

Meeting of November 7, 2016

South Portland City Council  
***Position Paper of the Interim City Manager***

***Subject:***

**ORDER #79-16/17 – Accepting a grant of \$10,000 from the Maine Department of Environmental Protection for the Trout Brook Restoration Project, Phase II. Passage requires majority vote.**

***Position:***

Trout Brook is on the Maine Department of Environmental Protection's Urban Impaired Streams list for failure to attain state water quality standards primarily due to the adverse effects of surrounding development. The DEP requires communities with such streams to develop and implement restoration plans to reduce pollutants and improve aquatic habitat with the ultimate goal of attaining water quality standards. Over the past several years, the City has received ~\$100K in grant funds from the DEP to develop a Watershed Management Plan (WMP) that identifies restoration strategies and has implemented dozens of projects to improve the water quality and aquatic habitat of Trout Brook (Phase I of the restoration effort).

More recently, the Town of Cape Elizabeth (where the majority of the Trout Brook watershed resides) also received ~\$100K in DEP grant funds to implement recommendations from the WMP (Phase II of the restoration effort). One of the planned projects for Cape Elizabeth couldn't be completed due to the sale / transfer of property. Therefore, in summer of 2016, DEP approached City staff to explore using ~\$10K of leftover grant funds from Cape Elizabeth to implement a stormwater treatment project in South Portland. City staff identified Boothby Avenue at the Trout Brook crossing as the preferred project location for a tree box filter because it would provide stormwater treatment for ~0.5 acres of impervious area along with a considerable amount of developed pervious area (see maps and photos in the memo from Fred Dillon).

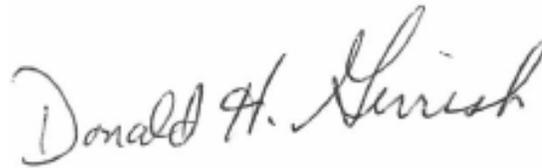
The use of \$10K in grant funds being offered by DEP for this project would be entirely consistent with the recommendations from the Trout Brook WMP and would help further the City's water resource protection goals. In addition to the \$10K that would be provided by DEP, the City would provide cash and in-kind match of at least 40% to install the stormwater treatment system. Since the DEP's grant must be closed out by 12/31/16, the project needs to be completed before the end of the 2016 construction season (typically late November). The Cumberland County Soil & Water Conservation District is administering the grant and will partner with the City to bring the project to completion.

<b>Sources of Match</b>	<b>Cost</b>
South Portland - in-kind	\$6,100
South Portland - cash	\$800
<b>Total</b>	<b>\$6,900</b>

Fred Dillon from the Water Resource Protection Department will be at Monday's meeting to answer any questions the Council may have.

***Requested Action:***

Council passage of ORDER #79-16/17.



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Interim City Manager



## Water Resource Protection

*Fred Dillon, Stormwater Program Coordinator*

### MEMORANDUM

**DATE:** 10/25/16

**TO:** Don Gerrish, Interim City Manager; Patrick Cloutier, Water Resource Protection Department Director; Dave Thomes, WRP Collection Systems Division Manager

**FROM:** Fred Dillon 

**RE:** Recommendation to accept \$10K in Maine DEP grant funds for Trout Brook stormwater improvement project

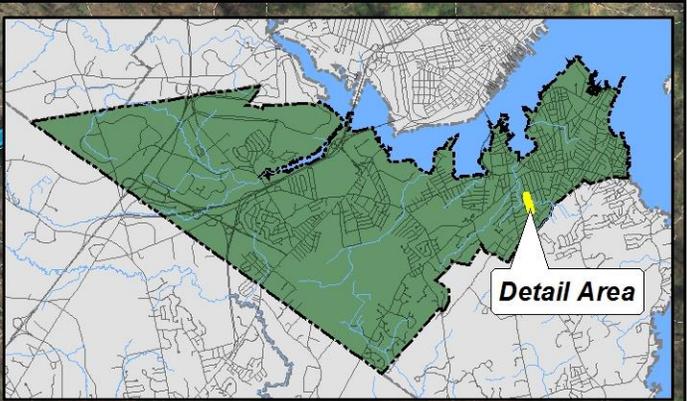
Trout Brook is on the Maine Department of Environmental Protection's Urban Impaired Streams list for failure to attain state water quality standards primarily due to the adverse effects of surrounding development. The DEP requires communities with such streams to develop and implement restoration plans to reduce pollutants and improve aquatic habitat with the ultimate goal of attaining water quality standards. Over the past several years, the City has received ~\$100K in grant funds from the DEP to develop a Watershed Management Plan (WMP) that identifies restoration strategies and has implemented dozens of projects to improve the water quality and aquatic habitat of Trout Brook.

More recently, the Town of Cape Elizabeth (where the majority of the Trout Brook watershed resides) also received ~\$100K in DEP grant funds to implement recommendations from the WMP. One of the planned projects for Cape Elizabeth couldn't be completed due to the sale / transfer of property. Therefore, in summer of 2016, DEP approached City staff to explore using ~\$10K of leftover grant funds from Cape Elizabeth to implement a stormwater treatment project in South Portland. City staff identified Boothby Avenue at the Trout Brook crossing as the preferred project location for a tree box filter because it would provide stormwater treatment for ~0.5 acres of impervious area along with a considerable amount of developed pervious area (see attached maps and photos below).

I respectfully recommend the acceptance of DEP grant funds for this project because it would be entirely consistent with the recommendations from the Trout Brook WMP and would help further the City's water resource protection goals. In addition to the \$10K that would be provided by DEP, the City would provide cash and in-kind match of at least 40% to install the stormwater treatment system. Since the DEP's grant must be closed out by 12/31/16, the project needs to be completed before the end of the 2016 construction season (typically late November).

I will be present at the Council meeting to answer any questions.

# Stormwater BMP Project Site Trout Brook at Boothby Avenue



- Sewer Structures**
- Catch Basin in Sewer
  - Sewer Manhole with CSO
  - Vault or Chamber
  - Interceptor Sewer Manhole
  - Pump Station
  - Treatment Plant
  - Sewer Manhole
  - Wet Well
  - Service Tie
  - Private Pump Stations
  - Dead End

- Sewer Pipes**
- Force Main
  - Gravity
  - Service
  - Siphon
  - Storm
- Water System**
- Service Valves
  - Water Valve
  - Public Hydrants
  - Private Hydrant
  - Water Mains

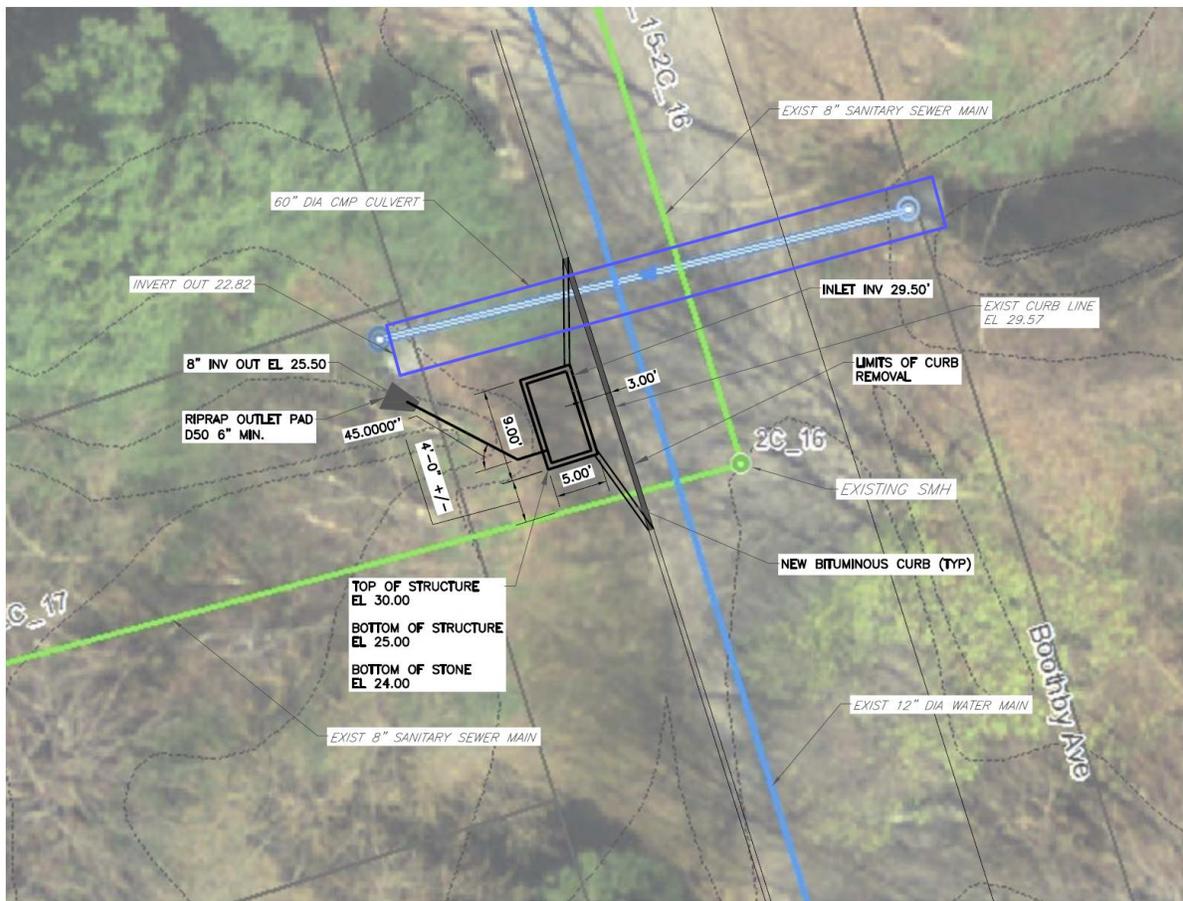
- Stormwater Structures**
- Culvert Inlet
  - Culvert Outlet
  - Outfall
  - Catchbasin
  - Drain Manhole
  - Outlet Control Structure
- Stormwater Pipes**
- CSO
  - Culvert
  - Gravity
  - Roof Drain

- Terrain**
- Waterbody
  - Wet Area
  - 2 Foot Contours
  - Hydrography
- Municipal**
- Political Boundary
  - Parcels, 12/2008
  - Buildings
- Sewer Districts**
- |     |     |
|-----|-----|
| 1H  | 112 |
| 111 | 113 |



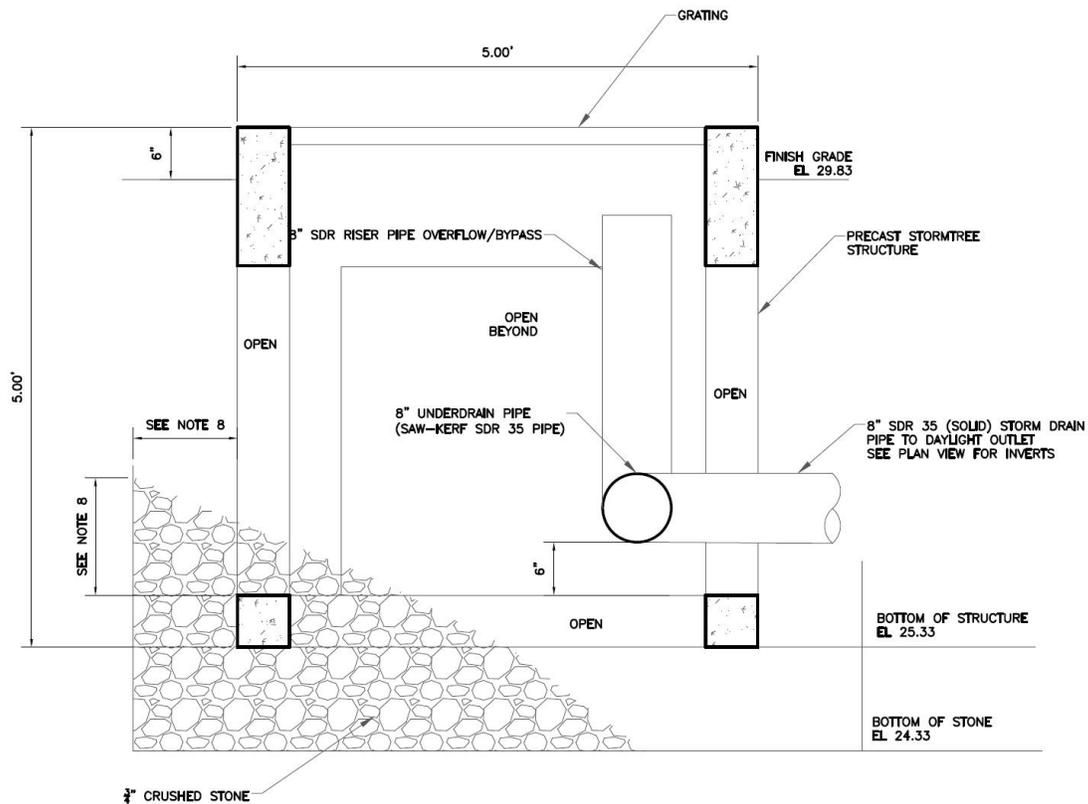
Date: 10/21/16 by F. Dillon





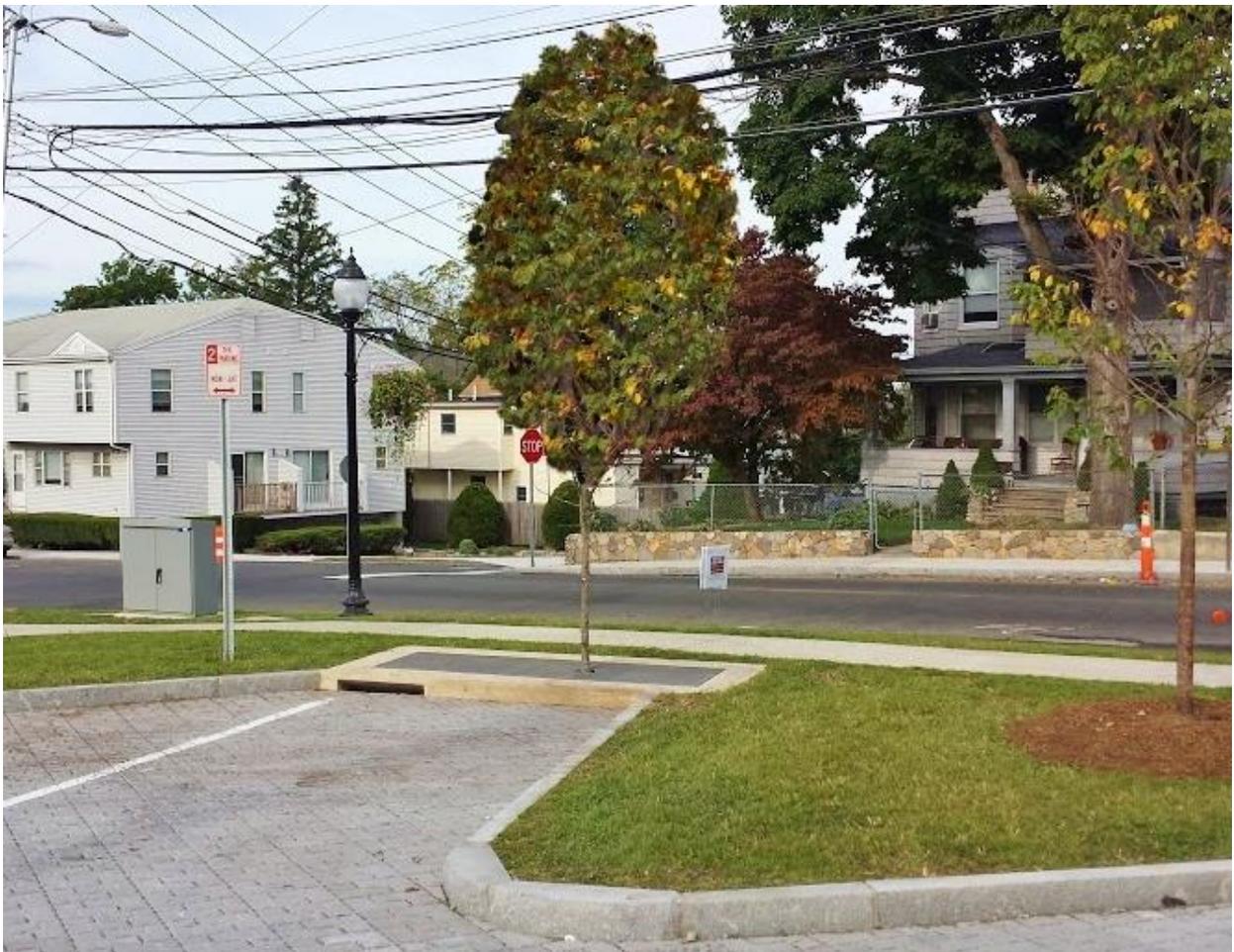
## STORMTREE FILTER STRUCTURE BOOTHBY AVE

SCALE:  
HORIZ. 1" = 10'



## STORMTREE FILTER STRUCTURE SECTION VIEW

SCALE:  
NO SCALE





# 7/24/12 Thunderstorm Boothby Ave and Trout Brook



View looking south  
uphill towards Beaufort



CITY OF SOUTH PORTLAND

THOMAS E. BLAKE  
Mayor

DON H. GERRISH  
Interim City Manager

SALLY J. DAGGETT  
Jensen Baird Gardner & Henry

EMILY F. SCULLY  
City Clerk

IN CITY COUNCIL

ORDER #79-16/17

District One  
CLAUDE V. Z. MORGAN

\_\_\_\_\_

District Two  
PATRICIA A. SMITH

\_\_\_\_\_

District Three  
EBEN C. ROSE

\_\_\_\_\_

District Four  
LINDA C. COHEN

\_\_\_\_\_

District Five  
BRAD FOX

\_\_\_\_\_

At Large  
MAXINE R. BEECHER

\_\_\_\_\_

At Large  
THOMAS E. BLAKE

**ORDERED**, a grant from the Maine Department of Environmental Protection in the amount of ten thousand dollars (\$10,000) for the Trout Brook Restoration Project, Phase II.

Said amount shall be credited to the Trout Brook Grant Account # 203141-441001-11869.

Fiscal Note: \$10,000 Revenue

November 7, 2016