



LOCATION MAP
NOT TO SCALE

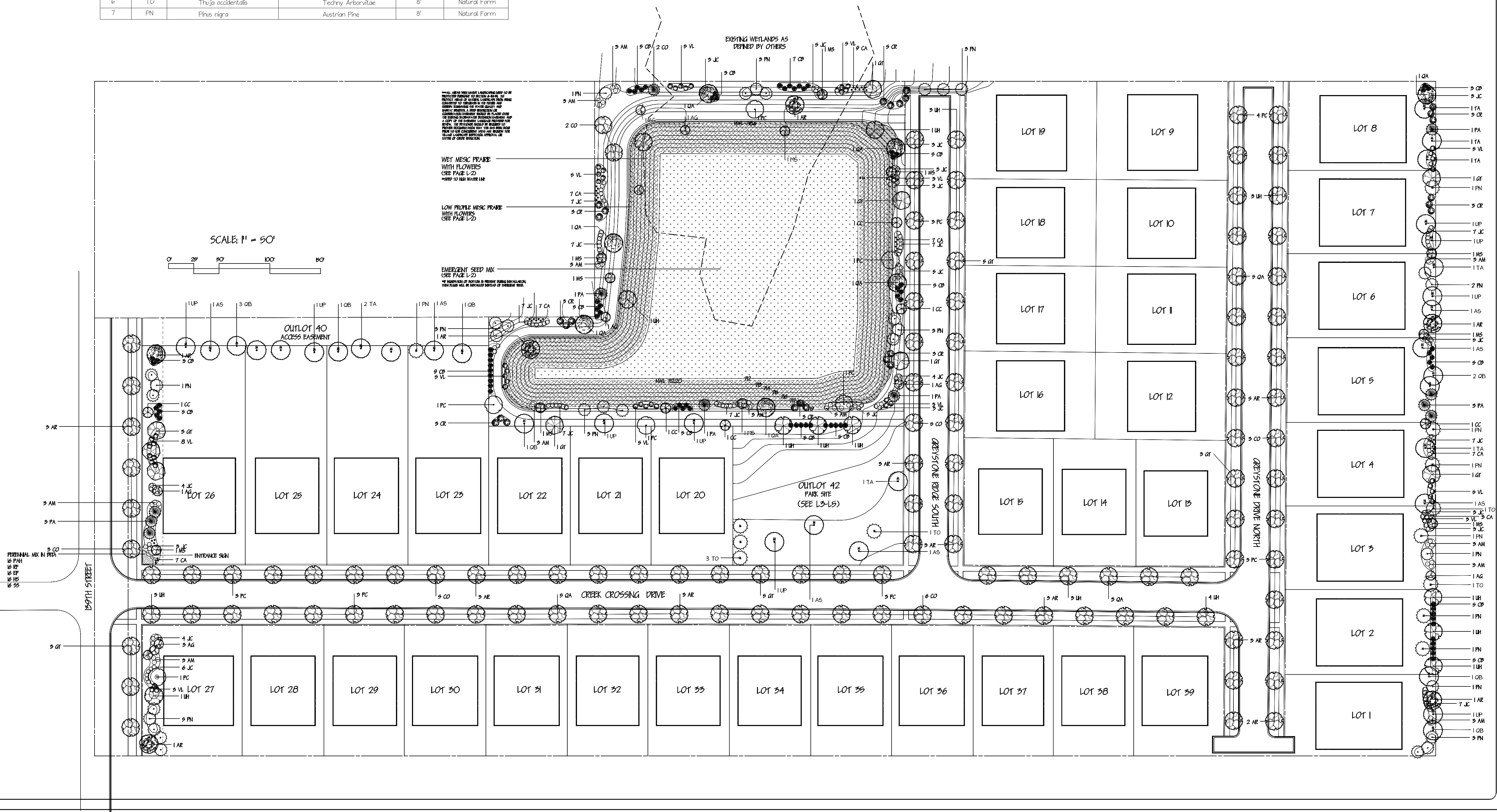
Emergent Plug List:	Common Name	Quantity
Scientific Name		
Acorus calamus	Sweet Flag	380
Alisma subcordatum	American Water Plantain	228
Iris virginica shrevei	Blue Flag Iris	380
Sagittaria latifolia	Broadleaf Arrowhead	266
Schoenoplectus acutus	Hard-Stem Bulrush	380
Schoenoplectus tabernaemontani	Soft-Stem Bulrush	380
Sparganium eurycarpum	Common Bur Reed	380
		Total 2,394

Greystone Ridge - Orland Park, Illinois
Teton Development, LLC
Project Number: 06-050
June 2, 2015

Basin Time of Inundation Table									
Storm Event (24 HR)	Time to Empty		Time Water Elevation is over 1.0'		Time Water Elevation is over 2.0'		Time Water Elevation is over 3.0'		
	Hours	Days	Hours	Days	Hours	Days	Hours	Days	
1-Year	40.5	1.7	n/a	n/a	n/a	n/a	n/a	n/a	
2-Year	67.5	2.8	n/a	n/a	n/a	n/a	n/a	n/a	
5-Year	114.0	4.7	49.5	2.1	n/a	n/a	n/a	n/a	
10-Year	159.0	6.6	99.0	4.1	n/a	n/a	n/a	n/a	
50-Year	271.5	11.3	220.5	9.2	148.5	6.2	27.0	1.1	
100-Year	285.0	11.8	233.0	9.7	160.5	6.7	45.0	1.8	

QTY	Symbol	Botanical Name	Common Name	Size	Type
SHADE TREES					
33	AR	Acer rubrum	Red Maple	2.5" cal	Single Stem
24	CO	Celtis occidentalis	Common Hackberry	2.5" cal	Single Stem
24	GT	Glenditsia triacanthos 'Skyline'	Skyline Honeylocust	2.5" cal	Single Stem
25	PC	Pyrus calleryana 'Cleveland Select'	Cleveland Select Pear	2.5" cal	Single Stem
20	QA	Quercus alba	White Oak	2.5" cal	Single Stem
24	UH	Ulmus 'Homestead'	Homestead Elm	2.5" cal	Single Stem
EVERGREEN TREES					
29	PN	Pinus Nigra	Austrian Pine	6' tall	Natural Form
11	PA	Picea abies	Norway Spruce	6' tall	Natural Form
ORNAMENTAL TREES					
5	CC	Crataegus crusgalli inermis	Thornless Cockspur Hawthorn	6' tall	Multi-Stem
10	AG	Amelanchier x grandiflora	Autumn Brilliance Serviceberry	6' tall	Multi-Stem
11	MS	Malus spp.	Japanese Flowering Crabapple	6' tall	Multi-Stem
SHRUBS					
26	CR	Cornus racemosa	Grey Dogwood	48" tall	4' o.c.
80	CB	Cornus baleyii 'Red Twig'	Redtwig Dogwood	36" tall	4' o.c.
55	VL	Viburnum lantana 'Mohican'	Mohican Viburnum	36" tall	4' o.c.
38	AM	Aronia melanocarpa	Black Chokeberry	36" tall	4' o.c.
128	JC	Juniperus chinensis 'Sea Green'	Sea Green Juniper	18" tall	3' o.c.
PERENNIALS					
50	CA	Calamagrostis x a. stricta	Karl Foerster' Feather Reed Grass	#1	2' o.c.
16	PAH	Pennisetum alopecuroides 'Hamelin'	Hamelin' Dwarf Fountain Grass	#1	2' o.c.
16	RF	Rudbeckia fulgida	Black Eyed Susan	#1	2' o.c.
16	EP	Echinacea purpurea	Purple Coneflower	#1	1.5' o.c.
16	HS	Hemerocallis spp.	Daylily	#1	1.5' o.c.
16	SS	Salvia x superba	Rose Queen' Salvia	#1	2' o.c.

TREES FOR MITIGATION					
QTY	Symbol	Botanical Name	Common Name	Size	Type
Shade Tree					
7	AS	Acer nigrabai 'Morton'	State Street Maple	4"	Single Stem
10	GB	Quercus bicolor	Swamp White Oak	4"	Single Stem
8	TA	Tilia americana 'McK Sentry'	American Sentry Linden	4"	Single Stem
9	UP	Ulmus 'Patriot'	Patriot Elm	4"	Single Stem
Evergreen Tree					
6	TO	Thuja occidentalis	Teddy Arborvitae	8'	Natural Form
7	PN	Pinus nigra	Austrian Pine	8'	Natural Form



NOTES

BEARY LANDSCAPING

15001 W. 159TH STREET
LOCKPORT, IL 60441

815-838-4100 P

818-838-3200 F

BOARD APPROVED

Case No: 2016-0290

Date: 4/18/16

W/Conditions:

X

W/Out Conditions:

VILLAGE OF ORLAND PARK



1	5/1/15	LAYOUT & PLANTING ADJUSTMENT
2	7/1/15	ADDITIONS & PARK DESIGN
3	8/21/15	ADJ. TO NORTH BUFFER
4	9/28/15	GRADING ADJ & EMERGENT PLUGS
5	10/29/15	NATIVE PLANTING ADJUSTMENT
6	2/12/16	ADD MITIGATED TREES
7	3/2/16	REVISE MITIGATED TREES

No.	Date	Description
REVISED		

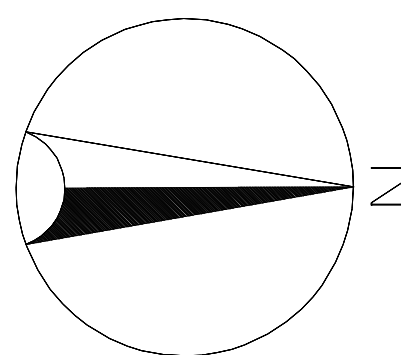
PREPARED FOR:

BEECHEN & DILL HOMES, INC.

7512 S. COUNTY LINE ROAD
STE 4
BURR RIDGE, IL 60527

GREYSTONE RIDGE

ORLAND PARK, ILLINOIS



SCALE: 1" = 50'

DRAWN BY: MPW

CHECKED BY: B BEARY

DATE: 1/23/15

DATE OF PRINT: 2/12/16

PROJECT NO.

SHEET NO.

L-1

Plant material shall be nursery grown and be either balled and burlapped or container grown. Sizes and spreads on plant list represent minimum requirements.

Any materials with damaged or crooked/disfigured leaders, bark abrasion, sunscald, insect damage, etc. are not acceptable and will be rejected. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump (c.l.).

Quantity lists are supplied as a convenience. However, the contractor should verify all quantities. The drawings shall take precedence over the lists.

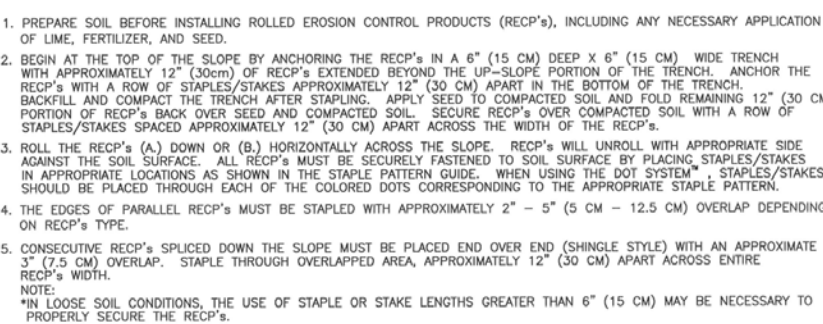
Contractor shall verify location of all underground utilities prior to digging. For location outside the City of Chicago call "J.U.L.I.E." (Joint Utility Location for Excavators) 1-800-892-0123.

Plant symbols illustrated on this plan are a graphic representation of proposed plant material types and are intended to provide for visual clarity. However, the symbols do not necessarily represent actual plant spread at the time of installation.

All other planting beds and tree saucers shall be mulched with a minimum of three inches (3") of shredded wood mulch, with the exception of evergreen trees which shall receive one inch (1") of shredded hardwood mulch over two inches (2") of southern pine bark.

Planting beds adjacent to building shall be mulched in their entirety to the building foundation. Plant materials shall not be installed under building overhangs and other such areas which do not receive natural rainfall.

Grass seed shall be applied mechanically so that the seed is incorporated into the top one-half inch (1/2") of the seed bed. The seed shall then be covered with the specified straw blanket or Hydro-mulch.



This mix contains perishable and physically fragile seeds. It must be refrigerated until sown. It cannot be drilled. It is not available for other than spring planting. It must be sown into shallow water or sown on mud and immediately flooded. A grass, sedge, rush and forb seed mix for emergent mud flats and clean, quiet, shallow water, with gradual slopes down from the spring high water level. Most species will NOT germinate under water. Some species will not survive water level fluctuations during the growing season.

Scientific Name	Common Name	Bloom Time	Bloom Color	Bloom Height	Lbs/Ac
<i>Acorus americanus</i>	Swamp Flag	May-July	Green	1.0-3.0'	0.250
<i>Alisma subcordatum</i>	Water Plantain	July-September	White	1.0-3.0'	0.094
<i>Carex comosa</i>	Botherbush Sedge	May-June	N/A	1.0-2.5'	0.375
<i>Cephalanthus occidentalis</i>	Button Bush	June-August	White	8.0-15.0'	0.163
<i>Eragrostis crassiglora</i>	Hard Grass	May-September	N/A	1.5-5.0'	2.000
<i>Eleocharis palustris</i>	Marsh Spike Rush	May-August	Green	1.0'	0.083
<i>Eleocharis sp.</i>	Spike Rush Species	May-September	N/A	1.0-1.5'	0.063
<i>Glyceria grandis</i>	Reed Manna Grass	June-August	N/A	6.0-9.0'	0.031
<i>Hibiscus speciosus</i>	Rosemallow, Various	July-September	Pink	3.0-6.0'	0.063
<i>Iris virginica</i>	Blue Flag Iris	July-September	Blue	2.0-3.0'	0.250
<i>Juncus</i> Species	Weland Rush Species	July-September	Green	1.0-2.0'	0.083
<i>Leersia oryzoides</i>	Rice Cut Grass	August-October	N/A	2.0-3.0'	0.500
<i>Peltandra virginica</i>	Arrow Arum	July-September	White	2.0'	1.000
<i>Polygonum</i> Species	Smart Weed Species	August-September	White	2.0'	1.500
<i>Potamogeton cordata</i>	Pickersweed	June-October	Blue	2.0-4.0'	0.063
<i>Scirpita latifolia</i>	Common Arrowweed	July-September	White	3.0-4.0'	0.063
<i>Scirpus</i> (<i>Schoenoplectus</i>) <i>acutus</i>	Hard Stem Bulrush	May-August	N/A	5.0-6.0'	0.063
<i>Scirpus fluviatilis</i> (<i>Bulboschoenus</i> f.)	River Bulrush	June-July	Brown	6.0'	0.125
<i>Scirpus pungens</i>	Charmikarns Rush	May-August	Brown	3.0-4.0'	0.125
<i>Scirpus validus</i>	Great Rush	June-July	Brown	3.0-6.0'	0.050
<i>Sagittaria arifolium</i>	Bur Reed	June-August	White	2.0-5.0'	1.000
<i>Zizania aquatica</i>	Wild Rice	July-September	Green	11.0'	0.000
				Total	9.628

Scientific Name	Common Name	Bloom Time	Bloom Color	Bloom Height	Lbs/ac
Andropogon gerardii	Big Bluestem	August-September	n/a	0.5-1.0	3,000
Asclepias incarnata	Swamp Milkweed	June-August	Pink	2.0-4.0	0.063
Asclepias tuberosa	Smooth Blue Aster	August-October	Blue	0.5-1.0	0.063
Aster novae-angliae	New England Aster	July-October	Blue	3.0-5.0	0.031
Calamagrostis canadensis	Blue Joint Grass	May	n/a	2.0-3.5	0.063
Carex acutens notchopaca	Yellow-fruited Sedge	June-June	n/a	1.5-2.5	0.063
Carex bebbii	Bebb's Sedge	May-June	n/a	2.0-3.0	0.063
Carex normalis	Normal Sedge	May-June	n/a	2.0-3.0	0.063
Carex vulpinoidea	Fox Sedge	June-June	n/a	3.0-4.0	0.125
Cassia fasciculata (Chamaecrista f.)	Partridge Pea	July-September	Yellow	2.0	0.250
Cirsium canadensis	Canada Wild Rye	n/a	Yellow	1.0-4.0	0.063
Elymus virginicus	Virginia Wild Rye	June-August	n/a	2.0-4.0	2,000
Epilobium coloratum	Cinnamon Willow Herb	July-September	Pink	2.0	0.015
Eupatorium perfoliatum	Boneset	July-September	White	1.5-3.0	0.015
Hydrum pyramidatum	Great St. John's Wort	July-September	Yellow	1.0-4.0	0.063
Iris virginica ssp.	Blue Flag Iris	May-July	Blue	2.0-4.0	0.125
Liatis pycnostachya	Prairie Gayfeather	July-September	Lavender	1.0-3.0	0.313
Liatris spicata	Spiked Gayfeather	July-September	Lavender	1.0-4.0	0.188
Lobelia spicata	Great Blue Lobelia	July-October	Blue	1.0-3.0	0.031
Mimulus ringens	Monkey Flower	June-September	Blue	1.0-2.0	0.031
Monarda fistulosa	Bergamot	July-September	Pink	2.0-4.0	0.063
Panicum virgatum	Switch Grass	July-August	n/a	2.5-6.0	2,500
Pentstemon interfolium	Wild Quinine	June-August	Yellow	0.1-2.0	0.063
Petalostemum (Dalea) purpureum	Purple Prairie Clover	July-September	Purple	2.0	0.250
Pteris virginiana	False Dragonhead	August-October	Purple	2.0-6.0	0.063
Pyrolanthum virginicum	Common Mt. Mint	June-August	White	1.0-3.0	0.063
Rudbeckia hirta	Yellow Coneflower	July-September	Yellow	1.0-2.0	0.250
Rudbeckia hirta	Black-eyed Susan	June-August	Yellow	1.0-2.0	0.250
Scirpus atrovirens	Dark Green Rush	May-August	Brown	2.0-5.0	0.500
Silphium laciniatum	Compass Plant	June-September	Yellow	4.0-6.0	0.188
Silphium perfoliatum	Cup Plant	July-September	Yellow	2.0-10	0.063
Solidago (Oligoneuron) rigidula	Ridgell's Goldenrod	August-October	Yellow	3.0	0.063
Solidago (Oligoneuron) rigidula	Stiff Goldenrod	August-October	Yellow	4.0	0.125
Sorghastrum nutans	Indian Grass	August-September	n/a	4.0-6.0	4,000
Spiraea pectinata	Corn Grass	July-September	n/a	3.0-6.0	0.188
Vernonia fasciculata	Common Ironweed	July-September	Purple	3.0-6.0	0.031
Vernoniastrum virginicum	Culver's Physic	June-August	White	2.0-4.0	0.063
Zizia aurea	Golden Alexander	April-June	Yellow	1.0-2.5	0.031
				Total	14,296

Scientific Name	Common Name	Bloom Time	Bloom Color	Bloom Height	Lbs/Ac
<i>Agropyron trachycalum</i>	Slender Wheat Grass	June	Green	2-3' 0"	0.750
<i>Amorpha canescens</i>	Leadplant	June-August	Blue/Gold	10-20' 0"	0.125
<i>Aster azureus</i> (celantangetensis)	Sky Blue Aster	October - October	Blue	2-3' 0"	0.063
<i>Aster laevis</i>	Smooth Blue Aster	August - October	Blue	2-3' 0"	0.063
<i>Aster novae-angliae</i>	New England Aster	July - October	Blue	3-5' 0"	0.063
<i>Baptisia leucantha</i>	White Indigo	June-July	White	2-4' 0"	0.063
<i>Botanula curtipendula</i>	Side-o-the-hill	July - August	Green/Red	1-5' 0"	3.000
<i>Ceanothus</i>	Blue-fruited Sedge	June	Blue	1-2' 0"	0.062
<i>CarexACKNICKII</i>	Bicknell's Sedge	May-June	Green	2-3' 0"	0.062
<i>Carex brevior</i>	"Shorter" Sedge	April-June	Green	1-3' 0"	0.062
<i>Cassia fasciculata</i>	Partridge Pea	July-September	Yellow	1-2' 0"	0.125
<i>Dalea purpureum</i>	Purple Prairie Clover	June - August	Purple	1-5' 2"	0.063
<i>Echinacea pallida</i>	Pale Purple Coneflower	May-June	Pink	2-3' 0"	0.281
<i>Echinacea purpurea</i>	Purple Coneflower	May-June	Pink	2-4' 0"	0.500
<i>Elymus canadensis</i>	Canadian Wild Rye	June-July	Green	2-4' 0"	2.000
<i>Eryngium yuccifolium</i>	Rattlesnake Master	July - September	White	2-5' 0"	0.188
<i>Helianthus helianthoides</i>	Yellow Sunflower	July - September	Yellow	2-5' 0"	0.125
<i>Hypericum pyramidalum</i>	Great St. John's Wort	June-August	Yellow	1-3' 0"	0.031
<i>Lespedeza capitata</i>	Roundhead Bushclover	July - September	Green/White	2-3' 0"	0.125
<i>Liatris aspera</i>	Button Blazingstar	July - October	Lavender	1-5' 4"	0.125
<i>Liatris pycnostachya</i>	Prairie Blazingstar	July - September	Lavender	1-5' 0"	0.188
<i>Monarda fistulosa</i>	Bergamot	July - September	Pink	2-4' 0"	0.125
<i>Parthenium integrifolium</i>	Wild Quinine	June-August	White	2-4' 0"	0.188
<i>Panicum virgatum</i>	Switch Grass	July - November	Green/Red	2-5' 6"	0.500
<i>Parthenon digitalis</i>	Foxglove Beardtongue	May-June	White	1-2' 5"	0.125
<i>Physocytia virginiana</i>	Falsk Dragonhead	August-September	Pink	2-3' 0"	0.063
<i>Potentilla arguta</i>	Prairie Cinquefoil	June - August	Yellow	1-3' 0"	0.063
<i>Ratibida pinnata</i>	Yellow Coneflower	July - September	Yellow	3-5' 0"	0.120
<i>Rosa blanda</i>	Early Wild Rose	May-July	Pink	3-5' 0"	0.031
<i>Rudbeckia hirta</i>	Black-eyed Susan	June - August	Yellow	1-5' 0"	0.500
<i>Rudbeckia subtomentosa</i>	Sweet Coneflower	June-August	Yellow	2-4' 0"	0.031
<i>Schizachyrium scoparium</i>	Little Bluestem	July-November	Green/Red	1-5' 3"	3.000
<i>Silphium integrifolium</i>	Rosin Weed	July - September	Yellow	3-6' 0"	0.188
<i>Solidago nemoralis</i>	Goldenrod	August - October	Yellow	1-5' 0"	0.125
<i>Solidago rigida</i>	Ridgell's Goldenrod	August - October	Yellow	1-4' 0"	0.063
<i>Solidago rigida</i>	Stiff Goldenrod	August - October	Yellow	3-6' 0"	0.060
<i>Sporobolus heterotetris</i>	Prairie Dropseed	August - November	Green	2-3' 0"	0.250
<i>Tradescantia ohiensis</i>	Ohio Spiderwort	May - September	Blue	1-5' 2"	0.125
<i>Verbena stricta</i>	Hoary Vervain	June - September	Blue	2-3' 0"	0.125
<i>Vernonia fasciculata</i>	Common Ironweed	July - September	Purple	3-6' 0"	0.188
<i>Vernonia missouriica</i>	Missouri Ironweed	July - October	Purple	2-5' 0"	0.063
<i>Vernonastrium virginicum</i>	Culver's Physic	June - August	White	2-4' 0"	0.006

Scientific Name	Common Name	Bloom Time	Bloom Color	Bloom Height	Lbs/A
<i>Avena sativa</i>	Seed Oats	May-June	n/a	2.0-3.0'	32
<i>Lolium multiflorum</i>	Italian Rye	May-September	n/a	2.0-3.0'	4
Total					36

BOARD APPROVED

Case No.: 2016-0290

Date: 4/18/16

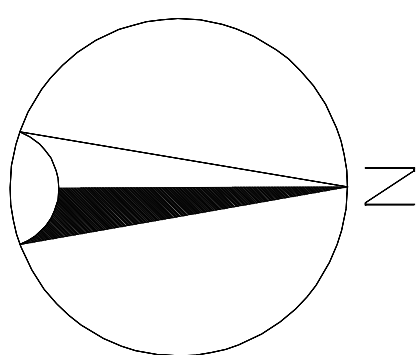
W/Conditions: _____

W/Out Conditions: X _____

VILLAGE OF ORLAND PARK

1.	8/3/15	ADDED NATIVE MAINTENANCE SPECS.
2.	9/28/15	SEED & MAINTENANCE ADJUSTMEN
3.	10/29/15	SEED MIX ADJUSTMENT
No.	Date	Description
REVISIONS		

ORLAND PARK, ILLINOIS



SCALE	$1" = 50'$	PROJECT NO.	
DRAWN BY	MPW		
CHECKED BY	B BEARY	SHEET NO.	
DATE	1/23/15		L-2
DATE OF PRINT			



PLAYSENSE DESIGN 30
BY: LANDSCAPE STRUCTURES
2-5 YEAR OLD PLAY STRUCTURE
MODEL #H76124



LANDSCAPE STRUCTURES
SWING SET MODEL #177352
(2 UNITS)

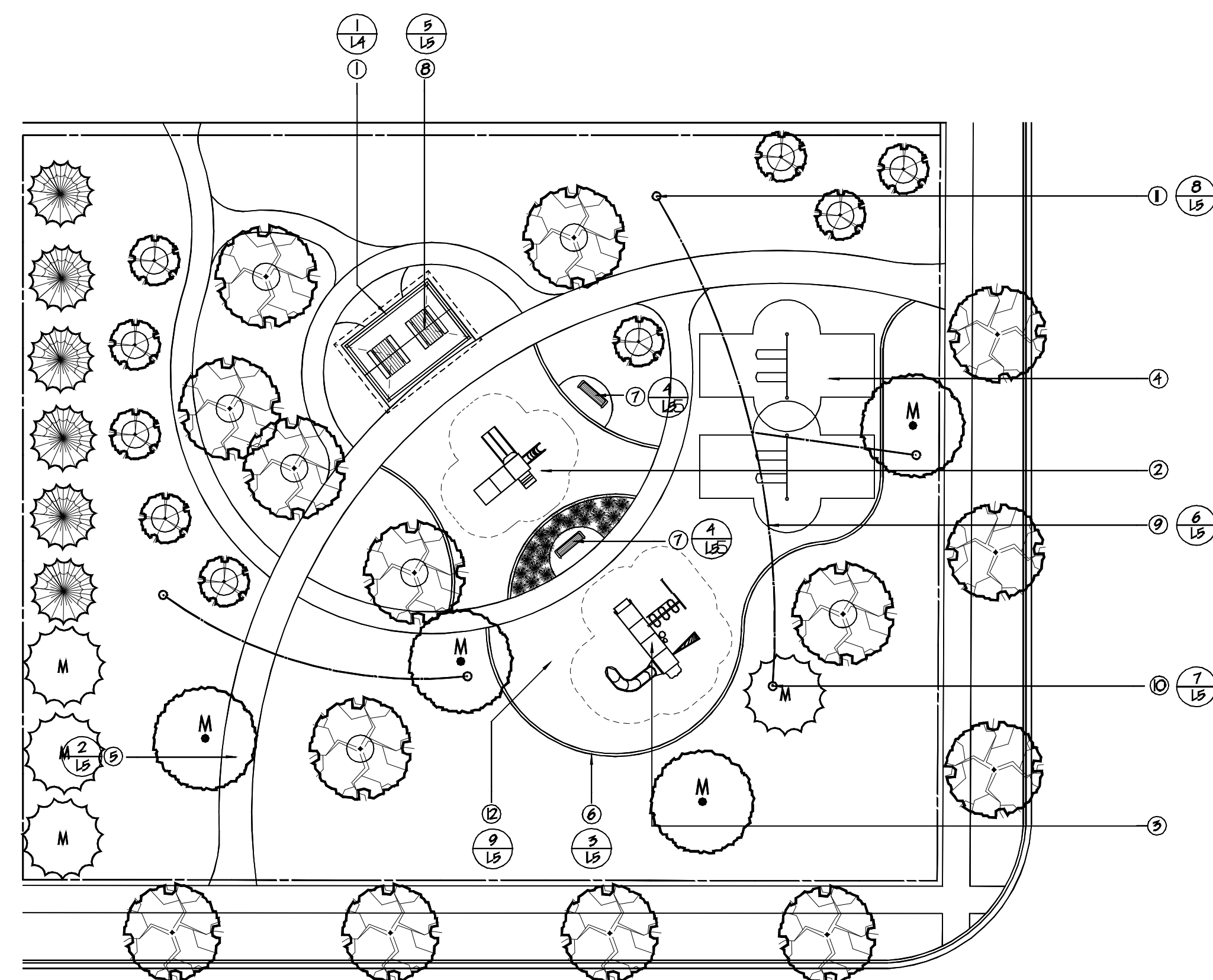
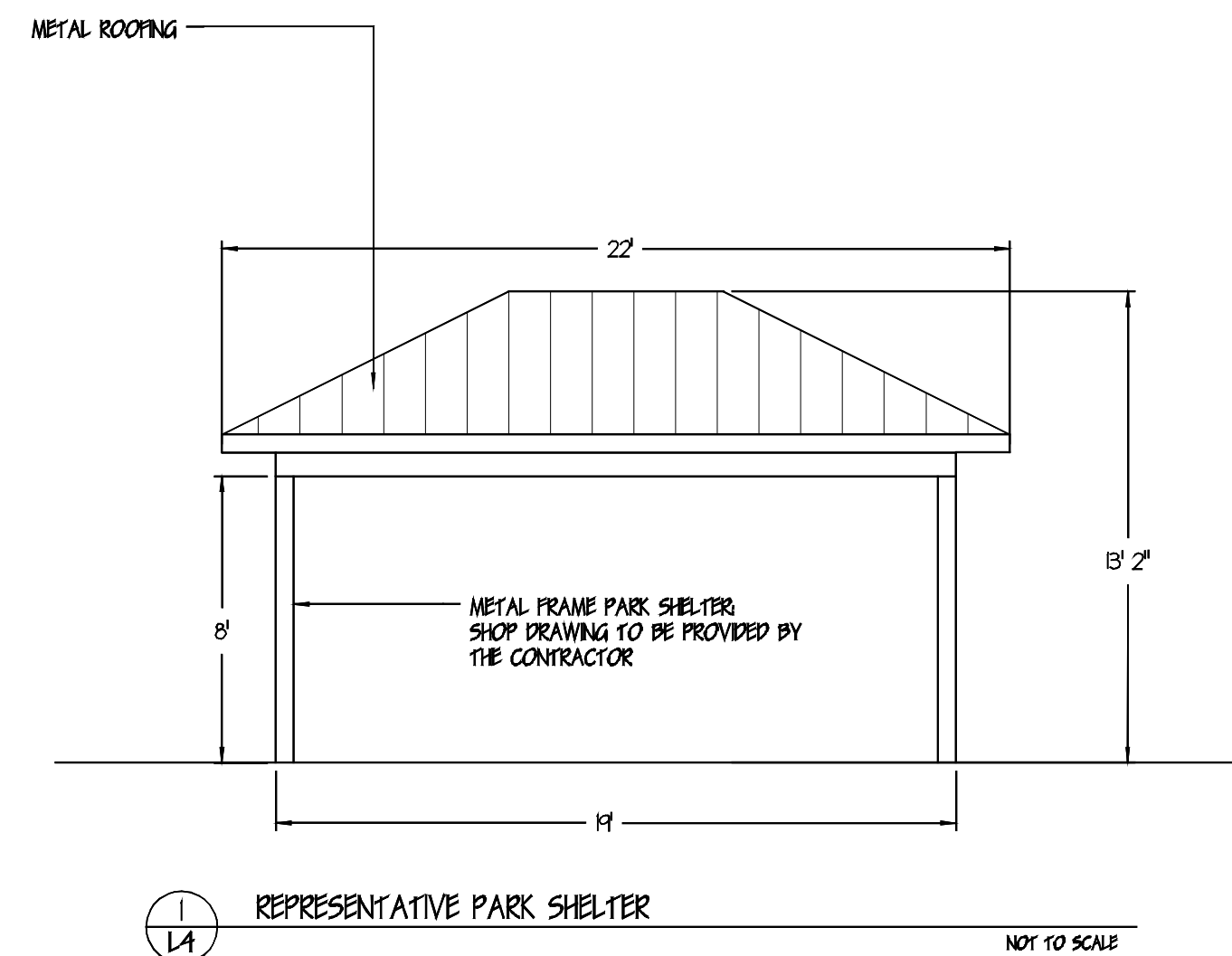


PLAYSENSE DESIGN 600
BY: LANDSCAPE STRUCTURES
5-12 YEAR OLD PLAY STRUCTURE
MODEL #182414



CONSTRUCTION NOTES:

1. Furnish and install a 19x11" Metal Frame Park Shelter (with metal roof) per representative detail. Contractor will design and submit shop drawings for its construction and submit to the Village of Orland Park Parks Department for approval prior to construction. (see detail)
2. Furnish, assemble, and install 2-5 year old play structure (Design 30). Installation must follow manufacturer's installation instructions. Installation must also conform to current editions of ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, by the American Society for testing and Materials, and Public Playground Safety Handbook by the Consumer Product Safety Commission.
3. Furnish, assemble, and install 5-12 year old play structure (Design 600). Installation must follow manufacturer's installation instructions. Installation must also conform to current editions of ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, by the American Society for testing and Materials, and Public Playground Safety Handbook by the Consumer Product Safety Commission.
4. Furnish, assemble, and install swing set (Landscape Structures Swing Set Model #177332 – 2 units). Installation must follow manufacturer's installation instructions. Installation must also conform to current editions of ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, by the American Society for testing and Materials, and Public Playground Safety Handbook by the Consumer Product Safety Commission.
5. Excavate and grade area as necessary to establish sub-grade for new concrete walk and shelter pad. If needed, install compactable clay fill to establish subgrade elevations. Furnish and install aggregate base and reinforced concrete to the elevations shown on plan. Provide tested scoring joints and 6" expansion joints as indicated on plan. Backfill where needed with 6" minimum topsoil material and blend into surrounding grade. Import clean topsoil material as needed to fulfill requirements for no on-site topsoil stockpile is present. (see detail)
6. Excavate as necessary and furnish/install 6"x12" Concrete Play Area Curb. Provide 5" expansion joint with doweled and expansion caps where proposed concrete curb meets walk/shelter pad as noted on detail. Provide saw cut control joints as noted on detail. Backfill where needed with 6" minimum topsoil material and blend into surrounding grade. Import clean topsoil material as needed to fulfill requirements for no on-site topsoil stockpile is present. (see detail)
7. Furnish, assemble, and install 6' Ballustrade Bench by Landscape Forms (Polykote finish with Driftwood color). (see detail)
8. Furnish, assemble, and install 54"x58" Grotchen Bench by Landscape Forms (Polykote finish with Driftwood color). (see detail)
9. Furnish and install playground underdrainage system. (see detail)
10. Furnish and install underdrainage vent/cleanout. (see detail)
11. Furnish and install underdrainage pop-up outlet. (see detail)
12. Excavate or fill area with compacted clay material to the subgrade elevation shown. Subgrade must pitch a minimum of 1% to the nearest underdrain trench. Furnish and install Engineered Wood Fiber Safety Surfacing and filter fabric. Engineered wood fiber safety surfacing must meet current Consumer Products Safety Commission (CPS) recommendations; Americans with Disabilities Act (ADA) requirements; passed Heat Attenuation Test ASTM F2952-19; Wheelchair Accessibility Test ASTM F1951; positive Static Analysis; Tramp Mat and Heavy Metal Test ASTM F2075; and is International Play Equipment Manufacturers Association (IPEMA) certified.



PLAYGROUND CONSTRUCTION PLAN

NOTES

BEARY LANDSCAPING

15001 W. 159TH STREET
LOCKPORT, IL 60441

815-838-4100 P
818-838-3200 F

BOARD APPROVED

Case No: 2016-0290

Date: 4/18/16

W/Conditions: _____

W/Out Conditions: X



1	9/28/5	STRUCTURE DETAILS
2	2/5/16	REVISE SKING SET DETAIL
3	3/2/16	SHOW MITIGATED TREE PLACEMENT

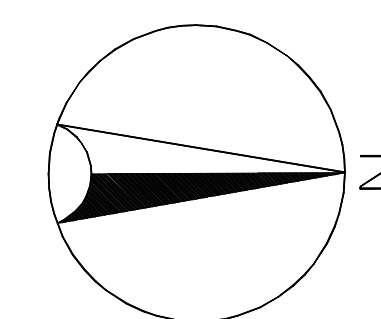
No.	Date	Description
REVISIONS		

PREPARED FOR:

BEECHEN & DILL HOMES, INC.

7512 S. COUNTY LINE ROAD
STE 4
BURR RIDGE, IL 60527

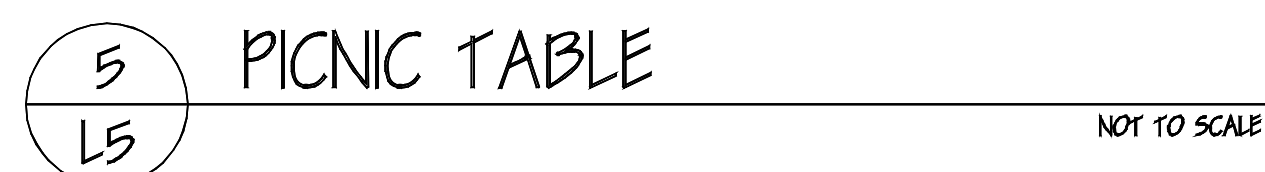
GREYSTONE RIDGE
PARK CONSTRUCTION
& DIMENSION PLAN



SCALE	1" = 20'
DRAWN BY	MPW
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DATE	2/15/16
DATE OF PRINT	

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SHEET NO.

L-4



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