

Site Description

1675 Flat River Road in Coventry Rhode Island is a large building that doubles as the Town Hall, Town Offices, and the home for Coventry Public Schools of Rhode Island. The Northern portion of the site is undergoing construction; a new parking lot and stormwater drainage system are being installed. The Southern and Western sides of the site are serviced by a stormwater drainage system made up of primarily catch basins. The Eastern side of the site has downspouts that drain directly into the woods with no treatment or erosion control elements.

Proposed Concept

The proposed concept for this location includes:

- Excavating and installing new rain gardens in the courtyard and north of the employee parking area.
- Removing existing PVC piping from downspouts to the woods.
- Installing new HDPE piping to convey roof runoff to new rain gardens from existing downspouts.
- Removing hardscape (pavement) and installing trees with filter boxes.
- Planting trees in the large grass area across from the main entrance.
- Optional bioretention basin with sediment forebay adjacent to former drop-off lane .

Re-piping the existing roof leaders to new rain gardens will increase stormwater treatment, infiltration, and peak runoff attenuation. It will also reduce erosion to the woods. Removing hardscape and planting trees will reduce runoff, increase infiltration, and shade, and enhance the aesthetics of the site overall.



Existing condition downspout and outlet



Example of proposed rain garden

Rhode Island Infrastructure Bank MRP Green Infrastructure Retrofits

1675 Flat River Road
Coventry, RI

