PLUM AND WALNUT: "A GREEN INTERSECTION"



Pollutant

Stormwater Runoff Capture

Total Suspended Solids (TSS)

Total Phosphorus (TP)

Total Nitrogen (TN)

Increased Public Education Opportunities

Increased Opportunities for Urban Gardening/Farm to Table

Porous Pavers - Patio and Parking Lanes





Quantity Captured/Removed

Per Year

1.4 million gallons/year

2400 lbs/year

50 lbs/year

120 lbs/year

This keystone project is part of the City's ongoing commitment to reduce urban stormwater runoff and associated pollutants from combined sewer overflows and separate storm sewers. The drainage area contributing to this intersection currently has 76,000 square feet of impervious area. New porous pavement and bioretention areas (rain gardens) capture approximately 86% of annual stormwater run-off, which equates to over 1,400,000 gallons per year. In addition to the project's significant environmental benefits, the new intersection design has provided additional traffic-calming and pedestrian safety benefits, with an average traffic speed reduction of 5 miles per hour.

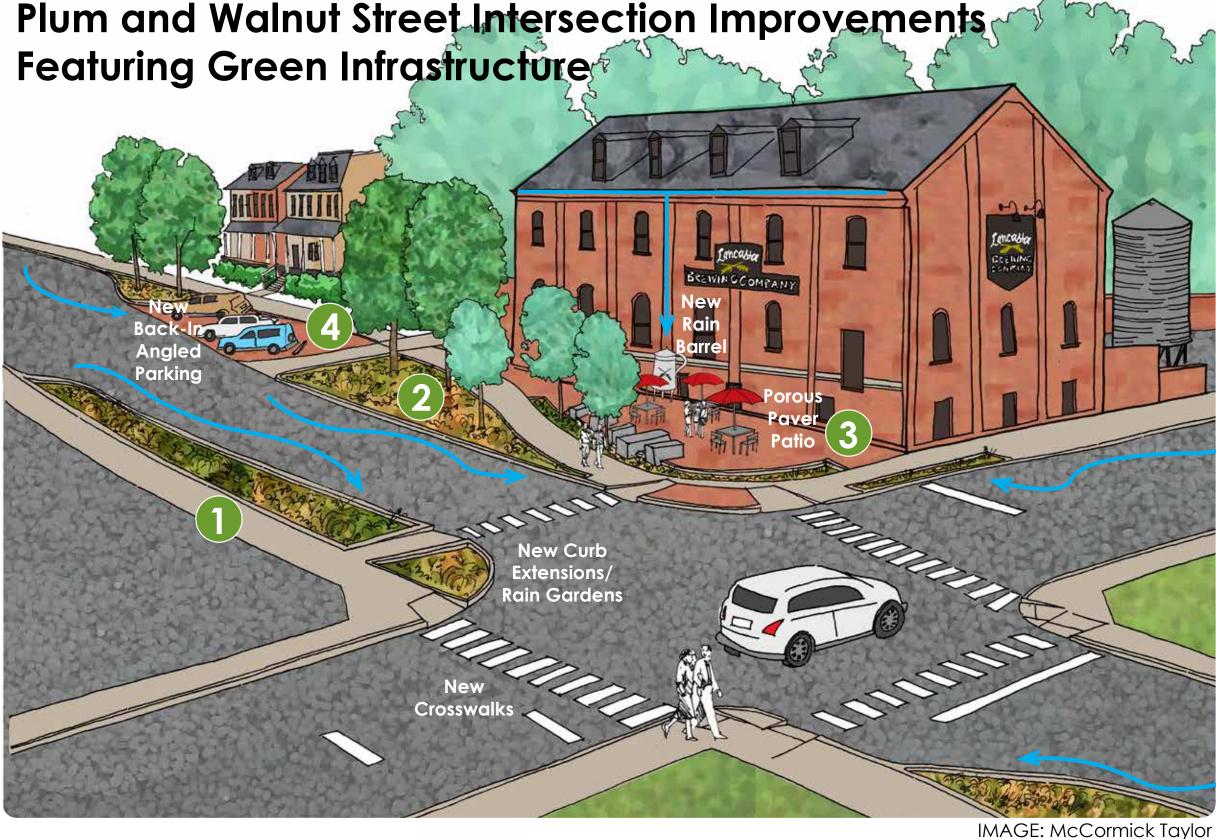


BREWING COMPANY

The green stormwater infrastructure installed at Plum and Walnut includes the following:

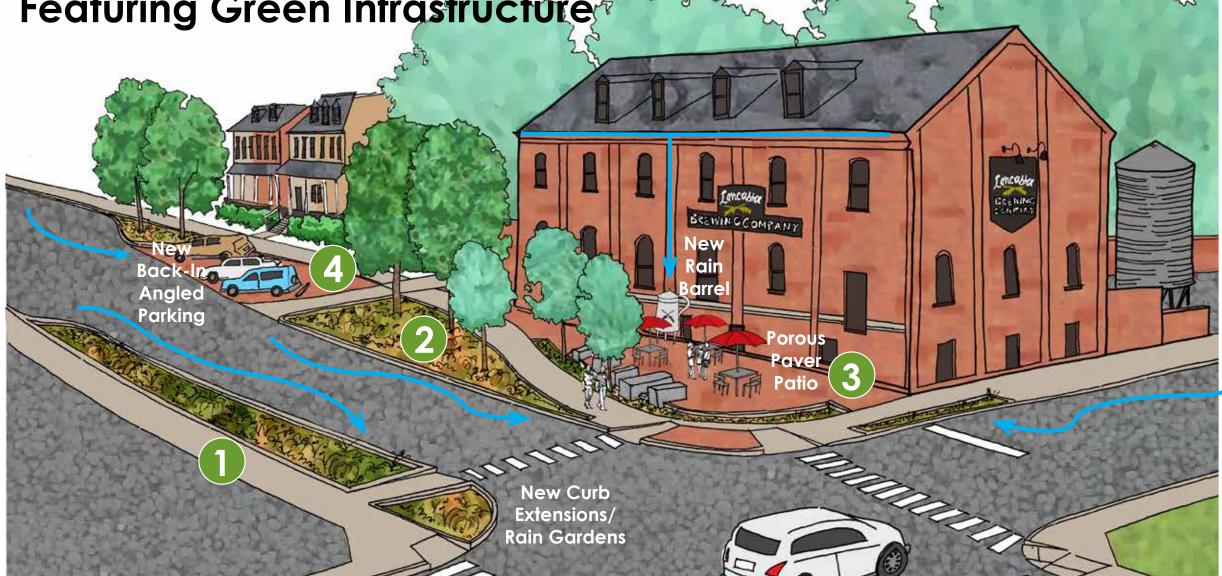
- Vegetated curb extensions with subsurface infiltration facilities at 3 corners
- New porous paver patio and parking spaces with subsurface infiltration facilities
- New porous paver angled back-in parking spaces
- 900 gallon cistern in form of public art collects building runoff
- Inlet filter inserts for pretreatment





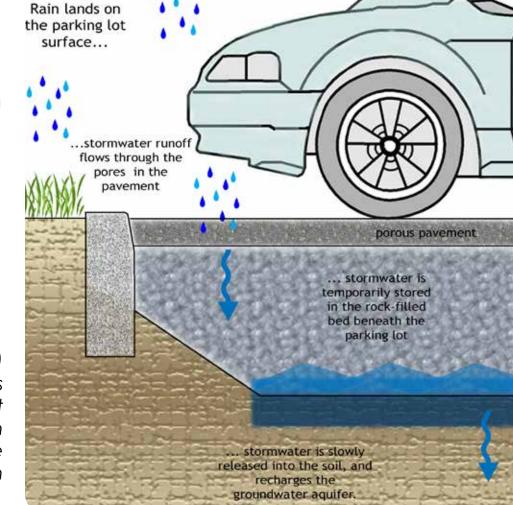


Additional Benefits Include: Reduced Need for Water Treatment and Associated Electricity Usage Reduced Urban Heat Island Effect Increased Traffic-Calming and Pedestrian Safety Increased Property Values



Porous pavement consists of a pervious surface course underlain by an aggregate trench placed on uncompacted subgrade to facilitate stormwater storage and/or infiltration. Porous pavement can be asphalt, concrete, or paver blocks and generally looks similar to regular pavement.

> (RIGHT) Porous Pavement Subsurface Infiltration







OH2MHILL

Curb Extensions and Rain Gardens

Rain gardens and vegetated curb extensions are designed to capture stormwater runoff from adjacent impervious areas through a process called "bioretention" Water is collected before infiltrating into the groundwater below. Plants help to prevent soil erosion while also increasing evapotranspiration of stormwater.





(RIGHT)

