FINAL LANDSCAPE PLAN

ESTATES AT RAVINIA MEADOW

VILLAGE OF ORLAND PARK, ILLINOIS

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Village of Orland Park Required Landscaping

LANDSCAPE PARKWAYS REQUIREMENT

Requirement: Parkways measuring 7' or more require 40' on center spaces excluding driveways. The parkways shall be planted with grass or low ground cover. Parkway trees shall consist of recommended tree species in 6-305.G. Must be set 5' from sidewalk/curb and 6' from fire hydrants and buffalo boxes. For parkways less than Required- 295 Trees (Estimated prior to driveway additions)

LANDSCAPE CORRIDORS REQUIREMENT

On Plan - 301 Trees

Requirement: Landscape corridors are the space between the parkway and a building's main facade and foundation planting area. Corridor requirements are based on the adjacent roadway classification. For this project, the corridor type is "Typical" which requires 1 Shade Tree and 1 Ornamental or Evergreen Tree per

Not required for single family lots, only common areas, per 6-305-B-2a (Single Family Detached). However, New residential developments with rear or side yards abutting an arterial or collector street are considered a special condition and require a corridor. Ravinia Ave is a Collector street, so in that location a uniform fence is required along any adjoining lot line and "Typical" corridor plantings are required.

Required- At Ravinia, 139 If of lot frontage. Requires 2 Shade Trees and 2 Ornamental or Evergreen

On Plan- 2 Shade Trees, 2 Evergreen Trees and Fence at property lines.

LANDSCAPE BUFFERYARDS REQUIREMENT

West: Open Space (Cemetery)- No buffer required

Requirement: Per existing land use or future land use as shown in comp plan.

North: Open Space (Stormwater management) between site and Costco (Commercial)- No buffer required

South: Orland Hills Single Family (Zoned Multifamily and being developed)- Proposed Open Space area along south property line. No buffer required.

East: Multifamily (townhomes and duplex)- Type 1 Buffer (10' Bufferyard with 7' min planting bed; 3 Shade Trees, 1 ornamental or evergreen tree and 16 shrubs per 100')

(Single-family residential developments adjacent to single family are exempt from bufferyard requirements.)

Required- 69 Shade Trees, 23 Ornamental or Evergreen Trees and 268 Shrubs On Plan - 69 Shade Trees, 23 Ornamental or Evergreen Trees and 268 Shrubs plus 46 Existing Shade Trees and 9 Existing Evergreen Trees to be preserved (off-site at property line).

FOUNDATION AND INTERIOR LANDSCAPE REQUIREMENT

Not required per 6-305-B-2a (Single Family Detached)

PARKING LOT AREA REQUIREMENT

Not required per 6-305-B-2a (Single Family Detached)

SIGNAGE LANDSCAPE REQUIREMENT

Requirement: 5' wide min. planting bed shall be installed around the base of all ground signs. 50% of the bed min. should be landscaped with year round interest. On Plan - Meets Ordinance Requirements

STORMWATER MANAGEMENT AREA LANDSCAPE REQUIREMENT

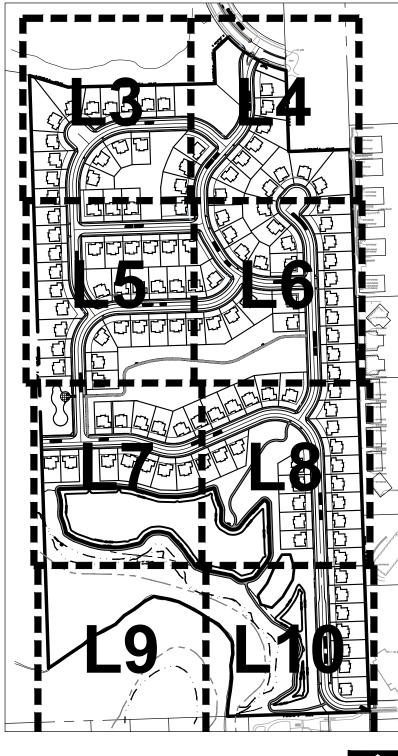
Requirement: Naturalized landscape area shall provide complete coverage of the perimeter of the basins. Min. 1 native canopy tree per 100 lf of HWL. Native understory trees shall be min. 1 tree per 200 lf of HWL. Native shrubs @ 3 shrubs per 50 lf. Native vegetation shall be established from the basin's bottom to HWL. A min. 15' setback from the HWL must be planted with naturalized landscape with an 8' wide maintenance vehicle access area planted with low growing plant materials or a recreation/maintenance trail. A M&M plan shall be provided

Required- 3,737 If of HWL total requires 38 Canopy Trees, 19 Ornamental Trees, 225 Shrubs, plus native area (north area is a BMP and not a stormwater facility)

On Plan - 39 Canopy trees, 20 Ornamental Trees, 232 Shrubs, plus native seeding area

TREE PRESERVATION REQUIREMENT

Requirement: Developers of any site shall submit a Tree Mitigation Plan. Plan shall include a tree survey showing any tree 4" dbh or greater including size, location, dripline, species and condition. A mitigation report shall be provided showing the data of trees to be removed and quantity/caliper of required replacement trees following table 6-305.F.3.f.1(A). On Plan - See Sheet L2



KEY MAP



Village of Orland Park Plant Diversity Requirements Note: Native plant determination is per Swink & Wilhelm's Plants of the Chicago Region, Wilhelm & Rericha's Flora of the Chicago Region, Maximum % of any species = 30% (118) No species exceeds this maximum. Requirement is met. 10 ornamental trees, total, (5-10 category) (excludes Native Area Plantings, to be provided by V3) Maximum % of any species = 60% (6) Percentage of native species = 30% 100% of species are native. Requirement is met Minimum number of species = 1 97 ornamental grasses, total. (76-500 category Minimum % of any species = 5% (5) No species has less than 5 specimens present. Requirement is met Percentage of native species = 30% 74% of species are native. Requirement is met. 8 species present. Requirement is met. Minimum number of species = 8 10 perennials, total. (76-500 category) Maximum % of any species = 30% (93) Minimum % of any species = 5% (16) No species has less than 16 specimens present. Requirement is met. 71% of species are native. Requirement is met. Minimum number of species = 8 The overall number of trees and shrubs required for a site shall be comprised of not less than 30% evergreen and 70% deciduous, plus or

On Plan- 30% of shrubs are evergreen species. Tree requirements cannot be met since the majority of trees on site are street trees

Village of Orland Park Data Box

TOTAL AREA IN S.F. OF LOT TO BE DEVELOPED: 3,160,714 TOTAL PROJECT SQUARE FEET (72.56 AC)

TOTAL SQUARE FEET AND PERCENTAGE OF LANDSCAPE AREA:

MIN. 1,163,052 TOTAL SQUARE FEET (26.7 AC) OF LANDSCAPE AREA. 36.8% OF TOTAL PROJECT AREA. DEPENDANT ON PRODUCT MIX

TOTAL NUMBER OF LANDSCAPE AREA AND SQUARE FEET COMPARED TO PARKING STALLS: NOT APPLICABLE. NO OFF STREET PARKING AREAS IN PROJECT

TOTAL REQUIRED PARKWAY TREES

REQUIRED: 12,018 LF PARKWAY FRONTAGE (EXCLUDING DRIVES AND SIGHT TRIANGLES) / 40 = 300 TREES REQUIRED PROPOSED: 315 PARKWAY TREES PROVIDED

TOTAL REQUIRED LANDSCAPE CORRIDOR TREES

REQUIRED: 139 LF LOT FRONTAGE AT RAVINIA AVE. / 100 = 2 SHADE TREES & 2 EVERGREEN/ ORNAMENTAL TREES REQUIRED, + FENCE. PROPOSED: 2 SHADE TREES AND 2 EVERGREEN/ORNAMENTAL TREES PLUS FENCE AT PROPERTY LINES OF RESIDENTIAL HOMES.

TOTAL REQUIRED BUFFERYARD LANDSCAPING

REQUIRED: EAST PROPERTY LINE ONLY SIDE THAT REQUIRES BUFFER. 2,300 LF / 100 REQUIRES 69 SHADE TREES, 23 ORNAMENTAL OR EVERGREEN TREES AND 268 SHRUBS

PROPOSED: 69 SHADE TREES, 23 ORNAMENTAL OR EVERGREEN TREES AND 268 SHRUBS + 46 EXISTING SHADE TREES & 9 EVERGRN.

TOTAL REQUIRED FOUNDATION LANDSCAPING REQUIRED: N/A

PROPOSED: N/A

PROPOSED: N/A

TOTAL REQUIRED PARKING LOT LANDSCAPING REQUIRED: N/A

TOTAL REQUIRED SIGNAGE LANDSCAPING REQUIRED: 5' LANDSCAPE AREA ON ALL SIDES WITH SEASONAL INTEREST PLANTINGS

TOTAL REQUIRED STORMWATER MANAGEMENT AREA LANDSCAPING

REQUIRED: 3,737 LF OF HWL TOTAL REQUIRES 38 CANOPY TREES, 19 ORNAMENTAL TREES, 225 SHRUBS, PLUS NATIVE AREA PROPOSED: 39 CANOPY TREES, 20 ORNAMENTAL TREES, 232 SHRUBS, PLUS NATIVE SEEDING AREA

PROPOSED: LANDSCAPE AREA OVER 5' WITH SEASONAL INTEREST PLANTINGS, EXCEEDS ORDINANCE REQUIREMENT

	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER		REMARKS
\wedge	CONVE	EDOLIC ADEEC						
<u>/2</u> \	AC5	EROUS TREES	Abies concolor	White Fir	6` Ht.	B&B	1	Non Native
/	PA2	8	Picea abies	Norway Spruce	6` Ht.	B&B		Non Native
(PB	4	Picea glauca densata	Black Hills Spruce	6` Ht.	B&B		Non-Native (To Region)
	PS	8	Pinus strobus	White Pine	6` Ht.	B&B		Native (10 (Teglott)
(TC	11	Tsuga canadensis	Eastern Hemlock	6` Ht.	B&B		Native
	\ _	111	i suga cariaderisis	Eastern Herniock	о пі.	D&D		Ivalive
\triangle	DECIDI	JOUS TREES						
$\frac{2}{2}$	AG3	51	Aesculus glabra `JN Select`	Early Glow™ Ohio Buckeye	2.5" Cal.	B&B		Native
(CO	52	Celtis occidentalis	Common Hackberry	2.5" Cal.	B&B		Native
^	GT	64	Gleditsia triacanthos f. inermis	Thornless Honey Locust	2.5" Cal.	B&B		Native
$\sqrt{2}$	GK	43	Gymnocladus dioicus	Kentucky Coffeetree	2.5" Cal.	B&B		Native
	NS	22	Nyssa sylvatica	Tupelo	2.5" Cal.	B&B		Native
(24 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Quercus macrocarpa	Burr Oak	2.5" Cal.	B&B		Native
	QM	43	Quercus rubra	Northern Red Oak	2.5 Cal. 2.5" Cal.	B&B		Native
	QR TR	38	Tilia americana 'Redmond'	Redmond American Linden				Native
					2.5" Cal.	B&B		
	UP	55	Ulmus americana 'Princeton'	Princeton American Elm	2.5" Cal.	B&B		Native
	OBNIAA	AFNITAL TOFFS						
	AX2	MENTAL TREES 5	Amelanchier x grandiflora	Apple Serviceberry	6` Ht.	B&B	1	Native
	CE	5	Cercis canadensis	Eastern Redbud Multi-trunk	6` Ht.	B&B		Native
2	OE	3	Cercis cariaderisis	Eastern Redbud Multi-trunk	о пі.	ΒαΒ		Ivalive
	DECIDI	JOUS SHRUBS						
	AG2	19	Aronia melanocarpa 'UCONNAM012'	Ground Hug® Black Chokeberry	18" Ht.	Pot		Native
	AM2	21	Aronia melanocarpa elata	Glossy Black Chokeberry	18" Ht.	Pot		Native
}	CA5	19	Ceanothus americanus	New Jersey Tea	18" Ht.	Pot		Native
	CL3	20	Cephalanthus occidentalis 'SMCBC'	Crimson Comet™ Buttonbush	24" Ht.	Pot		Native
7	CG	21	Cornus racemosa	1	24 Ht.	Pot		Native
	I	1		Gray Dogwood				
	CA6	25	Corylus americana	American Hazelnut	24" Ht.	Pot		Native
	HV2	19	Hydrangea arborescens 'NCHA3'	Invincibelle® Ruby Smooth Hydrangea	18" Ht.	Pot		Native
	> IO	20	llex verticillata 'Roberta Case'	Berry Heavy® Gold Winterberry	24" Ht.	Pot		Native
	LB	33 <	Lindera benzoin	Spicebush	24" Ht.	Pot		Native
	PL	19	Potentilla fruticosa 'Lundy'	Happy Face® Yellow Bush Cinquefoil	18" Ht.	Pot		Native
	RL	19 <	Rosa rugosa 'Purple Pavement'	Purple Pavement Rose	18" Ht.	Pot		Not Native
	VW	36	Viburnum trilobum 'J.N. Select'	Redwing® American Cranberrybush	24" Ht.	Pot		Native
		REEN SHRUBS						
	JP	19 /	Juniperus chinensis 'Kallays Compact'	Kallay Compact Pfitzer Juniper	18" Ht.	Pot		Non Native
	JB3	26	Juniperus virginiana 'Burkii'	Burk Eastern Redcedar	24" Ht.	Pot		Native
	TB2	48	Thuja occidentalis 'Brabant'	Brabant Arborvitae	24" Ht.	Pot		Native
'	TT2	24	Thuja occidentalis 'Techny'	Techny Arborvitae	24" Ht.	Pot		Native
2		MENTAL GRASS				1		
	AB	6	Andropogon gerardii 'Blackhawks'	Blackhawks Big Bluestem	1 gal.	Pot		Native
	CK	25)	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.	Pot		Non Native
	CP	21	Carex pensylvanica	Pennsylvania Sedge	1 gal.	Pot		Native
	> DG	5 /	Deschampsia cespitosa 'Goldtau'	Gold Dew Tufted Hair Grass	1 gal.	Pot		Native
	PS3	14	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 gal.	Pot		Native
	> SL	6 <	Schizachyrium scoparium	Little Bluestem	1 gal.	Pot		Native
	SN	7	Sorghastrum nutans	Indian Grass	1 gal.	Pot		Native
	∖ SH	13/	Sporobolus heterolepis	Prairie Dropseed	1 gal.	Pot		Native
			· ·	·				
	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	REMARKS
		•			•	•	•	
		ID COVERS	_					
	TS	32,317 sf	Turf- Seed and Blanket	Turf- Seed and Blanket	seed	SF		To be Drill Seeded and
								covered with Erosion
	ТВ	119,948 sf	Turf- Sod Bluegrass	Kentucky Bluegrass	sod	SF		Control Blanket 100% Kentucky Bluegrass
	ID	1 19,946 SI	Turi- Sod Bluegrass	Kentucky bluegrass	sou	SF		(min. 4 varieties)
2	<u> </u>							(IIIIII. + Valieties)
/	PERENN	21411						
	AC	87	Allium cernuum	Nodding Onion	1 gal.	Pot	12" o.c.	Native
	AC3	16	Anemone canadensis	Canadian Anemone	1 gal.	Pot	20" o.c.	Native
	AT3	26	Asclepias tuberosa	Butterfly Milkweed	1 gal.	Pot	24" o.c.	Native
	CI3	53	Callirhoe involucrata	Purple Poppymallow	1 gal.	Pot	24" o.c.	
		26						Non Native (To Region)
	EW		Echinacea purpurea 'PAS702917'	PowWow® Wild Berry Coneflower	1 gal.	Pot	18" o.c.	Native
	HT	18	Heliopsis helianthoides 'Tuscan Sun'	False Sunflower	1 gal.	Pot	18" o.c.	Native
	NC	33 <	Nepeta x 'Cat's Pajamas'	Cat's Pajamas Catmint	1 gal.	Pot	24" o.c.	Non Native
	PJ	16	Phlox paniculata 'Jeana'	Jeana Garden Phlox	1 gal.	Pot	36" o.c.	Native
	RH	19 /	Rudbeckia hirta	Black-eyed Susan	1 gal.	Pot	24" o.c.	Native
	RH2	16	Ruellia humilis	Wild Petunia	1 gal.	Pot	22" o.c.	Native
		<u> </u>						
		SEED MIXES	Ter 2	1=	T	1==		I
	NE	435,347 sf	Native Seed Mix	Economy Prairie Seed Mix	seed	SF		SEE NATIVE PLANTING
								PLANS PREPARED BY
	NIT	154 000 1	Notive Cand Miss	Champayatan Caad Min	000-	OF.		V3 CONSULTING
	NT	154,969 sf	Native Seed Mix	Stormwater Seed Mix	seed	SF		SEE NATIVE PLANTING
								PLANS PREPARED BY
	NA	158,445 sf	Native Seed Mix	Wetland Emergent	seed	SF		V3 CONSULTING SEE NATIVE PLANTING
	13/	100,770 31	THATIVE COOL IVIIA	Trouding Emergent	3000			PLANS PREPARED BY
								V3 CONSULTING
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CONCEPT PLANT SCHEDULE



PLANT SCHEDULE

STORMWATER AREA NATIVE CANOPY TREE PLAN SET BY V3 CONSULTING



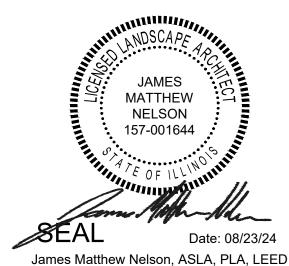
STORMWATER AREA NATIVE ORNAMENTAL TREE PLAN SET BY V3 CONSULTING





SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING

PLANTING PLAN AND LOCATIONS OF TREES/SHRUBS SHOWN IN THE STORMWATER MANAGEMENT AREA SUBJECT TO CHANGE DURING FINAL PLAN DEVELOPMENT. QUANTITIES OF TREES/SHRUBS WILL REMAIN AS SHOWN, THOUGH PLACEMENT MAY DIFFER.

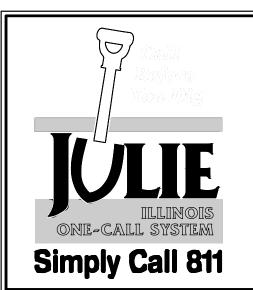


Illinois Registered Landscape Architect

157-001644

Expires 08/31/2025





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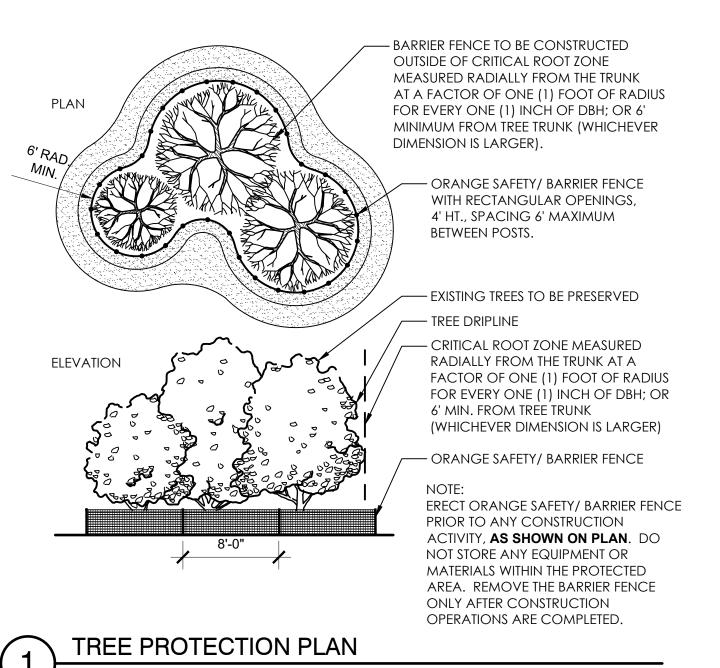
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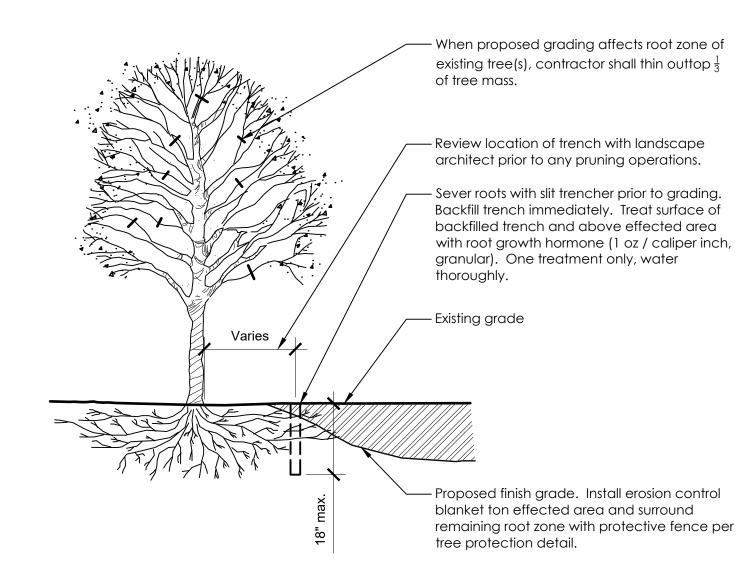
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1 inch = 150 ft.



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Root Pruning

Existing tree roots greater than one (1) inch in diameter, measured at the edge of excavation, shall be pruned within 24 hours of the time they have been damaged by construction activity. The severed root shall be pruned at the edge of excavation, or one (1) inch beyond the entire damaged portion of the tree root, if damaged root extends beyond the edge of excavation into undisturbed soil

All cuts shall be cleanly made with sharp tools.

The excavated area around the existing tree roots shall be backfilled as soon as construction activities permit.

Amended existing soil shall be used as backfill material within the disturbed root zone areas not receiving drainage or subbase stone items. Amended existing soil shall be amended with peat or compost in the ratio of one part organic to seven parts existing soil.

Vulnerable Area Protection Methods

All tree root zones designated as "Vulnerable" shall receive special care and attention during construction. These areas contain roots for large trees that are within the construction area. Since these trees have high value to the project, efforts shall be made to preserve these trees, however the property owner will not be held liable if the trees do not survive.

An arborist should be consulted prior to construction to provide advice on preservation techniques. Each tree and construction condition is unique so an arborist is best qualified to provide a recommendation for each tree. Preservations may include root pruning, crown pruning, hormone treatment, fertilizers, soil amendments, excavation techniques, etc.

CONSULATION FOR THE COMPANDATION OF SULVEY OF

PER PER PER

SE OF ORLAND PARK, ILLINOIS
TREE MITIGATION PLAN

MEADOW

ESTATES

PROJ. MGR.: MN

PROJ. ASSOC.: MN

DRAWN BY: MN

DATE: 03/14/25

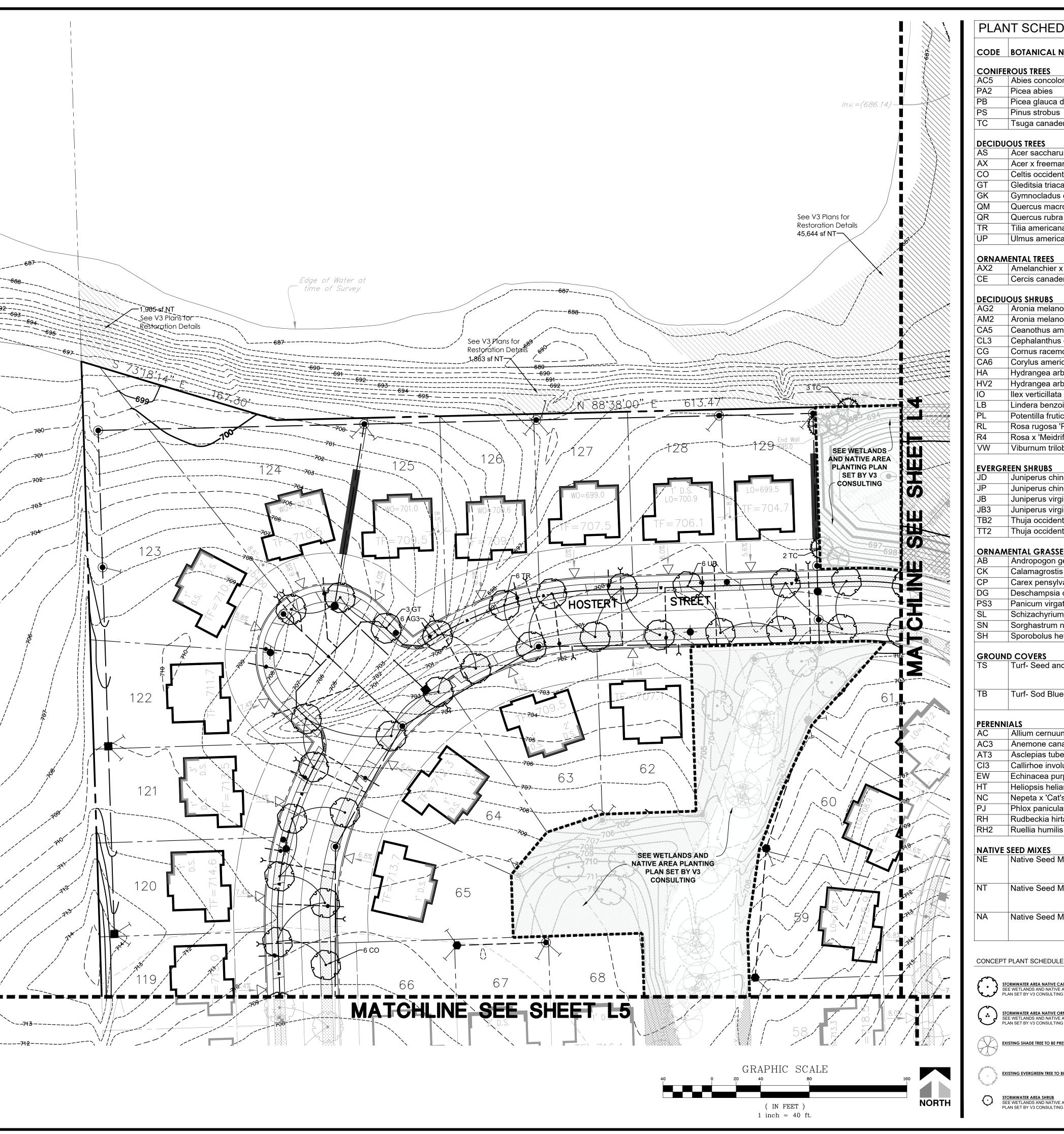
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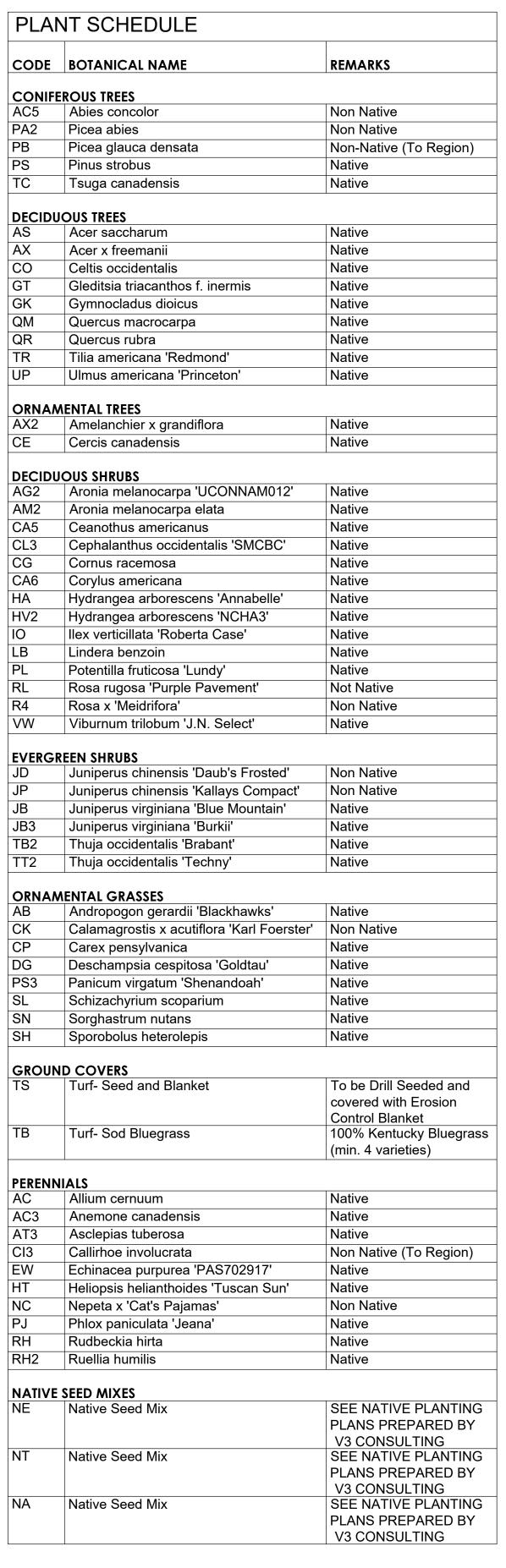
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L2 OF L14

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STORMWATER AREA NATIVE CANOPY TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING
93

STORMWATER AREA NATIVE ORNAMENTAL TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING

EXISTING EVERGREEN TREE TO BE PRESERVED

STORMWATER AREA SHRUB
SEE WETLANDS AND NATIVE AREA PLANTING

PLAN SET BY V3 CONSULTING

LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

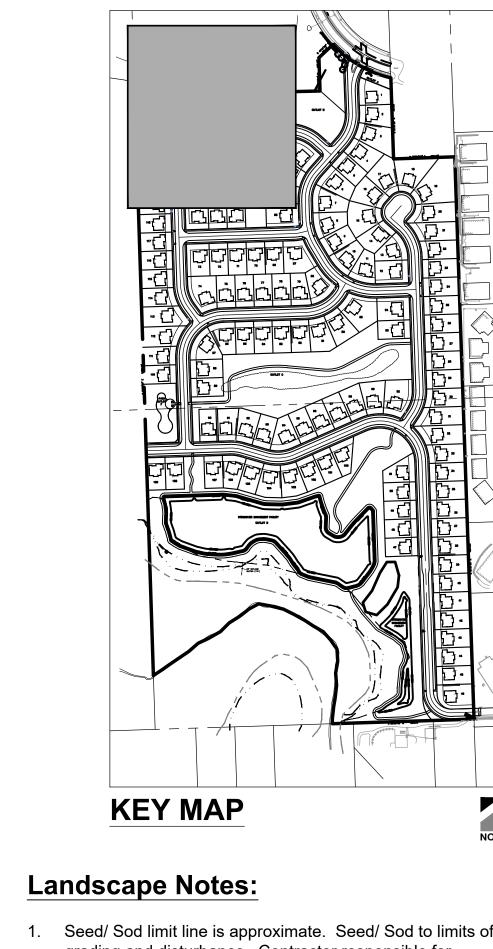
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PREPARED BY V3. QUANTITIES

TO CHANGE. PLANS TO BE

OF TREES/SHRUBS WILL

PLACEMENT MAY DIFFER.



- Seed/ Sod limit line is approximate. Seed/ Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
- Contractor responsible for erosion control in all seeded/ sodded areas.
- Tree mulch rings in turf areas are 5' diameter. Contractor shall provide a mulch ring around all existing trees within the limits of work. Remove all existing grass from area to be mulched and provide a typical spade cut edge. Landscape Fabric shall not be installed under mulch.
- Bedlines are to be spade cut to a minimum depth of 3". Curved bedlines are to be smooth and not segmented.
- All planting, beds shall receive top dressing of mulch. Landscape fabric shall not be installed under mulch. Root flares shall be at or above grade, per specifications, and all rope/cord shall be removed from the base of tree trunks.
- 5. Do not locate plants within 10' of utility structures or within 5' horizontally of underground utility lines unless otherwise shown on plans. Consult with Landscape Architect if these conditions exist.
- 6. For Lump Sum Contracts, plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
- For Unit Price Contracts, payments will be made based on actual quantities installed as measured in place by the Owner's Representative
- 8. It is the responsibility of the contractor to locate and provide plant material as specified on this plan. The contractor may submit a request to provide substitutions for the specified plant material under the following conditions:
 - a. Any substitutions proposed shall be submitted to the project owner's representative within two weeks of the award of contract. Substitutions must meet equivalent design and functional goals of the original materials as determined by the owner's representative. Any changes must have the approval of the owner's representative,
 - b. The request will be accompanied by at least three notices from plant material suppliers that the plant material specified is not available and will not be available prior to construction.
- 10. Verify site conditions and information on drawings. Promptly report any concealed conditions, mistakes, discrepancies or deviations from the information shown in the Contract Documents. The Owner is not responsible for unauthorized changes or extra work required to correct unreported discrepancies. Commencement of work shall constitute acceptance of conditions and responsibility for corrections
- 11. A minimum of two working days before performing any digging, call underground service alert for information on the location of natural gas lines, electric cables, telephone cables, etc. The contractor shall be responsible for location and protection of all utilities, and repair of any damage resulting from his work at no additional cost to the owner.
- at no cost to owner. 13. Refer to landscape specifications for additional conditions, standards, and notes.

12. Contractor shall promptly repair all damages to existing site

SCALE: SHEET

PUL.OPIL04

PROJ. MGR.: MN 03/14/25 <u>1"=40'</u>

ORLAND PARK, ILLINOIS

OF

GE

LANDS

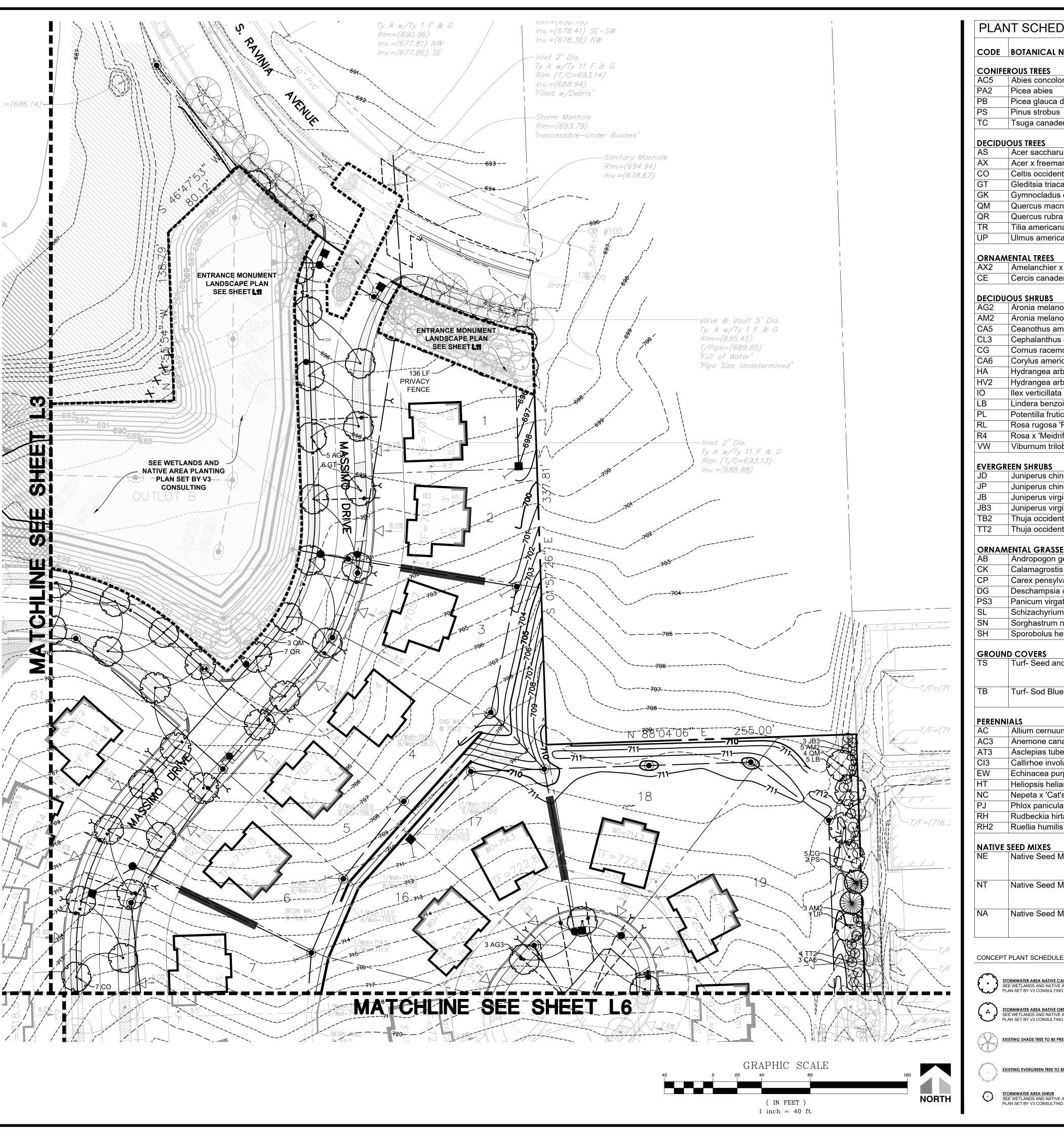
ADOW

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REVISED PER NEW BMP AT ENT REVISED PER VILLAGE COMMEN REVISED PER NEW BASIN AT EI





STORMWATER AREA NATIVE CANOPY TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING
93

STORMWATER AREA NATIVE ORNAMENTAL TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING

EXISTING EVERGREEN TREE TO BE PRESERVED

STORMWATER AREA SHRUB
SEE WETLANDS AND NATIVE AREA PLANTING

LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

REMAIN AS SHOWN, THOUGH

PREPARED BY V3. QUANTITIES

TO CHANGE. PLANS TO BE

OF TREES/SHRUBS WILL

PLACEMENT MAY DIFFER.



08/15/25 REVISED PER NEW BMP AT ENTE 05/12/25 REVISED PER VILLAGE COMMENT: 04/23/25 REVISED PER NEW BASIN AT EN

Landscape Notes:

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 - b. The request will be accompanied by at least three notices from plant material suppliers that the plant material specified is not available and will not be available prior to construction.
- 10. Verify site conditions and information on drawings. Promptly report any concealed conditions, mistakes, discrepancies or deviations from the information shown in the Contract Documents. The Owner is not responsible for unauthorized changes or extra work required to correct unreported discrepancies. Commencement of work shall constitute acceptance of conditions and responsibility for corrections
- 11. A minimum of two working days before performing any digging, call underground service alert for information on the location of natural gas lines, electric cables, telephone cables, etc. The contractor shall be responsible for location and protection of all utilities, and repair of any damage resulting from his work at no additional cost to the owner.
- 12. Contractor shall promptly repair all damages to existing site at no cost to owner.
- 13. Refer to landscape specifications for additional conditions, standards, and notes.

PROJ. MGR.: MN 03/14/25 <u>1"=40'</u> SCALE: SHEET OF

PUL.OPIL04

ILLINOIS

ORLAND PARK,

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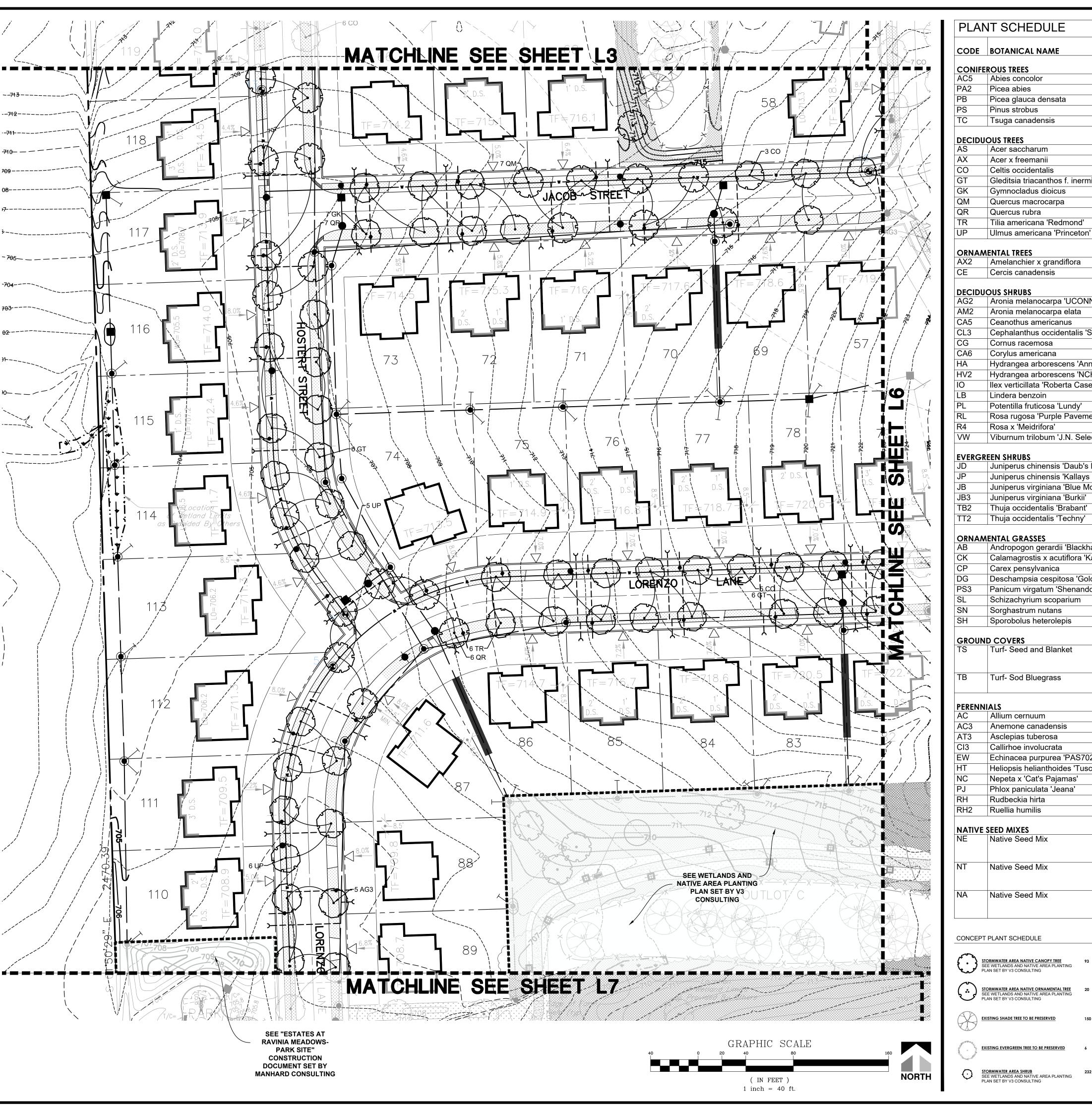
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LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

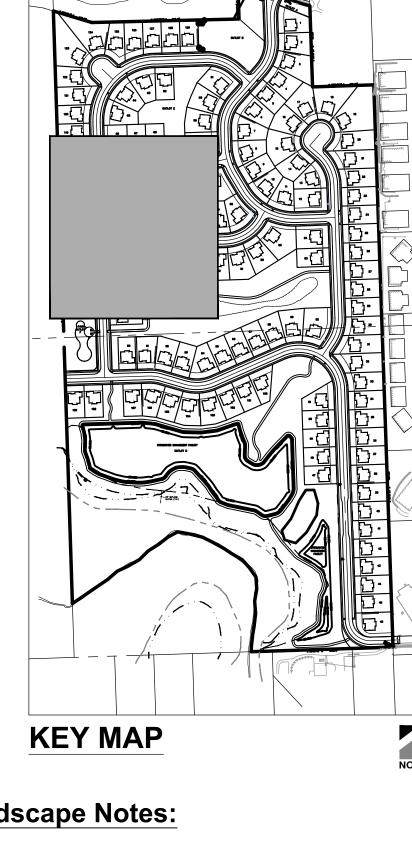
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PREPARED BY V3. QUANTITIES

TO CHANGE. PLANS TO BE

OF TREES/SHRUBS WILL

PLACEMENT MAY DIFFER.



Landscape Notes:

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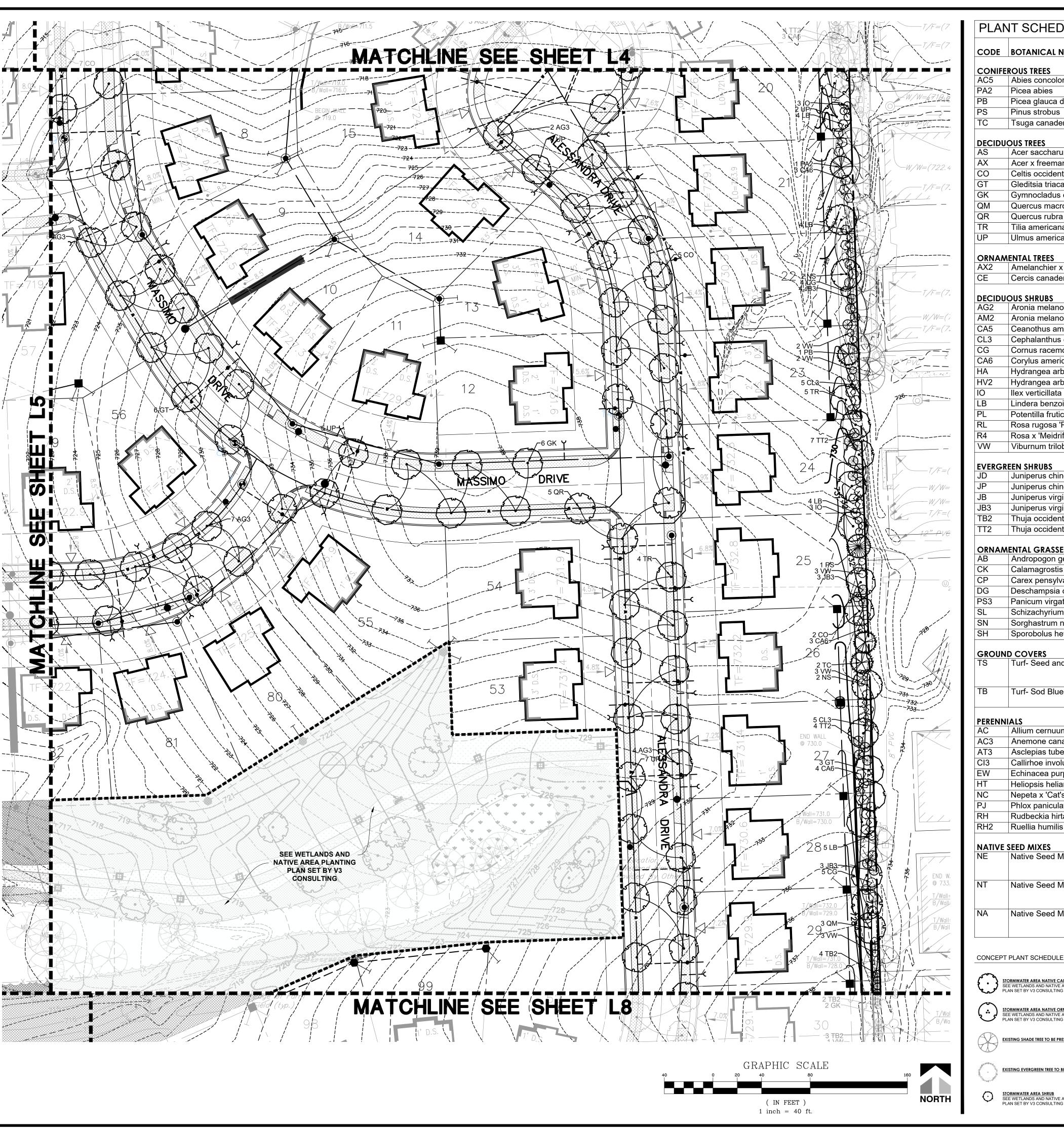
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LANDS

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ORLAND PARK, ILLINOIS **ADOW** ME/ **RAVINIA** ES OF GE





STORMWATER AREA NATIVE CANOPY TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING
93

STORMWATER AREA NATIVE ORNAMENTAL TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING

EXISTING EVERGREEN TREE TO BE PRESERVED

STORMWATER AREA SHRUB
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING

LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

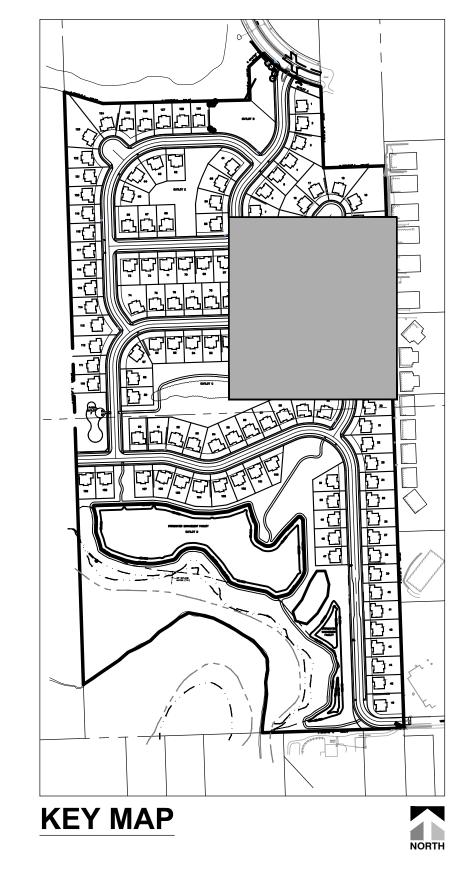
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ORLAND PARK, ILLINOIS

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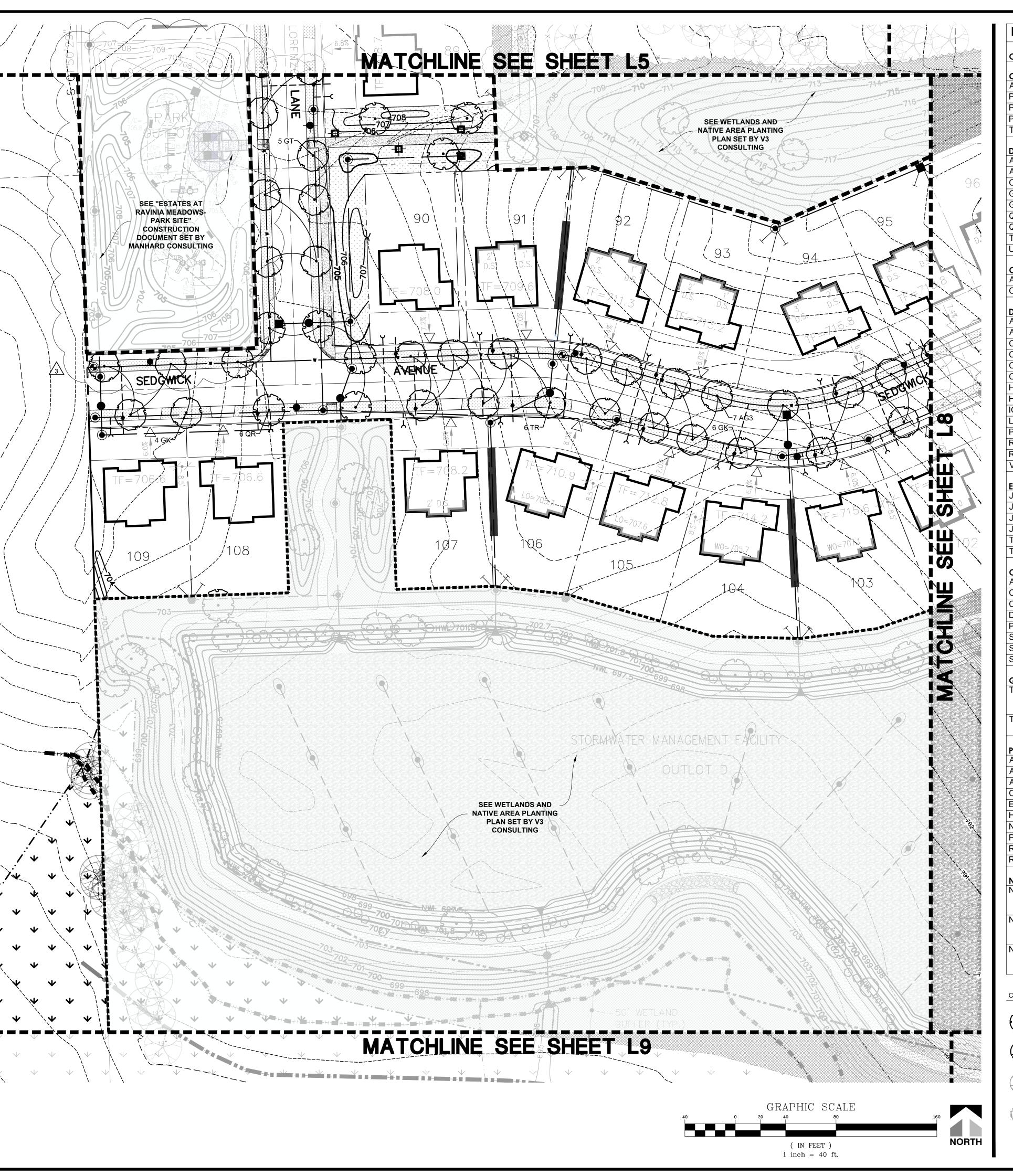
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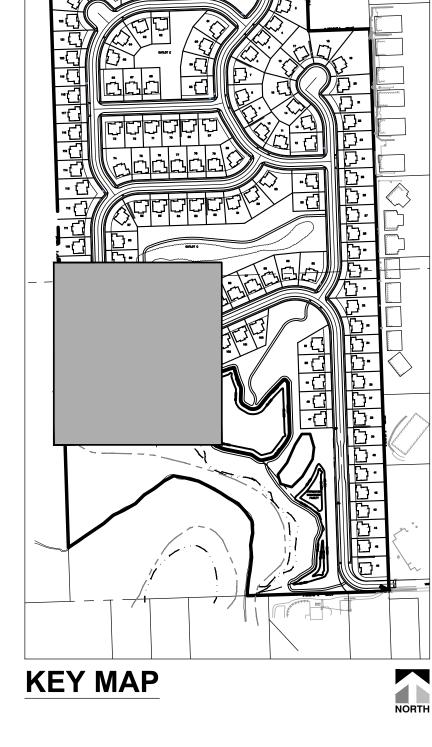
CONCEPT PLANT SCHEDULE

STORMWATER AREA NATIVE CANOPY TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING
93

STORMWATER AREA NATIVE ORNAMENTAL TREE
SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING

EXISTING EVERGREEN TREE TO BE PRESERVED STORMWATER AREA SHRUB
SEE WETLANDS AND NATIVE AREA PLANTING PLANTING PLAN AND LOCATIONS OF TREES/SHRUBS SHOWN IN THE STORMWATER MANAGEMENT AREA SUBJECT TO CHANGE. PLANS TO BE PREPARED BY V3. QUANTITIES

OF TREES/SHRUBS WILL REMAIN AS SHOWN, THOUGH PLACEMENT MAY DIFFER.



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PROJ. MGR.: MN 03/14/25 <u>1"=40'</u> SCALE: SHEET

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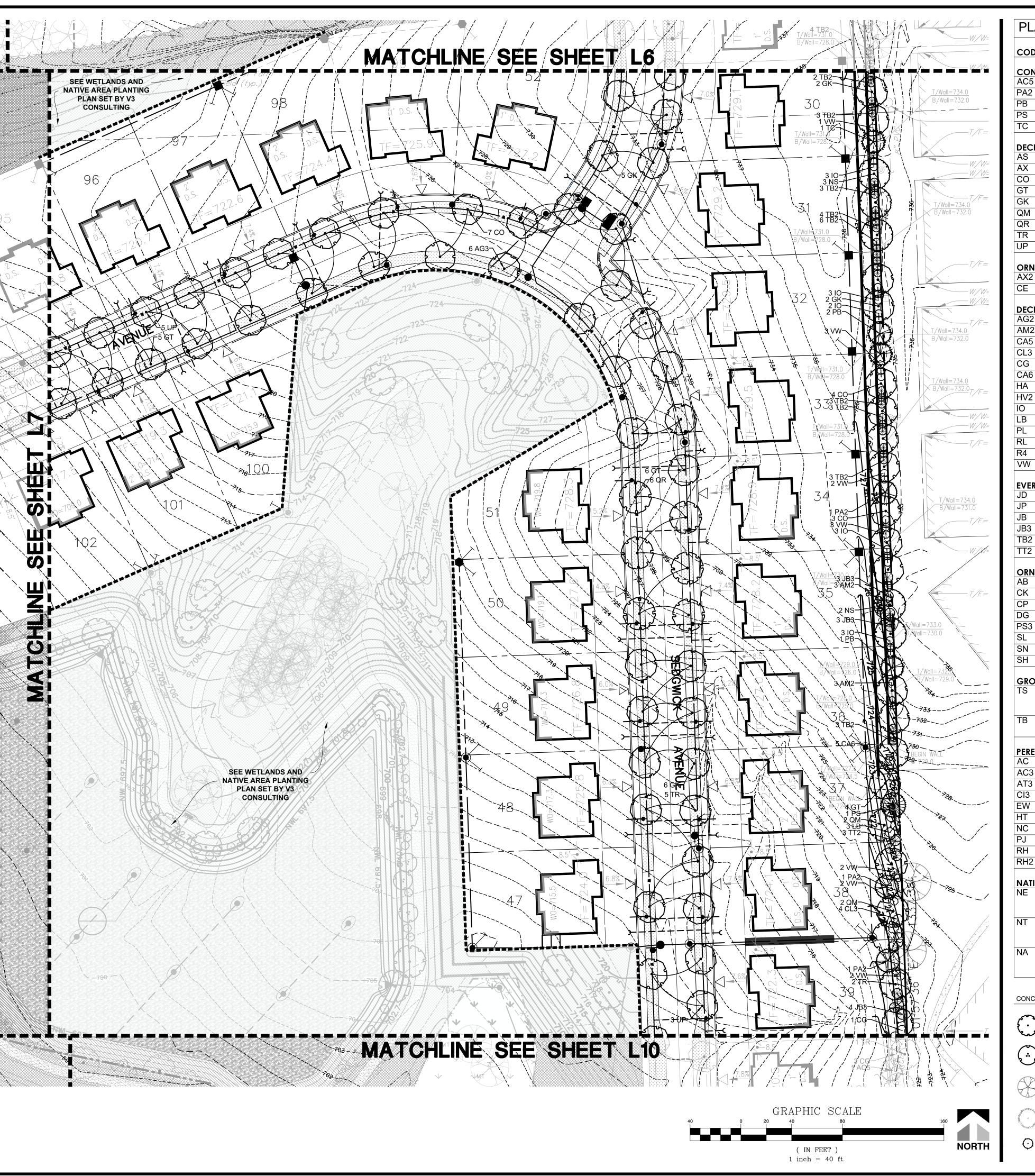
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LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

REMAIN AS SHOWN, THOUGH

PREPARED BY V3. QUANTITIES

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OF TREES/SHRUBS WILL

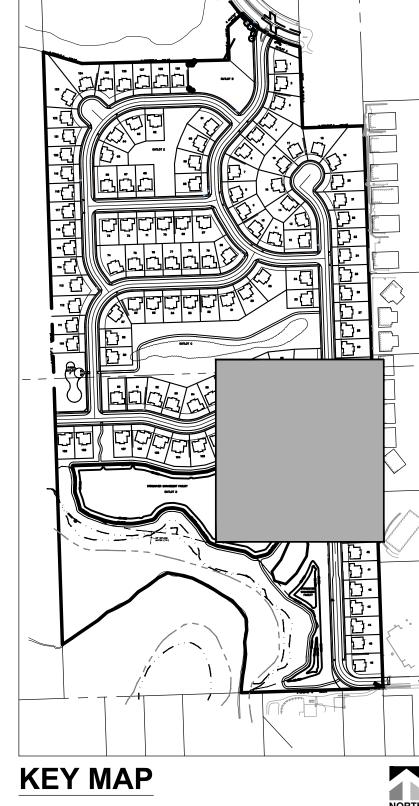
PLACEMENT MAY DIFFER.

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SEE WETLANDS AND NATIVE AREA PLANTING
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08/15/25 REVISED PER NEW BMP AT ENTR 05/12/25 REVISED PER VILLAGE COMMENTS

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PROJ. MGR.: MN 03/14/25 1"=40' SCALE: SHEET L8 of L14

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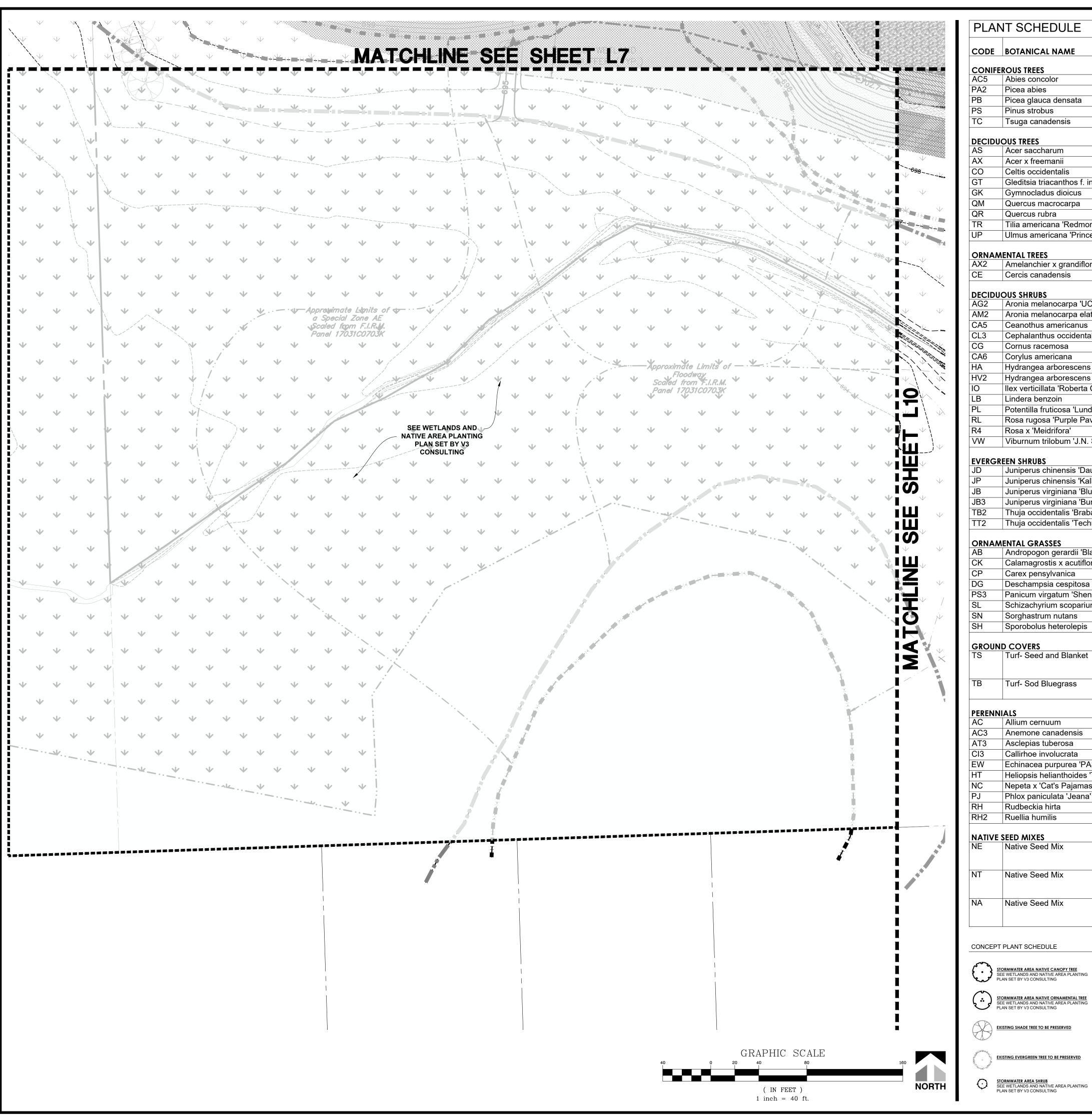
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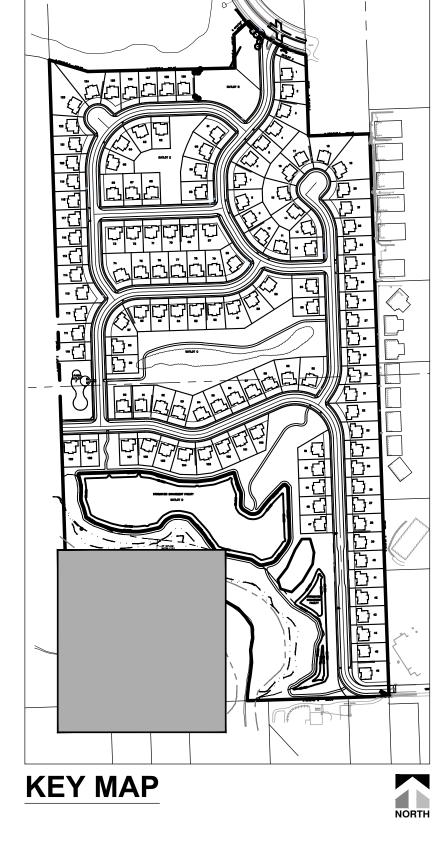
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L9 of L14 PUL.OPIL04

PROJ. MGR.: MN PROJ. ASSOC.: MN 03/14/25 <u>1"=40'</u> SCALE: SHEET

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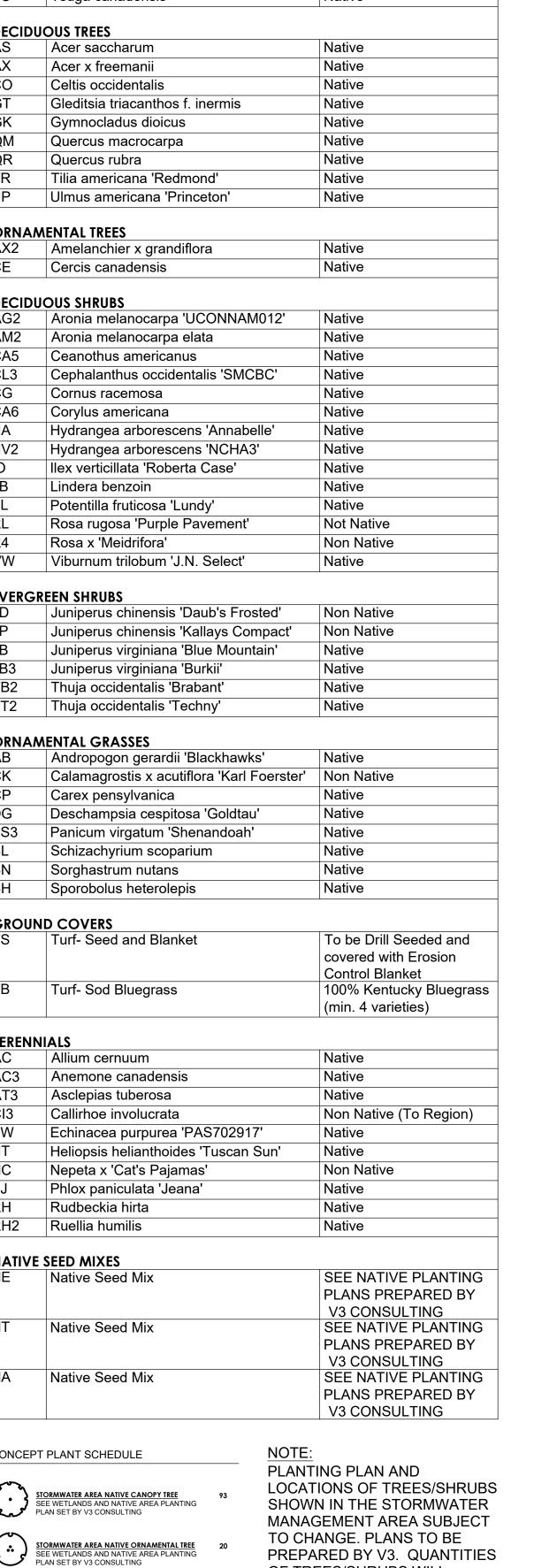
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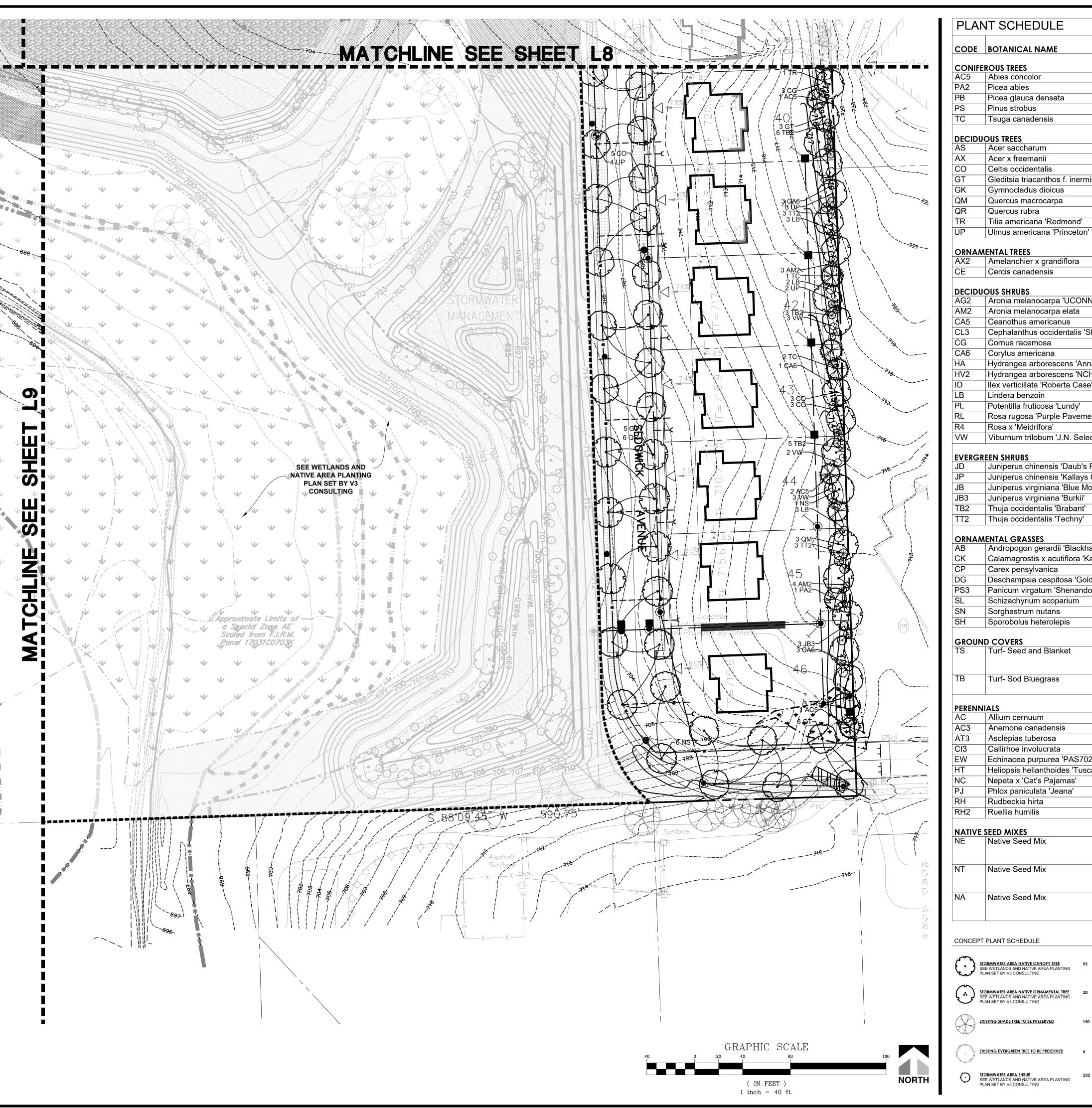


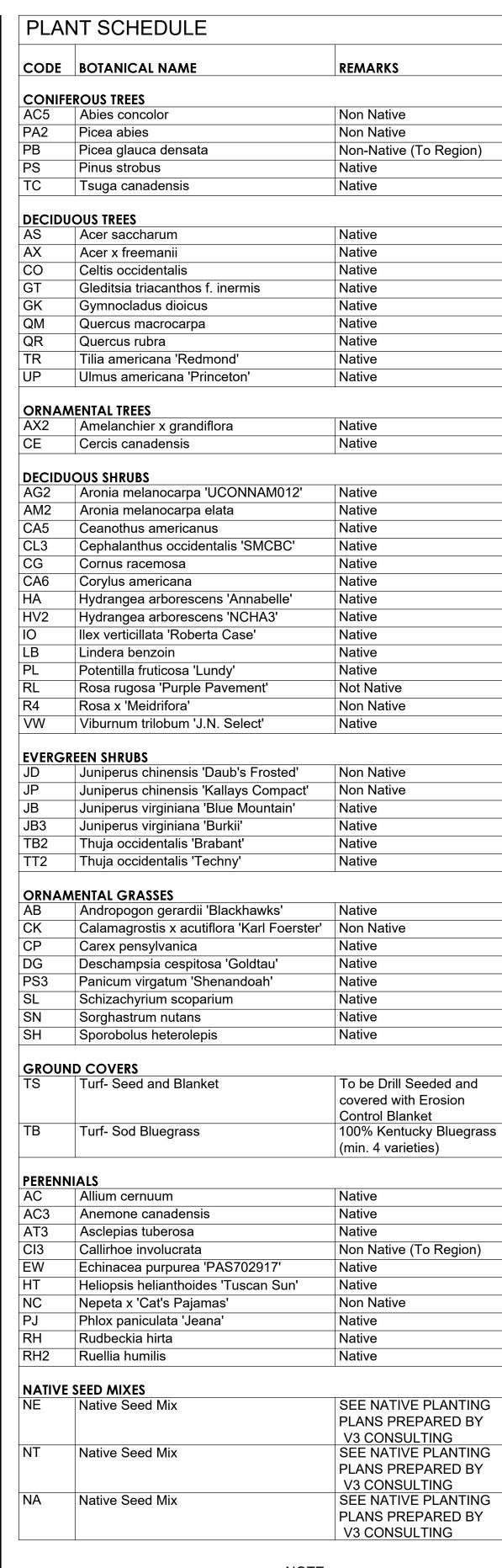
PREPARED BY V3. QUANTITIES

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LOCATIONS OF TREES/SHRUBS

SHOWN IN THE STORMWATER

MANAGEMENT AREA SUBJECT

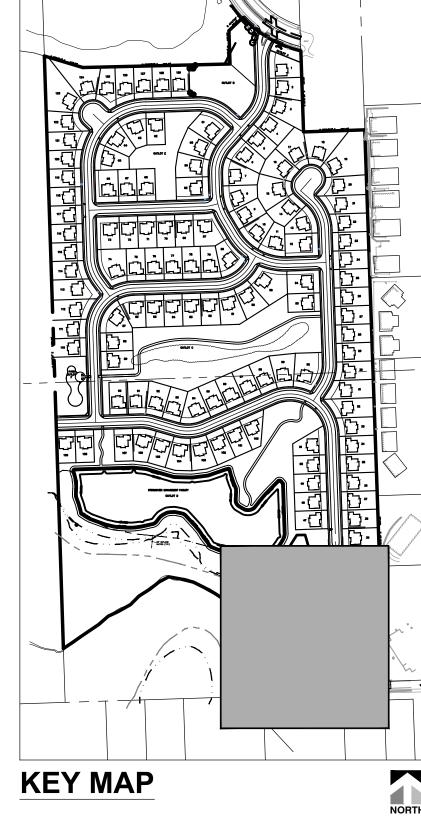
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03/14/25 <u>1"=40'</u> SCALE: SHEET

PUL.OPIL04

ILLINOIS

ORLAND PARK,

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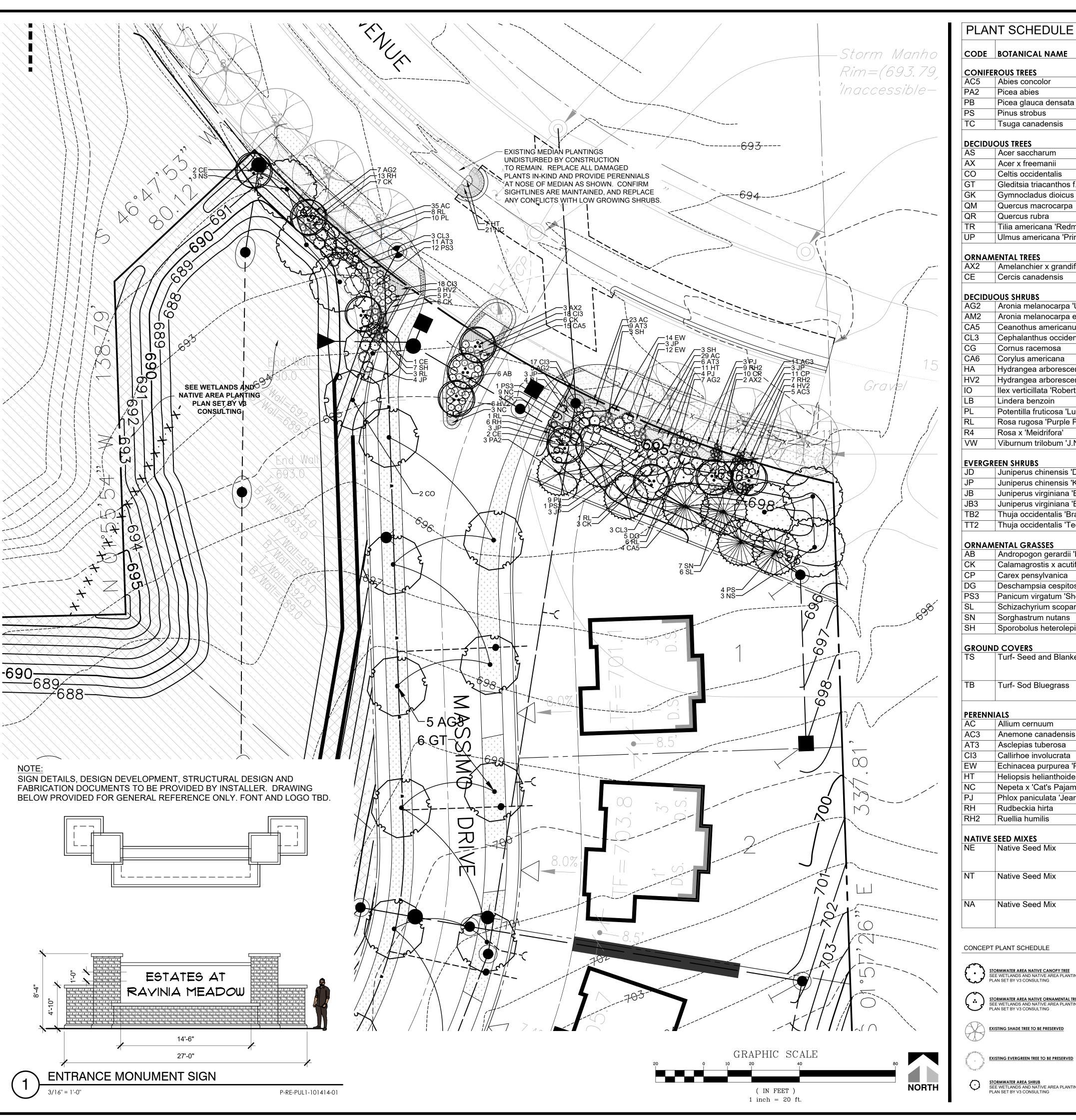
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LOCATIONS OF TREES/SHRUBS

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MANAGEMENT AREA SUBJECT

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SEE WETLANDS AND NATIVE AREA PLANTING
PLAN SET BY V3 CONSULTING

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LANDSCAPE

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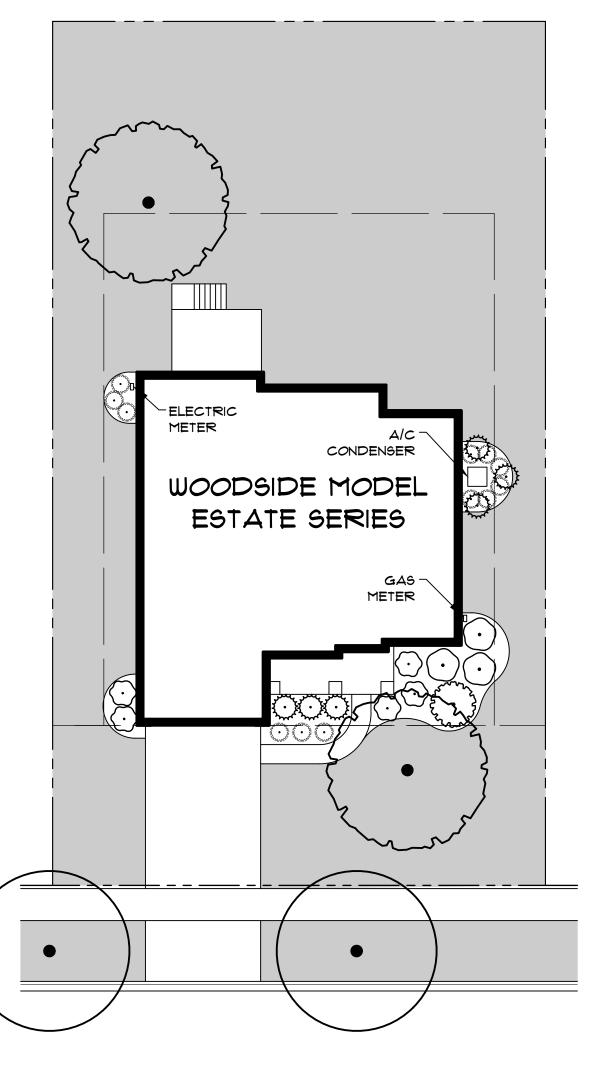
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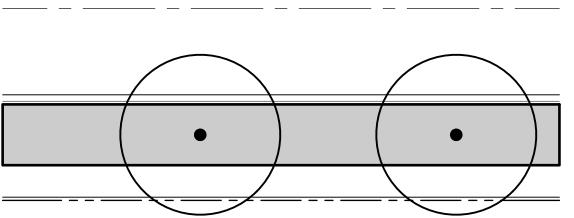
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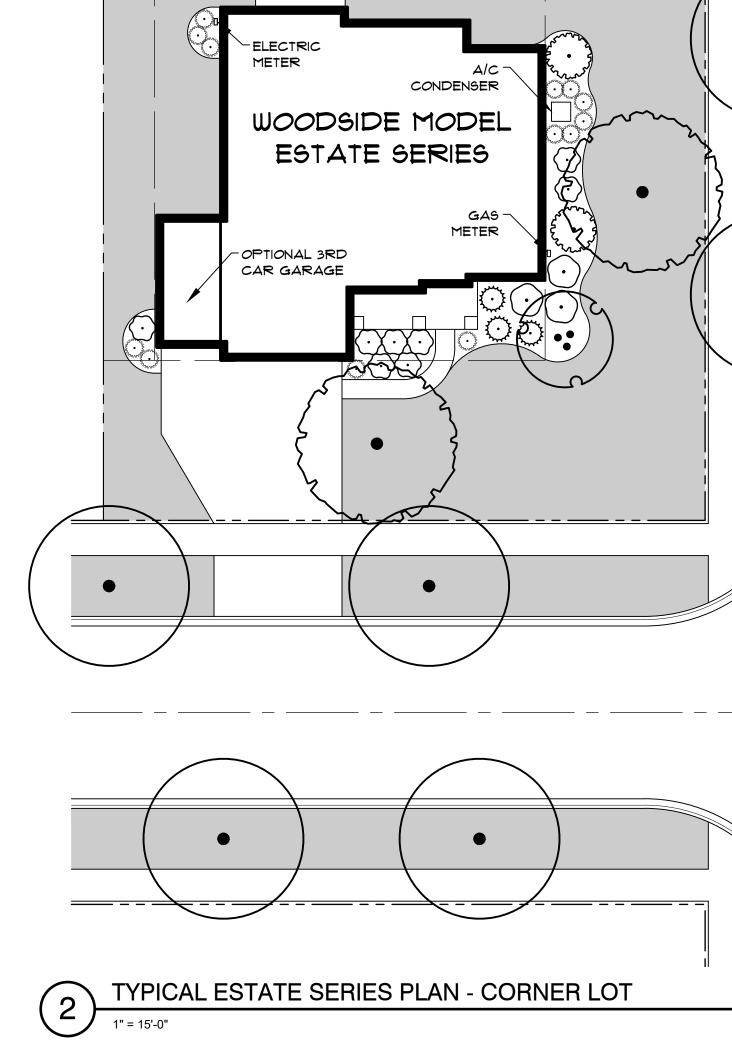
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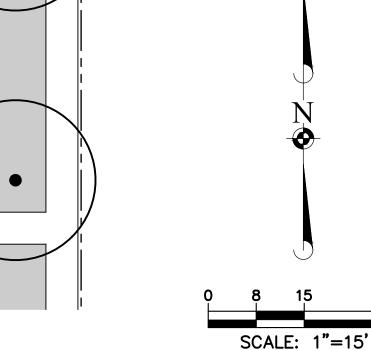
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RUSSIAN SAGE

OBEDIENT PLANT

SALVIA

SEDUM

ASTER

BLACK EYED SUSAN

WOODLAND/GARDEN PHLOX

Suggested Plant List

Acer rubrum Acer saccharum Acer x freemanii Aesculus glabra Betula nigra 'Cully Improved' Celtis occidentalis Gleditsia tricanthos inermis Gymnocladus dioicus Liriodendron tulipifera Quercus alba Quercus bicolor Quercus macrocarpa

RED MAPLE SUGAR MAPLE FREEMAN MAPLE OHIO BUCKEYE RIVER BIRCH **HACKBERRY** HONEY LOCUST KENTUCKY COFFEETREE TULIP POPLAR WHITE OAK SWAMP WHITE OAK **BUR OAK** RED OAK

Quercus rubra AMERICAN LINDEN Tilia americana Ulmus americana 'Princeton' PRINCETON AMERICAN ELM

EVERGREEN/ CONIFER TREES:

Juniperus viriniana Picea abies* Picea glauca densata* Picea pungens* Pinus strobus Taxodium distichum* Thuja occidentalis

EASTERN RED CEDAR NORWAY SPRUCE BLACK HILLS SPRUCE COLORADO BLUE SPRUCE WHITE PINE BALD CYPRESS ARBORVITAE EASTERN HEMLOCK** Tsuga canadensis

ORNAMENTAL TREES

APPLE SERVICEBERRY Amelanchier x grandiflora

Carpinus caroliniana Cercis canadensis Crataegus crus-galli inermis Hamamelis virginiana Malus spp.* Ostrya virginiana Syringa reticulata*

Viburnum prunifolium BLACKHAW VIBURNUM LARGE DECIDUOUS SHRUBS: Aronia melanocarpa

BLACK CHOKEBERRY RED TWIG DOGWOOD Cornus sericea PANICLE HYDRANGEA Hydrangea paniculata* Hydrangea quercifolia* OAKLEAF HYDRANGEA** **WINTERBERRY** llex verticillata NORTHERN BAYBERRY Myrica pensylvanica* NINEBARK Physocarpus opulifolius KOREANSPICE VIBURNUM Viburnum carlesii* ARROWWOOD VIBURNUM Viburnum dentatum* Viburnum lentago NANNYBERRY

AMERICAN HORNBEAM

COCKSPUR HAWTHORN

COMMON WITCH HAZEL*

CRABAPPLE VARIETIES

JAPANESE TREE LILAC

AMERICAN HOPHORNBEAM

REDBUD

LARGE EVERGREEN SHRUBS: Juniperus ch. 'Sea Green'* Juniperus ch. 'Fairview'*

SEA GREEN JUNIPER FAIRVIEW UPRIGHT JUNIPER ARBORVITAE Thuja occidentalis

MEDIUM DECIDUOUS SHRUBS: SUMMERSWEET Clethra alnifolia* HEDGE COTONEASTER Cotoneaster lucidus*

SMALL DECIDUOUS SHRUBS: Ceanothus americanus Fothergilla gardenii* Potentilla fruticosa

Athyrium filix-femina

Bouteloua curtipendula

Chasmanthium latifolium

Deschampsia cespitosa

Diervilla x

Fothergilla major*

Itea virginica*

Syringa spp*

Pinus mugo*

Taxus x media*

Weigela florida*

Buxus x 'Glencoe'*

Juniperus horizontalis

Rosa x*

Hydrangea arborescens

Rhus aromatica 'Gro-Low'

Sorbaria sorbifolia 'Sem' *

SMALL EVERGREEN SHRUBS:

Juniperus chinensis 'Kallay'*

Hypericum prolificum

DWARF FOTHERGILLA** CINQUEFOIL **ORNAMENTAL GRASSES & FERNS** SIDE OATS GRAMMA Calamagrostis 'Karl Foerster'* FEATHER REED GRASS **NORTHERN SEA OATS***

TUFTED HAIR GRASS

KODIAK HONEYSUCKLE

FOTHERGILLA**

ST. JOHN'S WORT

GRO-LOW SUMAC

ROSE VARIETIES

SEM FALSE SPIRAEA **

CREEPING JUNIPER

NEW JERSEY TEA

KALLAY'S COMPACT JUNIPER

HYDRANGEA**

SWEETSPIRE

LILAC

WEIGELA

BOXWOOD

MUGO PINE

DENSE YEW

Matteuccia struthiopteris Miscanthus sinensis* Osmunda cinnamomea Panicum virgatum Polystichum acrostichoides Schizachyrium scoparium Sorghastrum nutans Sporobolus heterolepis Sesleria autumnalis*

PERENNIALS: Asarum canadense Allium cernuum Asclepias tuberosa Callirhoe involucrta* Coreopsis spp. Echinace spp. Geranium spp.* Helianthus spp. Hemerocallis spp. Heuchera spp* Hibiscus spp.* Hosta spp. * Iris virginica Lavandula spp. Liatris spp. Monarda spp.

Nepeta spp.*

Penstemon spp.

Perovskia atriplicifolia* Phlox divaricata/paniculata Physostegia virginiana Rudbeckia spp. Salvia nemorosa* Sedum spp.*

AUTUMN MOOR GRASS WILD GINGER** NODDING ONION **BUTTERFLY MILKWEED** PURPLE POPPY MALLOW COREOPSIS PURPLE CONE FLOWER GERANIUM SUNFLOWER DAYLILY CORAL BELLS** HIBISCUS HOSTA** IRIS LAVENDER **BLAZING STAR**

OSTRICH FERN

MAIDEN GRASS

CINNAMON FERN

CHRISTMAS FERN

LITTLE BLUESTEM

PRAIRIE DROPSEED

SWITCH GRASS

INDIAN GRASS

BEE BALM

CATMINT

BEARDTONGUE

Symphyotrichum spp.

* Not Native to Chicagoland Region ** Shade Tolerant

Planting Requirements

INTERIOR LOT MIN. PLANTING

Requirement:

- 1. Two (2) 2.5" Cal. Shade Trees or Two (2) 6' Ht. Evergreen/ Conifer Trees (or a mix),
- 2. One (1) Large Deciduous or Evergreen Shrub (or mix), Mature width 7'-8', 24" ht. at time of planting, &;
- 3. Three (3) Medium Deciduous Shrubs, Mature width ±5', 24" ht. at time of planting, &;
- 4. Five (5) Small Deciduous Shrubs, Mature width 3-4', 18" ht. at time of planting, &;
- 5. Three (3) Evergreen Shrubs, 24" at time of planting, &;
- 6. Twelve (12) Ornamental Grasses, Ferns or Perennials (or mix), 1 gal. container at time of planting (6 to screen AC Condenser and 3 to screen each utility meter if other screening isn't provided).

CORNER LOT MIN. PLANTING

Requirement:

- 1. Three (3) 2.5" Cal. Shade Trees or Three (3) 6' Ht. Evergreen/ Conifer Trees (or a
- 2. One (1) 6' ht. Ornamental Tree, &;
- 3. Two (2) Large Deciduous or Evergreen Shrubs (or mix), Mature width 7'-8', 24" ht. at
- 4. Three (3) Medium Deciduous Shrubs, Mature width ±5', 24" ht. at time of planting, &;
- 5. Eight (8) Small Deciduous or Evergreen Shrubs (or mix), Mature width 3-4', 18" ht. at
- 6. Three (3) Evergreen Shrubs, 24" at time of planting, &;
- 7. Thirteen (13) Ornamental Grasses, Ferns or Perennials (or mix), 1 gal. container at time of planting (6 to screen AC Condenser and 3 to screen each utility meter if other screening isn't provided).

NOTE: All Parkways shall have min. 4" topsoil and sod

NOTE: Adjacent common area landscaping trees, shrubs, etc. are not shown on this exhibit. See Common Area Landscape plans for additional plantings.

NOTE: Typical Foundation Planting Plans show the general layout, plant material suggestions, and design intent. Contractor to adjust as required for unit mix, front and sideyard setback requirements, and adjacent plantings. Minimum plantings as noted above must be provided.

Plant Diversity Requirements

NOTE: Planting selections should be conducted to ensure that each lot meets the landscape ordinance's diversity requirements as shown in the table below. Plant selections should follow the palette. If any plant materials are provided that are not on this list, they must be native to the Chicagoland Region as listed in "Plants of the Chicago Region" by Swink and Wilhelm. Minimum of 30% of all plant materials must be native.

Each plant type must meet diversity requirements as outlined in Orland Park's landscape ordinance and as shown in table below.

Table 6-305.E.6.b(A) - Plant Diversity Requirements							
Total Number of Plants per Plant Type	Maximum % of Any Species	Minimum % of Any Species	% of Native Species Per Plant Type	Minimum Number of Species			
1-4	100%	N/A	30%	1			
5-10	60%	40%	30%	2			
11-15	45%	20%	30%	3			
16-75	40%	10%	30%	5			
76-500	30%	5%	30%	8			
501-1000	25%	5%	30%	10			
1000+	15%	5%	30%	15			
The overall number of trees and shrubs required for a site shall be comprised of not less than 30% evergreen and 70% deciduous, plus or minus 5%							

Legend



Street Trees 2.5" Caliper



Shade Trees or Evergreen/ Conifer Trees 2.5" Caliper (Shade Tree) or 6' Height (Evergreen Tree)



Ornamental Trees 6' Height or 2" Caliper

See Sheet XXX for Details

Large Deciduous or Evergreen Shrub: 24" Height

Medium Deciduous Shrub: 24" Height

Small Deciduous Shrub: 18" Height

Small Evergreen Shrub: 24" Height

Ornamental Grass, Fern or Perennial: 1 Gallon Container

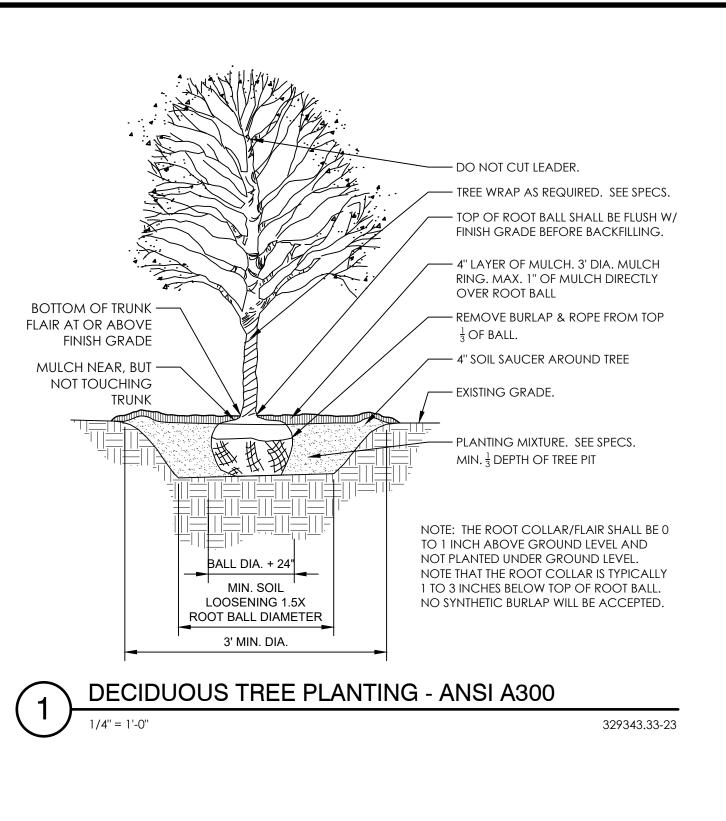
Turf: Sod (All residential lots and parkways)

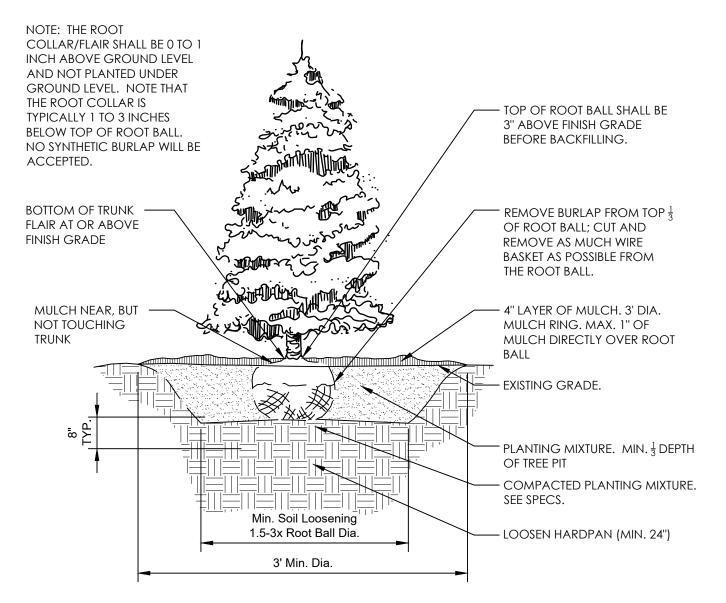
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PROJ. MGR.: MN PROJ. ASSOC.: MN 03/14/25 AS NOTED SCALE:

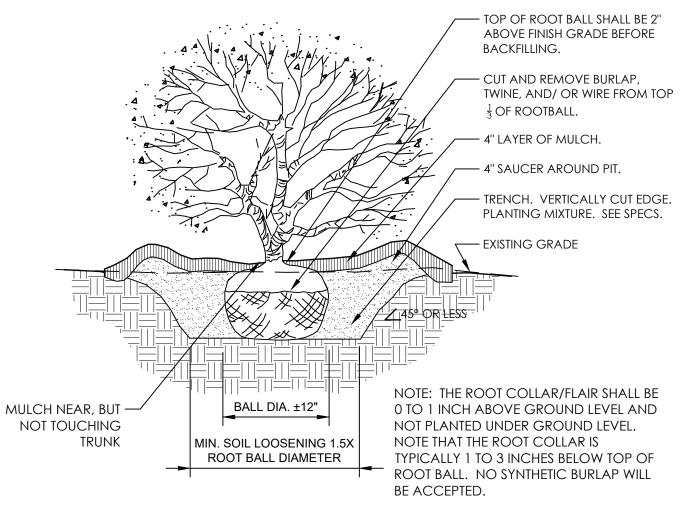
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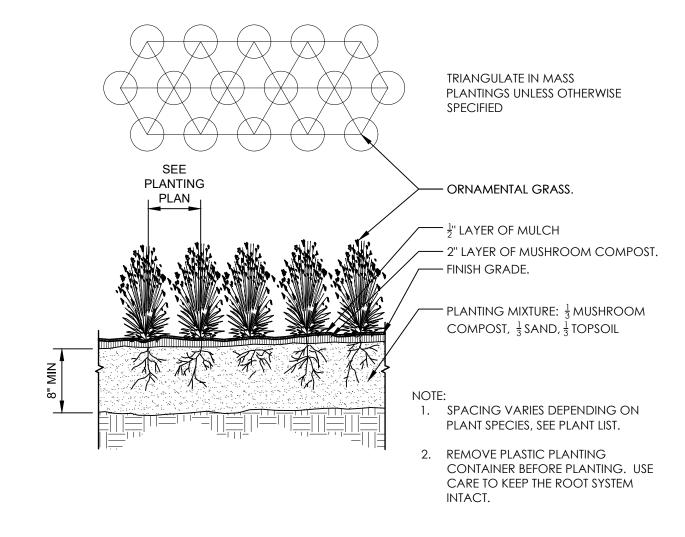
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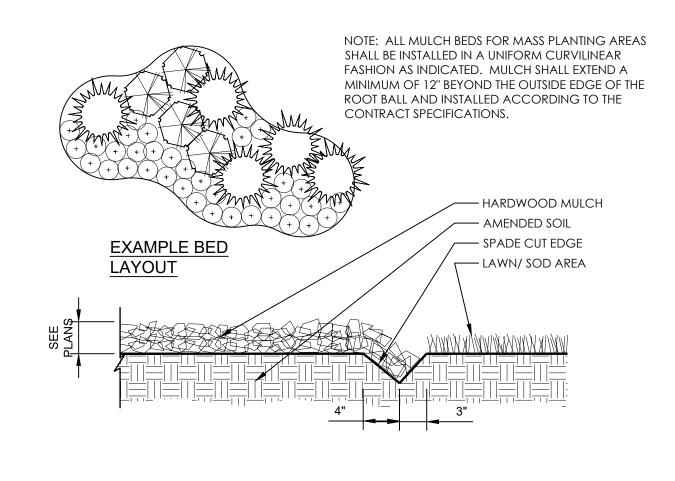


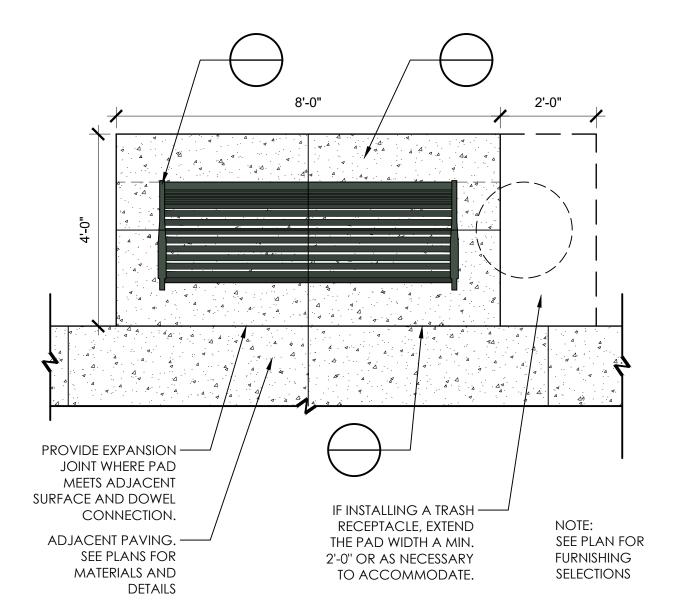
SHRUB PLANTING DETAIL - ANSI A300

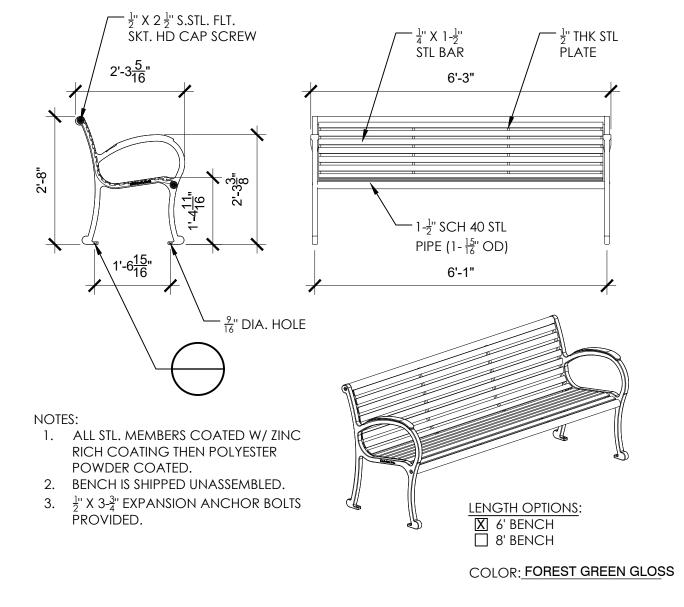
ORNAMENTAL GRASS PLANTING

329313-01

TRIANGULATE IN MASS PLANTINGS UNLESS OTHERWISE **SPECIFIED PLANTING** - PERENNIALS , PLAN , —— 2" LAYER OF MUSHROOM COMPOST. — FINISH GRADE. PLANTING MIXTURE: 1/2 MUSHROOM COMPOST, $\frac{1}{3}$ SAND, $\frac{1}{3}$ TOPSOIL SPACING VARIES DEPENDING ON PLANT SPECIES, SEE PLANT LIST. REMOVE PLASTIC PLANTING CONTAINER BEFORE PLANTING. USE CARE TO KEEP THE ROOT SYSTEM









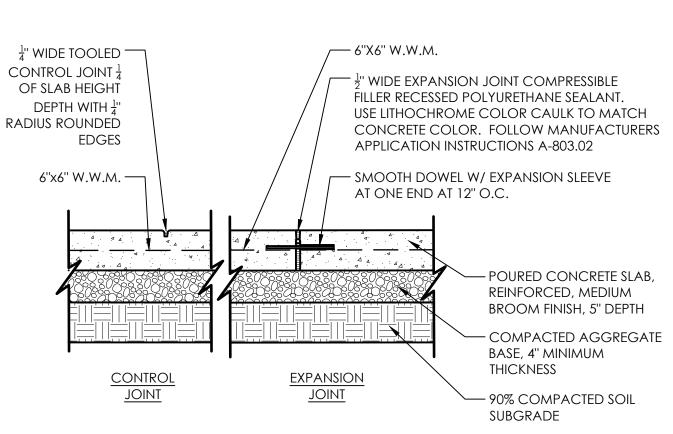


CONCRETE PAD FOR FURNISHINGS

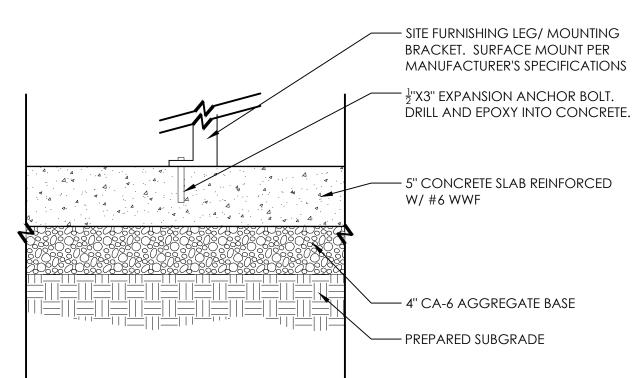
BENCH- DUMOR 160 SERIES, 6' (160-60)

129343.13-15

— #6 W.W.M. — NO. 4 REBAR @ 24" O.C. E.W. CONT. CLASS SI CONCRETE W/ — — TOOLED EDGE MEDIUM BROOM FINISH 4" CA-6 AGGREGATE BASE, -— FINISH GRADE COMPACTED. 1'-0" — COMPACTED SUB-GRADE - EXTEND BASE 12" BEYOND EDGE OF PAVEMENT



EXPANSION JOINTS SHALL CONSIST OF PREMOLDED BITUMINOUS JOINT FILLER. EXPANSION JOINTS 1/2" THICK SHALL BE PROVIDED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS STREET LIGHT STANDARDS AND SIGNPOSTS, ETC., WHICH ARE WITHIN THE SIDEWALK. THE EXPANSION JOINTS SHALL CONSIST OF JOINT FILLER.



FURNISHING SURFACE MOUNT - CONCRETE

REINFORCED CONCRETE EDGE @ SIDEWALK

FX-SI-FX-PAV-10

CONCRETE EXPANSION/ CONTROL JOINTS

PROJ. MGR.: MN PROJ. ASSOC.: MN 03/14/25 AS NOTED SCALE: SHEET

ORLAND PARK, ILLINOIS

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1-01 DESCRIPTION

- A. PROVIDE TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS AS SHOWN AND SPECIFIED.
- THIS WORK INCLUDES:

 1. SPREADING OF TOPSOIL OR SOIL PREPARATION
- 2. TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS
- 3. PLANTING MIXES
- 4. MULCH AND PLANTING ACCESSORIES5. FERTILIZER AND HERBICIDE
- 6. MAINTENANCE
- 7. WARRANTY OF PLANT MATERIAL
- B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS/HER REPRESENTATIVE

1-02 QUALITY ASSURANCE:

- A. COMPLY WITH SITE WORK REQUIREMENTS
- B. PLANT NAMES INDICATED MUST COMPLY WITH 'STANDARDIZED PLANT NAMES' AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES WHICH ARE NOT LISTED SHOULD CONFORM WITH THOSE GENERALLY ACCEPTED BY THE NURSERY TRADE. STOCK SHOULD BE LEGIBLY
- C. ALL PLANT MATERIALS SHALL CONFORM TO THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS), LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON, D.C.
- D. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT FOR A MINIMUM OF TWO FULL GROWING SEASONS.
- E. ADHERE TO SIZING REQUIREMENTS AS LISTED IN THE PLANT LIST AND/OR BID FORM FOR THE PROJECT. A PLANT SHALL BE MEASURED IN ITS NATURAL STANDING POSITION.
- F. STOCK THAT IS FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE SHOWN. WITH PERMISSION OF THE LANDSCAPE ARCHITECT, SUBSTITUTION FROM THE SPECIFIED PLANT LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND CHARACTER TO THAT OF THE SPECIFIED MATERIAL WILL BE APPROVED. STOCK WHICH IS LARGER THAN THAT WHICH IS SPECIFIED IS ACCEPTABLE WITH PERMISSION OF THE LANDSCAPE ARCHITECT, PROVIDING THERE IS NO ADDITIONAL COST AND THAT THE LARGER PLANT MATERIAL WILL NOT BE CUT DOWN IN ORDER TO CONFORM TO THE SIZE INDICATED.
- G. ALL SHRUBS SHALL BE DENSE IN FORM. SHRUB LINERS DO NOT MEET THESE SPECIFICATIONS. SHRUBS SPECIFIED BY HEIGHT SHALL HAVE A SPREAD THAT IS EQUAL TO THE HEIGHT MEASUREMENT. SHRUBS WHICH ARE SPECIFIED BY SPREAD SHALL EXHIBIT THE NATURAL GROWTH HABIT OF THE PLANT BY HAVING A GREATER SPREAD THAN HEIGHT.
- H. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO SELECT AND TAG ALL PLANT MATERIAL AT THE NURSERY PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO INSPECT PLANT MATERIAL FOR SIZE AND CONDITION OF ROOT SYSTEMS, THE PRESENCE OF INSECTS AND DISEASES, INJURIES AND LATENT DEFECTS (DUE TO CONTRACTOR NEGLIGENCE OR OTHERWISE), AND TO REJECT UNACCEPTABLE PLANT MATERIAL AT ANY TIME DURING PROGRESS OF THE PROJECT.
- I. CONTAINER GROWN DECIDUOUS AND/OR EVERGREEN SHRUBS WILL BE ACCEPTABLE IN LIEU OF BALLED AND BURLAPPED SHRUBS SUBJECT TO SPECIFIED LIMITATIONS FOR CONTAINER GROWN STOCK. SIZE OF CONTAINER GROWN MATERIAL MUST CONFORM TO SIZE/HEIGHT REQUIREMENTS OF PLANT LIST.

1-03 DELIVERY, STORAGE & HANDLING:

- A. FERTILIZER SHALL BE DELIVERED IN ORIGINAL, UNOPENED AND UNDAMAGED PACKAGING. CONTAINERS SHALL DISPLAY WEIGHT, ANALYSIS AND MANUFACTURER'S NAME. STORE FERTILIZER IN A MANNER THAT WILL PREVENT WETTING AND DETERIORATION.
- B. TAKE ALL PRECAUTIONS CUSTOMARY CONCERNING PROPER TRADE PRACTICE IN PREPARING PLANTS FOR TRANSPORT. PLANTS SHALL BE DUG, PACKED AND TRANSPORTED WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT. ALL PLANTS MUST BE PROTECTED FROM DRYING OUT. IF PLANT MATERIAL CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, SAID MATERIAL SHOULD BE PROPERLY PROTECTED IN A MANNER THAT IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT. HEELED-IN PLANTS MUST BE WATERED DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD STRIP BARK OR BREAK OR SHEAR BRANCHES.
- C. PLANT MATERIAL TRANSPORTED ON OPEN VEHICLES SHOULD BE COVERED WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.
- D. DRY, LOOSE TOPSOIL SHALL BE PROVIDED FOR PLANTING BED MIXES. MUDDY OR FROZEN TOPSOIL IS UNACCEPTABLE AS WORKING WITH MEDIUM IN THIS CONDITION WILL DESTROY ITS STRUCTURE, MAKING ROOT DEVELOPMENT MORE DIFFICULT.

1-04 PROJECT CONDITIONS:

- A. NOTIFY LANDSCAPE ARCHITECT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.
- B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. UTILITIES CAN BE LOCATED AND MARKED (IN ILLINOIS) BY CALLING J.U.L.I.E. AT (800)892-0123.
- C. THE CONTRACTOR SHALL PROVIDE, AT HIS/HER OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, PLUS SHRUBS, LAWNS, PAVED AREAS AND OTHER LANDSCAPED AREAS THAT ARE TO REMAIN INTACT. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. THE OWNER DESIRES TO PRESERVE THOSE TREES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED ON THE DRAWINGS. THE CONTRACTOR SHALL ERECT PROTECTIVE TREE FENCING AND TREE ARMOR AT LOCATIONS INDICATED ON THE DRAWINGS AND AROUND ALL TREES ON SITE WHICH ARE TO BE PRESERVED. PROTECTIVE FENCING SHALL BE ERECTED BETWEEN THE LIMITS OF CONSTRUCTION AND ANY TREE PRESERVATION AREAS SHOWN ON THE DRAWINGS.
- E. A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF SIZES, QUANTITIES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS AND ON THE BID FORM. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

1-05 PRELIMINARY ACCEPTANCE:

A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE.

MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AND PLANT MATERIAL AND ANNUAL FLOWER MAINTENANCE.

1-06 WARRANTY:

A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTEED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE. PLANT MATERIALS WILL BE WARRANTEED AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. THE WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

- A. PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ONLY SOUND, HEALTHY, VIGOROUS PLANTS WHICH ARE FREE FROM SUNSCALD INJURIES, DISFIGURING KNOTS, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION SHALL BE PROVIDED. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN PATCHES.
 - 1. BALLED AND BURLAPPED PLANTS SHALL HAVE A FIRM NATURAL BALL OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS A ROOT SYSTEM NECESSARY FOR A FULL RECOVERY OF THE PLANT. ROOT BALL SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS). ROOT BALLS THAT ARE CRACKED OR MUSHROOMED ARE UNACCEPTABLE.
 - 2. CONTAINER GROWN STOCK SHOULD BE GROWN FOR AN AMOUNT OF TIME THAT IS OF SUFFICIENT LENGTH FOR THE ROOT SYSTEM TO HAVE DEVELOPED ENOUGH TO HOLD ITS SOIL TOGEHTER, FIRM AND WHOLE. PLANTS WILL NOT BE LOOSE IN THEIR CONTAINERS, NOR SHALL THEY BE POT-BOUND AND ALL CONTAINER GROWN STOCK WILL COMPLY WITH THE SIZES STATED ON THE PLANT LIST.
 - 3. NO EVIDENCE OF WOUNDS OR PRUNING CUTS SHALL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
 - 4. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND. THE HEIGHT OF EVERGREEN TREES ARE DETERMINED BY MEASURING FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER TREES ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES.
 - 5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST. THE HEIGHT MEASUREMENT SHALL BE TAKEN FROM GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT, NOT THE LONGEST BRANCH. SINGLE STEM OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE FLUSHED WITH GROWTH AND HAVE GOOD FORM TO THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.

2-02 ACCESSORIES:

- 1. TOPSOIL:

 1. TOPSOIL SHALL BE FERTILE, NATURAL TOPSOIL OF A LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL. TOPSOIL SHALL BE REASONABLY FREE FROM CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS WITH A PH BETWEEN 6.5 TO 7.0.
- B. TOPSOIL FOR SEED AREAS SHALL BE A MINIMUM OF 6".
- C. SOIL AMENDMENTS SHALL BE AS FOLLOWS:1. FOR TREES AND SHRUBS THE PLANT PIT WILL BE BACKFILLED WITH PULVERIZED
 - 2. FOR PERENNIALS AND ORNAMENTAL GRASSES THE SOIL MIXTURE WILL BE AS FOLLOWS: CM-63 GENERAL PURPOSE PEAT BASED MIX AS SUPPLIED BY MIDWEST TRADING. TOP BEDS WITH 8" OF CM-63 AND TILL INTO EXISTING BEDS TO A DEPTH OF 8". SOIL MIXTURES ARE AVAILABLE FROM MIDWEST TRADING. MIDWEST TRADING, ST. CHARLES. IL 60174 (630) 365-1990
- D. FERTILIZER:
 - FOR TREES AND SHRUBS USE: 14-4-6 BRIQUETTES 17 G OR EQUIVALENT AVAILABLE FROM ARTHUR CLESEN, INC. FOLLOW MANUFACTURER'S RECOMMENDATION FOR APPLICATION. ARTHUR CLESEN, INC. 543 DIENS DRIVE, WHEELING, IL 60090 (847)537-2177
 - 2. FOR TURF AREAS USE 6-24-16 CLESEN FAIRWAY WITH MICRONUTRIENTS WITH MINOR ELEMENTS 3.0 % S, .02% B, .05% CU, 1.0% FE, .0006% MO, .10% MN AVAILABLE FROM ARTHUR CLESEN OR APPROVED EQUAL.
- E. HERBICIDE:
- 1. ROUND-UP OR APPROVED EQUAL
- F. MULCH:
 - 1. BARK MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK WHICH HAS BEEN SCREENED AND IS FREE OF ANY GREEN FOLIAGE, TWIGS, ROCKS, SAWDUST, WOOD SHAVINGS, GROWTH OR GERMINATION INHIBITING INGREDIENTS, OR OTHER FOREIGN MATERIALS. BARK MULCH IS AVAILABLE FROM MIDWEST TRADING.
 - 2. MUSHROOM COMPOST AS AVAILABLE FROM MIDWEST TRADING.
- G. WATER:
 - 1. WATER SERVICE WILL BE AVAILABLE ON THE SITE, WITH THE COST OF WATER BEING PAID BY THE OWNER. TRANSPORTING OF THE WATER FROM THE SOURCE TO THE WORK AREAS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ALL NECESSARY HOSE, PIPING, TANK TRUCK, ETC. SHALL BE SUPPLIED BY THE LANDSCAPE CONTRACTOR.
- H. GUYING:1. STAKES: 5/8" X 40" STEEL EYE ANCHOR WITH 4" HELIX
 - 2. CABLE:
 a. TREES UNDER 5": FLEXIBLE 1/8" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR
 - APPROVED EQUAL

 b. TREES 5" AND OVER: FLEXIBLE 3/16" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL.
 - 3. TURNBUCKLES: 5/16", EYE AND EYE, WITH 4" TAKEUP.
 - 4. HOSE: NEW TWO-PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D.
- I. TREE WRAP: BURLAP TREE WRAP 4" WIDE.
- PART 3 INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

J. TWINE: SOFT NURSERY JUTE.

A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3-02 PREPARATION:

- A. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF 'HORTICULTURE STANDARDS OF NURSERYMEN, INC.' AND AS DETAILED ON THESE DRAWINGS.
- B. PLANTING SHALL BE PERFORMED BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.
- C. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED CLEARLY.
- D. APPLY ROUND-UP OR APPROVED EQUIVALENT TO KILL ANY EXISTING VEGETATION IN ALL AREAS TO BE PLANTED. CONFIRM LENGTH OF WAITING PERIOD BETWEEN CHEMICAL APPLICATION AND PLANT INSTALLATION WITH MANUFACTURER. DO NOT BEGIN PLANTING OPERATIONS UNTIL PRESCRIBED POST-APPLICATION WAITING PERIOD HAS ELAPSED. TAKE EXTREME CARE TO AVOID CHEMICAL DRIFT TO ADJOINING PROPERTIES OF LANDSCAPE PLANTINGS
- E. PRIOR TO ALL PLANTING, ROTOTILL ALL AREAS TO BE LANDSCAPED TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM DEPTH OF 12". ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES AND CONTOUR. CHANGES IN GRADE ARE TO BE GRADUAL. BLEND SLOPES INTO LEVEL AREAS. REMOVE ALL DEBRIS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVE ALL CONCRETE SLAG LARGER THAN 2" IN DIAMETER.
- F. TOPSOIL SHALL BE SPREAD OVER THE SITE AT A MINIMUM DEPTH OF 6". FOR THOSE AREAS WHICH ARE INDICATED AS PRAIRIE OR NATURAL AREAS ON THE DRAWINGS, A TOPSOIL DEPTH OF 18" IS RECOMMENDED WHERE POSSIBLE.
- G. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PREPARE ALL SEEDED AREAS BY DISKING AND RAKING PRIOR TO PLANTING SEED. SOIL SHALL BE LOOSENED AND SCARIFIED TO A MINIMUM DEPTH OF 6". FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
- H. LOCATE ALL PLANT MATERIAL AS INDICATED OR AS APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF OBSTRUCTIONS ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS, THEN DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.
- PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS. HOLES SHALL BE HAND DUG OR MACHINE DUG. GREAT CARE WILL BE TAKEN TO NOT EXCAVATE THE HOLE DEEPER THAN THE ROOT BALL AND THE DIAMETER SHALL BE A MINIMUM OF TWO TIMES THE ROOT BALL WIDTH. REMOVE ANY MATERIALS ENCOUNTERED IN EXCAVATION THAT MAY BE INJURIOUS TO PLANT GROWTH, INCLUDING STONES LARGER THAN 2" IN DIAMETER OR OTHER DEBRIS. SOIL TO BE USED AS BACKFILL SHOULD BE PULVERIZED.
- J. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND ROOT SYSTEMS AND ROOT BALLS OF THE PLANTS. THE MIXTURES ARE OUTLINED IN SECTION B OF PART 2-02.
- K. PRIOR TO PLANTING, PROVIDE ADDITIONAL TOPSOIL TO ALL PLANTING BEDS TO BRING THE FINISH GRADE OF THE BED TO 2" ABOVE LAWN GRADE AND TO FINISH GRADE OF ADJACENT HARD SURFACE GRADES.
- L. ADD 2" THICKNESS OF MUSHROOM COMPOST TO ALL ANNUAL, PERENNIAL AND GROUNDCOVER BEDS. FINISH GRADE BED AND INSTALL PLANTS.

3-03 PLANTING PROCEDURES:

- A. SET PLANT MATERIAL IN THE PLANTING HOLE TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT AND PLUMB. SET PLANT MATERIAL 2" ABOVE THE ADJACENT FINISH GRADE. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE TREATED BURLAP (GREEN). CUT AND REMOVE OR CUT AND FOLD DOWN UPPER HALF OF WIRE BASKET, DEPENDENT UPON TREE SIZE. BACKFILL HOLE BY FIRMLY TAMPING SOIL TO AVOID ANY AIR POCKETS OR VOIDS.
- B. SET BALLED AND BURLAPPED PLANTS IN THE PLANTING HOLE AND COMPACT 8" OF SOIL AROUND THE BASE OF THE BALL. BACKFILL REMAINING SPACE WITH PLANTING MIXTURE. WATER PLANTS IMMEDIATELY AFTER PLANTING TO ELIMINATE ALL VOIDS AND THOROUGHLY SOAK THE PLANT ROOT BALL.
- C. SPACE GROUNDCOVER PLANTS ACCORDING TO DIMENSIONS GIVEN ON THE PLANS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED NUMBER OF PLANTS. PLANT TO WITHIN 18" OF THE TRUNKS OF TREES AND SHRUBS OR AT THE EDGE OF THE PLANT BALL, WHICHEVER IS CLOSEST. PLANT TO WITHIN 12" OF EDGE OF BED.
- D. MULCHING:
- INSTALL 4" DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON DRAWINGS OR PLANTING DETAILS. MULCH SHRUB PLANTING AREAS AS CONTINUOUS BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK; FORM MULCH TO CREATE AN INVERTED CONE AROUND TRUNK.
- 2. MULCH PERENNIAL, GROUNDCOVER AND ANNUAL PLANTING BEDS WITH 2" MUSHROOM COMPOST. WATER MULCHED AREAS THOROUGHLY AFTER PLACING MULCH.
- E. TREE WRAPPING IS NOT REQUIRED, UNLESS THE CONTRACTOR FEELS IT IS NECESSARY DUE TO CHARACTERISTICS OF A PARTICULAR SPECIES OR PAST EXPERIENCE WITH THE SPECIES. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED AS TO WHICH TREES ARE TO BE WRAPPED AND SHALL INSPECT THE TRUNK(S) BEFORE WRAPPING. TREE WRAP WILL NOT BE USED TO COVER DAMAGE OR DEFECTS. WHEN WRAPPING IS DONE, TRUNKS WILL BE WRAPPED SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIED WITH SUITABLE CORD AT THE TOP, BOTTOM AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.
- F. STAKING AND GUYING OF TREES IS OPTIONAL. IF THE CONTRACTOR CHOOSES TO STAKE ALL OR PART OF THE TREES, HE/SHE SHALL USE THE METHOD SPECIFIED IN THE PLANTING DETAILS. ONE (1) STAKE IS TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4' HEIGHT AND UNDER. TWO (2) STAKES ARE TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE. THE ROOT BALL WILL NOT BE PIERCED WITH A STAKE. STAKES ARE TO BE DRIVEN AT LEAST EIGHTEEN (18) INCHES INTO SUBSOIL BELOW THE PLANTING HOLE. STAKES AND WIRE ATTACHMENTS SHALL BE REMOVED AFTER THREE MONTHS FOR SPRING PLANTED MATERIAL AND BY THE FOLLOWING MAY FOR FALL PLANTED STOCK BY THE CONTRACTOR. STAKING AND GUYING SHOULD BE DONE IMMEDIATELY AFTER LAWN SEEDING OR SODDING OPERATIONS.
- G. SEEDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE TREATED AS FOLLOWS:1. TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED TO A MINIMUM DEPTH OF6" WHEN COMPACTED (TO BE PERFORMED BY OTHERS).
 - 2. SEED MIXTURE AND APPLICATION RATE USE <u>PREMIUM</u> SEED MIX AS SUPPLIED BY ARTHUR CLESEN, INC. APPLY AT A RATE OF 5 LBS./1000 S.F.
 - 3. APPLY FERTILIZERS AND CONDITIONERS AT THE RATE SPECIFIED PER SOIL TEST FINDINGS. IN LIEU OF SOIL TEST RESULTS, APPLY TWO (2) TONS OF GROUND AGRICULTURAL LIMESTONE AND 1000 LBS. 10-10-10 OR EQUIVALENT ANALYSIS FERTILIZER PER ACRE. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE OF AN ORGANIC ORIGIN.
 - 4. SOIL PREPARATION AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 6" BEFORE FERTILIZING AND SEEDING. FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
 - 5. WATERING SEEDED AREAS SHALL BE DONE TO ENSURE PROPER GERMINATION. ONCE SEEDS HAVE GERMINATED, WATERING MAY BE DECREASED BUT THE SEEDLINGS MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED APPROXIMATELY FOUR (4) WEEKS AFTER GERMINATION OR UNTIL

GRASS HAS BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN 'AS NEEDED' BASIS

- 6. TURF IS BEING ESTABLISHED ON A VARIETY OF SLOPE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE/SHE DEEMS NECESSARY TO ESTABLISH THE TURF AS PART OF HIS/HER WORK. SEEDED AREAS WILL BE ACCEPTED WHEN ALL AREAS SHOW A UNIFORM STAND OF THE SPECIFIED GRASS IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS/HER BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE/SHE INTENDS TO USE.
- H. EROSION CONTROL BLANKET
 - 1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION IN ALL AREAS SHOWN ON THE PLAN.
 - 2. INSTALL S-75 EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
 - 3. BLANKET SHOULD BE PREMARKED WITH STAPLE PATTERN
 - 4. STAPLES SHOULD BE 8" WIRE STAPLES, APPLIED AT TWO (2) PER SQUARE YARD MINIMUM.
 - 5. SUITABLE EROSION CONTROL PRACTICES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCES AND THE PLANS.
- SODDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE COMPLETED AS FOLLOWS:
 RAKE SOIL SURFACE TO RECEIVE SOD TO COMPLETELY REMOVE ANY SOIL CRUST NO MORE THAN ONE DAY PRIOR TO LAYING SOD.
 - MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
 - 3. SOD SHALL BE LAID WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF THE GROUND IS FROZEN.
 - 4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK FROM BOARDS TO AVOID DAMAGE TO SUBGRADE OR SOD. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT SOD.
 - 5. PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW ADJOINING EDGING OR PAVING.
 - 6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
 - 7. AFTER SOD AND SOIL HAVE DRIED, ROLL SEEDED AREAS TO ENSURE A GOOD BOND BETWEEN THE SOD AND SOIL, AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES.
 - 8. SODDED SLOPES 3:1 OR GREATER SHALL BE STAKED TO PREVENT EROSION AND WASHOUT.
 - 9. WARRANTY SODDING FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE 90 DAY MAINTENANCE PERIOD. IF SOD FAILS OR LACKS VIGOR AND FULL GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR WILL REPEAT SITE PREPARATION OPERATIONS AND RE-SOD AFFECTED AREAS AT THE CONTRACTOR'S EXPENSE.
 - 10. NOTE: SOD SHALL BE A PREMIUM KENTUCKY BLUEGRASS BLEND, AND IS REQUIRED IN ALL AREAS INDICATED ON THE PLANS AS WELL AS AREAS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION. SOD CAN BE PLACED AS LONG AS WATER IS AVAILABLE AND THE GROUND SURFACE CAN BE PROPERLY PREPARED. SOD SHALL NOT BE LAID ON FROZEN OR SNOW-COVERED GROUND. SOD SHALL BE STRONGLY ROOTED, NOT LESS THAN TWO (2) YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHOULD BE MACHINE CUT TO PAD THICKNESS OF 3/4" (PLUS OR MINUS 1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10% OF PAD WILL NOT BE ACCEPTED.
- J. TIMING OF PLANT MATERIAL AND SEEDING OPERATIONS:
 - 1. SEEDING OF SPECIFIED AREAS SHALL OCCUR WHEN THE SOIL TEMPERATURE IS ABOVE 55° F. NO SEED SHALL BE SOWN DURING PERIODS OF HIGH WINDS, OR WHEN THE GROUND IS NOT IN PROPER CONDITION FOR SEEDING (SEE SECTION 3-02 (G)). SEEDING OPERATIONS FOR THE SPECIFIED MIXES SHALL OCCUR IN THE SPRING TIME FRAME OF APRIL 15 THROUGH JUNE 30 AND IN THE SUMMER TIME FRAME OF AUGUST 15 THROUGH DECEMBER 1. THE MIXES CONTAINING BLUEGRASS AND FESCUE SEED MUST HAVE SIX WEEKS TO HARDEN OFF FOR WINTER SURVIVAL.
 - 2. SOD SHALL BE INSTALLED WHEN THE GROUND IS NOT FROZEN OR SNOW COVERED AND TEMPERATURES ARE LESS THAN 80° F. IT SHALL NOT BE PLACED DURING A PERIOD OF EXTENDED DROUGHT.
 - 3. HERBACEOUS ORNAMENTAL PLANTS SHALL BE PLANTED BETWEEN MAY 1 AND JUNE 15 OR BETWEEN AUGUST 15 AND DECEMBER 1.
 - 4. SPRING PLANTING OF WOODY ORNAMENTAL PLANTS SHALL BE PERFORMED FROM THE TIME THE SOIL CAN BE EASILY WORKED UNTIL JUNE 1, EXCEPT THAT EVERGREEN PLANTING SHALL END ON MAY 15. OAK, HAWTHORN AND RED MAPLE SPECIES WILL ONLY BE PLANTED DURING THIS SPRING PLANTING PERIOD. FALL PLANTING WILL BEGIN AUGUST 15 AND WILL CONTINUE UNTIL THE GROUND CANNOT BE WORKED SATISFACTORILY, EXCEPT THAT EVERGREEN PLANTING SHALL BE PERFORMED BETWEEN AUGUST 15 AND DECEMBER 1.

3-04 MAINTENANCE:

A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AREAS AND PLANT MATERIAL PLUS ANNUAL FLOWER MAINTENANCE. THE CONTRACTOR WILL RESET SETTLED PLANTS TO PROPER GRADE AND POSITION. DEAD MATERIAL WILL BE REMOVED. STAKES AND GUY WIRES WILL BE TIGHTENED AND REPAIRED AS REQUIRED.

3-04 ACCEPTANCE:

A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTEED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE.

3-06 SITE CLEAN-UP:

A. THE CONTRACTOR SHALL PROTECT THE PROPERTY OF THE OWNER AND THE WORK OF OTHER CONTRACTORS. THE CONTRACTOR SHALL ALSO BE DIRECTLY RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ACTIVITIES AND FOR THE DAILY REMOVAL OF ALL TRASH AND DEBRIS FROM HIS/HER WORK AREA TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.

Trim Sold 15/25 REVISED PER NEW BMP AT ENTRANCE O5/12/25 MN

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PROJ. MGR.: MN
PROJ. ASSOC.: MN

DRAWN BY: MN

DATE: 03/14/25

SCALE: NTS

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