

# Mary Lanes Seven Hills, OH

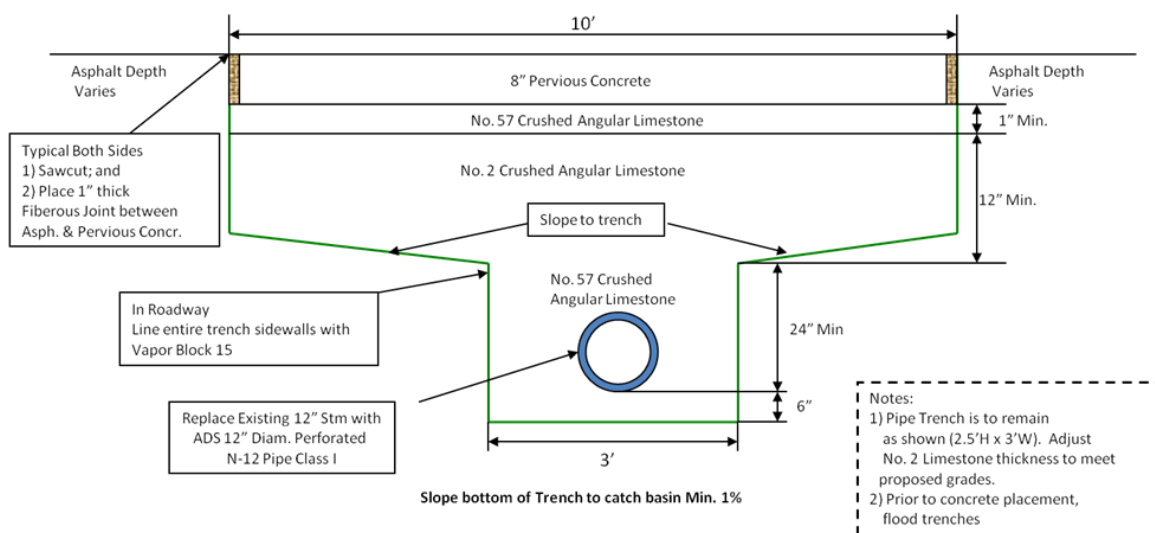
**Project Type:** *Pervious Pavement*

**Description:** Several of the residents on North Mary and South Mary Lanes in Seven Hills were experiencing flooding as surface water runoff by-passed catch basins and ditches in the road and collected at the lower elevations on the street. Further analysis showed this problem stemmed from a loss of crown in the road and filling in of ditches by residents. To alleviate flooding, the City of Seven Hills replaced sections of the existing impervious street surface with pervious concrete. The goals of this project were to provide a temporary fix to intercept surface water and direct flow to the storm sewer.

**Size:** Due to the steepness of slope, engineers chose five locations each 10' wide. The pervious pavement was placed where existing sewer lines crossed the road.

**Design:** The construction consisted of 8 inches of pervious concrete over about 3 feet of stone base with drainage pipes. The City of Seven Hills Service Department installed liner, pipe, and stone across the entire road length. North Coast Concrete of Valley View installed the pervious concrete and Carr Brothers supplied the concrete.

**Mary Lanes – Pervious Trench Drain Detail**



**Cost:** Pervious concrete was cheaper than trench drains for this project. Total project cost \$22,500. The pervious concrete was \$14,755 or 122.95/SY the remaining costs were pipe, stone and connections. [The cost of putting in trench drain was \$35,000.]

**Maintenance:** The City of Seven Hills performs maintenance twice a year, in the spring and fall (after the leaves fall), using a Vactor truck to vacuum the pores and pressure wash the area.

**Application:** This type of project is ideal for parking lot applications, pedestrian area, sidewalks, walking paths, or other areas of low traffic.

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