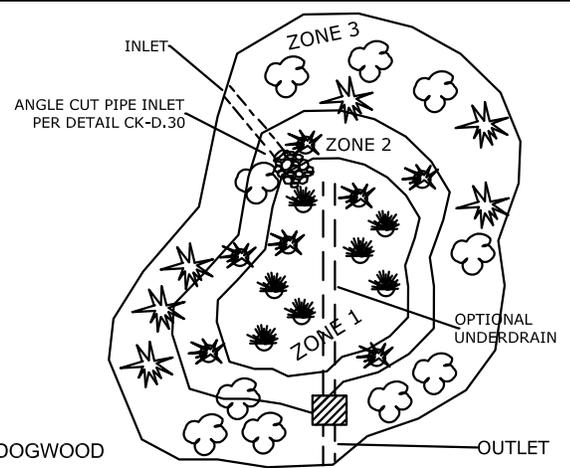


THE FOLLOWING LIST INCLUDES NATIVE AND NON-NATIVE PLANT SPECIES COMMONLY AVAILABLE IN PUGET SOUND, AND SUITABLE FOR BIORETENTION CELLS AND SWALES. SITE CHARACTERISTICS AND PROJECT GOALS MAY REQUIRE MODIFICATIONS TO PLANT PROPOSED HERE (PER APPROVAL BY THE ENGINEER).

ZONE 1: AREA OF PERIODIC OR FREQUENT STANDING OR FLOWING WATER. ZONE 1 PLANTS SHOULD ALSO TOLERATE SEASONAL DRY PERIODS UNLESS IRRIGATION IS AVAILABLE.

ZONE 2: AREA PERIODICALLY SATURATED DURING LARGER STORMS. PLANTS LISTED UNDER ZONE 2 MAY ALSO BE APPLICABLE IN ZONE 3.

ZONE 3: AREA WITH DRIER SOILS INFREQUENTLY SATURATED. THIS AREA CAN BE USED TO TRANSITION OR BLEND WITH THE EXISTING LANDSCAPE.



ZONE 1 EMERGENT PLANTS
 CAREX APERTA / COLUMBIA SEDGE
 CAREX OBNUPTA / SLOUGH SEDGE
 CAREX ROSTRATA / BEAKED SEDGE
 CAREX STIPATA / SAWBEAK SEDGE
 DESCHAMPSIA CAESPITOSA /
 TUFTED HAIRGRASS
 ELEOCHARIS PALUSTRIS / COMMON SPIKE RUSH
 JUNCUS EFFUSUS / SOFT RUSH
 JUNCUS ENSIFOLIUS / DAGGER-LEAF RUSH
 JUNCUS TENUIS / SLENDER RUSH
 SCIRPUS ACUTUS / HARDSTEM BULRUSH
 SCIRPUS MICROCARPUS /
 SMALL-FRUITED BULRUSH
 SPARGANIUM SP. / BURREED

ZONE 1 SHRUBS
 CORNUS SERICEA / RED-OSIER DOGWOOD
 CORNUS S. 'KELSEYI'
 DWARF RED-OSIER DOGWOOD
 SALIX PURPUREA 'NANA'/DWARF ARCTIC WILLOW
 SPIRAEA DOUGLASII / HARDHACK
 SPIRAEA JAPONICA /

ZONE 2 HERBACEOUS PLANTS
 AQUILEGIA SP. / COLUMBINE
 ARUNCUS SYLVESTER / GOAT'S BEARD
 ATHYRIUM FELIX-FEMINA / LADY FERN
 IRIS DOUGLASIANA / PACIFIC IRIS
 IRIS SIBIRICA / SIBERIAN IRIS

ZONE 2 SHRUBS
 CORNUS SERICEA / RED-OSIER DOGWOOD
 CORNUS S. 'KELSEYI'
 DWARF RED-OSIER DOGWOOD
 LONICERA INVOLUCRATA / BLACK TWINBERRY
 OEMLARIA CERASIFORMIS / INDIAN PLUM
 SPIRAEA JAPONICA
 SYMPHORICARPOS ALBA / SNOWBERRY

ZONE 3 HERBACEOUS PLANTS & GROUNDCOVER
 ARCTOSTAPHYLOS SP.
 FESTUCA OVINA 'GLAUCA' / BLUE FESCUE
 GAULTHERIA SHALLON / SALAL
 HEMEROCALIS VARS. / DAYLILY
 HEUCHERA VARS. / ALUMROOT
 LAVANDULA ANGUSTIFOLIA / LAVENDER
 MAHONIA REPENS / CREEPING MAHONIA
 POLYSTICHUM ACROSTICHOIDES / CHRISTMAS FERN
 POLYSTICHUM MUNITUM / SWORD FERN
 RUDBECKIA HIRTA / BLACK-EYED SUSAN

ZONE 3 SHRUBS
 ABELIA X GRANDIFLORA
 ESCALLONIA VARS.
 HOLODISCUS DISCOLOR /
 OCEANSPRAY
 MAHONIA AQUIFOLIUM /
 OREGON GRAPE
 POTENTILLA FRUTICOSA / CINQUEFOIL
 RIBES SANGUINEUM /
 RED-FLOWERING CURRANT
 ROSA GYMNOCARPA / BALDHIP ROSE
 VACCINIUM OVATUM /
 EVERGREEN HUCKLEBERRY

NOTE: CERTAIN TREES MAY BE APROPRIATE FOR USE IN THESE FACILITIES AND SHOULD BE SELECTED PENDING SITE CONDITIONS.

SPECIAL CONSIDERATIONS: IN ADDITION TO SOIL MOISTURE ZONES, PLANTS SHOULD BE SELECTED TO FIT EXPOSURE, AESTHETICS AND SAFETY ISSUES .

EXPOSURE: CAREFUL CONSIDERATION SHOULD BE GIVEN TO SELECTING PLANTS FOR SUN / SHADE EXPOSURE AT THE SITE. MANY RAIN GARDENS ARE LARGELY SURROUNDED WITH PAVEMENT WHICH INCREASES THE HEAT EFFECTS OF SUN EXPOSURE. **DROUGHT TOLERANCE:** THIS LIST EMPHASIZES NATIVE PLANTS, WHICH ARE GENERALLY WELL ADAPTED TO WET WINTER AND DRY SUMMER CONDITIONS. HOWEVER, SEVERAL ZONE 1 PLANTS WILL REQUIRE IRRIGATION. IN GENERAL, ALL PLANTINGS REQUIRE WATER DURING ESTABLISHMENT.

SIGHT CLEARANCE: ENSURE ADEQUATE SIGHT DISTANCE FOR ALL USERS PER CODE.

TREES: TREES MAY NOT BE APPROPRIATE IN ALL BIORETENTION CELLS, AND PLACEMENT MUST BE APPROVED BY THE ENGINEER. CONSIDER HEIGHT, SPREAD, AND EXTENT OF ROOTS AT MATURITY. USE CAUTION IN TREE SELECTION FOR AREAS WITH UNDER-DRAIN PIPES OR OTHER STRUCTURES. SEE APPENDIX 1: STREET TREES FOR MORE INFORMATION ON TREE SELECTION AND PLACEMENT SUGGESTIONS.

NOTES:

USE A MINIMUM OF 3 DIFFERENT SHRUBS AND 3 EMERGENT/GROUNDCOVER SPECIES IN EACH ZONE.

MINIMUM PLANT QUANTITIES ARE 90 PLANTS PER 100 SQ. FT. TREATMENT AREA, INCLUDING 4 SHRUBS MIN.

BIORETENTION CELLS MUST CONTAIN PLANTING ZONES 1, 2 AND 3.

EMERGENT PLANTS SHALL BE 4" POTS OR 10 C.I. PLUGS, PLACED IN CLUSTERS OF 7-15 PLANTS AT 9" O.C.

SHRUBS SHALL BE 1-GALLON, PLACED IN CLUSTERS OF 3-7.

NO TURF GRASS SHALL BE USED IN BIORETENTION CELLS.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
 NATURAL RESOURCES/STORMWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015



City of Redmond
 WASHINGTON

STANDARD DETAILS

**BIORETENTION
 PLANT PALETTE**

FILE NAME: SD657.DWG

DETAIL NUMBER: **657**