TREE BOX FILTER SIZING CRITERIA
The proposed 6 ft x6 ft Tree Box Filter has been sized according to the recommendations of the UNH Stormwater Center to capture and treat runoff from less than 10,000 sf of contributing area.

This contributing area is less than allowed by the Maine DEP design recommendations within "Volume III: BMP Technical Design Manual". The Maine DEP recommendations state that a 6'x6' Filterra system is capable of treating at least 90% of the annual runoff volume from up to 0.47 acres.

TREE BOX FILTER MEDIA
The 3 ft thick filter media has been designed to meet the recommendations in section 7.2.4 of the Maine DEP's "Volume III: BMP Technical Design Manual".

TREE BOX FILTER INSPECTION/MAINTENANCE REQUIREMENTS
As required by the Portland City Code of Ordinaces. The owner or operator shall maintain the BMPs in accordance of the approved plan and shall demonstrate compliance with that plan as follows:

Inspections: The owner or operator of a BMP shall hire a qualified post-construction stormwater inspector to at least annually, inspect the BMPs, including but not limited to any parking areas, catch basins, drainage swales, detention basins and ponds, pipes and related structures, in accordance with all municipal and state inspection, cleaning and maintenance requirements of the approved plans.

Maintenance and Repair: If the BMPs require maintenance, repair or replacement to function as intended by the approved plans, the owner or operator of the BMP shall take corrective action(s) to address the deficiency or deficiencies as soon as possible after the deficiency is discovered and shall provide a record of the deficiency and corrective action(s) to the department of public works ("DPW") in the annual report.

Annual Report: The owner or operator of a BMP or a qualified post-construction stormwater inspector hired by that person, shall, on or by June 30 of each year, provide a completed and signed certification to DPW in a form provided by DPW, certifying that the person has inspected the BMP(s) and that they are adequately maintained and functioning as intended by the approved post-construction stormwater management plan, or that they require maintenance or repair, including the record of the deficiency and corrective action(s) taken.

Filing Fee: Any persons required to file and annual certification under this section shall include with the annual certification a filing fee established by DPW to pay the administrative and technical costs of review of the annual certification.

Right of Entry: In order to determine compliance with the City's Code of Ordinances and with the approved plan, the DPW may enter upon property at reasonable hours with the consent of the owner, occupant or agent to inspect the BMPs.

Inspection / Maintenance Criteria:

Inspection/ Maintenance	Frequency	Action
Visual Inspection	Monthly	- Visually inspect for damage and deterioration - Repair damages immediately
Filter	Spring/Fall	- If inspection indicates that the system does not drain within 72-hours following a rainfall event, then a qualified professional should assess the condition of the tree box filter to determine measures required to restore filtration function or infiltration function (as applicable), including but not limited to removal of accumulated sediments or reconstruction of the filter media to Maine DEP standards. - Filter media should be replaced when the tree is replaced.
Tree	Spring/Fall	- The tree should be inspected at least twice a year, and maintained in healthy condition, including pruning. - A dead or diseased tree, or a tree in stressed condition because of the constricted root space in the filter, should be removed and replaced.

SCALE IN FEET
0 30' 60'
GRAPHIC SCALE

Tighe & Bond
www

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/25/16

Proposed Parking Lot Improvements

Whole Foods Market

Portland, Maine

MARK	DATE	DESCRIPTION
1.	3/18/16	Issued per City Comment

PROJECT NO:	W2011-39
DATE:	2016/03/18
FILE:	W2011_SITE_REV 2.dwg
DRAWN BY:	REP
CHECKED:	KAM
APPROVED:	GMM

Tree Box Filter Exhibit

SCALE: AS SHOWN

Last Saved: 3/18/2016
Plotted On:Mar 21, 2016-5:52pm By: kam
T:\Tighe & Bond\Projects\W2011 Whole Foods\W2011-39 Portland ME\DWG-CAD\DESIGN\W2011_SITE_REV 2.dwg