



2013 Rain Gardens Report
NE 131st/132nd Place
Saturday, May 18th



Rain Garden Program

Rain
Dog
Designs



Rain Gardens Site Map



Rain Gardens Location Key

- 1 9032 NE 132nd Pl
- 2 9031 NE 132nd Pl
- 3 9037 NE 132nd Pl
- 4 9037 NE 132nd Pl
- 5 13204 91st Pl NE
- 6 9090 NE 131st Pl
- 7 9058 NE 131st Pl
- i Interpretive Sign



9032 NE 132nd Pl

DIMENSIONS AND INSTALLATION DETAILS

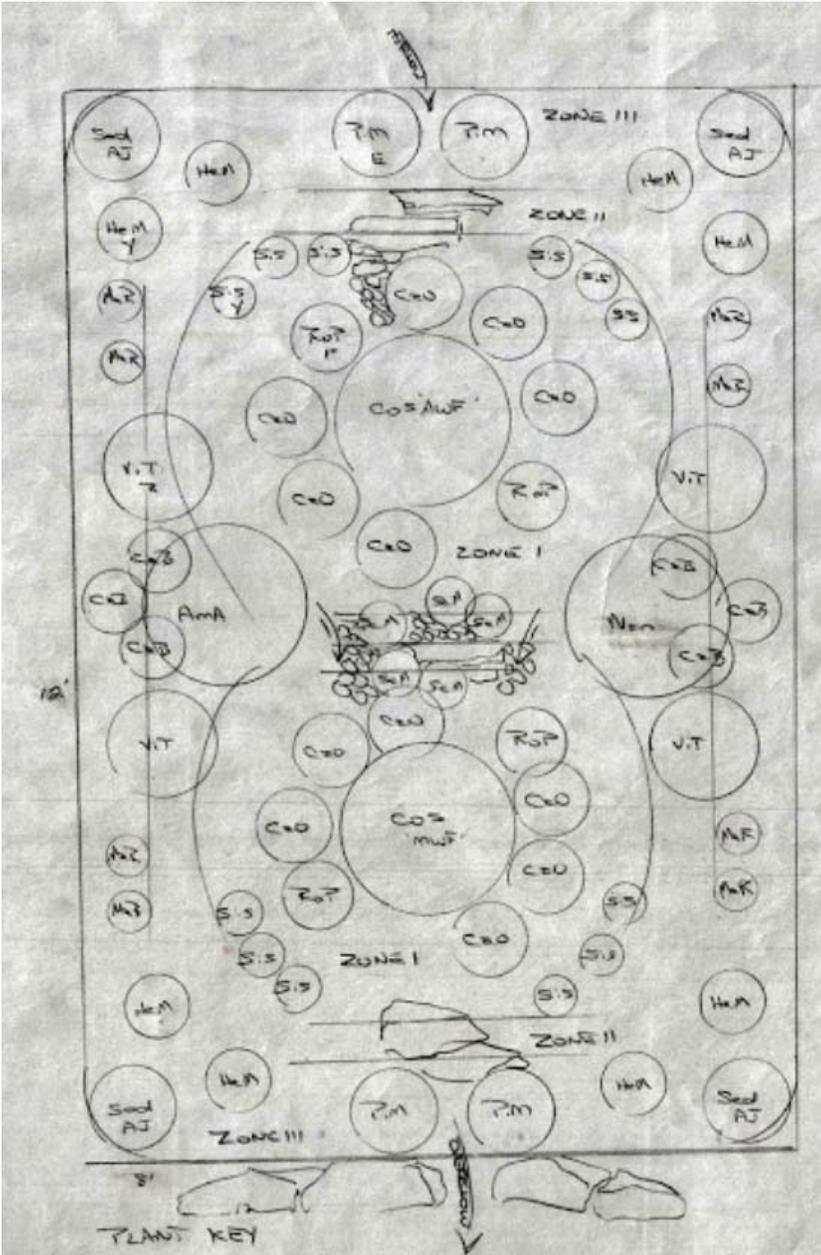


Outside Dimensions	9' width x 12' length
Inside Dimensions	6' width x 9' length
Bottom Dimensions	54 square feet (two cells)
Side Slopes	2:1, approximate
Downspouts Connected	2
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	2450 square feet
Total Roof Area Treated	995 square feet, approximate
Total Sidewalk Area Treated	None
Pond Bottom Area	54 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Two left front downspouts were connected into this attractive, terraced street side rain garden.



9032 NE 132nd Pl

Layout and Planting Plan



Key	Plant Name
COS	Cornus stolonifera; Red Twig Dogwood
CaO	Carex obnupta; Slough Sedge
RoP	Rosa pisocarpa; Bald Hip Rose
SisY	Sisyrinchium californicum; Yellow-eyed Grass
ViT	Viburnum trilobum; High Bush Cranberry
MaR	Mahonia repens; Creeping Oregon Grape
Hem	Hemerocallis stella d'oro; Day Lilly
SedAJ	Sedum 'autumn joy'
SeM	Scirpus microcarpus; Bull Rush
AmA	Amelanchier alnifolia; Serviceberry
NaN	Nandina domestica 'Harbor Lights'; Nandina
FrC	Fragaria chiloensis; Coastal Strawberry
PiM	Pinus Mugo 'slowmound'; mugo pine



9031 NE 132nd Pl

DIMENSIONS AND INSTALLATION DETAILS

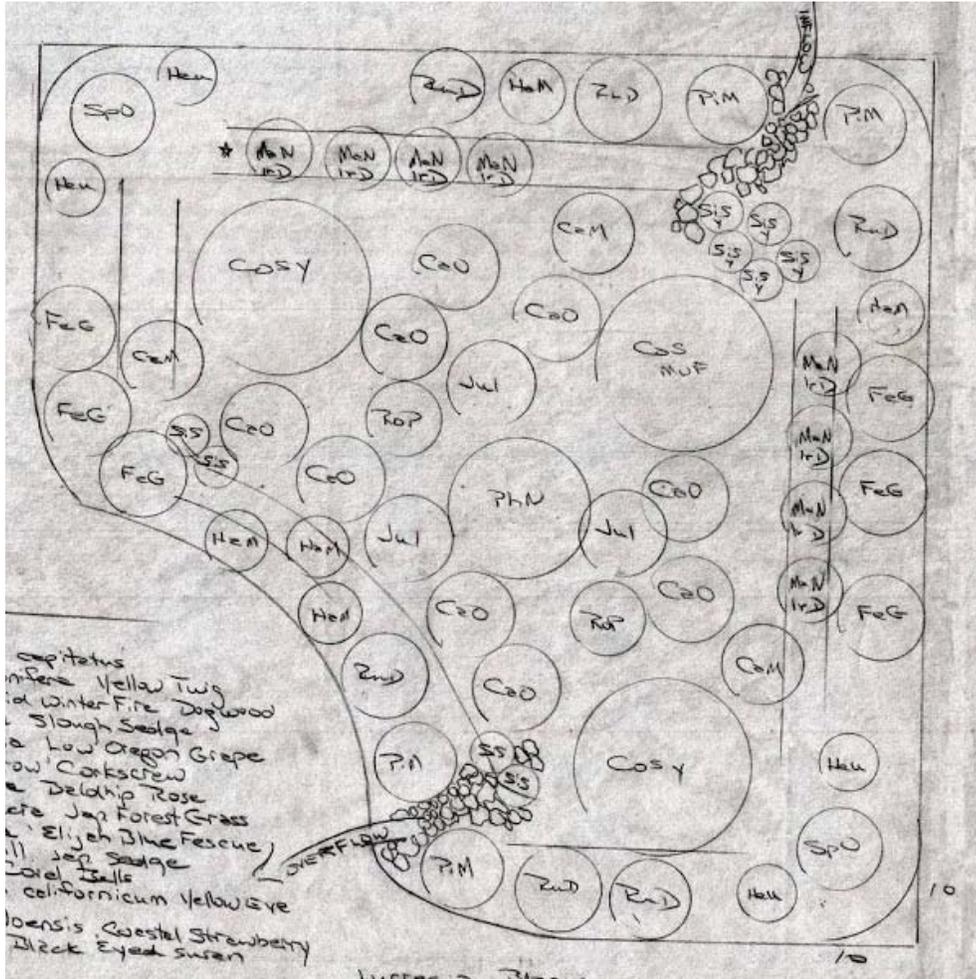


Outside Dimensions	10' width x 10' length
Inside Dimensions	7' width x 6' length
Bottom Dimensions	42 square feet
Side Slopes	3:1, approximate
Downspouts Connected	1
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	2170 square feet
Total Roof Area Treated	670 square feet, approximate
Total Sidewalk Area Treated	None
Pond Bottom Area	42 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	A single left front downspout was connected into this attractive driveway and street side rain garden



9031 NE 132nd Pl

Layout and Planting Plan



Plant Key

Key	Plant Name
PhN	Physocarpus capitatus; Pacific Ninebark
CosMWF	Cornus stolonifera; Mid Winter Fire Dogwood
Jul	Juncus 'blue arrow'; Corkscrew Rush
HaM	Hakonechloa macra; Japanese Forest Grass
CaM	Carex morrowill; Japanese Sedge
Sis y	Sisyrinchium californicum; Yellow-eyed Grass
PiM	Pinus mugo 'slowmound'; Mugo Pine

Key	Plant Name
CosY	Cornus stolonifera; Yellow Twig
MaN	Mahonia nervosa; Low Oregon Grape
RoP	Rosa pisocarpa; Bald Hip Rose
FeG	Festuca glauca; Elijah Blue Fescue
Heu	Heuchera; Coral Bells
RuD	Rudbeckia; Black Eyed Susan



9037 NE 132nd Pl

DIMENSIONS AND INSTALLATION DETAILS - RAIN GARDEN 1

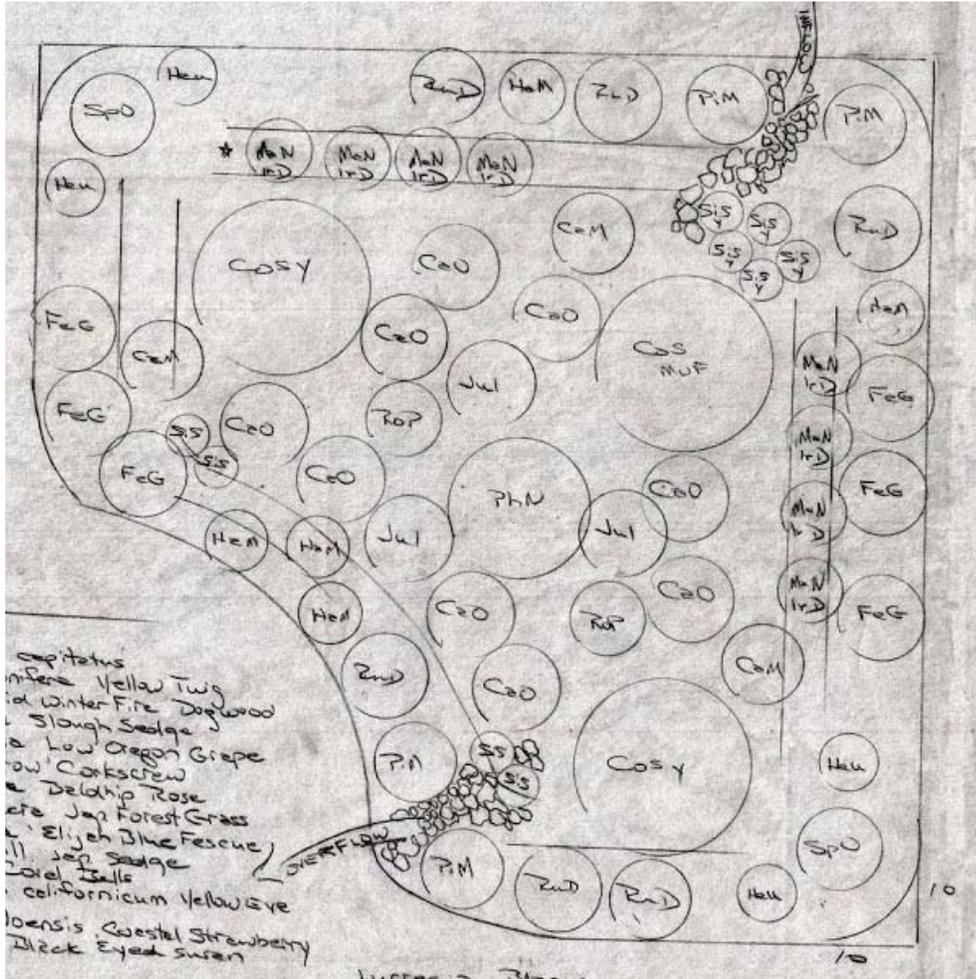


Outside Dimensions	10' width x 10' length
Inside Dimensions	8' width x 8' length
Bottom Dimensions	64 square feet
Side Slopes	3:1, approximate
Downspouts Connected	2
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	1890 square feet
Total Roof Area Treated	815 square feet, approximate
Total Sidewalk Area Treated	None
Pond Bottom Area	64 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Front right and rear downspouts were connected into this attractive driveway and street side rain garden



9037 NE 132nd Pl

Layout and Planting Plan



Plant Key

Key	Plant Name
PhN	Physocarpus capitatus; Pacific Ninebark
CosMWF	Cornus stolonifera; Mid Winter Fire Dogwood
Jul	Juncus 'blue arrow'; Corkscrew Rush
HaM	Hakonechloa macra; Japanese Forest Grass
CaM	Carex morrowill; Japanese Sedge
SiSy	Sisyrinchium californicum; Yellow-eyed Grass
PiM	Pinus mugo 'slowmound'; Mugo Pine

Key	Plant Name
CosY	Cornus stolonifera; Yellow Twig Dogwood
MaN	Mahonia nervosa; Low Oregon Grape
RoP	Rosa pisocarpa; Bald Hip Rose
FeG	Festuca glauca; Elijah Blue Fescue
Heu	Heuchera; Coral Bells
RuD	Rudbeckia; Black Eyed Susan



9037 NE 132nd Pl

DIMENSIONS AND INSTALLATION DETAILS - RAIN GARDEN 2

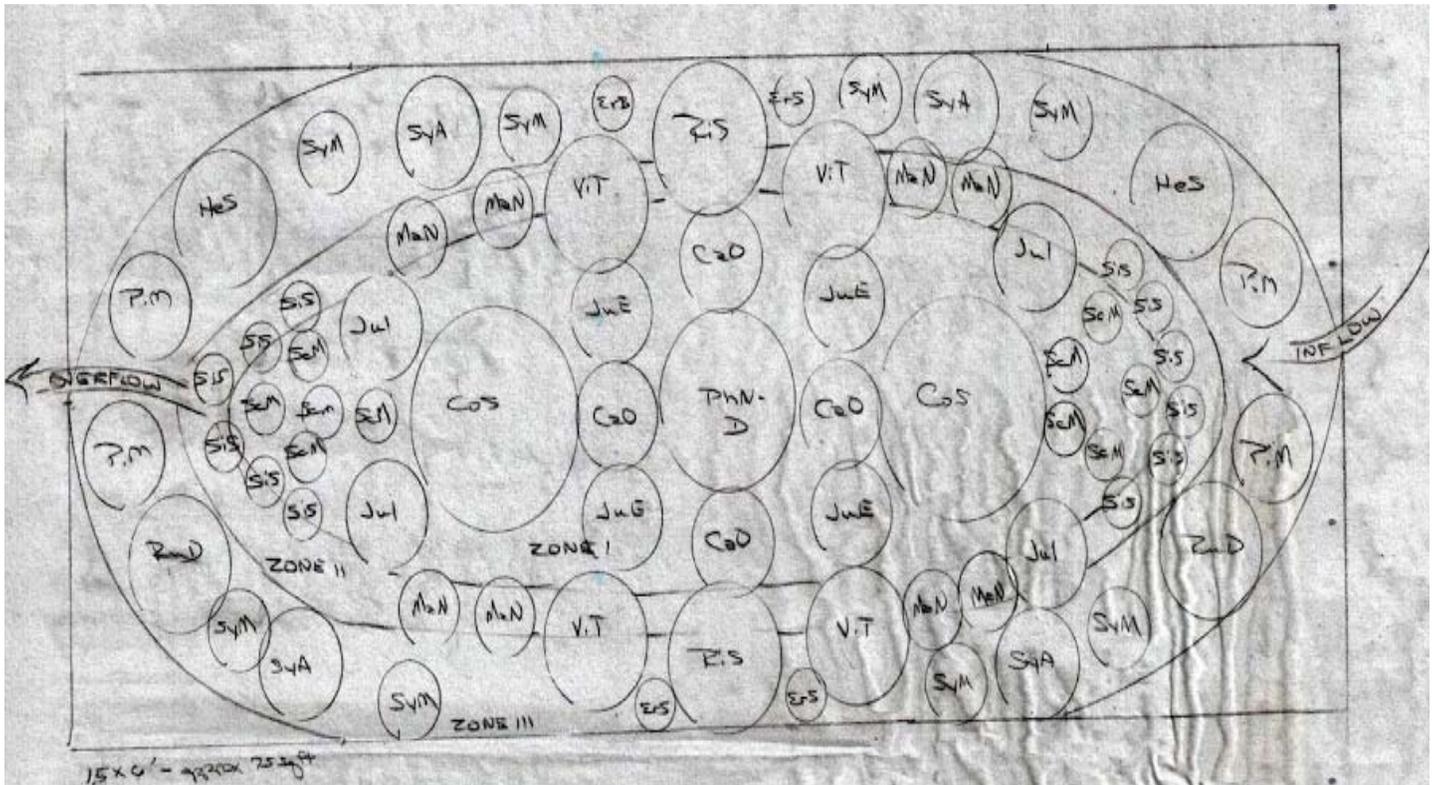


Outside Dimensions	8.5' width x 15' length
Inside Dimensions	6' width x 12' length
Bottom Dimensions	72 square feet
Side Slopes	3:1, approximate
Downspouts Connected	1 into catch basin
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	1890 square feet
Total Roof Area Treated	680 square feet, approximate
Total Driveway Area Treated	380 square feet, approximate
Pond Bottom Area	72 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Left front downspout and driveway are connected into this attractive corner and street side rain garden.



9037 NE 132nd Pl

Layout and Planting Plan



Plant Key

Key	Plant Name
COS	Cornus stolonifera; Red Twig Dogwood
JuE	Juncus ensifolius; Daggerleaf Rush
PiM	Pinus mugo 'slowmound'; Mugo Pine
ScM	Sirpus microcarpus; Bull Rush
ErS	Erigeron speciosus; Aster
SyM	Symphoricarpos mollis; Creeping Snowberry
SisB	Sisyrinchium idahoense; Blue Eyed Grass
ViT	Viburnum; High Bush Cranberry

Key	Plant Name
CaO	Carex obnupta; Slough Sedge
Jul	Juncus 'blue arrow; Corkscrew Rush
RiS	Ribes sanguinum; Red Flowering Currant
HeS	Helictorichon; Blue Oat Grass
SyA	Symphoricarpos albus; Common Snowberry
FrC	Fragaria chiloensis; Coastal Strawberry
ScM	Scarpus microcarpus; Bull Rush
PhND	Physocarpus diablo; Ninebark



13204 91st Pl NE

DIMENSIONS AND INSTALLATION DETAILS

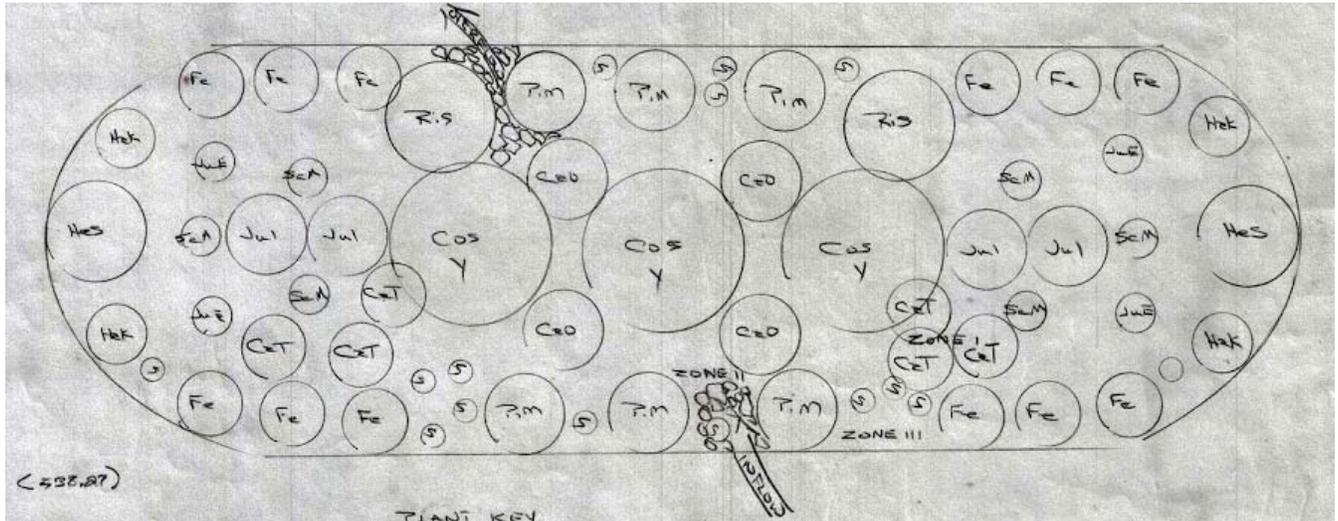


Outside Dimensions	5' width x 15' length
Inside Dimensions	4' width x 12' length
Bottom Dimensions	48 square feet
Side Slopes	3:1, approximate
Downspouts Connected	2
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	1520 square feet
Total Roof Area Treated	750 square feet, approximate
Total Driveway Area Treated	None
Pond Bottom Area	48 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Right front and rear downspouts are connected into this attractive street side rain garden.



13204 91st Pl NE

Layout and Planting Plan



Plant Key

Key	Plant Name
COSy	Cornus stolonifera; Yellow Twig Dogwood
JuE	Juncus ensifolius; Daggerleaf Rush
PiM	Pinus mugo 'slowmound'; Mugo Pine
ScM	Sirpus microcarpus; Bull Rush
S	Sedum spathulifolium; Cape Blanco
Fe	Fescue 'Elijah Blue'; Blue Fescue

Key	Plant Name
CaO	Carex obnupta; Slough Sedge
Jul	Juncus 'blue arrow'; Corkscrew Rush
RiS	Ribes sanguinum; Red Flowering Currant
HaM	Hakonechloa macra; Japanese Forest Grass
CaT	Carex testacea; New Zealand Sedge



9090 NE 131st Pl

DIMENSIONS AND INSTALLATION DETAILS

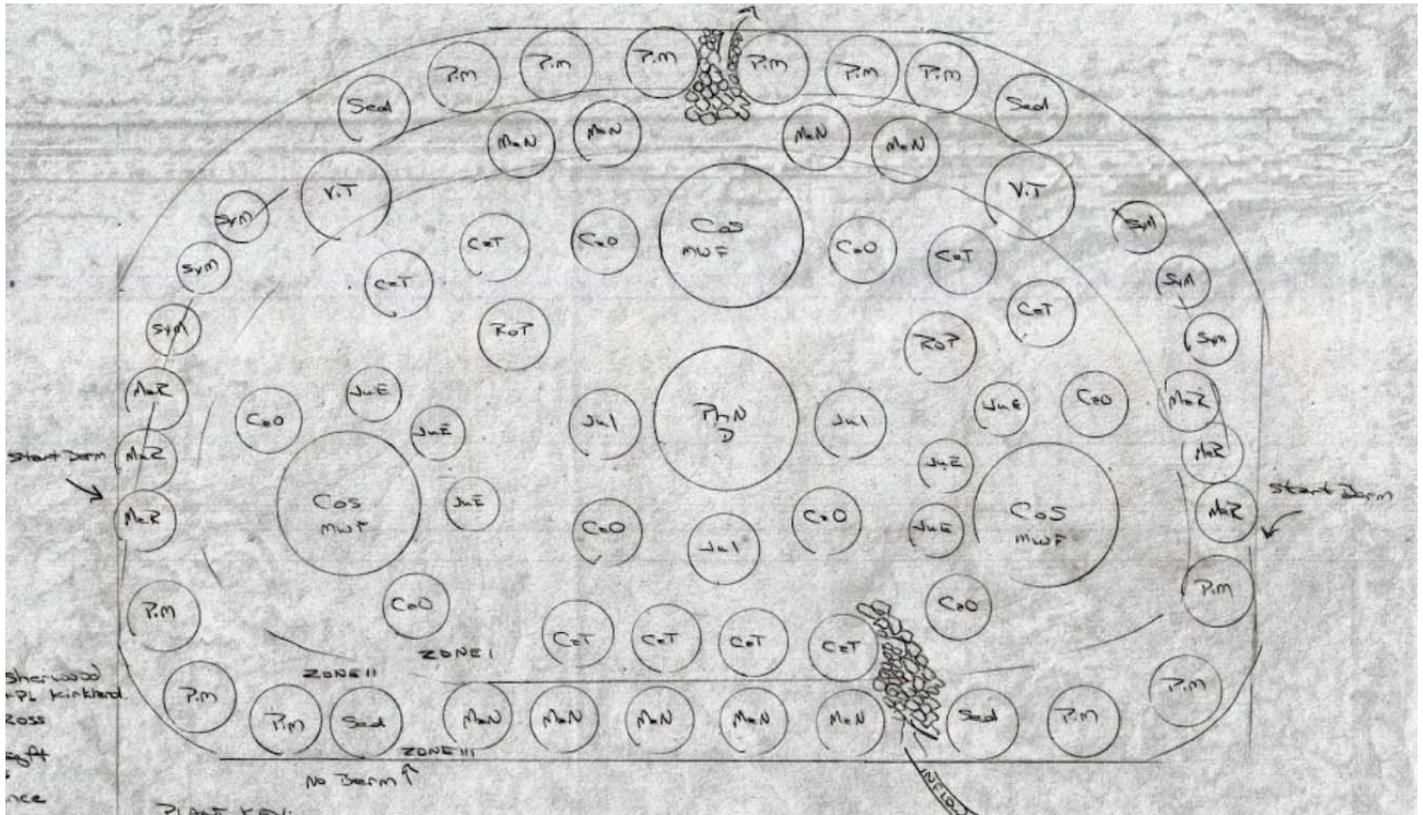


Outside Dimensions	7' width x 15' length
Inside Dimensions	5' width x 12' length
Bottom Dimensions	60 square feet
Side Slopes	2:1, approximate
Downspouts Connected	3
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	1980 square feet
Total Roof Area Treated	760 square feet, approximate
Total Driveway Area Treated	None
Pond Bottom Area	48 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Right side and rear downspouts are connected into this attractive corner lot and street side rain garden.



9090 131st Pl NE

Layout and Planting Plan



Plant Key

Key	Plant Name
PhN	Physocarpus diablo; Nine Bark
JuE	Juncus ensifolius; Daggerleaf Rush
PiM	Pinus mugo 'slowmound'; Mugo Pine
ScM	Scirpus microcarpus; Bull Rush
CaO	Carex obnupta; Slough Sedge
SyM	Symphoricarpos mollis; Creeping Snowberry
Carpet'	Rubus
MaR	Mahonia repens; Creeping Oregon Grape

Key	Plant Name
CaO	Carex obnupta; Slough Sedge
JuI	Juncus 'blue arrow; Corkscrew Rush
SpDo	Spirea ogon; Mellow Yellow Spirea
MaN	Mahonia nervosa; Low Oregon Grape
ViT	Viburnum trilobum; High Bush Cranberry
RuE	Rubus calycinoides 'Emerald



9058 NE 131st Pl

DIMENSIONS AND INSTALLATION DETAILS

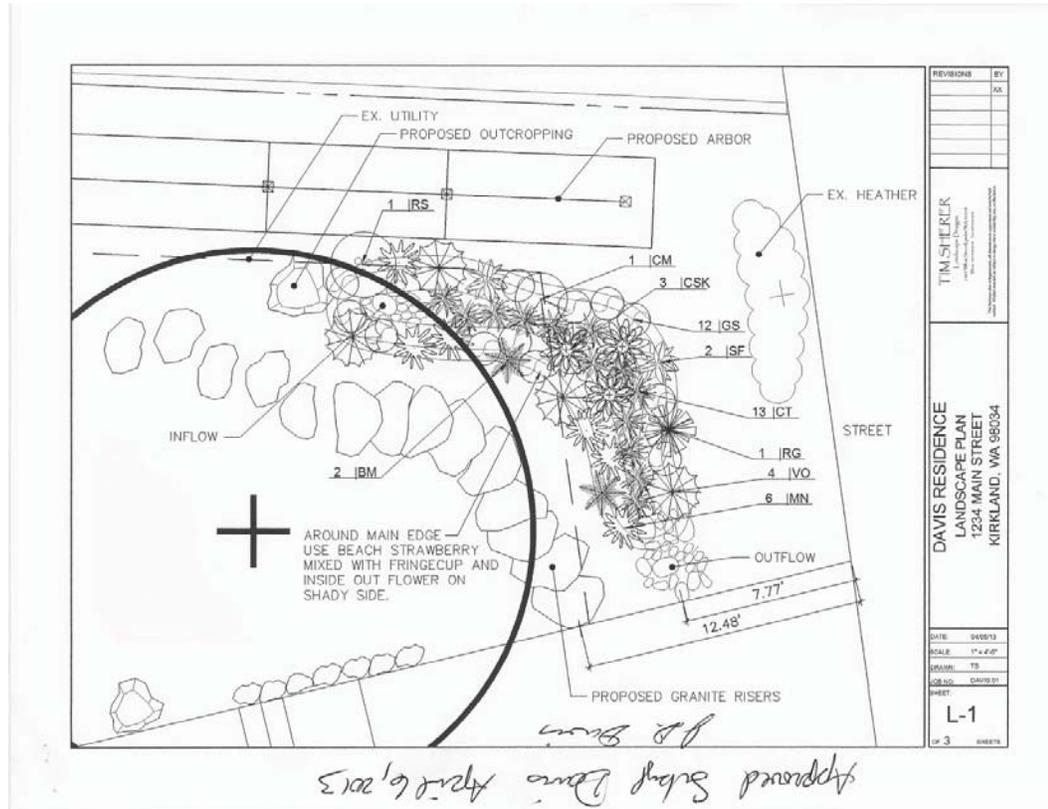


Outside Dimensions	10' width x 14' length
Inside Dimensions	7' width x 11' length
Bottom Dimensions	77 square feet
Side Slopes	3:1, approximate
Downspouts Connected	2
Infiltration Rate	>0.5"/ hour (well draining)
Total Roof Area	1760 square feet
Total Roof Area Treated	472 square feet, approximate
Total Driveway Area Treated	None
Pond Bottom Area	77 square feet
Excavation Depth	18 inches
Soil Mix	50% compost/50% native soil
Mulch Maintenance (3" Depth)	0.5 CY
Comments	Right side and rear downspouts are connected into this attractive terraced street side rain garden.



9090 131st Pl NE

Layout and Planting Plan



PLANT MATERIAL LIST

Code

Shrubs

- CSK Cornus sericea 'Kelsey' Dwarf Redtwig Dogwood
- CM Cornus sanguinea 'Midwinter Fire'
- GS Gaultheria shallon - Salal 5' psh-sh d-m
- MN Mahonia nervosa - Low Oregon Grape 3' psh-sh d-moist
- RG Rosa gymnocarpa - Bald Hip Rose 4' s-sh d-w
- RS Ribes sanguineum - Red Flowering Current 6' s-psh d-m
- VO Vaccinium ovatum - Evergreen Huckleberry 6' s-sh dry-m

Ornamental Grasses

- CT Carex testacea Orange New Zealand Sedge

Ferns

- BM Blechnum spicant - Deer Fern 2' psh-sh d-wet
- SF Polystichum munitum - Sworf Fern 3' psh-sh d-m

Groundcovers

- FC Fragaria chiloensis - Beach Strawberry 1' s-psh d
- TG Tellium grandiflora - Fringecup 1' psh-sh moist
- VH Vancouveria hexandra - Inside-out Flower psh-sh d-moist



NE 131st/132nd Place Rain Gardens

What is a Rain Garden?

Rain gardens function like native forests to help slow down, soak up and filter polluted runoff from downspouts, driveways and other hard surfaces. A rain garden is a shallow depression planted with a variety of flowers, shrubs, and grasses that tolerate wet winters and dry summers. When planted with the right types of plants, rain gardens also attract birds and butterflies.

These rain gardens were built through a partnership between participating homeowners on NE 131st Place, NE 132nd Place, 91st Place NE, the City of Kirkland, Rain Dog Designs, Signature Landscape Services and the 12,000 Rain Gardens Campaign.

Benefits

- Absorb rainwater runoff
- Filter oil, grease and toxic materials
- Replenish groundwater
- Provide wildlife habitat



1

Stormwater collects pollutants from the roof and driveway

Native plants or other hardy plants

2

Rain garden absorbs and filters runoff through amended soil layers and deep native plant roots

ponding depth 6" to 12"

overflow lower than inflow

rain garden soil mix

level unlined bottom

The Alternative

With no rain garden, polluted runoff flows directly into Lake Washington or can cause sewer overflows.

3

Rain gardens help our fish and other wildlife enjoy cleaner water

