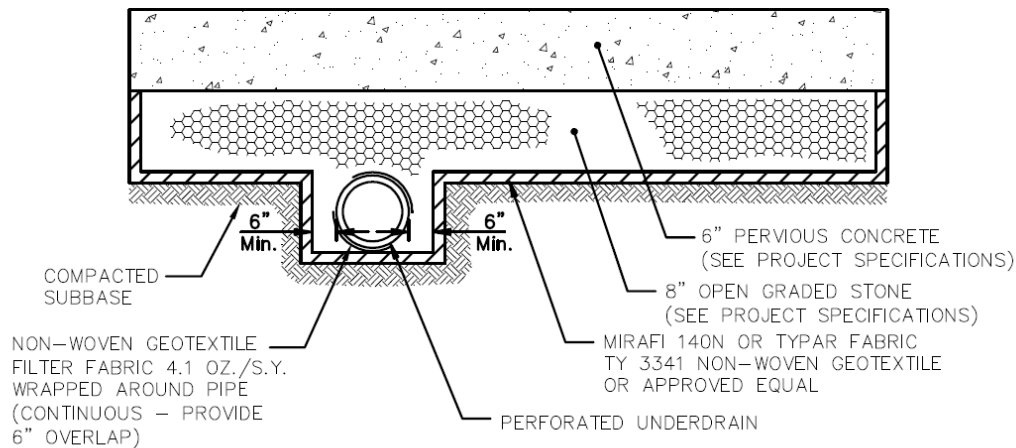




Naperville Park District Permeable Parking Lot Info

In 2012, the Park District installed a pervious concrete parking lot at Dorothea Weigand Riverfront Park (2436 S Washington St) to replace a gravel parking lot that was repeatedly washing out and depositing gravel into the DuPage River during flooding events. The pervious concrete lot was installed with 8" of open graded stone base material and 6" of pervious concrete, see picture below. Within 2 years, it was quickly discovered that the voids in the pervious concrete were filling in with silt, and due to the inconsistency in the voids, could not easily be cleaned out with a vacuum truck. Additionally, pervious concrete is prone to spalling in a parking lot application due to the abrasion from turning wheels in entrances and drive aisles. In 2020 the section of driveway that meets the parking lot at this location was repaved with more pervious concrete due to deterioration, and that itself has broken down already. Pervious concrete was also installed at Sportsman's Park in 2014 but was replaced with asphalt in 2023 due to its lack of durability. A local contractor certified in the installation of pervious concrete expressed that the best applications for this product are parking stalls, walkways, center of alleys, or residential driveways.



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PERVIOUS CONCRETE SECTION

SCALE: NTS

The Park District installed permeable paver parking lots at Winding Creek Park (2009), Seager Park (2010), and Knoch Knolls Park (2013). Minimal maintenance has been completed at any of those locations since installation, with Winding Creek undergoing restorative maintenance in the fall of 2024 to return infiltration levels to post-construction conditions. Moving forward, a street sweeper will be used at each location twice per year to remove surface debris and joint aggregate will be replenished as needed.