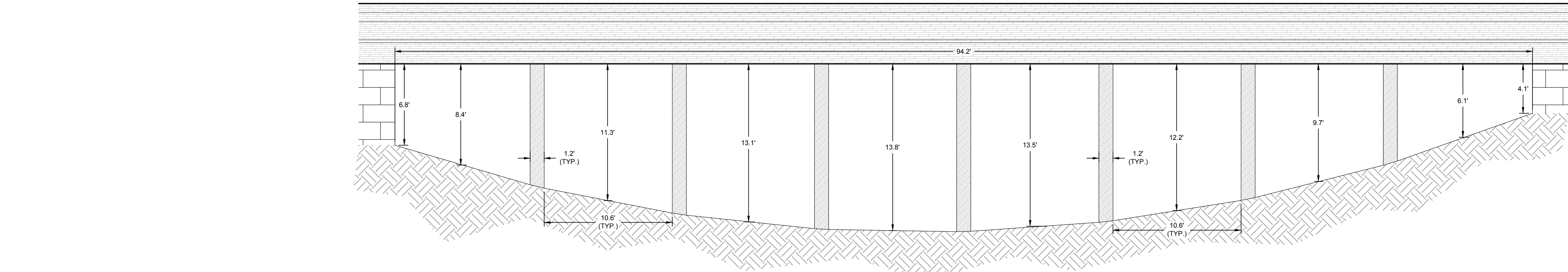


## **APPENDIX A:**

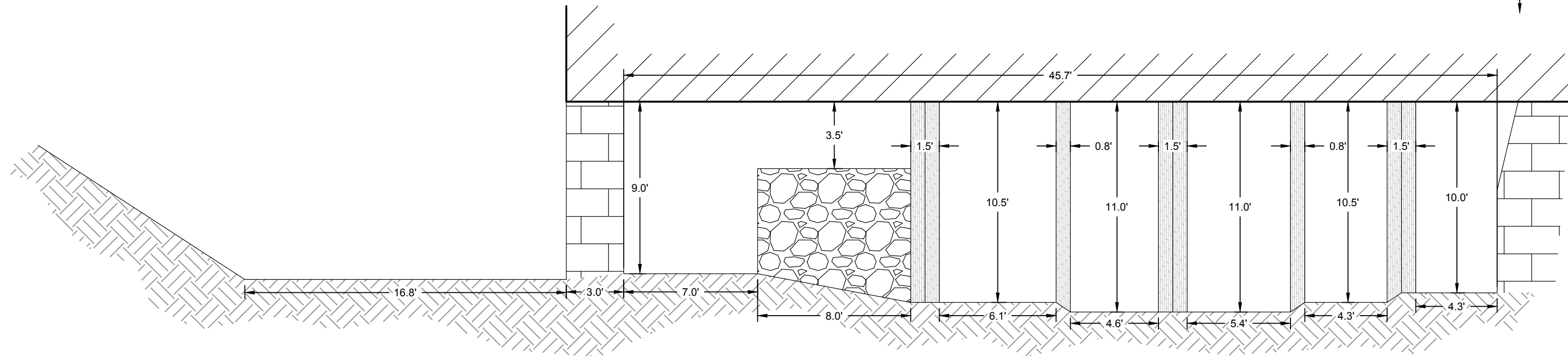
### Mill Creek Restriction Sections

last modified: 01/31/19 by ml H:\Projects\2018\18113 Mystic River Restoration Project\Drawings\18113 GPS.dwg printed: 01/31/19 by ml



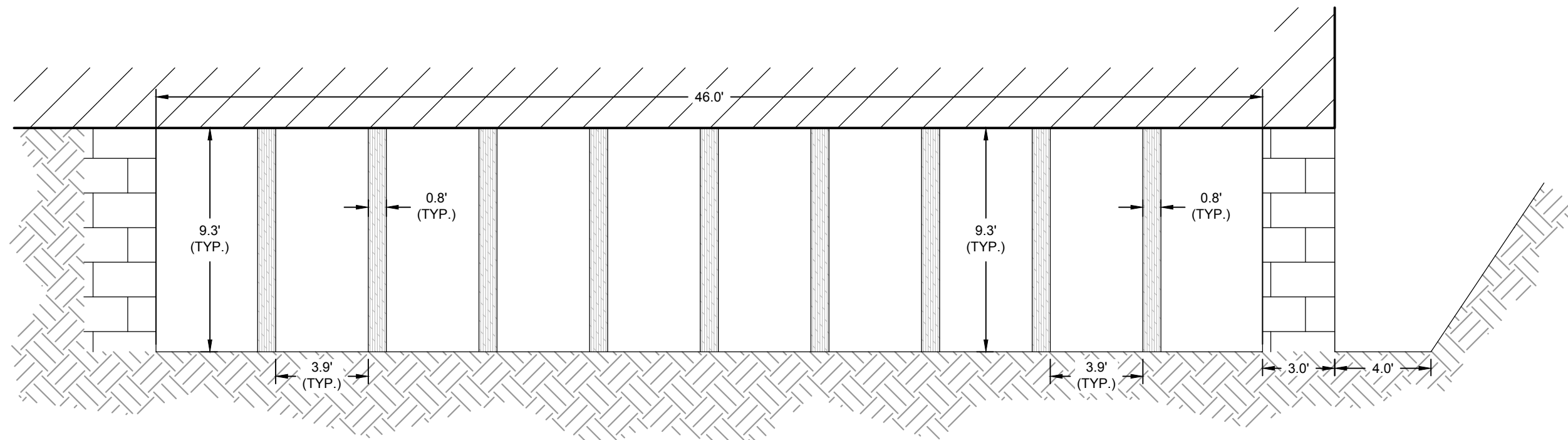
RESTRICTION #1  
MBTA RAILROAD BRIDGE

FLOW



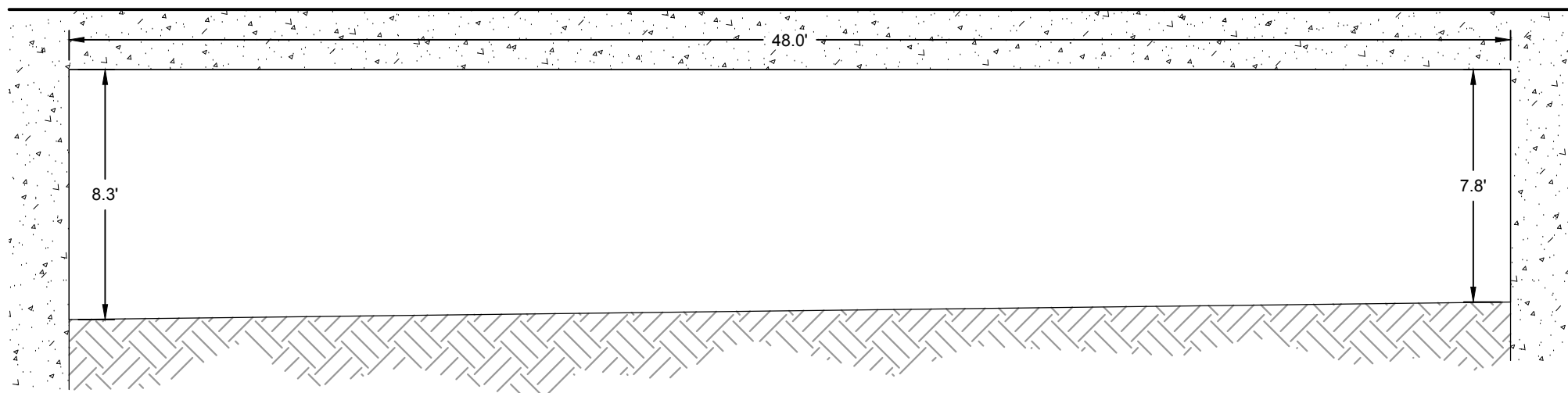
RESTRICTION #2  
MILL BUILDING SECTION 2

FLOW



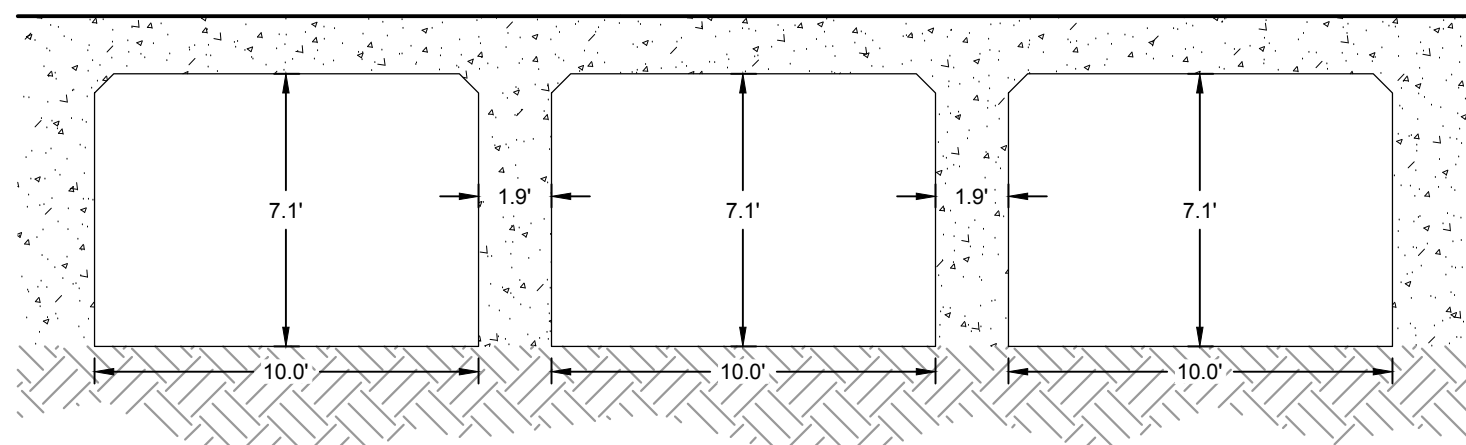
RESTRICTION #2  
MILL BUILDING SECTION 1

FLOW



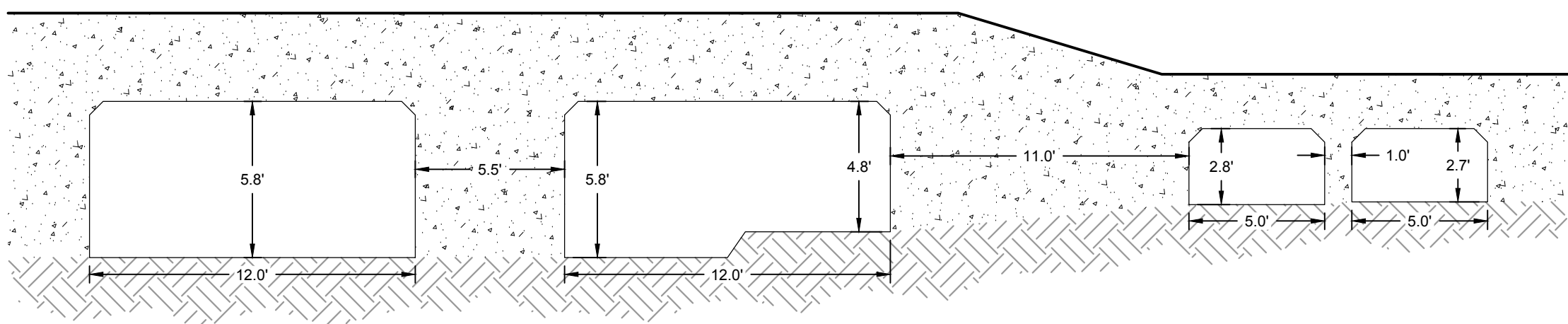
RESTRICTION #3  
BROADWAY BRIDGE

FLOW



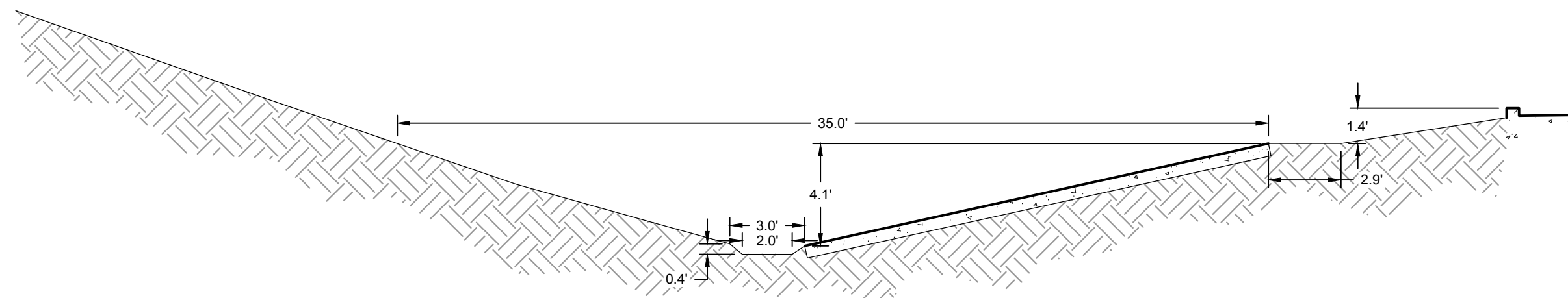
RESTRICTION #4  
PARKWAY PLAZA BRIDGE

FLOW



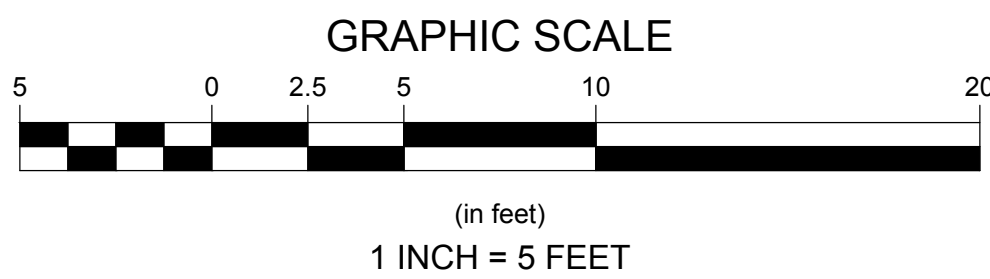
RESTRICTION #5  
ROUTE 16 ONRAMP BRIDGE

FLOW



RESTRICTION #6  
CONCRETE REVETMENT BEHIND HOME DEPOT

FLOW

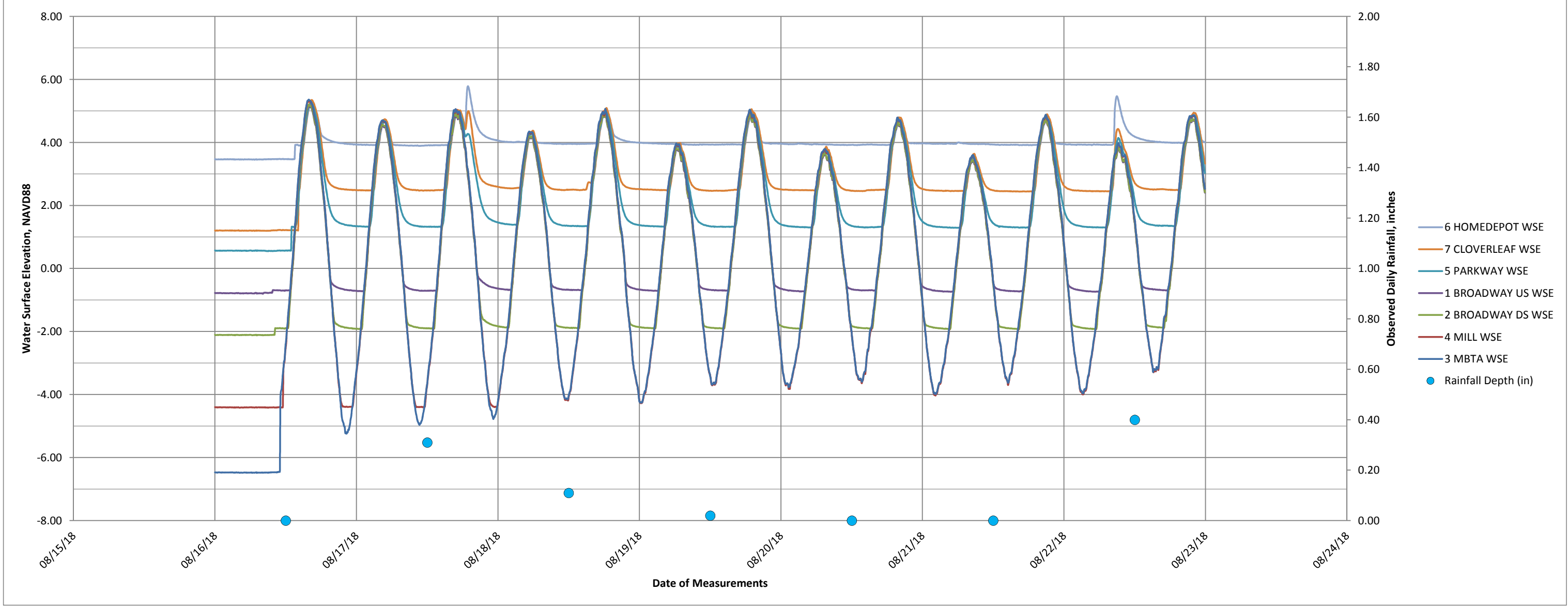


Survey Provided By: <b>Horsley Witten Group, Inc.</b> 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150 Dated: OCT 2018		Registration:	
Prepared For: <b>Mystic River Watershed Assoc.</b> 20 Academy Street, Ste. 306 Arlington, MA 02476 Phone: (781) 316-3438		Project Number: <b>18113</b>	
Plan Set: <b>MYSTIC RIVER RESTORATION PROJECT BOSTON, MASSACHUSETTS</b>		Sheet: <b>---- of 1</b>	
Plan Title: <b>RESTRICTION SECTIONS</b>		Sheet Number: <b>C ----</b>	
Horsley Witten Group, Inc. Sustainable Environmental Solutions www.horsleywitten.com 90 Route 6A Sandwich, MA 02563 508-833-6600 voice 508-833-3150 fax		Revisions	
Date: OCT 2018		By: App. Description	
Designed By: **		Checked By: NP	
Drawn By: UB		Rev:	

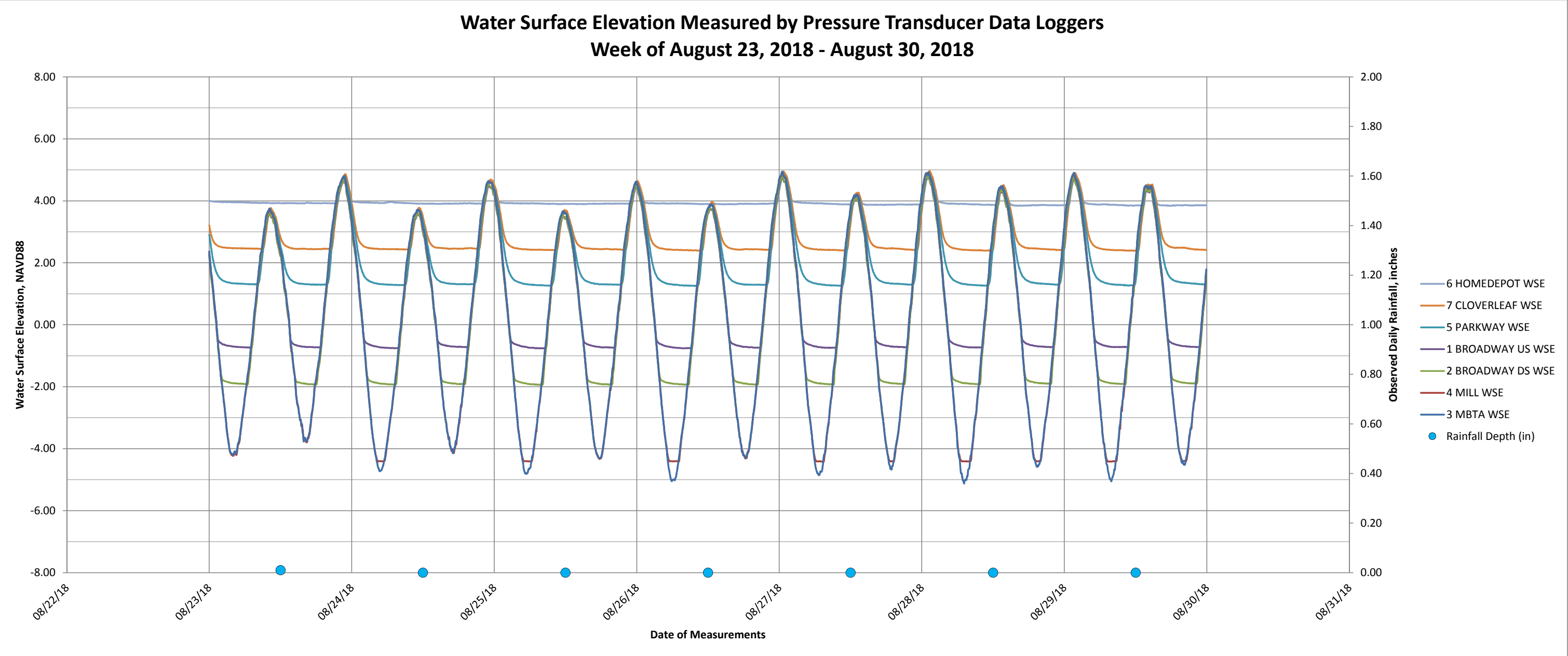
## **APPENDIX B:**

Tidal Logger Data

Water Surface Elevation Measured by Pressure Transducer Data Loggers  
Week of August 16, 2018 - August 23, 2018

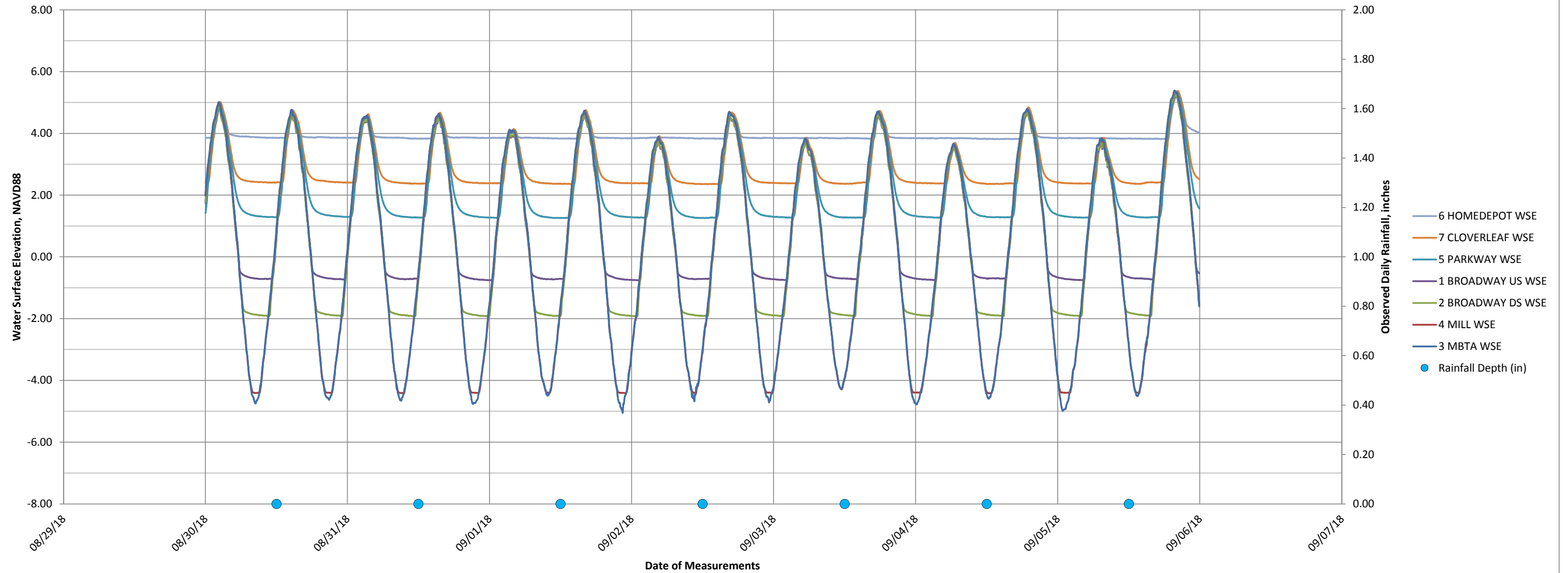


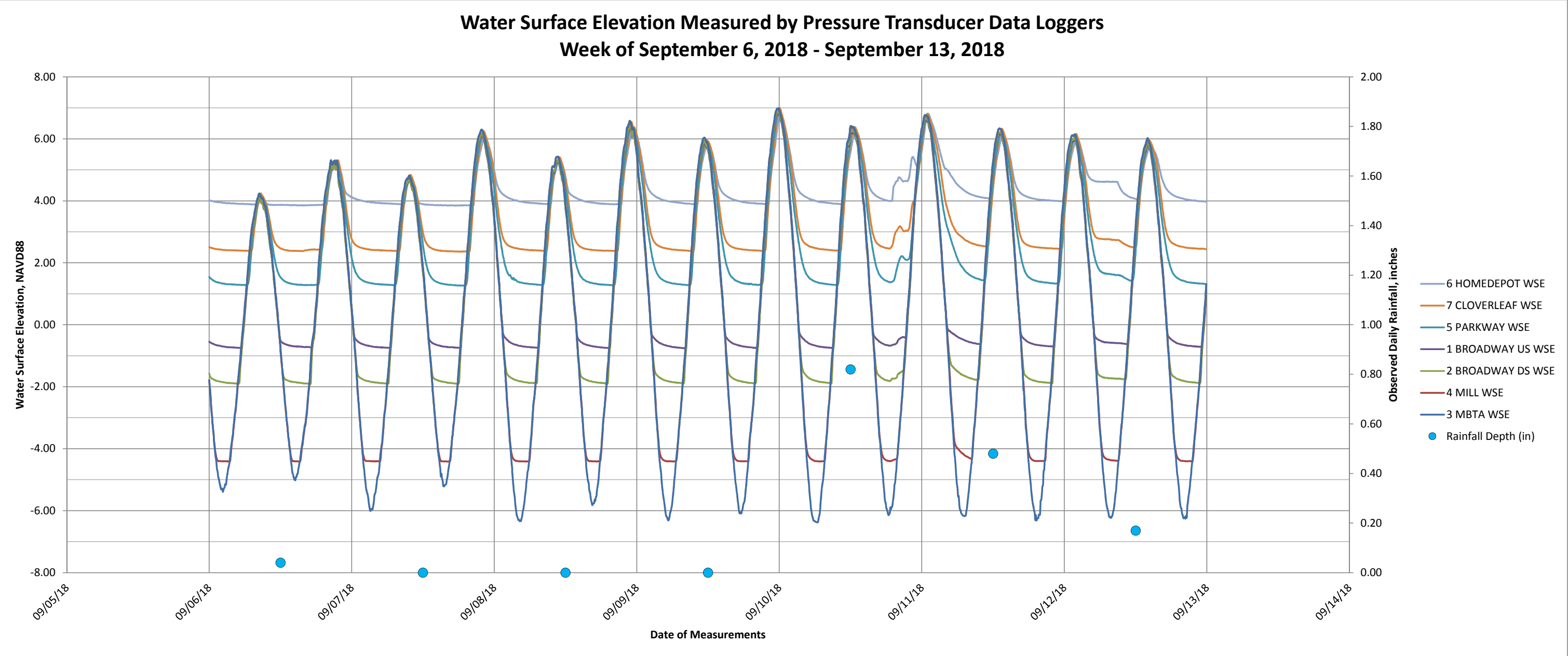




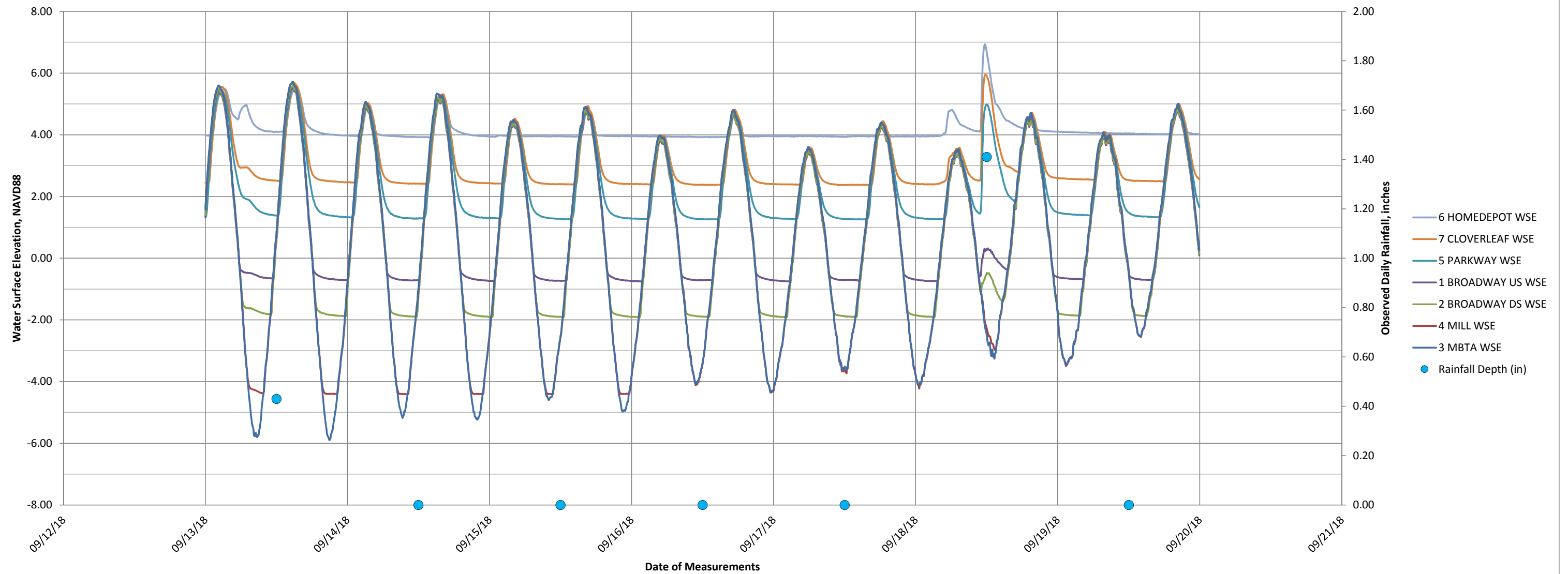
## Water Surface Elevation Measured by Pressure Transducer Data Loggers

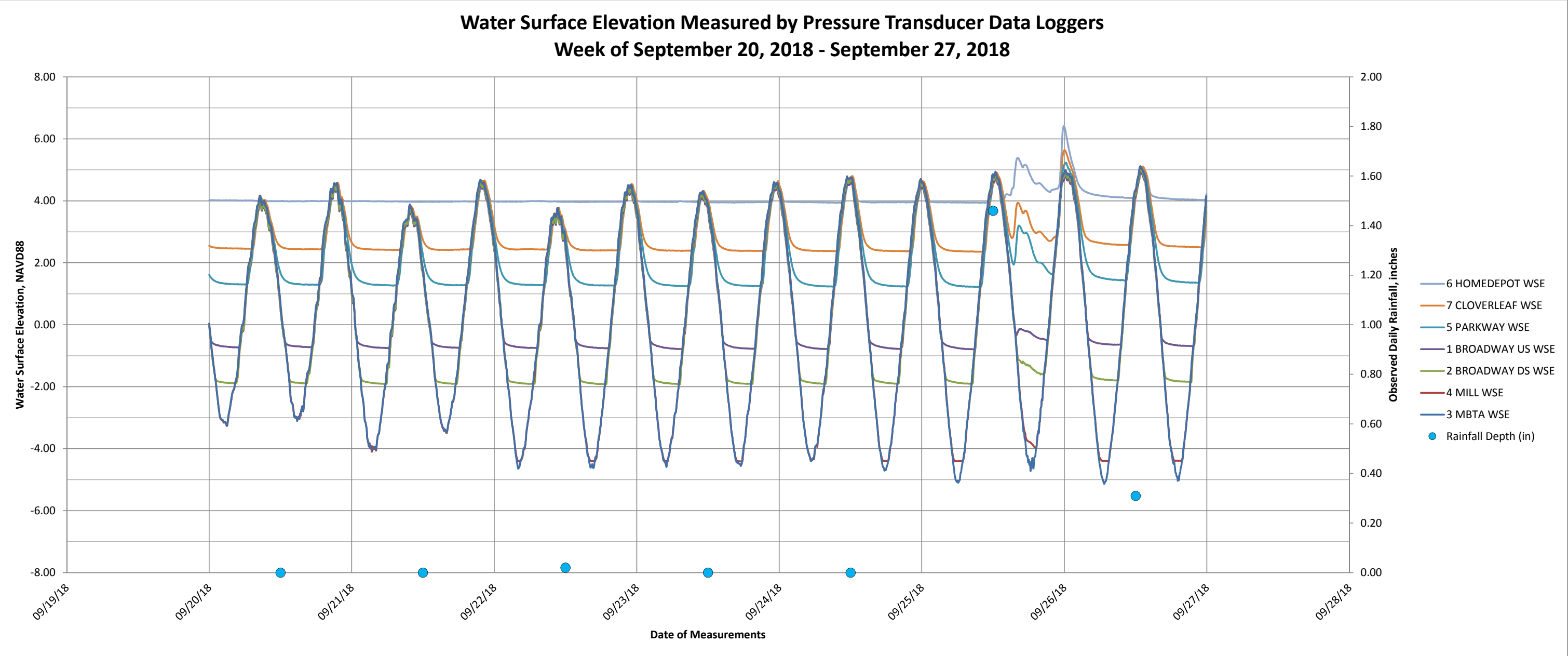
### Week of August 30, 2018 - September 6, 2018

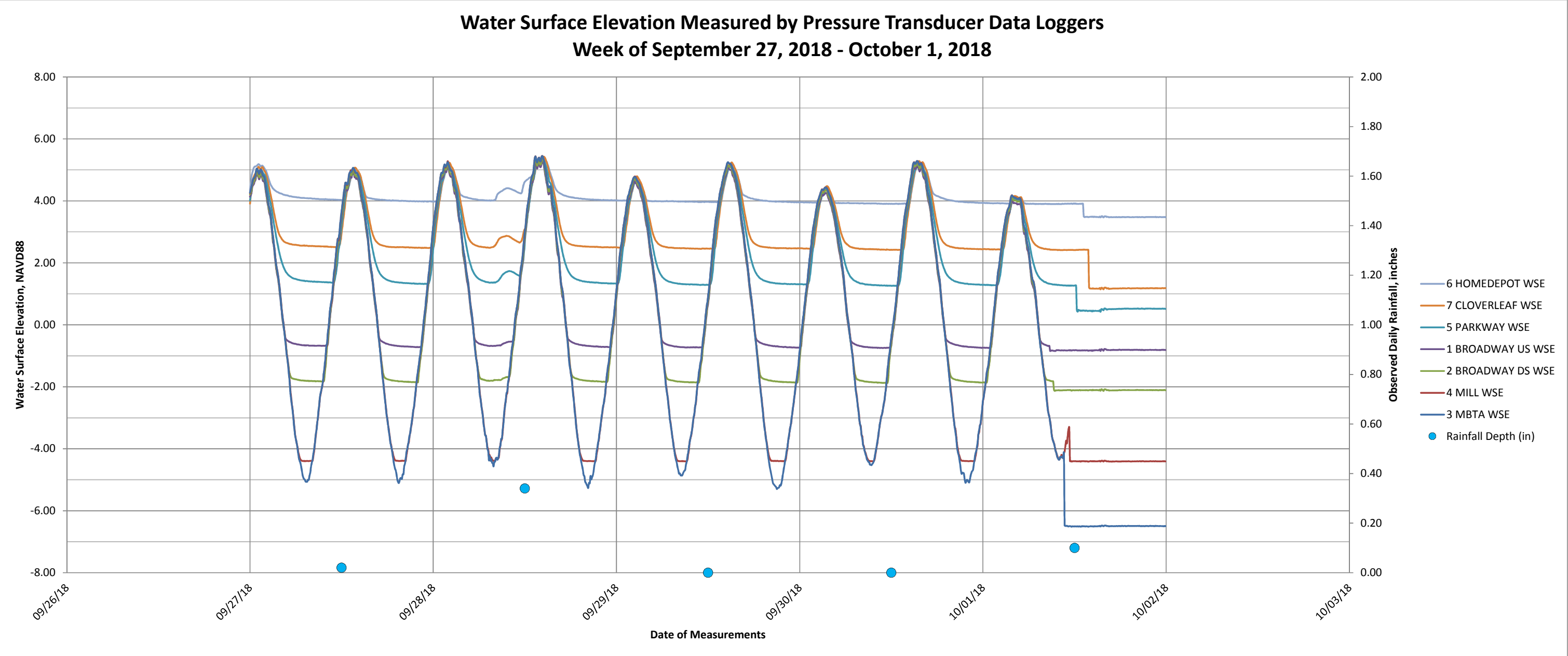




**Water Surface Elevation Measured by Pressure Transducer Data Loggers**  
**Week of September 13, 2018 - September 20, 2018**

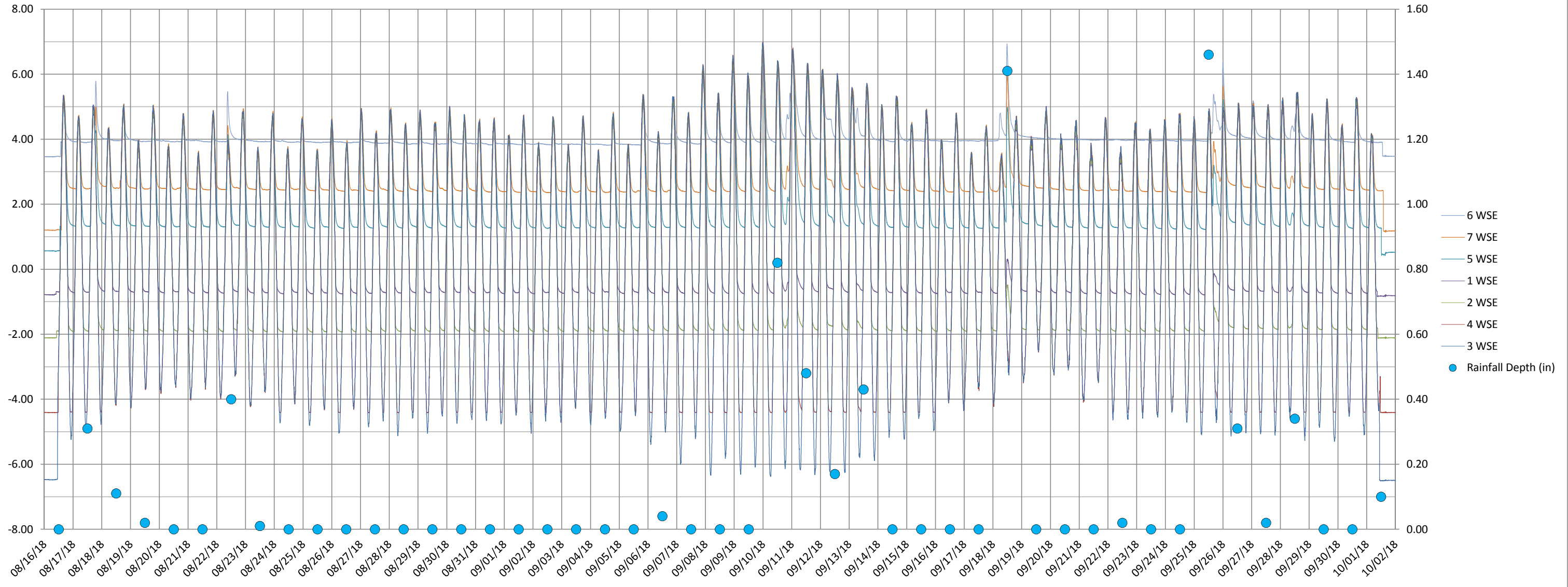








Water Surface Elevation Measured by Pressure Transducer Data Loggers  
September 16, 2018 - October 1, 2018



**APPENDIX C:**  
FIELD ASSESSMENT PHOTOS –  
OUTFALLS



**Photo 1:** Photo at Outfall 1



**Photo 2:** Photo of scour at Outfall 1





**Photo 3:** Photo of Outfall 2



**Photo 4:** Photo of Outfall 3



**Photo 5:** Photo of Outfall 3 looking towards Mill Creek





**Photo 6:** Photo of Outfall 4



**Photo 7:** Photo of concrete channel at Outfall 4





**Photo 8:** Photo of Outfall 5



**Photo 9:** Photo of Sediment in Outfall 5



**Photo 10:** Photo of Outfall 6



**Photo 11:** Photo at Outfall 6 looking downstream





**Photo 12:** Photo of Outfall 7



**Photo 13:** Photo of Outfall 7 looking downstream





**Photo 14:** Photo of Outfall 8



**Photo 15:** Photo of Outfall 8 looking downstream





**Photo 16:** Photo of Outfall 9 (collapsed headwall)



**Photo 17:** Photo looking upstream towards Outfall 9



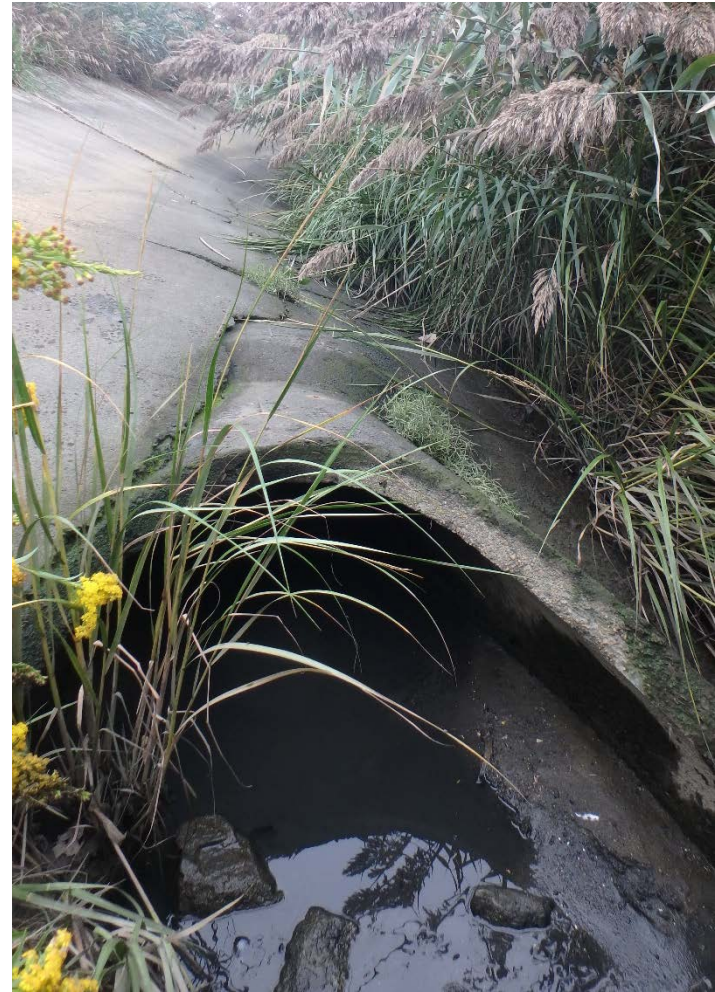


**Photo 18:** Photo of Outfall 10





**Photo 19:** Photo of Outfall 11



**Photo 20:** Photo of Outfall 12

## **APPENDIX D:**















### **Basemaps for Stormwater Assessments**

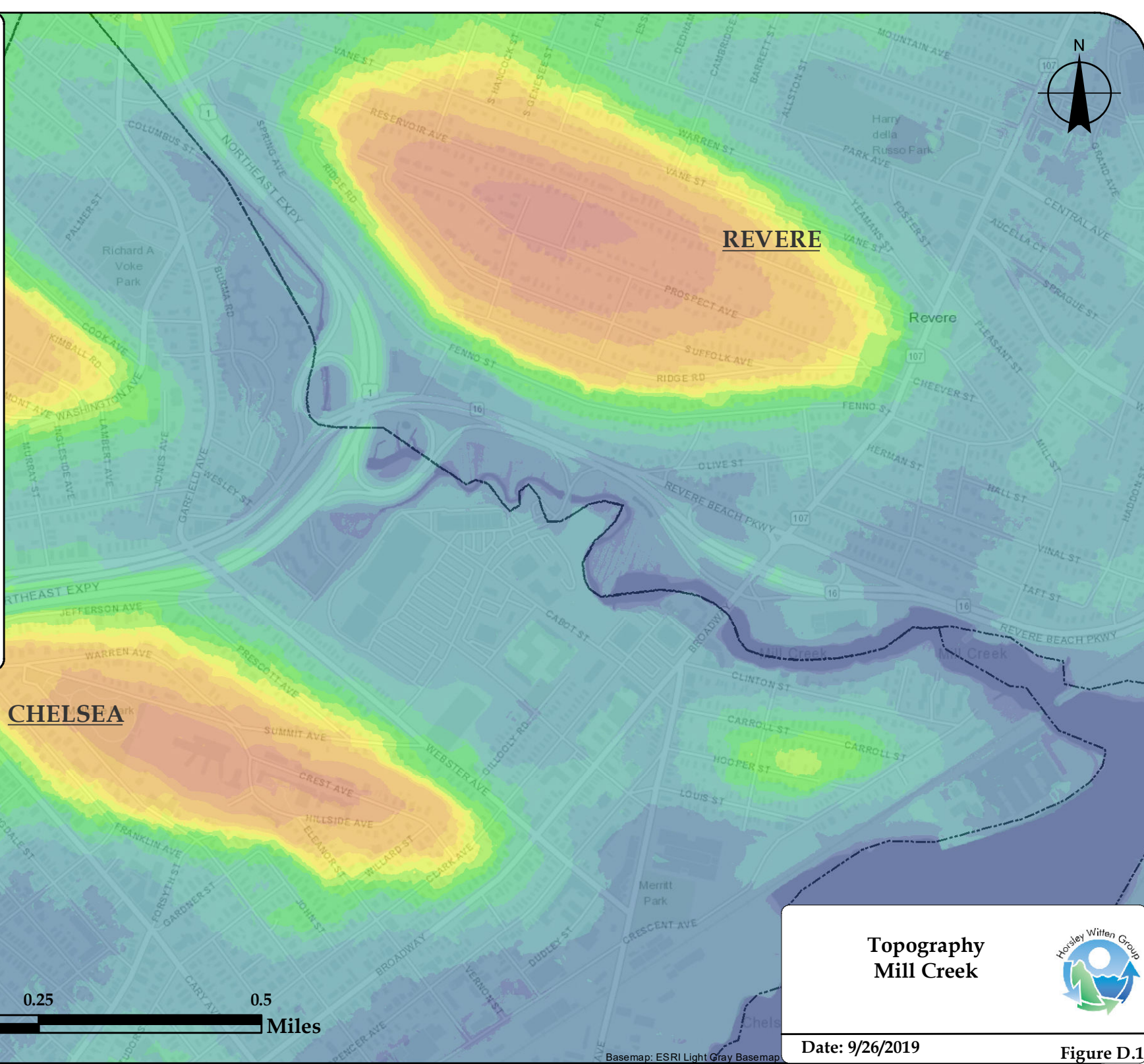


# Legend

 Town Boundaries

## Elevation (ft)

-  0 - 5
-  5 - 10
-  10 - 20
-  20 - 30
-  30 - 40
-  40 - 50
-  50 - 60
-  60 - 70
-  70 - 80
-  80 - 90
-  90 - 100
-  100 - 125
-  125 - 150
-  150 - 175
-  175 - 200



Topography  
Mill Creek



Date: 9/26/2019

Figure D.1

Basemap: ESRI Light Gray Basemap



# Legend

 Town Boundaries

## Land Use (2005)

 Commercial/Institutional/Transitional

 Industrial

 Nature/Open/Recreation

 Residential

 Transportation



**REVERE**

**CHELSEA**

8



**Stormwater  
Priority Subcatchments &  
Retrofit Assessments in  
Mill Creek**




Date: 9/27/2019

Figure D.2






Basemap: ESRI World Imagery (Clarity)

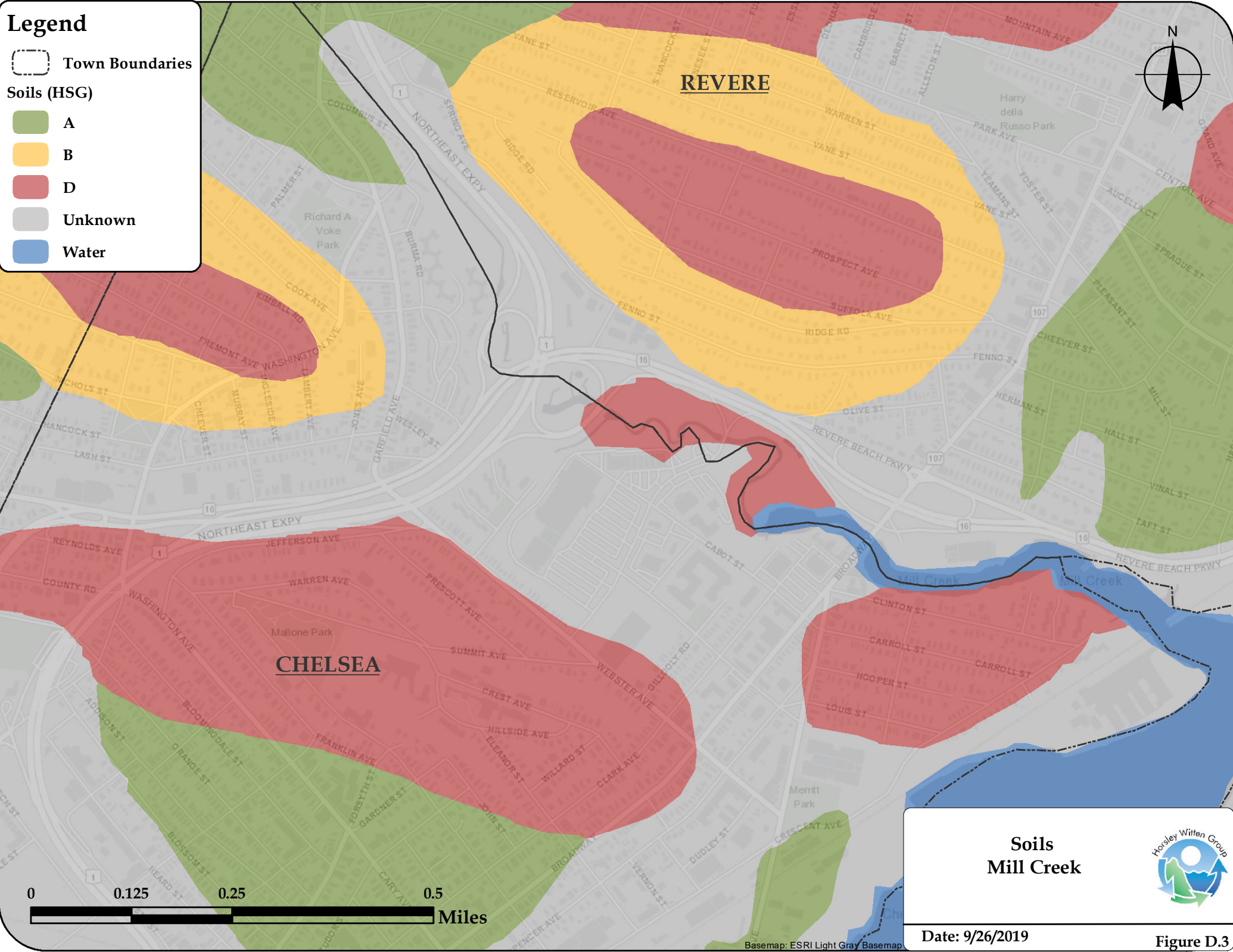


**Legend**

 Town Boundaries

**Soils (HSG)**

-  A
-  B
-  D
-  Unknown
-  Water




**CHELSEA**

**REVERE**



**Soils  
Mill Creek**



Date: 9/26/2019

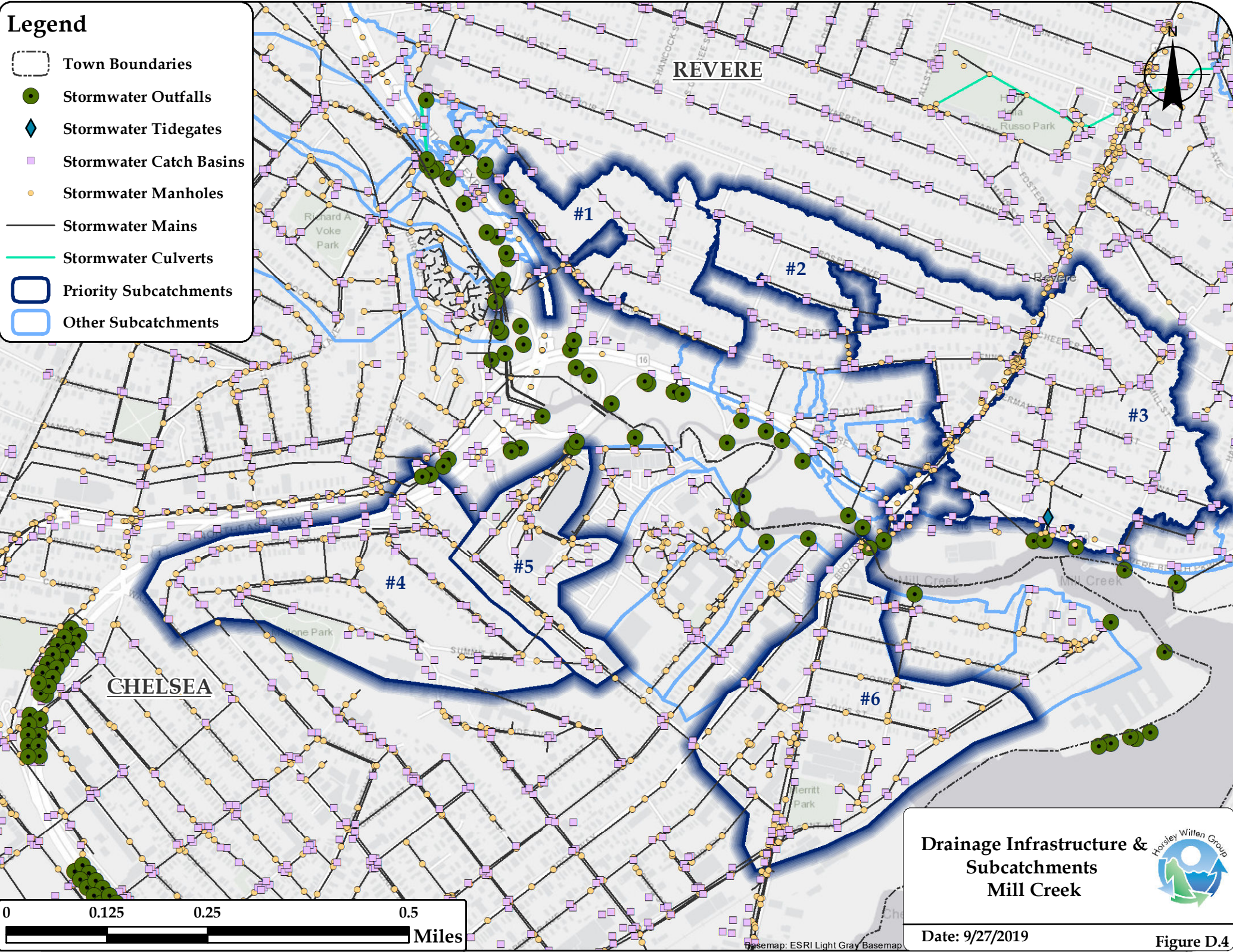
Figure D.3

Basemap: ESRI Light Gray Basemap



# Legend

- Town Boundaries
- Stormwater Outfalls
- Stormwater Tidegates
- Stormwater Catch Basins
- Stormwater Manholes
- Stormwater Mains
- Stormwater Culverts
- Priority Subcatchments
- Other Subcatchments



Drainage Infrastructure &  
Subcatchments  
Mill Creek



Date: 9/27/2019






Figure D.4

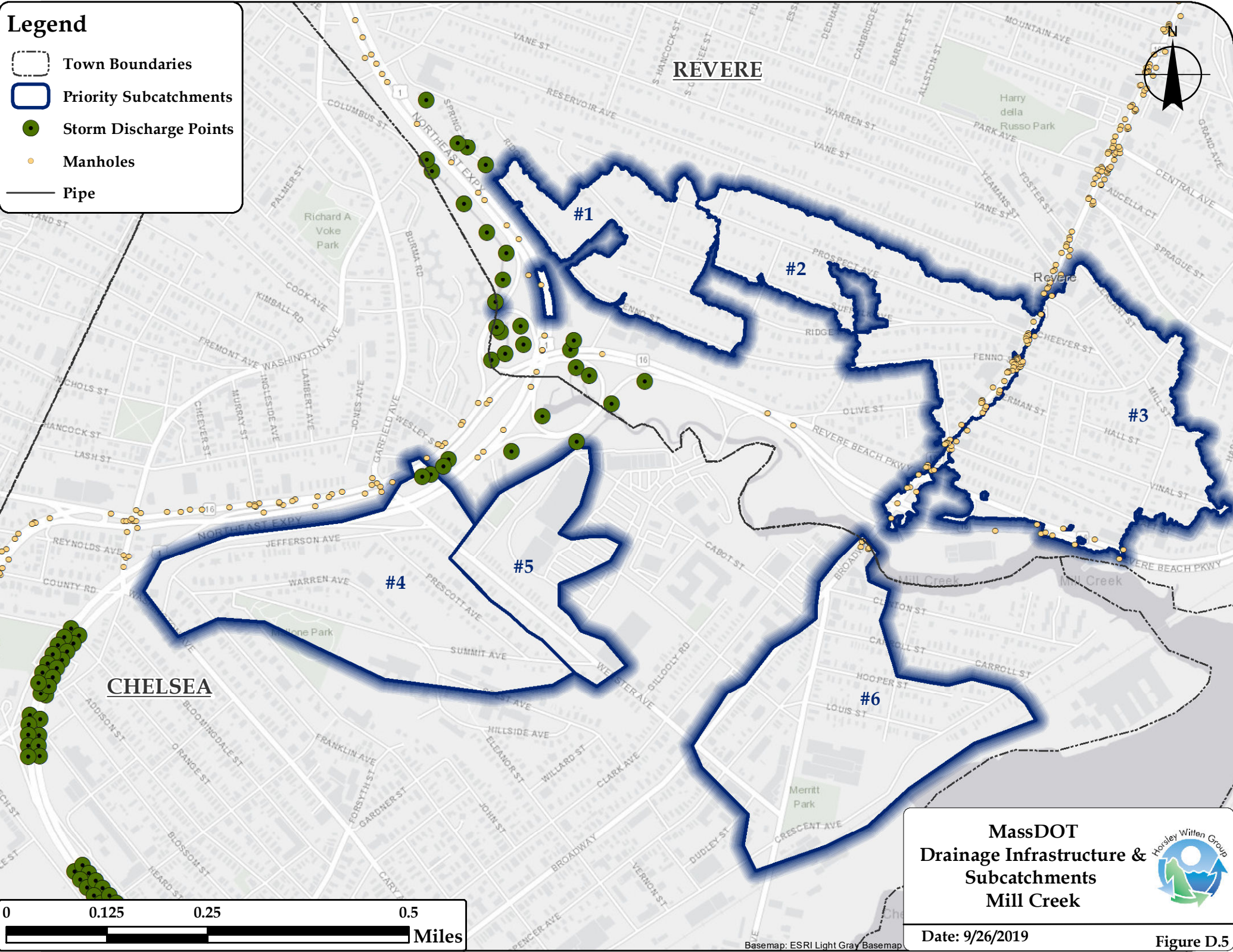


Basemap: ESRI Light Gray Basemap



# Legend

-  Town Boundaries
-  Priority Subcatchments
-  Storm Discharge Points
-  Manholes
-  Pipe

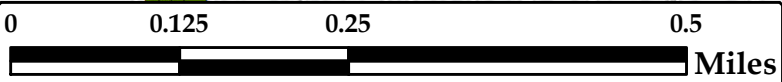


MassDOT  
Drainage Infrastructure &  
Subcatchments  
Mill Creek



Date: 9/26/2019

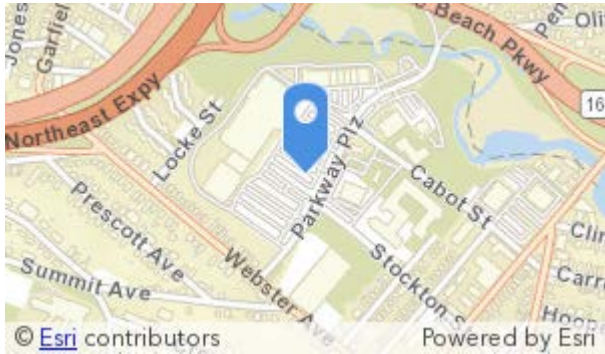

Figure D.5



Basemap: ESRI Light Gray Basemap

## **APPENDIX E:**

### Stormwater Retrofit Assessment Reports

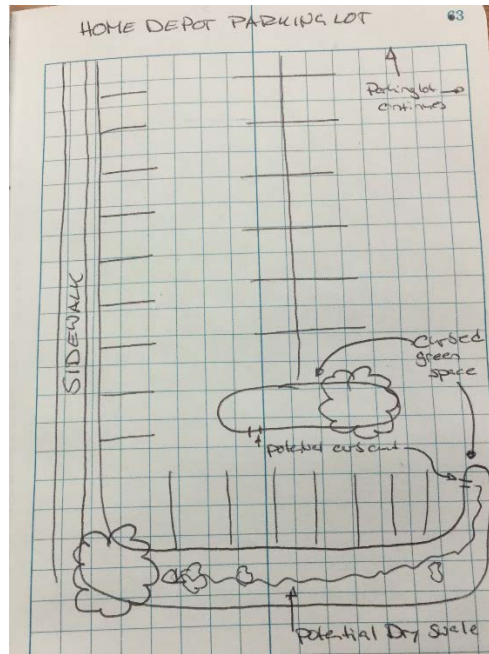
Name: Home Depot Parking Lot		Priority Subshed # 5
<b>Site Location:</b> 		<b>Site Description:</b> Large parking lot at shopping plaza; raised landscape areas could be used for BMP; possibly reduce road and drive lane width to increase space for BMPs. Potential for larger subsurface BMP.
		<b>Ownership:</b> Private
		<b>Primary Land Use:</b> Parking Lot , Commercial
		<b>Primary Pollutants:</b> Oil/Gas (sheen)
<b>Sidewalk Width:</b> <5'	<b>Road Width:</b> 25'	<b>Parking Lot Dimensions:</b> 17'x8', >100 spaces
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Ponding in parking lot		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Dry Swale		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 08:43

**Assessed by:** JR, MP



**SITE SKETCH**



**Sketch Caption:** Potential surface BMP

**ADDITIONAL PHOTO(S)**



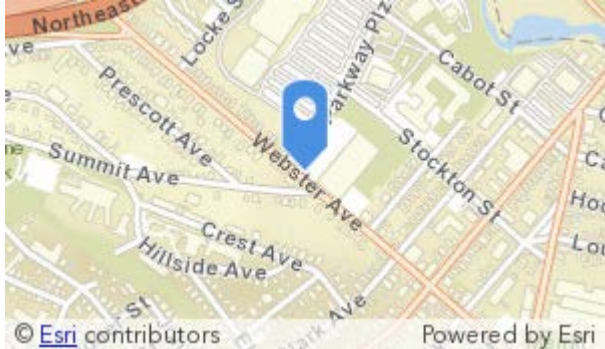

**Additional Photo Caption:**  
Sidewalk next to parking lot



**Additional Photo Caption:**  
Large driving lanes in parking lot

**Date Assessed:** 11/19/2018 08:43

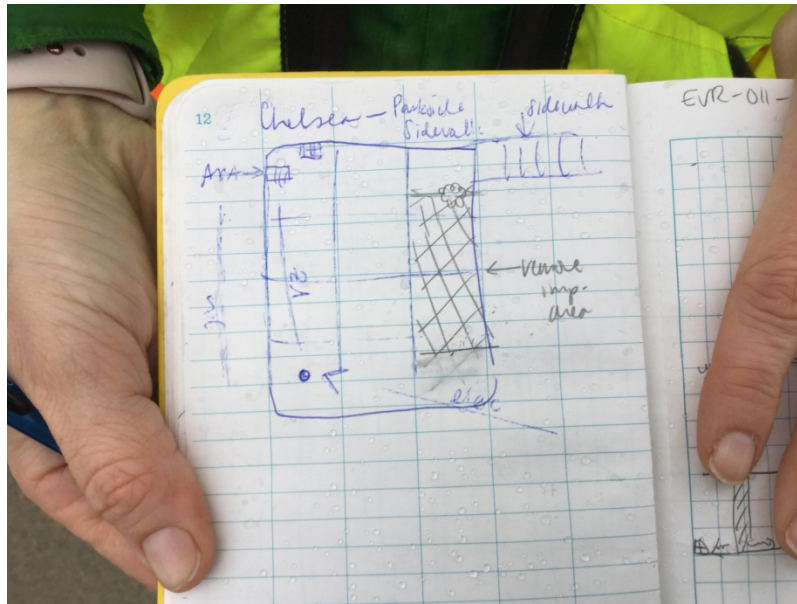
**Assessed by:** JR, MP

<b>Name: Webster Avenue at Parkway Plaza</b>		<b>Priority Subshed # 5</b>
<b>Site Location:</b> 		<b>Site Description:</b> Large sidewalk at the entrance to the parking lot bordering grassed open space; CB on one side. Overhead utilities and underground utilities (communication, electricity) present. Remove impervious area, if possible.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves , Debris
<b>Sidewalk Width:</b> >10'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Large sidewalk with CB on one side		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Remove Impervious Surface		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Underground Utilities , Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 09:01

**Assessed by:** JR, MP

SITE SKETCH



**Sketch Caption:** Remove 5' width of sidewalk area

ADDITIONAL PHOTO(S)



**Additional Photo Caption:**  
Overhead and underground utilities

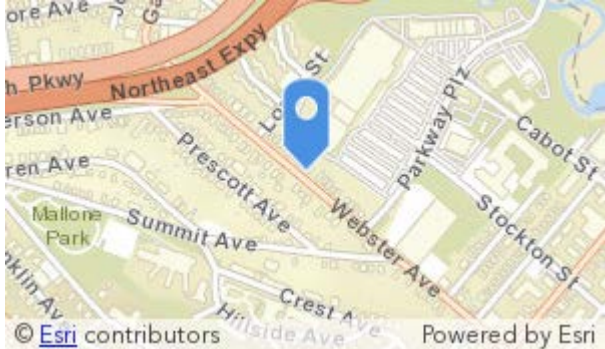



**Additional Photo Caption:**  
Bordering open space and parking lot

**Date Assessed:** 11/19/2018 09:01

**Assessed by:** JR, MP

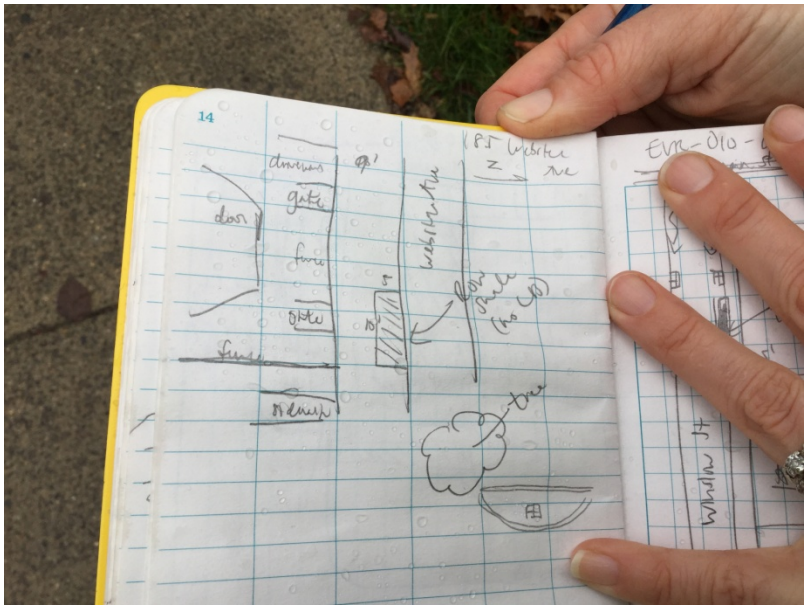


Name: 185 Webster Avenue		Priority Subshed # 5
<b>Site Location:</b> 		<b>Site Description:</b> Large sidewalk in residential area; area avoids utilities (gas) and entry way conflict; overhead utilities present; no CB close. Isolated opportunities along other sections of Webster Avenue.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves , Debris
<b>Sidewalk Width:</b> 9'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Space for ROW swale between entrance and gas line		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> ROW Swale (without tree)		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 09:12

Assessed by: JR, MP

SITE SKETCH



**Sketch Caption:** Location of potential CB

ADDITIONAL PHOTO(S)

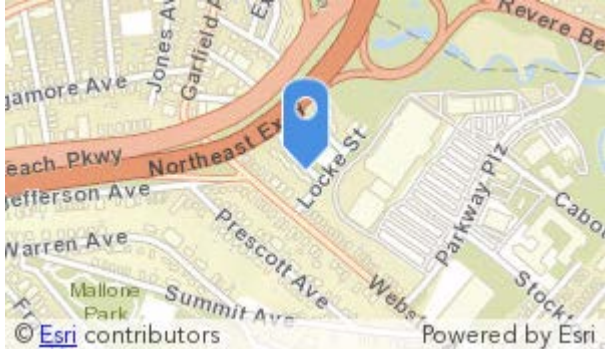



**Additional Photo Caption:**  
Leaves and ponding on street; no CB nearby

**Additional Photo Caption:**

**Date Assessed:** 11/19/2018 09:12

**Assessed by:** JR, MP

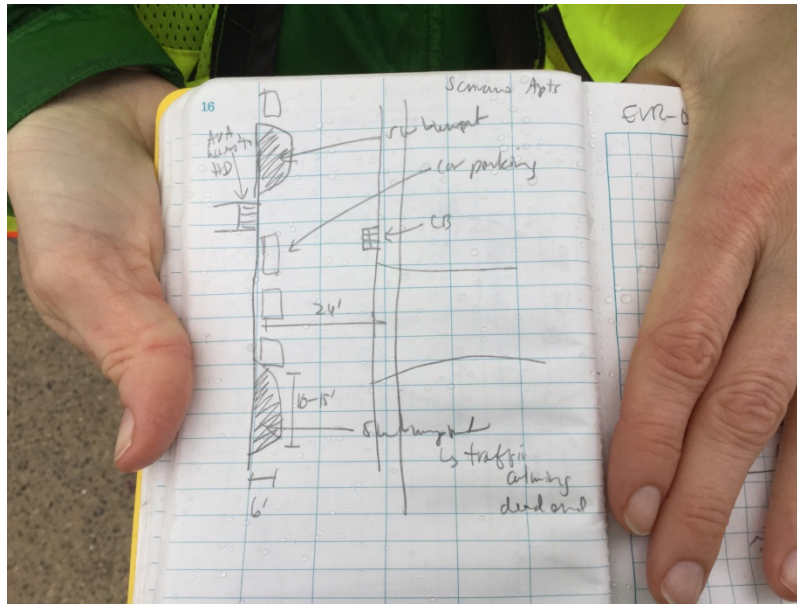
Name: Scrivano Apartments Housing		Priority Subshed # 5
<b>Site Location:</b> 		<b>Site Description:</b> Low traffic street at entrance to housing development; one CB for the entire street; ponding and debris on side of the road; no underground utility conflict observed. Bumpout possible at low point in street or anywhere along end of street.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Oil/Gas (sheen) , Debris , Leaves , Trash
<b>Sidewalk Width:</b> 9'	<b>Road Width:</b> 24'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Install stormwater bumpout on opposite side of CB		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Bumpout		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 09:24

Assessed by: JR, MP



SITE SKETCH



**Sketch Caption:** Two possible bumpout locations

ADDITIONAL PHOTO(S)



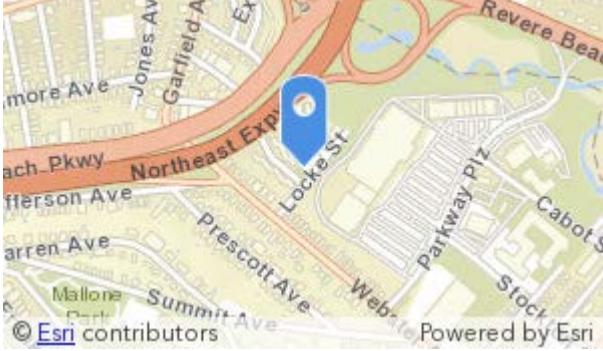

**Additional Photo Caption:**  
Or install bumpout at end of road



**Additional Photo Caption:**  
Low point at entrance to housing development

**Date Assessed:** 11/19/2018 09:24

**Assessed by:** JR, MP

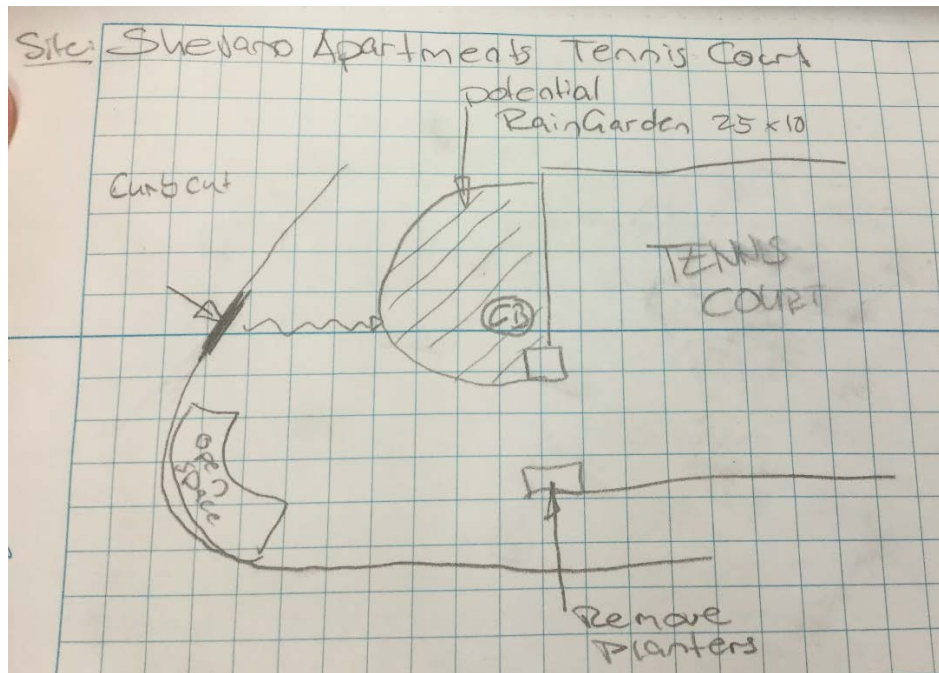
Name: Scrivano Apartments Tennis Court		Priority Subshed # 5
<b>Site Location:</b> 		<b>Site Description:</b> Open space and tennis court; area draining to catch basin in sidewalk area. Replace impervious with bio retention area to add green space.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Park/Playground
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> >10'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Tennis court and open space		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Bioretention		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 09:32

Assessed by: JR, MP



SITE SKETCH



Sketch Caption:

ADDITIONAL PHOTO(S)



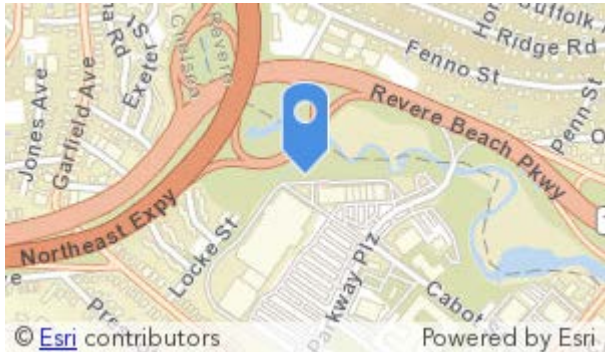

**Additional Photo Caption:**  
Open space/ sidewalk area



**Additional Photo Caption:**  
Raised planters could be replaced

Date Assessed: 11/19/2018 09:32

Assessed by: JR, MP

Name: Mill Creek at Home Depot		Priority Subshed # 5
<b>Site Location:</b> 		<b>Site Description:</b> Large open space between Mill Creek and Home Depot parking lot at bottom of watershed; CB right next to open space; minimal overhead utilities (communications). Trees are set back so canopy is avoidable. Bioretention area recommended in low spot.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Open Space/Wetland
		<b>Primary Pollutants:</b> Leaves , Debris , Trash
<b>Sidewalk Width:</b> <5'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> CB at low point next to open space		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Bioretention		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Street Trees/Canopy		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping , Trash Management		

Date Assessed: 11/19/2018 09:50

Assessed by: JR, MP



SITE SKETCH



**Sketch Caption:** Install bioretention in open space

ADDITIONAL PHOTO(S)

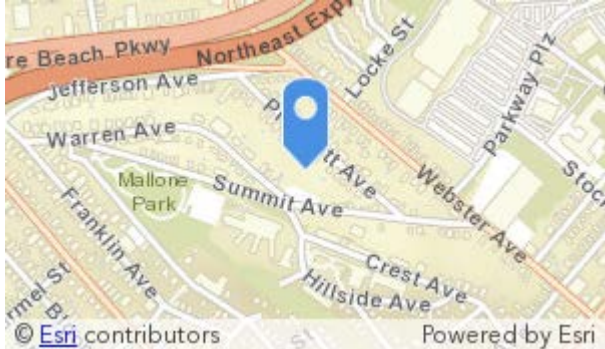



**Additional Photo Caption:**  
CB takes surface runoff from three sides

**Additional Photo Caption:**

Date Assessed: 11/19/2018 09:50

Assessed by: JR, MP

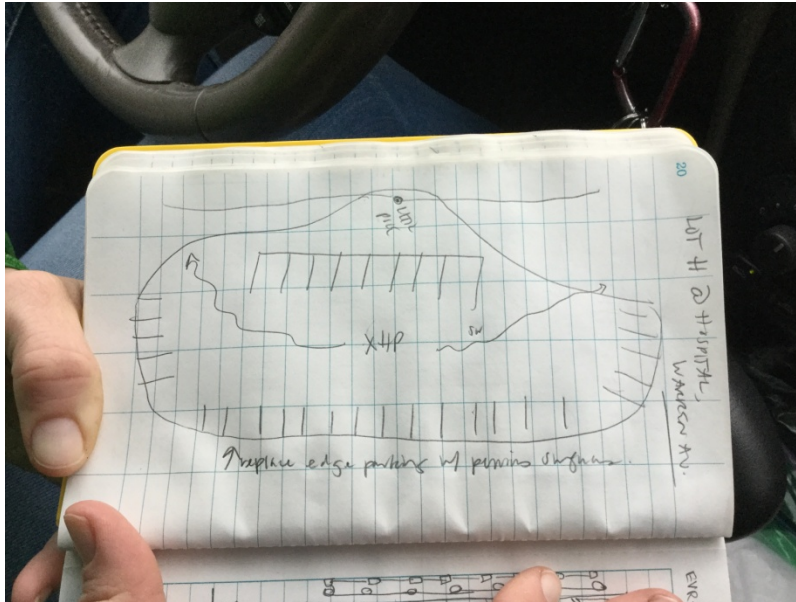
Name: Quigley Hospital Overflow Parking		Priority Subshed # 4
<b>Site Location:</b> 		<b>Site Description:</b> Overflow parking for hospital mostly empty at site visit; large impervious area on top of the hill next to steep slopes; no CBs observed. Water appears to be running overland onto slope; Potentially replace some of the impervious area with pavers or pervious area.
		<b>Ownership:</b> State owned
		<b>Primary Land Use:</b> Parking Lot
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> N/A	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> 9'x17', 35 spaces
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Large parking lot (overflow parking)		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Pervious Surface		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Steep slopes		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 10:10

Assessed by: JR, MP



SITE SKETCH



**Sketch Caption:** Remove impervious area or replace with pavers

ADDITIONAL PHOTO(S)



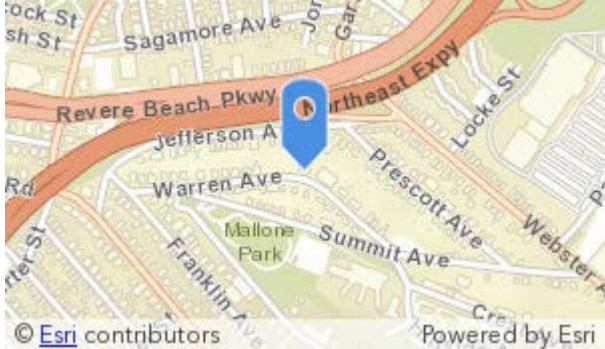

**Additional Photo Caption:**  
Large access road to hospital



**Additional Photo Caption:**  
Runoff discharges to steep slope

**Date Assessed:** 11/19/2018 10:10

**Assessed by:** JR, MP

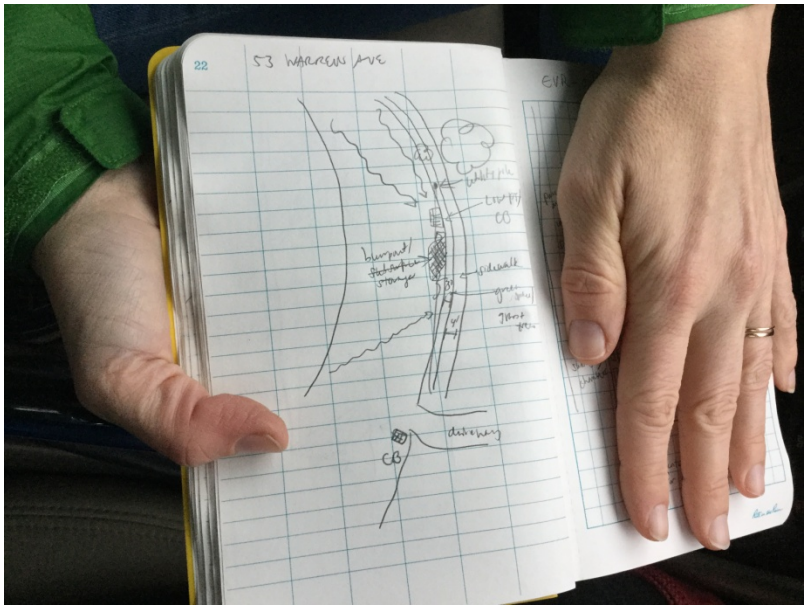
<b>Name: 53 Warren Avenue</b>		<b>Priority Subshed # 4</b>
<b>Site Location:</b> 		<b>Site Description:</b> CB in residential street low spot is taking runoff from both sides of Warren Avenue. Leaf litter is clogging CB, but is being partially removed by residents. Location is the only flat area on Warren Avenue. Bumpout or subsurface chambers possible.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves , Trash
<b>Sidewalk Width:</b> <5'	<b>Road Width:</b> 30'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Leaf litter in CB		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Bumpout/Subsurface Chamber		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Steep slopes , Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 10:22

**Assessed by:** JR, MP



SITE SKETCH



Sketch Caption: Bumpout at low point of Warren Avenue

ADDITIONAL PHOTO(S)

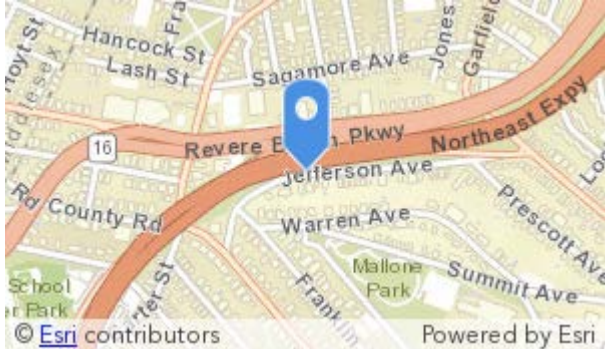



Additional Photo Caption:  
Steep slopes on Warren Avenue

Additional Photo Caption:

Date Assessed: 11/19/2018 10:22

Assessed by: JR, MP

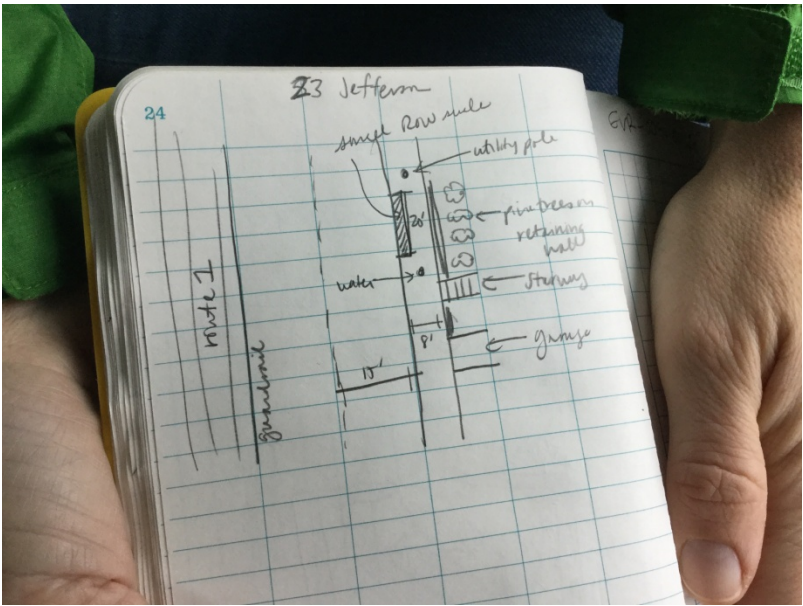
Name: 23 Jefferson Avenue		Priority Subshed # 4
<b>Site Location:</b> 		<b>Site Description:</b> Flat area on residential road; 30' space between entrances and gas lines; under overhead utilities. Opportunity for a ROW swale or bumpout if parking is removed. Other opportunities on Jefferson Avenue.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Trash , Leaves
<b>Sidewalk Width:</b> 8'	<b>Road Width:</b> 30'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> 30' between entrances and utilities		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> ROW Swale (without tree)		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 10:36

**Assessed by:** JR, MP



SITE SKETCH





Sketch Caption: ROW Swale in sidewalk

ADDITIONAL PHOTO(S)



Additional Photo Caption:  
Steep slopes on Jefferson Avenue

Additional Photo Caption:

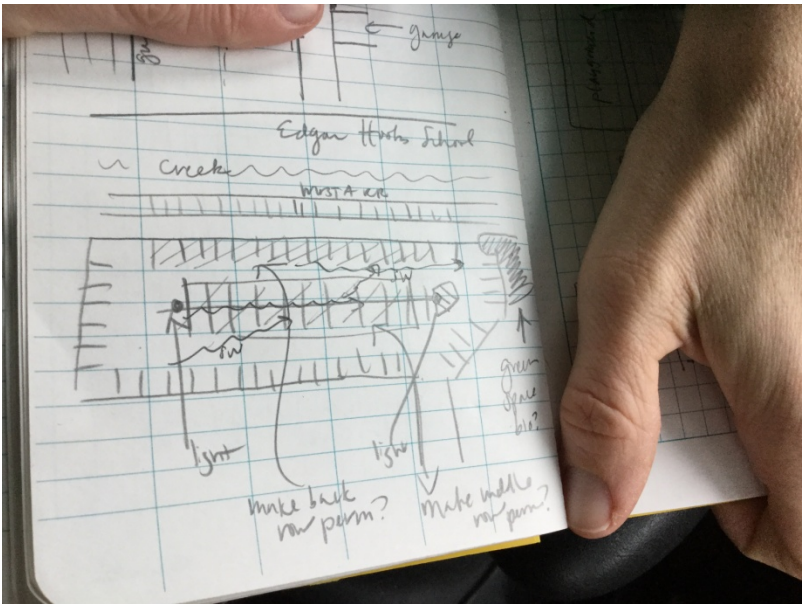
<b>Name: Edgar A Hooks Elementary School</b>		<b>Priority Subshed # 6</b>
<b>Site Location:</b> 		<b>Site Description:</b> Highly used parking lot used by elementary school parking; abuts MBTA railroad. Replace impervious area with pavers and regrade parking lot to avoid run on; potentially create bioretention area in back to catch more runoff (need to berm it in the back to avoid flow to MBTA).  <b>Ownership:</b> Public (City-owned)  <b>Primary Land Use:</b> Parking Lot  <b>Primary Pollutants:</b> Oil/Gas (sheen)
<b>Sidewalk Width:</b> N/A	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> 100 spaces, 8'x12'
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Resurface parking spaces/ build bioretention area		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Remove Impervious Surface/Bioretention		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 10:48

Assessed by: JR, MP



SITE SKETCH



Sketch Caption: Remove impervious area

ADDITIONAL PHOTO(S)





Additional Photo Caption:  
Heavily used parking lot



Additional Photo Caption:  
Parking space outlay

Date Assessed: 11/19/2018 10:48

Assessed by: JR, MP

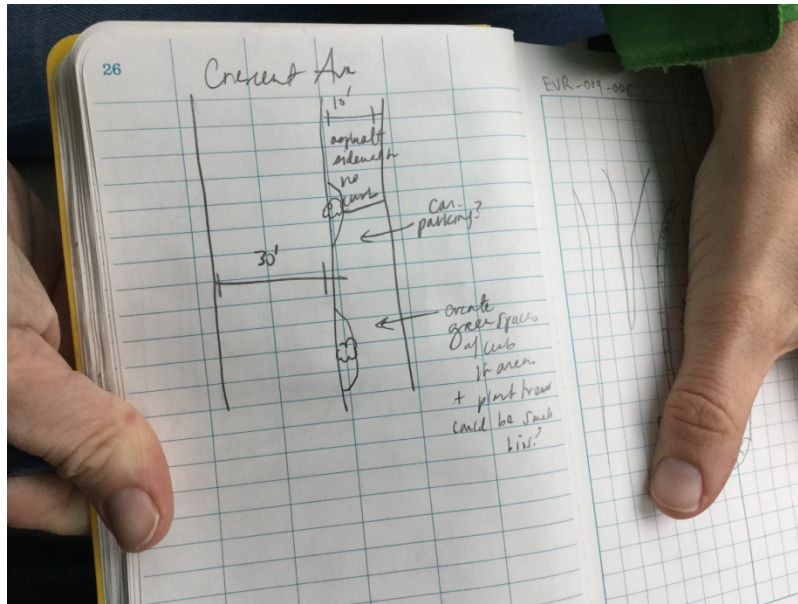
<b>Name: 379 Crescent Avenue</b>		<b>Priority Subshed # 6</b>
<b>Site Location:</b> 		<b>Site Description:</b> Very large impervious area through combined road width and uncurbed sidewalks that can be parked on. Residential area with street parking on both sides, but many houses have more driveway parking. Create pervious area by installing green space and curb street.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 10'	<b>Road Width:</b> 30'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> No curbs on street		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Remove Impervious Surface		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 11:01

**Assessed by:** JR, MP



SITE SKETCH



**Sketch Caption:** Create open space through curbing

ADDITIONAL PHOTO(S)





**Additional Photo Caption:**  
Minimal utilities observed



**Additional Photo Caption:**  
Cars parked on slanted 'sidewalk'

**Date Assessed:** 11/19/2018 11:01

**Assessed by:** JR, MP

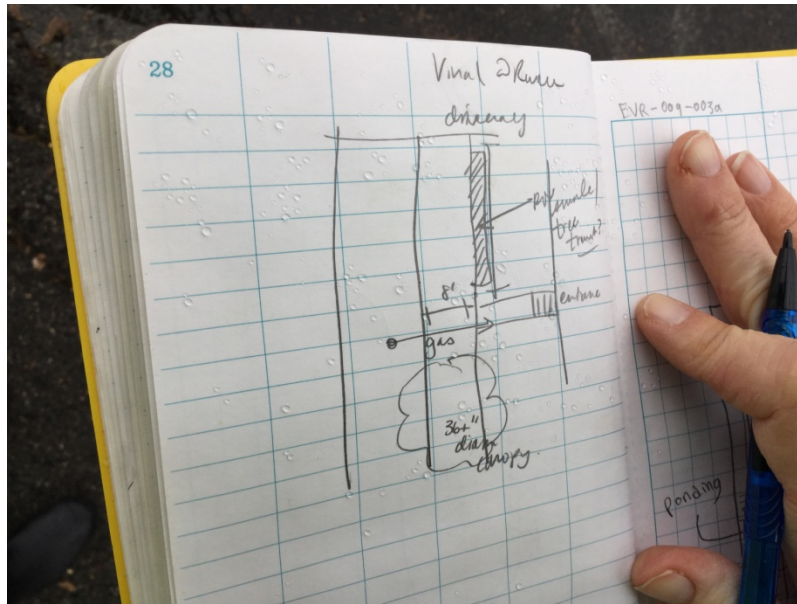
Name: 125 Vinal Street		Priority Subshed # 3
<b>Site Location:</b> 		<b>Site Description:</b> 30' long area in residential sidewalk between driveway, gas line and overhead utilities. Good location for tree trench at the bottom of Vinal Street (very broad one-way).
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 8'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> 30' stretch between gas line and drive way		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Tree Trench		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 12:30

Assessed by: JR, MP



SITE SKETCH



**Sketch Caption:** Tree trench location

ADDITIONAL PHOTO(S)





**Additional Photo Caption:**  
Overhead utilities over gas line



**Additional Photo Caption:**  
Other side of Vinal Street is much narrower

**Date Assessed:** 11/19/2018 12:30

**Assessed by:** JR, MP

Name: 70 Vinal Street		Priority Subshed # 3
<b>Site Location:</b> 		<b>Site Description:</b> Residential one-way with parking on one side. Narrow sidewalk (5' wide) plus 2' green strip. Potentially 2-3' of green space can be used for bumpout and for traffic calming for a tree trench.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 5'	<b>Road Width:</b> 24'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> 30' area for tree trenches 80 Vinal Street		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Tree Trench		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities , Underground Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 12:43

**Assessed by:** JR, MP





[illegible]

### ADDITIONAL PHOTO(S)



**Assessed by:** JR, MP

<b>Name: 44 Beach Street</b>		<b>Priority Subshed # 3</b>
<b>Site Location:</b> 		<b>Site Description:</b> Empty tree pit could be transformed into 5'x12' tree trench between gas line and drive way; water access line would need to be dealt with; overhead utilities demand low growth tree; no CB.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 9'	<b>Road Width:</b> N/A	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Empty tree pit		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Tree Trench		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities , Underground Utilities , Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 12:54

Assessed by: JR, MP



Buch # 44

CB

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bonnung

Rauw

### ADDITIONAL PHOTO(S)



**Assessed by:** JR, MP

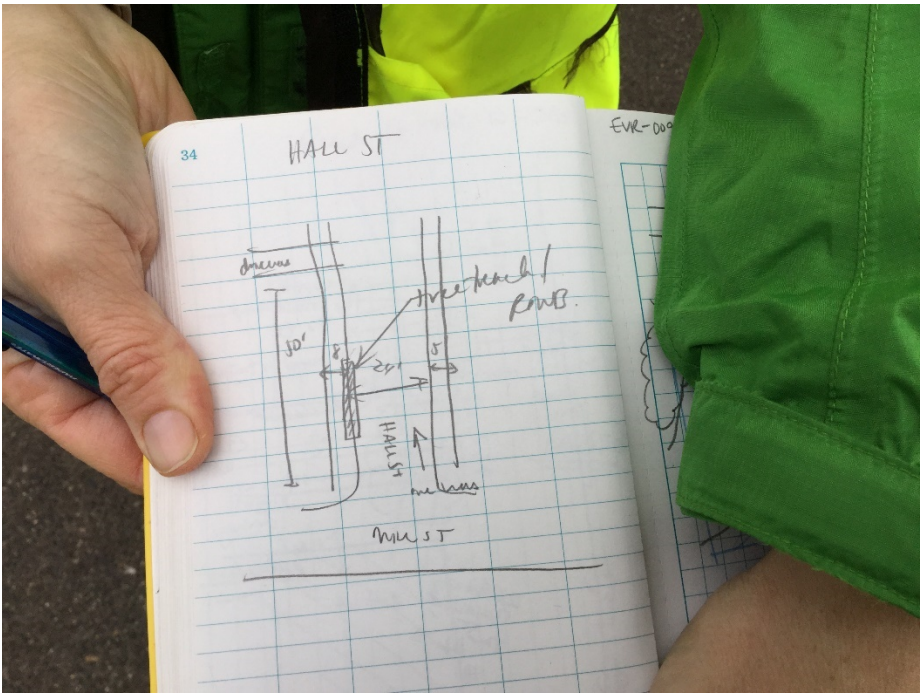
Name: Hall Street		Priority Subshed # 3
<b>Site Location:</b> 		<b>Site Description:</b> Large stretch of impervious area (8' sidewalk next to a 24' one-way). No observable utilities. Opportunity for tree trenches on both sides of street, better on southern side.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 8'	<b>Road Width:</b> 24'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Long stretch without utilities		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Tree Trench		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 13:09

**Assessed by:** JR, MP



SITE SKETCH



Sketch Caption: Tree trench location

ADDITIONAL PHOTO(S)

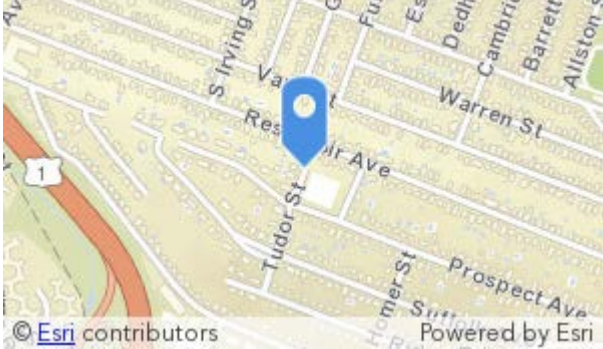



Additional Photo Caption:  
24' wide one-way

Additional Photo Caption:

Date Assessed: 11/19/2018 13:09

Assessed by: JR, MP

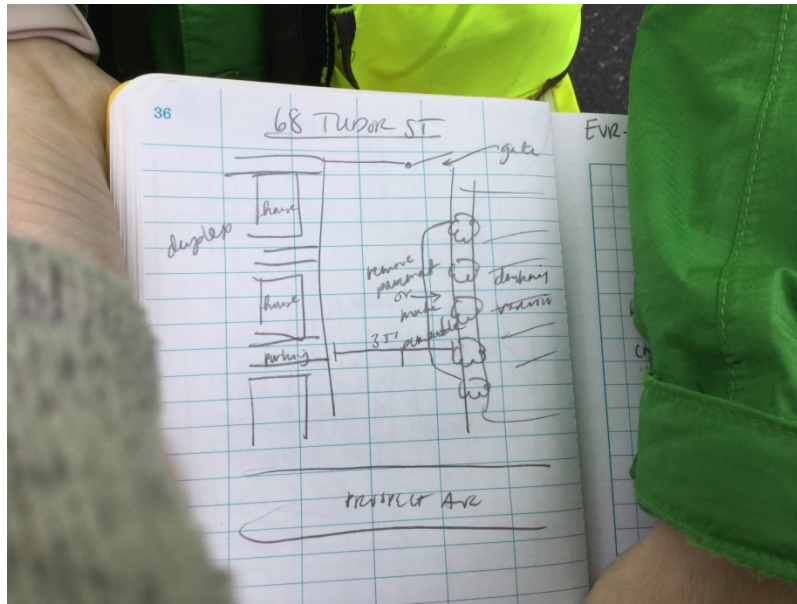
Name: 68 Tudor Street		Priority Subshed # 1
<b>Site Location:</b> 		<b>Site Description:</b> Dead end of Tudor Street is extremely wide, at top of the hill. Parking on one side. Adjacent to a reservoir. Need to maintain entrance ways on other side, but can remove impervious area or use pavers.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> N/A	<b>Road Width:</b> 35'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Large unused impervious area		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Remove Impervious Surface		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities , Entrances/Driveway		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 13:43

Assessed by: JR, MP



SITE SKETCH



**Sketch Caption:** Remove impervious area

ADDITIONAL PHOTO(S)





**Additional Photo Caption:**  
Street parking on one side



**Additional Photo Caption:**  
Dead end of Tudor Street

**Date Assessed:** 11/19/2018 13:43

**Assessed by:** JR, MP

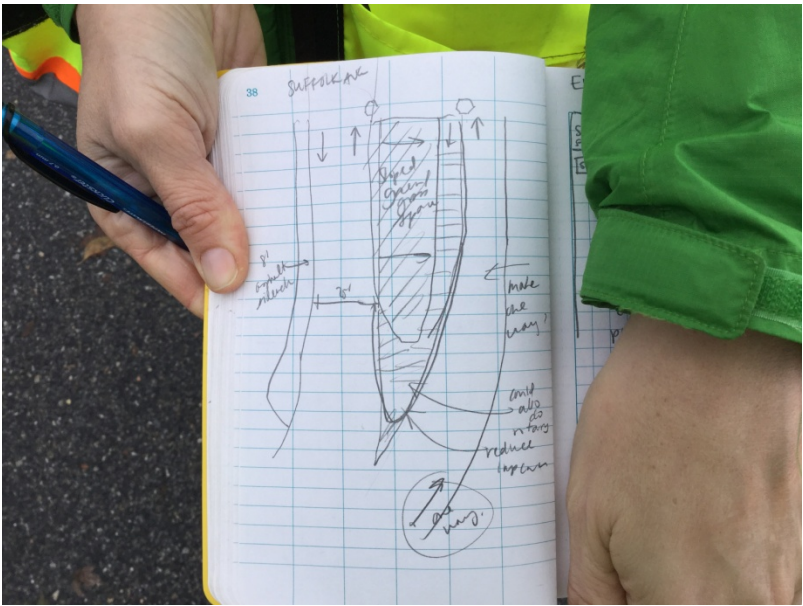
Name: 243 Suffolk Avenue		Priority Subshed # 1
<b>Site Location:</b> 		<b>Site Description:</b> Two parts of Suffolk Avenue come together (50' street width). Grass area between streets on steep slope. Both streets are two-ways with one sided parking. Could turn streets into two one-ways with rotary design with pervious center. Rotary could capture water from nearby catch basin.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> N/A	<b>Road Width:</b> 25'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Large street splits into two		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Remove impervious area		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

Date Assessed: 11/19/2018 13:59

Assessed by: JR, MP



SITE SKETCH



Sketch Caption: Location of pervious area



ADDITIONAL PHOTO(S)



Additional Photo Caption:  
Extend green space or install rotary



Additional Photo Caption:  
Rotary could take water from nearby CB

Name: 154 Ridge Road		Priority Subshed # 1
<b>Site Location:</b> 		<b>Site Description:</b> Side-walk on one side of Ridge Road is not curbed. Provide opportunity for removal of impervious area and creation of open space. No CBs or overhead utilities. Located at top of the watershed. Pervious pavement could be an option.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> 7'	<b>Road Width:</b> 25'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> No curb on south side of Ridge Road		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Permeable Pavement		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Overhead Utilities		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 14:11

**Assessed by:** JR, MP





[illegible]

### ADDITIONAL PHOTO(S)



**Additional Photo Caption:**

**Assessed by:** JR, MP

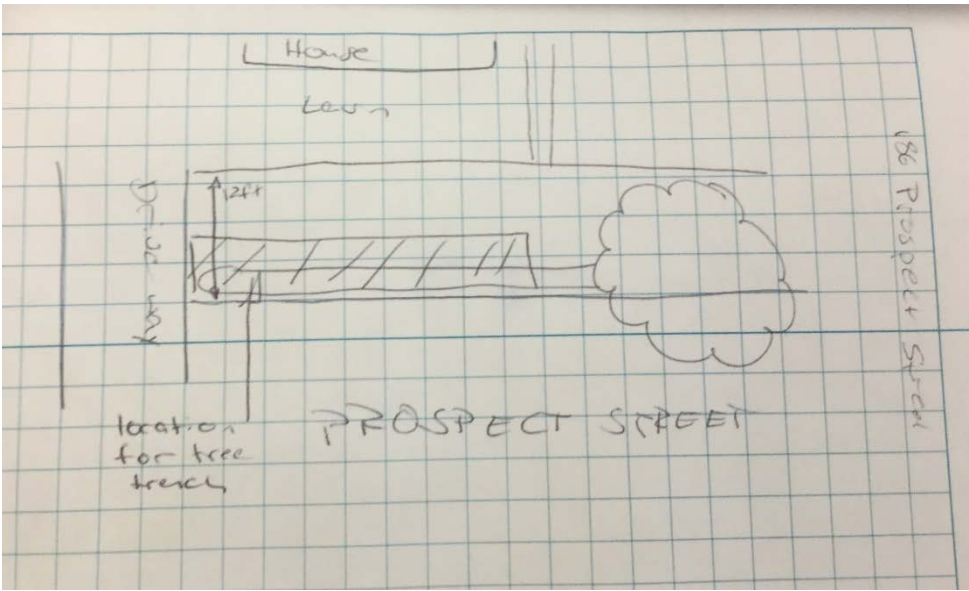
Name: 186 Prospect Avenue		Priority Subshed # 2
<b>Site Location:</b> 		<b>Site Description:</b> Wide sidewalk. Opening in tree canopy. Limited conflicts from utilities. Opportunity for tree trench or ROW swale. Limited opportunities along other parts of Prospect Avenue due to canopy cover and utilities.
		<b>Ownership:</b> Public (City-owned)
		<b>Primary Land Use:</b> Road/ROW
		<b>Primary Pollutants:</b> Leaves
<b>Sidewalk Width:</b> >10'	<b>Road Width:</b> 25'	<b>Parking Lot Dimensions:</b> N/A
<b>Site Overview Picture:</b> 		
<b>Site Overview Caption:</b> Tree trench opportunity		
<b>PROPOSED BEST MANAGEMENT PRACTICE</b>		
<b>Type:</b> Tree Trench		
<b>Primary BMP Benefit:</b> Water Quality		
<b>Primary Observed Site Conflict:</b> Entrances/Driveway , Street Trees/Canopy		
<b>Primary Non-Structural Control:</b> Street/Parking Lot Sweeping		

**Date Assessed:** 11/19/2018 14:22

**Assessed by:** JR, MP



SITE SKETCH



Sketch Caption: Tree trench between driveway and access to house

ADDITIONAL PHOTO(S)



Additional Photo Caption:  
12 ft wide sidewalk area



Additional Photo Caption:  
Drainage area

Date Assessed: 11/19/2018 14:22

Assessed by: JR, MP