

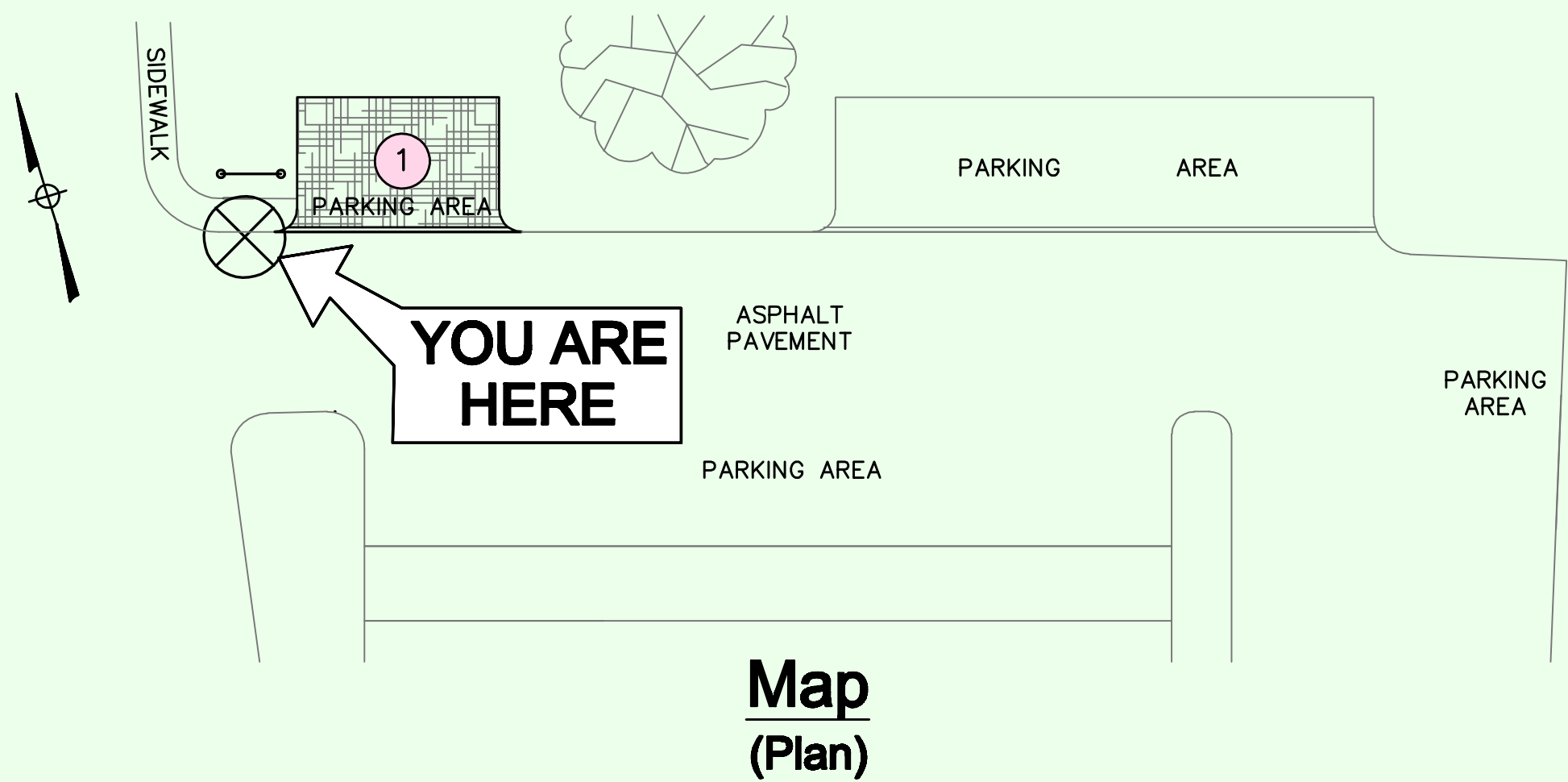
PROBLEM:

PARKING LOT STORMWATER RUNOFF TRADITIONALLY FLOWS OVER AN ASPHALT (IMPERVIOUS) SURFACE. THE RUNOFF ACCUMULATES AND TRANSPORTS CONTAMINANTS SUCH AS PARTICULATES, OILS, FLOATABLES AND TRASH BEFORE ENTERING CATCH BASINS AND WATERBODIES.

HOLE-IN-THE-WALL PARKING LOT  
LONG ISLAND SOUND STORMWATER QUALITY IMPROVEMENTS  
KBI FLEXI®-PAVE

SOLUTION:

PERVIOUS SURFACE PARKING LOTS ARE CONSTRUCTED TO FILTER, TREAT AND DECREASE STORMWATER RUNOFF THEREBY REDUCING CONTAMINANTS ENTERING CATCH BASINS AND WATERBODIES.



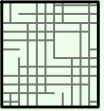
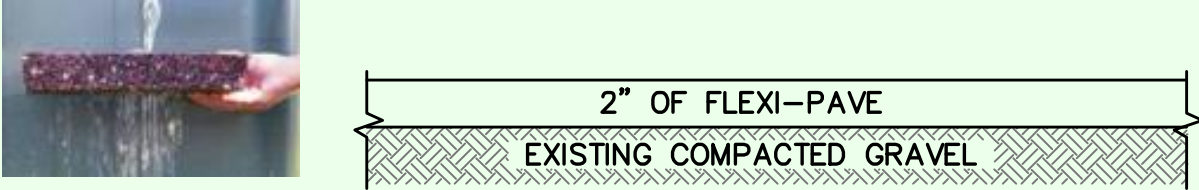
Installation Process

The installation of this product is a cold installation. Moisture cure urethane is a single component product which is formulated to use moisture as its second component, eliminating the need for mixing as well as offering a broader environmentally compatible application capability. Smaller installations use trowels and bull floats very similar to the installation of concrete. For larger jobs, the product can be applied using a modified paving box.

Geotextile permeable fabric is used below Flexi-Pave to prevent fines from migrating up and to prevent weed growth.



Pervious Parking Surface Components

Item	Layers	Description
 1 KBI FLEXI®-PAVE For parking spaces in this location		KBI FLEXI®-PAVE is a flexible, porous, weight bearing paving system alternative to traditional impervious asphalt pavement. This material is made from recycled tires and aggregate rock, bound together with moisture cure urethane. Since Flexi-Pave is created from the residual of waste tires, it provides a solution to the environmental and economic concerns associated with the disposal of worn tires in landfills and incinerators while enhancing the natural cleansing flow of water through the ground.

Interesting Facts

In recent years, a wide range of permeable pavement materials have become readily available and widely used as alternatives to traditional pavement construction materials. These permeable pavement materials are appropriate not only for parking surfaces but for pedestrian walkways, driveways and residential roads. These materials have proven to be practical, cost-effective, and watershed-friendly due to their ability to reduce stormwater runoff.

Because permeable materials allow water to pass through the surface of porous pavement, both stormwater runoff volume and impacts to water quality are reduced. This infiltration of runoff can reduce flooding, increase recharge to groundwater supplies, filter out contaminants, and help keep source water supplies clean.

Advantages:

- Flexible
- Porous
- Non-cracking
- Slip-resistant
- Impact absorption
- Many color options (an earth color-brown is used here)
- Resistant to contaminants such as oil, salt water and harsh chemicals
- Made from recycled tires

Acknowledgements

KBI Flexi®-Pave donated by:  
K.B. Industries, Inc.  
28100 US Hwy. 19 North, Suite 410  
Clearwater, FL 33761  
(877) KBI-FLEX  
www.kbius.com



Educational Corner

- Terms to study:
- Pervious parking surface
  - Porous pavement
  - Moisture Cure Urethane
  - Geotextile fabric
  - Sustainable Urban Drainage Systems (SUDS)



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