

Laker Turf Building

Rain Garden #1

Plant Species	Common Name	Plug Quantity
<i>Aster novae-angliae</i>	New England Aster	205
<i>Carex vulpinoidea</i>	Fox Sedge	762
<i>Eupatorium maculatum</i>	Joe-Pye Weed	76
<i>Helenium autumnale</i>	Sneezeweed	152
<i>Iris virginica</i>	Blue Flag Iris	304
<i>Lobelia siphilitica</i>	Blue Lobelia	64
<i>Panicum virgatum</i>	Switchgrass	368
<i>Penstemon digitalis</i>	Beardtongue	76
<i>Physostegia virginiana</i>	Obedient Plant	228
<i>Rudbeckia hirta</i>	Black-Eyed Susan	259
<i>Silphium perfoliatum</i>	Cup Plant	152
<i>Solidago rigida</i>	Stiff Goldenrod	190
<i>Spartina pectinata</i>	Prairie Cordgrass	494
<i>Veronicastrum virginicum</i>	Culver's Root	254
<i>Vernonia missurica</i>	Ironweed	38
<i>Zizia aurea</i>	Golden Alexanders	228

Rain Garden #2

Plant Species	Common Name	Quantity
<i>Echinacea purpurea</i> 'Magnus'	Magnus Purple Coneflower	48
<i>Eupatorium dubium</i> 'Little Joe'	Little Joe Joe-Pye	48
<i>Geranium</i> x 'Rozanne'	Rozanne Geranium	32
<i>Liatris spicata</i> 'Kobold'	Kobold Liatris	48
<i>Rudbeckia speciosa</i> 'Viette's Little Suzy'	Little Suzy Black-Eyed Susan	64

Rain Garden #3

Plant Species	Common Name	Plug Quantity
<i>Aster novae-angliae</i>	New England Aster	99
<i>Carex vulpinoidea</i>	Fox Sedge	150
<i>Panicum virgatum</i>	Switchgrass	88
<i>Rudbeckia hirta</i>	Black-Eyed Susan	121

Vegetated Roof

Plant Species	Common Name	Quantity
<i>Sedum</i> spp.	Sedum	Approx. 2450 sq. ft.

Tree Plant List

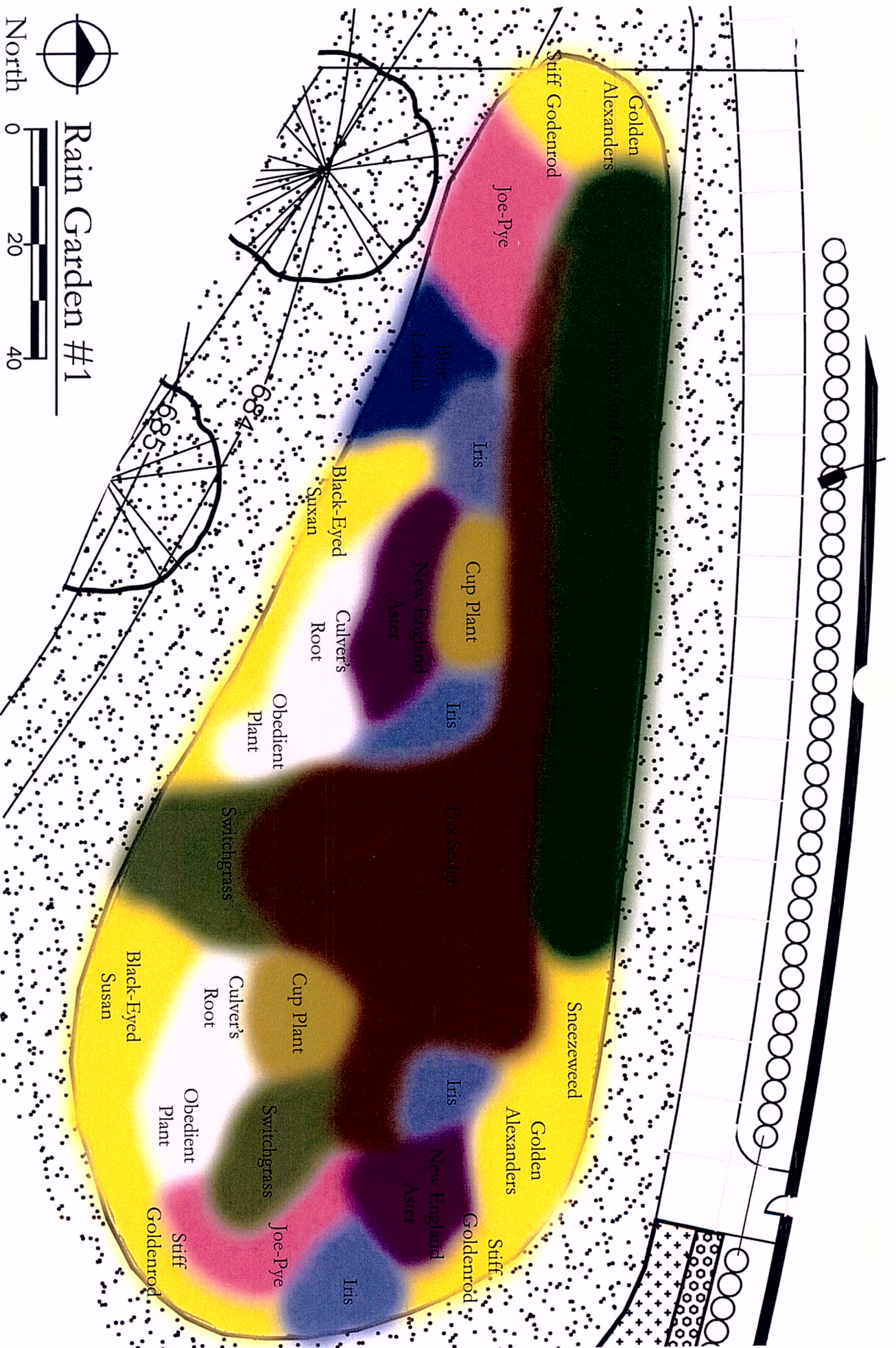
Plant Species	Common Name	Quantity
<i>Acer rubrum</i> 'Armstrong'	Armstrong Red Maple	5
<i>Betula nigra</i>	River Birch	1
<i>Malus</i> 'Prairie Fire'	Prairie Fire Crabapple	5
<i>Picea glauca</i>	White Spruce	13
<i>Plantanus x acerifolia</i> 'Bloodgood'	London Planetree	10
<i>Prunus</i> sp.	Ornamental Cherry	3
<i>Prunus subhirtella</i> 'Autumnalis'	Autumn Flowing Cherry	2
<i>Pyrus calleryana</i> 'Red Spire'	Red Spire Pear	4

Shrub Plant List

Plant Species	Common Name	Quantity
<i>Viburnum plicatum</i> var. <i>tomentosum</i> 'Mariesii'	Marie's Doublefile Viburnum	6

Perennial Plant List

Plant Species	Common Name	Quantity
<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	72
<i>Echinacea purpurea</i> 'Magnus'	Magnus Purple Coneflower	50
<i>Pennisetum alopecuroides</i>	Fountain Grass	77
<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Dwarf Fountain Grass	100
<i>Rudbeckia fulgida</i> var. <i>sullivantii</i> 'Goldsturm'	Goldsturm Black-Eyed Susans	240
<i>Sedum spectabile</i> 'Brilliant'	Brilliant Sedum	25



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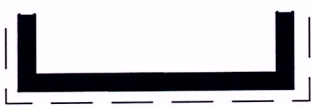
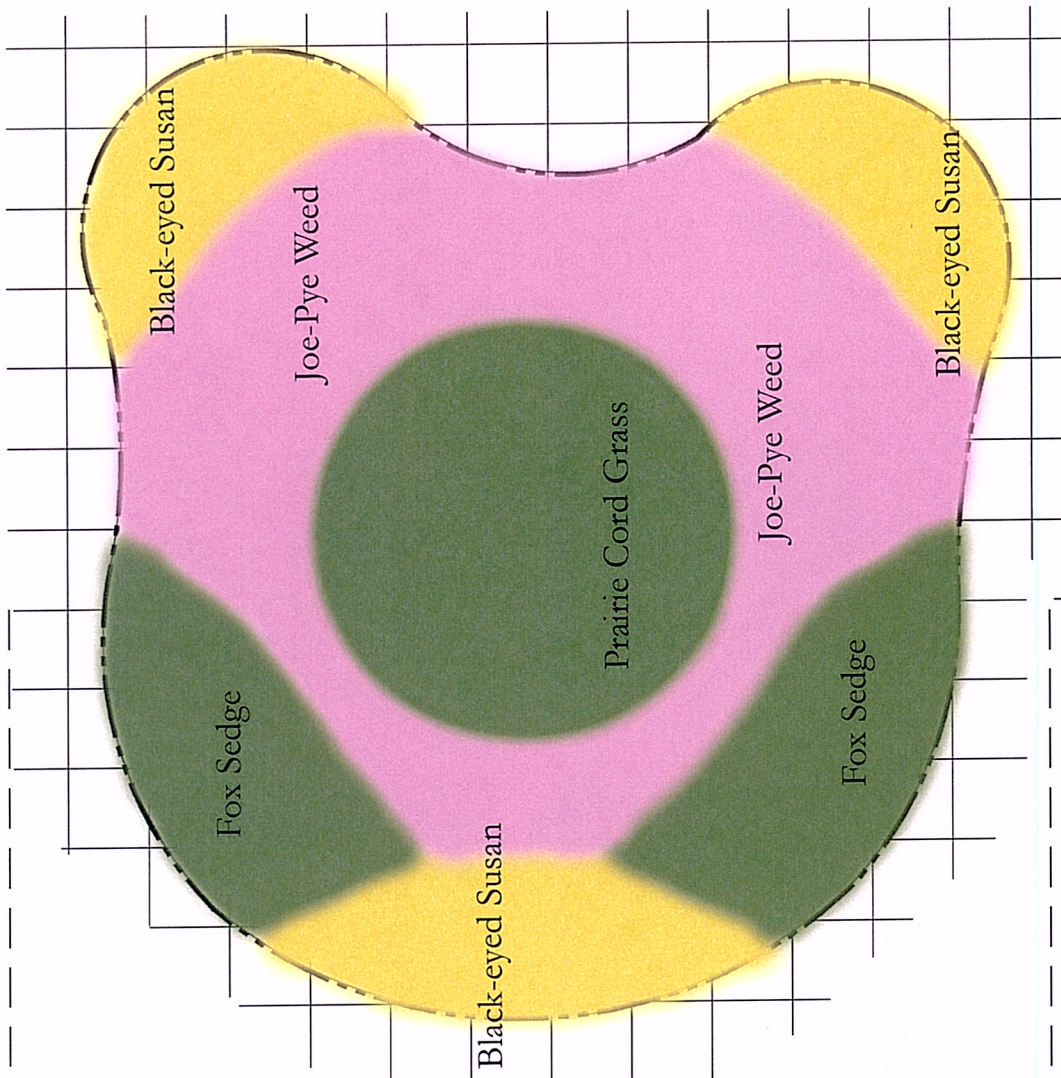
6.2.i - Laker Turf Building - Rain Garden #1 Plant Layout

Base Map created by Integrated Architecture

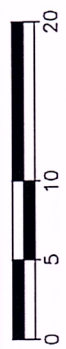
Amended by Jerad Crump January 30, 2009 version 1.1

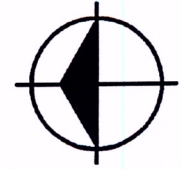
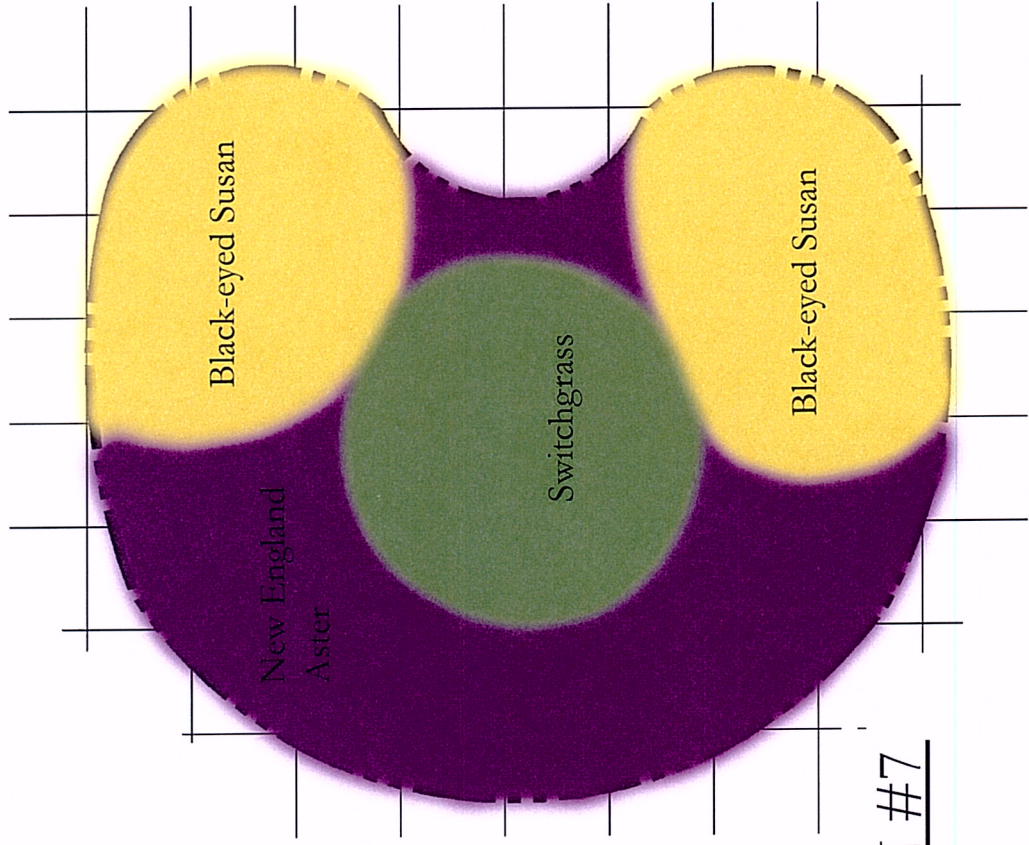


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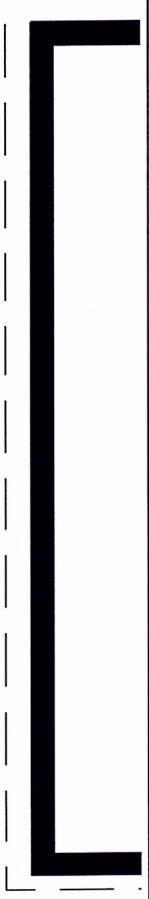


RAIN GARDEN #2





RAIN GARDEN #7



Mackinac Hall 2008 Addition

Vegetated Roof

Plant Species	Total Mix Quantity
Sedum acre 'Aureum'	Approx. 6500 sq. ft.
Sedum album 'Coral Carpet'	
Sedum floriferum 'Welhenstephaner Gold'	
Sedum reflexum	
Sedum rupestre 'Angelina'	
Sedum sexangulare	
Sedum spurium 'Dragon's Blood'	
Sedum spurium 'Voo Doo'	
Sedum stefco	

Tree Plant List

Plant Species	Common Name	Quantity
<i>Acer sp</i>	Ornamental Maple	4
<i>Amelanchier x grandiflora 'Autumn Brilliance'</i>	Autumn Brilliance Serviceberry	1
<i>Betula nigra</i>	River Birch	3
<i>Carpinus betulus 'Fastigiata'</i>	Columnar European Hornbeam	4
<i>Cladrastis kentukea</i>	American Yellowwood	2
<i>Cornus kousa</i>	Kousa Dogwood	1
<i>Fagus sylvatica 'Dawyck'</i>	Columnar European Beech	1
<i>Malus x 'Sugar Tyme'</i>	Sugar Tyme Crabapple	6
<i>Abies concolor</i>	Concolor Fir	3

Shrub Plant List

Plant Species	Common Name	Quantity
<i>Caryopteris x clandonensis 'Blue Mist'</i>	Blue Mist Caryopteris	13
<i>Clethra alnifolia 'Hummingbird'</i>	Hummingbird Summersweet	18
<i>Chamaecyparis pisifera 'Boulevard'</i>	Boulevard False Cypress	0
<i>Cornus stolonifera 'Cardinal'</i>	Cardinal Red Twig Dogwood	9
<i>Euonymus alata 'Compacta'</i>	Dwarf Burning Bush	19
<i>Fothergilla major 'Mount Airy'</i>	Bottlebrush	22
<i>Hydrangea paniculata 'Tardiva'</i>	Tardiva Hydrangea	13
<i>Hydrangea quercifolia 'Snowflake'</i>	Snowflake Oakleaf Hydrangea	13
<i>Itea virginica 'Henry's Garnet'</i>	Henry's Garnet Sweetspire	50
<i>Microbiota decussata</i>	Russian Cypress	20
<i>Picea abies 'Nidiformis'</i>	Birdnest Spruce	7

<i>Spirea x bumalda</i> 'Goldflame'	Goldflame Spirea	18
<i>Taxus x media</i> 'Everlow'	Everlow Japanese Yew	19
<i>Thuja occidentalis</i> 'Smaragd'	Emerald Green Arbovitae	13
<i>Viburnum x pragense</i>	Prague Viburnum	1

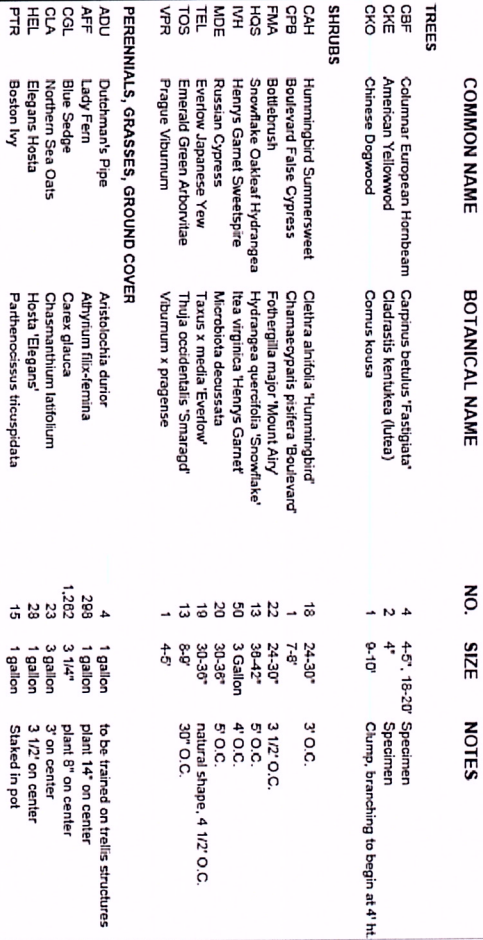
Perennial Plant List

Plant Species	Common Name	Quantity
<i>Aristolochia durion</i>	Dutchman's Pipe	4
<i>Astilbe x japonica</i> 'Ellie'	Mainz Astilbe	51
<i>Athyrium filix-femina</i>	Lady Fern	298
<i>Carex glauca</i>	Blue Sedge	1262
<i>Chasmanthium latifolium</i>	Northern Sea Oats	23
<i>Hemerocallis</i> 'Gentle Shepherd'	Gentle Shepherd Daylily	21
<i>Heuchera sanguinea</i> 'Snow Angel'	Snow Angel Coral Bells	31
<i>Hosta</i> 'August Moon'	August Moon Hosta	42
<i>Hosta</i> 'Blue Angel'	Blue Angel Hosta	27
<i>Hosta</i> 'Elegans'	Elegans Hosta	28
<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Dwarf Fountain Grass	45
<i>Miscanthus sinensis</i> 'Adagio'	Adagio Japanese Silver Grass	22
<i>Parthenocissus tricuspidata</i>	Boston Ivy	15



Base Map created by Fountainhead Gardens

i4Group, Inc.



NOTES:

PROJECT:



Allendale, MI

MAK 2008

COURTYARD GARDEN

SHEET TITLE:

PLANTING PLAN

DESIGN BY:

Chris Heiler

DATE:

11/26/07

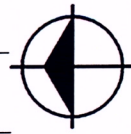
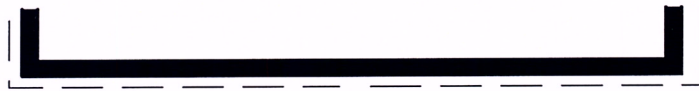
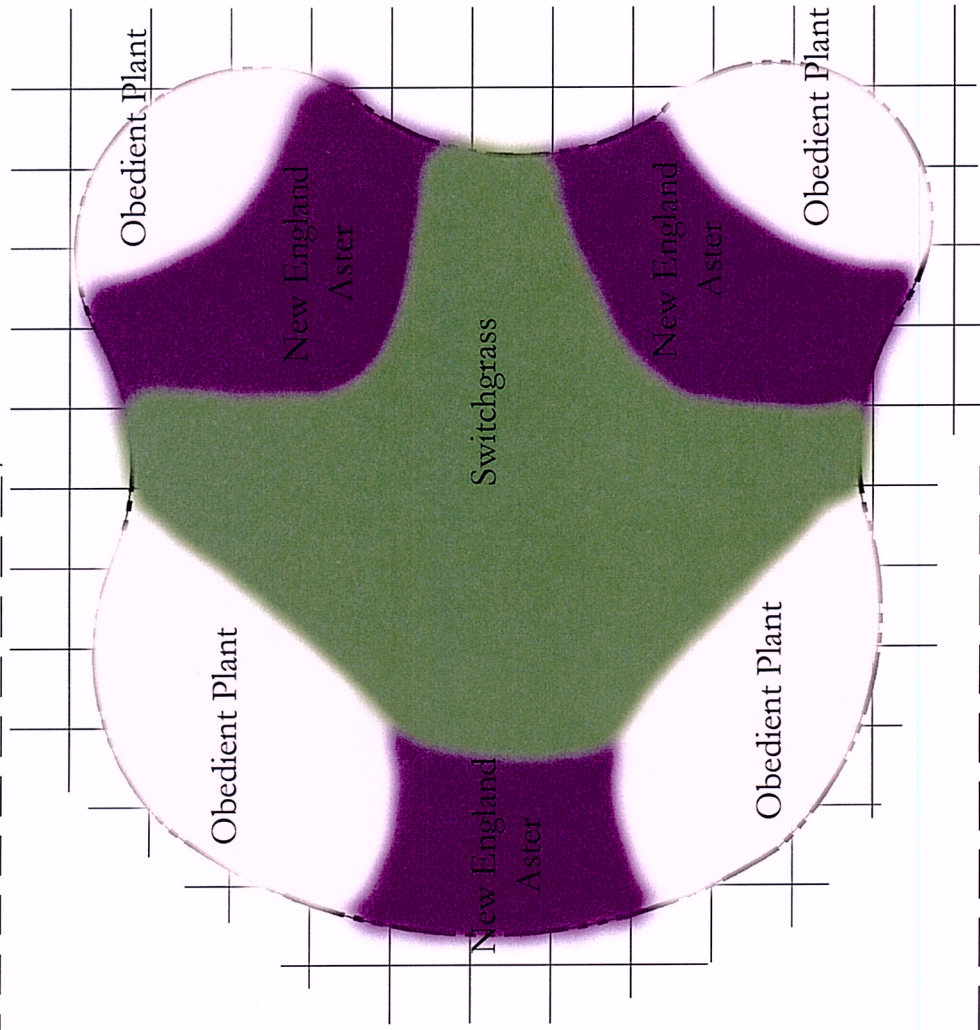
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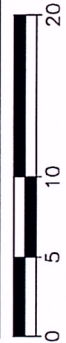


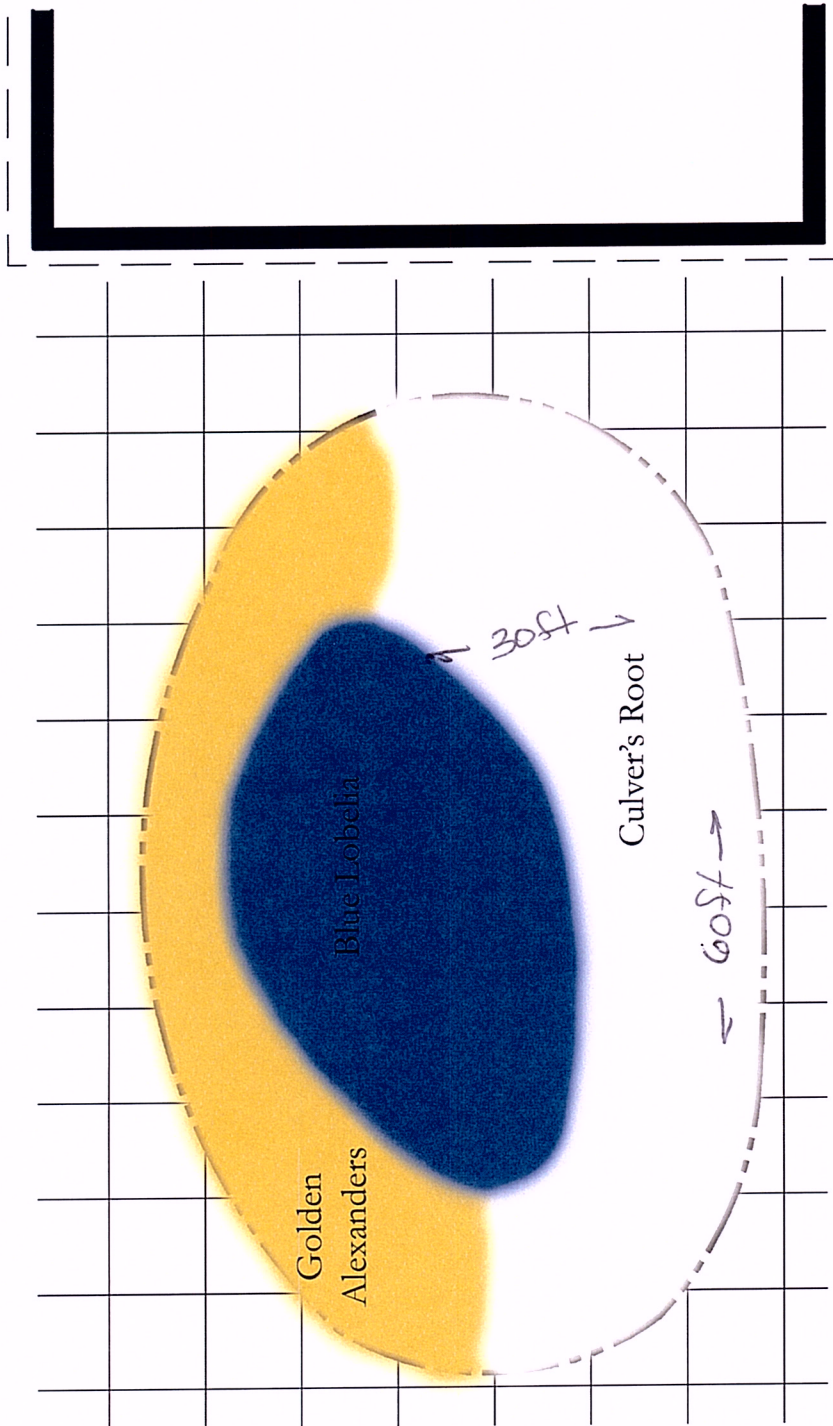
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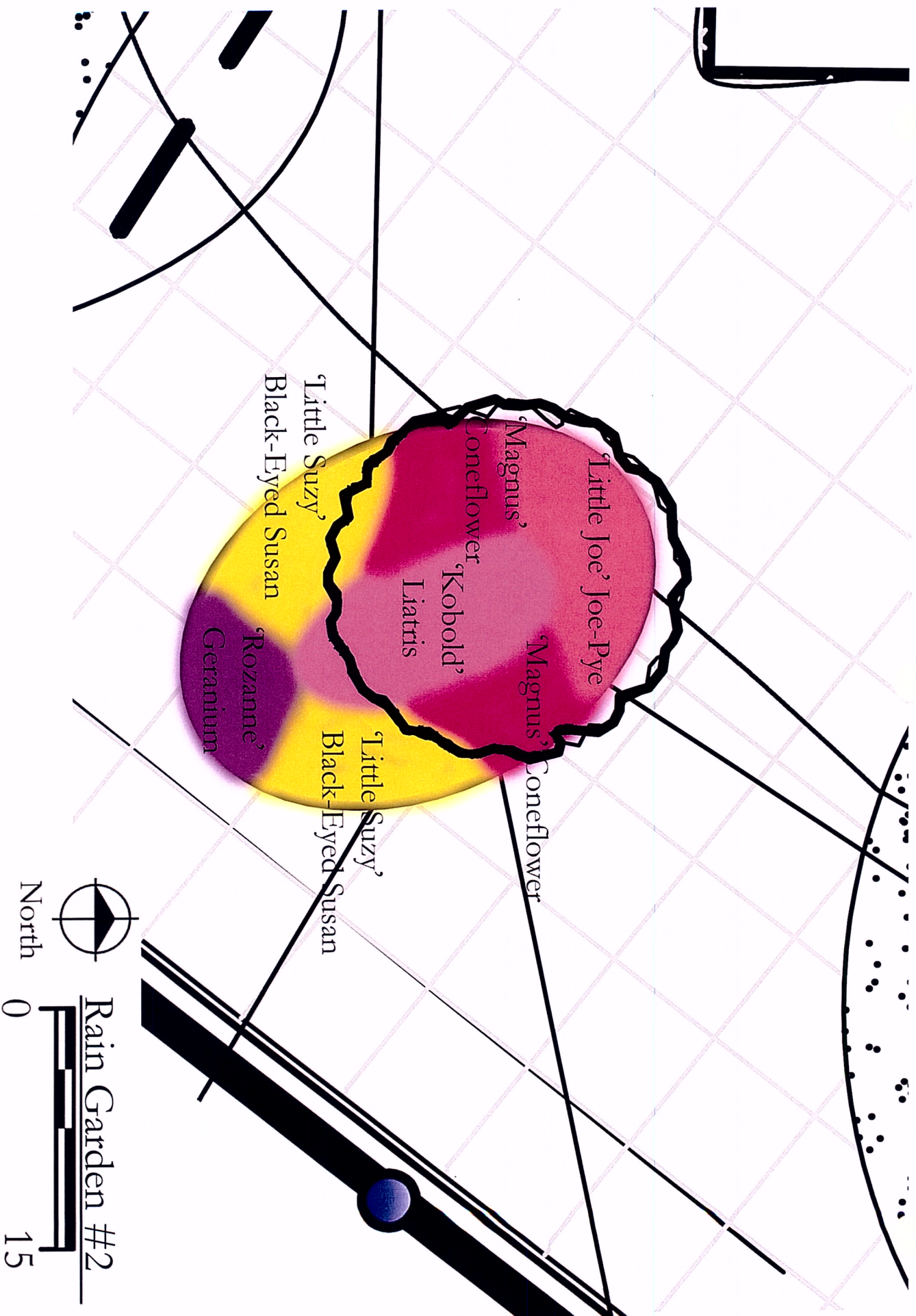
RAIN GARDEN #3





RAIN GARDEN #4





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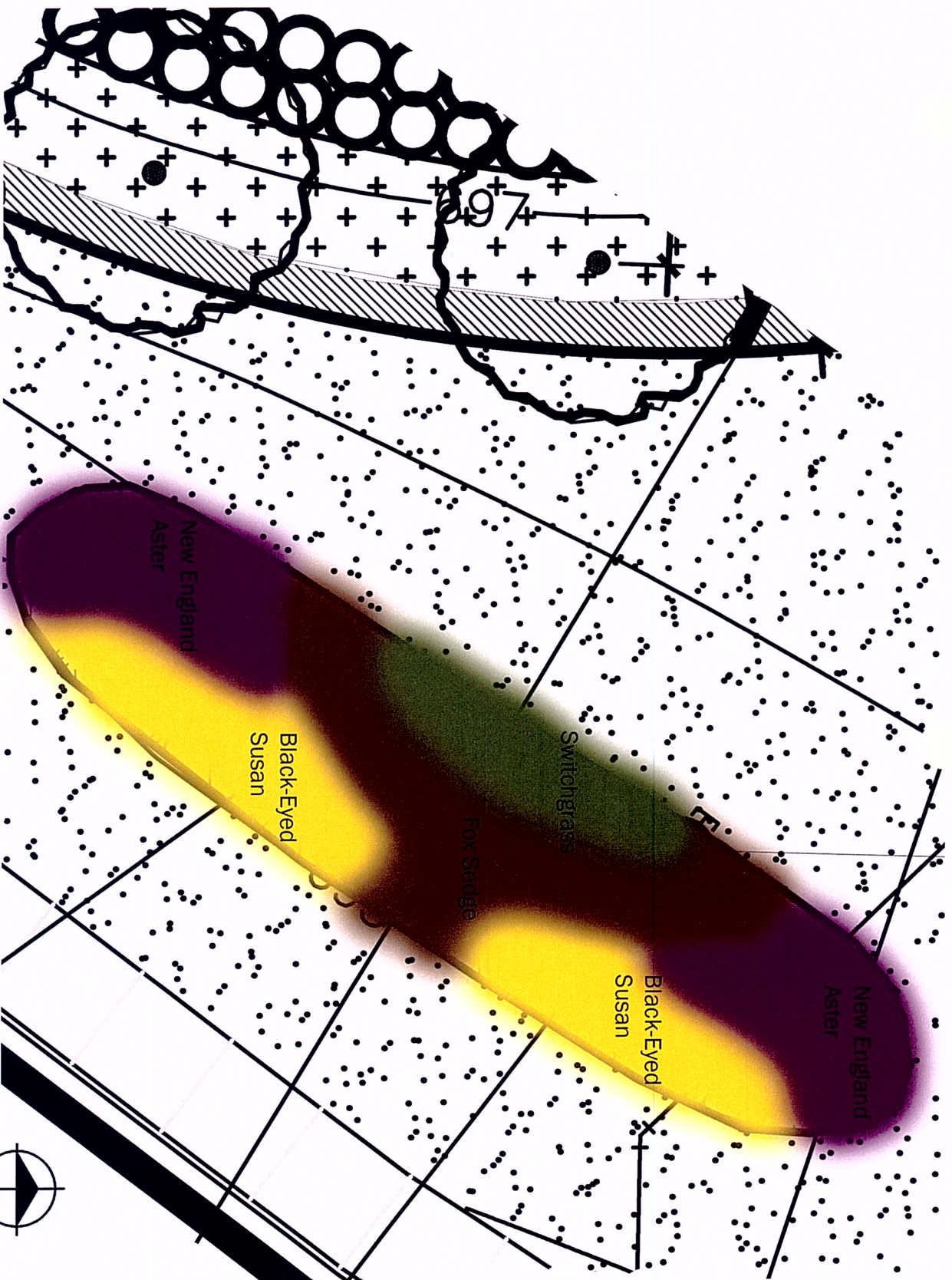
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6.2.ii - Laker Turf Building - Rain Garden #2 Plant Layout

Base Map created by Integrated Architecture

Amended by Jerad Crumm, October 2, 2009 version 1.2





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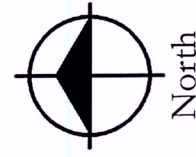
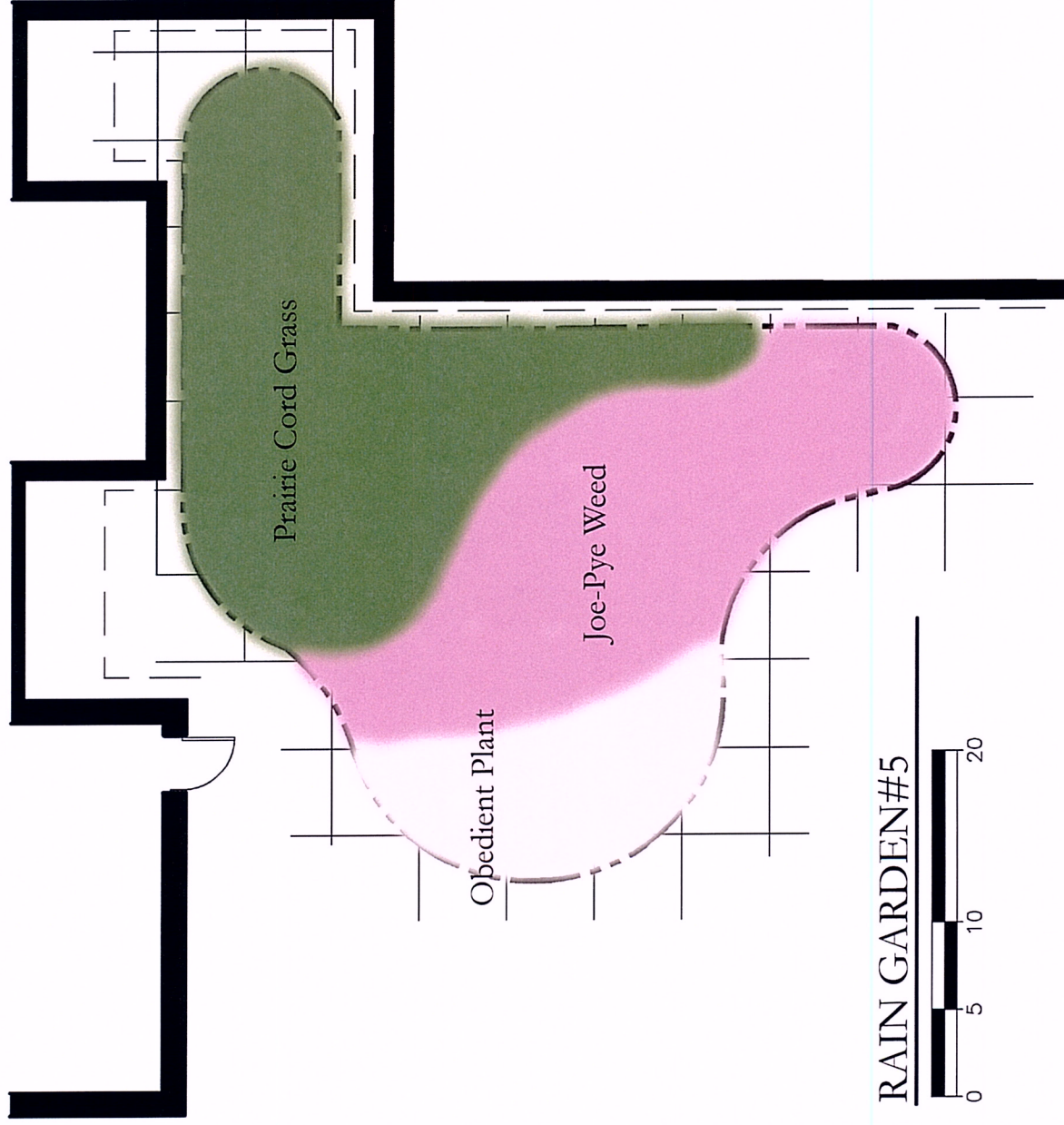
6.2.ii - Laker Turf Building - Rain Garden #3 Plant Layout

Base Map created by Integrated Architecture

Amended hv Jared Grimm Fahriarv 7 2009 version 1 1

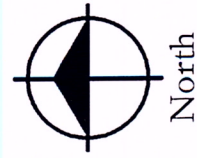
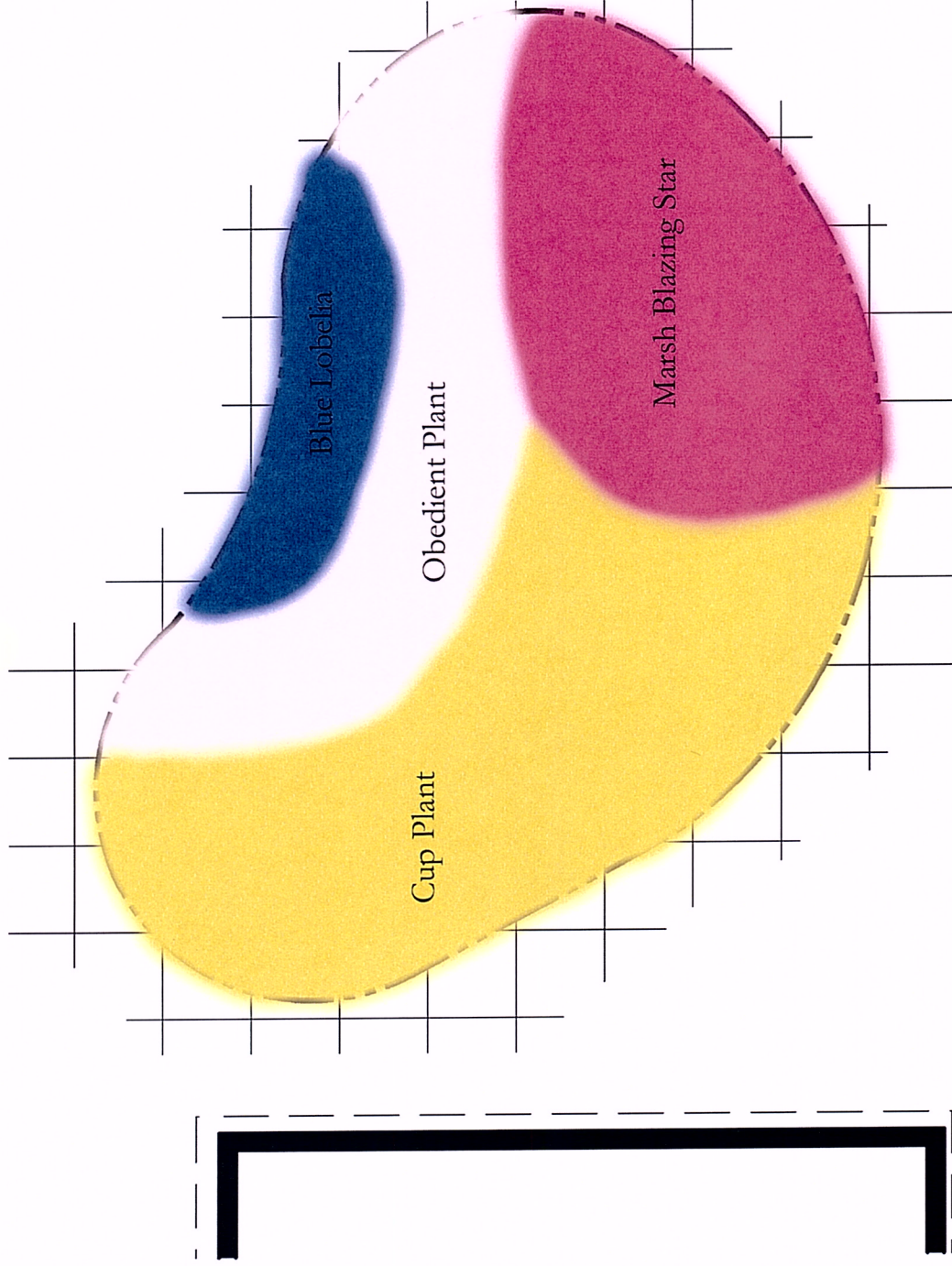


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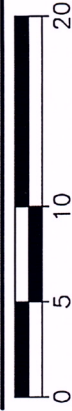


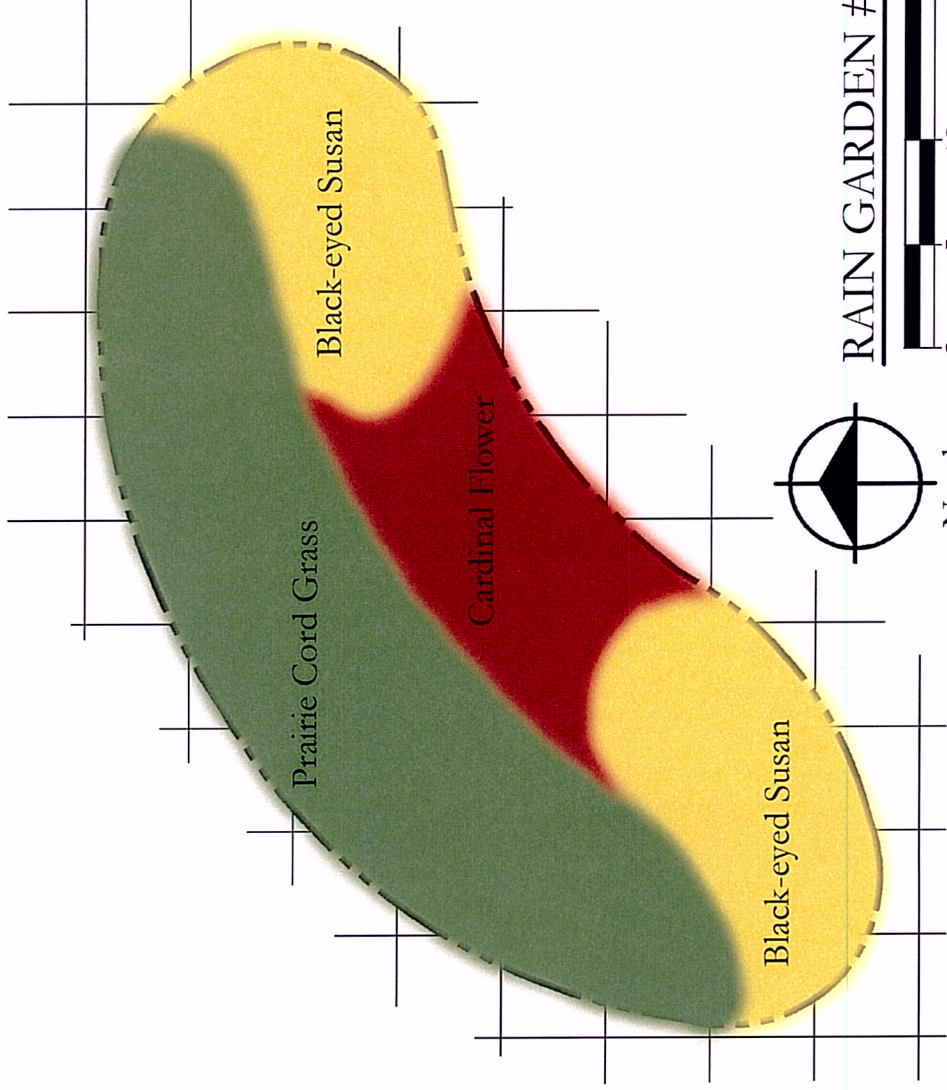
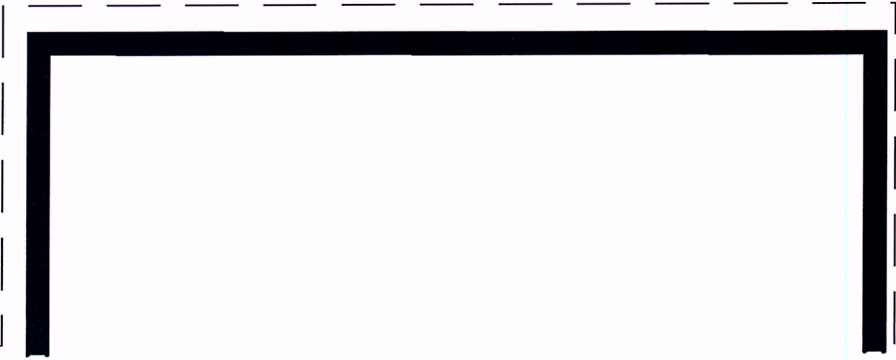
RAIN GARDEN#5





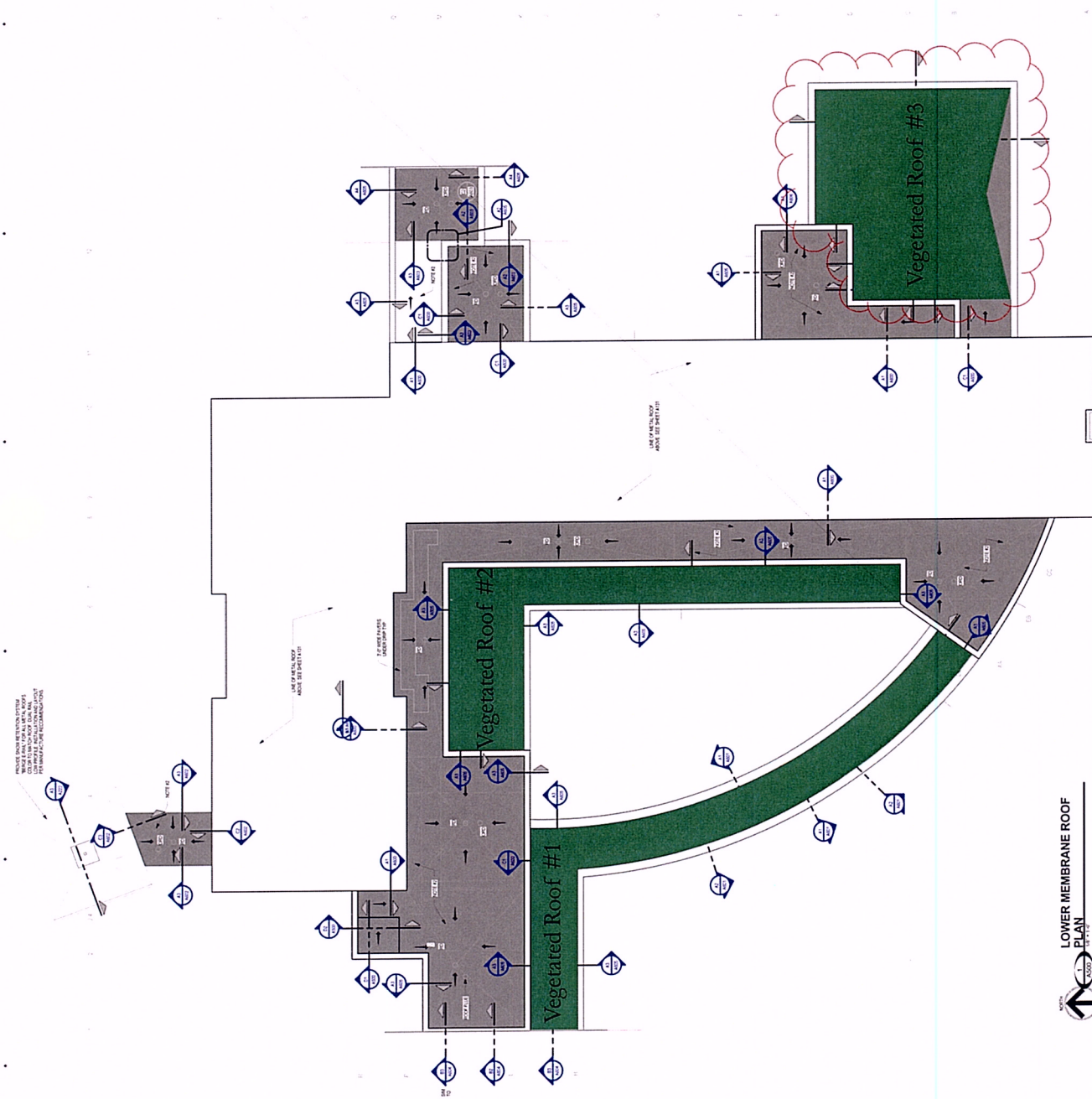
RAIN GARDEN #6





RAIN GARDEN #8





LOWER MEMBRANE ROOF
PLAN
A500
1/4" = 1'-0"

Niemeyer Honors Hall and Living Centers

Rain Garden #1

Plant Species	Common Name	Plug Quantity
<i>Helenium autumnale</i>	Sneezeweed	228
<i>Lobelia cardinalis</i>	Cardinal Flower	114
<i>Panicum virgatum</i>	Switchgrass	304

Rain Garden #2

Plant Species	Common Name	Plug Quantity
<i>Carex vulpinoidea</i>	Fox Sedge	226
<i>Eupatorium maculatum</i>	Joe-Pye Weed	570
<i>Rudbeckia hirta</i>	Black-Eyed Susan	228
<i>Spartina pectinata</i>	Prairie Cordgrass	226

Rain Garden #3

Plant Species	Common Name	Plug Quantity
<i>Aster novae-angliae</i>	New England Aster	342
<i>Panicum virgatum</i>	Switchgrass	418
<i>Physostegia virginiana</i>	Obedient Plant	342

Rain Garden #4

Plant Species	Common Name	Plug Quantity
<i>Lobelia siphilitica</i>	Blue Lobelia	228
<i>Veronicastrum virginicum</i>	Culver's Root	266
<i>Zizia aurea</i>	Golden Alexanders	190

Rain Garden #5

Plant Species	Common Name	Plug Quantity
<i>Eupatorium maculatum</i>	Joe-Pye Weed	190
<i>Physostegia virginiana</i>	Obedient Plant	114
<i>Spartina pectinata</i>	Prairie Cordgrass	228

Rain Garden #6

Plant Species	Common Name	Plug Quantity
<i>Liatris spicata</i>	Marsh Blazing Star	228
<i>Lobelia siphilitica</i>	Blue Lobelia	76
<i>Physostegia virginiana</i>	Obedient Plant	152
<i>Silphium perfoliatum</i>	Cup Plant	342

Rain Garden #7

Plant Species	Common Name	Plug Quantity
<i>Aster novae-angliae</i>	New England Aster	228
<i>Panicum virgatum</i>	Switchgrass	114
<i>Rudbeckia hirta</i>	Black-Eyed Susan	190

Rain Garden #8

Plant Species	Common Name	Plug Quantity
<i>Lobelia cardinalis</i>	Cardinal Flower	114
<i>Rudbeckia hirta</i>	Black-Eyed Susan	152
<i>Spartina pectinata</i>	Prairie Cordgrass	228

Vegetated Roof

Plant Species	Common Name	Quantity
<i>Sedum spp.</i>	Sedum	Approx. 3115 sq. ft.

Low Maintenance Seed Mixture

Plant Species	Percent of Mixture
SR3200 Blue Fescue	15%
Dawson Slender Red Fescue	15%
SR5210 Creeping Red Fescue	20%
SR5100 Chewings Fescue	15%
Sandpiper Chewings Fescue	10%
Scaldis Hard Fescue	10%
SR3100 Hard Fescue	10%
Cynthia Kentucky Bluegrass	5%

Woodland Edge Seed Mixture

Plant Species	Common Name
<i>Allium cernuum</i>	Nodding Wild Onion
<i>Anemone virginiana</i>	Tall Thimbleweed
<i>Aquilegia canadensis</i>	Wild Columbine
<i>Asclepias tuberosa</i>	Butterflyweed
<i>Campanula americana</i>	Tall Bellflower
<i>Desmodium canadense</i>	Showy Tick-Trefoil
<i>Eupatorium rugosum</i>	Snakeroot
<i>Euphorbia corollata</i>	Flowering Spurge
<i>Geranium maculatum</i>	Wild Geranium
<i>Helianthus divaricatus</i>	Woodland Sunflower
<i>Hystrix patula</i>	Bottlebrush Grass
<i>Lupinus perennis</i>	Wild Lupine
<i>Monarda fistulosa</i>	Wild Bergamot
<i>Penstemon digitalis</i>	Beardtongue
<i>Schizachyrium scoparium</i>	Little Bluestem
<i>Senecio obovatus</i>	Round-Leaved Ragwort
<i>Solidago caesia</i>	Bluestem Goldenrod
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue

Tree Plant List

Code	Plant Species	Common Name	Quantity
Abco	<i>Abies concolor</i>	Concolor Fir	3
Acru	<i>Acer rubrum</i>	Red Maple	2
AcruB	<i>Acer rubrum</i> 'Bowhall'	Bowhall Red Maple	9
Acsa	<i>Acer saccharum</i>	Sugar Maple	2
Aegl	<i>Aesculus glabra</i>	Ohio Buckeye	1
Amca	<i>Amelanchier canadensis</i>	Serviceberry	2
Beni	<i>Betula nigra</i>	River Birch	2
Caca	<i>Carpinus carolinia</i>	American Hornbeam	1
CabeC	<i>Carpinus betulus</i> 'Columnaris'	Fastigate Euro. Hornbeam	4
Ceca	<i>Cercis canadensis</i>	Eastern Redbud	6
Cofl	<i>Cornus florida</i>	Flowering Dogwood	2
Crph	<i>Crataegus phaenopyrum</i>	Washington Hawthorn	6
Fagr	<i>Fagus grandifolia</i>	American Beech	1
Lala	<i>Larix laricina</i>	Eastern Larch	1
Litu	<i>Liriodendron tulipifera</i>	Tulip Tree	1
Nysy	<i>Nyssa sylvatica</i>	Black Gum	1

Code	Plant Species	Common Name	Quantity
Osvi	<i>Ostrya virginiana</i>	Hop Hornbeam	1
Pigl	<i>Picea glauca</i>	White Spruce	4
Quru	<i>Quercus rubra</i>	Red Oak	1

Shrub Plant List

Code	Plant Species	Common Name	Quantity
BumiW	<i>Buxus microphylla</i> 'Wintergreen'	Wintergreen Boxwood	53
Cosel	<i>Cornus sericea</i> 'Isanti'	Isanti Red Twig Dogwood	21
EualC	<i>Euonymus alata</i> 'Compacta'	Dwarf Burning Bush	117
Havi	<i>Hamamelis virginiana</i>	Common Witch Hazel	2
Have	<i>Hamamelis vernalis</i>	Vernal Witch Hazel	25
Ilve	<i>Ilex verticillata</i>	Michigan Holly	6
JusaT	<i>Juniperus sabina</i> 'Tamariscifolia'	Tam Juniper	52
Mype	<i>Myrica pensylvatica</i>	Northern Bayberry	13
SpjaLP	<i>Spirea japonica</i> 'Little Princess'	Little Princess Spirea	54
ThocLG	<i>Thuja occidentalis</i> 'Little Giant'	Little Giant Arborvitae	17
Vide	<i>Viburnum dentatum</i>	Arrowwood Viburnum	23
Vile	<i>Viburnum lentago</i>	Nannyberry	19

Perennial Plant List

Code	Plant Species	Common Name	Quantity
Amhu	<i>Amsonia hubrichtii</i>	Narrow Leaf Blue Star	22
Adpe	<i>Adiantum pedatum</i>	Maidenhair Fern	75
Ange	<i>Andropogon gerardii</i>	Big Bluestem	11
Atfi	<i>Athyrium filix-femina</i>	Lady Fern	16
Blsp	<i>Blechnum spicant</i>	Deer Fern	33
Drma	<i>Dryopteris marginalis</i>	Leatherleaf Woodfern	37
Drin	<i>Dryopteris intermedia</i>	Fancy Fern	13
EcpuLG	<i>Echinacea purpurea</i> 'Little Giant'	Little Giant Purple Coneflower	30
HeCA	<i>Hemerocallis</i> 'Chicago Apache'	Chigaco Apache Daylily	496
HeSt	<i>Hemerocallis</i> 'Stella D'Oro'	Stella D'Oro Daylily	129
HypaH	<i>Hypericum patula</i> 'Hidcote'	Golden Cup St. John's Wort	95
Ircr	<i>Iris cristata</i>	Crested Iris	344
Loca	<i>Lobelia cardinalis</i>	Cardinal Flower	12
Mast	<i>Matteuccia struthiopteris</i> var. <i>pensylvanica</i>	Ostrich Fern	26
Onse	<i>Onoclea sensibilis</i>	Sensitive Fern	7
Osre	<i>Osmunda regalis</i>	Royal Fern	10
Osci	<i>Osmunda cinnamomea</i>	Cinnamon Fern	57
Peal	<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Dwarf Fountain Grass	62

