

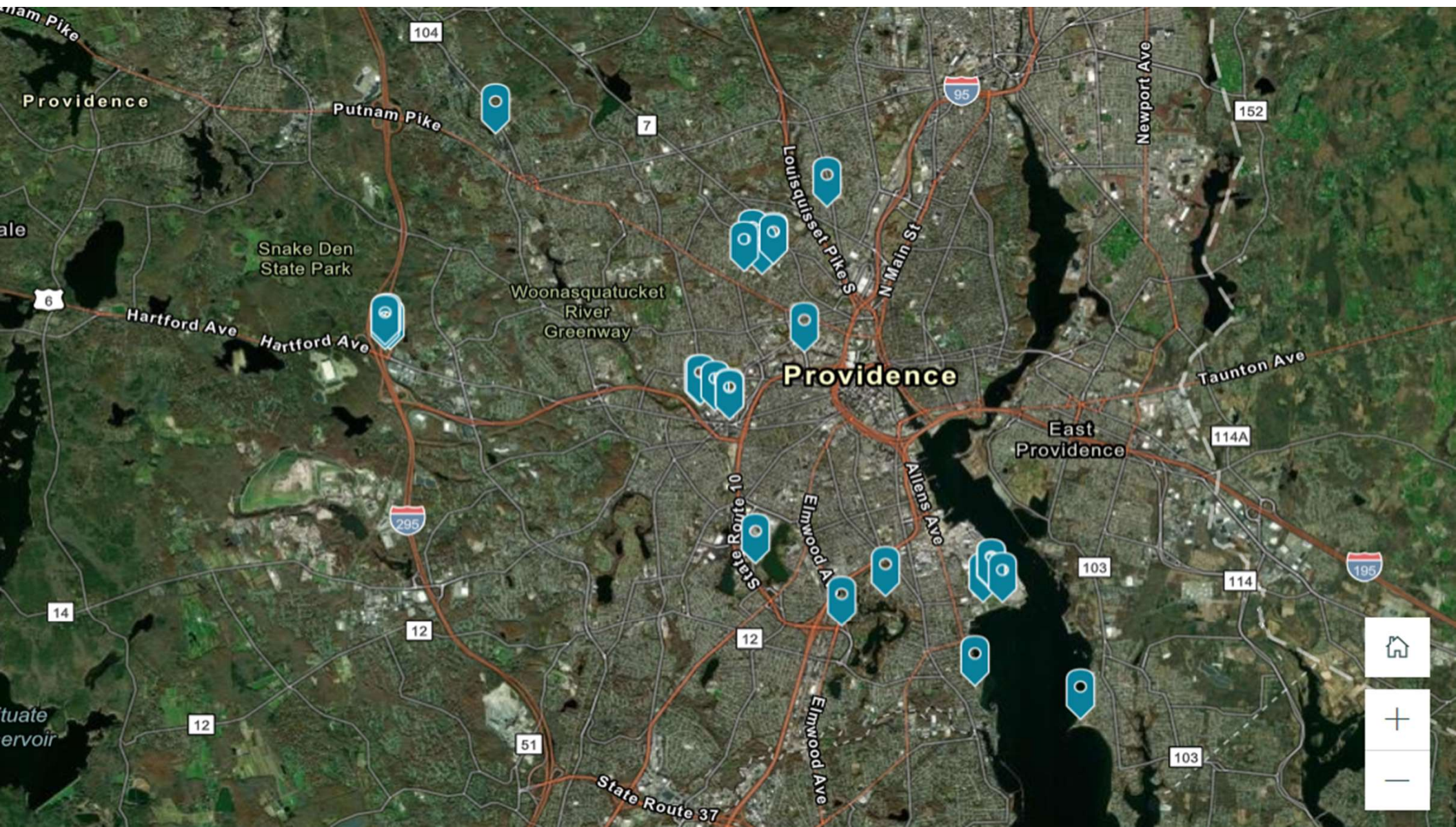
# MONITORING GREEN INFRASTRUCTURE FUNCTION IN RHODE ISLAND



NARRAGANSETT BAY  
ESTUARY PROGRAM



TLC2000 2022/08/23 14:25:01



Providence

Providence

East Providence

Snake Den State Park

Woonasquatucket River Greenway

6

104

7

95

152

14

12

12

51

12

103

114

195

103









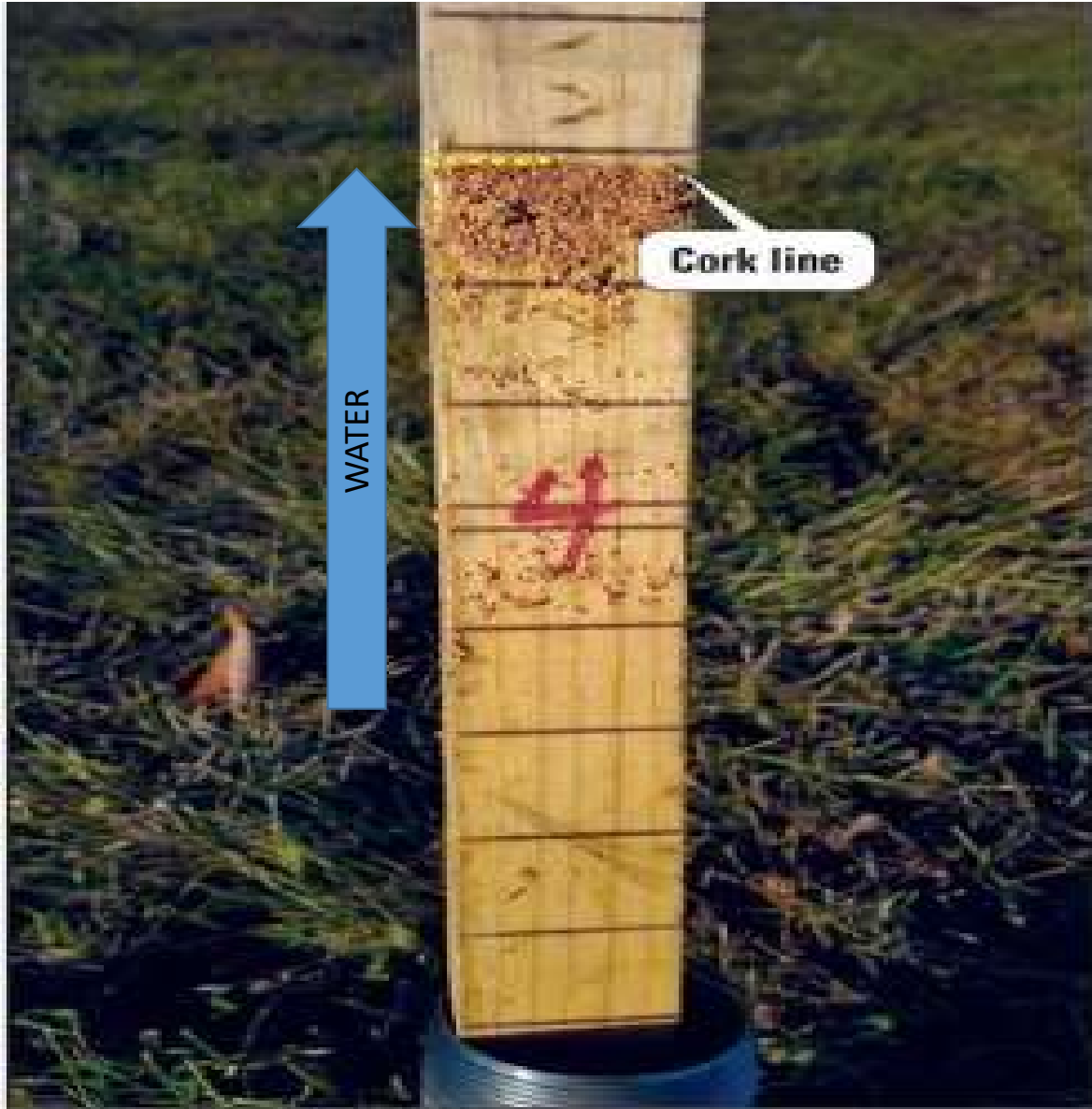








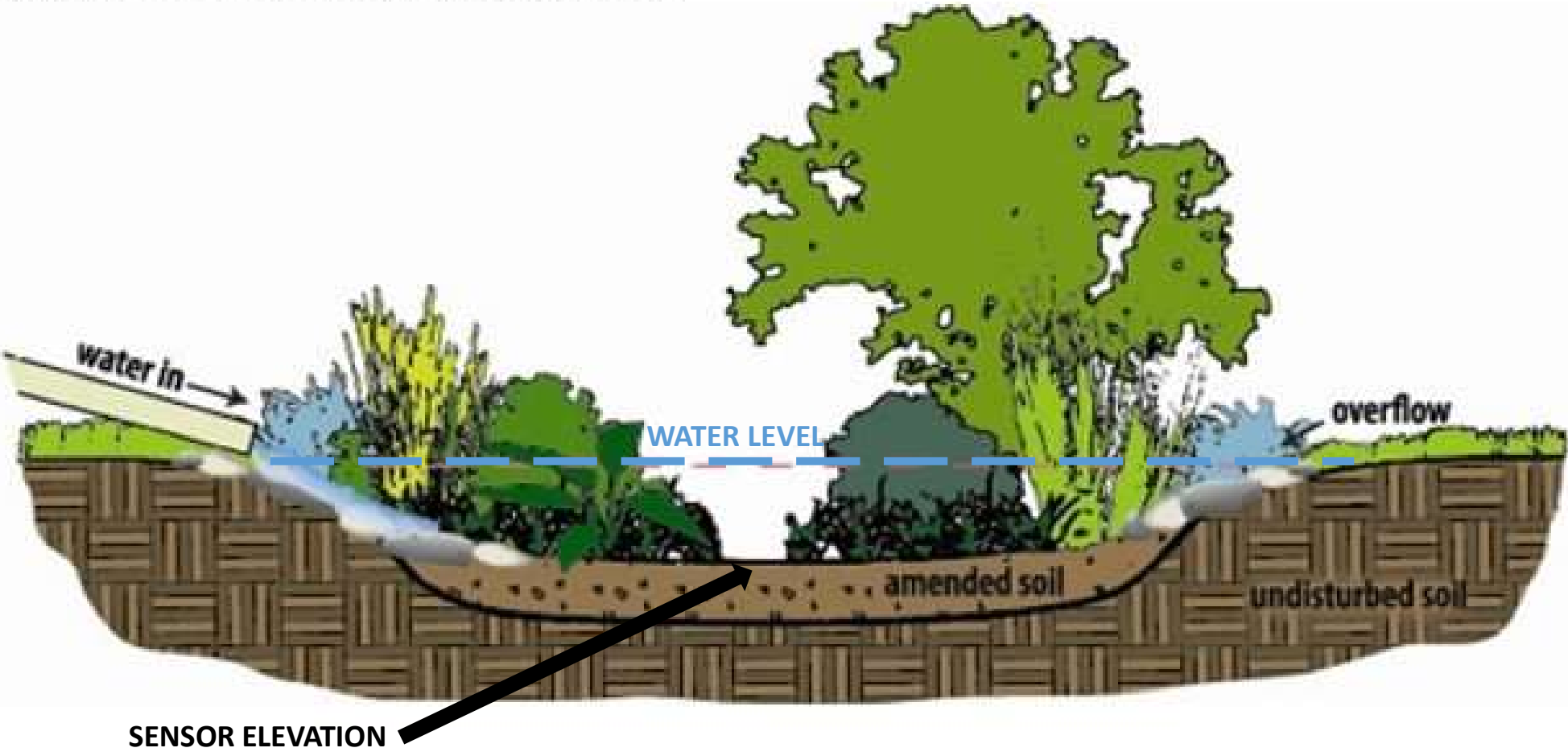






Schematic of design

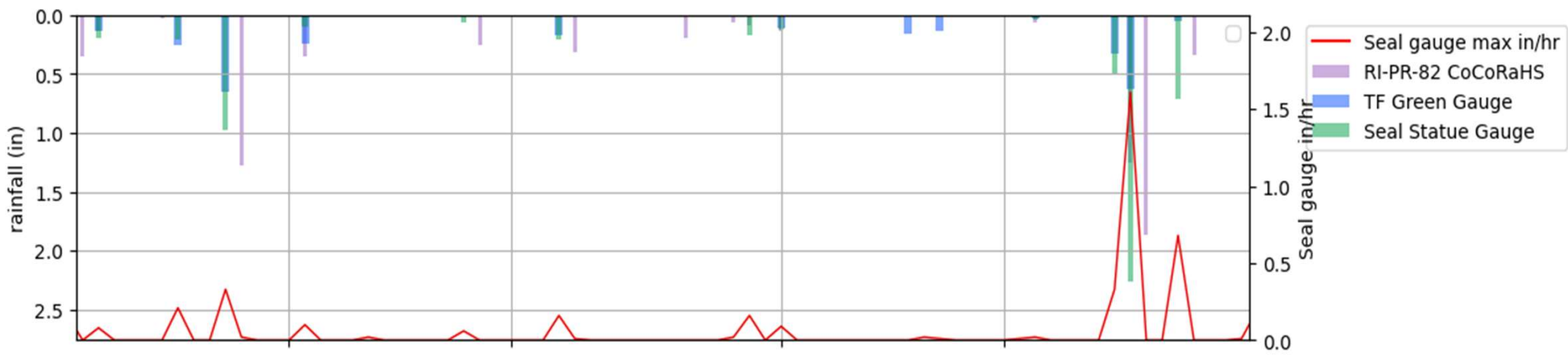
Caption: Cross-section of bio-infiltration BMP



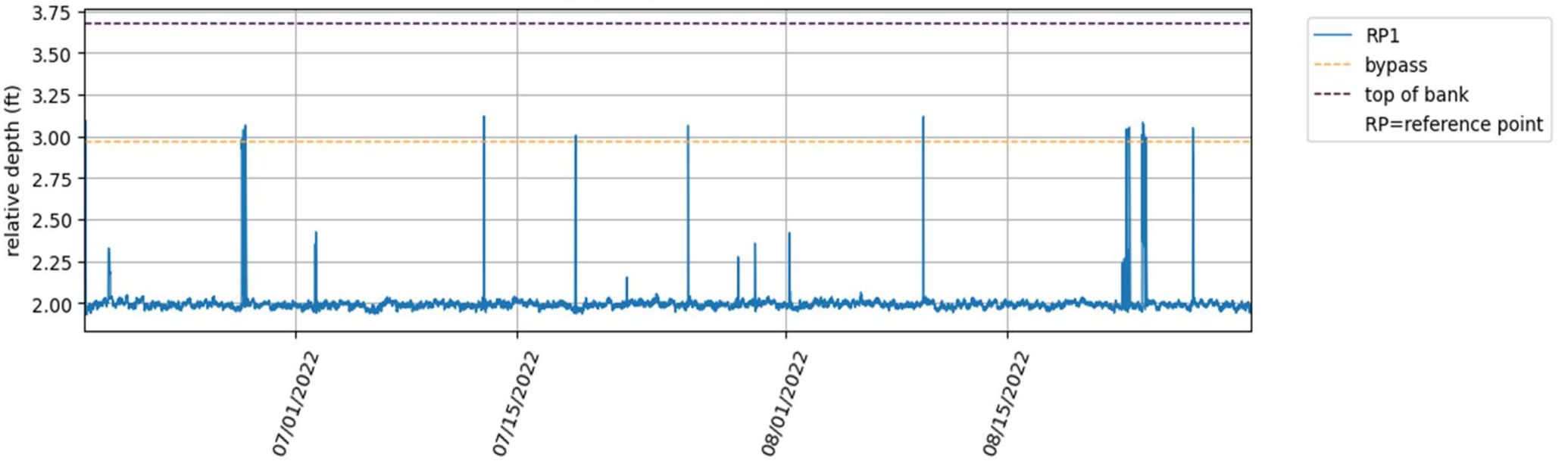


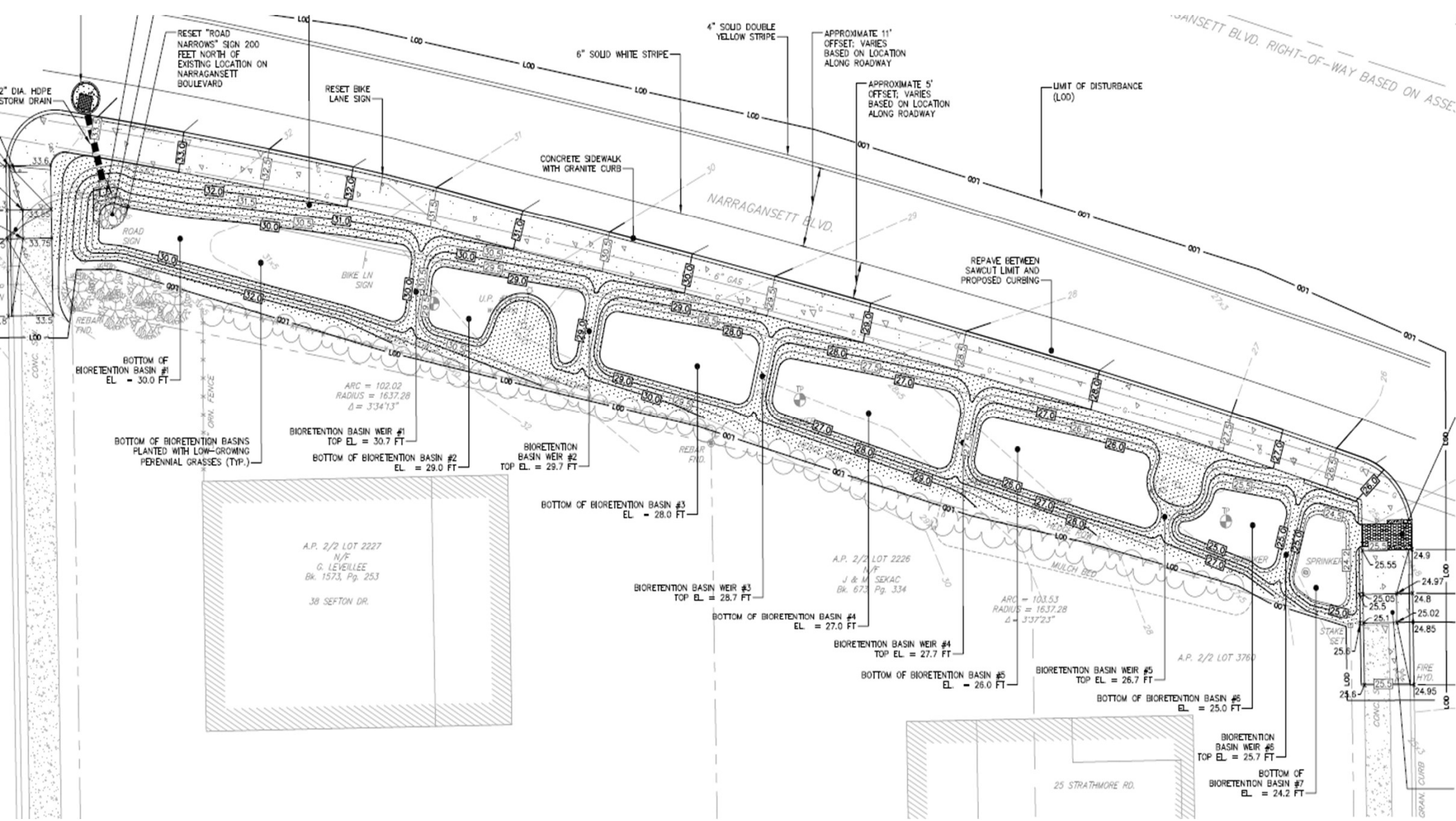
PLUS EXISTING  
PRECIPITATION DATA

NOAA/NWS/CoCoRaHS



Manton Ave Treefilter











TLC200 PRO 2022/09/25 17:35:10



What did we find out?

CHALLENGES WITH:

DESIGN

CONSTRUCTION

MAINTENANCE

COMBINATION OF ALL 3

# Sizing - Capacity



TLC2000 2022/06/08 06:50:01

## Sizing - Capacity



debris blocking inlet



vegetation blocking inlet



Sizing – Capacity  
deposited sediment has changed grade





Sizing – Capacity  
deposited sediment has changed grade



# Sizing – Capacity

deposited sediment has changed grade



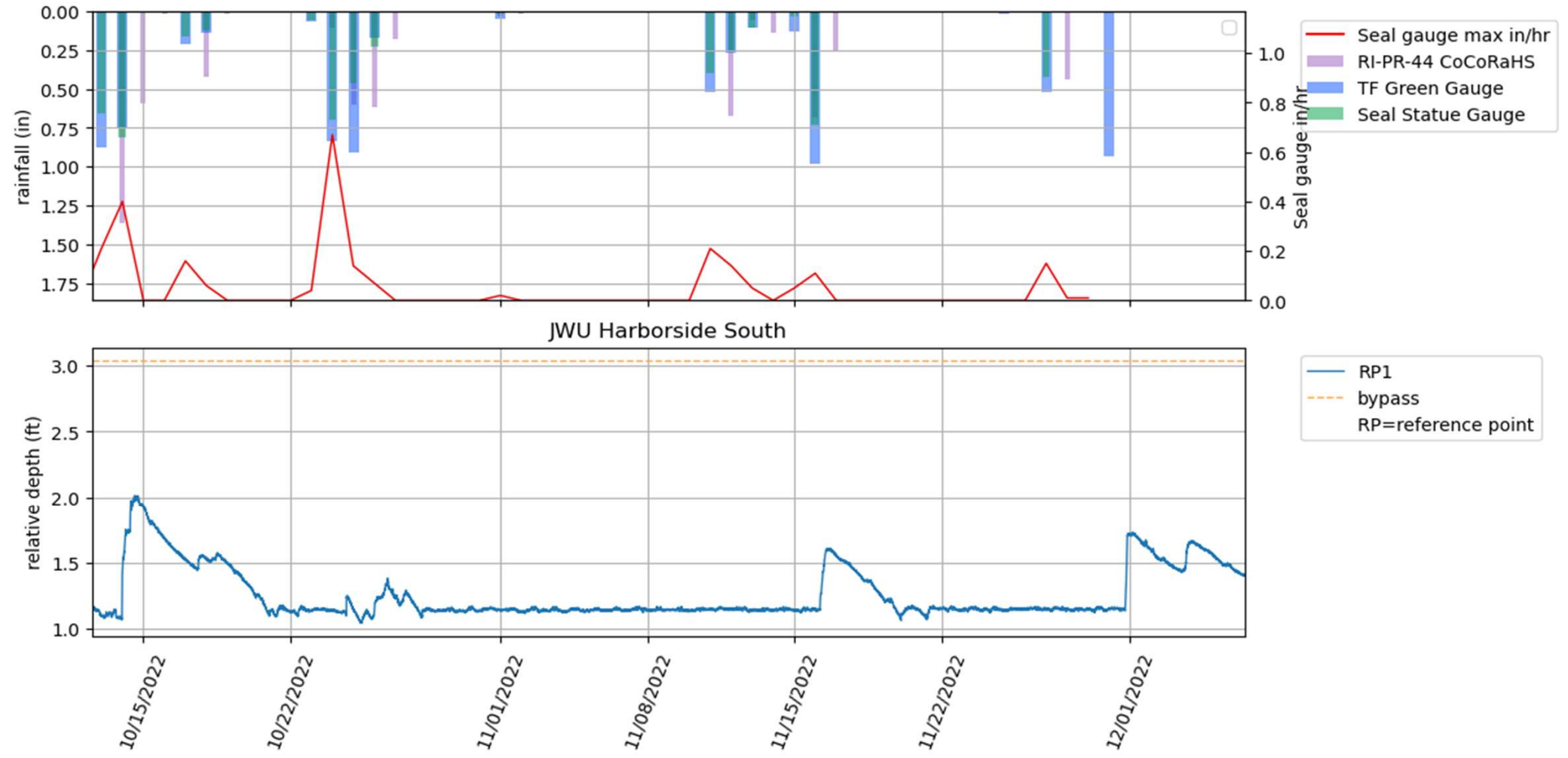
decreased volume capacity



decreased volume capacity



# deposited sediment has slowed infiltration rates



## Roadway/Parking lot grade



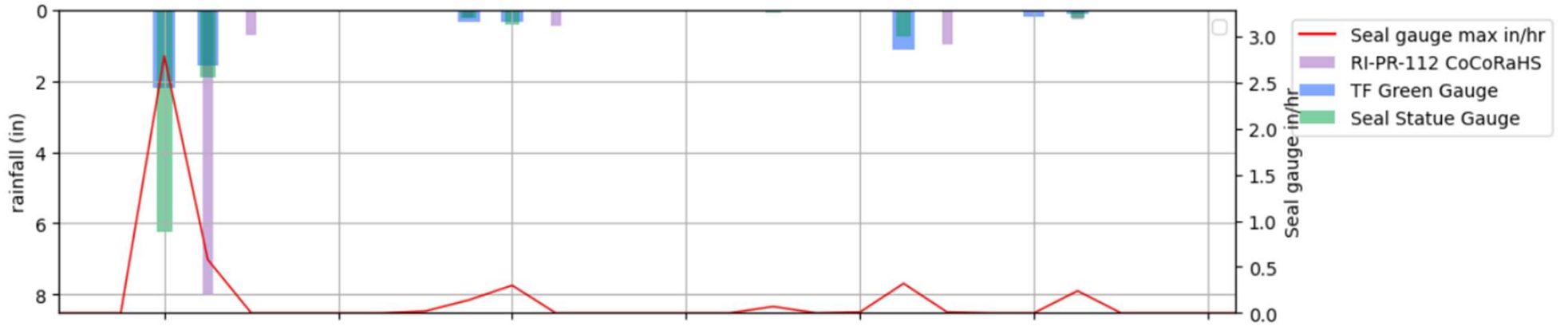
Inlet slope not steep enough



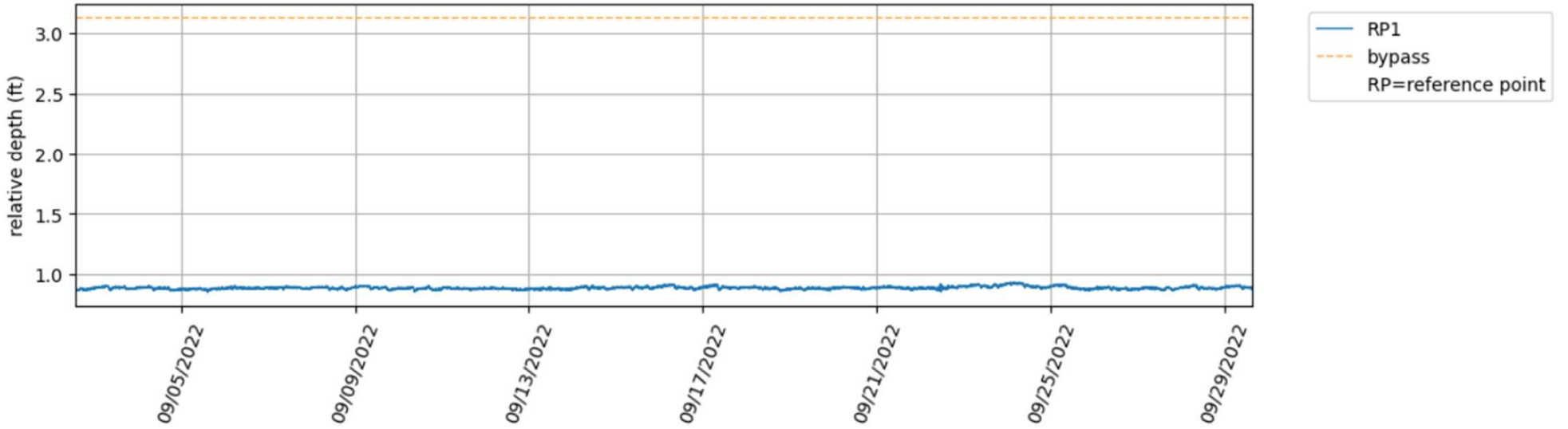
Not constructed as designed







RIDOT I295 SW













# Take Home Message

Continue to monitor and inspect your green infrastructure after implementation.

