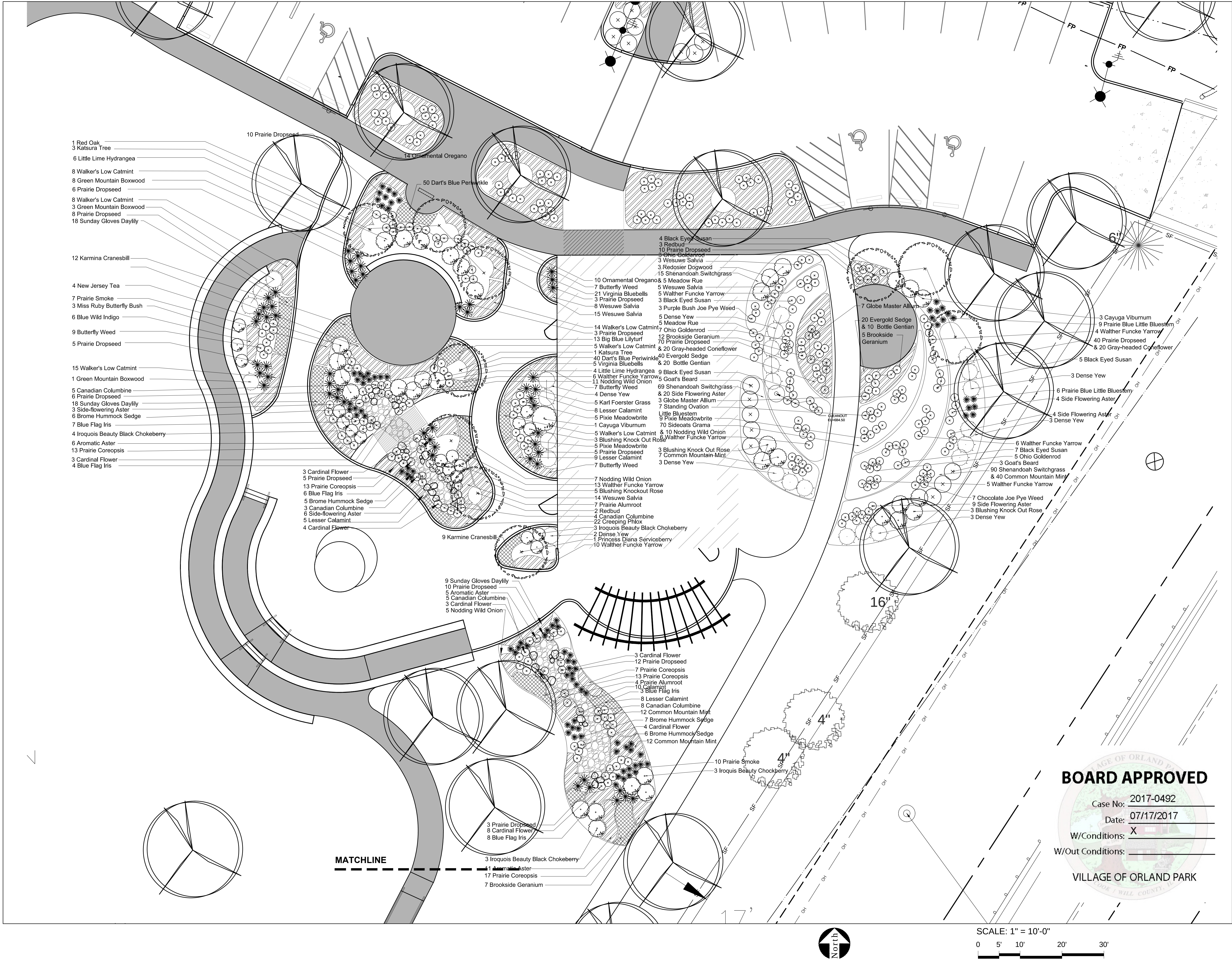




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PROJECT
**Orland Park
Nature Center**
13951 LaGrange Road
Orland Park, IL 60462

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SHEET TITLE
**Plaza
Enlargement
Landscape Plan**

SHEET NUMBER
6.1

DRAW / REVISION		
MK/LD	Issued for Permit	9 June 2017
NOT FOR CONSTRUCTION		

Project Number 490
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PLOT: UPLAND 2013

SEED MIXES

Wet Meadow Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Asclepias incarnata</i>	Swamp Milkweed	0.154
<i>Bidens cernua</i>	Nodding Burnmarigold	0.038
<i>Boltonia asteroides</i>	False Aster	0.308
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.154
<i>Carex annectens xanthocarpa</i>	Yellow-fruited Sedge	0.154
<i>Carex bebbii</i>	Bebbs Sedge	0.308
<i>Carex comosa</i>	Bottlebrush Sedge	0.231
<i>Carex cristatella</i>	Crested Oval Sedge	0.077
<i>Carex molesta</i>	Round Headed Sedge	0.231
<i>Carex projecta</i>	Necklace Sedge	0.154
<i>Carex scoparia</i>	Pointed Broom Sedge	0.308
<i>Carex vulpinoidea</i>	Fox Sedge	0.615
<i>Coreopsis tripteris</i>	Tall Coreopsis	0.077
<i>Eleocharis erythropoda</i>	Redrooted Spikerush	0.077
<i>Eleocharis obtusa</i>	Blunt Spike Rush	0.077
<i>Elymus canadensis</i>	Canada Rye	1.230
<i>Elymus virginicus</i>	Virginia Rye	2.460
<i>Eupatorium perfoliatum</i>	Thoroughwort	0.038
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	0.038
<i>Helenium autumnale</i>	Sneezeweed	0.154
<i>Iris virginica shrevei</i>	Blue Flag	0.246
<i>Juncus dudleyi</i>	Dudleys Rush	0.038
<i>Juncus effusus</i>	Soft Rush	0.038
<i>Juncus torreyi</i>	Torreys Rush	0.038
<i>Leersia oryzoides</i>	Rice Cut Grass	0.154
<i>Liatris spicata</i>	Spiked Gayfeather	0.154
<i>Lycopus americanus</i>	Common Water Horehound	0.077
<i>Monarda fistulosa</i>	Bergamont	0.154
<i>Napaea dioica</i>	Glade Mallow	0.154
<i>Oligoneuron riddellii</i>	Riddells Goldenrod	0.154
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	0.308
<i>Penstemon digitalis</i>	Foxglove Beardtongue	0.154
<i>Penthorum sedoides</i>	Ditch Stonecrop	0.038
<i>Physostegia virginiana</i>	False Dragonhead	0.077
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.154
<i>Ratibida pinnata</i>	Yellow Coneflower	0.154
<i>Rudbeckia hirta</i>	Black Eyed Susan	0.615
<i>Rudbeckia lancinata</i>	Wild Golden Glow	0.025
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower	0.231
<i>Scirpus atrovirens</i>	Dark Green Rush	0.461
<i>Scirpus validus</i>	Great Bulrush	0.308
<i>Silphium perfoliatum</i>	Cup Plant	0.231
<i>Solidago gigantea</i>	Late Goldenrod	0.077
<i>Spartina pectinata</i>	Prairie Cord Grass	0.615
<i>Symphyotrichum lanceolatum</i>	White Panicle Aster	0.038
<i>Symphyotrichum novae-angliae</i>	New England Aster	0.154
<i>Verbena hastata</i>	Blue Vervain	0.615
<i>Vernonia fasciculata</i>	Common Ironweed	0.154
<i>Veronicastrum virginicum</i>	Culver's Physic	0.018
<i>Zizia aurea</i>	Golden Alexander	0.077
TOTAL		12.594

Low Profile Prairie Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Allium cernuum</i>	Nodding Wild Onion	0.400
<i>Baptisia lactea</i>	White Indigo	0.063
<i>Bouteloua curtipendula</i>	Side Oats Gramma	3.000
<i>Carex annectens</i>	Yellow-fruited Sedge	0.063
<i>Carex bicknellii</i>	Bicknells Sedge	0.125
<i>Carex brevior</i>	Shorter Sedge	0.125
<i>Carex molesta</i>	Field Oval Sedge	0.125
<i>Chamaecrista fasciculata</i>	Partridge Pea	0.125
<i>Coreopsis palmata</i>	Prairie Coreopsis	0.100
<i>Dalea pururea</i>	Purple Prairie Clover	0.063
<i>Desmodium canadense</i>	Showy Tick Trefoil	0.400
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.281
<i>Echinacea purpurea</i>	Purple Coneflower	0.500
<i>Elymus canadensis</i>	Canada Wild Rye	2.000
<i>Eryngium yuccifolium</i>	Rattlesnake Master	0.100
<i>Helioopsis helianthoides</i>	Early Sunflower	0.125
<i>Hypericum ascyron</i>	Great St John'swort	0.125
<i>Lespedeza capitata</i>	Roundhead Bushclover	0.125
<i>Liatris aspera</i>	Button Blazing Star	0.125
<i>Liatris pycnostachya</i>	Prairie Blazingstar	0.188
<i>Monarda fistulosa</i>	Bergamont	0.031
<i>Oligoneuron riddellii</i>	Riddells Goldenrod	0.125
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	0.125
<i>Parthenium integrifolium</i>	Wild Quinine	0.188
<i>Penstemon digitalis</i>	Foxglove Beardtongue	0.125
<i>Petalostemum purpureum</i>	Purple Prairie Clover	0.500
<i>Pycnanthemum tenuifolium</i>	Slender Mt Mint	0.063
<i>Ratibida pinnata</i>	Yellow Coneflower	0.125
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.500
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower	0.125
<i>Schizachyrium scoparium</i>	Little Bluestem	4.000
<i>Silphium terebinthinaceum</i>	Prairie Dock	0.030
<i>Sporobolus heterolepis</i>	Prairie Dropseed	0.250
<i>Symphyotrichum laeve</i>	Smooth Blue Aster	0.063
<i>Symphyotrichum novae-angliae</i>	New England Aster	0.063
<i>Tradescantia ohiensis</i>	Ohio Spiderwort	0.125
<i>Vernonia missurica</i>	Missouri Ironweed	0.063
<i>Veronicastrum virginicum</i>	Culvers Physic	0.006
<i>Zizia aurea</i>	Golden Alexanders	0.400
TOTAL		15.065

Wet to Mesic Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Asclepias incarnata</i>	Swamp Milkweed	0.125
<i>Asclepias syriaca</i>	Common Milkweed	0.125
<i>Bouteloua curtipendula</i>	Side Oats Gramma	1.500
<i>Carex annectens xanthocarpa</i>	Small Yellow Fox Sedge	0.125
<i>Carex bebbii</i>	Bebb's Sedge	0.125
<i>Carex brevior</i>	Shorter Sedge	0.125
<i>Carex cristatella</i>	Crested Sedge	0.125
<i>Carex normalis</i>	Normal Sedge	0.125
<i>Carex scoparia</i>	Pointed Broom Sedge	0.125
<i>Carex vulpinoidea</i>	Fox Sedge	0.125
<i>Coreopsis tripteris</i>	Tall Coreopsis	0.125
<i>Dalea pururea</i>	Purple Prairie Clover	0.250
<i>Desmodium canadense</i>	Showy Tick Trefoil	0.150
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.375
<i>Echinacea purpurea</i>	Purple Coneflower	0.500
<i>Elymus virginicus</i>	Virginia Wild Rye	1.500
<i>Eryngium yuccifolium</i>	Rattlesnake Master	0.500
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	0.250
<i>Eupatorium perfoliatum</i>	Thoroughwort	0.063
<i>Glyceria striata</i>	Fowl Manna Grass	0.250
<i>Helenium autumnale</i>	Sneezeweed	0.188
<i>Helioopsis helianthoides</i>	Early Sunflower	0.250
<i>Iris virginica shrevei</i>	Blue Flag	0.125
<i>Juncus dudleyi</i>	Dudley's Rush	0.031
<i>Juncus torreyi</i>	Torreys Rush	0.063
<i>Leersia oryzoides</i>	Rice Cut Grass	1.000
<i>Liatris pycnostachya</i>	Prairie Blazing Star	0.031
<i>Liatris spicata</i>	Marsh Blazing Star	0.031
<i>Lobelia siphilitica</i>	Great Blue Lobelia	0.031
<i>Lycopus americanus</i>	Water Horehound	0.063
<i>Monarda fistulosa</i>	Bergamont	0.250
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	0.125
<i>Panicum virgatum</i>	Switch Grass	1.000
<i>Physostegia virginiana</i>	False Dragonhead	0.063
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.160
<i>Ratibida pinnata</i>	Yellow Coneflower	0.250
<i>Rudbeckia hirta</i>	Black-Eyed Susan	0.250
<i>Rudbeckia lancinata</i>	Wild Golden Glow	0.063
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower	0.250
<i>Schizachyrium scoparium</i>	Little Bluestem	1.500
<i>Scirpus atrovirens</i>	Dark Green Rush	0.125
<i>Silphium laciniatum</i>	Compass Plant	0.125
<i>Spartina pectinata</i>	Cord Grass	0.250
<i>Symphyotrichum laeve</i>	Smooth Blue Aster	0.125
<i>Symphyotrichum novae-angliae</i>	New England Aster	0.250
<i>Symphyotrichum oolentangiense</i>	Sky Blue Aster	0.125
<i>Verbena hastata</i>	Blue Vervain	0.250
<i>Vernonia fasciculata</i>	Common Ironweed	0.063
<i>Veronicastrum virginicum</i>	Culver's Root	0.063
<i>Zizia aurea</i>	Golden Alexander	0.063
TOTAL		13.751

Open Savanna Seed Mix		
Scientific Name	Common Name	Lbs./Acre
<i>Allium canadense</i>	Wild Onion	0.200
<i>Allium cernuum</i>	Nodding Wild Onion	0.200
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	0.071
<i>Aster lateriflorus</i>	Side-flowering Aster	0.071
<i>Campanula americana</i>	Tall Bellflower	0.141
<i>Carex blanda</i>	Common Wood Sedge	0.071
<i>Carex grisea</i>	Wood Gray Sedge	0.283
<i>Carex normalis</i>	Spreading Oval Sedge	0.848
<i>Carex rosea</i>	Curly-styled Wood Sedge	0.071
<i>Carex sparganioides</i>	Loose-headed Bracted Sedge	0.141
<i>Carex sprengelii</i>	Long-beaked Sedge	0.071
<i>Carex tenera</i>	Narrow-leaved Oval Sedge	0.141
<i>Cinna arundinacea</i>	Common Wood Reed	0.283
<i>Dodecatheon meadia</i>	Shooting Star	0.071
<i>Echinacea pallida</i>	Pale Purple Coneflower	0.281
<i>Elymus canadensis</i>	Canada Wild Rye	3.000
<i>Elymus riparius</i>	Riverbank Wild Rye	2.000
<i>Elymus villosus</i>	Silky Wild Rye	0.500
<i>Elymus virginicus</i>	Virginia Wild Rye	2.000
<i>Eupatorium purpureum</i>	Purple Joe-Pye Weed	0.283
<i>Geranium maculatum</i>	Wild Geranium	0.071
<i>Helianthus strumosus</i>	Pale-leaved Sunflower	0.071
<i>Helioopsis helianthoides</i>	Early Sunflower	0.125
<i>Hystrix patula</i>	Bottlebrush Grass	0.500
<i>Osmorhiza claytonii</i>	Hairy Sweet Cicely	0.283
<i>Polygonatum canaliculatum</i>	Smooth Solomon's Seal	0.283
<i>Polygonum virginianum</i>	Woodland Knotweed	0.071
<i>Rudbeckia triloba</i>	Brown-eyed Susan	0.565
<i>Schizachyrium scoparium</i>	Little Bluestem	1.000
<i>Smilacina racemosa</i>	Feathery False Solomon's Seal	0.141
<i>Solidago ulmifolia</i>	Elm-leaved Goldenrod	0.071
<i>Sphenopholis intermedia</i>	Slender Wedge Grass	0.283
<i>Vernonia altissima</i>	Smooth Tall Ironweed	0.283
<i>Zizia aurea</i>	Golden Alexanders	0.200
TOTAL		14.673

PLUG MIX

Wet Meadow Plugs: (4,900 per acre)		
Scientific Name	Common Name	Quantity
<i>Acorus calamus</i>	Sweet Flag	100
<i>Asclepias incarnata</i>	Swamp Milkweed	100
<i>Aster lateriflorus</i>	Side-Flowering Aster	100
<i>Aster puniceus</i>	Bristly Aster	100
<i>Aster umbellatus</i>	Flat-Top Aster	100
<i>Calamagrostis canadensis</i>	Blue Joint Grass	100
<i>Carex comosa</i>	Bristly Sedge	100
<i>Carex frankii</i>	Bristly Cattail Sedge	100
<i>Carex hystericina</i>	Porcupine Sedge	100
<i>Carex lupulina</i>	Common Hop Sedge	100
<i>Carex lurida</i>	Bottlebrush Sedge	100
<i>Carex pellita</i>	Broad-Leaved Woolly Sedge	100
<i>Carex stricta</i>	Tussock Sedge	100
<i>Coreopsis tripteris</i>	Tall Coreopsis	100
<i>Eleocharis ovata</i>	Blunt Spike Rush	100
<i>Eleocharis palustris</i>	Marsh Spike Rush	100
<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed	100
<i>Eupatorium perfoliatum</i>	Common Boneset	100
<i>Euthamia graminifolia</i>	Grass Leaved Goldenrod	100
<i>Glyceria striata</i>	Fowl Manna Grass	100
<i>Hibiscus laevis</i>	Halberd-Leaved Rose Mallow	100
<i>Iris virginica shrevei</i>	Blue Flag	100
<i>Juncus effusus</i>	Common Rush	100
<i>Juncus tenuis dudleyi</i>	Dudley's Rush	100
<i>Liatris spicata</i>	Marsh Blazing Star	100
<i>Lobelia cardinalis</i>	Cardinal Flower	100
<i>Lobelia siphilitica</i>	Great Blue Lobelia	100
<i>Mentha arvensis</i>	Wild Mint	100
<i>Physostegia virginiana</i>	Showy Obedient Plant	100
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	100
<i>Rudbeckia lancinata</i>	Wild Golden Glow	100
<i>Sagittaria latifolia</i>	Common Arrowhead	100
<i>Scirpus atrovirens</i>	Dark Green Rush	100
<i>Scirpus pendulus</i>	Red Bulrush	100
<i>Scirpus validus creber</i>	Soft-Stemmed Bulrush	100
<i>Senna hebecarpa</i>	Wild Senna	100
<i>Sparganium eurycarpum</i>	Common Bur Reed	100
<i>Spartina pectinata</i>	Prairie Cord Grass	100
<i>Verbena hastata</i>	Blue Vervain	100
<i>Vernonia fasciculata</i>	Ironweed	100
TOTAL PLUGS		4000

PLANT LIST

QTY	SIZE	BOTANICAL NAME	COMMON NAME	NOTES
SHADE TREES				
3	2 1/2" cal.	Carya ovata	Shagbark Hickory	B&B
4	2 1/2" cal.	Celtis occidentalis	Common Hackberry	B&B
3	2 1/2" cal.	Cladrastis kentuckea	Kentucky Yellowwood	B&B
1	2 1/2" cal.	Gymnocladus dioicus 'Expresso'	Expresso' Kentucky Coffeetree	B&B
2	2 1/2" cal.	Nyssa sylvatica	Black Tupelo	B&B
3	2 1/2" cal.	Quercus alba	White Oak	B&B
5	2 1/2" cal.	Quercus bicolor	Swamp White Oak	B&B
3	4 1/2" cal.	Quercus macrocarpa	Bur Oak	B&B
3	2 1/2" cal.	Quercus rubra	Red Oak	B&B
27				
ORNAMENTAL TREES				
1	6' Ht. Clump	Amelanchier grandiflora 'Princess Diana'	Princess Diana Serviceberry	Specimen Multi-Stem
5	6' Ht. Clump	Betula nigra	River Birch	Specimen Multi-Stem
4	2 1/2" cal.	Cercidiphyllum japonicum	Katsura Tree	
5	6' Ht. Clump	Cercis canadensis	Redbud	Specimen Multi-Stem
15				
DECIDUOUS SHRUBS				
10	24" ht. x 24" spr.	Aronia melanocarpa 'Morton'	Iroquois Beauty Black Chokeberry	
3	18" ht. x 18" spr.	Buddleia x 'Miss Ruby'	Miss Ruby Butterfly Bush	
4	18" ht. x 18" spr.	Ceanothus americanus	New Jersey Tea	
3	24" ht. x 24" spr.	Cornus sericea 'Isanti'	Redosier Dogwood	
10	24" ht. x 24" spr.	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	
14	18" ht. x 18" spr.	Rosa x 'Radyod'	Blushing Knock Out Rose	
4	24" ht. x 24" spr.	Viburnum x 'Cayuga'	Cayuga Viburnum	
48				
EVERGREEN SHRUBS				
12	18" ht. x 18" spr.	Buxus x 'Green Mountain'	Green Mountain Boxwood	
23	24" ht. x 24" spr.	Taxus x media	Dense Yew	
35				
ORNAMENTAL GRASSES				
70	#1 cont.	Bouteloua curtipendula	Sideoats Grama	
5	#1 cont.	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	
24	#1 cont.	Carex bromioides	Brome Hummock Sedge	
60	#1 cont.	Crex oshimensis 'Evergold'	Evergold Sedge	
174	#1 cont.	Panicum virgatum 'Shenandoah'	Shenandoah Red Switch Grass	
15	#1 cont.	Schizachyrium scoparium 'Prairie Blues'	Little Bluestem	
7	#1 cont.	Schizachyrium scoparium 'Standing Ovation'	Standing Ovation Little Bluestem	
263	#1 cont.	Sesleria autumnalis	Autumn Moor Grass	
266	#1 cont.	Sporobolus heterolepis	Prairie Dropseed	
884				
NATIVE PERENNIALS				
55	#1 cont.	Achillea millefolium 'Walther Funcke'	Walther Funcke Yarrow	
33	#1 cont.	Allium cernuum	Nodding Wild Onion	
8	#1 cont.	Aruncus dioicus	Goat's Beard	
30	#1 cont.	Asclepias tuberosa	Butterfly Weed	
25	#1 cont.	Aquilegia canadensis	Canadian Columbine	
6	#1 cont.	Baptisia australis	Blue Wild Indigo	
40	#1 cont.	Calamintha nepeta ssp. Nepeta	Lesser Calamint	
63	#1 cont.	Coreopsis palmata	Prairie Coreopsis	
110	#1 cont.	Dodecatheon meadia	Shooting Star	
54	#1 cont.	Echinacea 'Pixie Meadowbrite'	Pixie Meadowbrite	
3	#1 cont.	Eupatorium maculatum	Purple Bush Joe Pye Weed	
7	#1 cont.	Eupatorium rugosum 'Chocolate'	Chocolate Joe Pye Weed	
30	#1 cont.	Gentiana 'True Blue'	Bottle Gentian	
24	#1 cont.	Geranium 'Brookside'	Brookside Geranium	
21	#1 cont.	Geranium x cantabrigiense 'Karmina'	Karmina Cranesbill	
17	#1 cont.	Geum triflorum	Prairie Smoke	
45	#1 cont.	Hemerocallis 'Sunday Gloves'	Sunday Gloves Daylily	
11	#1 cont.	Heuchera richardsonii	Prairie Alumroot	
28	#1 cont.	Iris virginica shrevei	Blue Flag Iris	
28	#1 cont.	Lobelia cardinalis	Cardinal Flower	
13	#1 cont.	Liriope muscari 'Big Leaf'	Big Blue Lilyturf	
26	#1 cont.	Mertensia virginica	Virginia Bluebells	
63	#1 cont.	Nepeta racemosa 'Walker's Low'	Walker's Low Catmint	
24	#1 cont.	Organum laevigatum 'Herrenhausen'	Ornamental Oregano	
22	#1 cont.	Phlox stolonifera	Creeping Phlox	
71	#1 cont.	Pycnanthemum virginianum	Common Mountain Mint	
40	#1 cont.	Ratibida pinnata	Gray-headed Coneflower	
34	#1 cont.	Rudbeckia hirta	Black-eyed Susan	
78	#1 cont.	Salvia nemerosa 'Wesuwe'	Wesuwe Salvia	
15	#1 cont.	Solidago ohioensis	Ohio Goldenrod	
46	#1 cont.	Symphyotrichum lateriflorum	Side-flowering Aster	
22	#1 cont.	Symphyotrichum oblongifolium	Aromatic Aster	
10	#1 cont.	Thalictrum rochebruneanum	Meadow Rue	
90	#1 cont.	Vinca Minor 'dart's Blue'	Dart's Blue Periwinkle	
1192				
Bulbs				
10	#1 cont.	Allium 'Globe Master'	Globe Master Allium	