Pinelands Commission Rain Garden Installation

July 8, 2022
What is a rain garden?

Rain gardens are shallow depressions filled with plants.

Considered green infrastructure, they collect and hold stormwater from roof downspouts, parking lots, lawns and other surfaces, allowing plants and soil to filter out harmful pollutants that may otherwise flow into storm drains and enter streams, rivers, lakes, and other water bodies.

They also recharge groundwater and help to mitigate climate change impacts such as flooding.
The Commission budgeted for the installation of a rain garden in FY 2022. The project is being funded by the Kathleen M. Lynch-van de Sande ("Katie") Fund for the Reforestation of the New Jersey Pinelands.

The fund was established in memory of Ms. Lynch-van de Sande, a Pinelands Commission Environmental Specialist who died in a car accident in June 1989.

In December 2021, the Commission entered into an agreement with the Rutgers Cooperative Extension Water Resources Program to design the rain garden.
Surveying the site
Finalizing the plan

PINELANDS COMMISSION
GREEN INFRASTRUCTURE IMPLEMENTATION PROJECT
15 SPRINGFIELD ROAD, PEMBERTON BOROUGH
BURLINGTON COUNTY, NEW JERSEY
BLOCK: 846 LOTS: 1.01 & 1.02

PROJECT DESCRIPTION:
A RAIN GARDEN (340 S.F.) IS TO BE INSTALLED SOUTHEAST OF THE BUILDING TO CAPTURE, TREAT, AND INFILTRATE THE STORMWATER RUNOFF FROM THE ROOFTOP (247 S.F.). TO AVOID EROSION AN ATRIUM WILL BE USED IN CONJUNCTION WITH AN EROSION CONTROL APRON FOR EXCESS STORMWATER FROM MORE INTENSE STORMS, THE ATRIUM WILL LEAD TO A PIPE UNDERNEATH THE SIDEWALK AND DISCHARGE INTO THE STORMWATER BASIN WITH A ROCK APRON TO DISSIPATE THE EXTRA RUNOFF.

LOCATION MAP (N.T.S):

LEGEND:

1. EXISTING DRAINAGE AREA
2. EDGE OF PAVEMENT
3. EXISTING CENTERLINE
4. EXISTING FENCE
5. EXISTING TREE LINE
6. EXISTING TREE/SHRUB
7. EXISTING BUILDING
8. EXISTING UTILITY POLE
9. EXISTING LIGHT POLE
10. EXISTING CATCH BASIN
11. EXISTING CONTOURS
12. EXISTING SPOT ELEVATIONS
13. LIMIT OF WORK
14. AREA TO BE DEPAVED
15. PROPOSED GREEN INFRASTRUCTURE
16. PROPOSED TOP OF BERM
17. PROPOSED CONTOURS

LIST OF DRAWINGS:

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GENERAL NOTES:
1. SURVEY CONDUCTED BY RUTGERS COOPERATIVE EXTENSION WATER RESOURCES PROGRAM. ALL ELEVATIONS ARE RELATIVE TO THE 100.00' BENCHMARK POINT.
2. EXISTING SOILS ARE WESTPHALIA LOAMY FINE SAND WHICH ARE CLASSIFIED AS HYDROLOGIC SOIL GROUP B WHICH HAVE MODERATE INFILTRATION RATES BASED ON THE NRCS WEB SOIL SURVEY (websoilsurvey.sc.egov.usda.gov).
3. ANY OVERHEAD AND UNDERGROUND UTILITIES SHOWN ARE FROM FIELD OBSERVATIONS AND ARE NOT A COMPLETE REPRESENTATION. A UTILITY MARKOUT NEEDS TO BE CONDUCTED PRIOR TO MOBILIZATION BY THOSE RESPONSIBLE FOR EXCAVATION. NJ ONE CALL 811 OR 800-272-1000
Soil borings
Digging and removing existing soil
Installing the underdrain
Installing the underdrain
Adding the bioretention soil
Connecting the downspout
Placing 1.5 tons of stone
Installing the interpretive sign
Planting 79 native plants
Mulching and watering
All done!
Questions?