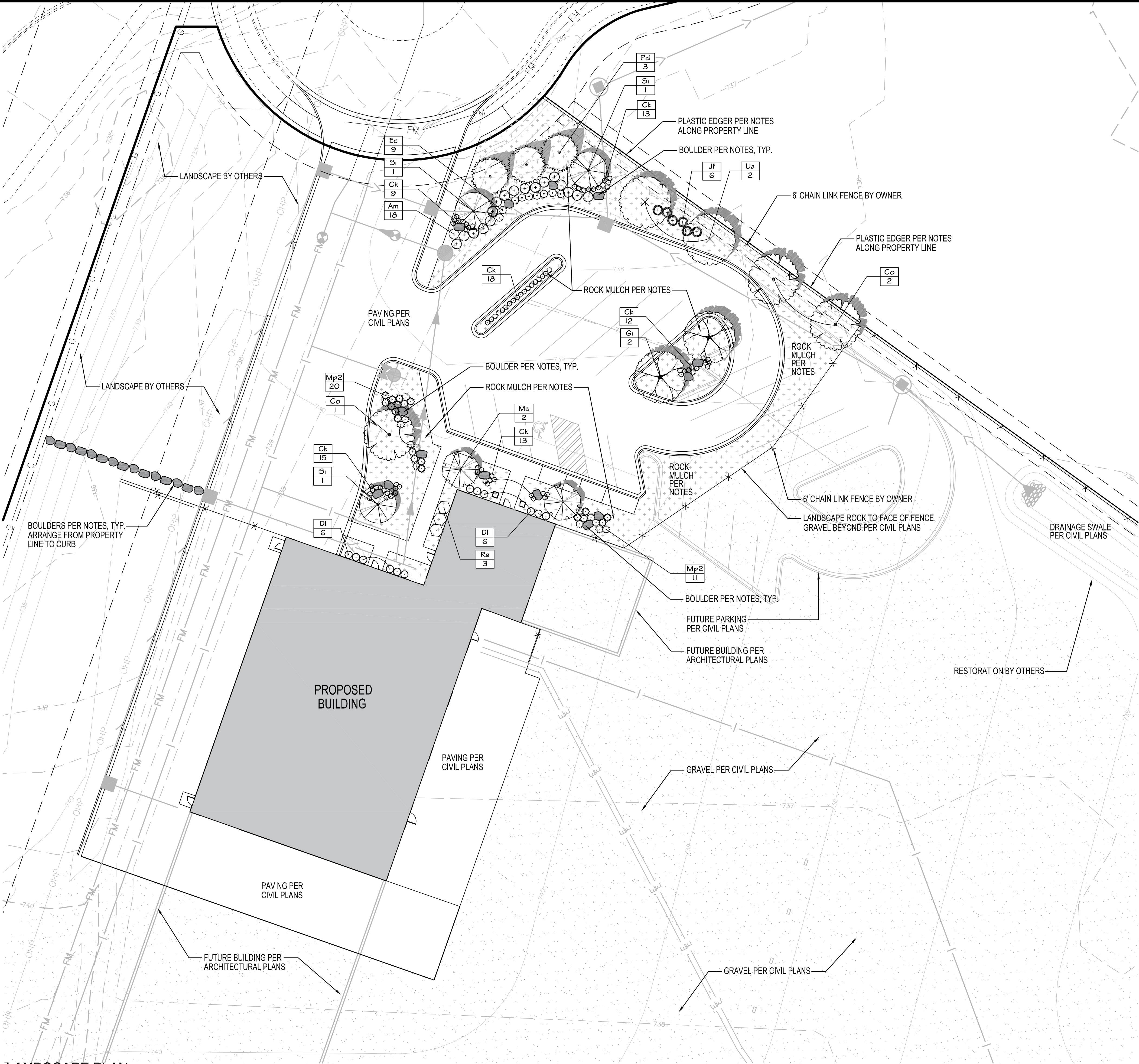




LANDSCAPE PLAN:

Tree Credit Chart for Existing Trees to Remain*:
*Refer to Civil Plans for Tree Inventory and Tree Preservation Plan

POINT NO.	DBH (INCHES)	SPECIES	PRESERVED TREE CLASSIFICATION	TREE CREDIT
5358	15,10,9	SPRUCE	COMMON SIGNIFICANT	1
5359	17,13	SPRUCE	COMMON SIGNIFICANT	1
5586	4	OAK	EXCEPTIONAL SIGNIFICANT	4
5587	6	OAK	EXCEPTIONAL SIGNIFICANT	4
5588	21	OAK	HIGH PRIORITY TREE	8
5644	21	OAK	HIGH PRIORITY TREE	8
5645	4	OAK	EXCEPTIONAL SIGNIFICANT	4
5649	4	OAK	EXCEPTIONAL SIGNIFICANT	4
5650	11	OAK	EXCEPTIONAL SIGNIFICANT	4
5651	10	OAK	EXCEPTIONAL SIGNIFICANT	4
5661	9	OAK	EXCEPTIONAL SIGNIFICANT	4
5662	16	PINE	COMMON SIGNIFICANT	1
5667	5	OAK	EXCEPTIONAL SIGNIFICANT	4
5673	5,5,4	OAK	EXCEPTIONAL SIGNIFICANT	4
5696	26	OAK	HIGH PRIORITY TREE	8
5697	4	OAK	EXCEPTIONAL SIGNIFICANT	4
5698	19	PINE	COMMON SIGNIFICANT	1
5699	16	PINE	COMMON SIGNIFICANT	1
5700	17	PINE	COMMON SIGNIFICANT	1
5701	6	OAK	EXCEPTIONAL SIGNIFICANT	4
5702	5	OAK	EXCEPTIONAL SIGNIFICANT	4
5703	14	PINE	COMMON SIGNIFICANT	1
5716	14	PINE	COMMON SIGNIFICANT	1
5717	18	PINE	COMMON SIGNIFICANT	1
5718	5	OAK	EXCEPTIONAL SIGNIFICANT	4
5719	15	PINE	COMMON SIGNIFICANT	1
5720	16	PINE	COMMON SIGNIFICANT	1
5972	12	OAK	EXCEPTIONAL SIGNIFICANT	4
5978	15,9	PINE	COMMON SIGNIFICANT	1
5992	10,9	PINE	COMMON SIGNIFICANT	1
6127	11	PINE	COMMON SIGNIFICANT	1
TOTAL CREDITS:				94

Existing Tree Credits:
If healthy landscaping of acceptable species and location exist on a site prior to development and is preserved, the city's Zoning Administrator may allow credit for such landscaping to meet up to 30% of the trees required. Credit may be given based on the following:

Preserved Trees:	Tree Credit:
Excluded Trees	No Credit
Common Significant Tree > 6 inches	1 Tree
Exceptional Significant Tree > 4 inches	4 Trees
High Priority Tree > 15 inches	8 Trees

Common Tree: Any of the following trees: poplar; red maple; elm; cedar; mulberry; balsam fir; birch; pine; spruce; tamarack; black locust; or other fast growing deciduous trees not listed as an exceptional tree. Trees that are not included in overall tree inventory and are not required to be replaced are ash, box elder, buckthorn, willow, fruit trees, silver maple, and cottonwood.

Exceptional Tree: Any of the following trees: oak; hickory; basswood; sugar maple; black maple; cherry; catalpa; walnut; hackberry; hornbeam; coffee tree; butternut; buckeye; or horse chestnut

High Priority Tree: An exceptional tree 15 inches DBH or greater, or any tree the city has a strong desire to preserve and is declared healthy by the city's staff

Significant Tree: A living specimen of a woody plant species that is either an exceptional tree whose diameter is 4 inches or greater DBH; a common tree whose diameter is 6 inches or greater DBH, or a multi-stem tree with 2 or more stems measuring 4 inches or greater in diameter measured above the root collar.

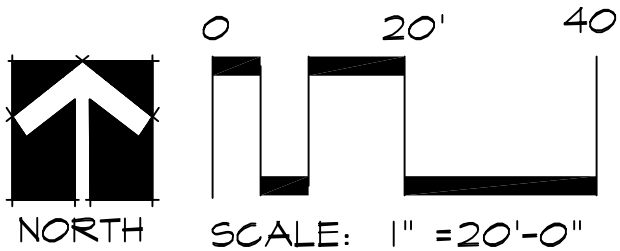
Landscape Requirements:
Building Footprint Area: 10,538 SF
First 10,000 SF requires 2 trees / 1,000 SF = 20 Trees
10,001 to 50,000 SF requires and additional 1.5 trees / 1,000 SF = 1 Tree
Maximum Number of Ornamental Trees is 25% of required landscaping trees (5 Trees)
Tree Diversity: If less than 30 trees are required, one species shall make up no more than one-fourth of the total

Total Trees Required: 21 Trees (5 of which can be ornamental)
Existing Tree Credits: 94
Existing Tree Credits Allowed to be Applied (30% of total tree requirement): 6

Total Proposed Trees Required: 15
Total Proposed Trees Shown: 15

See Sheet 6.2 for Planting Details, Notes, and Requirements

- General Notes:
- Actual locations of trees may vary, depending on final location of driveways and utilities.
 - See Civil Engineer's plans for grading layout and requirements
 - Contractor to coordinate all work in the city right-of-way with City of Shakopee Public Works Department.
 - Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
 - Test tree pits to ensure sub-soils permeability of no less than .25" per hour of water infiltration.
- Landscape Legend:
- Rock Mulch Per Notes



CALYX DESIGN GROUP
Landscape Architecture - Planning
475 Cleveland Avenue N. | Suite 101A | St. Paul, MN 55104
telephone: 651.788.9018
internet: www.calyxdesigngroup.com



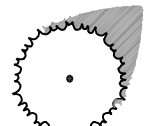
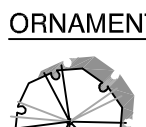
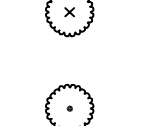
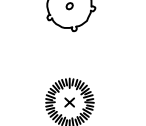
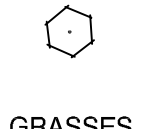
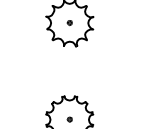
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer for the State of Minnesota.
Print Name: Benjamin D. Hartberg, R.L.A.
Signature: [Signature]
Date: 01/20/2022 License No.: 46904

S.M.H. NORTH MAINTENANCE FACILITY
SHAKOPEE, MINNESOTA
LANDSCAPE PLAN
FOR
HENTGES DEVELOPMENT, LLC
650 QUAKER AVENUE, JORDAN, MN 55352

DRAWN BY
HL
DATE
01/20/22
REVISIONS

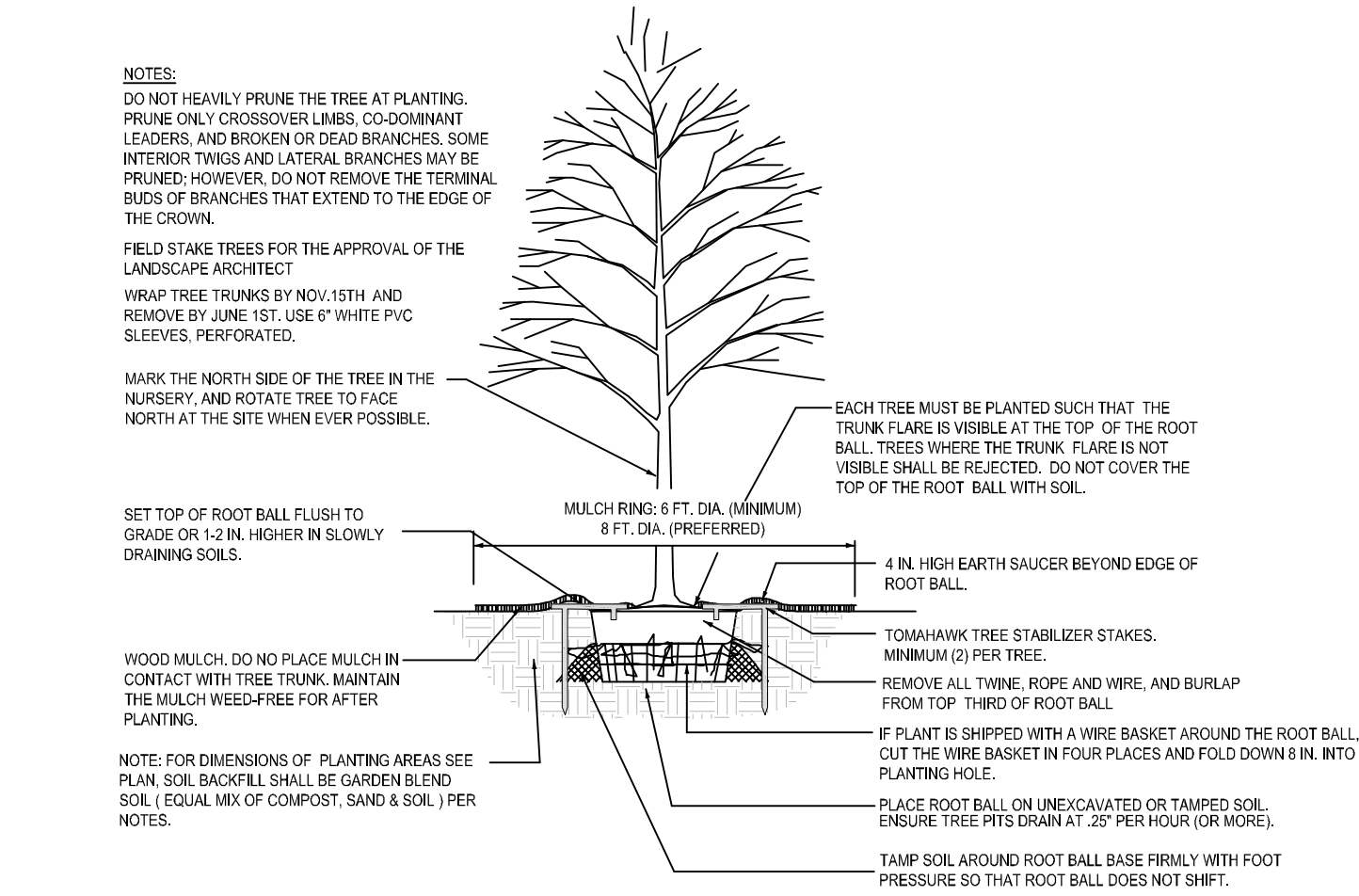
CAD FILE
PROJECT NO.
23648-20
L6.1

PLANT SCHEDULE

EVERGREEN TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Pd	Picea glauca `Densata`	Black Hills Spruce	6' Hgt.	B&B	3	
OVERSTORY TREE	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Co	Celtis occidentalis	Common Hackberry	2.5" Cal.	B&B	3	
	Gi	Gleditsia triacanthos Inermis `Skycole` TM	Skyline Thornless Honey Locust	2.5" Cal.	B&B	2	
	Ua	Ulmus x `Accolade`	Accolade Elm	2.5" Cal.	B&B	2	
ORNAMENTAL TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Ms	Malus x `Spring Snow`	Spring Snow Crab Apple	1.5" Cal.	B&B	2	
	Si	Syringa reticulata `Ivory Silk`	Ivory Silk Japanese Tree Lilac	1.5" Cal.	B&B	3	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Am	Aronia melanocarpa `Morton` TM	Iroquis Beauty Black Chokeberry	5 gal.	Pot	18	
	DI	Diervilla lonicera	Dwarf Bush Honeysuckle	5 gal.	Pot	12	
	Ec	Euonymus fortunei `Canadale Gold`	Canadale Gold Euonymus	5 gal.	Pot	9	
	Jf	Juniperus chinensis `Sea Green`	Sea Green Juniper	5 gal.	Pot	6	
	Ra	Ribes alpinum	Alpine Currant	5 gal.	Pot	3	
GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Ck	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	1 gal.	Pot	80	
	Mp2	Miscanthus sinensis `Purpurescens`	Flame Grass	1 gal.	Pot	31	

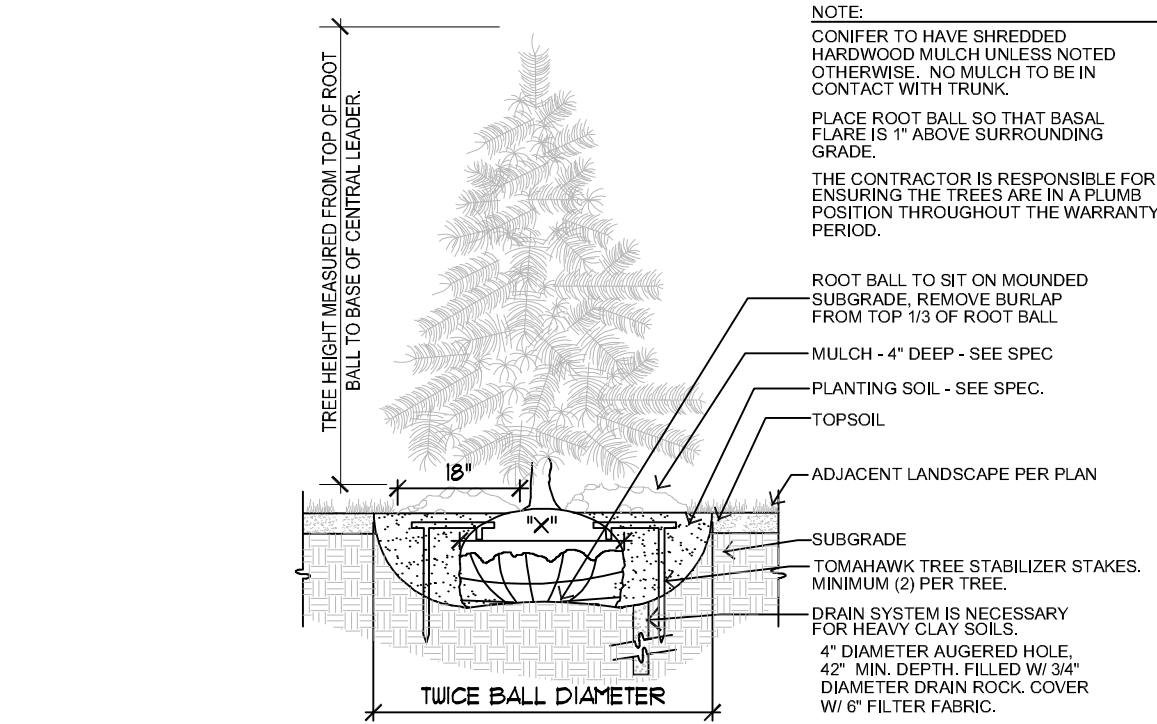
Landscape Notes:

- Tree saucer mulch to be four inches (4") depth natural single-shred hardwood mulch for trees outside of a plant bed. Install per tree planting detail, including PVC trunk guards.
- Refer to civil plan sheets for grading, drainage, site dimensions, survey, tree removal, proposed utilities & erosion control.
- All plant material shall comply with the latest edition of the American Standard for Nursery Stock, American Association of Nurserymen. Unless noted otherwise, deciduous shrubs shall have at least 5 canes at the specified shrub height. Plant material shall be delivered as specified. Deciduous tree diameter is measured at breast-height (40" above final grade), in accordance with National Forestry and ANSI standards. Coniferous tree height is measured following planting installation, and is measured from final grade to the tip of the central leader. Bidders submitting pricing accept the above measurement conditions.
- Plan takes precedence over plant schedule if discrepancies in quantities exist.
- All proposed plants shall be located and staked as shown.
- Adjustment in location of proposed plant material may be needed in field. Should an adjustment be required, the client will provide field approval. Significant changes may require city review and approval.
- The project landscape contractor shall be held responsible for watering and properly handling all plant materials brought on the site both before and after installation. Schedule plant deliveries to coincide with expected installation time within 36 hours.
- All plant materials shall be fertilized upon installation as specified.
- The landscape contractor shall provide the owner with a watering schedule appropriate to the project site conditions and to plant material growth requirements.
- If the landscape contractor is concerned or perceives any deficiencies in the plant selections, soil conditions, drainage or any other site condition that might negatively affect plant establishment, survival or guarantee, they must bring these deficiencies to the attention of the landscape architect & client prior to bid submission. Plant bed drainage concerns during plant installation shall be brought to the attention of the Owner and General Contractor immediately.
- Contractor shall establish to his/ her satisfaction that soil and compaction conditions are adequate to allow for proper drainage at and around the building site.
- Contractor is responsible for ongoing maintenance of all newly installed material until time of owner acceptance. Any acts of vandalism or damage which may occur prior to owner acceptance shall be the responsibility of the contractor. Contractor shall provide the owner with a maintenance program including, but not limited to, pruning, fertilization and disease/pest control.
- The contractor shall guarantee newly planted material through one calendar year from the date of written owner acceptance. Plants that exhibit more than 10% die-back damage shall be replaced at no additional cost to the owner. The contractor shall also provide adequate tree wrap and deer/rodent protection measures for the plantings during the warranty period.
- This layout plan constitutes our understanding of the landscape requirements listed in the ordinance. Changes and modifications may be requested by the city based on applicant information, public input, council decisions, etc.
- The landscape contractor shall be responsible for obtaining any permits and coordinating inspections as required throughout the work process.
- Plant size & species substitutions must be approved in writing prior to acceptance in the field.
- The landscape contractor shall furnish an Irrigation Layout Plan for head-to-head coverage of all tree, turf (if shown per plan) and shrub planting areas. Use commercial-grade irrigation equipment and provide product cut-sheets and (4) copies of the proposed layout plan to the Owner for review and approval. Coordinate irrigation connection point, controller, back-flow, rain sensor, sleeving, and valve locations with the general contractor.
- Edger: All landscape edging noted per plan to be professional commercial-grade plastic landscape edging with 1" bullnose. Cobra, ValleyView, or Equal. Install per detail.
- Landscape Contractor is responsible for coordination with the General Contractor, to protect the new improvements on and off-site during landscape work activities. Report any damage to the General Contractor immediately.
- Unless otherwise noted/indicated, plant beds shall receive a 4" depth of 1-1/2" diameter Dresser Trap Rock mulch for finished landscape applications over fabric weed mat, per detail. Submit mulch sample for Owner approval. Do not install weed mat under perennials, with the exception of ornamental grasses.
- All planting, seeding, and sodded areas shall be prepared prior to installation activities with a harley power box rake or equal to provide a firm planting bed free of stones, sticks, construction debris, etc.
- Turf installation activity (if shown per plan) shall conform to all rules and regulations as established in the MnDOT Seeding Manual, 2014 edition, for turf bed preparation, installation, maintenance, and warranty.
- The Landscape Contractor shall furnish samples of all landscape materials for approval prior to installation.
- The Landscape Contractor shall clear and grub the underbrush from within the work limits to remove dead branches, leaves, trash, weeds and foreign materials. Remove trees where noted on the plan, including the stump to 30" below grade.
- The landscape contractor shall contact Gopher State One Call no less than 48 hours before digging for field utility locations.
- The landscape contractor shall be responsible for the removal of erosion control measures once vegetation has been established to the satisfaction of the municipal staff. This includes silt curtain fencing and sediment logs placed in the landscape.
- The landscape contractor shall be responsible for visiting the site to become familiar with the conditions prior to bidding and installation. Coordinate with the general contractors on matters such as fine grading, landscaped area conditions, staging areas, irrigation connection to building, etc.
- See Site and Civil plans for grading, utilities, and additional information regarding the project.
- All sub-cut areas of the site that are designated on the site plan as open space for landscape shall have no less than 6" of imported, pulverized topsoil. Slope away from building.
- Landscape contractor must prove the open sub-grade of all planting areas after their excavation is capable of infiltrating a minimum requirement of 1/4-inch of water per hour prior to installation of plant materials, topsoil, irrigation, weed mat, and mulch. Planting areas not capable of meeting this requirement shall have 4" diameter X 48" depth holes augured every 36" on-center and filled with MnDOT Free-Draining Coarse Filter Aggregate. Re-test sub-grade percolation for compliance to infiltration minimum requirement.
- Fencing (if noted) per Architect's Plans and Specifications.
- Landscape contractor shall coordinate tree removal activities and ensure all trees designated for removal are gone before start of landscape installation. Grind stump to 30" below grade and back-fill with topsoil.
- Boulders: Owner to provide all boulders. Contractor to install Owner-provided Tiger Stripe Boulders (available through Hedberg Supply 763-545-4400) or equal where noted per plan. Boulders to be approximately 36-48"L x 24-36"W x 24-36"H. Contractor to bury 4" of the boulder base beneath finished grade.



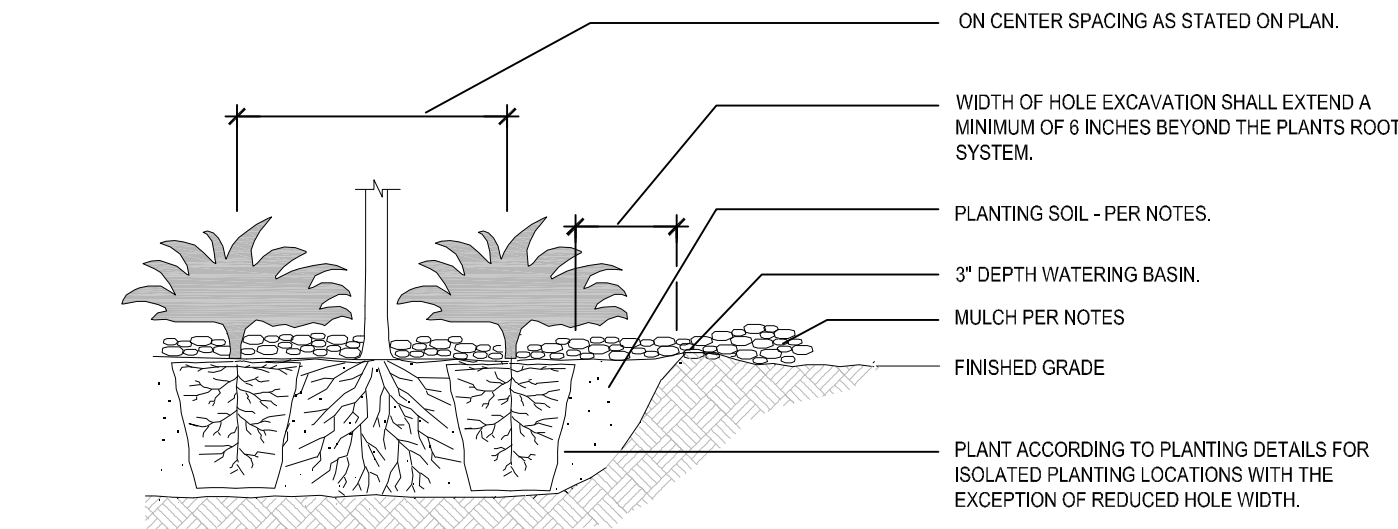
1 DECIDUOUS TREE PLANTING - SECTION

6.2 NOT TO SCALE



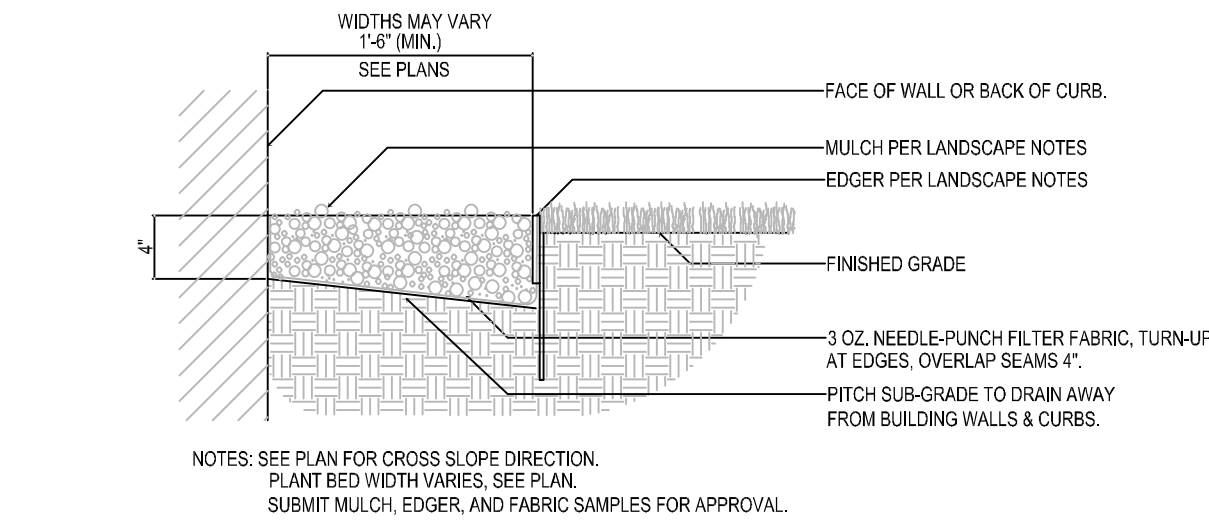
2 CONIFEROUS TREE PLANTING - SECTION

6.2 NOT TO SCALE



3 TYP. SHRUB PLANTING - SECTION

6.2 NOT TO SCALE



4 TYPICAL MULCH AND EDGER DETAIL

6.2 NOT TO SCALE