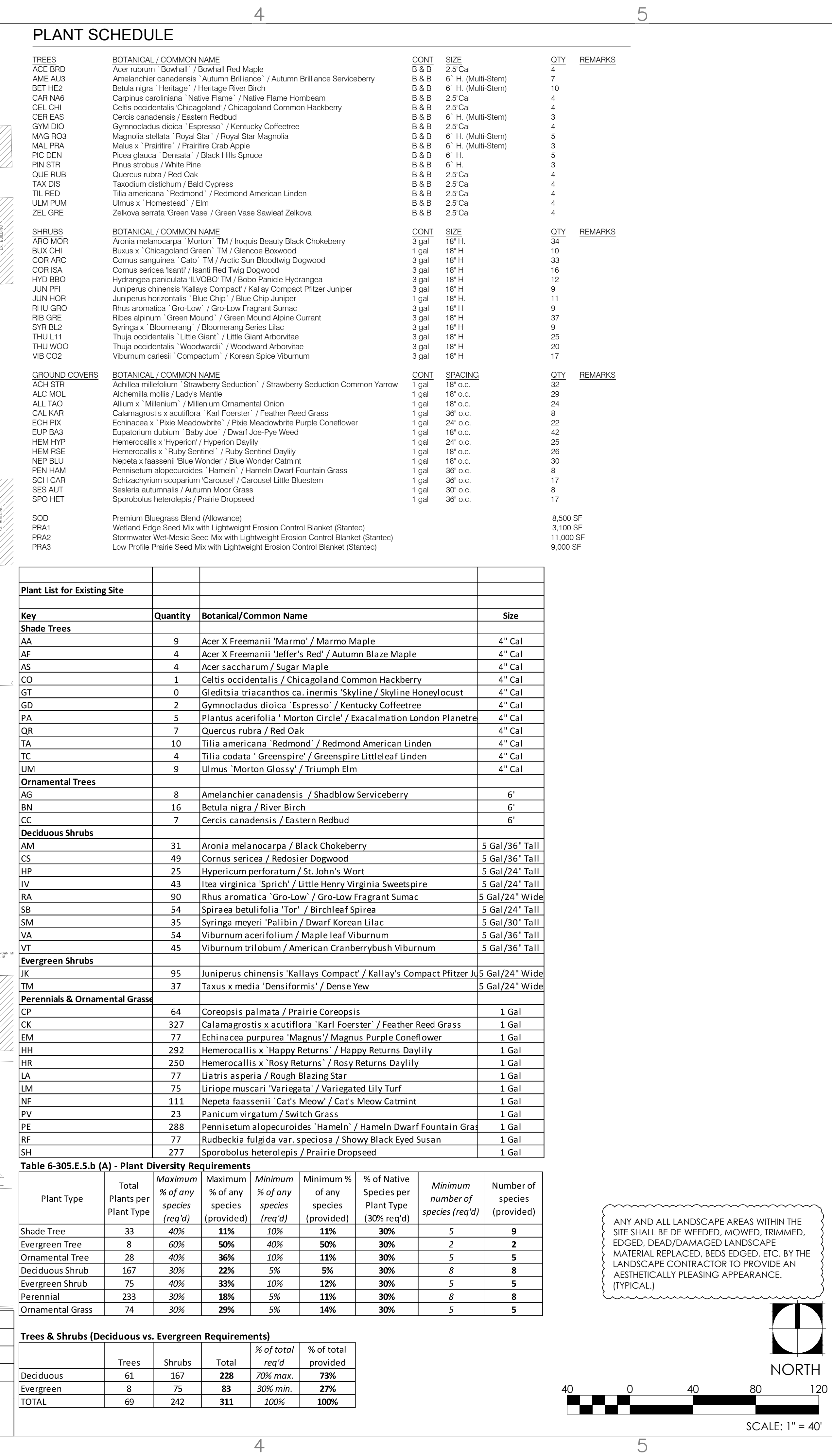
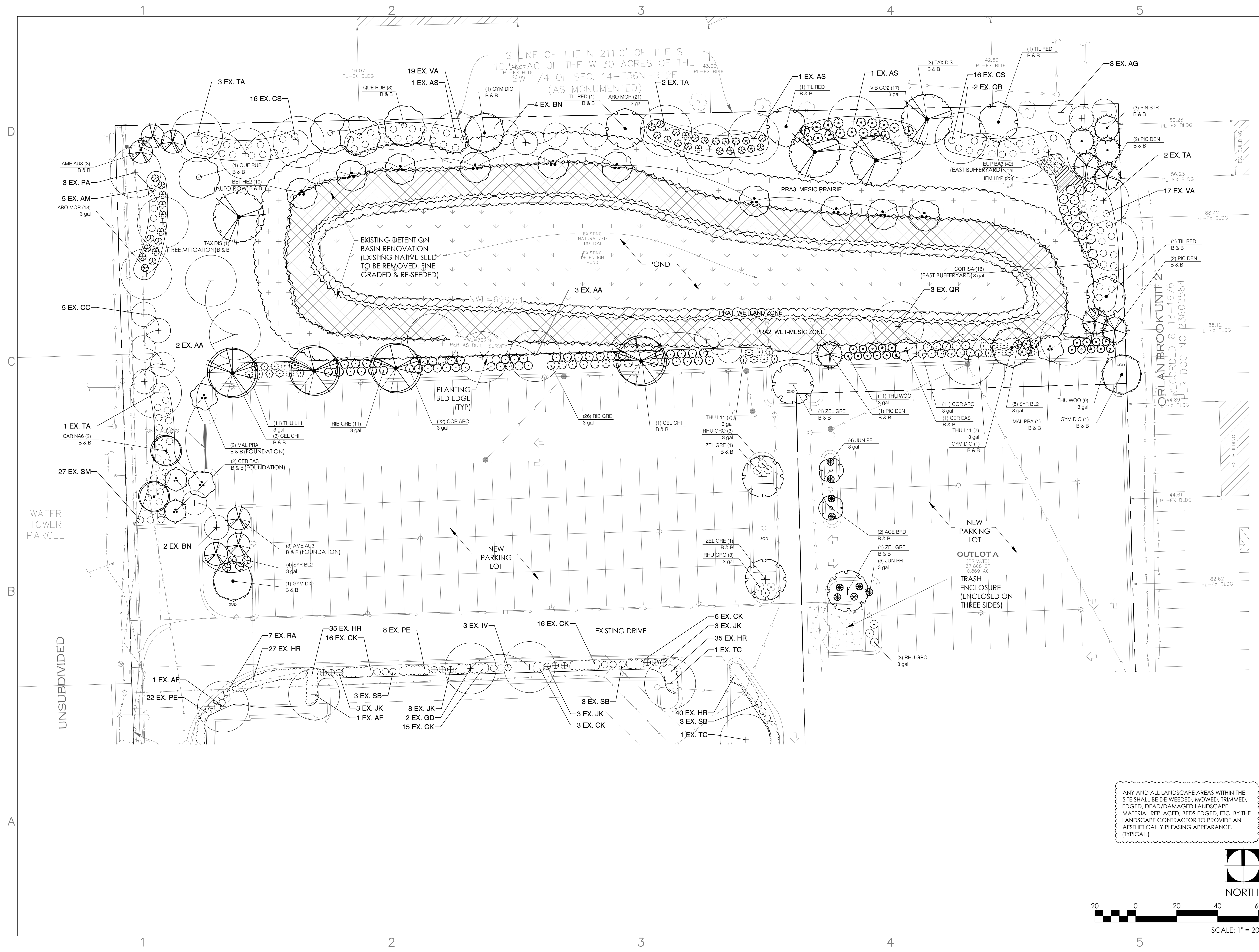




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Trees & Shrubs (Deciduous vs. Evergreen Requirements)					
	Trees	Shrubs	Total	% of total req'd	% of total provided
Deciduous	61	167	228	70% max.	73%
Evergreen	8	75	83	30% min.	27%
TOTAL	69	242	311	100%	100%

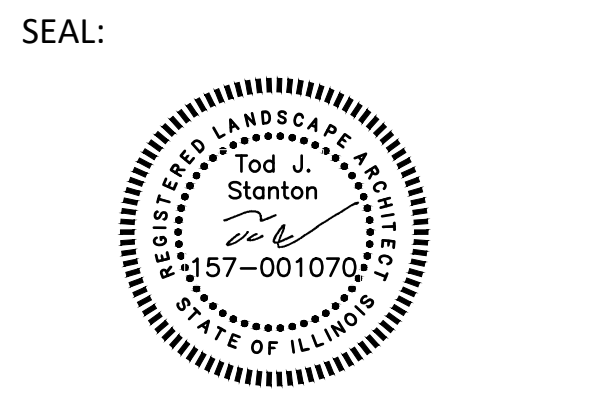


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REV.	COMMENT	DATE
1	VILLAGE RE-SUBMITTAL	4/10/2023
2	VILLAGE SUBMITTAL	5/26/2023



DATE: 1/10/2023
JOB NO.: 22-8647
DRAWN BY: TS
CHECKED BY: TS

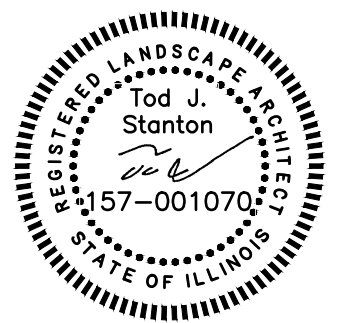
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LANDSCAPE PLAN-
NORTH

SHEET NO.:
L1.01

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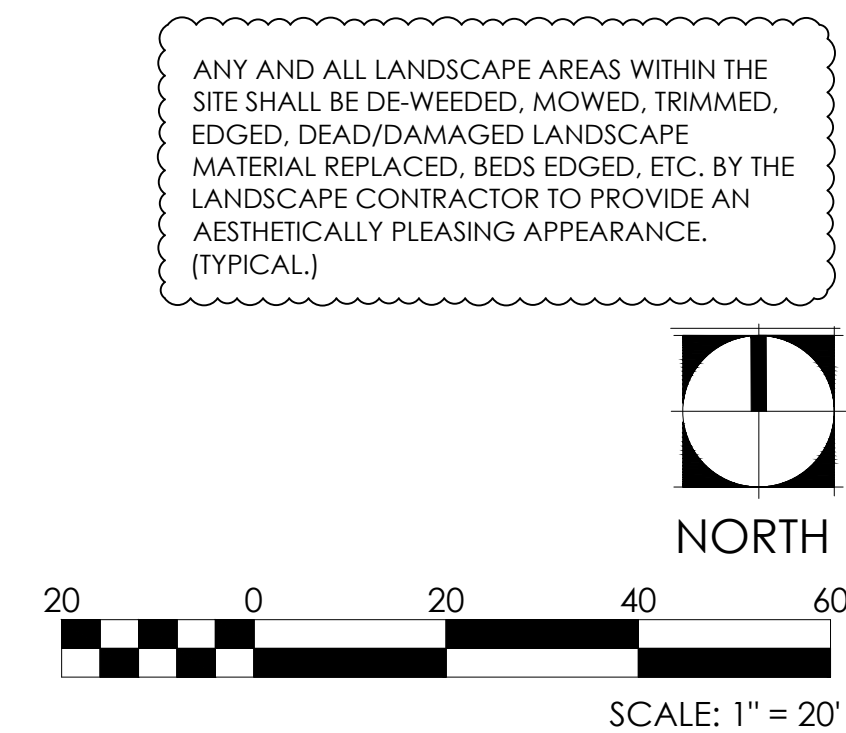
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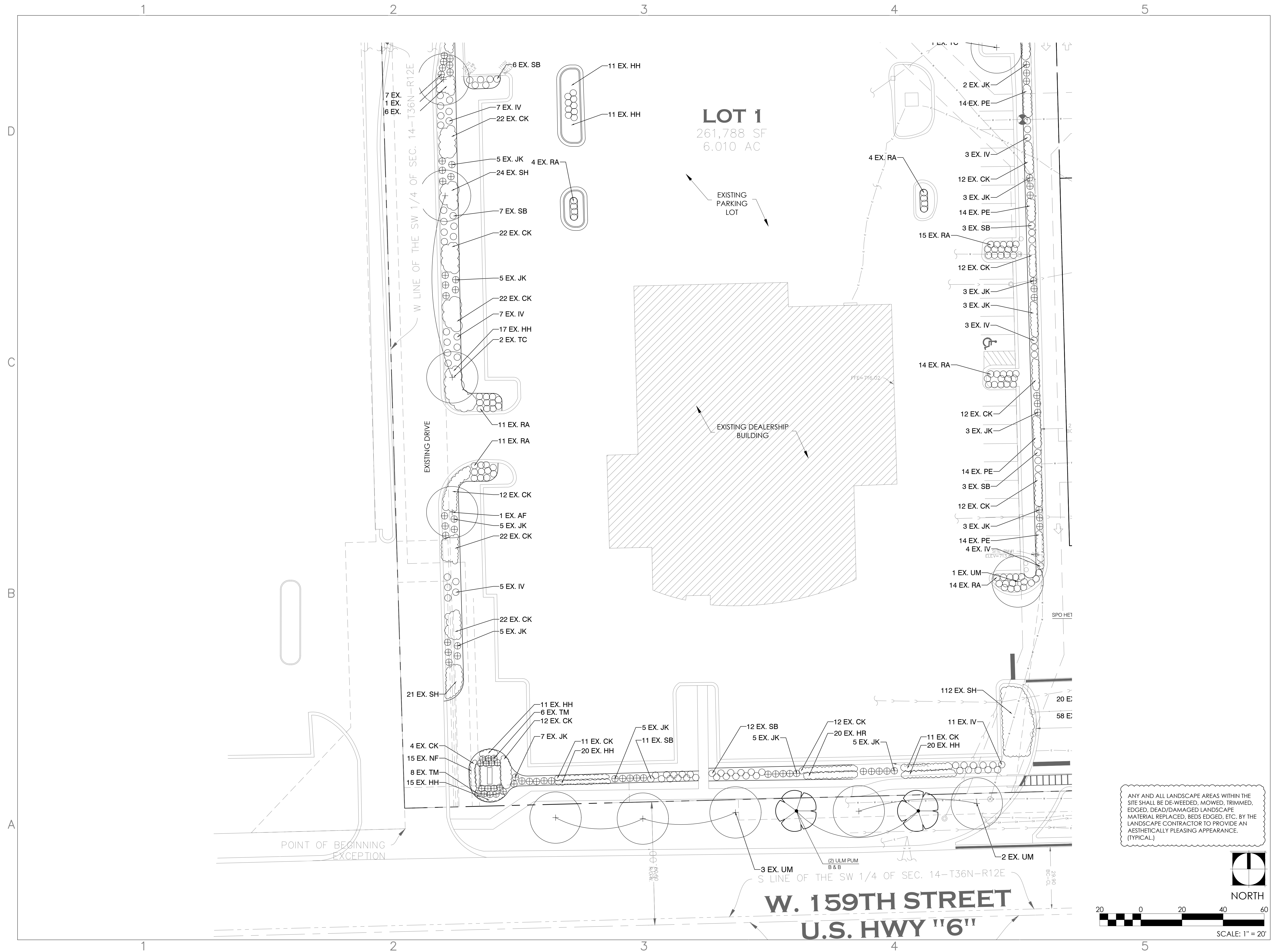
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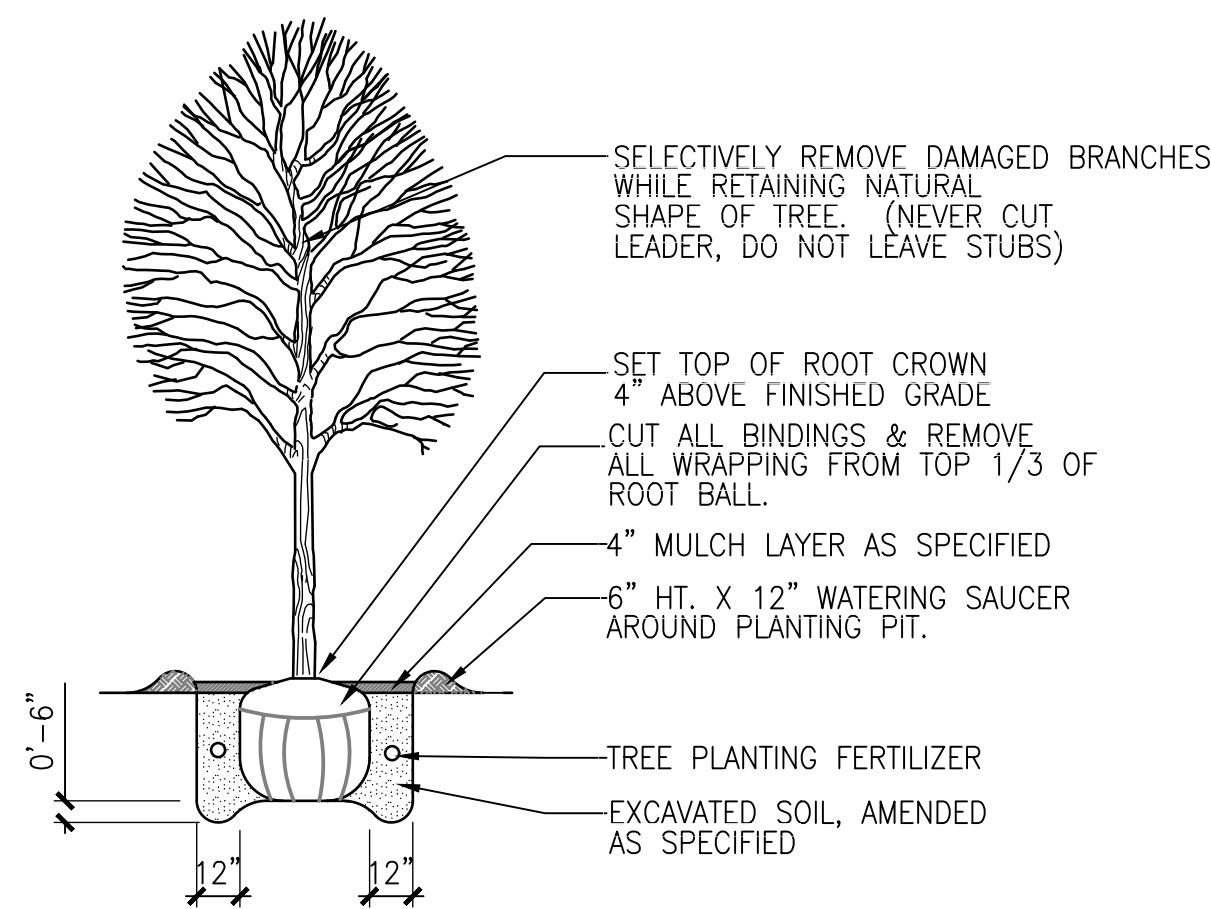
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LANDSCAPE PLAN-
SOUTHEAST

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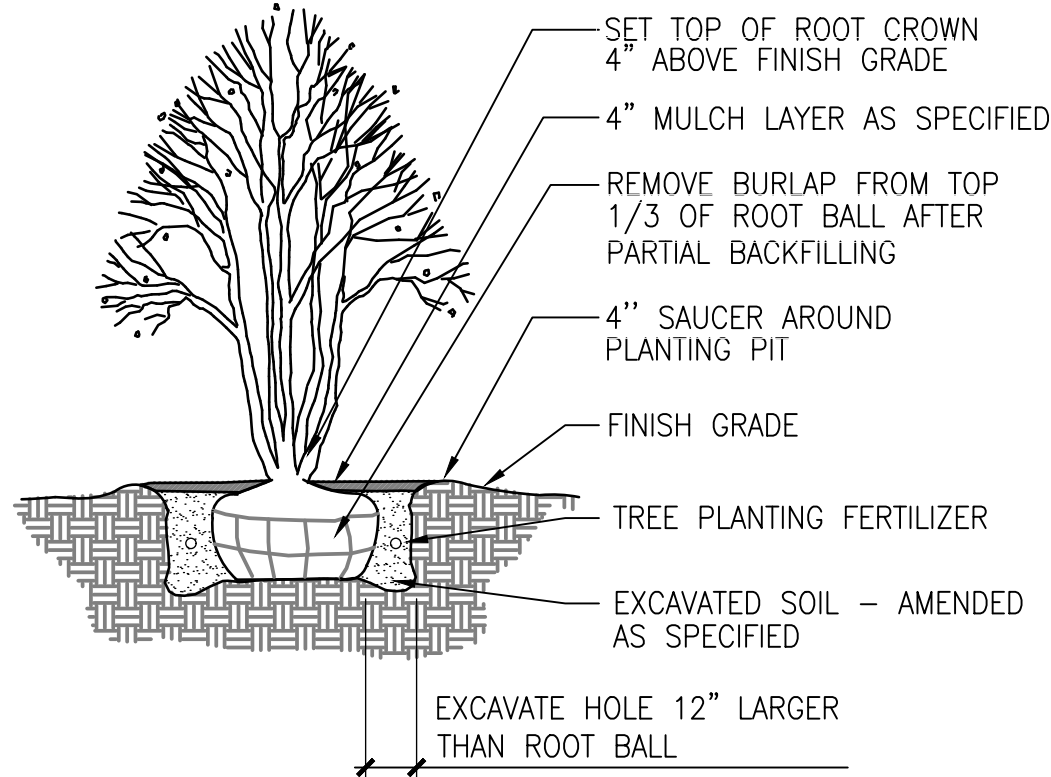




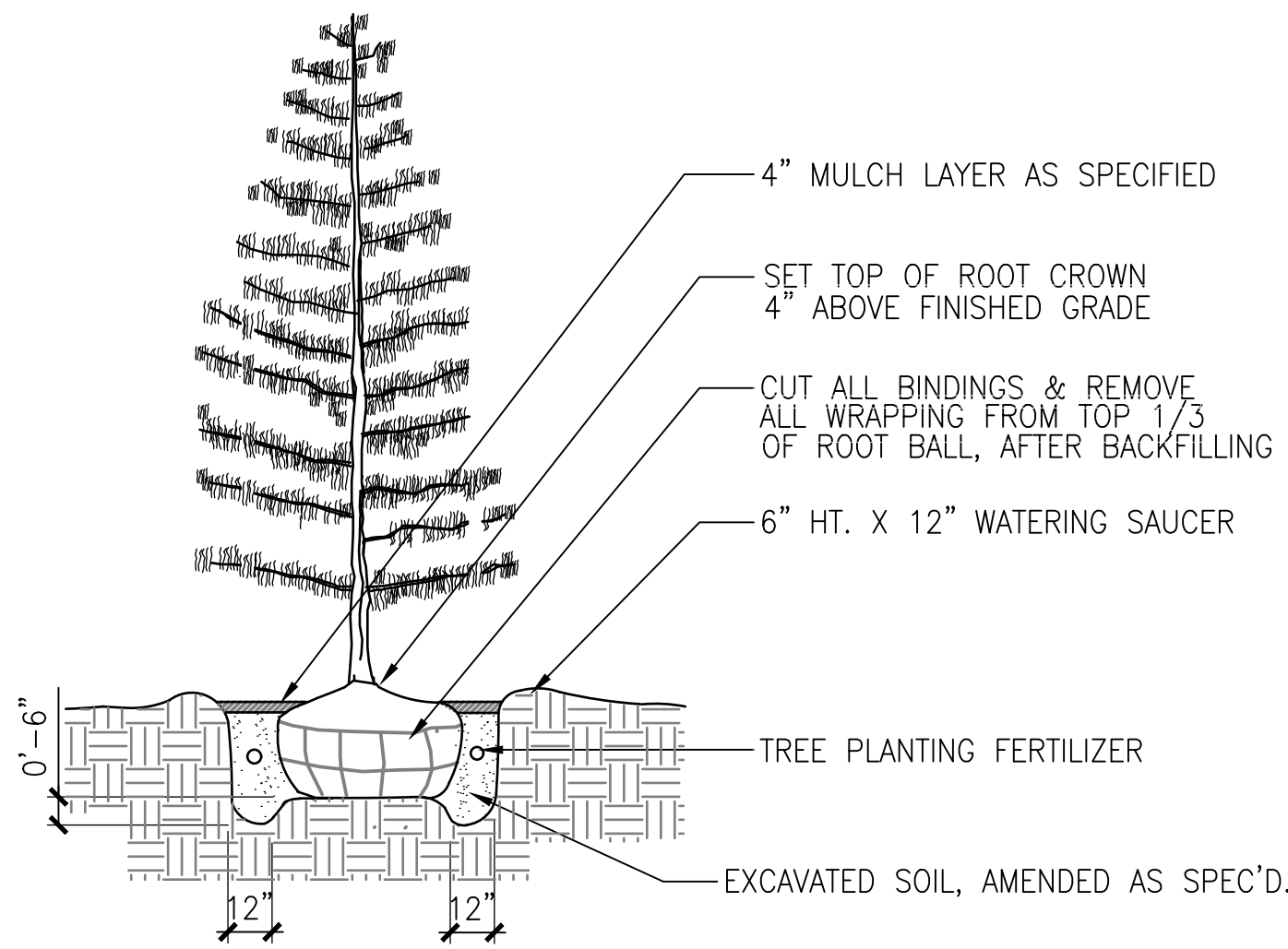
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SHADE TREE PLANTING
SCALE: NTS

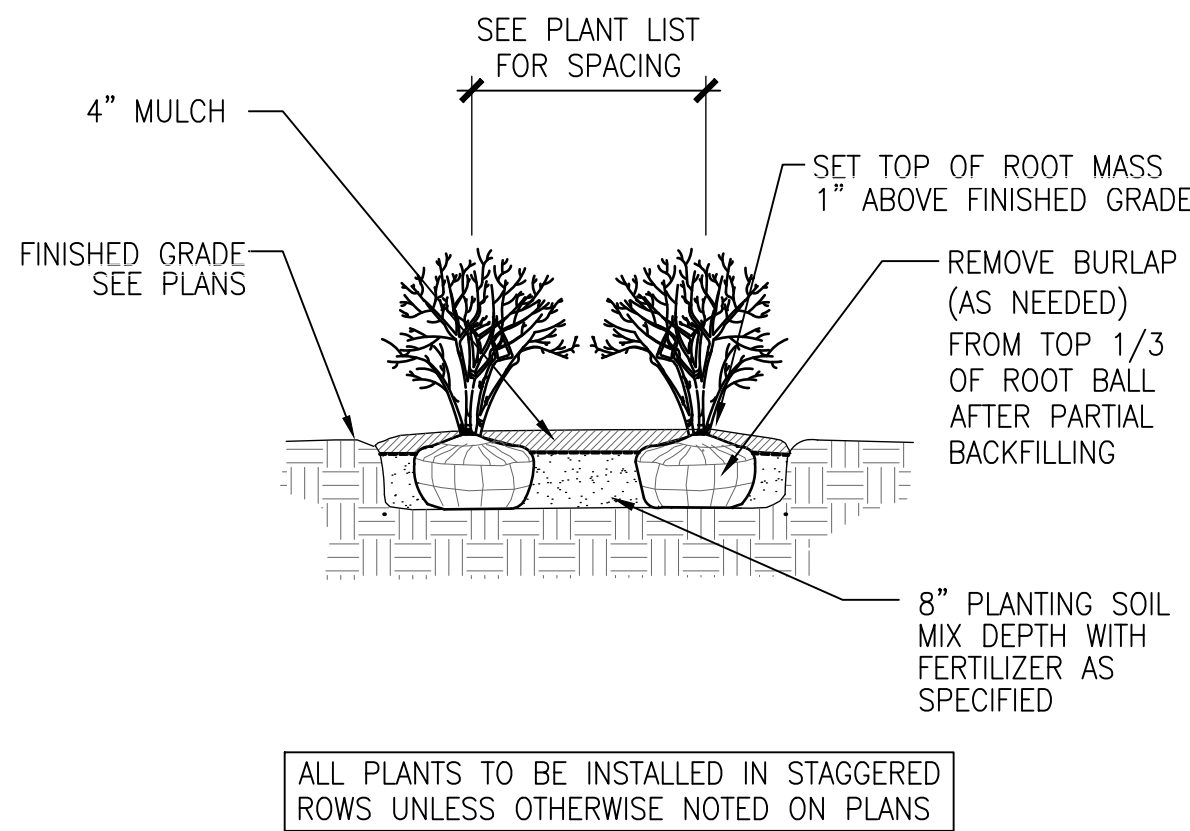


ORNAMENTAL TREE PLANTING
SCALE: 1/4"=1'-0" DT--ornamentaltree--gyn

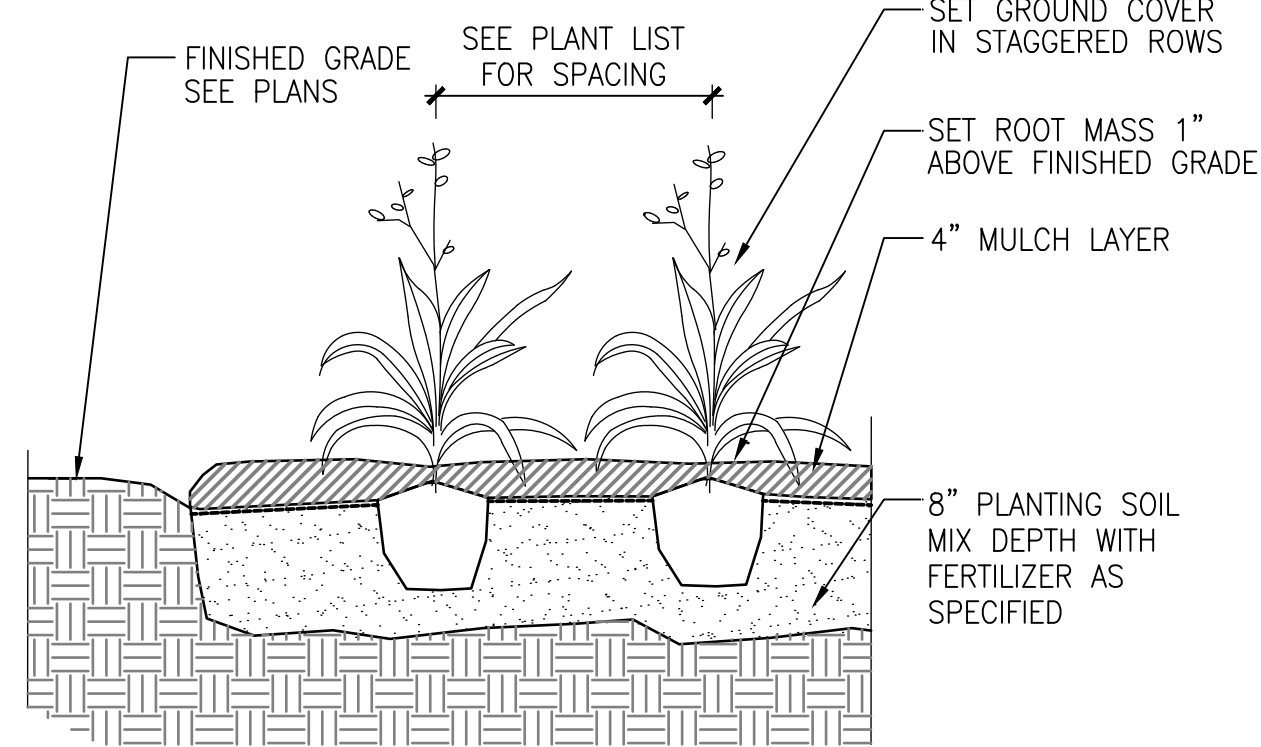


EVERGREEN TREE PLANTING
SCALE: 1/4"=1'-0" DT--evergreen--gyn

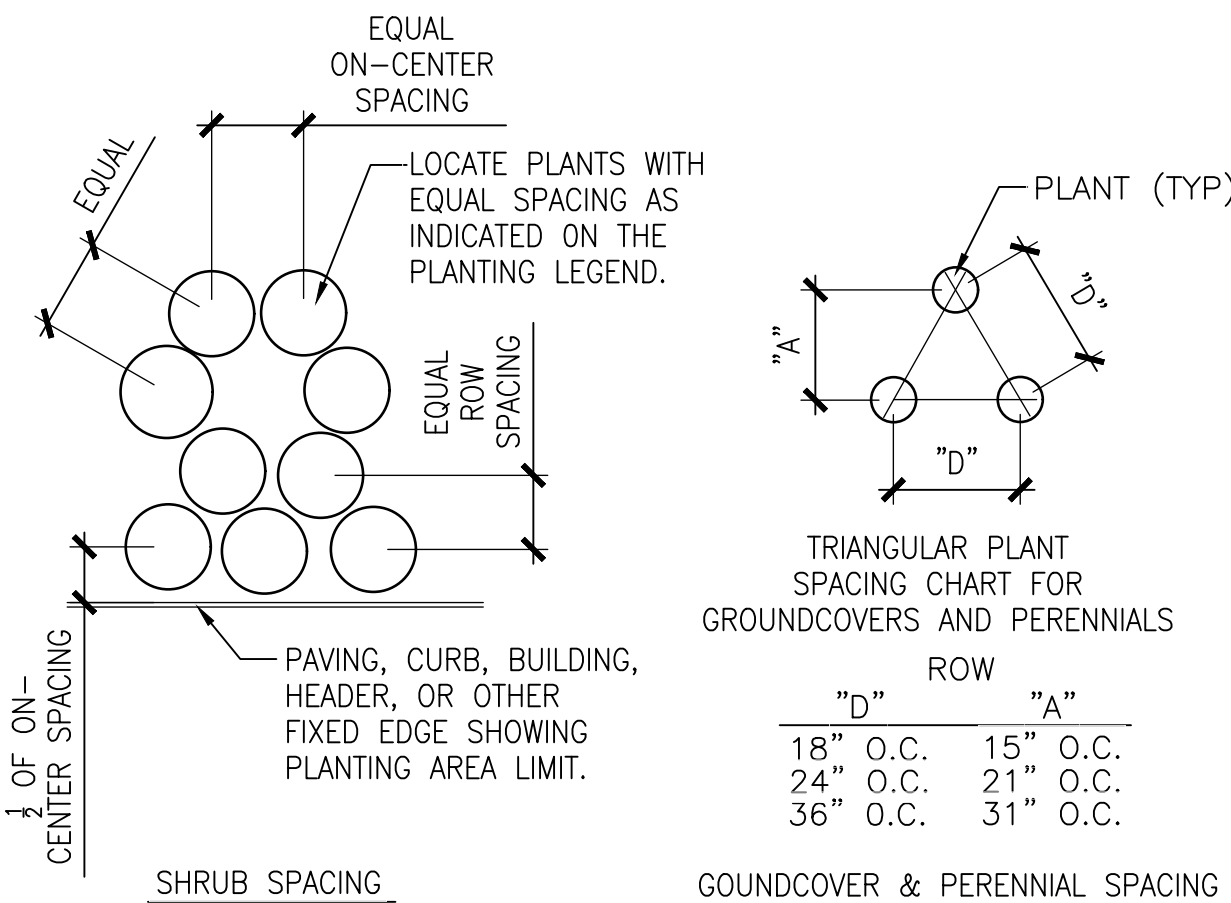
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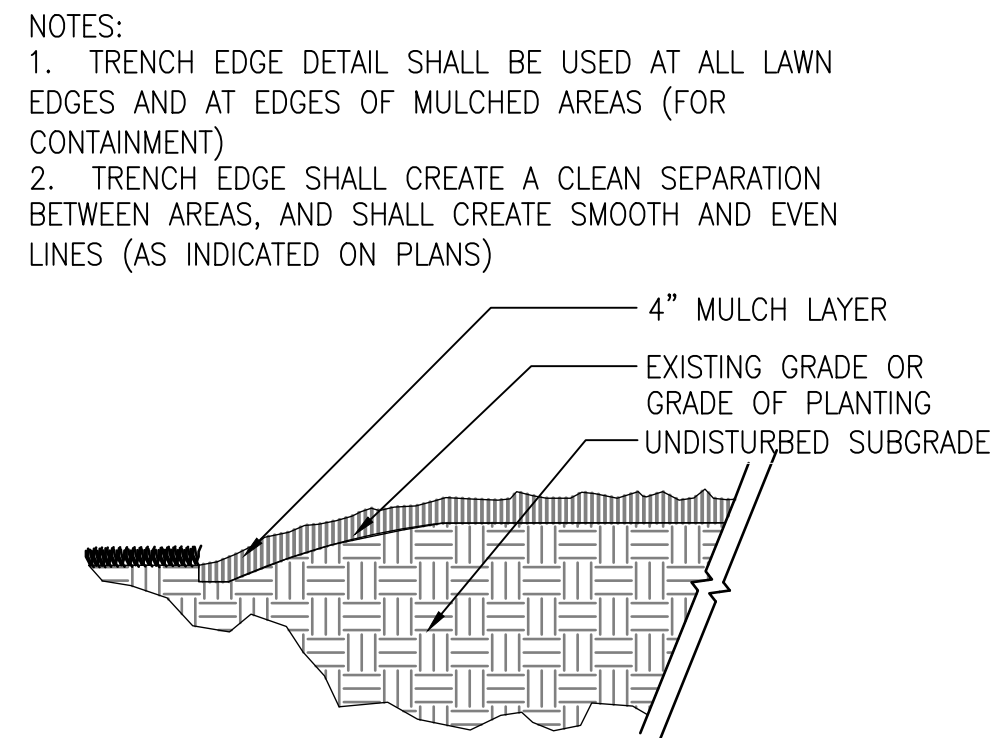
SHRUB PLANTING
SCALE: 1/2"=1'-0" DT--shrub--gyn



GROUNDCOVER PLANTING
SCALE: 1"=1'-0" DT--groundcover--gyn



PLANT SPACING DETAIL
SCALE: 1/2"=1'-0" DT--plantspace--gyn



TRENCH EDGE DETAIL
SCALE: 1"=1'-0" DT--ls--trench--gyn

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES AND STRUCTURES. SEE CONSTRUCTION NOTES.
2. DO NOT WILLFULLY PROCEED WITH PLANTINGS AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. THE LANDSCAPE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY NECESSARY REVISIONS AND COSTS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AND/OR SUPPLIERS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
4. THE LANDSCAPE CONTRACTOR IS TO RECEIVE THE SITE AT +/- 1/10TH OF AN INCH. THE LANDSCAPE CONTRACTOR SHALL OBTAIN A LETTER OF GRADE FROM THE GENERAL CONTRACTOR PRIOR TO BEGINNING WORK.
5. REFER TO SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS, AND EXECUTION.
6. ALL TREES SHALL BE TAGGED BY THE PROJECT MANAGER AT A NURSERY SELECTED BY THE LANDSCAPE CONTRACTOR OR AT THE DISCRETION OF THE PROJECT MANAGER.

PLANTING NOTES
SCALE: NTS DT--plantnote--gyn

7. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE PROJECT MANAGER PRIOR TO DIGGING ANY HOLES. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROJECT MANAGER ADEQUATE ADVANCE NOTICE FOR ON-SITE APPROVALS. THE LANDSCAPE CONTRACTOR IS TO THE FOLLOWING BEFORE BEGINNING INSTALLING PLANTINGS:

SHRUBS - LAY OUT THE ACTUAL CONTAINERS ON-SITE BEFORE DIGGING HOLES.

TREES - STAKE THE LOCATIONS BEFORE DIGGING HOLES. ANY TREE PLANTED WITHOUT ITS FINAL LOCATION APPROVED BY THE PROJECT MANAGER MAY BE REQUESTED TO BE RELOCATED AT THE SOLE EXPENSE OF THE LANDSCAPE CONTRACTOR.

8. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AT LEAST 48 HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT OBSERVATION SCHEDULES.

9. IF CONFLICTS ARISE BETWEEN THE ACTUAL SIZE OF AREAS ON THE SITE AND THE DRAWINGS, CONTACT THE PROJECT MANAGER FOR RESOLUTION.

10. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANTS FREE OF PESTS AND/OR DISEASES. PRE-SELECTED OR "PROJECT MANAGER TAGGED" PLANT MATERIAL MUST BE INSPECTED BY THE LANDSCAPE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE LANDSCAPE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIAL PER THE SPECIFICATIONS.

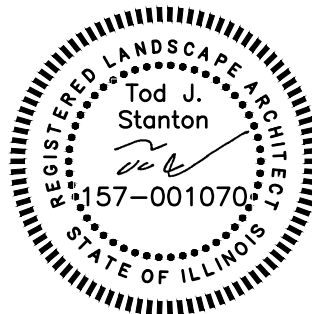
11. GROUNDCOVERS AND SHRUBS ARE TO BE TRIANGULARLY SPACED UNLESS INDICATED ON THE PLANS.
12. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM, UNLESS OTHERWISE NOTED.
13. ALL TREES, SHRUB AND GROUNDCOVER AREAS (EXCLUDING TURF AND SLOPE AREAS) ARE TO BE MULCHED PER DETAILS.
14. ALL MULCH TO BE SHREDDED HARDWOOD MULCH MINIMUM 4" THICK.
15. TREES SHALL BE SET BACK A MINIMUM OF TEN FEET (10') HORIZONTALLY FROM UTILITY STRUCTURES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES, FIRE HYDRANTS, TRANSFORMERS AND SWITCH CANS. TREES SHALL BE SET BACK A MINIMUM OF FIVE (5') HORIZONTALLY FROM SANITARY SEWER AND WATER SERVICES. CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS UNDER THE APPROVAL OF OWNER.
16. PLANTING RESTRICTIONS: PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH MAINTENANCE PERIODS TO PROVIDE REQUIRED MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION.

1. SPRING PLANTING: 5/1 - 6/15
2. FALL PLANTING: 9/15 - 12/1

A

REV.	COMMENT	DATE
1	VILLAGE RE-SUBMITTAL	4/10/2023
2	VILLAGE SUBMITTAL	5/26/2023

SEAL:



DATE: 1/10/2023
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DRAWN BY: TS
CHECKED BY: TS

DRAWING TITLE:
LANDSCAPE DETAILS

SHEET NO.:

L1.1

L. Water

1. Free of substances harmful to plant growth. Be responsible for furnishing water from underground sprinkler system, quick couplers, or other source.

M. Trees, Shrubs, Ornamental Grasses, and Perennials

1. Provide nursery grown trees, shrubs, ornamental grasses, and perennials except as otherwise indicated, grown in a recognized nursery in accordance with good horticultural practice, with healthy root systems developed by transplanting or root pruning. Provide only healthy vigorous stock, free of diseases, insects, eggs, larvae, and defects such as knots, sunscald, injuries, abrasions, or disfigurement. Plants grown in Hardiness Zones 2, 3, 4, 5, and 6 only, will be accepted. Hardiness Zones are defined in U.S. Department of Agriculture publications. Grower's certificates may be required when doubt exists as to the origin of the plant material.

2. Provide trees, shrubs, ornamental grasses, and perennials true to name and variety established by the American Joint Committee on Horticultural Nomenclature "Standardized Plant Names", Second Edition, 1942.

3. Provide trees, shrubs, ornamental grasses, and perennials of the size shown or specified in the plant list and in accordance with the dimensional relationship requirements of ANSI Z60.1 for the kind and type of plant material required. Plant material of larger than specified size may be used, in which case the sizes of the root balls will be increased proportionately.

4. Label each tree and shrub with a securely attached waterproof tag bearing legible designation of botanical and common name and size during shipping. Labels shall be removed prior to initial acceptance (substantial completion).

5. Where formal arrangements or consecutive order of plants are shown, select stock for uniform height and spread, and temporarily label with numbers (if necessary) to assure symmetry in planting. Labels shall be removed prior to initial acceptance (substantial completion).

6. Provide plant material complying with the recommendations and requirements of ANSI Z60.1 "Standard For Nursery Stock" and as further specified.

N. Deciduous Trees

1. Provide trees of the height and caliper listed or shown.

2. Where shade trees are required, provide single stem trees with straight trunk and intact leader, free of branches to a point.

3. Where small trees of upright or spreading type are required, provide trees with single stem, branched or pruned naturally according to species and type, and with the relationship of caliper and branching recommended by ANSI Z60.1, unless otherwise shown.

4. Where shown as "bush form" provide trees with 3 or more stems starting close to the ground in the manner of a shrub.

5. Where shown as a "clump form" provide trees with 3 or more stems starting from the ground.

6. Provide balled and burlapped deciduous trees unless noted as container plants. Balled and burlapped plants shall be dug with firm, natural balls of earth of the diameter specified or larger, to encompass the fibrous and feeding root system necessary for full recovery of the plant. No balled or burlapped plant shall be accepted if the ball is broken or the trunk is loose in the ball.

7. All labels and tags shall be removed prior to initial acceptance (substantial completion).

O. Deciduous Shrubs and Groundcovers

1. Provide deciduous shrubs with not less than the minimum number of canes required by ANSI Z60.1 for the type and height of shrub specified.

2. Plants furnished in containers shall have been grown in pots, cans, or baskets long enough to have sufficient roots to hold earth together intact after removal from container, without being root bound.

3. All labels and tags shall be removed prior to initial acceptance (substantial completion).

P. Coniferous and Broadleaf Evergreens

1. Provide evergreens of the size shown. Dimension indicates minimum spread for spreading and semi-spreading type evergreens and height for all other types such as globe, dwarf, cone, pyramidal, broad- up-right, and columnar.

2. Provide evergreens with well-balanced form complying with requirements for other size relationships to the primary dimension shown.

3. Trees shall exhibit consistent growth periods, and shall not exhibit signs of accelerated growth.

4. Provide balled and burlapped evergreen trees unless noted as container or collected stock.

5. Foliage shall have a good intense color.

6. Trees shall contain a central dominant leader with evenly spaced branches. Plants containing multiple central leaders will be rejected, unless the Project Manager has made special exception or tagged plant material at the nursery.

7. All labels and tags shall be removed prior to initial acceptance (substantial completion).

Q. Requirements for Balled and Burlapped Stock:

1. Where shown or specified to be balled and burlapped, provide trees and shrubs dug with a firm, natural ball of earth in which they were grown.

2. Provide ball size of not less than the diameter and depth recommended by ANSI Z60.1 for the type and size of tree or shrub required. Increase ball size or modify ratio of depth to diameter as required to encompass the fibrous and feeding root system necessary for full recovery of trees or shrubs subject to unusual or atypical conditions of growth, soil conditions, or horticultural practice.

3. Wrap and tie earth ball as recommended by ANSI Z60.1 for the size of balls required. Drum-lace balls with a diameter of thirty inches (30") or greater.

4. All labels and tags shall be removed prior to initial acceptance (substantial completion).

R. Requirements for Container Grown Stock

1. Where specified as acceptable, provide healthy, vigorous well rooted shrubs or ornamental grasses established in the container in which they are sold.

2. No bare rooted or recently containerized stock will be accepted.

3. Established container stock is defined as a tree or shrub transplanted into a container and grown in the container for a length of time sufficient to develop new fibrous roots so that the root mass will retain its shape and hold together when removed from the container.

4. Use rigid container which will hold ball shape and protect root mass during shipment.

5. Provide trees and shrubs established in containers of not less than the minimum sizes recommended by ANSI Z60.1 for the kind, type, and size of trees and shrubs required.

6. All labels and tags shall be removed prior to initial acceptance (substantial completion).

S. Plugs

1. Provide plugs in 2-3/8" square x 3-3/4" deep open-bottomed pots from a source specializing in native species. Plugs shall be sourced no more than 350 miles from the Project site.

2. Plugs shall be thoroughly rooted throughout the container.

3. See plans for species and spacing.

4. All plug installations shall be accompanied by goose enclosure, per the Drawing details, for up to 12 months after installation. Contractor to remove goose enclosure after 12 months.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.

2. Verify that plants and vehicles loaded with plants can travel to planting locations with adequate overhead clearance.

3. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.

4. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Project Manager and replace with new planting soil.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

1. Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray if used.

2. Protect grade stakes set by others until directed to remove them.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 INSTALLATION

A. General: Prepare planting area for soil placement and mix planting soil as indicated on the drawings.

B. Before planting, obtain Project Manager's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

C. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work required.

D. Cooperate with any other Contractors and trades which may be working in and adjacent to the landscape work areas. Examine drawings which show the development of the entire site and become familiar with the scope of all work required.

3.4 FINAL PLANT LOCATIONS

A. Stake location of individual trees, for approval by Project Manager, prior to planting or excavating

B. If a new tree or shrub relocation is necessary due to interference with underground piping or wiring, the Contractor shall notify the Project Manager and receive approval of a new location.

C. The Project Manager must approve the precise location of all plants prior to pit excavation and installation.

D. Make minor adjustments as requested by the Project Manager, or as necessary to avoid conflicts with utility locations.

3.5 EXCAVATION FOR PLANTING

A. Where rubble fill is encountered, notify Project Manager and prepare planting pits properly by removal of rubble or other acceptable methods.

B. If rock, underground construction work, or other obstructions are encountered in excavation for planting of trees or shrubs, notify the Project Manager. If necessary, new locations may be selected by the Project Manager

C. If subsoil conditions indicate the retention of water in planting areas, as shown by seepage or other evidence indication the presence of underground water, notify the Project Manager before backfilling.

D. Planting Pits and Trenches: Excavate circular planting pits

1. Excavate planting pits with sides sloping at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Searify sides of planting pit smeared or smoothed during excavation.

2. Excavate at least 2-times the diameter of the root ball in width.

3. Do not excavate deeper than depth of root ball, measured from the root flare to the bottom of the root ball.

4. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.

5. Maintain angles of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.

6. Maintain supervision of excavations during working hours.

7. Keep excavations covered or otherwise protected when unattended by Installer's personnel.

8. If drain tile is indicated on Drawings, or required under planting areas, excavate to top of porous backfill over tile.

E. At the Project Manager's option, plant pits will be filled with water and must drain completely within twenty-four hours to be acceptable. Pits that do not drain shall be provided with twelve inch (12") diameter X thirty six inch (36") deep auger holes (one per tree pit) to be filled with 1 1/2" gravel. A change order will be issued if the Project Manager determines drain holes shall be installed.

F. Backfill Soil: Subsoil and topsoil removed from excavation may be used as backfill soil unless otherwise indicated.

3.6 TREE, SHRUB, ORNAMENTAL GRASS, AND PERENNIAL PLANTING

A. Inspection: At time of planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

B. Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.

C. Set container grown stock, excavate as specified for balled and burlapped stock except container width and depth shall govern. Pit shall be at least twice as wide as the container.

D. Set tree ball, plumb and in the center of pit or trench with top of ball 2", minimum, above adjacent landscape grades. Remove burlap from sides and tops of balls, but do not remove from under balls. Remove platforms, if any, before setting. Do not use stock if ball is cracked, or broken before or during planting operation. When setting place additional backfill around base and sides of ball, and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill. No burlap shall be pulled out from under balls.

E. A minimum of three-quarters of the wire basket and surplus nylon or binding shall be completely removed, taking care not to damage the root ball. Any roots which are bruised or broken shall be pruned at the time of planting.

F. Set container grown stock as specified for balled and burlapped stock, except cut cans on 2 sides with a metal cutter, and remove bottoms of wooden boxes before setting. Carefully remove cans and sides of wooden boxes after partial backfilling so as not to damage root balls.

G. Set out ornamental grasses, perennials, and groundcovers at spacing noted on the Plans in even rows with triangular spacing. Dig holes large enough for spreading of roots. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.

H. For plantings in non-turf areas, provide berm around the edge of excavations to form shallow saucer to collect water and to hold mulch.

I. After planting, the Contractor shall water each plant regularly until final acceptance.

J. All labels and tags shall be removed.

3.7 EDGING INSTALLATION

A. Steel Edging: Install steel edging where indicated on the Drawings according to manufacturer's written instructions. Anchor with steel stakes spaced approximately 30 inches apart, driven below top elevation of edging.

B. Shovel-Cut (Spade) Edging: Separate mulched areas from turf areas with a 45-degree, 4 - 6 inch deep shovel-cut edge at bedlines shown on the Drawings.

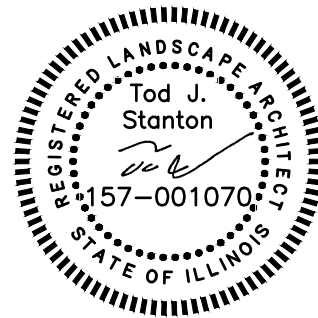
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DATE: 1/10/2023
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DRAWN BY: TS
CHECKED BY: TS

DRAWING TITLE:
LANDSCAPE
SPECIFICATIONS

SHEET NO.:
L2.2

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D

C

B

A

- C. Mow-Strip/Maintenance Edge Installation:
- Excavate for mow strip or maintenance edge as indicated on Drawings.
 - Compact subgrade uniformly beneath mow strip or maintenance edge.
 - For mow strips, apply nonselective, pre-emergent herbicide that inhibits growth of grass and weeds. For maintenance edges, install 6-oz non-woven geotextile fabric as shown on the Drawing Details.
 - Install steel edging, delineating the edge of the mow strip or maintenance edge.
 - Place indicated thickness of mulch or stone.
 - Rake mulch to a uniform surface level with adjacent finish grades.
- D. Outline Edger lines with stakes or paint for acceptance by Landscape Architect before installing irrigation.
- E. Spade cut edger shall be in all locations identified on the Drawings. Minor fine tuning of these lines may be required after the placement of sod.

3.8 MULCHING

- A. Fine grade all planting beds to be mulched allowing for full depth of specified mulch.
- B. Place specified mulch evenly over all areas at depth indicated on plans.
- C. Rake and feather finish grade of mulch level and ½" below adjacent edger surfaces (if edger is specified).
- D. Make sure mulch is at full depth at adjacent walks and paved surfaces and that mulch doesn't protrude above these surfaces.
- E. Mulch a 36" diameter ring around all trees in turf areas with specified depth of wood mulch, after irrigation areas have been watered in.
- F. All trees and shrubs in native areas are to have a mulch ring equal to the diameter of the planting pit. Mulch shall be a uniform four inches in depth. Do not remove saucer (or berm) around plants in native areas when mulching.

3.9 PRUNING

- A. Remove only dead, dying, or broken branches. Do not prune for shape.
- B. Do not cut tree leaders, and remove only injured or dead branches from flowering trees, if any.
- C. Prune shrubs to retain their natural character and shape, and to accomplish their use in the landscape design.
- D. Do not apply pruning paint to wounds.
- E. Required shrub sizes are the size after pruning.
- F. Remove and replace excessively pruned or deformed stock resulting from improper pruning.

3.10 GUYING AND STAKING

- A. Standard guying system
- Pound stakes into undisturbed soil beyond the planting pit so that stake is secure (2' deep minimum). Secure wire through metal grommets on nylon strap and wrap above first branch or at mid-point of tree. Secure guy wire to stake so that it is taut but allows some movement and so that no sharp projection of wire are extending from post. Adjust tension on wire if needed. Flag guy wire with 3/4" PVC pipe for visibility.
- B. Alternate (conifer) guying system
- Pound stakes into undisturbed soil beyond the planting pit so that stake is secure (2' deep min.), angling away from planting pit and so that top is flush with finish grade. Secure wire through metal grommets on canvas strap and wrap at mid-point of tree. Secure guy wire to stake so that it is taut but not overly tight and so that no sharp projection of wire are extending from post. Adjust tension on wire if needed. Flag guy wire with 3/4" PVC for visibility.

3.11 INSTALLING SLOW-RELEASE WATERING DEVICE

- A. Provide one device for each tree.
- B. Place device on top of the mulch at base of tree stem and fill with water according to manufacturer's written instructions.

3.12 MECHANIZED TREE-SPADE PLANTING (FOR ON-SITE TRANSPLANTS, IF INDICATED ON PLANS)

- A. Trees may be planted with an approved mechanized tree spade at the designated locations. Do not use tree spade to move trees larger than the maximum size allowed for a similar field-grown, balled-and-burlapped root ball diameter according to ANSI Z60.1, or larger than manufacturer's maximum size recommendation for the tree spade being used, whichever is smaller.
- B. Use the same tree spade to excavate the planting hole as will be used to extract and transport the tree.
- C. When extracting the tree, center the trunk within the tree spade and move tree with a solid ball of earth.
- D. Cut exposed roots cleanly during transplanting operations.
- E. Plant trees following procedures in "Tree, Shrub, Ornamental Grass, and Perennial Planting" Article.
- F. Where possible, orient the tree in the same direction as in its original location (north side north).

3.13 PLACING SOIL IN PLANTERS

- A. Place a layer of drainage gravel at least 4 inches thick in bottom of planter. Cover bottom with filter fabric and wrap filter fabric 4 inches up on all sides. Duct tape along the entire top edge of filter fabric to secure the filter fabric against the sides during the soil-filling process.
- B. Fill planter with planting soil. Place soil in lightly compacted layers to an elevation of 1-1/2 inches below top of planter, allowing natural settlement.

3.14 TURF AREA PREPARATION

- A. General: Prepare planting area for soil placement and mix planting soil as indicated on the Drawings.
- B. Placing Planting Soil: Place planting soil as indicated on the Drawings.
- Reduce elevation of planting soil to allow for soil thickness of sod.
- C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- D. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.15 PREPARATION FOR EROSION-CONTROL MATERIALS

- A. Prepare area as specified in "Turf Area Preparation" Article.
- B. For erosion-control mats, install planting soil in two lifts, with second lift equal to thickness of erosion-control mats. Install erosion-control mat and fasten as recommended by material manufacturer.
- C. Fill cells of erosion-control mat with planting soil and compact before planting.
- D. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.
- E. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.16 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h).
- Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
 - Do not use wet seed or seed that is moldy or otherwise damaged.
 - Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Sow seed at a total rate according to the written recommendations of the seed supplier.
- C. Rake seed lightly into top 1/8 inch (3 mm) of soil, roll lightly, and water with fine spray.
- D. Protect seeded areas with slopes exceeding 1:4 with erosion-control blanket installed and stapled according to manufacturer's written instructions.
- E. Protect seeded areas with erosion-control mats where indicated on Drawings; install and anchor according to manufacturer's written instructions.
- F. Protect seeded areas with slopes not exceeding 1:4 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre > to form a continuous blanket 1-1/2 inches (38 mm) in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
- Anchor straw mulch by crimping into soil with suitable mechanical equipment.
 - Bond straw mulch by spraying with asphalt emulsion at a rate of 10 to 13 gal./1000 sq. ft. (38 to 49 L/92.9 sq. m) Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.
- G. Protect seeded areas from hot, dry weather or drying winds by applying compost mulch within 24 hours after completing seeding operations. Soak areas, scatter mulch uniformly to a thickness of 3/16 inch (4.8 mm) and roll surface smooth.

3.17 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
- Mix slurry with fiber-mulch manufacturer's recommended tackifier.
 - Spray-apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre (15.6-kg/92.9 sq. m) dry weight, and seed component is deposited at not less than the specified seed-sowing rate.
 - Spray-apply slurry uniformly to all areas to be seeded in a two-step process. Apply first slurry coat at a rate so that mulch component is deposited at not less than 500-lb/acre (5.2-kg/92.9 sq. m) dry weight, and seed component is deposited at not less than the specified seed-sowing rate. Apply slurry cover coat of fiber mulch (hydromulching) at a rate of 1000 lb/acre (10.4 kg/92.9 sq. m).

3.18 SODDING

- A. Lay sod within 24 hours of harvesting. Do not lay sod if dormant or if ground is frozen or muddy.
- B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to soil or sod during installation. Tamp and roll lightly to ensure contact with soil, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
- Lay sod across slopes exceeding 1:3.
 - Anchor sod on slopes exceeding 1:6 with bio-degradable stakes spaced as recommended by sod manufacturer but not less than two anchors per sod strip to prevent slippage.
- C. Saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches (38 mm) below sod.

3.19 PLUGGING

- A. Plant plugs in holes or furrows, at spacings indicated on the Drawings in triangular pattern. On slopes, contour furrows to near level.

3.20 TURF RENOVATION

- A. Renovate existing turf where indicated.
- B. Renovate turf damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.
- Reestablish turf where settlement or washouts occur or where minor regrading is required.
 - Install new planting soil as required.
- C. Remove sod and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.
- D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other construction materials resulting from Contractor's operations, and replace with new planting soil.
- E. Mow, dethatch, core aerate, and rake existing turf.
- F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.
- G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.
- H. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches (150 mm).

- I. Apply soil amendments as required based on site-specific soil conditions and initial fertilizer required for establishing new turf and mix thoroughly into top 4 inches (100 mm) of existing soil. Install new planting soil to fill low spots and meet finish grades.
- Initial Fertilizer: Slow-release fertilizer applied according to manufacturer's recommendations.
- J. Apply seed and protect with straw mulch or sod (see Drawings) as required for new turf.
- K. Water newly planted areas and keep moist until new turf is established.

3.21 TURF MAINTENANCE

- A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
- Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
 - In areas where mulch or blanket has been disturbed by wind or maintenance operations, add new mulch/blanket and anchor as required to prevent displacement.
 - Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.
- B. Watering:
- Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
 - Water turf with fine spray at a minimum rate of 1 inch (25 mm) per week unless rainfall precipitation is adequate.

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- C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain proper grass height
- D. Turf Post-fertilization: Apply as noted in Materials Article, I. Fertilizer, based on season.

3.22 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Landscape Architect:
- Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding 5 by 5 inches (125 by 125 mm)
 - Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.
- B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

3.23 NATIVE PRAIRIE, BIOSWALE, DETENTION AREA, AND WETLAND SEEDING

- A. All work deemed native prairie, bioswale, detention area, and/or wetland seeding shall be performed by an ecological restoration contractor with at least 5 years of documented experience in selective brush clearing, planting of native species, and natural areas management for the purpose of ecological restoration, and shall be able to demonstrate their knowledge through references and in the field.
- B. Seedbed shall be well settled and firm, but friable enough that seed can be placed at the seeding depth required.
- The seedbed shall be reasonable free of weeds.
 - Soils that have been over-compacted by traffic or equipment shall be tilled to breakup root restrictive layers and then harrowed, rolled, or packed to prepare the required seedbed.
- C. Sow seed at rate indicated on the Drawings.
- Seed shall be drill seeded in a manner such that the surface is raked and rolled, seed shall have ¼" of cover.
 - Accomplish seeding by "Rangeland" type drills.
 - Any furrows left by drill seeding shall be left in place to discourage erosion and encourage seed and soil contact.
- D. When using a drill type seeder, the seeder should cover the area in two passes, perpendicular to each other. Each pass of the seeder should apply approximately ½ of the required seed.
- E. Standard erosion control blanket shall be applied to all seeded areas.
- F. Final Acceptance of seeded areas will not be granted until Landscape Architect is satisfied with germination and a full stand of vegetation is in vigorous growing condition, with consistency and completion of coverage. During this time, contractor is responsible for watering, mowing, spraying, weeding, fertilizing, and all related work as necessary to ensure that seeded areas are established in a vigorous growing condition.

3.24 NATIVE PRAIRIE, BIOSWALE, DETENTION AREA, AND WETLAND MAINTENANCE

SHORT & LONG TERM MAINTENANCE

NATIVE BASIN SPECIFICATIONS

Project Name: Rizza Porsche (8760 W. 159th Street, Orland Park, IL 60462)
Owner: Rizza Porsche
ENCAP, Inc. #: 23-0320A
Document Preparer: S. Rowley, ENCAP, Inc.
Date Prepared: April 24, 2023

1.0 PURPOSE

The purpose of this plan is to restore and re-establish a previously constructed and planted naturalized detention basin located on the Rizza Porsche site. The previously constructed basin was created for stormwater management purposes and was intended for water quality treatment through the native plantings. The basin is currently in disrepair and the restored plantings will provide improved water quality functions, soil stabilization, wildlife habitat, and aesthetics for the area.

2.0 CONTRACTOR QUALIFICATIONS

- The Native Landscape Contractor chosen for the establishment and enhancement of the natural areas must be experienced in the restoration, installation, and management of said areas. They must have a minimum of five years of experience conducting ecological restoration and management projects.
- There shall be a supervisor available at all times that can identify non-native and native plants by genus and species. The goal of installing successful native plant communities is a long-term process. Therefore, it is imperative that a qualified Native Landscape Contractor perform the initial installation and maintenance.

3.0 QUALITY AND CONDITION

- All native seed proposed for the project shall be provided as Pure Live Seed (PLS) and sourced from within a 200-mile radius of the project location. Plant origins outside of this range must be approved by the Wetland Consultant.
- Native seeds shall be blended by the vendor, and the mixture and ratio shall be guaranteed in writing to be as specified. The amount of seed indicated on the specifications shall mean the total amount of pure live seed (PLS) per acre for all species listed. It is the sole responsibility of the Native Landscape Contractor to provide approved seed that meets industry-standard PLS requirements.
- Native Landscape Contractor shall provide the Wetland Consultant with the name and location of the seed supplier, origin of the various kinds of plants, and a statement of the purity of the seed.
- Seed shall conform to applicable State and Federal regulations as in effect on the date of letting. Unless otherwise specified, seed shall not contain in excess of 1 percent weed seeds; 0 percent is desirable.
- All storage requirements, stratification, and scarification considerations shall be the sole responsibility of the Native Landscape Contractor.
- If specified for the seed mixture, mycorrhizal inoculants shall be pelletized and mixed at 1 lb. per acre with the fine seeds before installation. The inoculants shall contain a diverse mixture of Glomales fungal species (Glomus spp.) in pelletized form.
- Under no circumstances shall Wheat (Triticum aestivum), Cereal Rye (Secale cereale), Perennial Rye (Lolium perenne), or Barley (Hordeum vulgare) be used as a temporary cover crop.

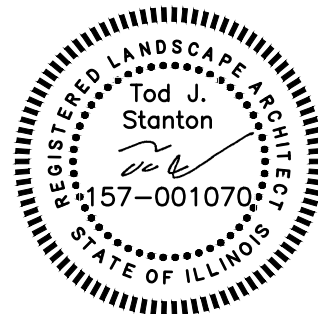
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REV.	COMMENT	DATE
1	VILLAGE RE-SUBMITTAL	4/10/2023
2	VILLAGE SUBMITTAL	5/26/2023

SEAL:



DATE: 1/10/2023
JOB NO.: 22-8647
DRAWN BY: TS
CHECKED BY: TS

DRAWING TITLE:
LANDSCAPE
SPECIFICATIONS

SHEET NO.:

L2.3

