Site 7: Johnson & Johnson Pharmaceutical Research & Development, LLC

BMPs:
Underground infiltration gallery
Porous pavement
Bioretention swales
Constructed stormwater wetlands (future)

Address: Welsh & McKean Roads Spring House, PA 19473
Property owner: Ortho-McNeil Pharmaceutical
Website: www.jnj.com
Watershed: Neshaminy Creek

The Johnson and Johnson Spring House Property has a long-term build out plan which incorporates a porous pavement parking lot with an underground infiltration gallery, and bioretention swales. These BMPs will all flow to constructed wetlands once the project is complete. This system will reduce the volume of stormwater generated from a current building expansion project by approximately 15% when compared to the pre-development conditions.

Planning your visit:
- Visitors must schedule their visits in advance
- Visitors must sign in when entering the property
- No use of Photographic equipment unless approved by site contact person
- Hard hats, vests, and protective eyewear are necessary to wear at locations under construction (available on site if needed)

Contact Info:
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Parking:
Since this property is currently under construction, parking requirements will change. Please inquire about parking when scheduling your visit to see the Stormwater BMPs.

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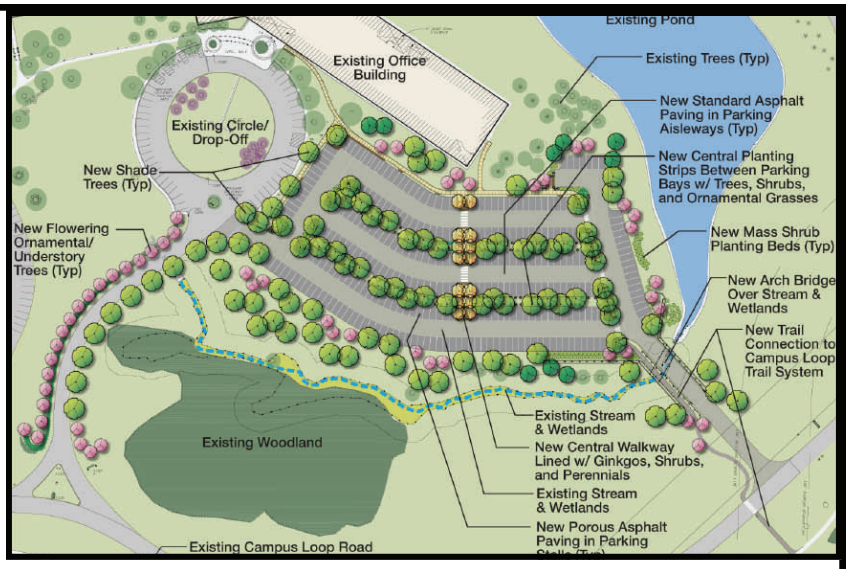

The Master Site Plan includes multiple stormwater BMPs **(above).**

An additional infiltration swale collects any stormwater that does not seep through the porous pavement **(left).**

History of the Project

Percolation testing demonstrated that the area of the parking lot would be a suitable location for the proposed porous pavement / infiltration bed. The infiltration rate in the proposed area was determined to be 1.04 in/hr. The pervious pavement and infiltration beds were designed to infiltrate approximately 42% of the stormwater volume required to be managed throughout the life of the project. The remaining portion will be handled using other methods in later phases of the project including bioretention swales, constructed wetlands, and the use of non-structural BMP's including preservation / enhancement of existing natural features and the utilization of natural flow pathways in the overall planning and design.

Construction of the Porous Pavement

The cells were dug and lined with geotextile fabric. Then, the perforated inflow pipes were set at the design elevations. **(Top Pictures)**

The inlet pipes from the bioretention areas between the parking lot cells were set, and the cells were filled with R-4 stone **(Bottom Pictures)**

Photo credits: World Wide Engineering, Johnson & Johnson