

Tree Inventory Log:

ID	Common Name	Condition	Significant Tree?	DBH	Remove?
108	Black Hills Spruce	Good	Y	16	N
BE	Box Elder	Fair	N		Y
BE	Box Elder	Fair	N		Y
SE	Siberian Elm	Fair	N		N

Summary: No significant trees to be removed, no mitigation required



CALYX

DESIGN GROUP

Landscape Architecture | Planning

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Client:

ELEMENT

DESIGN-BUILD

1110 RAYMOND AVENUE, UNIT 3
ST. PAUL, MN 55108

Project Title:

UPPER 33RD STREET

TOWNHOUSE

DEVELOPMENT

LAKE ELMO, MN

I hereby certify that this plan, specifications or report was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of MINNESOTA.

PRELIMINARY

Benjamin Hartberg, PLA

Date: Lic. No.:

Rev.	Date	Description

Project #: 12226050

Drawn By: HL

Checked By: BH

Issue Date: 11.22.2022

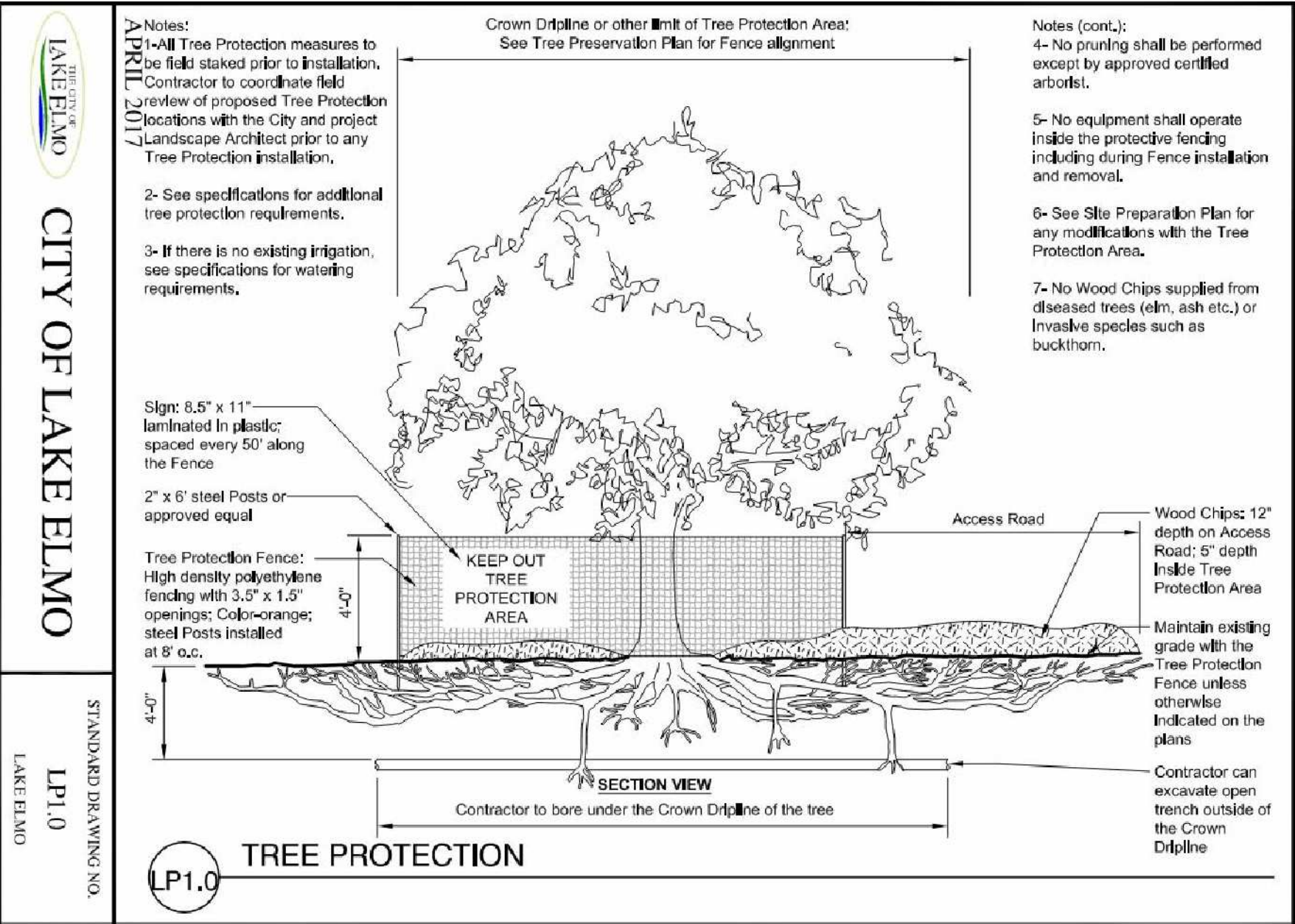
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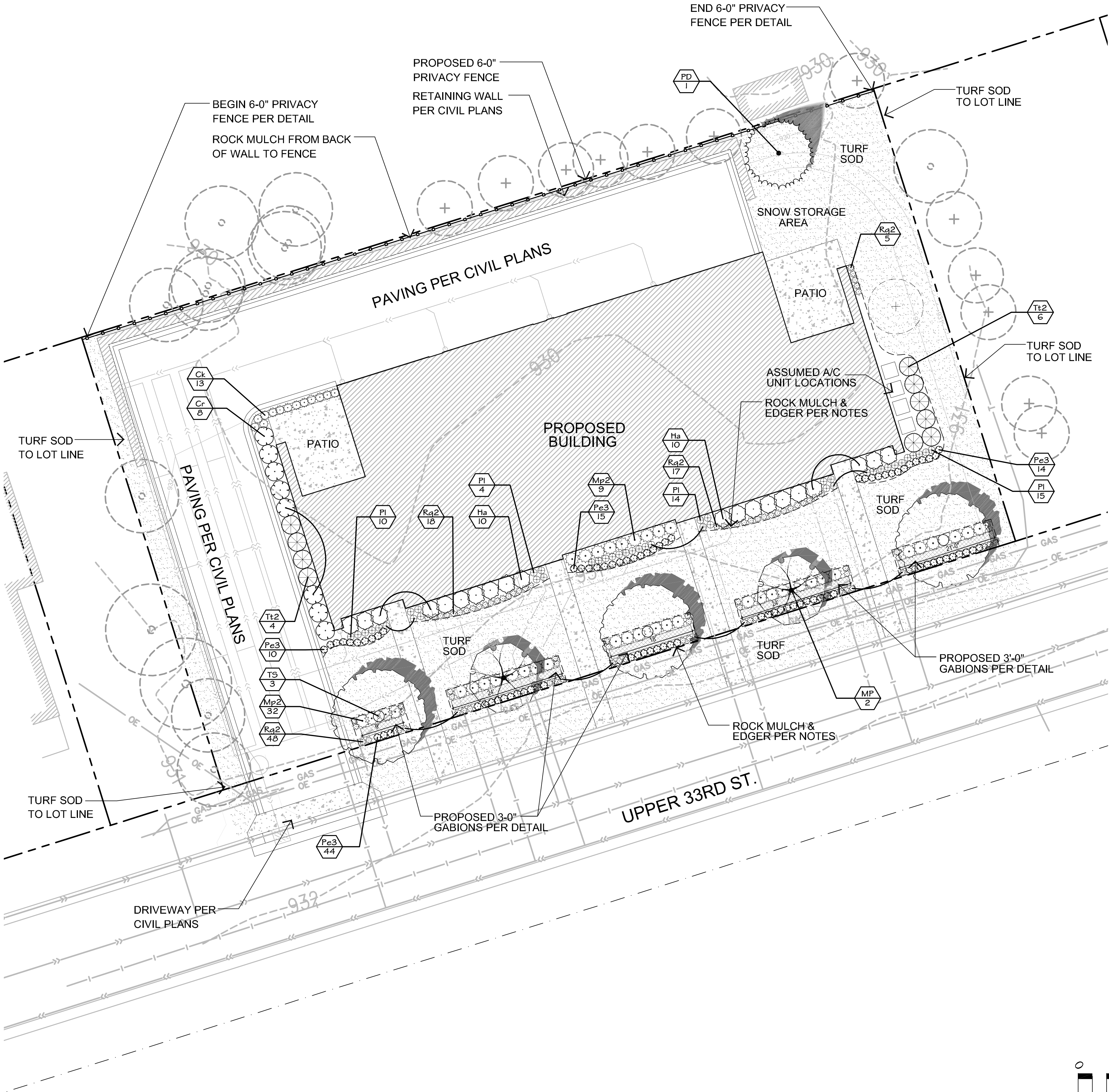
TREE

PRESERVATION

PLAN

Sheet:





Legend:

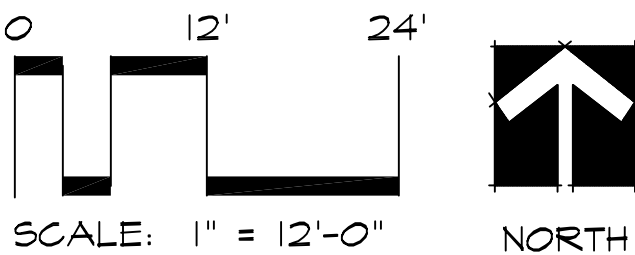
- Proposed Turf Sod
- Edger per Landscape Notes

PLANT SCHEDULE

EVERGREEN TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	PD	Picea glauca 'Densata'	Black Hills Spruce	6' Hgt.	B&B	1
OVERSTORY TREE	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	TS	Tilia americana 'Sentry'	Sentry Linden	2.5" Cal.	B&B	3
ORNAMENTAL TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	MP	Malus x 'Prairifire'	Prairifire Crab Apple	2" Cal.	B&B	2
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	Cr	Cornus alba 'Regnzam'	Red Gnome Dogwood	5 gal.	Pot	8
	Ha	Hydrangea arborescens 'Annabelle'	Annabelle Hydrangea	5 gal.	Pot	20
	Tt2	Thuja occidentalis 'Techny Globe'	Techny Globe Arborvitae	5 gal.	Pot	10
ANNUALS/PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	PI	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	1 gal.	Pot	43
	Pe3	Phlox subulata 'Emerald Blue'	Emerald Blue Creeping Phlox	1 gal.	Pot	83
	Rg2	Rudbeckia fulgida 'Goldstrum'	Black Eyed Susan	1 gal.	Pot	88
GRASSES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
	Ck	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gal.	Pot	13
	Mp2	Miscanthus sinensis 'Purpurescens'	Flame Grass	1 gal.	Pot	41

Municipal Landscape Requirements:

- (5) Trees per acre of land
 - Acres: 0.4
 - Trees Required: 2
 - Significant Trees to Remain: 1
 - Trees Proposed: 1
- (1) Additional Tree per 50' of street frontage
 - Street Frontage: 175'
 - Trees Required: 4
 - Trees Proposed: 5



LANDSCAPE LAYOUT PLAN:



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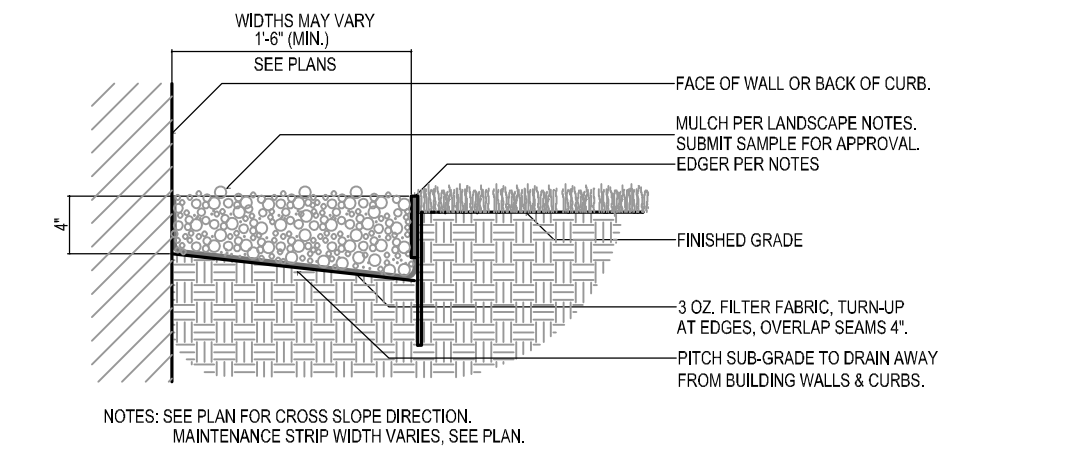
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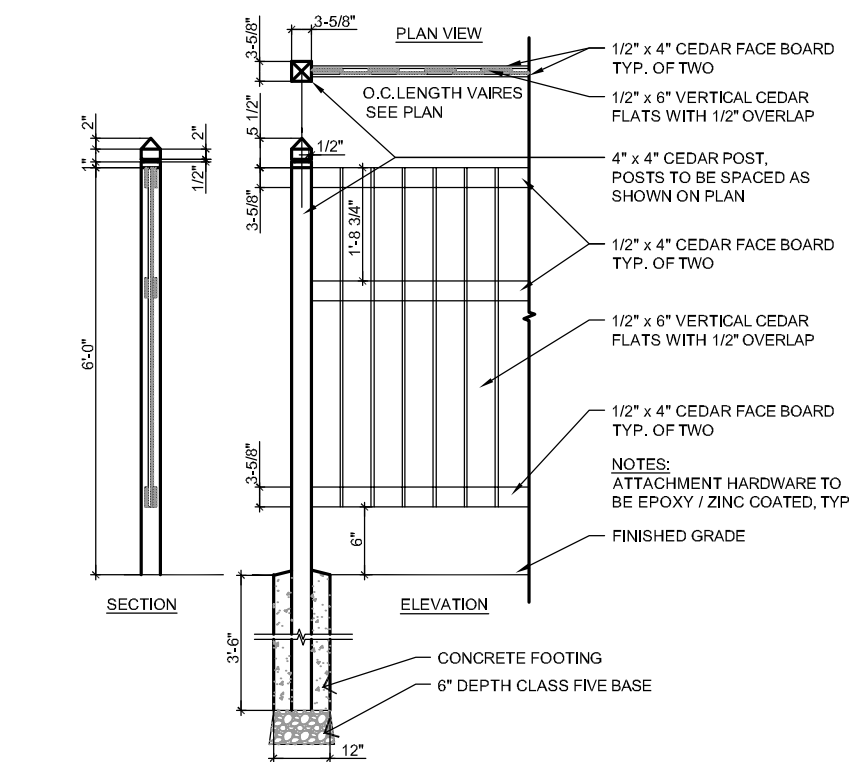
LANDSCAPE PLAN

Sheet:

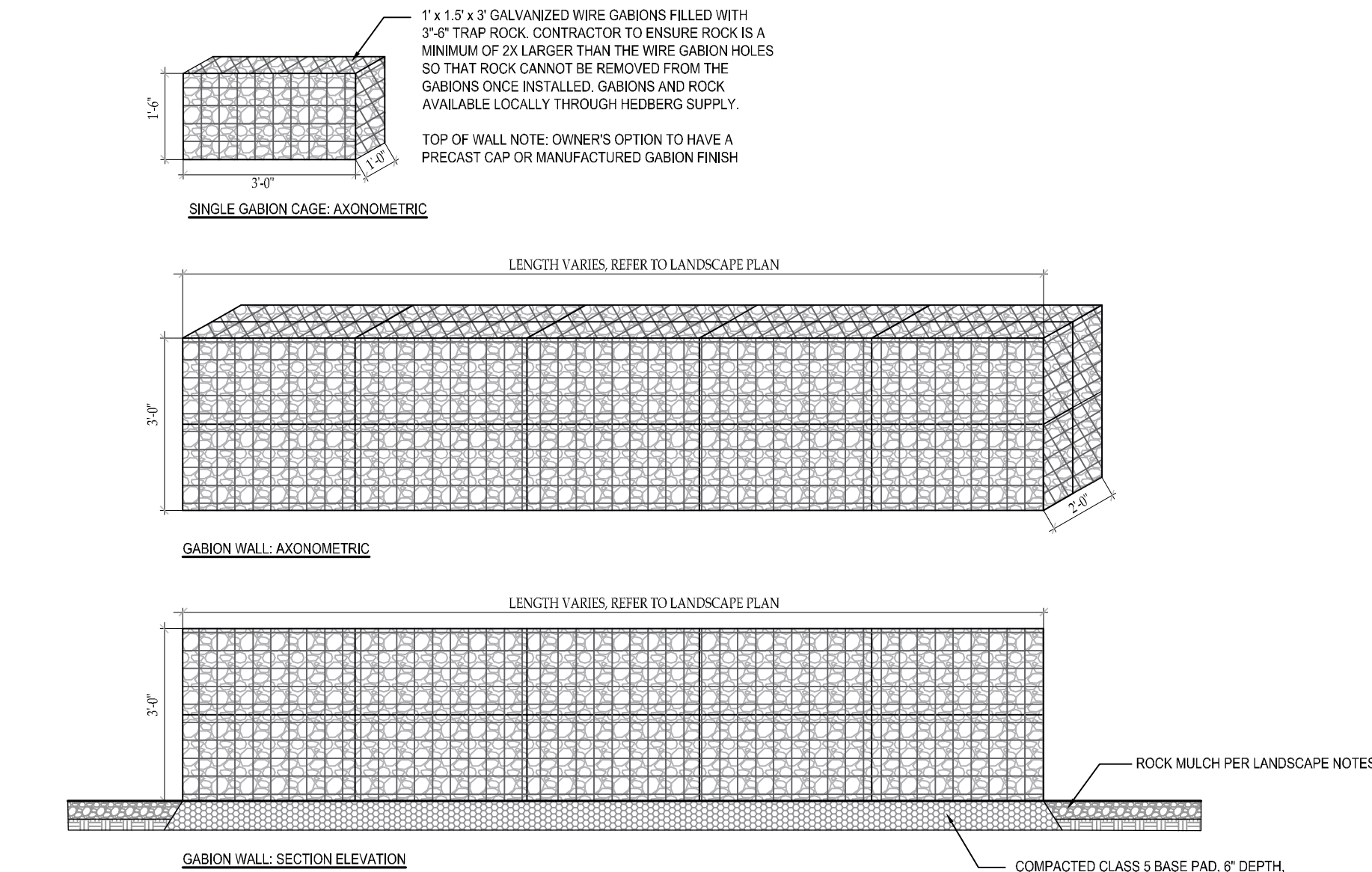
L200



1 TYP. MULCH DETAIL
L200 NOT TO SCALE



2 6'-0" WOOD PRIVACY FENCE
L200 NOT TO SCALE



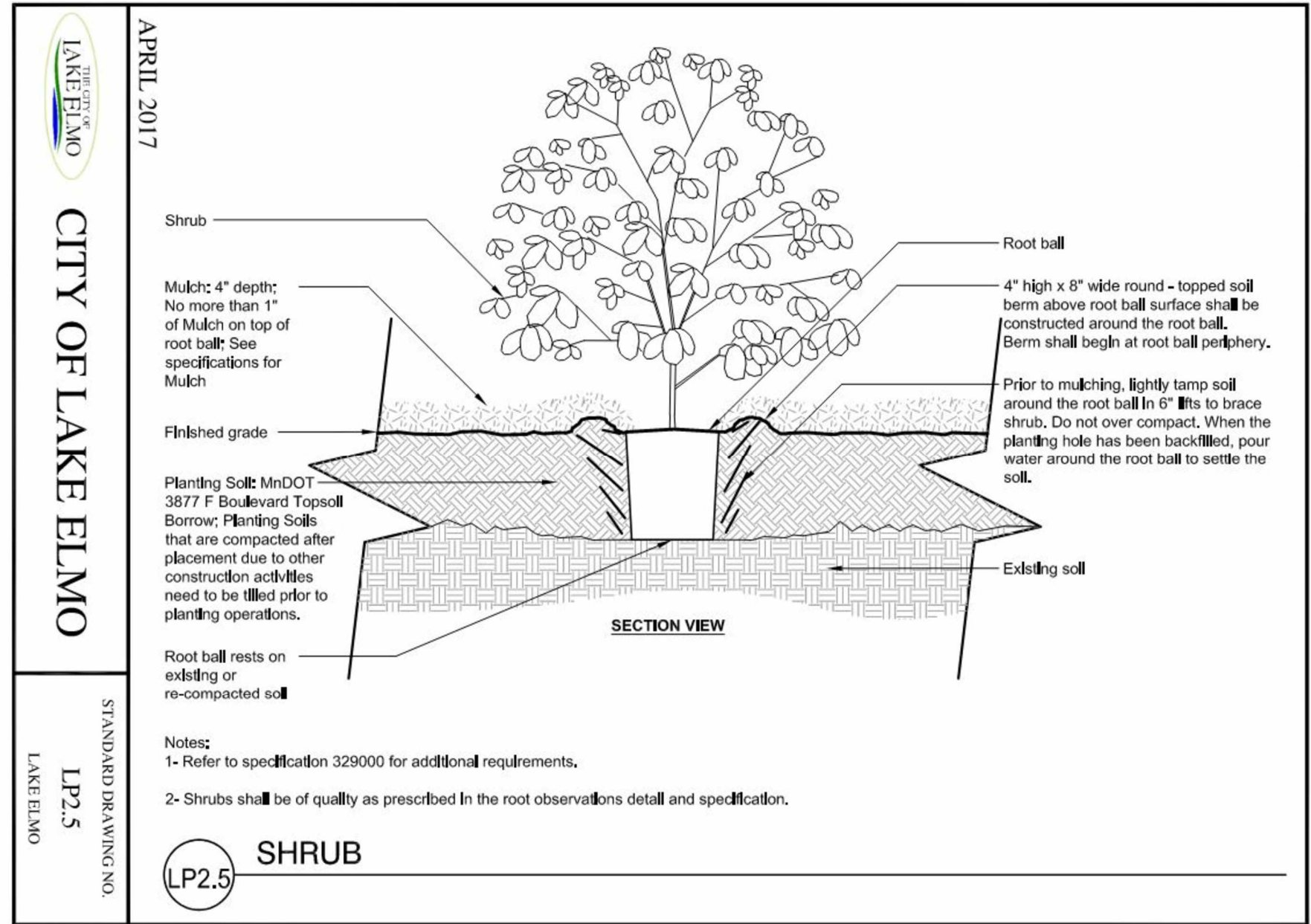
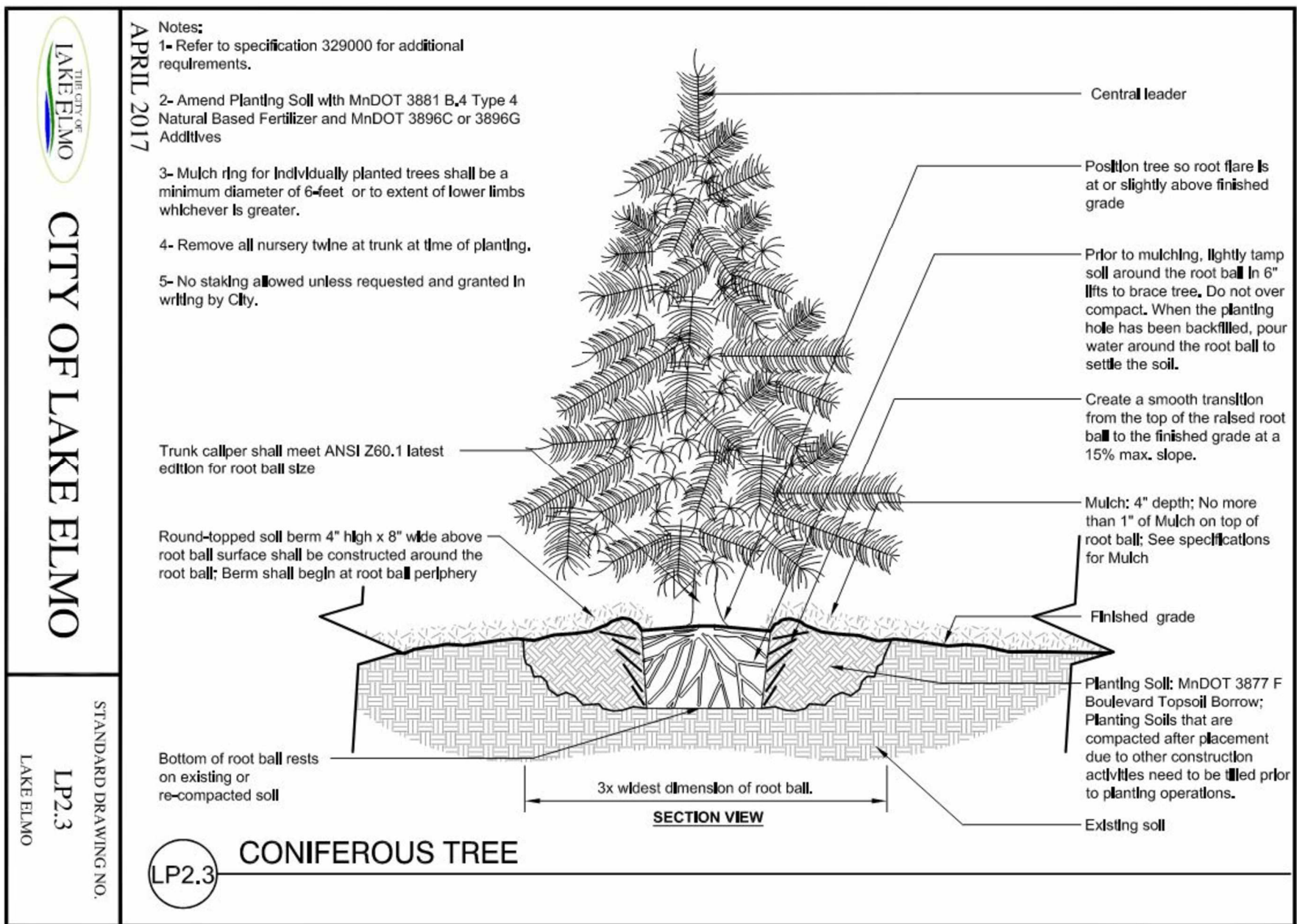
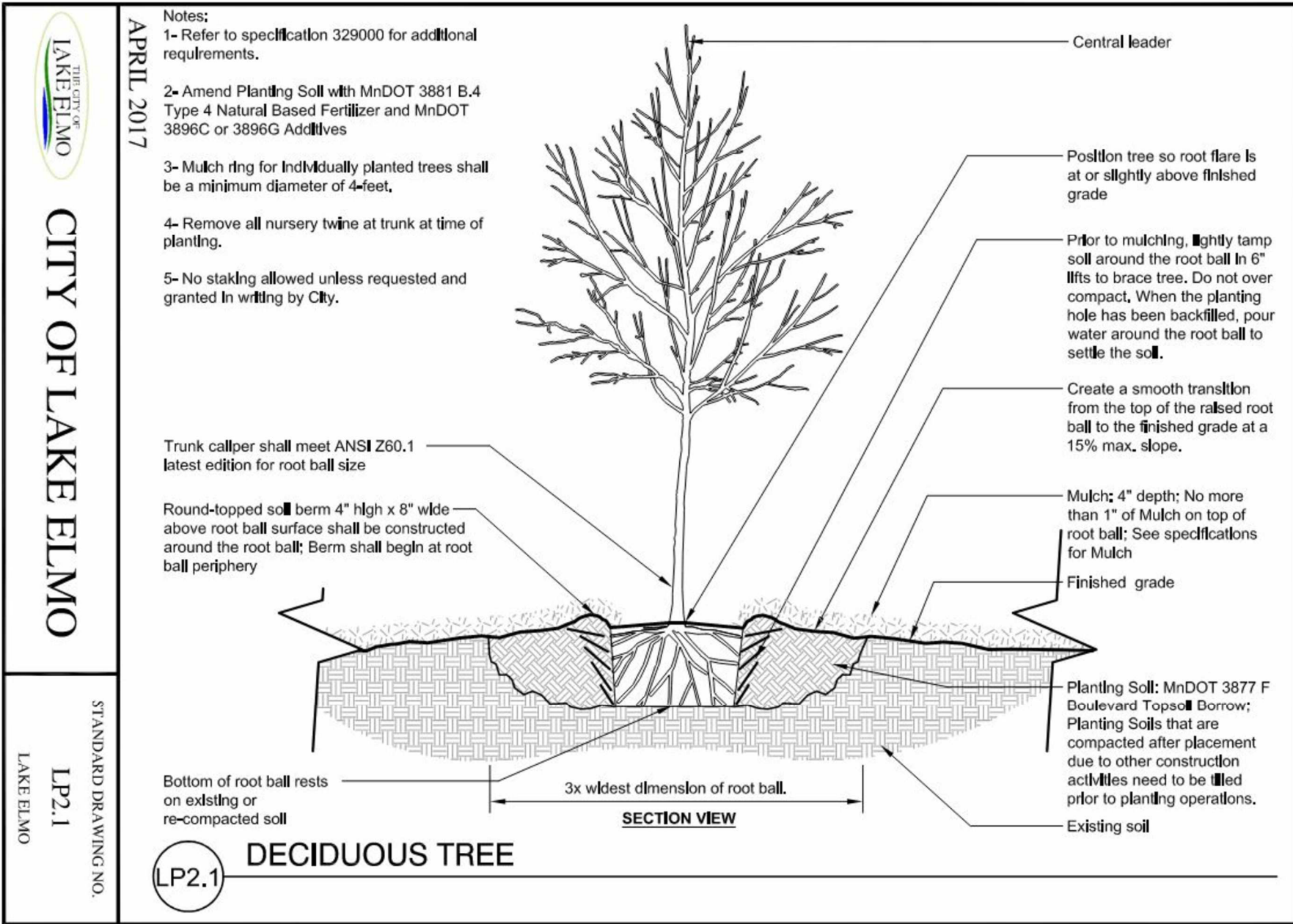
3 36" TALL ROCK-FILLED GABIONS
L200 NOT TO SCALE



General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate any work in the city right-of-way with City of Lake Elmo Public Works Department.
3. Refer to Sheet L100 for Tree Preservation Plan, L200 for Landscape Plan, and L300 for Landscape Details

LANDSCAPE DETAILS, NOTES, & SCHEDULES



Landscape Notes and Requirements:

1. Tree saucer for individual trees outside of a plant bed to be four inches (4") depth natural Western Red Cedar mulch for trees outside of a plant bed. Install per tree planting detail. Do not place mulch against tree trunk. Remove wire and burlap from top third of root ball before final soil back-fill and mulch.
2. Refer to civil plan sheets for grading, drainage, site dimensions, survey, tree removal, proposed utilities & erosion control.
3. 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. All deciduous trees are measured at 48" from finished grade to determine tree diameter (DBH). All coniferous trees are measured from finished grade to the top of the central leader. If no central leader is present on coniferous trees, that plant is rejected and must be replaced immediately.
4. Plan takes precedence over plant schedule if discrepancies in quantities exist.
5. All proposed plants shall be located and staked as shown.
6. 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.
7. 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.
8. All plant materials shall be fertilized upon installation as specified.
9. The landscape contractor shall provide the owner with a watering schedule appropriate to the project site conditions and to plant material growth requirements.
10. 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.
11. 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.
12. Contractor is responsible for ongoing maintenance of all newly installed plant material for the duration of the warranty period. Landscape contractor is responsible for coordinating lawn mowing hand-off with the Owner after the first mowing. 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 weed control, plant pruning, fertilization and disease/pest control beyond the first year of maintenance. See Note #22.
13. Warranty: The contractor shall guarantee newly planted material through one calendar year from the date of written owner acceptance. Plants that exhibit more than 20% 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.
14. 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.
15. The landscape contractor shall be responsible for obtaining any permits and coordinating inspections as required throughout the work process.
16. Plant size & species substitutions must be approved in writing prior to acceptance in the field.
17. Irrigation: The landscape contractor shall furnish an Irrigation Layout Plan for head-to-head coverage of all tree and turf planting areas. Use commercial grade irrigation equipment and provide cut-sheets and provide (3) copies of the proposed layout plan to the Civil Engineer for review and approval prior to installation. Coordinate irrigation connection point, controller, back-flow and valve locations with the architect and general contractor. Irrigation contractor to verify if a deduct meter is required and include in bid. Include (1) fall shut-down and (1) spring start-up in bid.
18. All edger shall be professional grade black steel edger, 1/8" thickness. Anchor every 18" on-center (minimum). Submit sample.
19. 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.
20. Rock mulch areas shall be 3/4" inch dia. local clean dark trap rock over weed mat. Install per detail. Submit mulch sample for approval.
21. All planting 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.
22. Turf Sodding shall conform to all rules and regulations as established in the MnDOT Seeding Manual, 2014 edition, for turf bed preparation, installation, maintenance, acceptability, and warranty. Turf Sod installation to include one year of maintenance in the bid price, which includes fertilization and weed control 3 times - (2) applications in the first growing season and (1) application the following spring. Also, include mechanical plug aeration, which is to occur (1) time the spring following turf sod installation, including snow storage areas. An acceptable stand of turf is lush, full, and weed-free. See specifications for additional information and contractor mowing requirement.
23. The Landscape Contractor shall furnish samples of all landscape materials for approval prior to installation.
24. The Landscape Contractor shall clear and grub the underbrush from within the work limits to remove dead branches, leaves, trash, weeds and foreign materials.
25. The landscape contractor shall contact Gopher State One Call no less than 48 hours before digging for field utility locations.
26. 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.
27. 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.
28. See Site and Civil plans for additional information regarding the project, including infiltration area soils and sub-surface drainage requirements and performance.
29. Topsoil Requirements: All graded areas of the site that are designated on the plan set for turf sod shall have no less than 6" of imported top soil, areas designated for shrubs, trees, and perennials shall have no less than 12" of imported top soil, meeting MnDOT classifications for planting soil for trees, shrubs, and turf. Slope away from building.
30. 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.
31. Landscape contractor to provide nursery pull list (bill of lading) including plant species and sizes shipped to the site. Additionally, the landscape contractor shall provide nursery stock traceability, proving none of the materials provided contain or are genetic strains of the neonicotinoid family including acetamiprid, clothianidin, imidacloprid, nitenpyram, nithiazine, thiacloprid and thiamethoxam.
32. Landscape contractor shall apply granular Preen pre-emergent herbicide in all wood mulch areas immediately following installation and again the following spring.

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Sheet Title:

LANDSCAPE DETAILS

Sheet:

L300