

RE: City of Plainfield--Dept of PW Admin Office

From Felicia McNeil <felicia.mcneil@plainfieldnj.gov>

Date Thu 8/28/2025 2:08 PM

To NJ21st Team <team@nj21st.com>

Cc Oren K. Dabney <ok.dabneysr@plainfieldnj.gov>; Marilyn Nieves <marilyn.nieves@plainfieldnj.gov>; K Bethea <kbethea@plainfieldpolice.nj.gov>; Alecia L. Gordon <alecia.gordon@plainfieldnj.gov>

 2 attachments (3 MB)

20250828213403.pdf; 20250828211533.pdf;

Good afternoon John

On behalf of Director Dabney, the only information that the City of Plainfield has that you reviewed in the Union County Hazard Mitigation Plan (UCHMP) is a copy of our stormwater ordinance which is attached. And also a copy of an engineering estimate with a map for detention basin upgrades/improvements at Milt Campbell Field. To be addressed once funding becomes available. All other funding or costs outlined in the UCHMP are just estimates. We did not receive any price quotes. In addition, we are in the process of adding an NJDEP mandatory "MS4 Stormwater Infrastructure Electronic Mapping System". This mapping system will allow us to identify MS4 outfalls, groundwater discharge points, interconnections, storm drains, inlets, manholes and watershed monitoring to eventually result in improvements to water quality and reduce flooding.

Respectfully,

Felicia McNeil
Assistant to the Dept. of Public Works Director
City of Plainfield
Office of the Public Works Department
515 Watchung Avenue
Plainfield, NJ 07060
(908) 753-3375; Ext. 2170
Email: felicia.mcneil@plainfieldnj.gov

From: NJ21st Team <team@nj21st.com>

Sent: Tuesday, August 26, 2025 1:09 PM

To: Felicia McNeil <felicia.mcneil@plainfieldnj.gov>

Cc: Oren K. Dabney <ok.dabneysr@plainfieldnj.gov>; Alecia L. Gordon <alecia.gordon@plainfieldnj.gov>

Subject: Re: City of Plainfield--Dept of PW Admin Office

Hey Felicia- thank you so much!

If there is any context the city would like to add in addition to the responsive documents so that context is provided, please feel free to include that in the email. Have a great rest of the day.

Here are the items (all lines are pulled from the UCHMP):

12-01 – Upgrade and improve the stormwater management system, including retention basins, along Leland Avenue, Netherwood Avenue, Farraget Avenue, Raymond Avenue, Milton Place, Rose Street, 1200 Block of Arlington Avenue, Stelle Avenue, and 500 North Block Avenue.

Hazard(s): Flood

Responsible Party: DPW

Funding / Cost: FEMA HMA, \$400,000

Timeline: 1–2 years

Status: Ongoing

Documentation Received?: No

12-02 – Stabilize and augment the streambanks of Cedar Brook to protect the apartment complexes at Rose and Randolph Road.

Hazard(s): Flood

Responsible Party: OEM & Engineer

Funding / Cost: FEMA HMA, \$500,000

Timeline: 1–2 years

Status: Carried Forward

Documentation Received?: No

12-03 – Flood-proof four apartment complexes located within the SFHA, including Richmond Tower Apartments, Cedar Brook Apartments, and Covenant Manor.

Hazard(s): Flood

Responsible Party: OEM & Engineer

Funding / Cost: FEMA HMA, \$1,000,000

Timeline: 1–2 years

Status: Ongoing

Documentation Received?: No

12-16 – Obtain backup power or bury lines for critical facility at 724 Park Avenue.

Hazard(s): All Hazards

Responsible Party: DPW

Funding / Cost: \$315,000

Timeline: 1 year

Status: New

Documentation Received?: No

12-17 – Obtain backup power or bury lines at Emerson School.

Hazard(s): All Hazards

Responsible Party: DPW

Funding / Cost: \$750,000

Timeline: 1 year

Status: New

Documentation Received?: No

12-18 – Create a microgrid of underground electricity tying critical infrastructure together to sustain operability during severe incidents.

Hazard(s): All Hazards

Responsible Party: DPW + Utilities

Funding / Cost: FEMA Grant, \$5,000,000

Timeline: 5+ years

Status: New

Documentation Received?: No

12-19 – Adopt updated NJDEP stormwater ordinance (Appendix D of the NJ Stormwater Best Management Practices Manual).

Hazard(s): Flood, Erosion

Responsible Party: City Council

Funding / Cost: Municipal Budget, \$0

Timeline: 1 year

Status: New

Documentation Received?: No

John

From: Felicia McNeil <felicia.mcneil@plainfieldnj.gov>

Sent: Tuesday, August 26, 2025 1:05 PM

To: NJ21st Team <team@nj21st.com>

Cc: Oren K. Dabney <ok.dabneysr@plainfieldnj.gov>; Alecia L. Gordon <alecia.gordon@plainfieldnj.gov>

Subject: City of Plainfield--Dept of PW Admin Office

Good afternoon John

At the request of Director Dabney, I am reaching out to you so you can email your questions.

Thank you!

Felicia McNeil

Assistant to the Dept. of Public Works Director

City of Plainfield

Office of the Public Works Department

515 Watchung Avenue

Plainfield, NJ 07060

(908) 753-3375; Ext. 2170

Email: felicia.mcneil@plainfieldnj.gov



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

ENGINEER'S ESTIMATE

PROJECT NAME: MILTON CAMPBELL FIELD DETENTION BASIN IMPROVEMENTS
PROJECT LOCATION: CITY OF PLAINFIELD
PROJECT NUMBER: CPLFD24100

DATE: 5/16/2024
PREPARED BY: AT
REVIEWED BY: DR

ITEM NO	DESCRIPTION	#REFI	UNIT	UNIT PRICE	PROJECT TOTAL
1	MOBILIZATION	1	LS	\$ 20,000.00	\$ 20,000.00
2	TREE CLEARING, EXCAVATION, AND MATERIAL EXPORT FOR BASIN EXPANSION	1	LS	\$ 500,000.00	\$ 500,000.00
3	RECONSTRUCTION OF OUTLET STRUCTURE TRASH RACK	1	LS	\$ 40,000.00	\$ 40,000.00
4	NEW DETENTION BASIN AREA	1	LS	\$ 2,500,000.00	\$ 2,500,000.00
5	DE-SNAGGING AND STABILIZATION OF THE EXISTING STREAM	1	LS	\$ 550,000.00	\$ 550,000.00
6	RAISE EXISTING PEDESTRIAN BRIDGES	1	LS	\$ 100,000.00	\$ 100,000.00
7	PERMITS (SESC, NJDEP)	1	LS	\$ 50,000.00	\$ 50,000.00
8	SOIL EROSION & SEDIMENT CONTROL MEASURES	1	LS	\$ 50,000.00	\$ 50,000.00
9	POLICE HOURS	1	LS	\$ 40,000.00	\$ 40,000.00
CONSTRUCTION COST					\$ 3,850,000.00
DESIGN ENGINEERING FEE			LS	\$ 150,000.00	\$ 150,000.00
TOTAL COST					\$ 4,000,000.00

Drew M. Di Sessa
N.J. Professional Engineer Lic. #

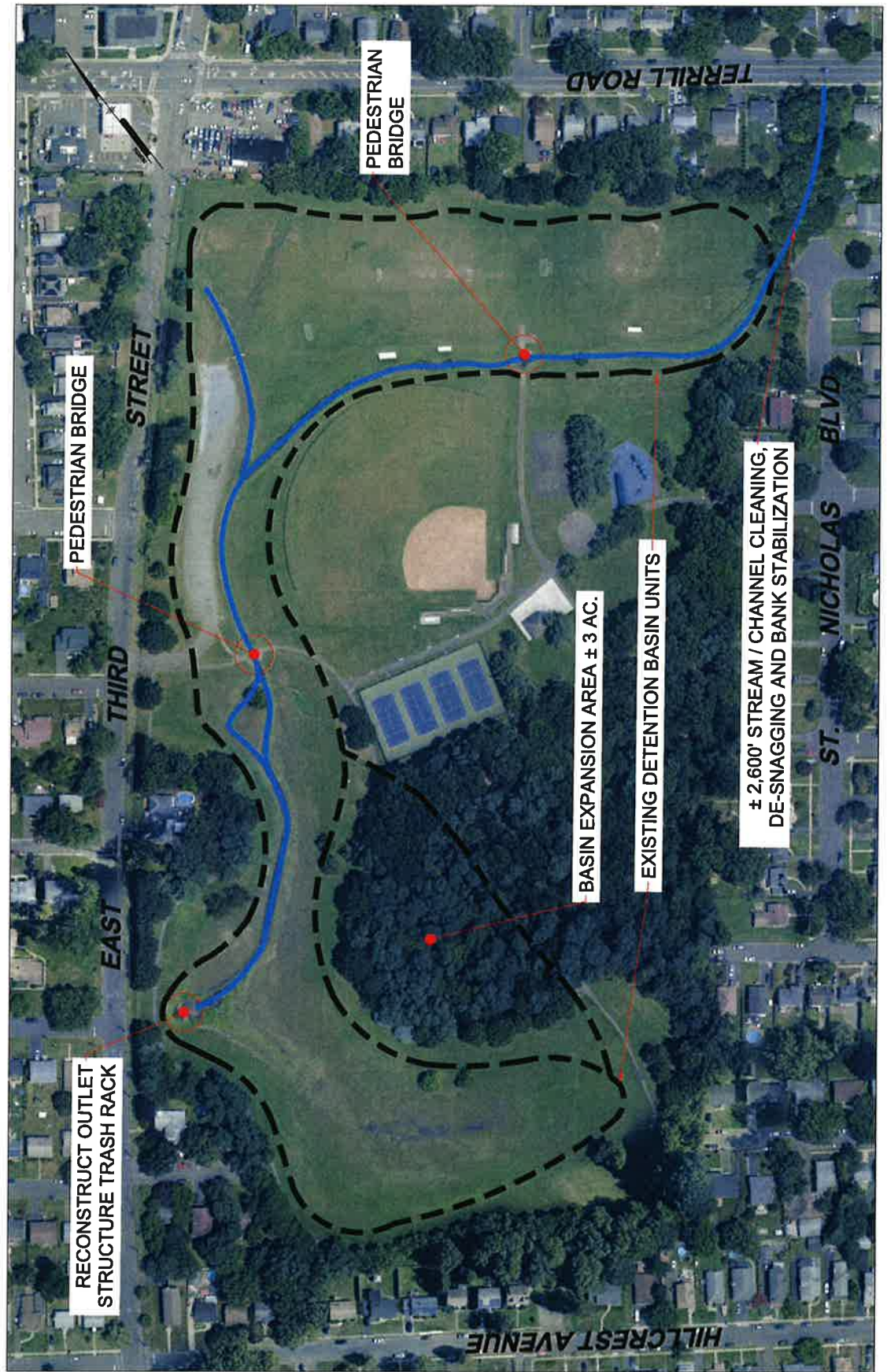
33837

ALL DIMENSIONS MUST BE VERIFIED BY CONSTRUCTION
 DISCREPANCIES BEFORE PROCEEDING WITH WORK
 AND OWNERS MUST BE NOTIFIED OF ANY

CONCEPT PLAN
 MILTON CAMPBELL FIELD
 DETENTION BASIN IMPROVEMENTS
 FLOOD REDUCTION PROJECT
 CITY OF PLAINFIELD
 919 WATERLOO AVENUE
 PLAINFIELD, NEW JERSEY 07060

DATE	NO.	REVISION

CP-1
 SHEET 1 OF 1



ARTICLE XII

Stormwater Management

§ 17:12-1. Stormwater management for non-major development. [MC 2002.29 § 17:12.1, December 2, 2002]

Editor's Note: For Stormwater management for major development see § 17:12-2.

- A. All development shall be provided with a stormwater management plan consisting of, but not limited to, inlets, manholes and pipes where necessary for proper surface drainage. The system shall be adequate to carry off and/or store the stormwater and natural surface runoff, which originates not only within the property in question, but also beyond the tract boundaries.
- B. Where possible, all runoff within a site shall ultimately leave the site in the same watershed in which it originated and shall be released in such a manner so as to not overload existing drainage systems, create flooding creating a need for additional drainage facilities on other public or private lands or increase predevelopment erosion of adjacent lands.
- C. The peak rate of runoff from a site during and after development shall not exceed the predevelopment peak rate of runoff. Development upstream of known areas of problem flooding shall be required to further reduce the peak rate of runoff below the predeveloped rate. Where the upstream tributary drainage area exceeds fifty (50) acres, the standards established in the Technical Manual for Stream Encroachment, N.J.A.C. 7:13-2.8, Stormwater Management, NJDEP, shall govern.
- D. The increase in volume of runoff from a site, during and after development, from the predevelopment total of volume of runoff shall be minimized. Runoff control measures shall be used to retard or reduce runoff and increase recharge. Depending on the soil characteristics natural and artificial recharge area and systems should be employed whenever practical to minimize the volume of surface water runoff. These include, but are not limited to, infiltration pits, dry wells, infiltration trenches and the extensive use of sheet flow through vegetated areas. The use of such measures will not eliminate or reduce, even partially, the need for other requirements of this section.
- E. The peak rate of runoff for areas of up to twenty (20) acres shall be calculated by the rational method or derivatives. The equation for the rational method is as follows:

$$Q_p = CIA$$

Where

Q_p = The peak runoff rate in cubic feet per second (cfs). C = The runoff coefficient.

I = The average rainfall intensity in inches per hour (in/hr), occurring at the time of concentration T_c (min).

T = The time of concentration in minutes (min).

A = The size of the drainage area in acres (ac).

1. Typical runoff coefficients (C values) are provided in the Technical Manual for Stream Encroachment, prepared by the New Jersey Department of Environmental Protection (NJDEP), page 51, Table 3.1-2(B1). Runoff coefficient C used in the rational formula shall be weighted if there is more than one (1) kind of land use within the drainage basin under consideration.
2. The time of concentration (t_c) is defined as the time required for water to reach the point in question from the most hydraulically distant point in the basin. Time of concentration (t_c) shall be estimated from the Nomograph for the Determination of Time of Concentration, prepared by the State of New Jersey Highway Authority. The analysis shall also consider the procedure outline in Section 3.12(c) for Technical Release (TR) Number 55, Urban Hydrology for Small Watersheds, United States Department of Agriculture, Soil Conservation Series, as supplemented and amended (SCS method).

3. Rainfall intensity as a function of duration and storm recurrence frequency shall be based upon geographically appropriate data as depicted in the plates in Technical Paper Number 25, Rainfall Intensity Duration-Frequency Curves, United States Department of Commerce, Weather Bureau, as supplemented and amended. Intensity curves may be based on local rainfall frequency data, where available. In all instances, a minimum time of concentration of five (5) minutes should be used.

4. The peak rate of runoff for areas greater than twenty (20) acres shall be calculated by hydrograph analysis method as outlined in the latest edition of Urban Hydrology for Small Watersheds Technical Release Number 55 (TR55).

F. Runoff Volume Calculation. Runoff volume shall be calculated by the hydrograph analysis method as outlined in the latest edition of Urban Hydrology for Small Watersheds Technical Release Number 55 (SCS method). This method shall be used for watersheds having drainage areas greater than twenty (20) acres. For drainage areas of less than twenty (20) acres, the rational method triangular hydrograph approximation with the peak rate occurring at the time of concentration and the end of the hydrograph at three (3) times the time of concentration may be used as an alternative.

G. System Design.

1. Collection systems shall be designed to accommodate the intensity for a storm frequency of once in ten (10) years for storm drainage facilities located in or affecting streets of the rural, local and minor collector classifications. A storm frequency of once in twenty-five (25) years shall be utilized for systems affecting secondary arterial and major collector streets as well as all open channels.

2. Hydraulic capacity for open channel or closed conduit flow shall be determined by the Manning equation or charts/nomographs based on the Manning equation. The hydraulic capacity is termed "Q" and is expressed as discharge in cubic feet per second. The Manning equation is as follows:

Qp = $\frac{1.486 \text{ AR}^{2/3} \text{ S}^{1/2}}{N}$

Where

n =

A =

R =

Manning's roughness coefficient.*

Cross-sectional area of flow in square feet.

Hydraulic radius in feet (R

= Q/P, where P is equal to the wetted perimeter). S = Slope of conduit in feet per foot.

*NOTE: The Manning roughness coefficients to be utilized are shown in the Technical Manual for Stream Encroachment, NJDEP, Table 3.2-11 (A-1).

3. Velocities in open channels at design flow shall not be less than five-tenths (0.5) foot per second and not greater than that velocity which will begin to cause erosion or scouring of the channel. Permissible velocities for swales, open channels and ditches are allowed for the appropriate soil type based on the Soil Conservation Service Standards for Soil Erosion and Sediment Control in New Jersey, as amended.
4. Velocities in closed conduits at design flow shall be at least two (2) feet per second but not more than ten (10) feet per second.
5. No pipe size in the storm drainage system shall be less than fifteen (15) inches in diameter.
6. All discharge pipes shall terminate with a precast concrete flared end section or a cast- in-place concrete headwall with or without wingwalls as conditions dictate.

7. The spacing of inlets shall be such that surface water shall not flow for more than five hundred (500) feet or the quantity of water is such that it caused ponding of water deeper than two (2) inches at Type B and Type E inlets, whichever is the lesser distance. If due to the slope of the approach prior to the inlet, eighty percent (80%) of the stormwater does not enter the inlet, decreased spacing and depth of water permissible shall be required. Sufficient inlets will be placed to eliminate any flow exceeding two (2) cubic feet per second across any roadway intersections or pedestrian crosswalk.
8. Dished gutters shall be permitted at any street intersection on rural and local streets and at the intersection of rural and local streets with minor collector streets and at the intersection of minor collector streets with major collector streets where the street of the lower classification is to be officially designated and signed as a stop street. In such case, the dished gutter shall cross only the street of the lower classification. At the intersections of primary and secondary arterial streets and major collector streets, sufficient catch basins, at the discretion of the reviewing agency, shall be installed at each street intersection to avoid gutter overflow and at low points in the street grade, and dished gutters shall not be permitted.
9. Manhole spacing shall increase with pipe size. The maximum spacing shall be five hundred (500) feet for fifteen (15) to eighteen (18) inches; six hundred (600) feet for twenty-one (21) to thirty-six (36) inches; and seven hundred (700) feet for forty-two (42) inches and greater.

H. Construction Standards for Pipe.

1. Materials used in the construction of storm sewers shall be constructed of reinforced concrete, ductile iron, corrugated aluminum or corrugated steel unless site and other conditions dictate otherwise. Reinforced concrete pipe shall be used unless the applicant can demonstrate that the use of other materials will be more beneficial due to the proposed installation. Cost will not be a consideration in this analysis. Specifications referred to, such as American Standards Association, American Society for Testing and Materials, American Water Works Association, etc., should be the latest revision.
2. Reinforced Concrete Pipe.
 - a. Circular reinforced concrete pipe and fittings shall meet the requirements of ASTM C-76.
 - b. Elliptical reinforced concrete pipe shall meet the requirements of ASTM C-507.
 - c. Joint design and joint material for circular pipe shall conform to ASTM C-443.
 - d. Joints for elliptical pipe shall be bell and spigot or tongue and groove, sealed with butyl, rubber tape or external sealing bands conforming to ASTM C-877.
 - e. All pipe shall be Class III unless a stronger pipe (i.e., higher class) is indicated to be necessary.
 - f. The minimum depth of cover over the concrete pipe shall be as designated by the American Concrete Pipe Association.
3. Ductile Iron Pipe. Ductile iron pipe shall be centrifugally cast in metal or sand-lined molds to ANSI A 21.51-1976 (AWWA C151-76). The joints shall conform to AWWA C111. Pipe shall be furnished with flanges where connections to flange fittings are required. Pipe should be Class 50 (minimum). The outside of the pipe should be coated with a uniform thickness of hot-applied coal tar coating and the inside line cement in accordance with AWWA C104. Ductile iron pipe shall be installed with Class C ordinary bedding.
4. Corrugated Aluminum Pipe. Within the public right-of-way and where severe topographic conditions or the desire to minimize the destruction of trees and vegetation exist, corrugated aluminum pipe, pipe arch or helical corrugated pipe may be used. The material shall comply with the Standard Specifications for Corrugated Aluminum Alloy Culvert and Under Drain AASHTO destination M196 or the Standard Specification for Aluminum Alloy Helical Pipe AASHTO

Designation M-211. The minimum thickness of the aluminum pipe to be used shall be:

- a. Less than twenty-four (24) inch diameter or equivalent, seventy-five thousandths (0.075) inch (14-gauge).
- b. Twenty-four-inch diameter and less than forty-eight-inch diameter or equivalent, one hundred five thousandths (0.105) inch (12-gauge).
- c. Forty-eight-inch but less than seventy-two-inch diameter or equivalent, one hundred thirty-five thousandths (0.135) inch (10-gauge).
- d. Seventy-two-inch diameter or equivalent and larger, one hundred sixty-four thousandths (0.164) inch (8-gauge).

5. Corrugated Steel Pipe. Corrugated steel pipe may be used in place of corrugated aluminum and shall meet the requirements of AASHTO Specification M36. Coupling bands and special sections shall also conform to AASHTO M-36. All corrugated steel pipe shall be bituminous coated in accordance with AASHTO M-190 Type A minimum.

6. Pipe bedding shall be provided as specified in Design and Construction of Sanitary and Storm Sewers, ASCE Manuals and Reports on Engineering Practice Number 37, prepared by A Joint Committee of the Society of Civil Engineers and the Water Pollution Control Federation, New York, 1969.

L Construction Standards for Inlets, Catch Basins and Manholes. Inlets, catch basins and manholes shall be designed in accordance with State Highway Department Standard Plans and Specifications. Frames shall be Campbell Foundry Company Pattern Number 2541, 2548, with eight-inch curb face, and 3432, 3440, for Type E inlets, or approved equal. All grates shall be bicycle grates.

1. Manholes and catch basins shall be precast concrete, brick or concrete block, coated with two (2) coats of portland cement mortar.

2. If precast manhole barrels and cones are used, they shall conform to ASTM Specification C-473 with round rubber gasketed joints, conforming to ASTM Specification C-923. Maximum absorption shall be eight percent (8%) in accordance with ASTM Specification C-478, Method A.

3. If precast manholes are utilized, the top riser section shall terminate less than one (1) foot below the finished grade and the manhole cover shall be flush with the finished grade.

4. Manhole frames and covers shall be of cast iron conforming to ASTM Specification A-48 Class 30 and be suitable for H-20 loading capacity. All manhole covers in rights- of-way or in remote areas shall be provided with a locking device. The letters "Year 20 ____" and the words "STORM SEWER" shall be cast integrally in the cover.

D. Detention Facilities.

1. Development shall use the best available technology to accommodate stormwater management by natural drainage strategies as indicated in subsection D of this section.

2. Detention and all other stormwater management facilities shall conform to the standards under the New Jersey Stormwater Management Act, N.J.S.A. 40:55D-93 et seq.

3. Where detention facilities are deemed necessary, they shall accommodate site runoff generated from two-year, ten-year and one hundred-year storms considered individually, unless the detention basin is classified as a dam, in which case the facility must also comply with the Dam Safety Standards, N.J.A.C. 7:20. These "design storms" shall be defined as either a twenty-four-hour storm using the rainfall distribution recommended by the United States Soil Conservation Service (such as United States Soil Conservation Service, Urban Hydrology for Small Watersheds, Technical Release Number 55) or as the estimated maximum rainfall for the estimated time of concentration of runoff at the site when using a design method such as the modified rational method. Runoff greater than that occurring from the one hundred-year, twenty- four-hour storm will be passed over an

emergency spillway.

Detention will be provided such that, after development, the peak rate of flow from the site will not exceed that by similar storms prior to development.

4. In calculating the site runoff to be accommodated by a detention facility, the method to be used is a tabular hydrograph method as presented in TR Number 55 (SCS method), as supplemented and amended. The pre-developed lands in the site shall be assumed to be in good condition, if the lands are woods, or with conservation treatment, if the land is cultivated, regardless of conditions existing at the time of concentration.
5. Detention facilities shall be located as far horizontally from surface water and as far vertically from groundwater as is practicable. A complete soils report for the detention basins and surrounding areas shall be submitted. The report should address the effect groundwater will have on the construction and maintenance of the detention basins.
6. Only one-half (1/2) of the area devoted to detention or retention facilities shall be considered non-impervious surfaces in calculating the maximum percentages as set forth in other sections of this chapter. The area devoted shall be the area encompassed by the depth of water to the emergency spillway, plus one (1) foot.
7. The top of the excavation or the toe of the outside slope shall be set back twenty-five (25) feet from adjoining nonresidential property lines and fifty (50) feet from an adjoining property line of a lot on which there is a residential use. The edge of the design high water for the detention basins shall be set back one hundred (100) feet existing or proposed dwelling units.
8. The top of the excavation or the toe of the outside slope shall be set back fifty (50) feet from the edge of the pavement from adjoining roads and shall be set back twenty-five (25) feet from the adjoining right-of-way line for any right-of-way dedicated for use as a public road.
9. Dry Detention Basins. The following design standards shall apply to all dry detention basins:
 - a. The maximum embankment side slopes shall have the ratio of one (1) vertical to three (3) horizontal.
 - b. Basin bottom shall meet the following specifications:
 - Traverse slope (to low flow channel); minimum two percent (2%);
 - Low flow channel if sodded; minimum slope two percent (2%);
 - Low flow channel if concrete; slope not less than one percent (1%);
 - Riprap low flow channel will not be accepted.
 - c. An area ten (10) feet wide with a maximum slope of two percent (2%) shall be constructed at the top of the bank surrounding the basin.
 - d. Vegetation stabilization cover shall be provided throughout the basin and landscaping shall be provided on the perimeter of the basin as approved by the Board's landscape architect.
 - e. The basin floor shall lie a minimum of two (2) feet above the seasonal high groundwater table.
10. Wet detention/retention basins are discouraged. Wet basins may be permitted only if no other above ground stormwater management facility is feasible.
11. Underground detention/retention basins are discouraged. Underground detention/retention basins may be permitted only if no other above ground stormwater management facility is feasible.

E. Protecting Water Quality.

1. In addition to addressing water quantity generated by development, a stormwater

management system shall also enhance the water quality of stormwater runoff.

2. In order to enhance water quality of stormwater runoff, stormwater management shall provide for the control of a water quality design storm. The water quality design storm shall be defined as the one-year frequency SCS Type III twenty-four-hour storm or a one and twenty-five-hundredths-inch two-hour rainfall.
3. The water quality design storm shall be controlled by best management practices. These include but are not limited to the following:
 - a. In dry detention basins, provisions shall be made to ensure that the runoff from the water quality design storm is retained such that not more than ninety percent (90%) will be evacuated prior to thirty-six (36) hours for all nonresidential projects or eighteen (18) hours for all residential project. The retention time shall be considered a brim-drawdown storage. The retention time shall be reduced in any case which would require an outlet size diameter of three (3) inches or less. Therefore, three-inch diameter orifices shall be the minimum allowed. The depth of the water quality storm should not exceed two (2) feet in depth.
 - b. In permanent ponds or wet basins, the water quality requirements of this section shall be satisfied where the volume of permanent water is at least three (3) times the volume of runoff produced by the water quality design storm.

F. Principal Outlets Quantity Control.

1. All principal outlet structures shall be concrete block or reinforced concrete. All construction joints are to be watertight. The outlet structure can consist of a riser, culvert pipe and/or weir outlet and must be accessible from the buffer area/access road when the basin is operational at full design flow for the 100-year design storm event. To minimize the chance of clogging and to facilitate cleaning, outlet openings, other than subsection K3a above, shall be at least six (6) inches in diameter. Similarly, riser pipes, if utilized, shall be at least eight (8) inches in diameter. All pipe joints are to be watertight, reinforced concrete pipe. In addition, trash racks and/or antivortex devices may be required where deemed necessary by the City. Outlet control structures should be protected by maintenance free trash racks. Trash racks should be designed to be on an incline with a clear opening area large enough so that debris buildup does not impede the area of the opening it protects. The trash rack should be a hinged rack and should avoid moving parts. It should be able to be opened to gain access for cleaning the outlet pipe, and should be made of a noncorrosive material (stainless steel or aluminum).
2. Eight-inch thick antiseep collars are to be installed along outlet pipes. Such collars shall be constructed of reinforced concrete with minimum Number 5 bars, each way, and two (2) inches of cover.
3. Where applicable, a concrete cradle shall be provided for outlet pipes.
4. Suitable lining shall be placed upstream and downstream of principal outlets as necessary to prevent scour and erosion. Such lining shall conform to the criteria contained in Standards for Soil Erosion and Sediment Control in New Jersey, published by the New Jersey State Soil Conservation Committee.
5. All outlet facilities shall be designed to prevent the potential hazard of a child's or an adult's either being carried into the opening or being held against the outlet by the pressure of the flowing stream waters, even during a one hundred-year storm.
6. Safe outlet structure design can encompass either outlet risers, gratings, trash racks or other means that, in the opinion of the Planning or Zoning Board, provide the desired level of safety.
7. Outlet structures should be designed to facilitate outlet operation and maintenance as the water level rises and to permit clearing either during or after a storm. Structural support members, steps, rungs or ladders should be provided to allow easy escape opportunities for a child or an adult without having these support members, ladders, etc., impede the clearing of trash from the outlet structure or the upward movement of trash from the outlet structure or the upward movement of trash as the water level rises.

8. The use of thin metal plates for trash rack bars, hand hold supports, sharp crested weirs or orifices are prohibited because of the potential for accidents. Wire mesh fabric is similarly prohibited due to its poor suitability for trash clearance.
9. Any outlet protective facility should have lockable hinged connections providing adequate access to thoroughly clean the area enclosed by the structure and to facilitate removal of accumulated debris and sediment around the outlet structure.
10. The outlet protective structure should have negligible influence upon the hydraulic performance of the outlet structure.
11. All outlet structures shall be structurally sound and shall be designed to withstand, without failure or permanent deformation, all structural loads, hydrostatic, dynamic or otherwise, which impact upon it during the design life of the installation. They shall be maintenance free to the maximum extent possible.
12. The detention/retention basin side slope walls shall be graded to slopes no greater than three (3) horizontal to one (1) vertical for a distance no less than twenty-five (25) feet on all sides of the outlet structure.
13. Other means of attaining the same outlet safety condition, such as inaccessible outlet locations, weirs, cascades, etc., will be considered as approvable if the same goals were attained.
14. Existing basins and outlet structures shall be revised by the respective responsible owners to comply with the above-defined goals within one (1) year of the enactment of this amendment.

G. Principal Outlets Quality Control.

1. Based upon the requirement limiting the size of the outlet to a minimum of six (6) inches in diameter, water quality control shall be maintained by providing an amount of storage equal to the total amount of runoff which will be produced by the one-year frequency SCS Type III twenty-four-hour storm or a one and twenty-five-hundredths-inch, two- hour rainfall at the bottom of the proposed detention basin along with a minimum three- inch diameter outlet.
2. The invert(s) of the principal outlet(s) used to control the larger storms for flood control purposes should be set at the elevation of the water surface elevation required to produce the water quality storage volume. Therefore, the principal outlets would be utilized for storms in excess of the one and twenty-five-hundredths-inch, two-hour event which, in turn, would be completely controlled by the lower three (3) inch outlet. If the above requirements would result in a pipe smaller than three (3) inches in diameter, the period of retention shall be waived so that three (3) inches will be the minimum pipe size used. It should be remembered that, in all cases, the basin should be considered initially empty (i.e., the storage provided for the quality requirements and the discharge capacity of its outlet should be utilized during the routing of the larger flood control storms).

H. Emergency Spillways.

1. Vegetated emergency spillways shall have side slopes not exceeding three (3) horizontal to one (1) vertical.
2. Emergency spillways not excavated from noncompacted soil shall be suitably lined and shall comply with criteria contained in Standards for Soil Erosion and Sediment Control.
3. Maximum velocities in emergency spillways shall be checked based on the velocity of the peak flow in the spillway resulting from the routed emergency spillway hydrograph. Where maximum velocities exceed those contained in Standards for Soil Erosion and Sediment Control in New Jersey, suitable lining shall be provided.

I. Dams and Embankments.

1. The minimum top widths of all dams and embankments are listed below. These values have been adopted from the Standards for Soil and Sediment Control in New Jersey, published by the New Jersey State Soil Conservation Committee.

MINIMUM TOP WIDTHS FOR DAMS & EMBANKMENTS

Height (feet)	Top Width (feet)
0-15	10
15-20	12
20-25	14

2. The design top elevation of all dams and embankments after all settlement has taken place shall be equal to or greater than the maximum water surface elevation in the basin resulting from the routed freeboard hydrograph. Therefore, the design height of the dam or embankment, defined as the vertical distance from the top down to the bottom of the deepest cut, shall be increased by the amount needed to ensure the design top elevation will be maintained following all settlement. This increase shall not be less than five percent (5%). Where necessary, the Engineer shall require consolidation tests of the undisturbed foundation soil to more accurately determine the necessary increase.
3. Maximum side slopes for all dams and embankments are three (3) horizontal to one (1) vertical.
4. All earth fill shall be free from brush, roots and other organic material subject to decomposition.
5. Cutoff trenches are to be excavated along the dam or embankment center line to impervious subsoil or bedrock.
6. Safety ledges shall be constructed on the side slopes of all detention basins having a permanent pool of water. The ledges shall be four (4) to six (6) feet in width and located approximately two and one-half (2-1/2) to three (3) feet below and one (1) to one and one-half (1-1/2) feet above the permanent water surface.
7. The fill material in all earth dams and embankments shall be compacted to at least ninety-five percent (95%) of the maximum density obtained from compaction tests performed by the appropriate method in ASTM D698.
8. The top of bank for facilities constructed in cut and the toe of slope for facilities constructed in fill shall be located no closer than ten (10) feet to an existing or proposed property line.
9. Detention basins shall be sodded, attractively buffered and landscaped and designed as to minimize propagation of insects, particularly mosquitoes. All landscaping and buffering shall be approved by the City.
- J. Detention Facilities in Flood Hazard Areas. There will be no detention basins in the floodway except for those on-stream and shall comply with all applicable regulations under the Flood Hazard Control Act, N.J.S.A. 58:16A-50 et seq., and the New Jersey Stormwater Management Act, N.J.S.A. 40:55D-93 et seq.
- K. Detention facilities in freshwater wetlands. Detention basins located in freshwater wetlands may be allowed only in accordance with the Freshwater Wetlands Protection Act, N.J.S.A. 13:9B-1 et seq. and any rules adopted pursuant thereto.
- L. Detention Facilities; Maintenance and Repair.
1. Responsibility for operation and maintenance of detention facilities, including periodic removal and disposal of accumulated particulate material and debris, shall remain with the owner or owners of the property with permanent arrangements that it shall pass to any successive owner, unless assumed by a government agency. If portions of the land are to be sold, legally binding arrangements shall be made to pass the basic responsibility to successors in title. These arrangements shall designate for each project the property owner, governmental agency or other legally established entity to be permanently responsible for maintenance, hereinafter in this section referred to as the "responsible person."
2. Prior to granting final approval to any project subject to review under this section, the applicant shall enter into an agreement with the municipality (or County) to ensure the continued operation and maintenance of the detention facility. This agreement shall be in a form satisfactory to Corporation Counsel and may include, but may not necessarily be limited to, personal guaranties, deed restrictions,

covenants and bonds. In cases where property is subdivided and sold separately, a homeowners, association or similar permanent entity should be established as the responsible entity, absent an agreement by a governmental agency to assume responsibility.

- a. An applicant seeking approval for construction of a detention facility shall provide the funds necessary to permanently maintain the facility. The amount necessary to permanently maintain the facility shall be calculated by the Planning Board Engineer based upon current estimates for maintenance with an annual increase of four percent (4%). The Planning Board Engineer shall also assume that the investment will yield a return equal to the ninety-day certificate of deposit interest rate paid by the City fiduciary institution or its successor on the date the calculation is made.
- b. The form of security for the maintenance of the facility shall be approved by Corporation Counsel.
3. In the event that the detention facility becomes a danger to public safety or public health or if it is in need of maintenance, the municipality shall so notify in writing the responsible person. From that notice, the responsible person shall have fourteen (14) days to effect such maintenance and repair of the facility in a manner that is approved by the City Engineer or his designee. If the responsible person fails or refuses to perform such maintenance and repair, the municipality may proceed to do so and shall bid the cost thereof to the responsible person.

M. Division of Coastal Resources.

1. All projects containing stream encroachments within the flood hazard area and one hundred year floodplain, at locations having a drainage area of over fifty (50) acres and all projects of special concern, as defined in N.J.A.C. 7:13-5, are subject to the approval of NJDEP, Division of Coastal Resources.
2. All projects containing a drainage area over fifty (50) acres must establish the one hundred year floodplain zone in accordance with N.J.A.C. 7:13-1.8.

N. The approval of any map of land delineating streets by the Planning Board of the City of Plainfield shall be in no way construed as an acceptance of any street indicated thereon.

O. For both major and minor subdivisions, blocks and lots shall be graded to secure proper drainage away from buildings and to prevent the collection of storm-water in pools.

P. For both major and minor subdivisions, land subject to periodic or occasional flooding (floodplain areas) shall not be plotted for residential occupancy nor for any other purpose which may endanger life or property or aggravate the flood hazard. Such land within a plat shall be considered for open spaces or other similar uses.

Q. Where a minor or major subdivision is traversed by a watercourse, surface or underground drainage way or drainage system, channel or stream, there shall be provided and dedicated a drainage right-of-way easement to the City conforming substantially with the lines of such watercourse and of such further width or construction, or both, as will be adequate to accommodate expected stormwater runoff, fifteen (15) feet beyond the bank top on at least one (1) side for access to the drainage right-of-way and, in any event, meeting any minimum widths and locations shown on the adopted official map or master plan. Such easement dedication shall be expressed on the plat as follows: "Drainage and utility right-of-way easement granted to the City of Plainfield." No relocation, construction or reconstruction shall take place within the area of the easement, nor shall any structures be located within such area, nor shall any action be taken which may alter or impair the effectiveness of present or future drainage facilities or cause soil erosion without prior approving authority or City Council approval.

R. Prohibitions on the Discharge of Storm Drainage and Groundwater.

1. Stormwater, groundwater, rainwater, street drainage, subsurface drainage or yard drainage shall not be discharged through direct or indirect connections of a sump pump, cellar drain or any other means of conveyance into a community sanitary

sewer owned or operated by the Plainfield City Sewer Utility or any sewerage authority.¹

2. Any person who is convicted of violating any provision of this section shall be fined not

1. Editor's Note: The Municipal Utilities Authority was dissolved by Ord. No. MC 2022-21 and a Sewer Utility and Solid Waste Utility were created by Ord. No. MC 2022-22.

less than fifty (\$50.00) dollars for a first offense and not less than one hundred (\$100.00) dollars for each subsequent offense.

§ 17:12-2. Stormwater management for major development.

§ 17:12-2.1. Scope and purpose. [Added 4-12-2021 by Ord. No. MC 2021-14]

A. Policy Statement. Flood control, groundwater recharge, and pollutant reduction shall be achieved through the use of stormwater management measures, including green infrastructure best management practices (GI BMPs) and nonstructural stormwater management strategies. GI BMPs and low-impact development (LID) should be utilized to meet the goal of maintaining natural hydrology to reduce stormwater runoff volume, reduce erosion, encourage infiltration and groundwater recharge, and reduce pollution. GI BMPs and LID should be developed based upon physical site conditions and the origin, nature and the anticipated quantity, or amount, of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge.

B. Purpose. The purpose of this section is to establish minimum stormwater management requirements and controls for "major development," as defined in § 17:12-2.2.

C. Applicability.

1. This section shall be applicable to the following major developments:

- a. Nonresidential major developments; and
- b. Aspects of residential major developments that are not pre-empted by the Residential Site Improvement Standards at N.J.A.C. 5:21.

2. This section shall also be applicable to all major developments undertaken by the City of Plainfield.

3. An application required by ordinance pursuant to C.1 above that has been submitted prior to April 12, 2021, shall be subject to the stormwater management requirements in effect on April 11, 2021.

4. An application required by ordinance for approval pursuant to (b)1 above that has been submitted on or after March 2, 2021, but prior to April 12, 2021, shall be subject to the stormwater management requirements in effect on April 11, 2021.

5. Notwithstanding any rule to the contrary, a major development for any public roadway or railroad project conducted by a public transportation entity that has determined a preferred alternative or reached an equivalent milestone before July 17, 2023, shall be subject to the stormwater management requirements in effect prior to July 17, 2023.

D. Compatibility with Other Permit and Ordinance Requirements. Development approvals issued pursuant to this section are to be considered an integral part of development approvals and do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act, or ordinance. In their interpretation and application, the provisions of this section shall be held to be the minimum requirements for the promotion of the public health, safety, and general welfare. This section is not intended to interfere with, abrogate, or annul any other ordinances, rule or regulation, statute, or other provision of law except that, where any provision of this section imposes restrictions different from those imposed by any other ordinance, rule or regulation, or other provision of law, the more restrictive provisions or higher standards shall control.

§ 17:12-2.2. Definitions. [Added 4-12-2021 by Ord. No. MC 2021-14]

For the purpose of this section, the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this section clearly demonstrates a different meaning. When not inconsistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number.

The word "shall" is always mandatory and not merely directory. The definitions below are the same as or based on the corresponding definitions in the Stormwater Management Rules at N.J.A.C. 7:8-1.2.

CAFRA CENTERS, CORES OR NODES — Those areas with boundaries incorporated by reference or revised by the Department in accordance with N.J.A.C. 7:7-13.16.

CAFRA PLANNING MAP — The map used by the Department to identify the location of Coastal Planning Areas, CAFRA centers, CAFRA cores, and CAFRA nodes. The CAFRA Planning Map is available on the Department's Geographic Information System (GIS).

COMMUNITY BASIN — An infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond, established in accordance with N.J.A.C. 7:8-4.2(c)14, that is designed and constructed in accordance with the New Jersey Stormwater Best Management Practices Manual, or an alternate design, approved in accordance with N.J.A.C. 7:8-5.2(g), for an infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond and that complies with the requirements of this section.

COMPACTION — The increase in soil bulk density.

CONTRIBUTORY DRAINAGE AREA — The area from which stormwater runoff drains to a stormwater management measure, not including the area of the stormwater management measure itself.

CORE — A pedestrian-oriented area of commercial and civic uses serving the surrounding municipality, generally including housing and access to public transportation.

COUNTY REVIEW AGENCY — An agency designated by the County Commissioners to review municipal stormwater management plans and implementing ordinance(s). The county review agency may either be:

- A. A county planning agency; or
- B. A county water resource association created under N.J.S.A. 58:16A-55.5, if the ordinance or resolution delegates authority to approve, conditionally approve, or disapprove municipal stormwater management plans and implementing ordinances.

DEPARTMENT — The Department of Environmental Protection.

DESIGN ENGINEER — A person professionally qualified and duly licensed in New Jersey to perform engineering services that may include, but not necessarily be limited to, development of project requirements, creation and development of project design and preparation of drawings and specifications.

DESIGNATED CENTER — A State Development and Redevelopment Plan Center as designated by the State Planning Commission such as urban, regional, town, village, or hamlet.

DEVELOPMENT — The division of a parcel of land into two or more parcels, the construction, reconstruction, conversion, structural alteration, relocation or enlargement of any building or structure, any mining excavation or landfill, and any use or change in the use of any building or other structure, or land or extension of use of land, for which permission is required under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. In the case of development of agricultural land, "development" means: any activity that requires a state permit, any activity reviewed by the

County Agricultural Board (CAB) and the State Agricultural Development Committee (SADC), and municipal review of any activity not exempted by the Right to Farm Act, N.J.S.A. 4:1C-1 et seq.

DISTURBANCE — The placement or reconstruction of impervious surface or motor vehicle surface, or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Milling and repaving is not considered disturbance for the purposes of this definition.

DRAINAGE AREA — A geographic area within which stormwater, sediments, or dissolved materials drain to a particular receiving waterbody or to a particular point along a receiving waterbody.

EMPOWERMENT NEIGHBORHOODS — Neighborhoods designated by the Urban Coordinating Council "in consultation and conjunction with" the New Jersey Redevelopment Authority pursuant to N.J.S.A. 55:19-69.

ENVIRONMENTALLY CONSTRAINED AREA — The following areas where the physical alteration of the land is in some way restricted, either through regulation, easement, deed

restriction or ownership such as: wetlands, floodplains, threatened and endangered species sites or designated habitats, and parks and preserves. Habitats of endangered or threatened species are identified using the Department's Landscape Project as approved by the Department's Endangered and Nongame Species Program.

ENVIRONMENTALLY CRITICAL AREA — An area or feature which is of significant environmental value, including but not limited to: stream corridors, natural heritage priority sites, habitats of endangered or threatened species, large areas of contiguous open space or upland forest, steep slopes, and well head protection and groundwater recharge areas. Habitats of endangered or threatened species are identified using the Department's Landscape Project as approved by the Department's Endangered and Nongame Species Program.

EROSION — The detachment and movement of soil or rock fragments by water, wind, ice, or gravity.

GREEN INFRASTRUCTURE — A stormwater management measure that manages stormwater close to its source by:

- A. Treating stormwater runoff through infiltration into subsoil;
- B. Treating stormwater runoff through filtration by vegetation or soil; or
- C. Storing stormwater runoff for reuse.

HUC 14 or HYDROLOGICAL UNIT CODE 14 — An area within which water drains to a particular receiving surface water body, also known as a sub-watershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

IMPERVIOUS SURFACE — A surface that has been covered with a layer of material so that it is highly resistant to infiltration by water.

INFILTRATION — The process by which water seeps into the soil from precipitation.

LEAD PLANNING AGENCY — One or more public entities having stormwater management planning authority designated by the regional stormwater management planning committee pursuant to N.J.A.C. 7:8-3.2, that serves as the primary representative of the committee.

MAJOR DEVELOPMENT — An individual "development," as well as multiple developments that individually or collectively result in:

- A. The disturbance of one or more acres of land since February 2, 2004;
- B. The creation of 10,000 square feet or more of regulated impervious surface since February 2, 2004;
- C. The creation of 10,000 square feet or more of regulated motor vehicle surface since March 2, 2021;
- D. A combination of B and C above that totals an area of 10,000 square feet or more. The same surface shall not be counted twice when determining if the combination area equals 10,000 square feet or more.

Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually meet any one or more of paragraphs A, B, C or D above. Projects undertaken by any government agency that 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.

MOTOR VEHICLE — Land vehicles propelled other than by muscular power, such as automobiles, motorcycles, autocycles, and low speed vehicles. For the purposes of this definition, "motor vehicle" does not include farm equipment, snowmobiles, all-terrain vehicles, motorized wheelchairs, go-carts, gas buggies, golf carts, ski-slope grooming machines, or vehicles that run only on rails or tracks.

MOTOR VEHICLE SURFACE — Any pervious or impervious surface that is intended to be used by "motor vehicles" and/or aircraft, and is directly exposed to precipitation including, but not limited to, driveways, parking areas, parking garages, roads, racetracks, and runways.

MUNICIPALITY — Any city, borough, town, township, or village.

NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES (BMP) MANUAL or **BMP MANUAL** — The manual maintained by the Department providing, in part, design specifications, removal rates, calculation methods, and soil testing procedures approved by the Department as being capable of contributing to the achievement of the stormwater management standards specified in this section. The BMP Manual is periodically amended by the Department as necessary to provide design specifications on additional best management practices and new information on already included practices reflecting the best available current information regarding the particular practice and the Department's determination as to the ability of that best management practice to contribute to compliance with the standards contained in this section. Alternative stormwater management measures, removal rates, or calculation methods may be utilized, subject to any limitations specified in this section, provided the design engineer demonstrates to the municipality, in accordance with § 17:12-2.4F and N.J.A.C. 7:8-5.2(g), that the proposed measure and its design will contribute to achievement of the design and performance standards established by this section.

NODE — An area designated by the State Planning Commission concentrating facilities and activities which are not organized in a compact form.

NUTRIENT — A chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the development of organisms.

POLLUTANT — Any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, medical wastes, radioactive substance (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. Section 2011 et seq.)), thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, industrial, municipal, agricultural, and construction waste or runoff, or other residue discharged directly or indirectly to the land, ground waters or surface waters of the State, or to a domestic treatment works. "Pollutant" includes both hazardous and nonhazardous pollutants.

PUBLIC ROADWAY OR RAILROAD — A pathway for use by motor vehicles or trains that is intended for public use and is constructed by, or on behalf of, a public transportation entity. A public roadway or railroad does not include a roadway or railroad constructed as part of a private development, regardless of whether the roadway or railroad is ultimately to be dedicated to and/or maintained by a governmental entity.

PUBLIC TRANSPORTATION ENTITY — A Federal, State, county, or municipal government, an independent State authority, or a statutorily authorized public-private partnership program pursuant to P.L. 2018, c. 90 (N.J.S.A. 40A:11-52 et seq.), that performs a public roadway or railroad project that includes new construction, expansion, reconstruction, or improvement of a public roadway or railroad.

RECHARGE — The amount of water from precipitation that infiltrates into the ground and is not evapotranspired.

REGULATED IMPERVIOUS SURFACE — Any of the following, alone or in combination:

- A. A net increase of impervious surface;
- B. The total area of impervious surface collected by a new stormwater conveyance system (for the purpose of this definition, a "new stormwater conveyance system" is a stormwater conveyance system that is constructed where one did not exist immediately prior to its construction or an existing system for which a new discharge location is created);
- C. The total area of impervious surface proposed to be newly collected by an existing stormwater conveyance system; and/or
- D. The total area of impervious surface collected by an existing stormwater conveyance system where the capacity of that conveyance system is increased.

REGULATED MOTOR VEHICLE SURFACE — Any of the following, alone or in combination:

- A. The total area of motor vehicle surface that is currently receiving water;
- B. A net increase in motor vehicle surface; and/or quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater

treatment plant, where the water quality treatment will be modified or removed.

SEDIMENT — Solid material, mineral or organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water or gravity as a product of erosion.

SITE — The lot or lots upon which a major development is to occur or has occurred.

SOIL — All unconsolidated mineral and organic material of any origin.

STATE DEVELOPMENT AND REDEVELOPMENT PLAN METROPOLITAN PLANNING AREA (PA1) — An area delineated on the State Plan Policy Map and adopted by the State Planning Commission that is intended to be the focus for much of the State's future redevelopment and revitalization efforts.

STATE PLAN POLICY MAP — The geographic application of the State Development and Redevelopment Plan's goals and statewide policies, and the official map of these goals and policies.

STORMWATER — Water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, or is captured by separate storm sewers or other sewage or drainage facilities, or conveyed by snow removal equipment.

STORMWATER MANAGEMENT BMP — An excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management BMP may either be normally dry (that is, a detention basin or infiltration system), retain water in a permanent pool (a retention basin), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

STORMWATER MANAGEMENT MEASURE — Any 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 PLANNING AGENCY — A public body authorized by legislation to prepare stormwater management plans.

STORMWATER MANAGEMENT PLANNING AREA — The geographic area for which a stormwater management planning agency is authorized to prepare stormwater management plans, or a specific portion of that area identified in a stormwater management plan prepared by that agency.

STORMWATER RUNOFF — Water flow on the surface of the ground or in storm sewers, resulting from precipitation.

TIDAL FLOOD HAZARD AREA — A flood hazard area in which the flood elevation resulting from the two-, 10-, or 100-year storm, as applicable, is governed by tidal flooding from the Atlantic Ocean. Flooding in a tidal flood hazard area may be contributed to, or influenced by, stormwater runoff from inland areas, but the depth of flooding generated by the tidal rise and fall of the Atlantic Ocean is greater than flooding from any fluvial sources. In some situations, depending upon the extent of the storm surge from a particular storm event, a flood hazard area may be tidal in the 100-year storm, but fluvial in more frequent storm events.

URBAN COORDINATING COUNCIL EMPOWERMENT NEIGHBORHOOD — A neighborhood given priority access to State resources through the New Jersey Redevelopment Authority.

URBAN ENTERPRISE ZONES — A zone designated by the New Jersey Enterprise Zone Authority pursuant to the New Jersey Urban Enterprise Zones Act, N.J.S.A. 52:27H-60 et. seq.

URBAN REDEVELOPMENT AREA — Previously developed portions of areas:

- A. Delineated on the State Plan Policy Map (SPPM) as the Metropolitan Planning Area (PA1), Designated Centers, Cores or Nodes;
- B. Designated as CAFRA Centers, Cores or Nodes;
- C. Designated as Urban Enterprise Zones; and
- D. Designated as Urban Coordinating Council Empowerment Neighborhoods.

WATER CONTROL STRUCTURE — A structure within, or adjacent to, a water, which intentionally or coincidentally alters the hydraulic capacity, the flood elevation resulting from the two-, 10-, or 100-year storm, flood hazard area limit, and/or floodway limit of the water. Examples of a water control structure may include a bridge, culvert, dam,

embankment, ford (if above grade), retaining wall, and weir.

WATERS OF THE STATE — The ocean and its estuaries, all springs, streams, wetlands, and bodies of surface or groundwater, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction.

WETLANDS or WETLAND — An area that is inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions, commonly known as hydrophytic vegetation.

§ 17:12-2.3. General Standards. [Added 4-12-2021 by Ord. No. MC 2021-14]

- A. Stormwater management measures for major development shall be designed to provide erosion control, groundwater recharge, stormwater runoff quantity control, and stormwater runoff quality treatment as follows:
 - 1. The minimum standards for erosion control are those established under the Soil and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules at N.J.A.C. 2:90.
 - 2. The minimum standards for groundwater recharge, stormwater quality, and stormwater runoff quantity shall be met by incorporating green infrastructure.
- B. The standards in this section apply only to new major development and are intended to minimize the impact of stormwater runoff on water quality and water quantity in receiving water bodies and maintain groundwater recharge. The standards do not apply to new major development to the extent that alternative design and performance standards are applicable under a regional stormwater management plan or Water Quality Management Plan adopted in accordance with Department rules. The stormwater management requirements within this section, as they relate to "major development" supersede other design requirements stipulated in the City Code, including but not limited to the following sections:
 - 1. Chapter 17, Article XI, Site Plan and Subdivision Design and Performance Standards.
 - 2. Chapter 17, Article XII, Stormwater Management.
 - a. Section 17:12-1, A-F (Runoff Volume Calculations).
 - b. Section 17:12-1, J (Detention Facilities).
 - c. Section 17:12-1, K (Protecting Water Quality).
 - d. Section 17:12-1, R (Detention Facilities Maintenance and Repair).

§ 17:12-2.4. Stormwater Management Requirements for Major Development. [Added 4-12-2021 by Ord. No. MC 2021-14]

- A. The development shall incorporate a maintenance plan for the stormwater management measures incorporated into the design of a major development in accordance with § 17:12-2.10.
- B. Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Department's Landscape Project or 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).
- C. The following linear development projects are exempt from the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity requirements of § 17:12-2.4P, Q and R.
 - 1. The construction of an underground utility line provided that the disturbed areas are revegetated upon completion;
 - 2. The construction of an aboveground utility line provided that the existing conditions are maintained to the maximum extent practicable; and
 - 3. The construction of a public pedestrian access, such as a sidewalk or trail with a maximum width of 14 feet, provided that the access is made of permeable material.

D. A waiver from strict compliance from the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity requirements of § 17:12-2.4O, P, Q and R may be obtained for the enlargement of an existing public roadway or railroad; or the construction or enlargement of a public pedestrian access, provided that the following conditions are met:

1. The applicant demonstrates that there is a public need for the project that cannot be accomplished by any other means;
2. The applicant demonstrates through an alternatives analysis, that through the use of stormwater management measures, the option selected complies with the requirements of § 17:12-2.4O, P, Q and R to the maximum extent practicable;
3. The applicant demonstrates that, in order to meet the requirements of § 17:12-2.4O, P, Q and R existing structures currently in use, such as homes and buildings, would need to be condemned; and
4. The applicant demonstrates that it does not own or have other rights to areas, including the potential to obtain through condemnation lands not falling under § 17:12-2.4D3 above within the upstream drainage area of the receiving stream, that would provide additional opportunities to mitigate the requirements of § 17:12-2.4O, P, Q and R that were not achievable onsite.

E. Tables 1 through 3 below summarize the ability of stormwater best management practices identified and described in the New Jersey Stormwater Best Management Practices Manual to satisfy the green infrastructure, groundwater recharge, stormwater runoff quality and stormwater runoff quantity standards specified in § 17:12-2.4O, P, Q and R. When designed

in accordance with the most current version of the New Jersey Stormwater Best Management Practices Manual, the stormwater management measures found at N.J.A.C. 7:8-5.2(f) Tables 5-1, 5-2 and 5-3 and listed below in Tables 1, 2 and 3 are presumed to be capable of providing stormwater controls for the design and performance standards as outlined in the tables below. Upon amendments of the New Jersey Stormwater Best Management Practices to reflect additions or deletions of BMPs meeting these standards, or changes in the presumed performance of BMPs designed in accordance with the New Jersey Stormwater BMP Manual, the Department shall publish in the New Jersey Registers a notice of administrative change revising the applicable table. The most current version of the BMP Manual can be found on the Department's website at: <https://njstormwater.org/bmp_manual2.htm>.

F. Where the BMP tables in the NJ Stormwater Management Rule are different due to updates or amendments with the tables in this section the BMP Tables in the Stormwater Management rule at N.J.A.C. 7:8-5.2(f) shall take precedence.

Table 1 Green Infrastructure BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity				
Best Management Practice	Stormwater Runoff Quality TSS Removal Rate (percent)	Stormwater Runoff Quantity	Groundwater Recharge	Minimum Separation from Seasonal High-Water Table (feet)
Cistern	0	Yes	No	—
Dry Well ^(a)	0	No	Yes	2
Grass Swale	50 or less	No	No	2 ^(e) 1 ^(f)
Green Roof	0	Yes	No	—
Manufactured Treatment Device ^{(a)(e)}	50 or 80	No	No	Dependent upon the device
Pervious Paving System ^(a)	80	Yes	Yes ^(b) No ^(c)	2 ^(b) 1 ^(c)

Small-Scale Bioretention Basin ^(a)	80 or 90	Yes	Yes ^(b) No ^(c)	2 ^(b) 1 ^(c)
Small-Scale Infiltration Basin ^(a)	80	Yes	Yes	2
Small-Scale Sand Filter	80	Yes	Yes	2

Table 1 Green Infrastructure BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity				
Best Management Practice	Stormwater Runoff Quality TSS Removal Rate (percent)	Stormwater Runoff Quantity	Groundwater Recharge	Minimum Separation from Seasonal High-Water Table (feet)
Vegetative Filter Strip	60-80	No	No	—

(Notes corresponding to annotations ^(a) through ^(e) are found below Table 3)

Table 2 Green Infrastructure BMPs for Stormwater Runoff Quantity (or for Groundwater Recharge and/or Stormwater Runoff Quality with a Waiver or Variance from N.J.A.C. 7:8-5.3)				
Best Management Practice	Stormwater Runoff Quality TSS Removal Rate (percent)	Stormwater Runoff Quantity	Groundwater Recharge	Minimum Separation from Seasonal High-Water Table (feet)
Bioretention System	80 or 90	Yes	Yes ^(b) No ^(c)	2 ^(b) 1 ^(c)
Infiltration Basin	80	Yes	Yes	2
Sand Filter ^(b)	80	Yes	Yes	2
Standard Constructed Wetland	90	Yes	No	N/A
Wet Pond ^(d)	50-90	Yes	No	N/A

(Notes corresponding to annotations ^(b) through ^(d) are found below Table 3)

Table 3 BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity only with a Waiver or Variance from N.J.A.C. 7:8-5.3				
Best Management Practice	Stormwater Runoff Quality TSS Removal Rate (percent)	Stormwater Runoff Quantity	Groundwater Recharge	Minimum Separation from Seasonal High-Water Table (feet)
Blue Roof	0	Yes	No	N/A
Extended Detention Basin	40-60	Yes	No	1
Manufactured Treatment Device ^(b)	50 or 80	No	No	Dependent upon the device
Sand Filter ^(c)	80	Yes	No	1
Subsurface Gravel Wetland	90	No	No	1

Wet Pond	50-90	Yes	No	N/A
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Notes to Tables 1, 2, and 3:

- (a) Subject to the applicable contributory drainage area limitation specified at section § 17:12-2.4O2;
- (b) Designed to infiltrate into the subsoil;
- (c) Designed with underdrains;
- (d) Designed to maintain at least a 10-foot-wide area of native vegetation along at least 50% of the shoreline and to include a stormwater runoff retention component designed to capture stormwater runoff for beneficial reuse, such as irrigation;
- (e) Designed with a slope of less than 2%;
- (f) Designed with a slope of equal to or greater than 2%;
- (g) Manufactured treatment devices that meet the definition of green infrastructure at § 17:12-2.2;
- (h) Manufactured treatment devices that do not meet the definition of green infrastructure at § 17:12-2.2.

G. An alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate may be used if the design engineer demonstrates the capability of the proposed alternative stormwater management measure and/or the validity of the alternative rate or method to the municipality. A copy of any approved alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate shall be provided to the Department in accordance with § 17:12-2.6B. Alternative stormwater management measures may be used to satisfy the requirements at § 17:12-2.4O only if the measures meet the definition of green infrastructure at § 17:12-2.2. Alternative stormwater management measures that function in a similar manner to a BMP listed at § 17:12-2.4O2 are subject to the contributory drainage area limitation specified at § 17:12-2.4O2 for that similarly functioning BMP. Alternative stormwater management measures approved in accordance with this subsection that do not function in a similar manner to any BMP listed at § 17:12-2.4O2 shall have a contributory drainage area less than or equal to 2.5 acres, except for alternative stormwater management measures that function similarly to cisterns, grass swales, green roofs, standard constructed wetlands, vegetative filter strips, and wet ponds, which are not subject to a contributory drainage area limitation. Alternative measures that function similarly to standard constructed wetlands or wet ponds shall not be used for compliance with the stormwater runoff quality standard unless a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with § 17:12-2.4D is granted from § 17:12-2.4O.

H. Whenever the stormwater management design includes one or more BMPs that will infiltrate stormwater into subsoil, the design engineer shall assess the hydraulic impact on the groundwater table and design the site, so as to avoid adverse hydraulic impacts. Potential adverse hydraulic impacts include, but are not limited to, exacerbating a naturally or seasonally high-water table, so as to cause surficial ponding, flooding of basements, or interference with the proper operation of subsurface sewage disposal systems or other subsurface structures within the zone of influence of the groundwater mound, or interference with the proper functioning of the stormwater management measure itself.

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I. Design standards for stormwater management measures are as follows:

1. Stormwater management measures shall be designed to take into account the existing site conditions, including, but not limited to, environmentally critical areas; wetlands; flood-prone areas; slopes; depth to seasonal high-water table; soil type, permeability, and texture; drainage area and drainage patterns; and the presence of solution-prone carbonate rocks (limestone);
2. Stormwater management measures shall be designed to minimize maintenance, facilitate maintenance and repairs, and ensure proper functioning. Trash racks shall be installed at the intake to the outlet structure, as appropriate, and shall have parallel bars with one-inch spacing between the bars to the elevation of the water quality design storm. For elevations higher than the water quality design storm, the parallel bars at the outlet structure shall be spaced no greater than one-third the width of the diameter of the

orifice or one-third the width of the weir, with a minimum spacing between bars of one inch and a maximum spacing between bars of six inches. In addition, the design of trash racks must comply with the requirements of § 17:12-2.8C;

3. Stormwater management measures shall be designed, constructed, and installed to be strong, durable, and corrosion resistant. Measures that are consistent with the relevant portions of the Residential Site Improvement Standards at N.J.A.C. 5:21-7.3, 7.4, and 7.5 shall be deemed to meet this requirement;
4. Stormwater management BMPs shall be designed to meet the minimum safety standards for stormwater management BMPs at § 17:12-2.8; and
5. The size of the orifice at the intake to the outlet from the stormwater management BMP shall be a minimum of two and one-half inches in diameter.

J. Manufactured treatment devices may be used to meet the requirements of this subchapter, provided the pollutant removal rates are verified by the New Jersey Corporation for Advanced Technology and certified by the Department. Manufactured treatment devices that do not meet the definition of green infrastructure at § 17:12-2.2 may be used only under the circumstances described at § 17:12-2.4O4;

K. Any application for a new agricultural development that meets the definition of major development at § 17:12-2.2 shall be submitted to the Soil Conservation District for review and approval in accordance with the requirements at § 17:12-2.4O, P, Q and R and any applicable Soil Conservation District guidelines for stormwater runoff quantity and erosion control. For purposes of this subsection, "agricultural development" means land uses normally associated with the production of food, fiber, and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacture of agriculturally related products.

L. If there is more than one drainage area, the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 17:12-2.4P, Q and R shall be met in each drainage area, unless the runoff from the drainage areas converge onsite and no adverse environmental impact would occur as a result of compliance with any one or more of the individual standards being determined utilizing a weighted average of the results achieved for that individual standard across the affected drainage areas.

M. Any stormwater management measure authorized under the municipal stormwater management plan or ordinance shall be reflected in a deed notice recorded in the County Clerk's office. A form of deed notice shall be submitted to the municipality for approval prior to filing. The deed notice shall contain a description of the stormwater management measure(s) used to meet the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 17:12-2.4O, P, Q and R and shall identify the location of the stormwater management measure(s) in NAD 1983 State Plane New Jersey FIPS 2900 US Feet or Latitude and Longitude in decimal degrees. The deed notice shall also reference the maintenance plan required to be recorded upon the deed pursuant to § 17:12-2.10B5. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality. Proof that the required information has been recorded on the deed shall be in the form of either a copy of

the complete recorded document or a receipt from the clerk or other proof of recording.³ ~~provided by the recording office.~~ However, if the initial proof provided to the municipality is not a copy of the complete recorded document, a copy of the complete recorded document shall be provided to the municipality within 180 calendar days of the authorization granted by the municipality.

N. A stormwater management measure approved under the municipal stormwater management plan or ordinance may be altered or replaced with the approval of the municipality, if the municipality determines that the proposed alteration or replacement meets the design and performance standards pursuant to § 17:12-2.4 of this section and provides the same level of stormwater management as the previously approved stormwater management measure that is being altered or replaced. If an alteration or replacement is approved, a revised deed notice shall be submitted to the municipality for approval and subsequently recorded with the County Clerk's office and shall contain a description and location of the stormwater management measure, as well as reference to the maintenance plan, in accordance with

§ 17:12-2.4M above. Prior to the commencement of construction, proof that the above

required deed notice has been filed shall be submitted to the municipality in accordance with § 17:12-2.4M above.

O. Green Infrastructure Standards.

- 1. This subsection specifies the types of green infrastructure BMPs that may be used to satisfy the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards.**
- 2. To satisfy the groundwater recharge and stormwater runoff quality standards at § 17:12-2.4P and Q, the design engineer shall utilize green infrastructure BMPs identified in Table 1 at § 17:12-2.4F and/or an alternative stormwater management measure approved in accordance with § 17:12-2.4G. The following green infrastructure BMPs are subject to the following maximum contributory drainage area limitations:**

Best Management Practice	Maximum Contributory Drainage Area
Dry Well	1 acre
Manufactured Treatment Device	2.5 acres
Pervious Pavement Systems	Area of additional inflow cannot exceed three times the area occupied by the BMP
Small-scale Bioretention Systems	2.5 acres
Small-scale Infiltration Basin	2.5 acres
Small-scale Sand Filter	2.5 acres

3. To satisfy the stormwater runoff quantity standards at § 17:12-2.4R, the design engineer shall utilize BMPs from Table 1 or from Table 2 and/or an alternative stormwater management measure approved in accordance with § 17:12-2.4G.
4. If a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with § 17:12-2.4D is granted from the requirements of this subsection, then BMPs from Table 1, 2, or 3, and/or an alternative stormwater management measure approved in accordance with § 17:12-2.4G may be used to meet the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 17:12-2.4P, Q and R.

- 5. For separate or combined storm sewer improvement projects, such as sewer separation, undertaken by a government agency or public utility (for example, a sewerage company), the requirements of this subsection shall only apply to areas owned in fee simple by the government agency or utility, and areas within a right-of-way or easement held or controlled by the government agency or utility; the entity shall not be required to obtain additional property or property rights to fully satisfy the requirements of this subsection. Regardless of the amount of area of a separate or combined storm sewer improvement project subject to the green infrastructure requirements of this subsection, each project shall fully comply with the applicable groundwater recharge, stormwater runoff quality control, and stormwater runoff quantity standards at § 17:12-2.4P, Q and R unless the project is granted a waiver from strict compliance in accordance with § 17:12-2.4D.**

P. Groundwater Recharge Standards.

- 1. This subsection contains the minimum design and performance standards for groundwater recharge as follows.**
- 2. The design engineer shall, using the assumptions and factors for stormwater runoff and groundwater recharge calculations at § 17:12-2.5, either:**
 - a. Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100% of the average annual pre-construction groundwater recharge volume for the site; or**

- b. Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from pre-construction to post-construction for the 2-year storm is infiltrated.
3. This groundwater recharge requirement does not apply to projects within the "urban redevelopment area," or to projects subject to § 17:12-2.4P4 below.
4. The following types of storm water shall not be recharged:
- a. Stormwater from areas of high pollutant loading. High pollutant loading areas are areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored, or applied, areas where pesticides are loaded/ unloaded or stored; areas where hazardous materials are expected to be present in greater than "reportable quantities" as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with Department approved remedial action work plan or landfill closure plan and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities; and
 - b. Industrial stormwater exposed to "source material." "Source material" means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

Q. Stormwater Runoff Quality Standards.

- 1. This subsection contains the minimum design and performance standards to control stormwater runoff quality impacts of major development. Stormwater runoff quality standards are applicable when the major development results in an increase ¼ of an acre or more of regulated motor vehicle surface.
- 2. Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm as follows:
 - a. Eighty percent TSS removal of the anticipated load, expressed as an annual average shall be achieved for the stormwater runoff from the net increase of motor vehicle surface.
 - b. If the surface is considered regulated motor vehicle surface because the water quality treatment for an area of motor vehicle surface that is currently receiving water quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant is to be modified or removed, the project shall maintain or increase the existing TSS removal of the anticipated load expressed as an annual average.

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- 3. The requirement to reduce TSS does not apply to any stormwater runoff in a discharge regulated under a numeric effluent limitation for TSS imposed under the New Jersey Pollutant Discharge Elimination System (NJPDES) rules, N.J.A.C. 7:14A, or in a discharge specifically exempt under a NJPDES permit from this requirement. Every major development, including any that discharge into a combined sewer system, shall comply with paragraph 2 above, unless the major development is itself subject to a NJPDES permit with a numeric effluent limitation for TSS or the NJPDES permit to which the major development is subject exempts the development from a numeric effluent limitation for TSS.**
4. The water quality design storm is 1.25 inches of rainfall in two hours. Water quality calculations shall take into account the distribution of rain from the water quality design storm, as reflected in Table 4, below. The calculation of the volume of runoff may take into account the implementation of stormwater management measures.

Table 4 - Water Quality Design Storm Distribution

Time (Minutes)	Cumulativ e Rainfall (Inches)	Time (Minutes)	Cumulativ e Rainfall (Inches)	Time (Minutes)	Cumulativ e Rainfall (Inches)
1	0.00166	41	0.1728	81	1.0906
2	0.00332	42	0.1796	82	1.0972
3	0.00498	43	0.1864	83	1.1038
4	0.00664	44	0.1932	84	1.1104
5	0.00830	45	0.2000	85	1.1170
6	0.00996	46	0.2117	86	1.1236
7	0.01162	47	0.2233	87	1.1302
8	0.01328	48	0.2350	88	1.1368
9	0.01494	49	0.2466	89	1.1434
10	0.01660	50	0.2583	90	1.1500
11	0.01828	51	0.2783	91	1.1550
12	0.01996	52	0.2983	92	1.1600
13	0.02164	53	0.3183	93	1.1650
14	0.02332	54	0.3383	94	1.1700
15	0.02500	55	0.3583	95	1.1750
16	0.03000	56	0.4116	96	1.1800
17	0.03500	57	0.4650	97	1.1850
18	0.04000	58	0.5183	98	1.1900
19	0.04500	59	0.5717	99	1.1950
20	0.05000	60	0.6250	100	1.2000
21	0.05500	61	0.6783	101	1.2050
22	0.06000	62	0.7317	102	1.2100
23	0.06500	63	0.7850	103	1.2150
24	0.07000	64	0.8384	104	1.2200
25	0.07500	65	0.8917	105	1.2250
26	0.08000	66	0.9117	106	1.2267
27	0.08500	67	0.9317	107	1.2284
28	0.09000	68	0.9517	108	1.2300
29	0.09500	69	0.9717	109	1.2317

Table 4 - Water Quality Design Storm Distribution

Time (Minutes)	Cumulative		Time		Cumulative		Time		Cumulative	
	Rainfall (Inches)		(Minutes)		Rainfall (Inches)		(Minutes)		Rainfall (Inches)	
30	0.10000		70		0.9917		110		1.2334	
31	0.10660		71		1.0034		111		1.2351	
32	0.11320		72		1.0150		112		1.2367	
33	0.11980		73		1.0267		113		1.2384	
34	0.12640		74		1.0383		114		1.2400	
35	0.13300		75		1.0500		115		1.2417	
36	0.13960		76		1.0568		116		1.2434	
37	0.14620		77		1.0636		117		1.2450	
38	0.15280		78		1.0704		118		1.2467	
39	0.15940		79		1.0772		119		1.2483	
40	0.16600		80		1.0840		120		1.2500	

5. If more than one BMP in series is necessary to achieve the required 80% TSS reduction for a site, the applicant shall utilize the following formula to calculate TSS reduction:

$$R = A + B - (A \times B) / 100$$

Where:

R	=	total TSS percent load removal from application of both BMPs
A	=	the TSS percent removal rate applicable to the first BMP
B	=	the TSS percent removal rate applicable to the second BMP

If there is more than one on-site drainage area, the 80% TSS removal rate shall apply to each drainage area, unless the runoff from the subareas converge on site in which case the removal rate can be demonstrated through a calculation using a weighted average.

6. Stormwater management measures shall also be designed to reduce, to the maximum extent feasible, the post-construction nutrient load of the anticipated load from the developed site in stormwater runoff generated from the water quality design storm. In achieving reduction of nutrients to the maximum extent feasible, the design of the site shall include green infrastructure BMPs that optimize nutrient removal while still achieving the performance standards in § 17:12-2.4P, Q and R.

7. In accordance with the definition of FW1 at N.J.A.C. 7:9B-1.4, stormwater management measures shall be designed to prevent any increase in stormwater runoff to waters classified as FW1.

8. The Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-4.1(c)1 establish 300-foot riparian zones along Category One waters, as designated in the Surface Water Quality Standards at N.J.A.C. 7:9B, and certain upstream tributaries to Category One waters. A person shall not undertake a major development that is located within or discharges into a 300-foot riparian zone without prior authorization from the Department under N.J.A.C. 7:13.

9. Pursuant to the Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-11.2(j)3.i, runoff from the water quality design storm that is discharged within a 300-foot riparian zone shall be treated in accordance with this subsection to reduce the post-construction load of total suspended solids by 95% of the anticipated load from the developed site, expressed as an annual average.
10. This stormwater runoff quality standards do not apply to the construction of one individual single-family dwelling, provided that it is not part of a larger development or subdivision that has received preliminary or final site plan approval prior to December 3, 2018, and that the motor vehicle surfaces are made of permeable material(s) such as gravel, dirt, and/or shells.
11. Special water resource protection areas shall be established along all waters designated Category One at N.J.A.C. 7:9B, and perennial or intermittent streams that drain into or upstream of the Category One waters as shown on the USGS Quadrangle Maps or in the County Soil Surveys, within the associated HUC14 drainage area. These areas shall be established for the protection of water quality, aesthetic value, exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, and exceptional fisheries significance of those established Category One waters. These areas shall be designated and protected as follows:
- a. The applicant shall preserve and maintain a special water resource protection area in accordance with one of the following:
- (1) A 300-foot special water resource protection area shall be provided on each side of the waterway, measured perpendicular to the waterway from the top of the bank outwards or from the center line of the waterway where the bank is not defined, consisting of existing vegetation or vegetation allowed to follow natural succession is provided.
- (2) Encroachment within the designated special water resource protection area under paragraph (1) above shall only be allowed where previous development or disturbance has occurred (for example, active agricultural use, parking area or maintained lawn area). The encroachment shall only be allowed where applicant demonstrates that the functional value and overall condition of the special water resource protection area will be maintained to the maximum extent practicable. In no case shall the remaining special water resource protection area be reduced to less than 150 feet as measured perpendicular to the top of bank of the waterway or center line of the waterway where the bank is undefined. All encroachments proposed under this subparagraph shall be subject to review and approval by the Department.
- b. All stormwater shall be discharged outside of and flow through the special water resource protection area and shall comply with the Standard for Off-Site Stability in the "Standards for Soil Erosion and Sediment Control in New Jersey," established under the Soil Erosion and Sediment Control in New Jersey, N.J.S.A. 4:24-39 et seq.
- c. If stormwater discharged outside of and flowing through the special water resource protection area cannot comply with the Standard for Off-Site Stability in the "Standards for Soil Erosion and Sediment Control in New Jersey," established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., then the stabilization measures in accordance with the requirements of the above standards may be placed within the special water resource protection area, provided that:
- d. A stream corridor protection plan may be developed by a regional stormwater management planning committee as an element of a regional stormwater management plan, or by a municipality through an adopted municipal stormwater management plan. If a stream corridor protection plan for a waterway subject to § 17:12-2.4G8 has been approved by the Department of Environmental Protection, then the provisions of the plan shall be the applicable special water resource protection area requirements for that waterway. A stream corridor protection plan for a waterway subject to § 17:12-2.4G8 shall maintain or

enhance the current functional value and overall condition of the special water resource protection area as defined in § 17:12-2.4G8a(1) above. In no case shall a stream corridor protection plan allow the reduction of the Special Water Resource Protection Area to less than 150 feet as measured perpendicular to the waterway subject to this subsection.

R. Stormwater Runoff Quantity Standards.

1. This subsection contains the minimum design and performance standards to control stormwater runoff quantity impacts of major development.
2. In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at § 17:12-2.5 complete one of the following:
 - a. Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the 2-, 10-, and 100-year storm events do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events;
 - b. Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the 2-, 10- and 100-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area;
 - c. Design stormwater management measures so that the post-construction peak runoff rates for the 2-, 10- and 100-year storm events are 50%, 75% and 80%, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; or
 - d. In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with paragraphs 2a, 2b and 2c above is required unless the design engineer demonstrates through hydrologic and hydraulic analysis that the increased volume, change in timing, or increased rate of the stormwater runoff, or any combination of the three will not result in additional flood damage below the point of discharge of the major development. No analysis is required if the stormwater is discharged directly into any ocean, bay, inlet, or the reach of any watercourse between its confluence with an ocean, bay, or inlet and downstream of the first water control structure.
3. The stormwater runoff quantity standards shall be applied at the site's boundary to each abutting lot, roadway, watercourse, or receiving storm sewer system.

§ 17:12-2.5. Calculation of Stormwater Runoff and Groundwater Recharge. [Added 4-12-2021 by Ord. No. MC 2021-14]

A. Stormwater runoff shall be calculated in accordance with the following:

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1. The design engineer shall calculate runoff using one of the following methods:
 - a. The USDA Natural Resources Conservation Service (NRCS) methodology, including the NRCS Runoff Equation and Dimensionless Unit Hydrograph, as described in Chapters 7, 9, 10, 15 and 16 Part 630, Hydrology National Engineering Handbook, incorporated herein by reference as amended and supplemented. This methodology is additionally described in Technical Release 55 - Urban Hydrology for Small Watersheds (TR-55), dated June 1986, herein by reference as amended and supplemented. Information regarding the methodology is available from the Natural Resources Conservation Service website at: <https://directives.sc.gov/viewerFS.aspx?hid=21422> or at United States Department of Agriculture Natural Resources Conservation Service, 220 Davison Avenue, Somerset, New Jersey 08873; or

- b. The Rational Method for peak flow and the Modified Rational Method for hydrograph computations. The rational and modified rational methods are described in "Appendix A-9 Modified Rational Method" in the Standards for Soil Erosion and Sediment Control in New Jersey, January 2014. This document is

available from the State Soil Conservation Committee or any of the Soil Conservation Districts listed at N.J.A.C. 2:90-1.3(a)3. The location, address, and telephone number for each Soil Conservation District is available from the State Soil Conservation Committee, PO Box 330, Trenton, New Jersey 08625. The document is also available at: <http://www.nj.gov/agriculture/divisions/anr/pdf/2014NJSoilErosionControlStandardsComplete.pdf>.

2. For the purpose of calculating runoff coefficients and groundwater recharge, there is a presumption that the pre-construction condition of a site or portion thereof is a wooded land use with good hydrologic condition. The term "runoff coefficient" applies to both the NRCS methodology above at § 17:12-2.5a1 and the Rational and Modified Rational Methods at § 17:12-2.5a2. A runoff coefficient or a groundwater recharge land cover for an existing condition may be used on all or a portion of the site if the design engineer verifies that the hydrologic condition has existed on the site or portion of the site for at least five years without interruption prior to the time of application. If more than one land cover have existed on the site during the five years immediately prior to the time of application, the land cover with the lowest runoff potential shall be used for the computations. In addition, there is the presumption that the site is in good hydrologic condition (if the land use type is pasture, lawn, or park), with good cover (if the land use type is woods), or with good hydrologic condition and conservation treatment (if the land use type is cultivation).
 3. In computing pre-construction stormwater runoff, the design engineer shall account for all significant land features and structures, such as ponds, wetlands, depressions, hedgerows, or culverts, that may reduce pre-construction stormwater runoff rates and volumes.
 4. In computing stormwater runoff from all design storms, the design engineer shall consider the relative stormwater runoff rates and/or volumes of pervious and impervious surfaces separately to accurately compute the rates and volume of stormwater runoff from the site. To calculate runoff from unconnected impervious cover, urban impervious area modifications as described in the NRCS *Technical Release 55 - Urban Hydrology for Small Watersheds* or other methods may be employed.
 5. If the invert of the outlet structure of a stormwater management measure is below the flood hazard design flood elevation as defined at N.J.A.C. 7:13, the design engineer shall take into account the effects of tailwater in the design of structural stormwater management measures.
- B. Groundwater recharge may be calculated in accordance with the following: The New Jersey Geological Survey Report GSR-32, A Method for Evaluating Groundwater-Recharge Areas in New Jersey, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from the New Jersey State Water Best Management Practices Manual; at the New Jersey Geological Survey website at: <https://www.nj.gov/dep/njgs/pricelst/gsr32.pdf> or at New Jersey Geological and Water Survey, 29 Arctic Parkway, PO Box 420 Mail Code 29-01, Trenton, New Jersey 08625-0420.
- C. The precipitation depths of the current two-, 10-, and 100-year storm events shall be determined by multiplying the values determined in accordance with items § 17:12-2.5C(1) and (2) below:
1. The applicant shall utilize the National Oceanographic and Atmospheric Administration (NOAA), National Weather Service's Atlas 14 Point Precipitation Frequency Estimates: NJ, in accordance with the location(s) of the drainage area(s) of the site. This data is available at: [https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj;);

2. The applicant shall utilize Table 5: Current Precipitation Adjustment Factors below, which sets forth the applicable multiplier for the drainage area(s) of the site, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

Table 5: Current Precipitation Adjustment Factors

County	Current Precipitation Adjustment Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.01	1.02	1.03
Bergen	1.01	1.03	1.06
Burlington	0.99	1.01	1.04
Camden	1.03	1.04	1.05
Cape May	1.03	1.03	1.04
Cumberland	1.03	1.03	1.01
Essex	1.01	1.03	1.06
Gloucester	1.05	1.06	1.06
Hudson	1.03	1.05	1.09
Hunterdon	1.02	1.05	1.13
Mercer	1.01	1.02	1.04
Middlesex	1.00	1.01	1.03
Monmouth	1.00	1.01	1.02
Morris	1.01	1.03	1.06
Ocean	1.00	1.01	1.03
Passaic	1.00	1.02	1.05
Salem	1.02	1.03	1.03
Somerset	1.00	1.03	1.09
Sussex	1.03	1.04	1.07
Union	1.01	1.03	1.06
Warren	1.02	1.07	1.15

D. Table 6: Future Precipitation Change Factors provided below sets forth the change factors to be used in determining the projected two-, 10-, and 100-year storm events for use in this chapter, which are organized alphabetically by county. The precipitation depth of the projected two-, 10-, and 100-year storm events of a site shall be determined by multiplying the precipitation depth of the two-, 10-, and 100-year storm events determined from the National Weather Service’s Atlas 14 Point Precipitation Frequency Estimates pursuant to § 17:12-2.5C(1) above, by the change factor in the table below, in accordance with the county or counties where the drainage area(s) of the site is located. Where the major development and/or its drainage area lies in more than one county, the precipitation values shall be adjusted according to the percentage of the drainage area in each county. Alternately, separate rainfall totals can be developed for each county using the values in the table below.

Table 6: Future Precipitation Change Factors

County	Future Precipitation Change Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.22	1.24	1.39
Bergen	1.20	1.23	1.37
Burlington	1.17	1.18	1.32
Camden	1.18	1.22	1.39
Cape May	1.21	1.24	1.32
Cumberland	1.20	1.21	1.39

Essex	1.19	1.22	1.33
Gloucester	1.19	1.23	1.41
Hudson	1.19	1.19	1.23
Hunterdon	1.19	1.23	1.42
Mercer	1.16	1.17	1.36
Middlesex	1.19	1.21	1.33
Monmouth	1.19	1.19	1.26
Morris	1.23	1.28	1.46
Ocean	1.18	1.19	1.24
Passaic	1.21	1.27	1.50
Salem	1.20	1.23	1.32
Somerset	1.19	1.24	1.48
Sussex	1.24	1.29	1.50
Union	1.20	1.23	1.35
Warren	1.20	1.25	1.37

§ 17:12-2.6. Sources for Technical Guidance. [Added 4-12-2021 by Ord. No. MC 2021-14]

A. Technical guidance for stormwater management measures can be found in the documents listed below, which are available to download from the Department's website at: <https://dep.nj.gov/stormwater/bmp-manual/>.

1. Guidelines for stormwater management measures are contained in the New Jersey Stormwater Best Management Practices Manual, as amended and supplemented. Information is provided on stormwater management measures such as, but not limited to, those listed in Tables 1, 2, and 3.
2. Additional maintenance guidance is available on the Department's website at: <https://dep.nj.gov/stormwater/maintenance-guidance/>.

B. Submissions required for review by the Department should be mailed to:

The Division of Watershed Protection and Restoration, New Jersey Department of Environmental Protection, Mail Code 501-02A, PO Box 420, Trenton, New Jersey 08625-0420.

C. Additional technical guidance for stormwater management measures can be obtained from the following:

1. The "Standards for Soil Erosion and Sediment Control in New Jersey" promulgated by the State Soil Conservation Committee and incorporated into N.J.A.C. 2:90. Copies of these standards may be obtained by contacting the State Soil Conservation Committee or any of the Soil Conservation Districts listed in N.J.A.C. 2:90-1.3(a)4. The location, address, and telephone number of each Soil Conservation District may be obtained from the State Soil Conservation Committee, P.O. Box 330, Trenton, New Jersey, 08625; (609) 292-5540;

Downloaded from <https://www.nj.gov/dep/watershed/extension-service/> on 11/14/2023 by The Rutgers Cooperative Extension Service, 732-932-9306; and

3. The Soil Conservation Districts listed in N.J.A.C. 2:90-1.3(a)4. The location, address, and telephone number of each Soil Conservation District may be obtained from the State Soil Conservation Committee, P.O. Box 330, Trenton, New Jersey, 08625, (609) 292-5540.

§ 17:12-2.7. Solids and Floatable Materials Control Standards. [Added 4-12-2021 by Ord. No. MC 2021-14]

A. Site design features identified under § 17:12-2.4F above, or alternative designs in accordance with § 17:12-2.4G above, to prevent discharge of trash and debris from drainage systems shall comply with the following standard to control passage of solid and floatable materials through storm drain inlets. For purposes of this paragraph, "solid and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids. For exemptions to this standard see § 17:12-2.7a2 below.

1. Design engineers shall use one of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:
 - a. The New Jersey Department of Transportation (NJDOT) bicycle safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines; or
 - b. A different grate, if each individual clear space in that grate has an area of no more than seven square inches, or is no greater than 0.5 inch across the smallest dimension.

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 system floors used to collect stormwater from the surface into a storm drain or surface water body.

 - c. For curb-opening inlets, including curb-opening inlets in combination inlets, the clear space in that 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 square inches, or be no greater than two inches across the smallest dimension.
2. The standard in paragraph A1 above does not apply:
 - a. Where each individual clear space in the curb opening in existing curb-opening inlet does not have an area of more than nine (9.0) square inches;
 - b. Where the municipality agrees that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;
 - c. 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:
 - (1) A rectangular space four and five-eighths (4.625) inches long and one and one-half (1.5) inches wide (this option does not apply for outfall netting facilities); or
 - (2) A bar screen having a bar spacing of 0.5 inch.

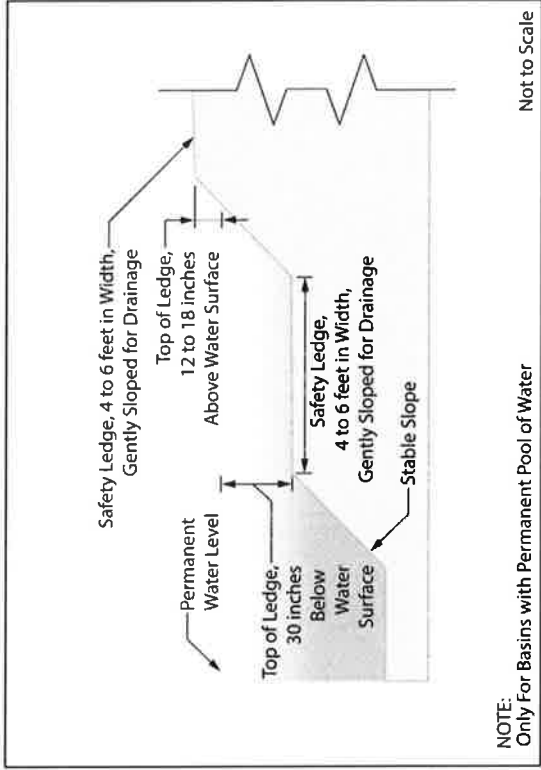
Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).
 - d. Where flows are conveyed through a trash rack that has parallel bars with one-inch (1 inch) spacing between the bars, to the elevation of the Water Quality Design Storm as specified in N.J.A.C. 7:8; or
 - e. Where the New Jersey Department of Environmental Protection 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 this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.
- § 17:12-2.8. Safety Standards for Stormwater Management Basins. [Added 4-12-2021 by Ord. No. MC 2021-14]
- A This section sets forth requirements to protect public safety through the proper design and operation of stormwater management BMPs. This section applies to any new stormwater management BMP.

B. The provisions of this section are not intended to preempt more stringent municipal or county safety requirements for new or existing stormwater management BMPs. Municipal and county stormwater management plans and ordinances may, pursuant to their authority, require existing stormwater management BMPs to be retrofitted to meet one or more of the safety standards in § 17:12-2.8C1, C2 and C3, for trash racks, overflow grates, and escape provisions at outlet structures.

C. Requirements for Trash Racks, Overflow Grates and Escape Provisions.

1. A trash rack is a device designed to catch trash and debris and prevent the clogging of outlet structures. Trash racks shall be installed at the intake to the outlet from the Stormwater management BMP to ensure proper functioning of the BMP outlets in accordance with the following:
 - a. The trash rack shall have parallel bars, with no greater than six-inch spacing between the bars;
 - b. The trash rack shall be designed so as not to adversely affect the hydraulic performance of the outlet pipe or structure;
 - c. The average velocity of flow through a clean trash rack is not to exceed 2.5 feet per second under the full range of stage and discharge. Velocity is to be computed on the basis of the net area of opening through the rack; and
 - d. The trash rack shall be constructed of rigid, durable, and corrosion resistant material and designed to withstand a perpendicular live loading of 300 pounds per square foot.
2. An overflow grate is designed to prevent obstruction of the overflow structure. If an outlet structure has an overflow grate, such grate shall meet the following requirements:
 - a. The overflow grate shall be secured to the outlet structure but removable for emergencies and maintenance.
 - b. The overflow grate spacing shall be no less than two inches across the smallest dimension.
 - c. The overflow grate shall be constructed and installed to be rigid, durable, and corrosion resistant, and shall be designed to withstand a perpendicular live loading of 300 pounds per square foot.
3. Stormwater management BMPs shall include escape provisions as follows:
 - a. If a stormwater management BMP has an outlet structure, escape provisions shall be incorporated in or on the structure. Escape provisions include the installation of permanent ladders, steps, rungs, or other features that provide easily accessible means of egress from stormwater management BMPs. With the prior approval of the municipality pursuant to § 17:12-2.8C, a free-standing outlet structure may be exempted from this requirement;
 - b. Safety ledges shall be constructed on the slopes of all new stormwater management BMPs having a permanent pool of water deeper than two and one-half feet. Safety ledges shall be comprised of two steps. Each step shall be four to six feet in width. One step shall be located approximately two and one-half feet below the permanent water surface, and the second step shall be located one to one and one-half feet above the permanent water surface. See § 17:12-2.8E for an illustration of safety ledges in a stormwater management BMP; and
 - c. In new stormwater management BMPs, the maximum interior slope for an earthen dam, embankment, or berm shall not be steeper than three horizontal to one vertical.
 - d. Variance or Exemption from Safety Standard. A variance or exemption from the safety standards for stormwater management BMPs may be granted only upon a written finding by the municipality that the variance or exemption will not constitute a threat to public safety.
 - e. Safety Ledge Illustration. Elevation View -Basin Safety Ledge Configuration.

Elevation View - Basin Safety Ledge Configuration



§ 17:12-2.9. Requirements for a Site Development Stormwater Plan. [Added 4-12-2021 by Ord. No. MC 2021-14]

A. Submission of Site Development Stormwater Plan.

1. Whenever an applicant seeks municipal approval of a development subject to this section, the applicant shall submit all of the required components of the Checklist for the Site Development Stormwater Plan at § 17:12-2.9C below as part of the submission of the application for approval.
2. The applicant shall demonstrate that the project meets the standards set forth in this section.
3. The applicant shall submit three copies of the materials listed in the checklist for site development stormwater plans in accordance with § 17:12-2.9C.

B. Site Development Stormwater Plan Approval. The applicant's Site Development project shall be reviewed as a part of the review process by the municipal board or official from which municipal approval is sought. That municipal board or official shall consult the municipality's review engineer to determine if all of the checklist requirements have been satisfied and to determine if the project meets the standards set forth in this section.

C. Submission of Site Development Stormwater Plan. The following information shall be required:

1. Topographic Base Map. The reviewing engineer may require upstream tributary drainage system information as necessary. It is recommended that the topographic base map of the site be submitted which extends a minimum of 200 feet beyond the limits of the proposed development, at a scale of 1"=200' or greater, showing 2-foot contour intervals. The map as appropriate may indicate the following: existing surface water drainage, shorelines, steep slopes, soils, erodible soils, perennial or intermittent streams that drain into or upstream of the Category One waters, wetlands and flood plains along with their appropriate buffer strips, marshlands and other wetlands, pervious or vegetative surfaces, existing man-made structures, roads, bearing and distances of property lines, and significant natural and manmade features not otherwise shown.
2. Environmental Site Analysis. A written and graphic description of the natural and man- made features of the site and its surroundings should be submitted. This description should include a discussion of soil conditions, slopes, wetlands, waterways and vegetation on the site. Particular attention should be given to unique, unusual, or environmentally sensitive features and to those that provide

removal; and the name, address, and telephone number of the person or persons responsible for preventative and corrective maintenance (including replacement). The plan shall contain information on BMP location, design, ownership, maintenance tasks and frequencies, and other details as specified in Chapter 8 of the NJ BMP Manual, as well as the tasks specific to the type of BMP, as described in the applicable chapter containing design specifics.

3. If the maintenance plan identifies a person other than the property owner (for example, a developer, a public agency or homeowners' association) as having the responsibility for maintenance, the plan shall include documentation of such person's or entity's agreement to assume this responsibility, or of the owner's obligation to dedicate a stormwater management facility to such person under an applicable ordinance or regulation.
 4. Responsibility for maintenance shall not be assigned or transferred to the owner or tenant of an individual property in a residential development or project, unless such owner or tenant owns or leases the entire residential development or project. The individual property owner may be assigned incidental tasks, such as weeding of a green infrastructure BMP, provided the individual agrees to assume these tasks; however, the individual cannot be legally responsible for all of the maintenance required.
 5. If the party responsible for maintenance identified under § 17:12-2.10B3 above is not a public agency, the maintenance plan and any future revisions based on § 17:12-2.10B7 below shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken.
 6. Preventative and corrective maintenance shall be performed to maintain the functional parameters (storage volume, infiltration rates, inflow/outflow capacity, etc.) of the stormwater management measure, including, but not limited to, repairs or replacement to the structure; removal of sediment, debris, or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of non-vegetated linings.
 7. The party responsible for maintenance identified under § 17:12-2.10B3 above shall perform all of the following requirements:
 - a. Maintain a detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspections and copies of all maintenance- related work orders;
 - b. Evaluate the effectiveness of the maintenance plan at least once per year and adjust the plan and the deed as needed; and
 - c. Retain and make available, upon request by any public entity with administrative, health, environmental, or safety authority over the site, the maintenance plan and the documentation required by § 17:12-2.10B6 and B7 above.
 8. The requirements of § 17:12-2.10B3 and B4 do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another governmental agency, subject to all applicable municipal stormwater general permit conditions, as issued by the Department.
 9. In the event that the stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have fourteen (14) days to effect maintenance and repair of the facility in a manner that is approved by the municipal engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality or County may immediately proceed to do so and shall bill the cost thereof to the responsible person. Nonpayment of such bill may result in a lien on the property.
- C. Nothing in this subsection shall preclude the municipality in which the major development is located from requiring the posting of a performance or maintenance

§ 17:12-2.11. Penalties. [Added 4-12-2021 by Ord. No. MC 2021-14]

Any person(s) who erects, constructs, alters, repairs, converts, maintains, or uses any building, structure or land in violation of this section shall be subject to the following penalties: minimum penalty of \$1,000 and maximum penalty of \$5,000.

§ 17:12-2.12. Severability. [Added 4-12-2021 by Ord. No. MC 2021-14]

If the provisions of any section, subsection, paragraph, subdivision, or clause of this section shall be judged invalid by a court of competent jurisdiction, such order of judgment shall not affect or invalidate the remainder of any section, subsection, paragraph, subdivision, or clause of this section.

§ 17:12-2.13. Effective Date:

This Ordinance shall be in full force and effect from and after its adoption and any publication as required by law.

ALL OF WHICH IS ADOPTED THIS _____ day of _____, 20____, by the City of Plainfield.

Felicia McNeil

From: Heydel, Kevin [DCA] <Kevin.Heydel@dca.nj.gov>
Sent: Friday, March 7, 2025 10:34 AM
To: Felicia McNeil
Subject: RE: Recreational Improvements 2025 Grant Number: 2025-09131-0245-00 \$250,000.00

Its done, thank you.....

Kevin W. Heydel, Grant Administrator
101 South Broad Street
Trenton, NJ 08625
Phone: (856) 466-5882
kevin.heydel@dca.nj.gov

From: Felicia McNeil <felicia.mcneil@plainfieldnj.gov>
Sent: Friday, March 7, 2025 10:23 AM
To: Heydel, Kevin [DCA] <Kevin.Heydel@dca.nj.gov>
Subject: [EXTERNAL] RE: Recreational Improvements 2025 Grant Number: 2025-09131-0245-00 \$250,000.00

Good morning Kevin

Yes will do so now!

Thank you!

Felicia McNeil
Assistant to the Dept. of Public Works Director
City of Plainfield
Office of the Public Works Department
515 Watchung Avenue
Plainfield, NJ 07060
(908) 753-3375; Ext. 2170
Email: felicia.mcneil@plainfieldnj.gov
Website: www.plainfieldnj.gov [plainfieldnj.gov]

From: Heydel, Kevin [DCA] <Kevin.Heydel@dca.nj.gov>
Sent: Friday, March 7, 2025 10:16 AM
To: Felicia McNeil <felicia.mcneil@plainfieldnj.gov>
Subject: Recreational Improvements 2025 Grant Number: 2025-09131-0245-00 \$250,000.00

Good morning, Felicia,

Range of Accounts: C-04-55-844-001-900 to C-04-55-859-001-931 Budget Year: 2016 As Of: 08/13/25
Current Period: 01/01/16 to 08/13/25 Skip Zero Activity: Yes
Note: The 'Orig Auth' for skipped accounts is included in the subtotals and final totals.

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended
C-04-55-844-001-900	BOND ORDINANCE #1260					
C-04-55-844-001-901	Chapter 20 Costs					
	225,000.00	225,000.00	0.00	7,000.00-	218,000.00	0.00 100
		211,165.00	6,835.00	0.00	0.00	6,835.00
		211,165.00		0.00	218,000.00	
C-04-55-844-001-902	Seidler Field					
	609,000.00	609,000.00	0.00	27,644.36-	581,355.64	20.00 100
		581,335.64	0.00	0.00	0.00	20.00
		581,335.64		0.00	581,335.64	
C-04-55-844-001-903	Parking Lots 6 & 8					
	78,300.00	78,300.00	0.00	1,844.92-	76,455.08	566.23 99
		75,888.85	0.00	0.00	0.00	566.23
		75,888.85		0.00	75,888.85	
C-04-55-844-001-904	Salt & Sand Storage					
	68,900.00	68,900.00	0.00	68,900.00-	0.00	0.00 0
		0.00	0.00	0.00	0.00	0.00
		0.00		0.00	0.00	
C-04-55-844-001-905	Automatic Overhead Door					
	35,000.00	35,000.00	0.00	0.00	35,000.00	11,327.50 68
		23,672.50	0.00	0.00	0.00	11,327.50
		23,672.50		0.00	23,672.50	
C-04-55-844-001-906	Public Works Vehicles					
	415,800.00	415,800.00	0.00	3,780.01-	412,019.99	0.00 100
		412,019.99	0.00	0.00	0.00	0.00
		412,019.99		0.00	412,019.99	
C-04-55-844-001-907	Police Vehicles					
	322,200.00	322,200.00	0.00	0.00	322,200.00	228.33 100
		321,971.67	0.00	0.00	0.00	228.33
		321,971.67		0.00	321,971.67	
C-04-55-844-001-908	PH-Replacement of Sanitary Sewer System					
	52,000.00	52,000.00	0.00	0.00	52,000.00	0.00 100
		38,464.50	0.00	0.00	13,535.50	0.00
		38,464.50		0.00	38,464.50	
C-04-55-844-001-909	Fire Pumper					
	447,300.00	447,300.00	0.00	1,300.00-	446,000.00	0.00 100
		446,000.00	0.00	0.00	0.00	0.00
		446,000.00		0.00	446,000.00	
C-04-55-844-001-910	Purchase of Property					
	80,000.00	80,000.00	0.00	80,000.00-	0.00	0.00 0
		0.00	0.00	0.00	0.00	0.00
		0.00		0.00	0.00	
C-04-55-844-001-911	Sanitary Sewer Extension - Oakwood Place					
	0.00	0.00	0.00	60,000.00	60,000.00	0.00 100
		60,000.00	0.00	0.00	0.00	0.00
		60,000.00		0.00	60,000.00	

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD Unexpended	%Used
C-04-55-844-001-912	MAPLE CREST BASKETBALL COURTS IMPROVMTS.						
	0.00	0.00	0.00	64,969.29	64,969.29	0.00	100
		64,969.29	0.00	0.00	0.00	0.00	
		64,969.29		0.00	64,969.29		
C-04-55-844-001-913	PD UNDERGROUND TANK IMPROVEMENTS						
	0.00	0.00	0.00	65,500.00	65,500.00	411.00	99
		65,089.00	0.00	0.00	0.00	411.00	
		65,089.00		0.00	65,089.00		
Control: 900	Total	2,333,500.00	2,333,500.00	0.00	0.00	2,333,500.00	12,553.06 99
			2,300,576.44	6,835.00	0.00	13,535.50	19,388.06
			2,300,576.44		0.00	2,307,411.44	
Extd: 001	Total						
	2,333,500.00	2,333,500.00	0.00	0.00	2,333,500.00	12,553.06	99
		2,300,576.44	6,835.00	0.00	13,535.50	19,388.06	
		2,300,576.44		0.00	2,307,411.44		
Department: 844	Total						
	2,333,500.00	2,333,500.00	0.00	0.00	2,333,500.00	12,553.06	99
		2,300,576.44	6,835.00	0.00	13,535.50	19,388.06	
		2,300,576.44		0.00	2,307,411.44		
C-04-55-845-001-900	BOND ORDINANCE #1261 - 2017 ROAD PROJECT						
C-04-55-845-001-901	ORD. #1261 - 2017 ROAD PROJECTS 40A COST						
	600,000.00	600,000.00	0.00	0.00	600,000.00	34.85	100
		540,680.98	59,284.17	0.00	0.00	59,319.02	
		540,680.98		0.00	599,965.15		
C-04-55-845-001-902	ORD. #1261 - 2017 ROAD IMPROVEMENTS						
	5,000,000.00	5,000,000.00	0.00	0.00	5,000,000.00	7,448.35	100
		4,959,099.20	33,452.45	0.00	0.00	40,900.80	
		4,959,099.20		0.00	4,992,551.65		
Control: 900	Total	5,600,000.00	5,600,000.00	0.00	0.00	5,600,000.00	7,483.20 100
			5,499,780.18	92,736.62	0.00	100,219.82	
			5,499,780.18		0.00	5,592,516.80	
Extd: 001	Total						
	5,600,000.00	5,600,000.00	0.00	0.00	5,600,000.00	7,483.20	100
		5,499,780.18	92,736.62	0.00	0.00	100,219.82	
		5,499,780.18		0.00	5,592,516.80		
Department: 845	Total						
	5,600,000.00	5,600,000.00	0.00	0.00	5,600,000.00	7,483.20	100
		5,499,780.18	92,736.62	0.00	0.00	100,219.82	
		5,499,780.18		0.00	5,592,516.80		
C-04-55-846-001-900	BOND ORDINANCE #1263 - POLICE DEPARTMENT						
C-04-55-846-001-901	#1263 - PD VEHICLES & ACCESSORIES						
	150,000.00	150,000.00	0.00	0.00	150,000.00	0.00	100
		150,000.00	0.00	0.00	0.00	0.00	
		150,000.00		0.00	150,000.00		
C-04-55-846-001-902	#1263 - POLICE DEPT. HVAC & CONTROLS						
	150,000.00	150,000.00	0.00	45,546.33-	104,453.67	0.00	100
		104,044.75	408.92	0.00	0.00	408.92	
		104,044.75		0.00	104,453.67		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD Unexpended	%Used
C-04-55-846-001-903	#1263 - POLICE DEPT. BATHROOMS						
	65,000.00	65,000.00	0.00	0.00	65,000.00	26,351.70	59
		36,174.02	2,474.28	0.00	0.00	28,825.98	
		36,174.02		0.00	38,648.30		
Control: 900	Total	365,000.00	0.00	45,546.33-	319,453.67	26,351.70	92
		290,218.77	2,883.20	0.00	0.00	29,234.90	
		290,218.77		0.00	293,101.97		
Extd: 001	Total						
	365,000.00	365,000.00	0.00	45,546.33-	319,453.67	26,351.70	92
		290,218.77	2,883.20	0.00	0.00	29,234.90	
		290,218.77		0.00	293,101.97		
Department: 846	Total						
	365,000.00	365,000.00	0.00	45,546.33-	319,453.67	26,351.70	92
		290,218.77	2,883.20	0.00	0.00	29,234.90	
		290,218.77		0.00	293,101.97		
C-04-55-847-001-900	BOND ORDINANCE #1264 - 2018 ROADS/EQUIP						
C-04-55-847-001-901	#1264 - 40A:2-20 COSTS						
	101,900.00	101,900.00	0.00	0.00	101,900.00	1,644.02	98
		74,742.72	25,513.26	0.00	0.00	27,157.28	
		74,742.72		0.00	100,255.98		
C-04-55-847-001-902	#1264 - ROAD IMPROVEMENTS (CITY SHARE)						
	1,400,000.00	1,400,000.00	0.00	0.00	1,400,000.00	0.00	100
		1,400,000.00	0.00	0.00	0.00	0.00	
		1,400,000.00		0.00	1,400,000.00		
C-04-55-847-001-903	#1264 - NJDOT 2018 (MALTBY AVENUE)						
	360,000.00	360,000.00	0.00	0.00	360,000.00	126,292.67	65
		233,707.33	0.00	0.00	0.00	126,292.67	
		233,707.33		0.00	233,707.33		
C-04-55-847-001-904	#1264- NJDOT 2018 (LAKE & SPRING STREET)						
	198,000.00	198,000.00	0.00	0.00	198,000.00	0.00	100
		198,000.00	0.00	0.00	0.00	0.00	
		198,000.00		0.00	198,000.00		
C-04-55-847-001-905	#1264- UNION COUNTY INFRASTRUCTURE GRANT						
	100,000.00	100,000.00	0.00	0.00	100,000.00	1,984.74	98
		98,015.26	0.00	0.00	0.00	1,984.74	
		98,015.26		0.00	98,015.26		
C-04-55-847-001-906	#1264 - FIRE DEPT VEHICLES/EQUIPMENT						
	620,350.00	620,350.00	0.00	0.00	620,350.00	330.99	100
		620,019.01	0.00	0.00	0.00	330.99	
		620,019.01		0.00	620,019.01		
C-04-55-847-001-907	#1264 - INFORMATION TECHNOLOGY EQUIPMENT						
	65,000.00	65,000.00	0.00	0.00	65,000.00	0.00	100
		65,000.00	0.00	0.00	0.00	0.00	
		65,000.00		0.00	65,000.00		
C-04-55-847-001-908	#1264 - MUNICIPAL COURT FURNITURE						
	32,500.00	32,500.00	0.00	0.00	32,500.00	0.00	100
		32,500.00	0.00	0.00	0.00	0.00	
		32,500.00		0.00	32,500.00		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-847-001-909	#1264 - DIGITIZE CITY MAPS						
	70,000.00	70,000.00	0.00	0.00	70,000.00	70,000.00	0
		0.00	0.00	0.00	0.00	70,000.00	
		0.00		0.00	0.00		
C-04-55-847-001-910	#1264 - DPW VEHICLES/EQUIPMENT						
	886,250.00	886,250.00	0.00	0.00	886,250.00	0.39	100
		882,906.61	3,343.00	0.00	0.00	3,343.39	
		882,906.61		0.00	886,249.61		
C-04-55-847-001-911	#1264 - SENIOR CENTER IMPROVEMENTS						
	104,000.00	104,000.00	0.00	0.00	104,000.00	79,558.71	24
		29,423.30	17.99	5,000.00	0.00	79,576.70	
		29,423.30		5,000.00	24,441.29		
C-04-55-847-001-912	#1264 - DRAKE HOUSE REHABILITATION						
	20,000.00	20,000.00	0.00	0.00	20,000.00	0.00	100
		20,000.00	0.00	0.00	0.00	0.00	
		20,000.00		0.00	20,000.00		
C-04-55-847-001-913	#1264 - LIBRARY EXTERIOR IMPROVEMENTS						
	200,000.00	200,000.00	0.00	0.00	200,000.00	0.00	100
		200,000.00	0.00	0.00	0.00	0.00	
		200,000.00		0.00	200,000.00		
Control: 900	Total	4,158,000.00	4,158,000.00	0.00	0.00	4,158,000.00	279,811.52 93
			3,854,314.23	28,874.25	5,000.00	0.00	308,685.77
			3,854,314.23		5,000.00	3,878,188.48	
Extd: 001	Total						
	4,158,000.00	4,158,000.00	0.00	0.00	4,158,000.00	279,811.52	93
		3,854,314.23	28,874.25	5,000.00	0.00	308,685.77	
		3,854,314.23		5,000.00	3,878,188.48		
Department: 847	Total						
	4,158,000.00	4,158,000.00	0.00	0.00	4,158,000.00	279,811.52	93
		3,854,314.23	28,874.25	5,000.00	0.00	308,685.77	
		3,854,314.23		5,000.00	3,878,188.48		
C-04-55-848-001-900	BOND ORDINANCE #1267-ROADS/EQUIP/IMPROV						
C-04-55-848-001-901	#1267 - 40A:2-20 COSTS						
	47,925.00	47,925.00	0.00	0.00	47,925.00	680.69	99
		47,244.31	0.00	0.00	0.00	680.69	
		47,244.31		0.00	47,244.31		
C-04-55-848-001-902	#1267 - CULTURAL ARTS & ED. CENTER IMP.						
	400,000.00	400,000.00	0.00	0.00	400,000.00	8,896.00	98
		386,596.60	4,887.40	380.00	0.00	13,783.40	
		386,596.60		380.00	391,104.00		
C-04-55-848-001-903	#1267 - MULTI MEDIA STUDIO AT PCAEC						
	70,000.00	70,000.00	0.00	0.00	70,000.00	55,071.50	21
		14,928.50	0.00	0.00	0.00	55,071.50	
		14,928.50		0.00	14,928.50		
C-04-55-848-001-904	#1267 - VARIOUS ROADWAY IMPROVEMENTS						
	1,200,000.00	1,200,000.00	0.00	0.00	1,200,000.00	26,119.34	98
		1,045,920.55	127,960.11	0.00	0.00	154,079.45	
		1,045,920.55		0.00	1,173,880.66		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-848-001-905	#1267 - DPW EQUIPMENT & VEHICLES						
	790,000.00	790,000.00	0.00	0.00	790,000.00	51.34 100	
		628,508.66	161,440.00	0.00	0.00	161,491.34	
		628,508.66		0.00	789,948.66		
C-04-55-848-001-906	#1267 - CITY HALL REPAIRS						
	45,000.00	45,000.00	0.00	0.00	45,000.00	0.00 100	
		44,919.68	80.32	0.00	0.00	80.32	
		44,919.68		0.00	45,000.00		
C-04-55-848-001-907	#1267 - REPAIRS TO CITY HALL ANNEX						
	15,000.00	15,000.00	0.00	0.00	15,000.00	0.00 100	
		14,837.64	162.36	0.00	0.00	162.36	
		14,837.64		0.00	15,000.00		
C-04-55-848-001-908	#1267 - REPAIRS TO CITY HALL CUPOLA						
	24,635.00	24,635.00	0.00	0.00	24,635.00	7,635.00 69	
		5,577.53	11,422.47	0.00	0.00	19,057.47	
		5,577.53		0.00	17,000.00		
C-04-55-848-001-909	#1267 - DOCUMENT CONTENT MANAGEMENT SYS.						
	270,000.00	270,000.00	0.00	0.00	270,000.00	13.62 100	
		269,986.38	0.00	0.00	0.00	13.62	
		269,986.38		0.00	269,986.38		
C-04-55-848-001-910	#1267 - FAST TRACK MODULE - HEALTH DEPT.						
	79,000.00	79,000.00	0.00	1,250.00-	77,750.00	66,500.00 14	
		11,250.00	0.00	0.00	0.00	66,500.00	
		11,250.00		0.00	11,250.00		
C-04-55-848-001-911	#1267 - COMPUTERS & SOFTWARE UPGRADES						
	120,440.00	120,440.00	0.00	0.00	120,440.00	0.00 100	
		120,440.00	0.00	0.00	0.00	0.00	
		120,440.00		0.00	120,440.00		
C-04-55-848-001-912	#1267 - FIRE HEADQUARTERS RESTROOM						
	60,000.00	60,000.00	0.00	0.00	60,000.00	5.00 100	
		59,995.00	0.00	0.00	0.00	5.00	
		59,995.00		0.00	59,995.00		
C-04-55-848-001-913	#1267 - FIRE HEADQUARTERS ROOF						
	178,000.00	178,000.00	0.00	1,250.00	179,250.00	1,514.90 99	
		177,735.10	0.00	0.00	0.00	1,514.90	
		177,735.10		0.00	177,735.10		
C-04-55-848-001-914	#1267 - VARIOUS IMPROVEMENTS TO LIBRARY						
	200,000.00	200,000.00	0.00	0.00	200,000.00	0.00 100	
		200,000.00	0.00	0.00	0.00	0.00	
		200,000.00		0.00	200,000.00		
Control: 900	Total	3,500,000.00	3,500,000.00	0.00	0.00	3,500,000.00	166,487.39 95
			3,027,939.95	380.00	0.00	472,440.05	
			3,027,939.95	380.00	3,333,512.61		
Extd: 001	Total						
		3,500,000.00	3,500,000.00	0.00	0.00	3,500,000.00	166,487.39 95
			3,027,939.95	380.00	0.00	472,440.05	
			3,027,939.95	380.00	3,333,512.61		
Department: 848	Total						
		3,500,000.00	3,500,000.00	0.00	0.00	3,500,000.00	166,487.39 95
			3,027,939.95	380.00	0.00	472,440.05	
			3,027,939.95	380.00	3,333,512.61		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD Unexpended	%Used
C-04-55-849-001-900	BOND ORD #1270-N. AVE PEDESTRIAN MALL						
C-04-55-849-001-901	#1270 - 40A:2-20 COSTS						
	600,000.00	600,000.00	0.00	0.00	600,000.00	6,863.61	99
		455,904.46	137,231.93	0.00	0.00	144,095.54	
		455,904.46		0.00	593,136.39		
C-04-55-849-001-902	#1270- N AVE PEDESTRIAN MALL/STREETSCAPE						
	1,600,000.00	1,600,000.00	0.00	0.00	1,600,000.00	1,600,000.00	0
		0.00	0.00	0.00	0.00	1,600,000.00	
		0.00		0.00	0.00		
Control: 900	Total	2,200,000.00	2,200,000.00	0.00	2,200,000.00	1,606,863.61	27
		455,904.46	137,231.93	0.00	0.00	1,744,095.54	
		455,904.46		0.00	593,136.39		
Extd: 001	Total						
	2,200,000.00	2,200,000.00	0.00	0.00	2,200,000.00	1,606,863.61	27
		455,904.46	137,231.93	0.00	0.00	1,744,095.54	
		455,904.46		0.00	593,136.39		
Department: 849	Total						
	2,200,000.00	2,200,000.00	0.00	0.00	2,200,000.00	1,606,863.61	27
		455,904.46	137,231.93	0.00	0.00	1,744,095.54	
		455,904.46		0.00	593,136.39		
C-04-55-850-001-900	#1271 - PURCHASE OF FIRE DEPT RADIO'S						
C-04-55-850-001-901	#1271 - FD RADIO'S 40A:2-20 COSTS						
	3,940.00	3,940.00	0.00	0.00	3,940.00	3,440.00	13
		500.00	0.00	0.00	0.00	3,440.00	
		500.00		0.00	500.00		
C-04-55-850-001-902	#1271 - PURCHASE OF FIRE DEPT RADIO'S						
	426,060.00	426,060.00	0.00	0.00	426,060.00	0.46	100
		426,059.54	0.00	0.00	0.00	0.46	
		426,059.54		0.00	426,059.54		
Control: 900	Total	430,000.00	430,000.00	0.00	430,000.00	3,440.46	99
		426,559.54	0.00	0.00	0.00	3,440.46	
		426,559.54		0.00	426,559.54		
Extd: 001	Total						
	430,000.00	430,000.00	0.00	0.00	430,000.00	3,440.46	99
		426,559.54	0.00	0.00	0.00	3,440.46	
		426,559.54		0.00	426,559.54		
Department: 850	Total						
	430,000.00	430,000.00	0.00	0.00	430,000.00	3,440.46	99
		426,559.54	0.00	0.00	0.00	3,440.46	
		426,559.54		0.00	426,559.54		
C-04-55-851-001-900	#1272 - 2020 ACQUISITIONS & IMPROVEMENTS						
C-04-55-851-001-901	#1272 - 40A COSTS/2020 ACQ & IMPROVMTS						
	265,410.00	265,410.00	0.00	0.00	265,410.00	44,829.46	83
		114,522.04	106,058.50	0.00	0.00	150,887.96	
		114,522.04		0.00	220,580.54		
C-04-55-851-001-902	#1272-RUSHMORE TURF FIELD CONSTRUCTION						
	2,700,000.00	2,700,000.00	0.00	179,347.69-	2,520,652.31	2,097.08	100
		2,457,925.23	60,630.00	0.00	0.00	62,727.08	
		2,457,925.23		0.00	2,518,555.23		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-851-001-903	#1272-HEALTH DIVISION NON-PASSENGER SUV	20,000.00	20,000.00	0.00	0.00	20,000.00	20,000.00 0
		0.00	0.00	0.00	0.00	20,000.00	
		0.00		0.00	0.00		
C-04-55-851-001-904	#1272 - CITY ANNEX BATHROOM REPAIRS	35,000.00	35,000.00	0.00	0.00	35,000.00	27,500.00 21
		3,043.68	4,456.32	0.00	0.00	31,956.32	
		3,043.68		0.00	7,500.00		
C-04-55-851-001-905	#1272 - ENGINE 3 FIRE ST. PAVING & APRON	78,000.00	78,000.00	0.00	0.00	78,000.00	0.00 100
		78,000.00	0.00	0.00	0.00	0.00	
		78,000.00		0.00	78,000.00		
C-04-55-851-001-906	#1272-CAMERA'S/RECORDING DEVICES (FIRE)	35,000.00	35,000.00	0.00	0.00	35,000.00	1,473.44 96
		33,526.56	0.00	0.00	0.00	1,473.44	
		33,526.56		0.00	33,526.56		
C-04-55-851-001-907	#1272 - VIDEO SURVEILLANCE CAMERA'S (PD)	115,000.00	115,000.00	0.00	0.00	115,000.00	0.00 100
		115,000.00	0.00	0.00	0.00	0.00	
		115,000.00		0.00	115,000.00		
C-04-55-851-001-908	#1272 - NON PASSENGER TRUCK (PARKING)	36,500.00	36,500.00	0.00	0.00	36,500.00	36,500.00 0
		0.00	0.00	0.00	0.00	36,500.00	
		0.00		0.00	0.00		
C-04-55-851-001-909	#1272 - DESKTOP COMPUTERS CITYWIDE	34,740.00	34,740.00	0.00	0.00	34,740.00	0.00 100
		34,740.00	0.00	0.00	0.00	0.00	
		34,740.00		0.00	34,740.00		
C-04-55-851-001-910	#1272-HVAC/REPAIR ROOF (401 CENTRAL AVE)	24,000.00	24,000.00	0.00	0.00	24,000.00	18,650.00 22
		5,350.00	0.00	0.00	0.00	18,650.00	
		5,350.00		0.00	5,350.00		
C-04-55-851-001-911	#1272-PURCHASE OF BUCKET TRUCK (SIGNAL)	255,000.00	255,000.00	0.00	0.00	255,000.00	0.00 100
		255,000.00	0.00	0.00	0.00	0.00	
		255,000.00		0.00	255,000.00		
C-04-55-851-001-912	#1272 - UTILITY POLES (PARK/SOUTH AVE'S)	130,000.00	130,000.00	0.00	0.00	130,000.00	780.87 99
		129,219.13	0.00	0.00	0.00	780.87	
		129,219.13		0.00	129,219.13		
C-04-55-851-001-913	#1272-NON PASSENGER SUV'S (INSPECTIONS)	70,000.00	70,000.00	0.00	0.00	70,000.00	70,000.00 0
		0.00	0.00	0.00	0.00	70,000.00	
		0.00		0.00	0.00		
C-04-55-851-001-914	#1272-WORK STATION SETS (UCC/INSPECTION)	20,000.00	20,000.00	0.00	0.00	20,000.00	20,000.00 0
		0.00	0.00	0.00	0.00	20,000.00	
		0.00		0.00	0.00		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD Unexpended	%Used
C-04-55-851-001-915	#1272 - OUTDOOR FITNESS EQUIPMENT						
	58,350.00	58,350.00	0.00	0.00	58,350.00	58,350.00	0
		0.00	0.00	0.00	0.00	58,350.00	
		0.00		0.00	0.00		
C-04-55-851-001-916	#1272 - POOL REPAIRS						
	50,000.00	50,000.00	0.00	179,347.69	229,347.69	55,000.00	76
		166,587.69	7,760.00	0.00	0.00	62,760.00	
		166,587.69		0.00	174,347.69		
Control: 900	Total	3,927,000.00	3,927,000.00	0.00	3,927,000.00	355,180.85	91
		3,392,914.33	178,904.82	0.00	0.00	534,085.67	
		3,392,914.33		0.00	3,571,819.15		
Extd: 001	Total						
	3,927,000.00	3,927,000.00	0.00	0.00	3,927,000.00	355,180.85	91
		3,392,914.33	178,904.82	0.00	0.00	534,085.67	
		3,392,914.33		0.00	3,571,819.15		
Department: 851	Total						
	3,927,000.00	3,927,000.00	0.00	0.00	3,927,000.00	355,180.85	91
		3,392,914.33	178,904.82	0.00	0.00	534,085.67	
		3,392,914.33		0.00	3,571,819.15		
C-04-55-852-001-900	#1273 - 2021 ACQUISITIONS/IMPROVEMENTS						
C-04-55-852-001-901	#1273 - 40A COSTS 2021 ACQUIS/IMPROVMTS						
	544,326.00	544,326.00	0.00	0.00	544,326.00	76,868.36	86
		438,907.72	28,549.92	0.00	0.00	105,418.28	
		438,907.72		0.00	467,457.64		
C-04-55-852-001-902	#1273 - POLICE DEPT HEATING SYSTEM						
	500,000.00	500,000.00	0.00	0.00	500,000.00	159,777.41	68
		301,804.30	38,418.29	0.00	0.00	198,195.70	
		301,804.30		0.00	340,222.59		
C-04-55-852-001-903	#1273 - FIRE DEPT REPLACE FIRE TRUCK #1						
	1,223,051.00	1,223,051.00	0.00	0.00	1,223,051.00	0.00	100
		1,223,051.00	0.00	0.00	0.00	0.00	
		1,223,051.00		0.00	1,223,051.00		
C-04-55-852-001-904	#1273 - FD/OEM PURCHASE FORD 350 CREWCAB						
	99,500.00	99,500.00	0.00	0.00	99,500.00	0.00	100
		99,500.00	0.00	0.00	0.00	0.00	
		99,500.00		0.00	99,500.00		
C-04-55-852-001-905	#1273 - FD/OEM PORTABLE SKID UNIT						
	110,000.00	110,000.00	0.00	0.00	110,000.00	28,152.00	74
		81,848.00	0.00	0.00	0.00	28,152.00	
		81,848.00		0.00	81,848.00		
C-04-55-852-001-906	#1273 - FD REMODEL FIRE TRUCK #3						
	67,000.00	67,000.00	0.00	0.00	67,000.00	92.95	100
		44,604.70	22,302.35	0.00	0.00	22,395.30	
		44,604.70		0.00	66,907.05		
C-04-55-852-001-907	#1273-DPW REPLACE UNDERGROUND FUEL TANKS						
	525,000.00	525,000.00	0.00	10,281.47-	514,718.53	0.00	100
		514,718.53	0.00	0.00	0.00	0.00	
		514,718.53		0.00	514,718.53		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended
C-04-55-852-001-908	#1273 - DPW BUCKET TRUCK & DUMP TRUCK					
	263,500.00	263,500.00	0.00	10,281.47	273,781.47	0.00 100
		260,047.17	13,734.30	0.00	0.00	13,734.30
		260,047.17		0.00	273,781.47	
C-04-55-852-001-909	#1273 - DPW HEATING, IONIZATION, ETC					
	38,000.00	38,000.00	0.00	0.00	38,000.00	50.00 100
		37,950.00	0.00	0.00	0.00	50.00
		37,950.00		0.00	37,950.00	
C-04-55-852-001-910	#1273 - ANNEX BUILDING IMPROVEMENTS					
	39,000.00	39,000.00	0.00	0.00	39,000.00	20,014.41 49
		15,985.59	3,000.00	0.00	0.00	23,014.41
		15,985.59		0.00	18,985.59	
C-04-55-852-001-911	#1273 - IT/DIGITAL SIGNS, DESKTOPS(30)					
	104,000.00	104,000.00	0.00	0.00	104,000.00	0.00 100
		88,300.00	15,700.00	0.00	0.00	15,700.00
		88,300.00		0.00	104,000.00	
C-04-55-852-001-912	#1273 - 2021 ROAD IMPROVEMENTS					
	1,500,000.00	1,500,000.00	0.00	0.00	1,500,000.00	1,766.43 100
		1,507,615.85	72,476.72	81,859.00	0.00	74,243.15
		1,507,615.85		81,859.00	1,498,233.57	
C-04-55-852-001-913	#1273 - NJDOT EAST THIRD STREET RECONST.					
	563,576.00	563,576.00	0.00	0.00	563,576.00	0.00 100
		563,576.00	0.00	0.00	0.00	0.00
		563,576.00		0.00	563,576.00	
C-04-55-852-001-914	#1273 - CDBG EAST THIRD STREET RECONST.					
	345,000.00	345,000.00	0.00	0.00	345,000.00	0.00 0
		0.00	0.00	0.00	345,000.00	0.00
		0.00		0.00	0.00	
C-04-55-852-001-915	#1273 - EAST THIRD STREET RECONSTRUCTION					
	169,269.00	169,269.00	0.00	0.00	169,269.00	0.00 100
		169,269.00	0.00	0.00	0.00	0.00
		169,269.00		0.00	169,269.00	
C-04-55-852-001-916	#1273 - EAST FIFTH ST. RECONSTRUCTION					
	650,000.00	650,000.00	0.00	0.00	650,000.00	333,113.17 49
		226,966.96	89,919.87	0.00	0.00	423,033.04
		226,966.96		0.00	316,886.83	
C-04-55-852-001-917	#1273 - CITY HALL PARKING LOT LIGHTING					
	125,000.00	125,000.00	0.00	0.00	125,000.00	83.92 100
		124,916.08	0.00	0.00	0.00	83.92
		124,916.08		0.00	124,916.08	
C-04-55-852-001-918	#1273 - 401 CENTRAL AVE ROOF/HEATING					
	38,000.00	38,000.00	0.00	0.00	38,000.00	4,652.75 88
		33,347.25	0.00	0.00	0.00	4,652.75
		33,347.25		0.00	33,347.25	
Control: 900	Total	6,904,222.00	0.00	0.00	6,904,222.00	624,571.40 90
		5,732,408.15	284,101.45	81,859.00	345,000.00	908,672.85
		5,732,408.15		81,859.00	5,934,650.60	
Extd: 001	Total					
		6,904,222.00	0.00	0.00	6,904,222.00	624,571.40 90
		5,732,408.15	284,101.45	81,859.00	345,000.00	908,672.85
		5,732,408.15		81,859.00	5,934,650.60	

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD Unexpended	%Used
Department: 852	Total	6,904,222.00	0.00	0.00	6,904,222.00	624,571.40	90
		5,732,408.15	284,101.45	81,859.00	345,000.00	908,672.85	
		5,732,408.15		81,859.00	5,934,650.60		
C-04-55-853-001-900	#MC2022-05 LIBRARY EXTERIOR/INTERIOR IMP						
C-04-55-853-001-901	#MC2022-05 LIBRARY EXTERIOR/INTERIOR IMP	0.00	0.00	71,040.56	71,040.56	0.00	100
		71,040.56	0.00	0.00	0.00	0.00	
		71,040.56		0.00	71,040.56		
Control: 900	Total	0.00	0.00	71,040.56	71,040.56	0.00	100
		71,040.56	0.00	0.00	0.00	0.00	
		71,040.56		0.00	71,040.56		
Extd: 001	Total	0.00	0.00	71,040.56	71,040.56	0.00	100
		71,040.56	0.00	0.00	0.00	0.00	
		71,040.56		0.00	71,040.56		
Department: 853	Total	0.00	0.00	71,040.56	71,040.56	0.00	100
		71,040.56	0.00	0.00	0.00	0.00	
		71,040.56		0.00	71,040.56		
C-04-55-854-001-900	#1275 - 2022 EQUIPMENT/IMPROVEMENTS						
C-04-55-854-001-901	#1275 - EQUIPMENT/IMP TO POLICE BUILDING	0.00	0.00	123,529.64	123,529.64	29,626.11	76
		53,503.53	40,400.00	0.00	0.00	70,026.11	
		53,503.53		0.00	93,903.53		
Control: 900	Total	0.00	0.00	123,529.64	123,529.64	29,626.11	76
		53,503.53	40,400.00	0.00	0.00	70,026.11	
		53,503.53		0.00	93,903.53		
Extd: 001	Total	0.00	0.00	123,529.64	123,529.64	29,626.11	76
		53,503.53	40,400.00	0.00	0.00	70,026.11	
		53,503.53		0.00	93,903.53		
Department: 854	Total	0.00	0.00	123,529.64	123,529.64	29,626.11	76
		53,503.53	40,400.00	0.00	0.00	70,026.11	
		53,503.53		0.00	93,903.53		
C-04-55-855-001-900	#MC2022-12 2022 ACQUISITIONS/IMPROVEMENT						
C-04-55-855-001-901	#MC2022-12A LAND PURCHASE - PARKING LOT	260,000.00	0.00	0.00	260,000.00	0.00	100
		260,000.00	0.00	0.00	0.00	0.00	
		260,000.00		0.00	260,000.00		
C-04-55-855-001-902	#MC2022-12B PURCHASE CITY VEHICLES	190,000.00	0.00	0.00	190,000.00	0.00	100
		190,000.00	0.00	0.00	0.00	0.00	
		190,000.00		0.00	190,000.00		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-855-001-903	#MC2022-12C POLICE BUILDING IMPROVEMENTS						
	32,000.00	32,000.00	0.00	0.00	32,000.00	2,026.53	94
		29,973.47	0.00	0.00	0.00	2,026.53	
		29,973.47		0.00	29,973.47		
C-04-55-855-001-904	#MC2022-12D CITY HALL AIR COND/HEATING						
	10,000.00	10,000.00	0.00	0.00	10,000.00	0.00	100
		6,492.04	3,507.96	0.00	0.00	3,507.96	
		6,492.04		0.00	10,000.00		
C-04-55-855-001-905	MC2022-12E HYDRAULIC EQUIP LIFTS -GARAGE						
	22,000.00	22,000.00	0.00	0.00	22,000.00	198.18	99
		21,801.82	0.00	0.00	0.00	198.18	
		21,801.82		0.00	21,801.82		
C-04-55-855-001-906	#MC2022-12F POLICE BUILDING IMPROVEMENTS						
	22,000.00	22,000.00	0.00	0.00	22,000.00	10,502.00	52
		11,498.00	0.00	0.00	0.00	10,502.00	
		11,498.00		0.00	11,498.00		
C-04-55-855-001-907	MC2022-12G PICK-UP TRUCK SIGNAL DIVISION						
	38,220.00	38,220.00	0.00	0.00	38,220.00	315.18	99
		37,904.82	0.00	0.00	0.00	315.18	
		37,904.82		0.00	37,904.82		
Control: 900	Total	574,220.00	574,220.00	0.00	574,220.00	13,041.89	98
			557,670.15	3,507.96	0.00	16,549.85	
			557,670.15		0.00	561,178.11	
Extd: 001	Total						
	574,220.00	574,220.00	0.00	0.00	574,220.00	13,041.89	98
		557,670.15	3,507.96	0.00	0.00	16,549.85	
		557,670.15		0.00	561,178.11		
Department: 855	Total						
	574,220.00	574,220.00	0.00	0.00	574,220.00	13,041.89	98
		557,670.15	3,507.96	0.00	0.00	16,549.85	
		557,670.15		0.00	561,178.11		
C-04-55-856-001-900	#1277 2022 ACQUISITIONS/IMPROVEMENTS						
C-04-55-856-001-901	#1277A Purchase 4 Vehicles Police Dept						
	300,000.00	300,000.00	0.00	0.00	300,000.00	0.00	100
		300,000.00	0.00	0.00	0.00	0.00	
		300,000.00		0.00	300,000.00		
C-04-55-856-001-902	#1277B Pur 190 Microsoft Off Lic -Police						
	51,120.00	51,120.00	0.00	0.00	51,120.00	0.00	100
		51,120.00	0.00	0.00	0.00	0.00	
		51,120.00		0.00	51,120.00		
C-04-55-856-001-903	#1277C Imp to Engine3 Parking Lot/Painti						
	295,000.00	295,000.00	0.00	0.00	295,000.00	3,109.78	99
		291,890.22	0.00	0.00	0.00	3,109.78	
		291,890.22		0.00	291,890.22		
C-04-55-856-001-904	#1277D Acq of vehicles & Equip for DPW						
	831,000.00	831,000.00	0.00	0.00	831,000.00	1.34	100
		617,686.60	213,312.06	0.00	0.00	213,313.40	
		617,686.60		0.00	830,998.66		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-856-001-905	#1277E Rep of Overhead Lighting DPW Yard						
	132,264.00	132,264.00	0.00	0.00	132,264.00	123,975.66	6
		8,288.34	0.00	0.00	0.00	123,975.66	
		8,288.34		0.00	8,288.34		
C-04-55-856-001-906	#1277F Upgrade Software to Office 2021						
	298,951.00	298,951.00	0.00	0.00	298,951.00	37,959.44	87
		101,889.60	159,101.96	0.00	0.00	197,061.40	
		101,889.60		0.00	260,991.56		
C-04-55-856-001-907	#1277G Roadway Improvements-Various Roads						
	1,500,000.00	1,500,000.00	0.00	0.00	1,500,000.00	54,400.75	96
		1,316,835.02	128,764.23	0.00	0.00	183,164.98	
		1,316,835.02		0.00	1,445,599.25		
C-04-55-856-001-908	#1277H Trucks/75 Traffic Calm Ale-Signal						
	770,000.00	770,000.00	0.00	0.00	770,000.00	27,724.82	96
		742,275.18	0.00	0.00	0.00	27,724.82	
		742,275.18		0.00	742,275.18		
C-04-55-856-001-909	#1277 - 40A COSTS/2022 ACQUIS/IMPROVMTS						
	209,442.00	209,442.00	0.00	0.00	209,442.00	17,170.97	92
		159,820.74	32,450.29	0.00	0.00	49,621.26	
		159,820.74		0.00	192,271.03		
Control: 900	Total	4,387,777.00	4,387,777.00	0.00	4,387,777.00	264,342.76	94
		3,589,805.70	533,628.54	0.00	0.00	797,971.30	
		3,589,805.70		0.00	4,123,434.24		
Extd: 001	Total	4,387,777.00	4,387,777.00	0.00	4,387,777.00	264,342.76	94
		3,589,805.70	533,628.54	0.00	0.00	797,971.30	
		3,589,805.70		0.00	4,123,434.24		
Department: 856	Total	4,387,777.00	4,387,777.00	0.00	4,387,777.00	264,342.76	94
		3,589,805.70	533,628.54	0.00	0.00	797,971.30	
		3,589,805.70		0.00	4,123,434.24		
C-04-55-858-001-900	#1278 - 2023 ACQUISITIONS/IMPROVEMENTS						
C-04-55-858-001-901	#1278 - 40A COSTS 2023 ACQUIS/IMPROVMTS						
	969,677.00	969,677.00	0.00	99,000.00-	870,677.00	24,999.95	97
		663,441.24	182,235.81	0.00	0.00	207,235.76	
		663,441.24		0.00	845,677.05		
C-04-55-858-001-902	#1278 - PD SERVER,UPS,RADIOS,911 EQUIP						
	523,000.00	523,000.00	0.00	0.00	523,000.00	449,913.02	14
		73,086.98	0.00	0.00	0.00	449,913.02	
		73,086.98		0.00	73,086.98		
C-04-55-858-001-903	#1278-IT BROADCAST STATION & MOBILE RIG						
	75,000.00	75,000.00	0.00	0.00	75,000.00	22,630.50	70
		978.00	51,391.50	0.00	0.00	74,022.00	
		978.00		0.00	52,369.50		
C-04-55-858-001-904	#1278 - SIGNAL MSG BD,LED,GENERATOR,SHOP						
	515,000.00	515,000.00	0.00	0.00	515,000.00	280,232.81	46
		234,767.19	0.00	0.00	0.00	280,232.81	
		234,767.19		0.00	234,767.19		

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended
C-04-55-858-001-905	#1278 - 3 INTERSECTION TRAFFIC LIGHT					
	300,000.00	300,000.00	0.00	0.00	300,000.00	0.00 100
		100,445.91	199,554.09	0.00	0.00	199,554.09
		100,445.91		0.00	300,000.00	
C-04-55-858-001-906	#1278 - DPW VEHICLES					
	400,000.00	400,000.00	0.00	0.00	400,000.00	73,368.85 82
		326,631.15	0.00	0.00	0.00	73,368.85
		326,631.15		0.00	326,631.15	
C-04-55-858-001-907	#1278 - FD ENGINE #4 REAR PARKING LOT					
	42,000.00	42,000.00	0.00	0.00	42,000.00	0.00 100
		0.00	42,000.00	0.00	0.00	42,000.00
		0.00		0.00	42,000.00	
C-04-55-858-001-908	#1278 - 2023 ROADWAY IMPROVEMENTS					
	1,500,000.00	1,500,000.00	0.00	0.00	1,500,000.00	30,628.16 98
		822,162.92	647,208.92	0.00	0.00	677,837.08
		822,162.92		0.00	1,469,371.84	
C-04-55-858-001-909	#1278 - GRANT AVE/WEST END AVE IMPROVMTS					
	150,000.00	150,000.00	0.00	0.00	150,000.00	150,000.00 0
		0.00	0.00	0.00	0.00	150,000.00
		0.00		0.00	0.00	
C-04-55-858-001-910	#1278 - SAFE ROUTES TO SCHOOL					
	196,000.00	196,000.00	0.00	0.00	196,000.00	111,630.70 43
		0.00	84,369.30	0.00	0.00	196,000.00
		0.00		0.00	84,369.30	
C-04-55-858-001-911	#1278 - RUSHMORE AVE IMPROVEMENTS					
	195,000.00	195,000.00	0.00	0.00	195,000.00	195,000.00 0
		0.00	0.00	0.00	0.00	195,000.00
		0.00		0.00	0.00	
C-04-55-858-001-912	#1278-PLAINFIELD/CLINTON AVE (WF RT 28)					
	300,000.00	300,000.00	0.00	0.00	300,000.00	300,000.00 0
		0.00	0.00	0.00	0.00	300,000.00
		0.00		0.00	0.00	
C-04-55-858-001-913	#1278 - GRANT AVE/EAST 3RD ST IMPROVMTS					
	494,323.00	494,323.00	0.00	0.00	494,323.00	494,323.00 0
		0.00	0.00	0.00	0.00	494,323.00
		0.00		0.00	0.00	
C-04-55-858-001-914	#1278 - NJDOT GRANT ROUTE 28 LFIF 2023					
	3,200,000.00	3,200,000.00	0.00	0.00	3,200,000.00	0.00 100
		2,759,154.09	440,845.91	0.00	0.00	440,845.91
		2,759,154.09		0.00	3,200,000.00	
C-04-55-858-001-915	#1278 - RUSHMORE AQUATICS REC POOL COMPL					
	4,000,000.00	4,000,000.00	0.00	99,000.00	4,099,000.00	0.00 100
		3,946,705.00	152,295.00	0.00	0.00	152,295.00
		3,946,705.00		0.00	4,099,000.00	
C-04-55-858-001-916	#1278 - BRYANT PARK BASKETBALL COURT IMP					
	95,150.00	95,150.00	0.00	0.00	95,150.00	95,150.00 0
		0.00	0.00	0.00	0.00	95,150.00
		0.00		0.00	0.00	

Account No Ordinance No.	Description Orig Auth	Curr Budgeted Expended YTD Expended Curr	Amended Encumber YTD	Transfers Reimbrsd YTD Reimbrsd Curr	Modified Canceled Pd/Chrgd YTD	Balance YTD %Used Unexpended	
C-04-55-858-001-917	#1278 - MADISON AVE PARK EQUIP/WALL/ETC.						
	179,850.00	179,850.00	0.00	0.00	179,850.00	178,975.00	0
		875.00	0.00	0.00	0.00	178,975.00	
		875.00		0.00	875.00		
C-04-55-858-001-918	#1278 - CITY HALL ROOF						
	150,000.00	150,000.00	0.00	0.00	150,000.00	107,400.00	28
		36,800.00	5,800.00	0.00	0.00	113,200.00	
		36,800.00		0.00	42,600.00		
C-04-55-858-001-919	#1278 - PPAC HVAC & ELECTRIC UPGRADES						
	20,000.00	20,000.00	0.00	0.00	20,000.00	3,769.09	81
		13,314.94	2,915.97	0.00	0.00	6,685.06	
		13,314.94		0.00	16,230.91		
Control: 900	Total	13,305,000.00	13,305,000.00	0.00	0.00	13,305,000.00	2,518,021.08 81
		8,978,362.42	1,808,616.50	0.00	0.00	4,326,637.58	
		8,978,362.42		0.00	10,786,978.92		
Extd: 001	Total						
	13,305,000.00	13,305,000.00	0.00	0.00	13,305,000.00	2,518,021.08	81
		8,978,362.42	1,808,616.50	0.00	0.00	4,326,637.58	
		8,978,362.42		0.00	10,786,978.92		
Department: 858	Total						
	13,305,000.00	13,305,000.00	0.00	0.00	13,305,000.00	2,518,021.08	81
		8,978,362.42	1,808,616.50	0.00	0.00	4,326,637.58	
		8,978,362.42		0.00	10,786,978.92		
C-04-55-859-001-900	#1281 - 2024 ACQUISITIONS/IMPROVEMENTS						
C-04-55-859-001-901	#1281 - 40A COSTS 2024 ACQUIS/IMPROVMTS						
	623,762.00	623,762.00	0.00	0.00	623,762.00	520,722.12	17
		8,446.05	94,593.83	0.00	0.00	615,315.95	
		8,446.05		0.00	103,039.88		
C-04-55-859-001-902	#1281 - FD QUINT (REPLACE 1990 UNIT)						
	1,100,000.00	1,100,000.00	0.00	0.00	1,100,000.00	1,100,000.00	0
		0.00	0.00	0.00	0.00	1,100,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-903	#1281 - FD 15 DESKTOP COMPUTERS/SOFTWARE						
	30,000.00	30,000.00	0.00	0.00	30,000.00	397.20	99
		29,602.80	0.00	0.00	0.00	397.20	
		29,602.80		0.00	29,602.80		
C-04-55-859-001-904	#1281 - IT WINDOWS,SWITCHES,PACKET TALK						
	1,020,000.00	1,020,000.00	0.00	0.00	1,020,000.00	635,795.75	38
		18,950.00	365,254.25	0.00	0.00	1,001,050.00	
		18,950.00		0.00	384,204.25		
C-04-55-859-001-905	#1281 - SIGNAL LIBRARY DECORATIVE LIGHTS						
	110,000.00	110,000.00	0.00	0.00	110,000.00	110,000.00	0
		0.00	0.00	0.00	0.00	110,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-906	#1281 - SIGNAL BRIDGE PATH LIGHTING PH 1						
	175,000.00	175,000.00	0.00	0.00	175,000.00	175,000.00	0
		0.00	0.00	0.00	0.00	175,000.00	
		0.00		0.00	0.00		

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C-04-55-859-001-907	#1281 - SIGNAL PEDESTRIAN X-WALK IMPROV.						
	200,000.00	200,000.00	0.00	0.00	200,000.00	200,000.00	0
		0.00	0.00	0.00	0.00	200,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-908	#1281 - COMM DEV PPAC REPAIRS						
	182,500.00	182,500.00	0.00	0.00	182,500.00	166,940.00	9
		12,610.00	2,950.00	0.00	0.00	169,890.00	
		12,610.00		0.00	15,560.00		
C-04-55-859-001-909	#1281 - COMM DEV ANIMAL CONTROL VEHICLE						
	35,000.00	35,000.00	0.00	0.00	35,000.00	35,000.00	0
		0.00	0.00	0.00	0.00	35,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-910	#1281 - PD NEW SERVER & SYSTEM SWITCHES						
	380,000.00	380,000.00	0.00	0.00	380,000.00	380,000.00	0
		0.00	0.00	0.00	0.00	380,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-911	#1281 - PD ROOF						
	30,000.00	30,000.00	0.00	0.00	30,000.00	30,000.00	0
		0.00	0.00	0.00	0.00	30,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-912	#1281 - PD VEHICLE						
	115,000.00	115,000.00	0.00	0.00	115,000.00	115,000.00	0
		0.00	0.00	0.00	0.00	115,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-913	#1281 - REC MILT CAMPBELL REGRADE FIELDS						
	612,500.00	612,500.00	0.00	0.00	612,500.00	612,500.00	0
		0.00	0.00	0.00	0.00	612,500.00	
		0.00		0.00	0.00		
C-04-55-859-001-914	#1281 - REC MATHEWSON BB COURTS/ADA PLAY						
	200,000.00	200,000.00	0.00	0.00	200,000.00	200,000.00	0
		0.00	0.00	0.00	0.00	200,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-915	#1281 - REC MADISON AVE ADA PLAYGROUND						
	180,000.00	180,000.00	0.00	0.00	180,000.00	180,000.00	0
		0.00	0.00	0.00	0.00	180,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-916	#1281 - REC MADISON AVE SKATEPARK REPAIR						
	15,000.00	15,000.00	0.00	0.00	15,000.00	15,000.00	0
		0.00	0.00	0.00	0.00	15,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-917	#1281 - REC HANNAH ATKINS ADA PLAYGROUND						
	125,000.00	125,000.00	0.00	0.00	125,000.00	125,000.00	0
		0.00	0.00	0.00	0.00	125,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-918	#1281 - REC SIEDLER FIELD BB COURT						
	280,000.00	280,000.00	0.00	0.00	280,000.00	280,000.00	0
		0.00	0.00	0.00	0.00	280,000.00	
		0.00		0.00	0.00		

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C-04-55-859-001-919	#1281-DPW G CUT,PICKUPS,ROLLOFF,WHEEL LD	755,000.00	0.00	0.00	755,000.00	755,000.00	0
		0.00	0.00	0.00	0.00	755,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-920	#1281-DPW FLOORING,HEAT,BOILER,ANNEX LTS	135,000.00	0.00	0.00	135,000.00	129,150.00	4
		0.00	5,850.00	0.00	0.00	135,000.00	
		0.00		0.00	5,850.00		
C-04-55-859-001-921	#1281 - 2024 ROADWAY IMPROVEMENTS	1,400,000.00	0.00	0.00	1,400,000.00	877,914.37	37
		250,544.03	271,541.60	0.00	0.00	1,149,455.97	
		250,544.03		0.00	522,085.63		
C-04-55-859-001-922	#1281 - W FRONT (PFIELD AVE TO WATCHUNG)	507,900.00	0.00	0.00	507,900.00	0.00	100
		0.00	507,900.00	0.00	0.00	507,900.00	
		0.00		0.00	507,900.00		
C-04-55-859-001-923	#1281-NJDOT W FRONT(PFIELD AVE TO WATCH)	630,838.00	0.00	0.00	630,838.00	0.00	100
		0.00	630,838.00	0.00	0.00	630,838.00	
		0.00		0.00	630,838.00		
C-04-55-859-001-924	#1281 - 1ST & 2ND PLACE ROADWAY IMPR.	150,000.00	0.00	0.00	150,000.00	150,000.00	0
		0.00	0.00	0.00	0.00	150,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-925	#1281 - ASTOR & LYMAN PLACE ROAD IMPR.	125,000.00	0.00	0.00	125,000.00	125,000.00	0
		0.00	0.00	0.00	0.00	125,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-926	#1281 - RUSHMORE ADA PLAYGROUND	221,731.00	0.00	0.00	221,731.00	105,903.00	52
		3,500.00	112,328.00	0.00	0.00	218,231.00	
		3,500.00		0.00	115,828.00		
C-04-55-859-001-927	#1281 - SEIDLER ADA PLAYGROUND	100,000.00	0.00	0.00	100,000.00	100,000.00	0
		0.00	0.00	0.00	0.00	100,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-928	#1281 - EV CHARGING STATIONS CITY HALL	428,760.00	0.00	0.00	428,760.00	362,712.39	15
		0.00	66,047.61	0.00	0.00	428,760.00	
		0.00		0.00	66,047.61		
C-04-55-859-001-929	#1281 - MADISON AVE BASKETBALL COURT	50,000.00	0.00	0.00	50,000.00	50,000.00	0
		0.00	0.00	0.00	0.00	50,000.00	
		0.00		0.00	0.00		
C-04-55-859-001-930	#1281 - MADISON AVE PARK OUTDOOR FITNESS	100,000.00	0.00	0.00	100,000.00	100,000.00	0
		0.00	0.00	0.00	0.00	100,000.00	
		0.00		0.00	0.00		

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C-04-55-859-001-931	#1281 - SAFE ROUTES TO SCHOOL						
	325,000.00	325,000.00	0.00	0.00	325,000.00	0.00	100
		0.00	325,000.00	0.00	0.00	325,000.00	
		0.00		0.00	325,000.00		
Control: 900	Total	10,342,991.00	10,342,991.00	0.00	10,342,991.00	7,637,034.83	26
		323,652.88	2,382,303.29	0.00	0.00	10,019,338.12	
		323,652.88		0.00	2,705,956.17		
Extd: 001	Total						
	10,342,991.00	10,342,991.00	0.00	0.00	10,342,991.00	7,637,034.83	26
		323,652.88	2,382,303.29	0.00	0.00	10,019,338.12	
		323,652.88		0.00	2,705,956.17		
Department: 859	Total						
	10,342,991.00	10,342,991.00	0.00	0.00	10,342,991.00	7,637,034.83	26
		323,652.88	2,382,303.29	0.00	0.00	10,019,338.12	
		323,652.88		0.00	2,705,956.17		
CAFR: 55	Total						
	58,027,710.00	58,027,710.00	0.00	149,023.87	58,176,733.87	13,544,809.86	77
		38,554,651.29	5,805,976.22	87,239.00	358,535.50	19,350,786.08	
		38,554,651.29		87,239.00	44,273,388.51		
Fund: 04	GENERAL CAPITAL FUND Budgeted Total						
	58,027,710.00	58,027,710.00	0.00	149,023.87	58,176,733.87	13,544,809.86	77
		38,554,651.29	5,805,976.22	87,239.00	358,535.50	19,350,786.08	
		38,554,651.29		87,239.00	44,273,388.51		
Fund: 04	GENERAL CAPITAL FUND Non-Budgeted Total						
	0.00	0.00	0.00	0.00	0.00	0.00	0
		0.00	0.00	0.00	0.00	0.00	
		0.00		0.00	0.00		
Fund: 04	GENERAL CAPITAL FUND Total						
	58,027,710.00	58,027,710.00	0.00	149,023.87	58,176,733.87	13,544,809.86	77
		38,554,651.29	5,805,976.22	87,239.00	358,535.50	19,350,786.08	
		38,554,651.29		87,239.00	44,273,388.51		
Final Budgeted	58,027,710.00	58,027,710.00	0.00	149,023.87	58,176,733.87	13,544,809.86	77
		38,554,651.29	5,805,976.22	87,239.00	358,535.50	19,350,786.08	
		38,554,651.29		87,239.00	44,273,388.51		
Final Non-Budgeted	0.00	0.00	0.00	0.00	0.00	0.00	0
		0.00	0.00	0.00	0.00	0.00	
		0.00		0.00	0.00		
Final Total	58,027,710.00	58,027,710.00	0.00	149,023.87	58,176,733.87	13,544,809.86	77
		38,554,651.29	5,805,976.22	87,239.00	358,535.50	19,350,786.08	
		38,554,651.29		87,239.00	44,273,388.51		