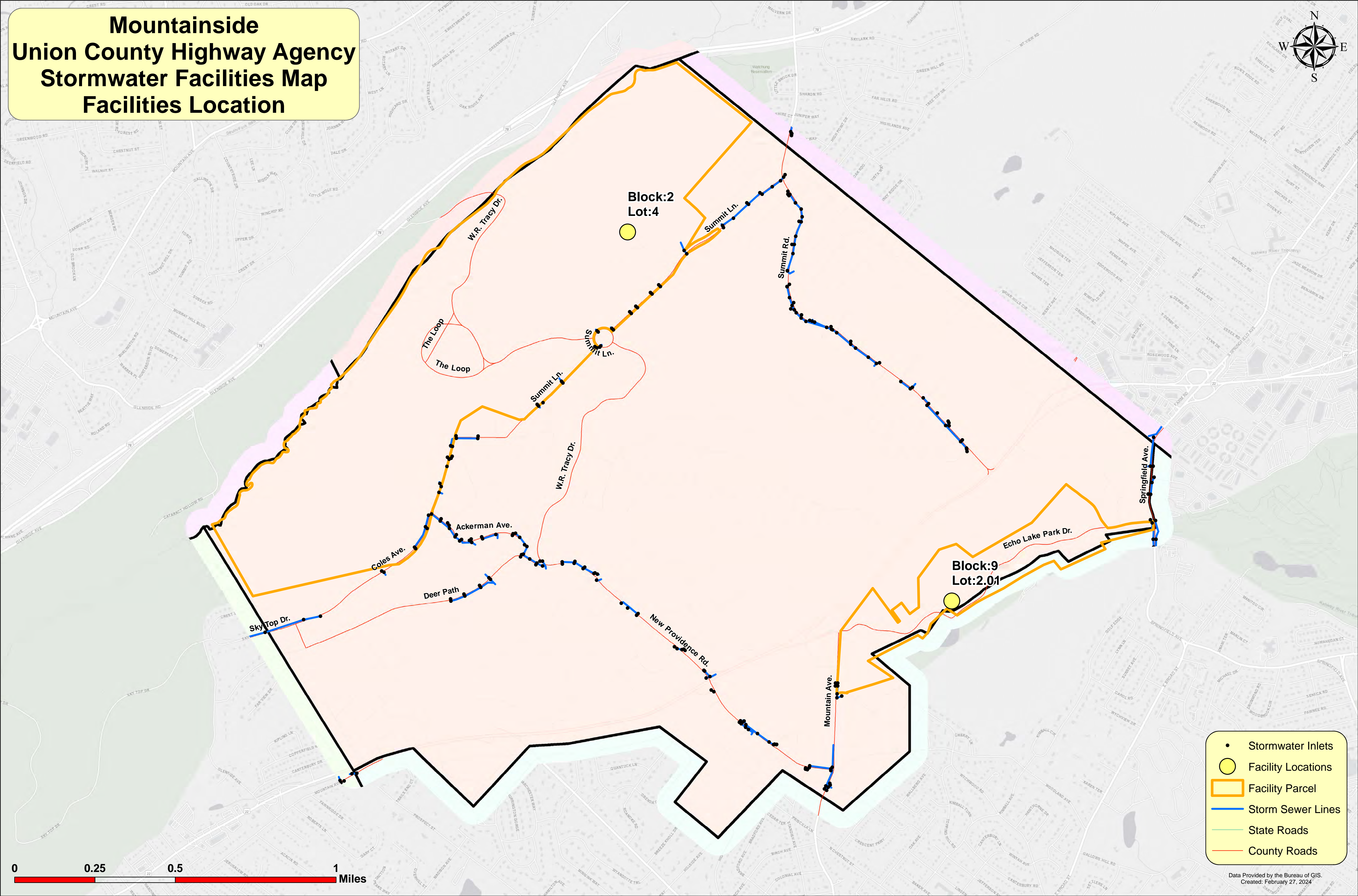
Linden Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

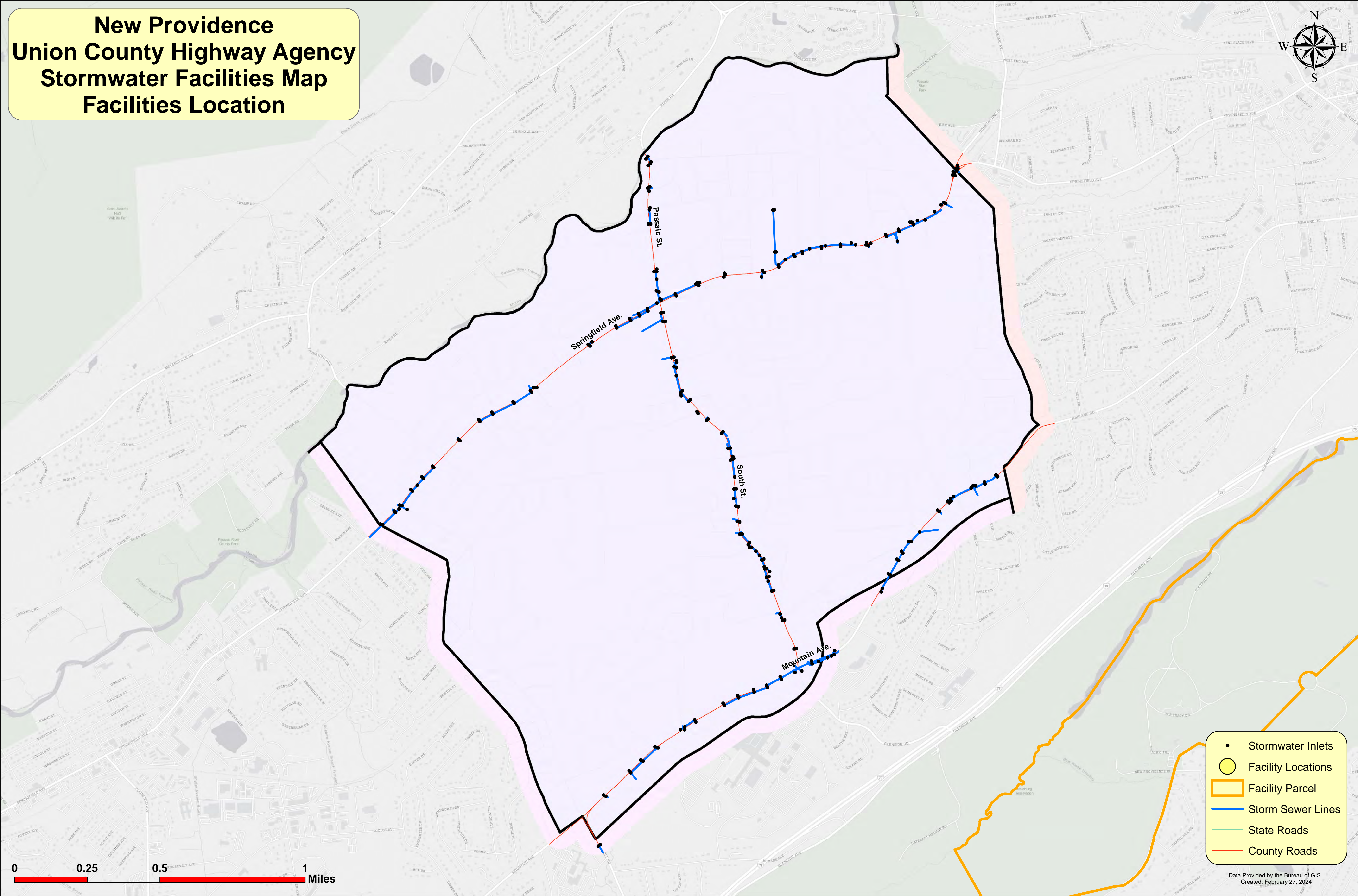


Mountainside Union County Highway Agency Stormwater Facilities Map Facilities Location

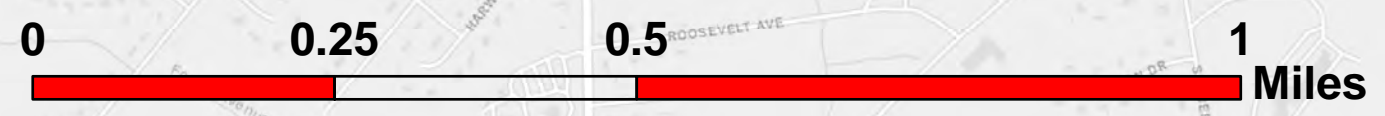


- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

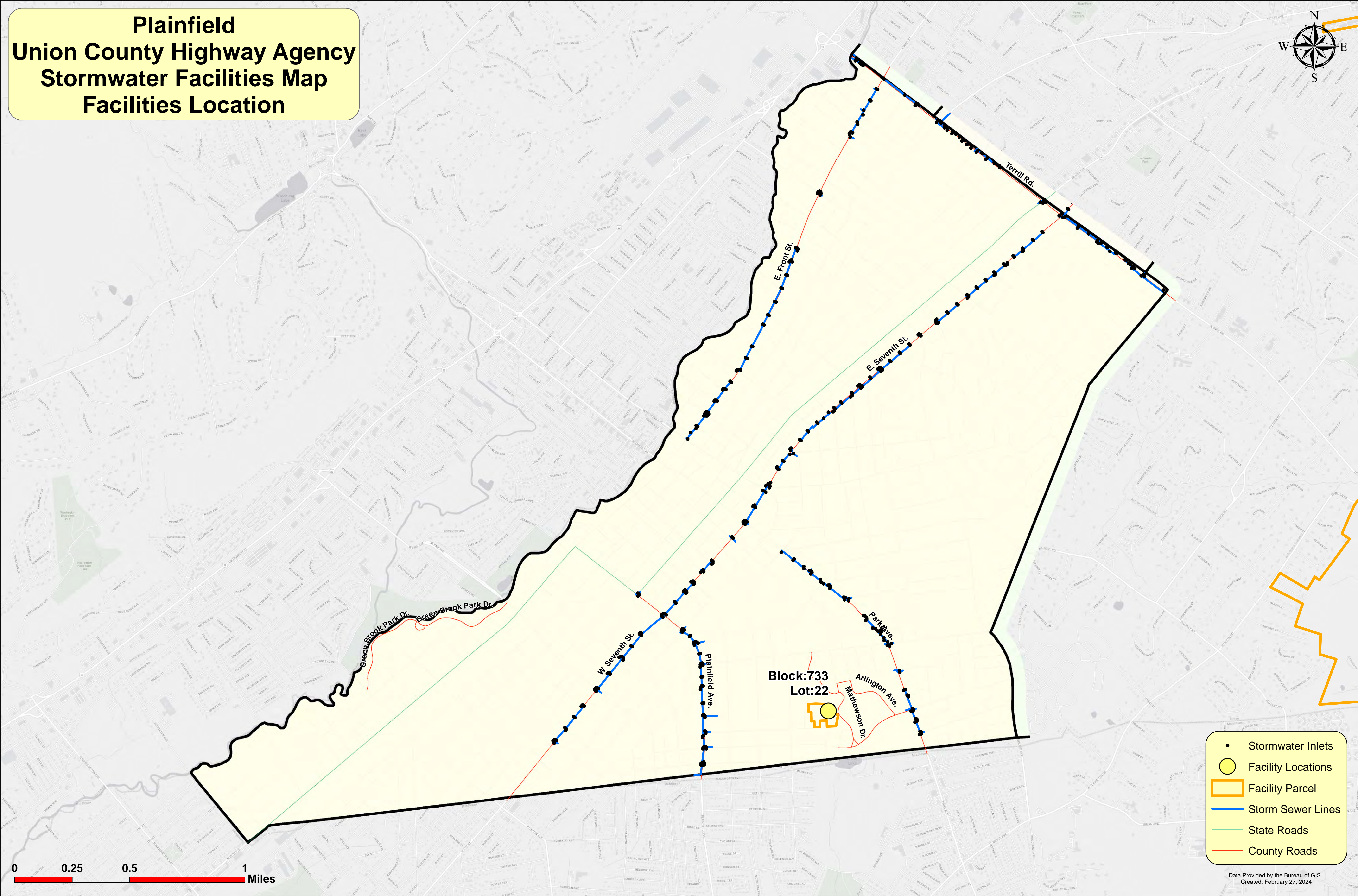
New Providence Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



Plainfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

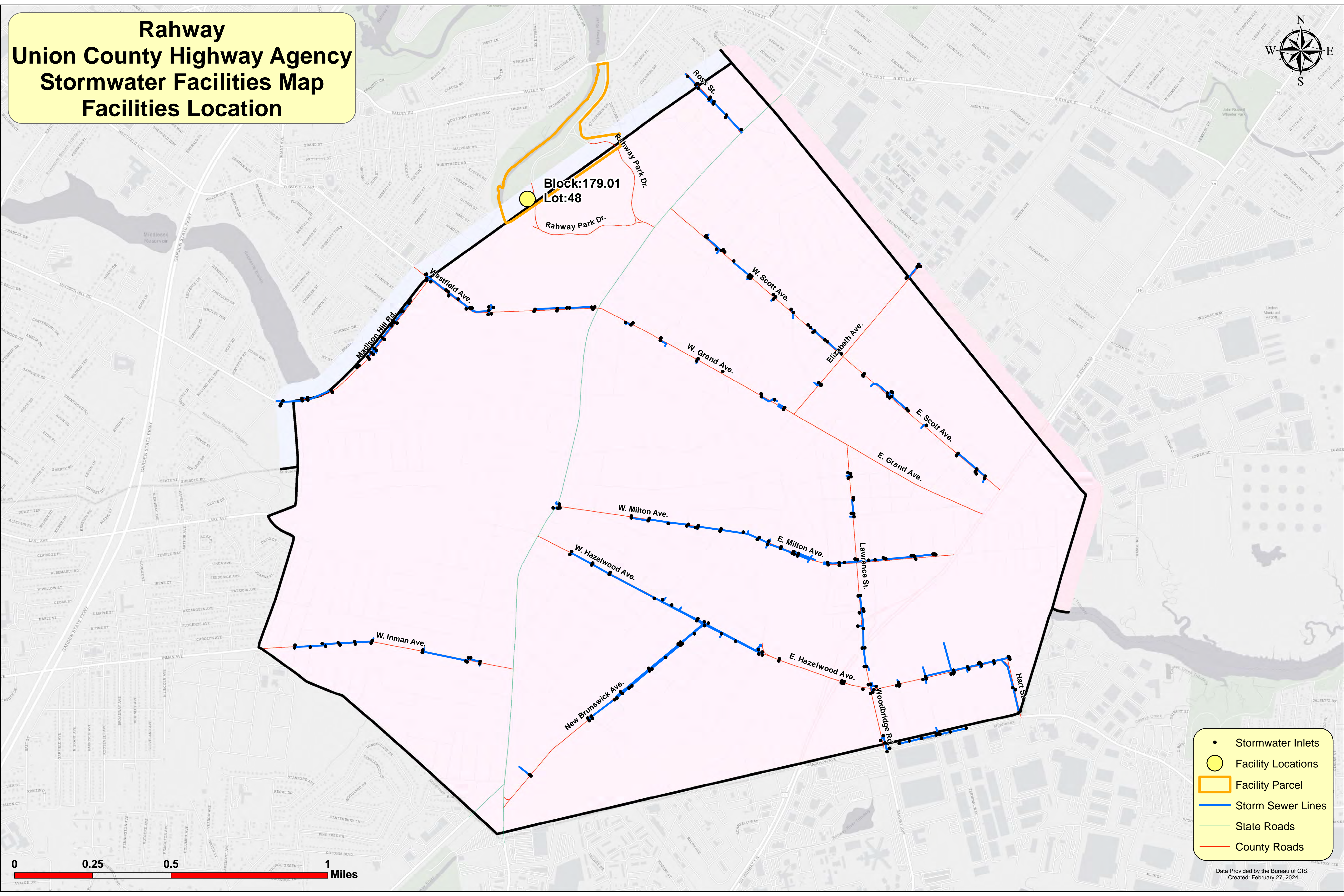
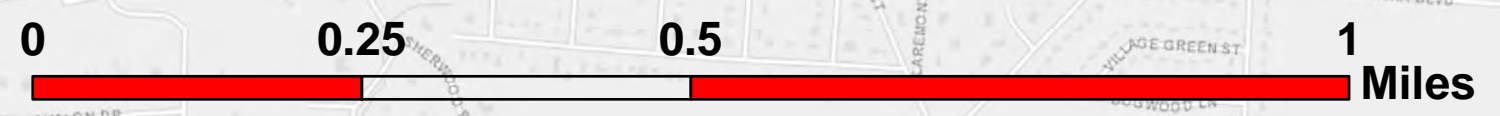


Rahway Union County Highway Agency Stormwater Facilities Map Facilities Location

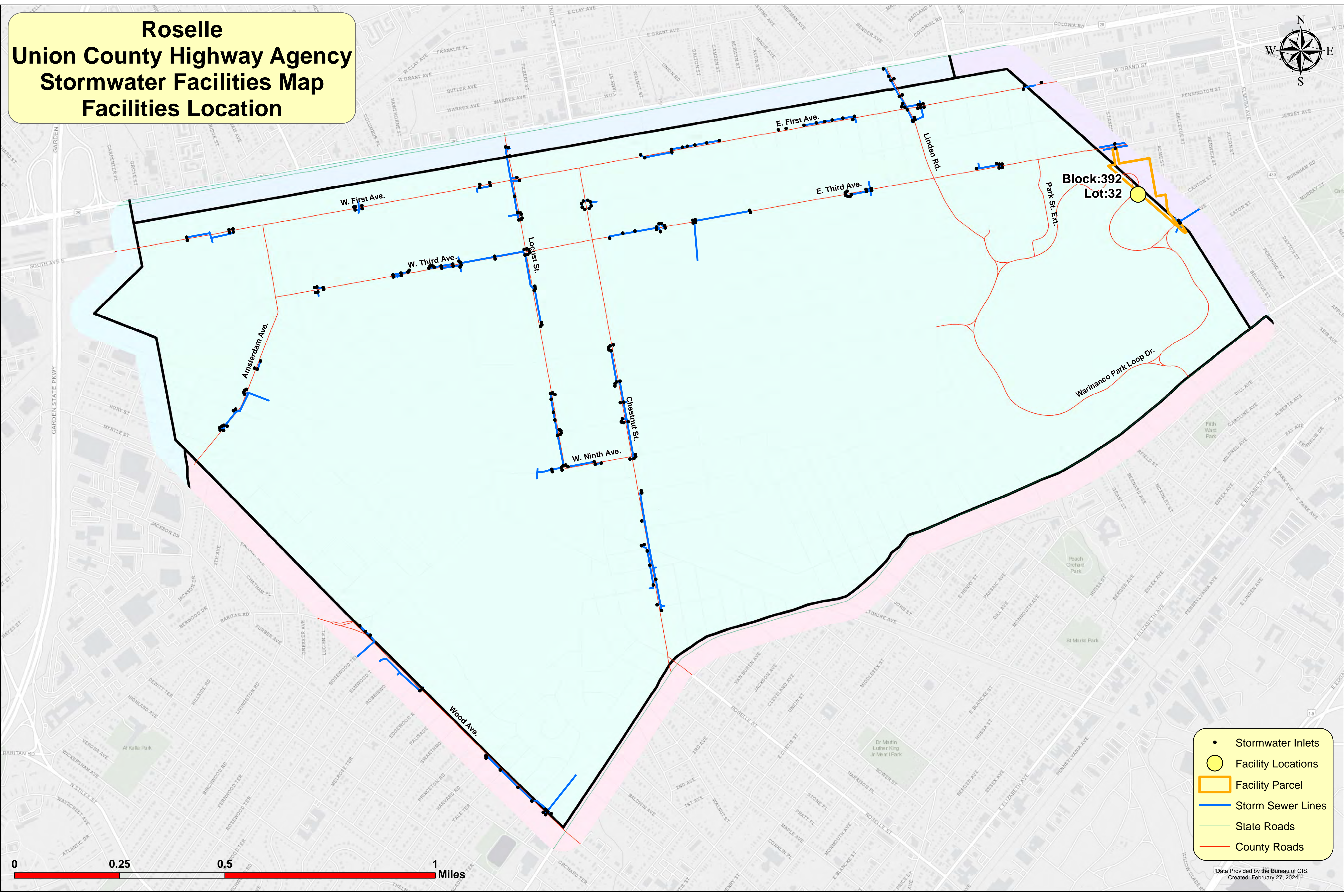


Block:179.01
Lot:48
Rahway Park Dr.

- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



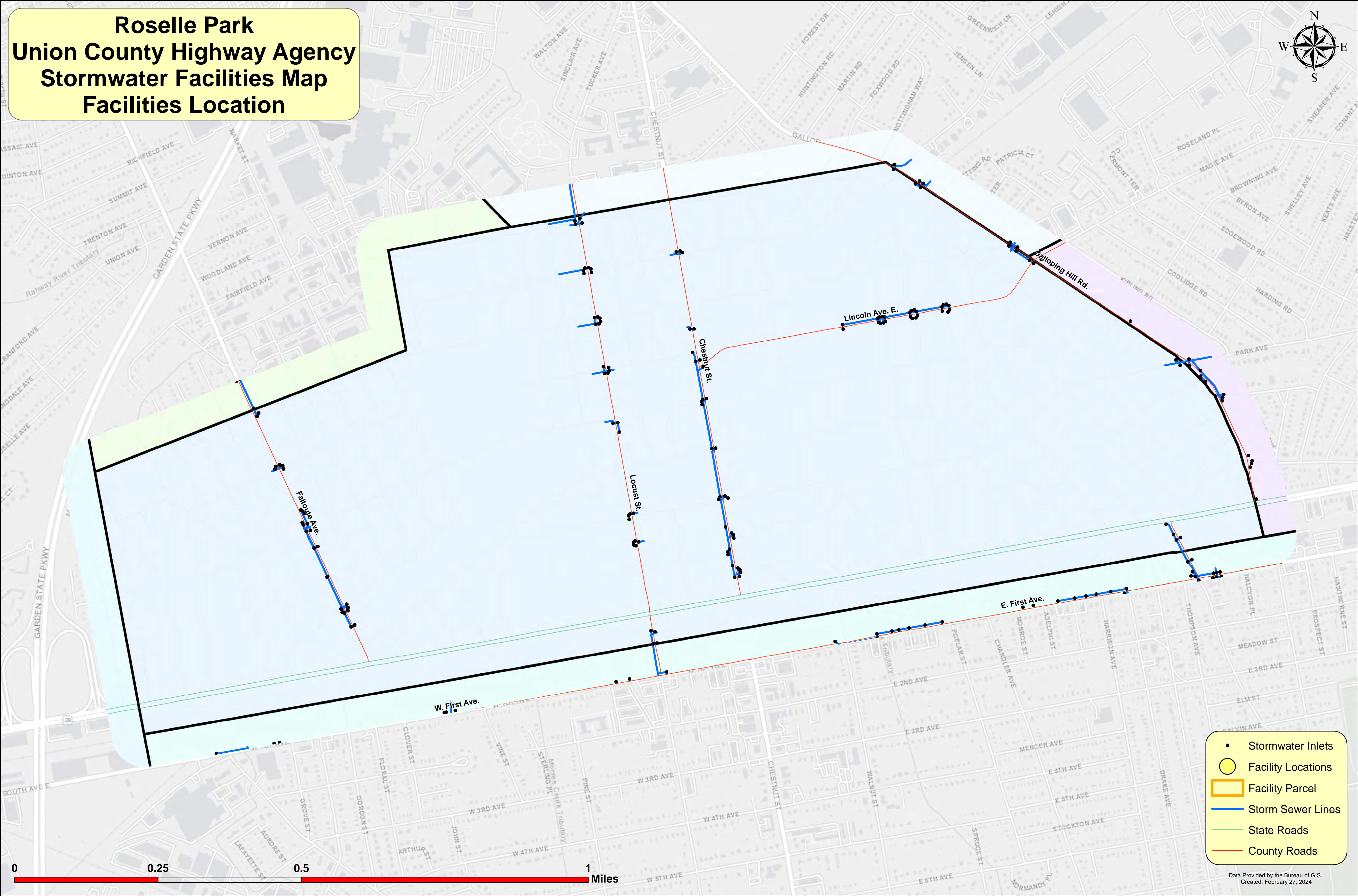
Roselle Union County Highway Agency Stormwater Facilities Map Facilities Location



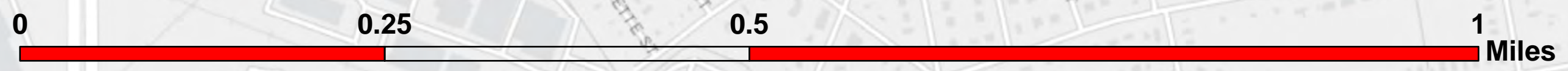
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

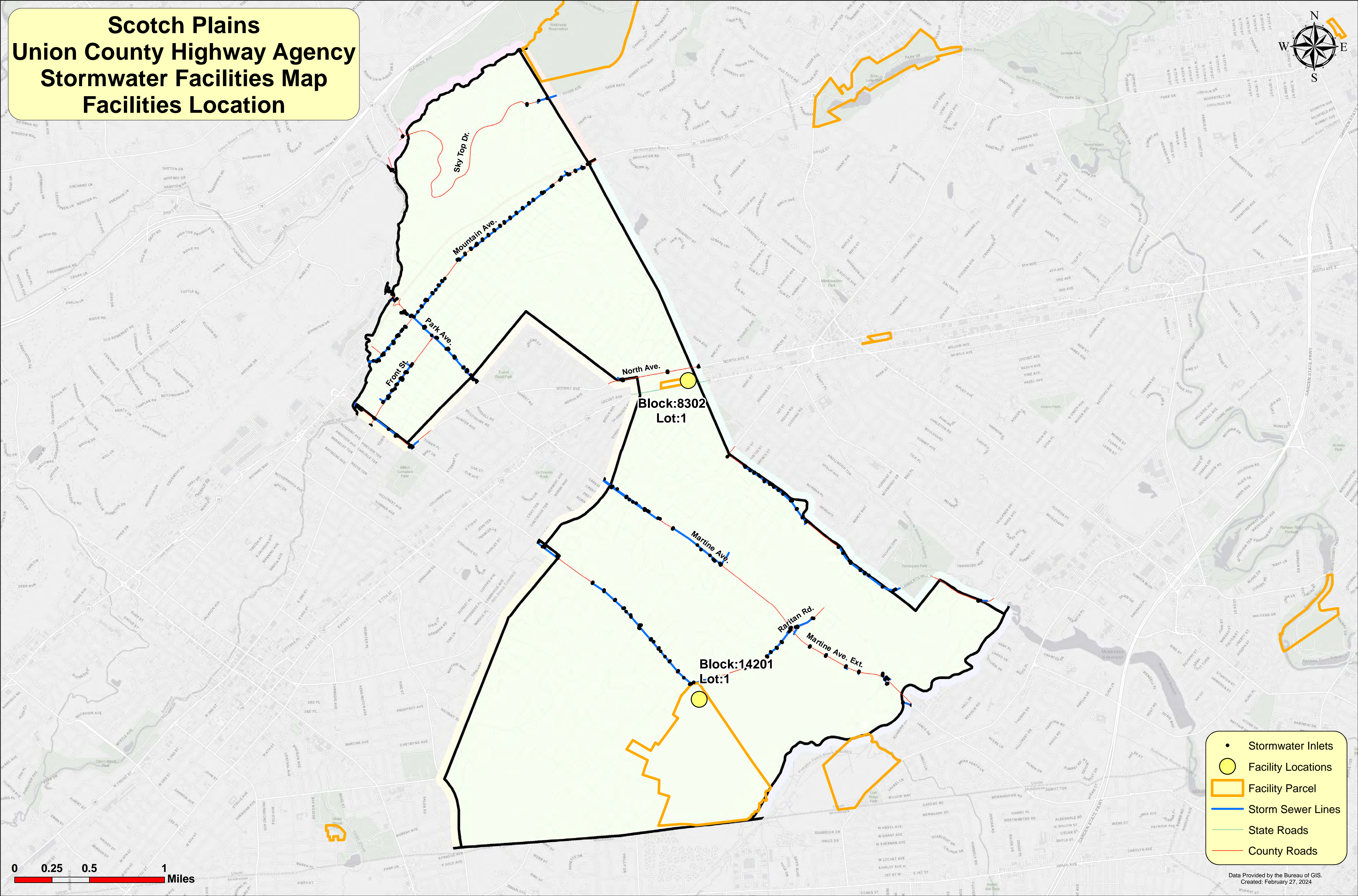
Roselle Park Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



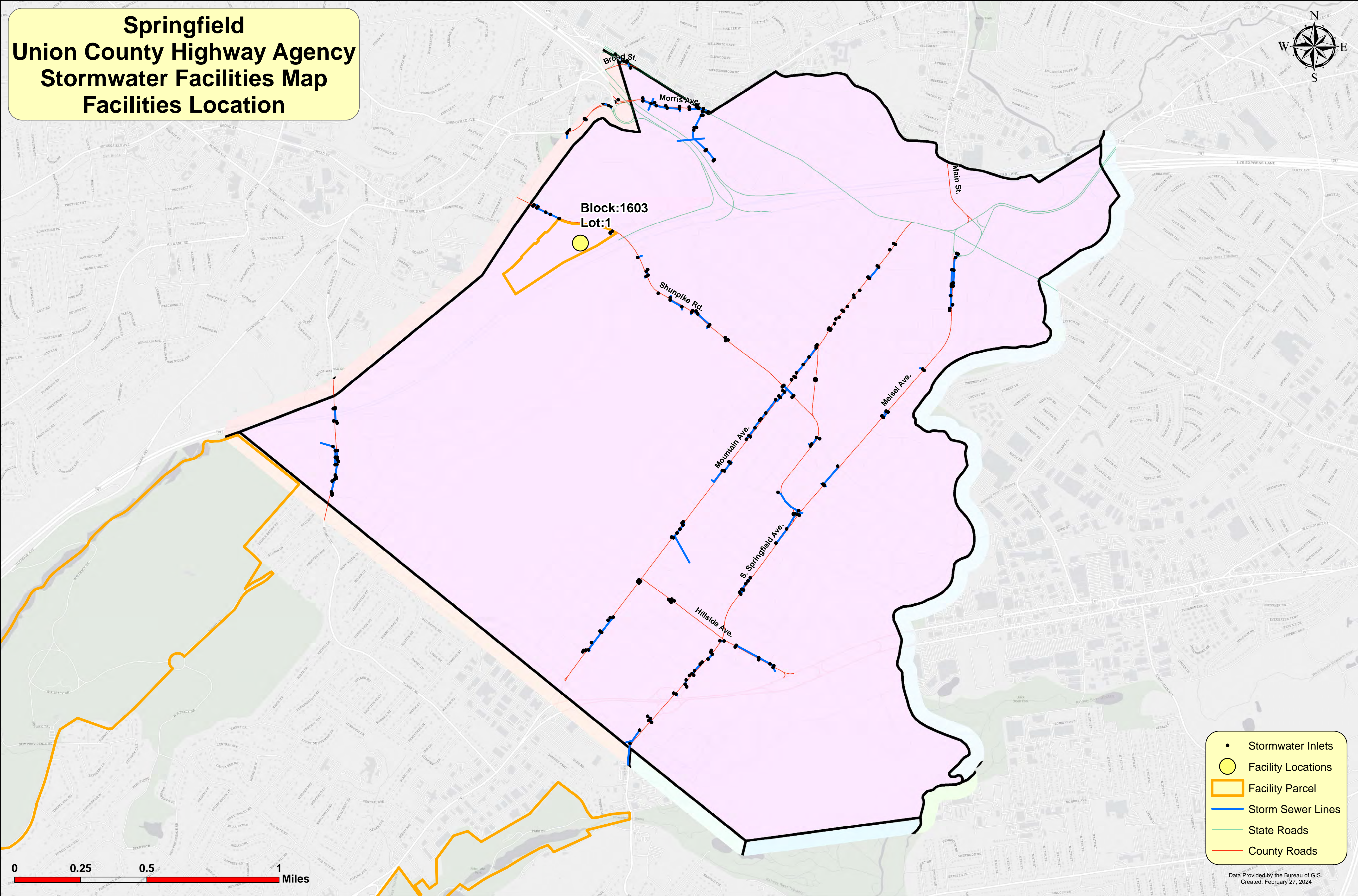
Scotch Plains Union County Highway Agency Stormwater Facilities Map Facilities Location



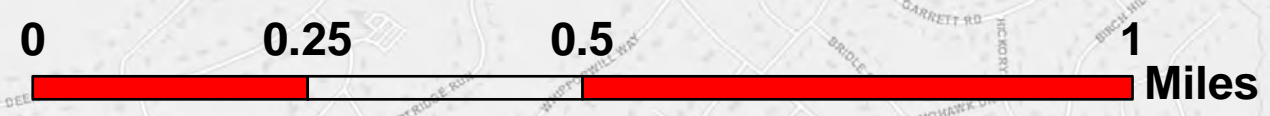
- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

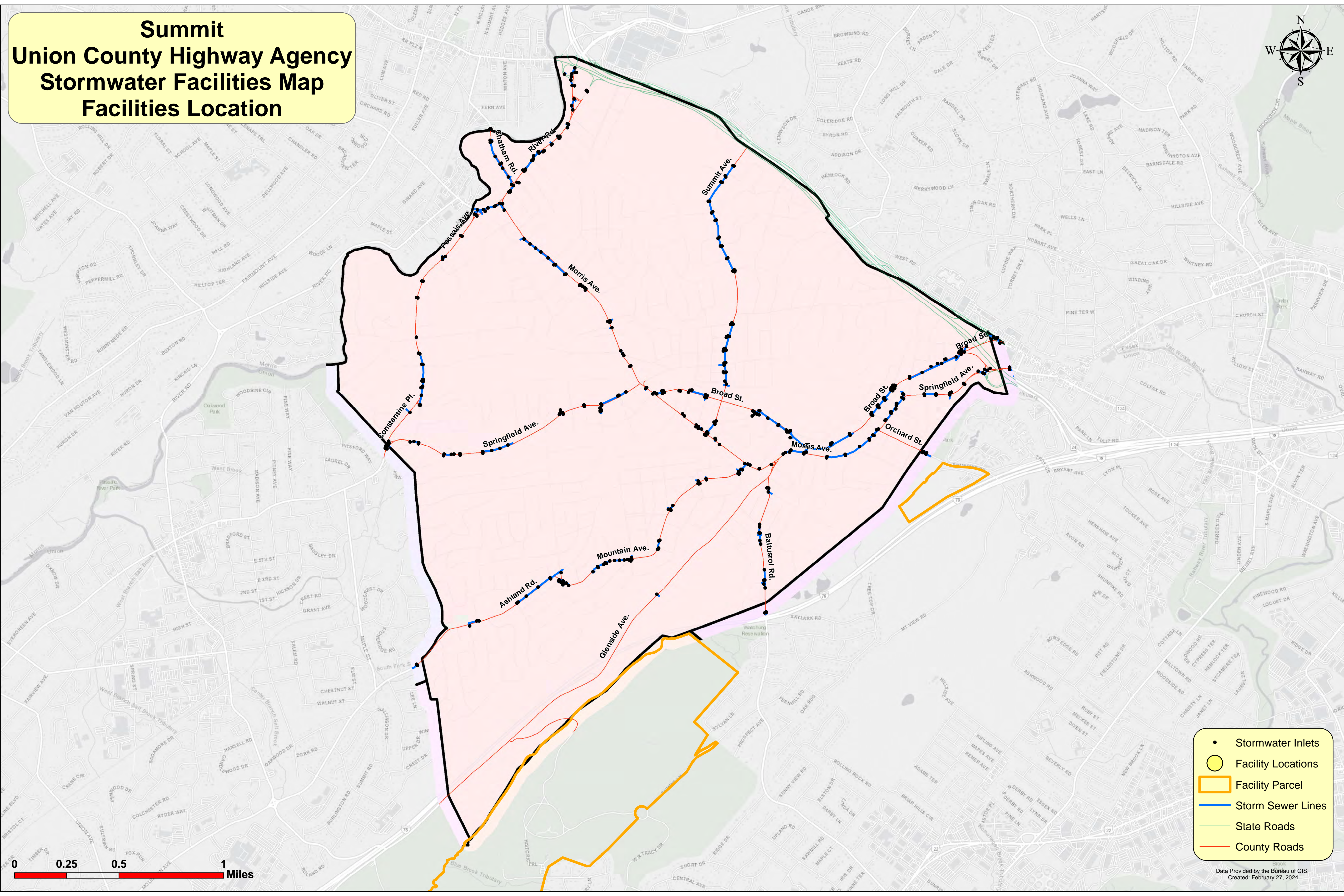
Springfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



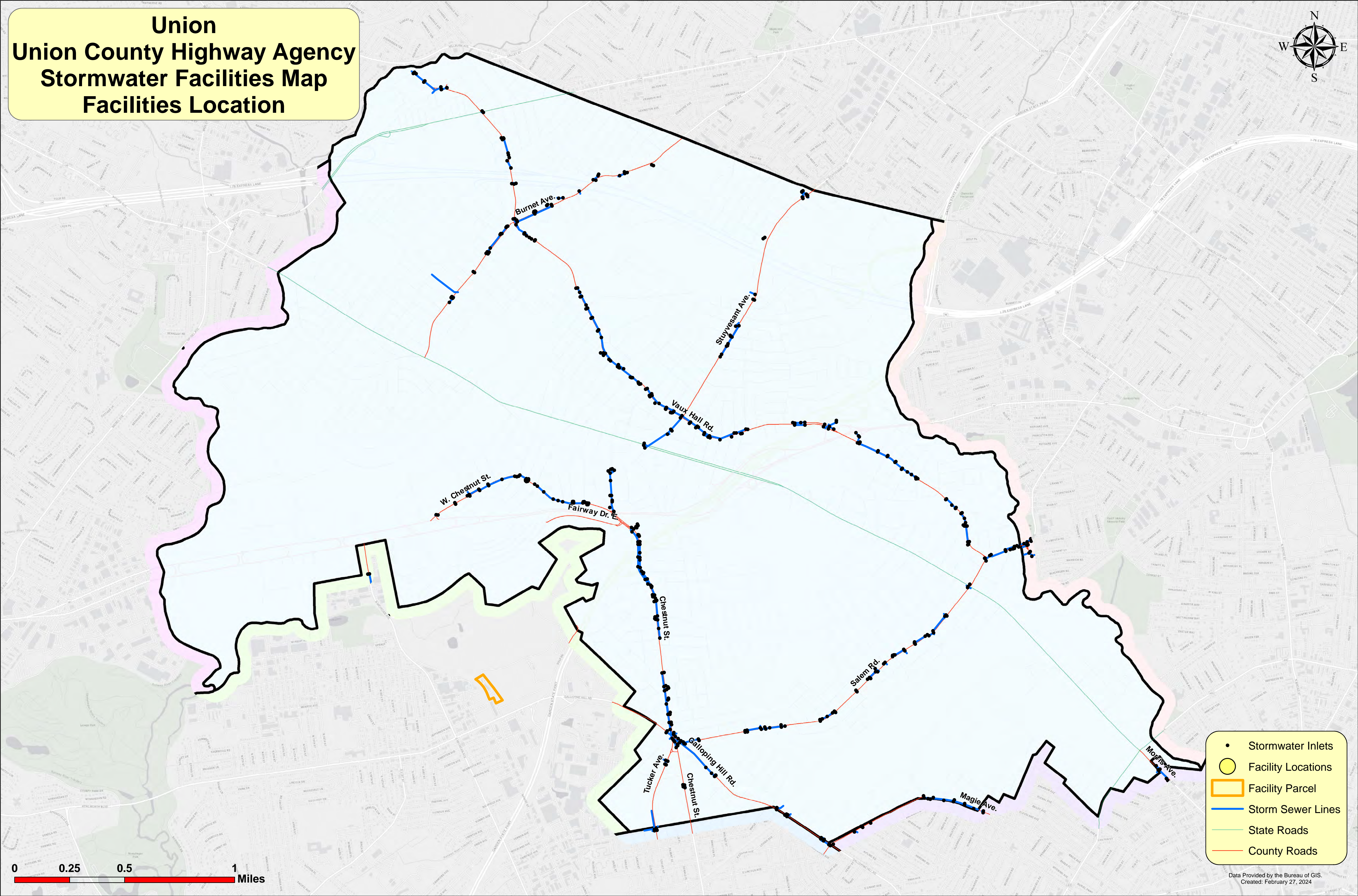
Summit Union County Highway Agency Stormwater Facilities Map Facilities Location



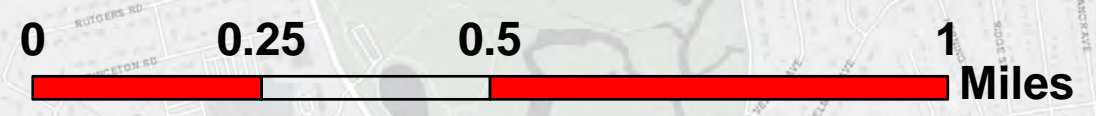
- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



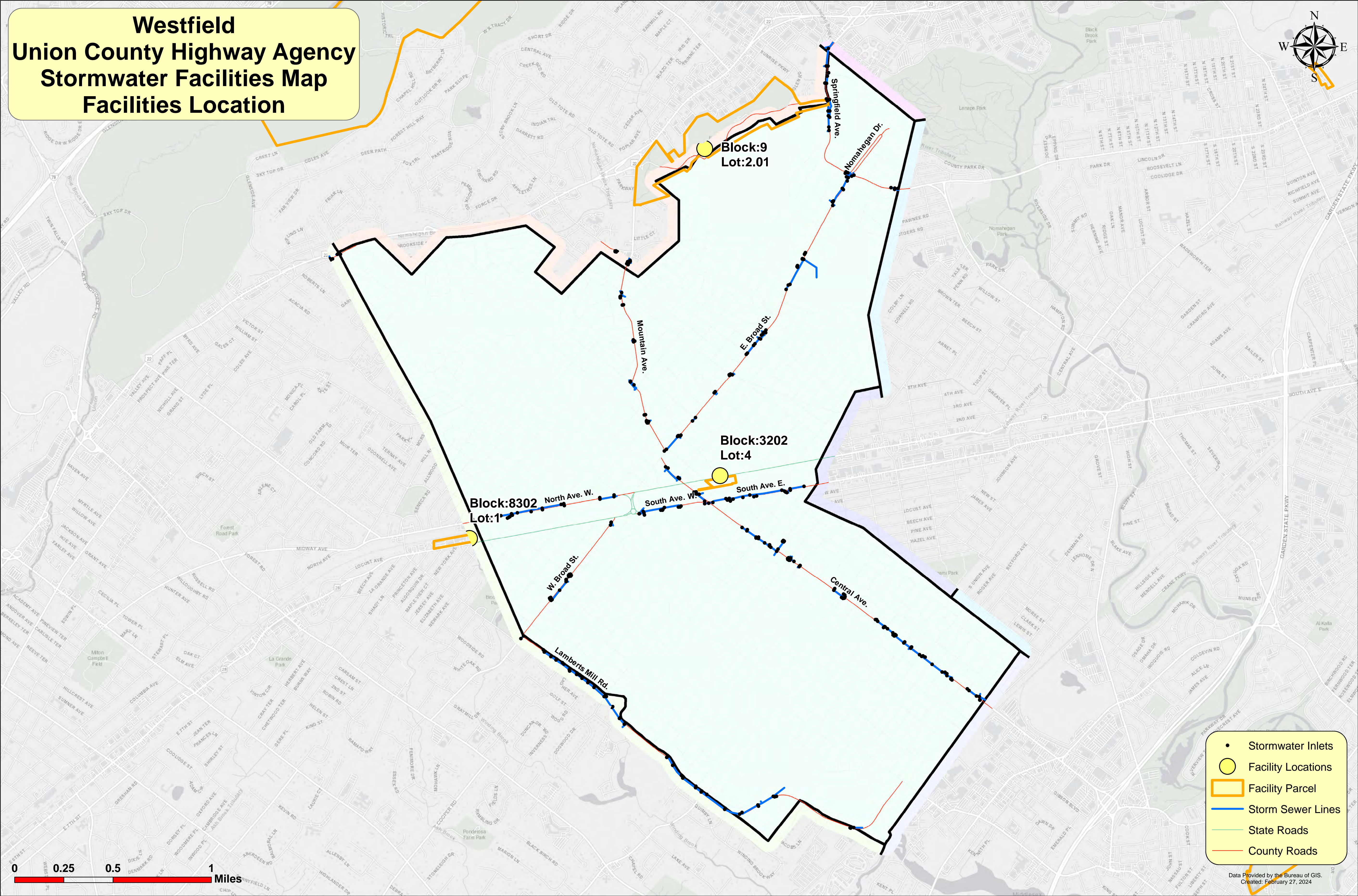
Union Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads



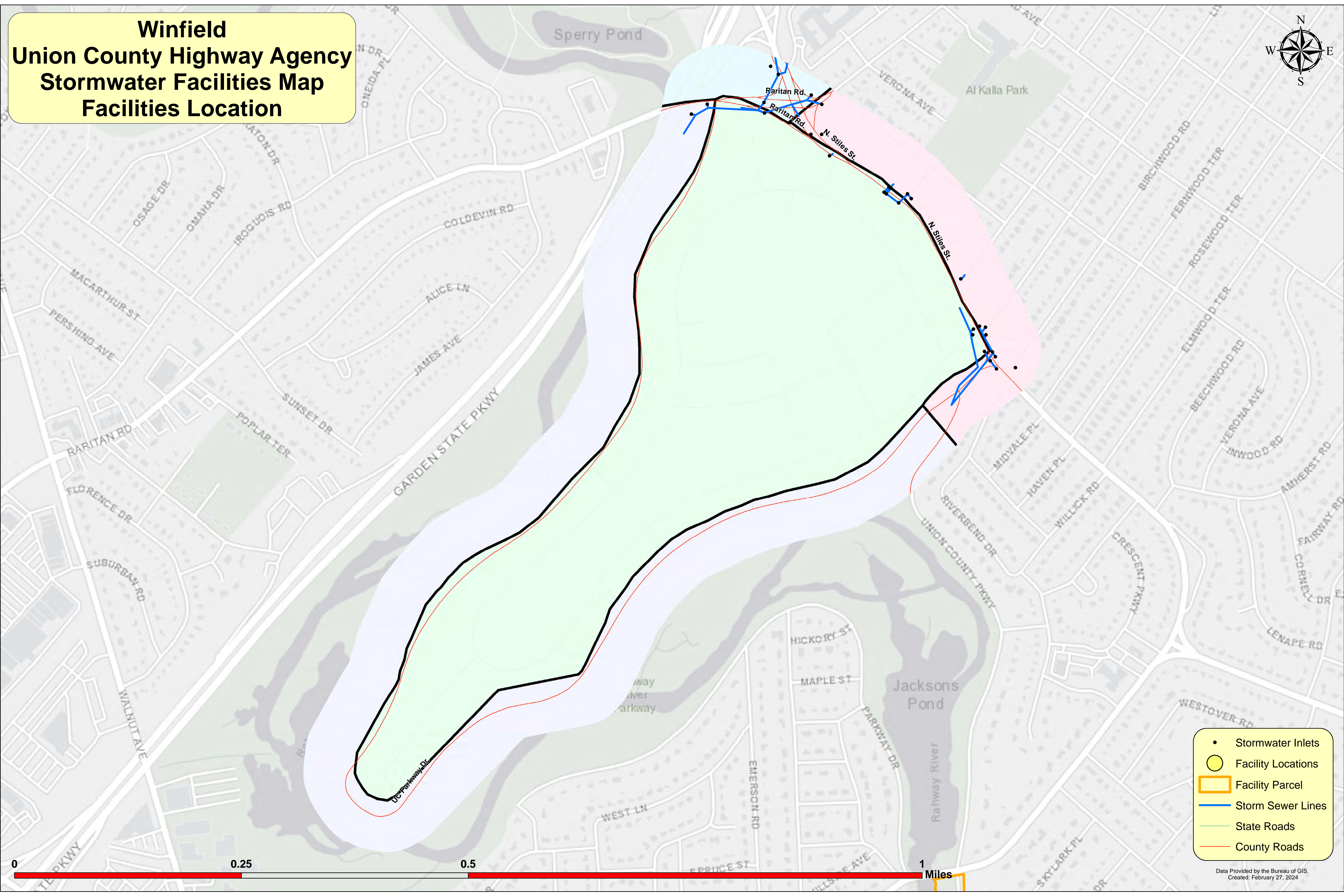
Westfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- ▭ Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles

Winfield Union County Highway Agency Stormwater Facilities Map Facilities Location



- Stormwater Inlets
- Facility Locations
- Facility Parcel
- Storm Sewer Lines
- State Roads
- County Roads

0 0.25 0.5 1 Miles