

REVISION				
No.	DESCRIPTION	DATE	BY	CHK BY
1	Revised per NJDEP review comments	1/21/2021	NJP	KRZ



Municipally Owned and Maintained Outfalls			
OUTFALL NUMBER	OUTFALL LOCATION	HORIZONTAL COORDINATES	PIPE DESCRIPTION
1	Spring St to Elizabeth River	N: 678943.856 E: 563002.431	RCP
2	Cornell Pl to Elizabeth River	N: 678567.111 E: 563534.003	28" RCP
3A	Harvard Ave to Elizabeth River	N: 678926.953 E: 564083.919	2-42" RCP
3B	Harvard Ave to Elizabeth River	N: 678685.996 E: 563961.818	36" RCP
4	Ryan St to Elizabeth River	N: 677646.339 E: 564795.443	18" RCP
5	Central Ave Flume to Elizabeth Ave	N: 676033.141 E: 567313.488	16" Culvert & 18" RCP
6	Sanford Ave Outfall to Elizabeth Ave	N: 675621.023 E: 567250.969	Conc. Culvert 4.3' X 3.5'
7	Wilder St to Kean University parking lot to Elizabeth River	N: 672929.199 E: 567997.418	36" RCP
8	Evans Terminal Road, Newark	N: 680030.636 E: 572427.374	24" Clay Pipe

NOTE: ALL STORMWATER INFRASTRUCTURE DEPICTED WITHIN THE I-78 CORRIDOR IS NOT MUNICIPALLY OWNED OR OPERATED.

New Jersey State Owned and Maintained Outfalls			
OUTFALL NUMBER	OUTFALL LOCATION	HORIZONTAL COORDINATES	PIPE DESCRIPTION
9	Glenwood Avenue to Ditch	N: 682725.952 E: 562878.741	21" RCP
10	Garden State Parkway to Elizabeth River	N: 682201.984 E: 562515.937	15" RCP
11	Garden State Parkway to Elizabeth River	N: 682219.088 E: 562519.902	12" RCP
Culvert Outfall	Garden State Parkway to Elizabeth River	N: 682250.032 E: 562531.841	72" X 96" Concrete
12	Garden State Parkway to Elizabeth River	N: 682387.893 E: 562520.445	18" CMP
13	Garden State Parkway to Elizabeth River	N: 682396.019 E: 562520.709	72" RCP
14	Garden State Parkway to Elizabeth River	N: 682395.576 E: 562512.366	30" RCP



General Notes and Data Sources:

This Geographic Information System (GIS) Stormwater Outfall Mapping MS4 map is for demonstration purposes only, any use of this product with respect to accuracy and precision shall be the sole responsibility of the end user.

The areas, boundaries and details, shown on this map, are referenced, in part, from ground surveys, aerial surveys and recorded plans, tax assessment maps and as built documents and are used for Stormwater Outfall MS4 mapping purposes only.

This map was created, in part, utilizing parcel, municipal boundary and location data provided by the Township of Hillside. Stormwater assets, such as inlets & outfalls were provided by the Township of Hillside. Additional Stormwater Assets such as catch basins, manholes and outfalls from Union County Bureau of GIS Division of Engineering, and are indicated within the legend. New Jersey State owned and maintained assets were provided from the State of New Jersey Department of Transportation as built plans of Route I-78 and Garden State Parkway Interchange 142, dated January 2008.

New Jersey State stormwater assets shown on the map include, but not limited to, I-78, Garden State Parkway and any other assets not identified as County or Municipally owned and maintained. [Please refer to the legend and chart shown on this map for identification]

Additional GIS resource data and imagery data was provided by the New Jersey Geographic Information Network. The (NJGIN) data was obtained and provided by the New Jersey Geographic Information Network (NJGIN): https://njgin.state.nj.us/NJ_NJGINExplorer/index.jsp. This secondary product has not been verified by (NJGIN) and is not state-authorized.

Additional cadastral feature mapping data, such as, waterways, roadways, railroads, aerial orthophotography, etc. was obtained from the New Jersey Department of Environmental Protection (NJDEP). The New Jersey Department of Environmental Protection (NJDEP) data was obtained and provided by the New Jersey Department of Environmental Protection: <http://www.state.nj.us/dep/gis/>. This secondary product has not been verified by (NJDEP) and is not state-authorized.

All positions are based on the following:

- NAD 83 (horizontal datum)
- New Jersey State Plane Coordinate System
- English units (feet)

The geodetic accuracy and precision of the Geographic Information System (GIS) data contained in this mapping has not been developed nor verified by a professional licensed land surveyor and shall not be nor is intended to be used in matters requiring delineation and location of true ground horizontal and/or vertical controls, unless otherwise noted.

Legend	
Municipally Owned & Maintained Outfalls	Municipally Owned & Maintained Manholes
Municipally Owned & Maintained Inlets	NJ State Owned & Maintained Outfalls
NJ State Owned & Maintained Manholes	NJ State Owned & Maintained Inlets
NJ State Owned & Maintained Scupper	NJ State Owned & Maintained FES
NJ State Owned & Maintained Headwall	NJ State Owned & Maintained Open Channel
NJ State Owned & Maintained Culvert Outfall	Union County Owned & Maintained Outfalls
Union County Owned & Maintained Manholes	Union County Owned & Maintained Catch Basins
Union County Owned & Maintained Storm Sewer Lines	
Diameter (in)	
10	12
14	15
18	20
21	24
27	30
36	48
72	72
As Built Documents/Storm Pipe Size, Material	
6", CIP	6", RCP
6", CMP	8", RCP
8", CIP	8", PVC
12", Unknown	12", DIP
12", RCP	15", Unknown
15", CMP	15", STEEL
15", RCP	16", DIP
18", Unknown	18", DIP
18", CMP	18", RCP
20", Unknown	21", RCP
21", Unknown	24", Unknown
24", Unknown	24", RCP
30", Unknown	30", RCP
32", Unknown	36", Unknown
36", Unknown	36", RCP
42", CMP	42", RCP
42", Unknown	44", Unknown
48", RCP	72", RCP
72", CMP	72", CMSP
72", X 96", Conc.	72", CMSP
Municipal Boundary	Blocks
Parcels	Rail Roads
Streams	

City of Elizabeth

STORMWATER OUTFALL MS4 MAPPING

TOWNSHIP OF HILLSIDE

UNION COUNTY
OCTOBER 12, 2020

NEW JERSEY
SCALE: 1" = 500'



REMINGTON & VERNICK ENGINEERS
232 KINGS HIGHWAY EAST, HADDONFIELD, NJ 08033
(856) 795-9595, FAX (856) 795-1882, WWW.RVE.COM
Certificate of Authorization: 24 GA 28003300
-ENGINEERING EXCELLENCE-

DRAFT