**SPP00415 (01-01-21) *(This section requires SPP01040 and 02320)***

***(If a specific manufactured stormwater facility is needed per the plans, fill out the “Brand Name Form” and submit to Procurement along with your Contract Documents. If the design can accept any facility from the MSTT List, the form is NOT necessary.)***

***MSTT List:*** <https://www.portland.gov/bes/stormwater/swmm>

### Section 00415 - Vegetated Stormwater Facilities

Comply with section 00415 of the Standard Construction Specifications modified as follows:

***(Add the following to all BES Projects)***

Replace Slotted underdrain pipe in the list with the following.

**00415.10** **Materials**

Slotted underdrain pipe ………………………………………………………….2410.70(f)

***(Designer Note: If using section 01091 Stream Restoration, use the subsection 415.21)***

00415.21 **Logs** – Add the following to the beginning of the paragraph:

Imported logs shall meet the requirements of section 01091.10(d).

**00415.44 Site and Subgrade Preparation -**  Add the following to the end of “Fracture Stormwater Facility Soil”

Subsoiling may be performed when soil is neither wet nor dry. If a shovel cannot be forced into the soil, it is too dry. If the surface is sticky or muddy, it is too wet. Use a backhoe rear bucket or similar equipment with a tined bucket to break up the compacted soil and incorporate the compost. Work backwards away from excavated soils so that treated soil is not trafficked by the equipment. Insert the bucket through the compost layer and into the subsoil to a depth of 24 inches and raise a bucket of soil at least 24 inches above the soil surface. Tip the bucket and allow soil to fall. Repeat this procedure until no clumps of compacted soil larger than 12 inches in diameter remain. The tines of the bucket can be used to break apart larger clumps if necessary. 50 percent of the soil shall be in clumps 6 inches or smaller. No clumps shall be greater than 18” in diameter. The subsoiling is not intended to homogenize the compost and soil, but rather loosen the soil to a 24-inch depth and create veins of compost down to that depth as well. To ensure that subsoiling reached the appropriate depth, a push tube soil sampler shall be used to verify compost is present at 24 inch depth.

***(Use subsection .60 when plant installation, plant establishment, and facility maintenance activities will be provided by the Owner during the 2 year warranty period. This section can be removed however, if removed it leaves open the possibility that the facility could be built and not contracted with Reveg to plant and maintain. Reminder: Permit projects do not typically have Special Provisions they adhere to Burgundy book.)***

**00415.60 Vegetated Stormwater Facility Maintenance**  Replace this subsection with the following:

The Owner will perform plant establishment and stormwater facility maintenance activities during the two (2) year warranty period.