

Urban Forestry Commission

Cravath Lakefront room 2nd floor 312 West Whitewater Str, Whitewater, WI, 53190 *In Person and Virtual

Monday, January 22, 2024 - 4:30 PM

Citizens are welcome (and encouraged) to join our webinar via computer, smart phone, or telephone.

Citizen participation is welcome during topic discussion periods.

Urban Forestry Commission

Jan 22, 2024, 4:30 – 6:30 PM (America/Chicago)

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AGENDA

CALL TO ORDER

ROLL CALL

INTRODUCTION OF KEVIN BOEHM

APPROVAL OF MINUTES

1. Approval of Minutes from October 23, 2023 Meeting.

HEARING OF CITIZEN COMMENTS

No formal Committee action will be taken during this meeting although issues raised may become a part of a future agenda. Participants are allotted a three minute speaking period. Specific items listed on the agenda may not be discussed at this time; however, citizens are invited to speak to those specific issues at the time the Committee discusses that particular item.

To make a comment during this period, or during any agenda item: On a computer or handheld device, locate the controls on your computer to raise your hand. You may need to move your mouse to see these controls. On a traditional telephone, dial *6 to unmute your phone and dial *9 to raise your hand.

TREASURER'S REPORT

STAFF REPORT

CONSIDERATIONS / DISCUSSIONS / REPORTS

- Discussion and possible Approval of the Landscape Plans for Dollar Tree, located at the corner of Indian Mound Parkway and W. Main Street Parcel #/A503300001.
- Discussion and possible approval of the Landscape Plans for Aldi's to be located at 1370W. Main St., Parcel # WUP 00159.
- 4. Discussion to add a fourth Purple Martin house.
- Discussion and possible approve of the Landscape Plans for Starbucks located at 1280 W Main St., Parcel # /A170900002.

TREE CITY

- <u>6.</u> Future of Territorial Oak felled timber and possible projects relating to it.
- 7. Discussion of the 2024 Tree Sale

Concerning Numbers

Types of Trees

Date of Sale

- 8. Arboretum Grant Update
- 9. Kiwanis Kids Program recap report from October 30, 2023.
- 10. Pulse Sign order and installation plan

BIRD CITY

11. Discussion of 2022 approval

NEW BUSINESS

- <u>12.</u> Milkweed Protection Discussion
- 13. Protection of oaks from library expansion

FUTURE AGENDA ITEMS

ADJOURNMENT

A quorum of the Common Council may be present. This notice is given to inform the public that no formal action will be taken at this meeting.

Anyone requiring special arrangements is asked to call the Office of the City Manager / City Clerk (262-473-0102) at least 72 hours prior to the meeting.

Urban Forestry Commissio

Item 1.



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Monday, October 23, 2023 - 4:30 PM

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Urban Forestry Commission

Oct 23, 2023, 4:30 – 6:30 PM (America/Chicago)

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MINUTES

CALL TO ORDER

Meeting was called to order at 4:32 p.m. by

ROLL CALL

Present: Sherry Stanek, David Stone, Nicholas Alt, Rose Mary Leaver, Patrick Taylor, Bill Chandler, Andrew Beckman Absent: Ryan Tevis Guest Kori Oberle, Dollar Tree Reps, Andrea Lemken and Civil Engineer Andy Gebhart

APPROVAL OF URBAN FORESTRY SEPTEMBER 25, 2023 MINUTES

1. Approval of September 25, 2023 Minutes

Motion by N. Alt second by D. Stone. Passed unanimously by voice vote.

HEARING OF CITIZEN COMMENTS

No Citizen comments.

TREASURER'S REPORT

Balance is \$1,014.09. No action since last month.

STAFF REPORTS

2. Territorial Oak

Beckman present that the territorial oak is coming down 10-24-2023. Markers taken down. Traffic Flow was discussed. Wood will be going to City garage storage until plan for playground and possible slice for arboretum (slab size needs to be determined). Largest chunks possibly will be preserved. This will take most of the day.

2024 Terrace Tree Order

Order was put in to secure the Butternut from Johnson's. We have 48 trees for spring delivery. Will check later about any price update. Butternut is planned for a park not a terrace. Trees ordered are local and varied. No longer mono-cultures.

CONSIDERATIONS / DISCUSSIONS / REPORTS

3. Review and possible approval of the Landscape Plan for Dollar Tree.

Stanek mention that there are only 5 honey locust trees. There is more than a 15 ft buffer on all sides. So little detail on plans and city ordinance and landscape guidelines.

Stone: Usually a lot more detail vegetation.

Alt: One type of tree in 5 spots and calling it landscape Doesn't seem that is not enough.

Dollar tree representative thought they were following all guidelines, but if there is a additional requirements, than would like to see it.

Stanek: Building in wetland area and what are plans to mitigate

Dollar tree: Buy credits from the DNR.

Dollar: Will meet all requirements. If there are additional guidelines then will work with City to do the right thing.

Conclusion: Not approved as is, will work together to make it work.

TREE CITY

4. Tree Sale:

Alt needs to get the last 2 years. Would like to get a number of trees for spring 2024. This past year we sold all but 4 and those were put into parks. The year before we sold out. Would like the ability to do a pre-sale on line as a possible.

Chandler not sure about presale because advertising and delivery. Leaning toward not doing a presale online.

New parks director we can't approved city money. The park director needs to add to the budget.

Stanek: if people want to order tree they can from other sources. Jim wont' all us to use to use his truck to transport trees. Goal of UFC is to get trees into community not to make money, just cover the expenses.

Suggestions for moving forward. Still want community tree sale. Maybe a different date no arbor day and change to a Friday and Saturday.

Alt: Order list has been modified to reflect sales from previous years. Ok to research presale.

Reconsider whether market has been tapped.

Spring and increase adversting with approval of the City.

Alt and Stanek to meet with Park Director.

Northern White Cedar is the densest tree.

Page 18 is cost and trees.

Motion by Taylor to have tree sale with 250 trees to be conducted as in the past, looking for later in spring for pending weather. Pending approval of the City. Second by Alt. Passed unanimously by voice vote.

6. Arboretum Update

Trying to finish up grant needs to be satisfied.

7. Update on Pulse welcome signs

Signs will now be delivered November 4th. Signs paid for. Pulse Company has been difficult to work with.

BIRD CITY

8. 2022 Certification for Bird City Application Discussion

Certification process was discussed. There were a lot of questions about not adding ordinance. City Manager to read resolution regarding Bird City.

NEW BUSINESS

9. Milkweed Protection Discussion

Put off till next time.

10. Protection of oaks from library expansion

Final approval by the planning board has not been done. Protection still possible.

New item for Next Agenda

Funding for fourth purple martin house.

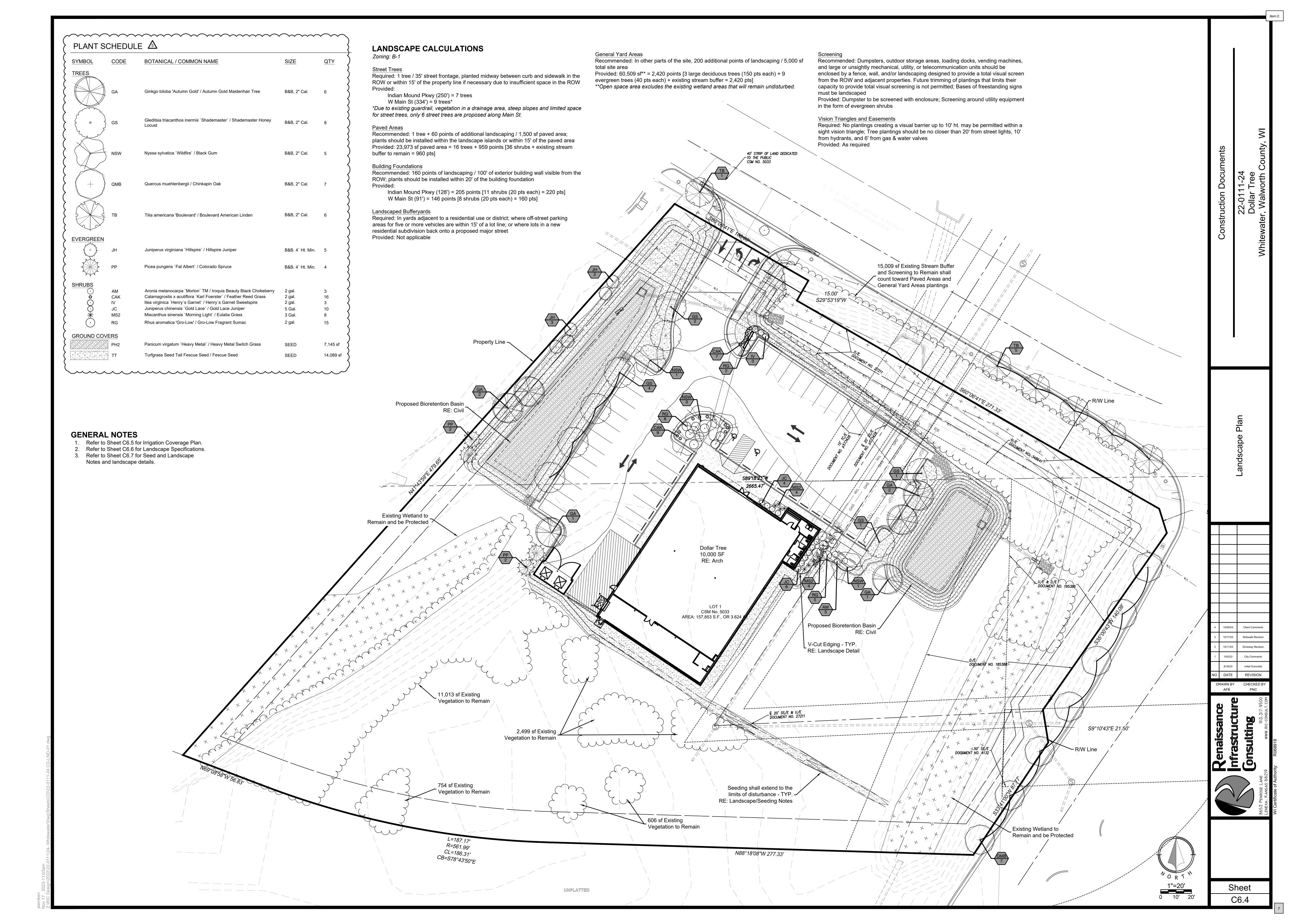
Next Meeting is November 27, 2023

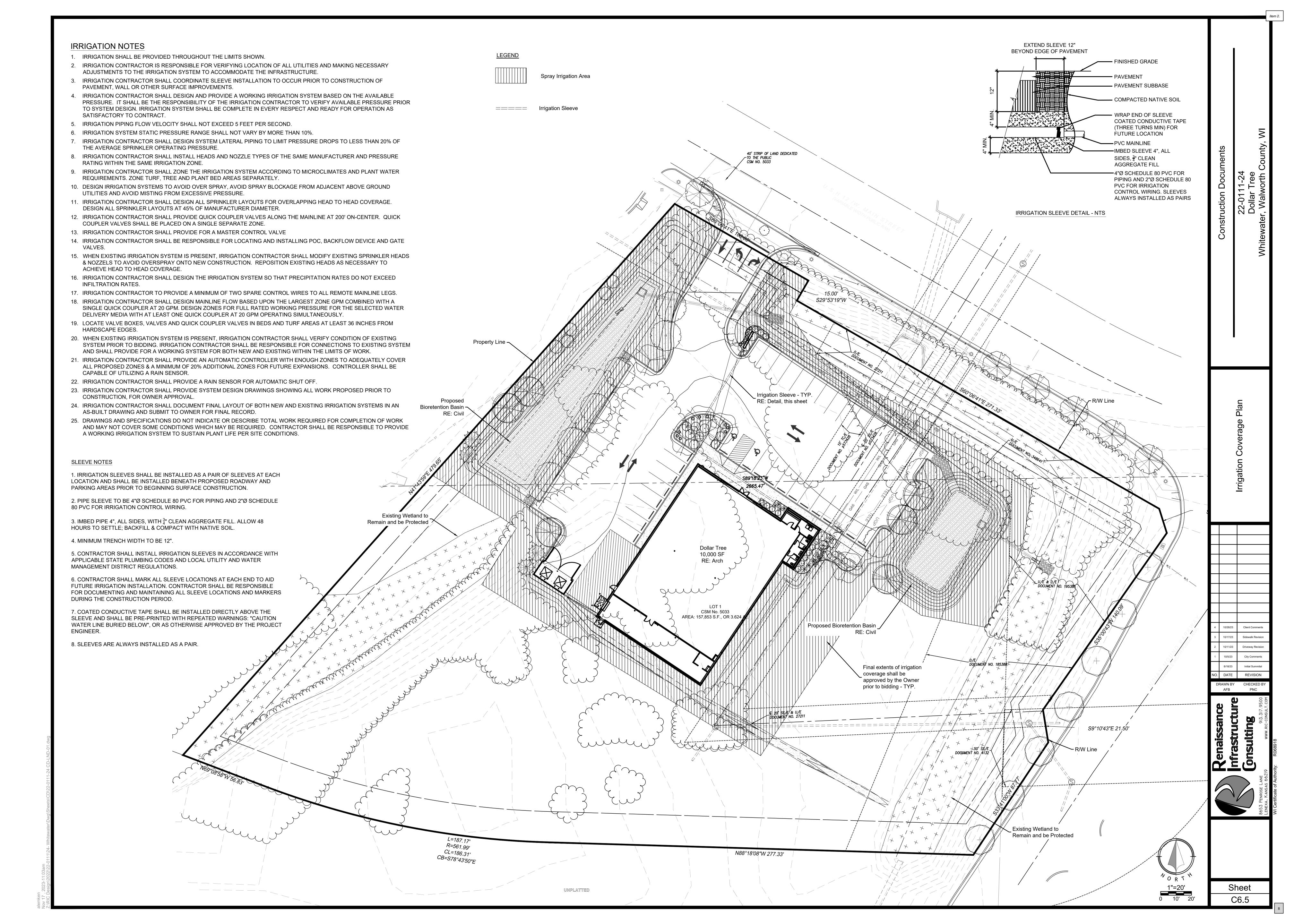
ADJOURNMENT

Meeting was adjourned at 6:05 p.m.

A quorum of the Common Council may be present. This notice is given to inform the public that no formal action will be taken at this meeting.

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C. Testing Agency Qualifications: To qualify for acceptance, an independent testing agency must demonstrate to Landscape Architect's satisfaction, based on evaluation of agency-submitted criteria conforming to ASTM E 699, that it has the experience and capability to satisfactorily conduct the testing indicated without delaying the Work. D. Topsoil Analysis: Furnish a soil analysis made by a qualified independent soil-testing agency stating percentages of organic matter by Loss on ignition, inorganic matter (proportion of silt, clay, and sand), deleterious material including biological contamination, pH, mineral and plant-nutrient content of topsoil, and cationic exchange capacity. 1. Report suitability of topsoil for grass growth from horticulturist. State recommended quantities of nitrogen, phosphorus, and potash nutrients and any limestone, aluminum sulfate, or other soil amendments to be added to produce satisfactory topsoil. 1.5 DELIVERY, STORAGE AND HANDLING A. Sod: Harvest, deliver, store, and handle sod according to the requirements of the Turfgrass Producers International (TPI) "Specifications for Turfgrass Sod Materials and Transplanting/Installing." B. Native Seed: Delilver packaged materials in containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored at site. 1.6 COORDINATION AND SCHEDULING A. Planting Season: Install seed during normal planting seasons for type of lawn work required. Correlate planting with specified maintenance periods to provide required maintenance from date of Substantial Completion. B. Weather Limitations: Proceed with work only when existing and forecast weather conditions are suitable for work. MAINTENANCE

1.3 SUBMITTALS

A. Certification of each seed mixture for sod, identifying the sod source, including name and telephone number of

supplier. Seed for sod must be sod quality and is to be gold tag standards with 0% other crop seed and 0% weed seed. B. Certification of each seed type for Native Grass mixture identifying the seed source, including name and telephone number of supplier.

C. Engineer has final approval of seed grower, no exceptions. D. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and address of architects

D. Post-fertilization: Apply fertilizer to lawn after first mowing and when grass is dry. and owners, and other information specified.

E. Material test reports from qualified independent testing agency indicating and interpreting test results relative to compliance of the following materials with requirements indicated.

1. Agronomic and biological analysis of existing surface soil. 2. Agronomic and biological analysis of all imported topsoil

F. Maintenance instructions recommending procedures to be performed by Owner for maintenance of landscaping during an entire year. Submit before expiration of required maintenance periods.

.4 QUALITY ASSURANCE A. Qualifications: A qualified subcontractor shall employ or provide a qualified installation manager who meets any or 2.2 LIMITED SOIL AMENDMENTS all of the required qualifications; A. Herbicides: EPA registered and approved, of type recommended by manufacturer and approved by the Landscape

1. Bachelor of Science Degree in Horticulture, Botany, Soil Physics, Agronomy, General Agriculture, Agricultural or Biological Engineering, or a related field. 2. An individual with field experience as approved by the Landscape Architect or Registered Engineer.

B. Installer Qualifications: Engage an experienced Installer who has completed landscaping work similar in material, design, and extent to that indicated for this Project and with a record of successful turf establishment. 1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on the Project site during times that turf planting is in progress.

1. Sodded Lawns: 90 days from the date of Substantial Completion

D. Post-fertilization: Apply fertilizer to lawn after first mowing and when grass is dry.

2. Seeded Lawns: 90 days from the date of Substantial Completion

3. Native Grass Areas: 12 months from the date of Substantial Completion. B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting and other operations per this Specification.

C. Watering-Subcontractor shall be responsible of watering the sod as required by this Specification. Subcontractor may use irrigation system to accomplish watering. Subcontractor shall be responsible for coordinating with irrigation contractor for scheduling of irrigation system to provide required water needs.

PART 2 - PRODUCTS

2.1 TOPSOIL A. Standard Topsoil: ASTM 5268, pH range 5.5 to 7. Free of stones 1 inch or larger in any dimension, and other extraneous materials harmful to plant growth.

B. Compost Soil Blend: As located in plan, areas denoted as Compost Soil Blend shall be provided as 50% Standard Topsoil or Native Topsoil and 50% Compost for a depth of 12". pH range shall be 5.5 to 7. 1. Topsoil Source: Reuse surface soil stockpiled on the site where available. Verify suitability of surface soil to

produce topsoil meeting requirements and amend when necessary. Supplement with imported topsoil when quantities are insufficient. Imported topsoil shall meet the requirements of this specification for composition. Clean all topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials

harmful to plant growth. 2. Compost Soil Blend shall have a minimum infiltration rate between 0.25" to 0.5" per hour.

2.2 LIMITED SOIL AMENDMENTS A. Herbicides: EPA registered and approved, of type recommended by manufacturer and approved by the Landscape Architect

B. Compost: Well-composted, stable and weed-free organic matter, pH range of 5.5-8; moisture content 35-55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content less than 4 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings. C. Water: Potable.

GRASS SEED:

A. Provide fresh, clean, new crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America and as required below.

B. Be labeled according to the U.S. Department of Agriculture Federal Seed Act and shall be furnished in containers 3.1 EXAMINATION with tags showing seed mixture, purity, germination, weed content, name of seller, and date on which seed was

C. Seed Mix: 10% Bluegrass & 90% Turf-Type Tall Fescue, composed of an equal mix of three or four compatible species of bluegrass and one or two species of fescue. The mixture shall not include any varieties of the slower 3.2 PREPARATION growing "Dwarf" fescue types.

1. Fescue Varieties, or approved equal Apache, Arid, Austin, Bonanza, Carefree, Cheiftan, Cimmaron, Cochise, Falcon, Guardian, Houndog, Jaguar II, Maverick II, Mustang, Olympic, Phoenix, Rebel II, Rebel 3D, Safari, Shenandoah, Thoroughbred, Titan, Tribute, Vegas

2. Bluegrass Varieties, or approved equal Asset, Kenblue, Midnight, Nassau, Ruby II, Troy

3. Moldy seed or seed that has been damaged in storage shall not be used.

4. Landcape Architect shall have final approval of all seed blends and mixtures.

D. Cover Crop: As approved by Landscape Architect, Contractor shall submit mix for approval.

D. Fresh, clean, dry, pure-live seed complying with Kansas Department of Agriculture laws for purity, germination,

and noxious weed tolerances: Seed Components: Provide seed of grass and forb species and varieties, proportions by weight, and minimum percentages of purity, germination, and maximum percentage of weed seed as indicated on Schedules at the end of this Section. Seed lots, unblended, shall be provided to horticulturist in original unopened containers for agro-histological determination and re-testing. The Master label shall be produced by the

horticulturist, and shall be sealed according to the appropriate laws and regulations All seed must be tested by a registered seed technologist per AOSA methods and meet all requirements established by the Missouri Department of Agriculture. The contractor will provide documentation with the seed shipment for the following information;

 a. State of Origin b. Year of Harvest

c. Genus species Identification d. Seed Lot #

e. Packaged Quantity f. Identification of Seed Supplier g. Supplier Certification Number h. State of Supplier Registration

j. Percent Germination k. Percent Hard Seed Percent Foreign Matter m. Percent Weed Seed

establishment, but for no less than the following periods:

extraneous materials harmful to plant growth.

C. Water: Potable.

2.3 GRASS SEED

1. Seeded Lawns: 90 days after date of Substantial Completion.

contractor for scheduling of irrigation system to provide required water needs.

percent inert contaminants and free of substances toxic to plantings.

i. Percent PLS Per Seed Lot

n. Identification of Noxious Weed Seed o. Date of Seed Testing

p. Identification of Seed Testing Company

3. Landscape Architect has final approval, no exceptions. 4. Seed Source: Shall be submitted to Landscape Architect for approval.

A. Lawns/turf areas: Begin maintenance of turfgrass immediately after each area is planted and continue until acceptable

B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting and other operations

C. Watering- Subcontractor shall be responsible of watering the sod as required by this Specification. Subcontractor may

A. Standard Topsoil: ASTM 5268, pH range 5.5 to 7. Free of stones 1 inch or larger in any dimension, and other

1. Topsoil Source: Reuse surface soil stockpiled on the site where available. Verify suitability of surface soil to

B. Compost: Well-composted, stable and weed-free organic matter, pH range of 5.5-8; moisture content 35-55 percent by

weight; 100 percent passing through 3/4-inch sieve; soluble salt content less than 4 decisiemens/m; not exceeding 0.5

quantities are insufficient. Imported topsoil shall meet the requirements of this specification for composition.

produce topsoil meeting requirements and amend when necessary. Supplement with imported topsoil when PART 3 -

Clean all topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant 3.1 EXAMINATION

use irrigation system to accomplish watering. Subcontractor shall be responsible for coordinating with irrigation 2.5 MYCORRHIZAL INOCULANT

B. Native Seed Mix (Or Approved Equal): 2 lbs / 1,000 Sf

D. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray. 1. Lower Basin Native Seed: Detention Basin Seed Mix by Prairie Moon Nursery (ph. 886-417-8156), Low E. Rake seed lightly into top 1/8 inch of topsoil, roll lightly, and water with fine spray Native Mix by CritSite (ph. 816-331-9738) or Approved Equal.

2. Upper Basin Native Seed: Tallgrass Exposed Clay Subsoil Seed Mix by Prairie Moon Nursery (ph. 886-417-8156), Painted Prairie Seed Mix by CritSite (ph. 816-331-9738) or Approved Equal. C. Native Seed Cover Crop

1. The use of a Cover Crop to help with the establishment of Native Grasses shall be approved by the Landscape Architect prior to use. Contractor shall submit Cover Crop seed mixes prior to installation.

2.5 FERTILIZER (Turfgrass only, do not fertilize Native Seed areas)

B. Utilize Straw Mat within all seed areas on slopes greater than 4:1.

runoff or airborne dust to adjacent properties and walkways.

A. Commercial fertilizer of neutral character, with some elements derived from organic sources, containing not less than 4 lbs. of actual nitrogen per 1,000 square feet of lawn area. Provide nitrogen in form that will be available to the lawn under the following products or approved equal. During the maintenance period the following fertilizers shall be used or approved equal:

1. Starter Fertilizer: Dyna Green Starter 12-20-06 with Fertil Blend. Total nitrogen: 7.83% ammoniacal, 4.17% urea; Phosphate: Ammonium phosphate 20%; Potash MOP: 6%; Iron: 1%; SGN 200 2. Spring Fertilizer Dyna Green Long Lasting 22-0-8 with 50% UMAXX, 1,757% Viper & Fertil Blend. Total nitrogen: 22% urea with slowly available nitrogen from 50% UMAXX®; Potash MOP: 8%; Iron: 1%;

3. Fall Fertilizer: Dyna Green Winterizer 18-0-9 with 1.434% Surge & Fertil Blend. Total nitrogen: 18% urea; Potash MOP: 8%; Iron: 1%; SGN 200. Apply September to October.

B. Deliver to site in labeled bags or containers. 2.6 MYCORRHIZAL INOCULANT

SGN 200. Apply March to June.

A. The Subcontractor shall utilize an organic, mycorrhizal inoculant for soil prep. The material shall be granular and applied per manufacturer's recommendation. M-Roots w/ Mycorrhiza or approved equal. For exact finish, insert 3.5 RECONDITIONING LAWNS: names of coating manufacturers and products.

2.7 STRAW MAT A. Provide a biodegradable single net, two sided organic straw mat with functional longevity of 10-12 months by Greenfix Amerca, Product WS072 Double Net Straw or Approved Equal.

PART 3 - EXECUTION

A. Examine areas to receive lawns for compliance with requirements and for conditions affecting performance of work of this Section. Do not proceed with installation until unsatisfactory conditions have been corrected.

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations. B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water

3.3 SOIL PREPARATION

A. Dispose of any growth, rocks, or other obstructions which might interfere with tilling, seeding, sodding, or later maintenance operations. Remove stones over 38 mm (1 1/2 inches) in any dimension and sticks, roots, rubbish, and other extraneous matter.

B. Thoroughly loosen and pulverize topsoil to a depth of at least 100 mm (4 inches) for all standard turfgrass areas. Areas denoted as "Compost Soil Blend", shall be loosened and amended to a depth of 12 inches

C. Grade lawn areas to a smooth, even surface with loose, uniformly fine texture. Roll and rake, remove ridges and fill depressions to meet finish grades. Limit fine grading to areas which can be planted within immediate future. D. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry off before planting of lawns. Do not create a muddy soil condition.

E. Restore prepared areas to specified condition if eroded or otherwise disturbed after fine grading and prior to F. Spread top soil mixture to depth required to meet thickness, grades, and elevations indicated after light rolling and natural settlement.

G. Allow for sod thickness in areas to be sodded. H. Preparation of Unchanged Grades: Where lawns are to be planted in areas that have not been altered or disturbed

by excavation, grading, or stripping operations, prepare soil for lawn planting as follows: 1. Remove and dispose of existing grass, vegetation, and turf. Do not turn over into soil being prepared for

2. Till surface soil to a depth of at least 6 inches. Apply required soil amendments and initial fertilizers and mix thoroughly into top 4 inches of soil. Trim high areas and fill in depressions. Till soil to a homogenous mixture of fine texture.

3. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant

4. Remove waste material, including grass, vegetation, and turf, and legally dispose of it off the Owner's 3.4 SEEDING NEW LAWNS (Turf-Type Seed):

A. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.

A. Provide fresh, clean, new crop seed complying with tolerance for purity and germination established by Official Seed

B. Be labeled according to the U.S. Department of Agriculture Federal Seed Act and shall be furnished in containers

Apache, Arid, Austin, Bonanza, Carefree, Cheiftan, Cimmaron, Cochise, Falcon, Guardian, Houndog, Jaguar II,

A. Post Seeding Commercial fertilizer of neutral character, with some elements derived from organic sources, containing not less than 1 lbs. of actual nitrogen per 1,000 square feet of lawn area. Fertilizer shall be applied per manufacturers

B. Commercial Starter Fertilizer: Prior to the use of a starter fertilizer, the contractor shall perform a soil test and amend

soil as required to ensure optimum growth performance. Starter fertilizer shall be applied per manufacturers

The Subcontractor shall utilize an organic, mycorrhizal inoculant for soil prep. The material shall be granular and

A. Provide a biodegradable single net, two sided organic straw mat with functional longevity of 10-12 months by

A. Examine areas to receive lawns for compliance with requirements and for conditions affecting performance of work

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage

B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water

A. Dispose of any growth, rocks, or other obstructions which might interfere with tilling, seeding, sodding, or later

of this Section. Do not proceed with installation until unsatisfactory conditions have been corrected.

applied per manufacturer's recommendation. M-Roots w/ Mycorrhiza or approved equal. For exact finish, insert

4. All seed shall be hulled and/or coated for optimum growth performance and quicker establishment.

with tags showing seed mixture, purity, germination, weed content, name of seller, and date on which seed was tested.

. Seed Mix: 10% Bluegrass & 90% Turf-Type Tall Fescue, composed of an equal mix of three or four compatible

species of bluegrass and one or two species of fescue. The mixture shall not include any varieties of the slower

Maverick II, Mustang, Olympic, Phoenix, Rebel II, Rebel 3D, Safari, Shenandoah, Thoroughbred, Titan, Tribute,

Analysts of North America and as required below.

growing "Dwarf" fescue types.

recommendations

2.6 STRAW MAT

C. Deliver to site in labeled bags or containers.

caused by planting operations.

3.3 SOIL PREPARATION

names of coating manufacturers and products.

. Fescue Varieties, or approved equal

2. Bluegrass Varieties, or approved equal

a. Asset, Kenblue, Midnight, Nassau, Ruby II, Troy

3. Moldy seed or seed that has been damaged in storage shall not be used.

Greenfix Amerca, Product WS072 Double Net Straw or Approved Equal.

B. Utilize Straw Mat for dormant seeding and on slopes greater than 4:1.

runoff or airborne dust to adjacent properties and walkways.

5. Landscape Architect shall have final approval of all seed blends and mixtures.

D. Cover Crop: As approved by Landscape Architect, Contractor shall submit mix for approval.

B. Sow seed with a Brillion type seeding machine or where applicable and restricted by steep slopes or other areas not accessible to the seeding machine, broadcast or drop seed methods may be used. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other, and 3 directions in high maintenance areas, as directed by the Engineer. C. Sow not less than rate of 8 pounds per 1,000 square feet.

surrounding soil, but not cause erosion or disposition of seeds.

maintenance operations. Remove stones over 38 mm (1_1/2 inches) in any dimension and sticks, roots, rubbish, and other extraneous matter. B. Thoroughly loosen and pulverize topsoil to a depth of at least 100 mm (4 inches) for all standard turfgrass areas.

C. Grade lawn areas to a smooth, even surface with loose, uniformly fine texture. Roll and rake, remove ridges and fill depressions to meet finish grades. Limit fine grading to areas which can be planted within immediate future. D. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry off before

planting of lawns. Do not create a muddy soil condition. E. Restore prepared areas to specified condition if eroded or otherwise disturbed after fine grading and prior to planting. F. Spread top soil mixture to depth required to meet thickness, grades, and elevations indicated after light rolling and

natural settlement. G. Allow for sod thickness in areas to be sodded. H. Preparation of Unchanged Grades: Where lawns are to be planted in areas that have not been altered or disturbed by 3.6 PROTECTION:

excavation, grading, or stripping operations, prepare soil for lawn planting as follows:

to manufacturer's recommendations.

1. Perform seeding only during the following seasons:

a. Fall Seeding: August 15th to October 1st.

b. Spring Seeding: March 15th to May 15th

a minimum 6 week period.

materials. Replace with new topsoil.

3.6 SEEDING COVER CROP & NATIVE GRASSES:

stapled according to manufacturer's recommendations

stapled according to manufacturer's recommendations.

throughout maintenance period until lawn is established.

B. Remove weeds by pulling or chemical treatment.

C. Perform maintenance throughout the maintenance period.

3. Water thoroughly whenever sod evidences excessive drying.

3.7 PROTECTION:

D. Sodded Areas:

E. Seeded Areas:

3.8 MAINTENANCE (SEED & SOD):

over and become matted.

1. Dry Seeding: Spreader or seeding machine.

to water more than 4 hours before application

Incorporation into the soil will not be required.

regrading is required. Recondition other existing lawn areas where indicated.

C. Cultivate bare and compacted areas thoroughly to provide a good, deep planting bed.

killers as required. Apply a seed-bed mulch, if required, to maintain moist condition.

1. Do not use wet seed or seed that is moldy or otherwise damaged in transit or storage.

F. Water newly planted areas and keep moist until new grass is established.

or other suitable equipment.

I. Seasonal Limitations:

Methods of Application:

seeding operations. Spread uniformly to form a continuous blanket over seeded areas. Spread by hand, blower,

completion of seeding operations. Soak and scatter uniformly to a depth of 3/16 inch thick and roll to a smooth

2. Hydroseeding: Mix seed, fertilizer and pulverized mulch with water and constantly agitate. Do not add seed

a. On slopes of 2 horizontal to 1 vertical or flatter, apply seed separately from fertilizer. Cover seed with

b. On slopes steeper than 2 horizontal to 1 vertical, seed and fertilizer may be applied in a single operation.

A. Recondition lawn areas damaged by construction operations, including storage of materials or equipment and

B. Provide fertilizer, sod, and soil amendments as specified for new lawns and as required to provide satisfactorily

reconditioned lawn. Provide new planting soil as required to fill low spots and meet new finish grades.

movement of vehicles. Also recondition lawn areas where settlement or washouts occur or where minor

cultivate soil, fertilize, and seed. Remove weeds before seeding or, if extensive, apply selective chemical weed

A. Sow seeds using seed drill (Truax-type) that accurately meters the seed types and mixes all seeds uniformly

during seeding. It should have, at the minimum, two seed boxes to separate fine seeds from large/fluffy seeds.

This seed drill should also be equipped with disc furrow openers and a no-till trash plow assembly, which will

compact the soil directly over the drill rows. The maximum row spacing for drill seeding should be 8 inches. Fine

seeds shall be dropped onto the ground from the fine seed box, while large/fluffy seed should be placed to obtain

B. Protect all native grass areas on slopes 4:1 and greater using straw mat erosion control blanket installed and

C. Protect all native grass areas within detention basin by using straw mat erosion control blanket, installed and

D. Seeding within established vegetated area: Contractor shall apply herbicide per manufacturers recommendations

Ensure all plants are not living. Apply native seeding within the timeframe specified by the manufacturer.

or an approved nonherbicidal application to remove grass & weeds prior to installation of Native Grasses.

Contractor shall mow existing grass & weeds after herbicide application per the manufacturers recommendation.

A. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades

A. Mow grass to a height of 3 inches as soon as there is enough top growth to cut with mower. Remove no more

1. Thoroughly water daily for a period of 15 days after placing and to a minimum of 1-inch per week thereafter.

2. Maintain sod in good live condition. Replace any sod not in good growing condition with fresh live sod.

1. Thoroughly water seeded areas daily to keep seeds moist until germination. After seeds have germinated

continue watering daily until the first mowing. Watering shall be in amounts enough to wet seeds and

than 30% of grass leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend

final planting depth of 1/4-1/2". The path of the drill seeding shall be done at a right angle to that of the drainage

soil to an average depth of 13 mm (1/2_inch) by raking or other approved methods.

H. Protect seeded areas against hot, dry weather or drying winds by applying peat mulch within 24 hours after

1. Remove and dispose of existing grass, vegetation, and turf. Do not turn over into soil being prepared for lawns. 2. Till surface soil to a depth of at least 6 inches. Apply required soil amendments and initial fertilizers and mix

thoroughly into top 4 inches of soil. Trim high areas and fill in depressions. Till soil to a homogenous mixture 3. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant

4. Remove waste material, including grass, vegetation, and turf, and legally dispose of it off the Owner's property.

SEEDING NEW LAWNS:

A. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.

B. Sow seed with a Brillion type seeding machine or where applicable and restricted by steep slopes or other areas not accessible to the seeding machine, broadcast or drop seed methods may be used. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other, and 3 directions in high maintenance areas, as directed by the Engineer. C. Sow not less than rate of 8 pounds per 1,000 square feet.

E. Protect seeded slopes exceeding 1:4 against erosion with erosion-control blankets installed and stapled according to manufacturer's recommendations.

D. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

F. Protect seeded areas with slopes less than 1:4 against erosion by spreading mulch as specified after completion of seeding operations. Spread uniformly to form a continuous blanket over seeded areas. Spread by hand, blower, or G. Seasonal Limitations:

1. Perform seeding only during the following seasons: a. Recommend seeding when temperatures ranging from 50 degrees Fahrenheit to 70 degrees Fahrenheit for a minimum 6 week period.

1. Dry Seeding: Spreader or seeding machine

J. Methods of Application:

2. Hydroseeding: Mix seed, fertilizer and pulverized mulch with water and constantly agitate. Do not add seed to water more than 4 hours before application: a. On slopes of 2 horizontal to 1 vertical or flatter, apply seed separately from fertilizer. Cover seed with soil to an average depth of 13 mm (1/2_inch) by raking or other approved methods.

b. On slopes steeper than 2 horizontal to 1 vertical, seed and fertilizer may be applied in a single operation.

movement of vehicles. Also recondition lawn areas where settlement or washouts occur or where minor regrading is

Incorporation into the soil will not be required. 3.5 RECONDITIONING LAWNS: A. Recondition lawn areas damaged by construction operations, including storage of materials or equipment and

2. Repair any portion of the seeded surface which becomes gullied or otherwise damaged. Reseed as required. F. Apply second fertilizer application after first mowing and when grass is dry. Use fertilizer which will provide not less than 1 lbs of actual nitrogen per 1,000 square feet of lawn area.

F. Protect seeded slopes exceeding 1:4 against erosion with erosion-control blankets installed and stapled according 3.9 MAINTENANCE (NATIVE GRASSES) A. Begin maintenance of native grass areas immediately after each area is planted and continue until established and G. Protect seeded areas with slopes less than 1:4 against erosion by spreading mulch as specified after completion of

> accepted, but for not less than the following periods: B. Native grass: 12 MONTHS after date of Substantial Completion

1. The Installer shall be responsible for the proper care until verification that all plant materials are present in the density and health to ensure self-maintenance.

2. Maintain and establish native grasses by mowing, weeding, trimming, replanting, and other operations as stated below. Re-grade erosion rills, replant bare or eroded areas, and re-mulch to produce a uniform

3.10 ACCEPTANCE OF LAWNS:

c. Recommend seeding when temperatures ranging from 50 degrees Fahrenheit to 70 degrees Fahrenheit for A. When lawn Work is Substantially Complete, continue maintenance per the Specifications.

B. Replant rejected work and continue specified maintenance until re-inspected by Landscape Architect and Owner and found to be acceptable.

C. Sodded lawns will be acceptable provided requirements, including maintenance, have been complied with and healthy, well-rooted, even-colored, viable lawn is established free of weeds, open joints, bare areas, and surface irregularities. Final Acceptance shall be determined by City Inspection and accepted by the City Council. D. Native Grass Stands

1. An acceptable native grass stand will contain no less than 5 healthy mature or developing plants per square foot with a population distribution per 10,000 square feet representative of ratios in the original blend. The result of maintenance shall be that weeds are being controlled through competition with the desired plants, and that mowed bio-mass is not accumulating in such a manner to be detrimental to existing plant materials as determined by the City Inspector & Landscape Architect. Final Acceptance shall be determined by City Inspection and accepted by the City Council.

. An acceptable native grass stand shall control erosion through root mass development. The occurrence of rills and gullies shall be unacceptable.

3.11 WARRANTY:

A. All turfgrass (seed, sod & native) shall be warranted one (1) year from the date of substantial completion.

D. Remove diseased or unsatisfactory lawn areas; do not bury into soil. Remove topsoil containing foreign materials resulting from Subcontractor's operations including oil drippings, stone, gravel, and other construction

A. Promptly remove soil and debris created by lawn Work from paved areas. Clean wheels of vehicles prior to leaving Site to avoid tracking soil onto surfacing of roads, walks, or other paved areas. E. Where substantial lawn remains (but is thin), mow, rake, aerate if compacted, fill low spots, remove humps and

END OF SECTION 329200

required. Recondition other existing lawn areas where indicated.

B. Provide fertilizer, sod, and soil amendments as specified for new lawns and as required to provide satisfactorily reconditioned lawn. Provide new planting soil as required to fill low spots and meet new finish grades.

C. Cultivate bare and compacted areas thoroughly to provide a good, deep planting bed. D. Remove diseased or unsatisfactory lawn areas; do not bury into soil. Remove topsoil containing foreign materials resulting from Subcontractor's operations including oil drippings, stone, gravel, and other construction materials.

. Where substantial lawn remains (but is thin), mow, rake, aerate if compacted, fill low spots, remove humps and cultivate soil, fertilize, and seed at a rate of 0.5 lbs per 1,000 SF. Remove weeds before seeding or, if extensive, apply selective chemical weed killers as required. Apply a seed-bed mulch, if required, to maintain moist condition.

F. Water newly planted areas and keep moist until new grass is established.

Replace with new topsoil

A. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period until lawn is established.

MAINTENANCE A. Mow established grass to a shorter height (0.5 inches) prior to spring growth to remove dead leaf blades and debris. B. Mow grass to height of 0.5 to 1.5 inches as soon as there is enough top growth to cut with mower. Remove no more

C. Remove weeds by pulling or chemical treatment. Preemergent herbicide shall not be applied to establishing stands. D. Perform maintenance throughout the 90 day maintenance period

Thoroughly water seeded areas daily to keep seeds moist until germination. After seeds have germinated,

than 30% of grass leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over

continue watering daily until the first mowing. Watering shall be in amounts enough to wet seeds and surrounding soil, but not cause erosion or disposition of seeds. 2. Repair any portion of the seeded surface which becomes gullied or otherwise damaged. Reseed as required.

E. Apply second fertilizer application after first mowing and when grass is dry. Use fertilizer which will provide not less n 1 lbs of actual nitrogen per 1,000 square feet of lawn area

3.10 ACCEPTANCE OF LAWNS: A. When lawn Work is Substantially Complete, including maintenance, Landscape Architect and Owner will, upon

request, make an inspection to determine acceptability: 1. Lawn Work may be inspected for acceptance in parts agreeable to Owner, provided Work offered for inspection is complete, including maintenance

2. An Acceptable stand of grass shall be considered when there is a minimum of 95% ground coverage with no bare spots greater than 12" Square.

B. Replant rejected work and continue specified maintenance until re-inspected by Landscape Architect and Owner and 3.11 CLEANUP:

A. Promptly remove soil and debris created by lawn Work from paved areas. Clean wheels of vehicles prior to leaving

Site to avoid tracking soil onto surfacing of roads, walks, or other paved areas.

END OF SECTION 329200

10/17/23 Sidewalk Revis Driveway Revis 10/5/23 City Comment 8/18/23 Initial Summital). DATE REVISION DRAWN BY CHECKED E AFB

10/26/23

Client Comments

Sheet

LANDSCAPE NOTES

- 1. LOCATE UTILITIES PRIOR TO COMMENCING LANDSCAPE OPERATIONS. ALL TREES SHALL BE FIELD POSITIONED AS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS OR OBSTRUCTIONS.
- 2. CONTRACTOR SHALL STAKE ALL PLANTING AREAS IN THE FIELD PRIOR TO PLANTING FOR APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- 3. QUANTITIES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR ALL QUANTITIES FOR THEIR BID. ANY DISCREPANCIES WITH THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE PLAN QUANTITIES SHALL SUPERCEDE SCHEDULED QUANTITIES.
- 4. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY AND SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 THE 'AMERICAN STANDARD FOR NURSERY STOCK'.
- 5. ALL PLANTING BEDS & NATIVE GRASS STANDS SHALL BE EDGED AS SHOWN IN PLAN.
- 6. PREPARE PLANTING BEDS AND INCORPORATE AMENDMENTS ACCORDING TO PLANS.
- 7. SHREDDED HARDWOOD MULCH, PER SPECIFICATIONS SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL PLANTING BEDS AND AROUND ALL TREES. SINGLE TREES AND SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND.
- 8. ALL TREES SHALL BE STAKED PER DETAIL.
- 9. ALL PLANT MATERIAL SHALL BE INSTALLED TO ALLOW A ONE FOOT (1') CLEARANCE BETWEEN PLANT AND ADJACENT PAVEMENT.
- 10. THE LANDSCAPE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE SITE IS FREE OF DEBRIS CAUSED BY ON-GOING CONSTRUCTION OPERATIONS. REMOVAL OF DEBRIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. LANDSCAPE WORK SHALL NOT BEGIN UNTIL THE LANDSCAPE ARCHITECT AND OWNER HAVE GIVEN WRITTEN APPROVAL FOR SUCH. THERE SHALL BE NO DELAYS DUE TO LACK OF COORDINATION FOR THIS ACTIVITY.
- 11. THE LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE GRADES AND CONDITION OF SITE PRIOR TO SODDING/SEEDING OPERATIONS.
- 12. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED FOR OTHER PLANTINGS OR HARDSCAPE SHALL BE SEEDED WITH TURF TYPE FESCUE.
- 13. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL SEEDED AREAS PER THE OWNER'S DIRECTION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF PROPOSED IRRIGATION SYSTEM AND COVERAGE AREAS FOR OWNER APPROVAL PRIOR TO INSTALLATION. IRRIGATION SYSTEM SHALL PROVIDE FOR THE CONTROLLER, WEATHER SENSOR, AND REQUIRED BACKFLOW DEVICES PER STATE AND LOCAL CODES.

SEEDING NOTES

INSTALLATION.

3 x ROOT BALL DIA.

SECTION

1. SEEDING SHALL OCCUR AS REQUIRED BY THE SPECIFICATIONS. SEEDING AT OTHER TIMES WILL REQUIRE A COVER CROP APPROVED BY THE ENGINEER AND CITY CODE. DORMANT SEEDING SHALL BE APPROVED BY THE ENGINEER.

- 2. GRADED AREAS SHALL PROVIDE A SMOOTH UNIFORM SLOPE, FREE FROM RILLS AND GULLEYS.
- 3. THE TOP FOUR INCHES OF SOIL SHALL BE FERTILE SOIL SUITABLE FOR SEED GROWTH.
- 4. PRIOR TO APPLICATION OF SEED, CONTRACTOR SHALL LOOSEN ALL SOILS TO A DEPTH OF ONE INCH. THE AREA SHALL BE RAKED FREE OF ALL ROCKS AND DEBRIS ACCORDING TO THE SPECIFICATION.
- 5. ALL AREAS TO BE SEEDED LOCATED ON SLOPES STEEPER THAN 4:1 (H:V) SHALL USE SPECIFIED TURF REINFORCEMENT MAT. ALL TRM SHOWN ON THE PLANS SHALL BE CONSIDERED CONCEPTUAL, CONTRACTOR TO VERIFY AND INSTALL ON ALL SLOPES EXCEEDING 4:1 AFTER FINAL GRADING IS ESTABLISHED.
- 6. ALL SEEDED ARES SHALL BE DRAGGED OR RAKED BEFORE BEING COVERED WITH THE SPECIFIED TRM. MAT SHALL BE PLACED PRIOR TO EXPOSURE TO ADVERSE WEATHER.
- 7. THE CONTRACTOR MUST PROVIDE THE OWNER'S REPRESENTATIVE DOCUMENTATION FROM THE SUPPLIER THAT EACH LOT OF SEED MEETS OR EXCEEDS THE SPECIFIED STANDARD.
- 8. ALL SEED MUST BE TESTED BY A REGISTERED SEED TECHNOLOGIST PER AOSA METHODS AND MEET ALL REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF AGRICULTURE.
- 9. AFTER COMPLETION OF WORK, CONTRACTOR SHALL WATER SEEDED AREAS DAILY. SATURATING THE MAT AND UNDERLYING SEED BED. CONTRACTOR SHALL CONTINUE WATERING UNTIL PLANT ESTABLISHMENT HAS OCCURRED OR BY NOTIFICATION FROM LANDSCAPE ARCHITECT. NOT WATERING DUE TO RAIN EVENT SHALL BE DOCUMENTED AND APPROVED BY THE GENERAL CONTRACTOR. WATERING LOGS SHALL BE SUPPLIED TO THE OWNER OR ENGINEER.
- 10. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL SEEDED AREAS PER THE OWNER'S DIRECTION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF PROPOSED IRRIGATION SYSTEM & COVERAGE AREAS FOR OWNER APPROVAL PRIOR TO INSTALLATION. IRRIGATION SYSTEM SHALL PROVIDE FOR THE CONTROLLER, WEATHER SENSOR, AND REQUIRED BACKFLOW DEVICES PER STATE AND LOCAL

TREES THAT DO NOT MEET THE SIZE REQUIREMENT WILL BE REJECTED 2. TREES SHALL BE INSPECTED BY OWNERS REPRESENTATIVE PRIOR TO

PRUNE OUT ANY DEAD OR BROKEN BRANCHES AND REMOVE DEBRIS FROM SITE. SECURE TREE TO STAKES WITH STRAPS (RE: SPECS). STRAPS SHALL BE LOOSE ENOUGH TO ALLOW SOME MOVEMENT OF THE TRUNK WITH THE WIND

> SET TREE WITH TOP OF ROOT BALL FLUSH WITH GRADE. TRUNK FLARE MUST BE VISIBLE AT THE TOP OF ROOT BALL. REMOVE EXCESS SOIL TO TOP OF LATERAL ROOTS.

MIN. 6' LONG STEEL STAKES SECURED INTO UNDISTURBED SOIL. PLACE NORTH AND SOUTH OF TREE.

- 3" MULCH PER SPECIFICATIONS. DO NOT PLACE ON TRUNK OR TRUNK FLARE. BERM AT OUTER EDGES OF RING TO CREATE A SAUCER FORM. REMOVE TWINE AND CAGE FROM ROOT BALL AND TRUNK. PEEL AND REMOVE

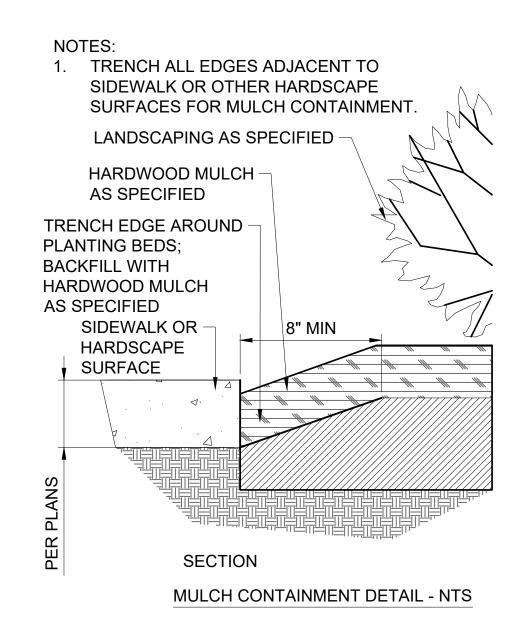
PLANTING HOLE SHALL BE AT LEAST 3 TIMES WIDER THAN THE SPREAD OF ITS ROOTS, BUT NO DEEPER. PLACE ROOT BALL ON UNDISTURBED SOIL WITH ROOT FLARE EVEN WITH OR 1" ABOVE GRADE. SCARIFY SIDES

BURLAP FROM TO 1/3 OF THE ROOT BALL.

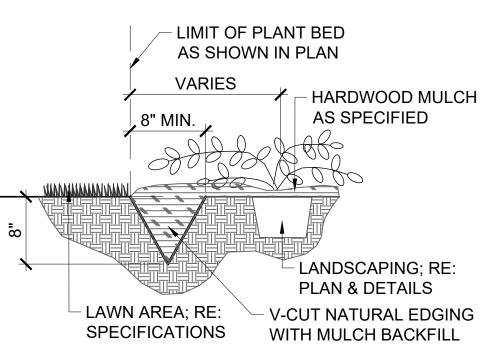
AMEND SOIL ACCORDING TO SPECIFICATIONS.

DECIDUOUS TREE PLANTING DETAIL - NTS

AND BOTTOM OF PIT.



LOCATIONS PRIOR TO EXCAVATING FOR FINAL APPROVAL BY OWNER OR LANDSCAPE ARCHITECT. LIMIT OF PLANT BED AS SHOWN IN PLAN **VARIES** - HARDWOOD MULCH



1. CONTRACTOR SHALL LOCATE AND MARK ALL PLANTBED

V-CUT NATURAL EDGE DETAIL - NTS

PLACE SHRUB SO CROWN IS AT SOIL LEVEL PROVIDE MULCH -**CONTAINMENT EDGE** 4' MIN. ADJACENT TO HARDSCAPE; RE: DETAIL CURB, WHERE APPLICABLE: -MAINTAIN A MINIMUM OF 4' TO CENTER OF ROOTBALL FROM BACK OF CURB **CONTAINER** DIA. 1. REFER TO SPECIFICATIONS FOR TOPSOIL BACKFILL MIX.

Transformer

3. INSTALLATION TO BE IN ACCORDANCE WITH PLANTING SPECIFICATIONS 4. WHERE ADJACENT TO CURB, MAINTAIN THE MINIMUM OFFSET SHOWN. FOR SHRUBS LARGER THAN 4' MATURE DIAMETER, PROVIDE A GREATER OFFSET EQUAL TO 1/2 OF THE MATURE DIAMETER MINIMUM.

SHRUB PLANTING DETAIL - NTS

NEW SHEET ADDED

Free Standing Clustered Boxes Free Standing Against Wall

Small Box UTILITY BOXES SHALL BE CLUSTERED AS MUCH AS POSSIBLE

TYPICAL UTILITY BOX SCREENING DETAILS - NTS

PRUNE OUT ANY DEAD OR BROKEN BRANCHES. CUT ANY GIRDLING ROOTS - INSTALL 3" OF HARDWOOD OFF CLOSE TO THE CROWN. PRY LONG MULCH THROUGHOUT PLANTING ROOTS OUT TO DIRECT INTO NEW SOIL BED. LEAVE A 6" BARE CIRCLE AT BASE OF PLANT FILL PLANTING HOLE WITH AMENDED SOIL MIX ACCORDING TO SPECIFICATIONS. CONSTRUCT RING AROUND PLANTED SHRUB TO FORM SCARIFY PIT BOTTOM (MIN. 6") SECTION 2. CONTRACTOR TO WATER THOROUGHLY AFTER PLANTING

C6.7

8/18/23

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- AT LEAST SENSITY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AS GIVEN BY THE ELECTRIC, GAS, TELEPHOLE, WATER, SCARR, AND CASE TELEVISION COMPANIES UTILITIES OR ENTITES. REVIEW WITH HOWERS REPRESENTATIVE SITE MERCHANICAL STREET ELECTRICA, AND LOCATION CONTRACTOR STREET, SITE PROGRAM ON ALL OTHER DEARWAYS SPREAMING TO UNCERGROUND UTILITY LOCATIONS, RECORD SET OF INCOMPATION THE SAME AS IN MOSSESSION OF OWNERS PRESENTATIVE, ALSO REVIEW OWNERS THAN SETS OF ALL OT THESE DEMANDES THOSSESSION OF THE CONTRACTION OF HOMER, MARK ALL DOLUTLITIES ON THE TO COMPRECION, COCKRIGATION OF WATER THAN THE OWNER SETGES AND DURING CONSTRUCTION. RESAR NOW DAMAGE TO ANY SYSTEM THAT IS CAUSED BY
- ALL PLANTINGS SPECIFIED FOR THE ALDL FOOD STORE #45 FROJECT PLANTING TABLES SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK AVEI 260.1 2014 AND AVSI STANDARDS FOR PLANTING 2012.
- 3. ALL DEVIATIONS FROM THE APPROVED ALDI FOOD STORE #48 PROJECT PLANS SHALL BE NOTED ON THE RECORD DRAWLINGS. BY THE CONTRACTO AND MAY BE EXECUTED ONLY WITH FRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
- ALL PLANTS MUST BE EID AND SELECTED PER THE SPECIES SPECIFIED ON THE PLANS. ANY SPECIES SUBSTITUTIONS MUST BE AFFROMED IN WRITTING BY LANGUAGE ARCHITECT. THE SIZES OF PLANT HATBERAL LISTED HEREIN IS A MINORAM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUICKING PERUCKES THE COMENT THE PLANT SPALL BE REPLACED.
- 5. PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIERS AND BARRICADES.
- 6. ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND AREAS NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOWN CLEEN THE PRINCIPAN DESIGNED SHEETED WITH SPECIFIED LIAIN GASS. LIAIDSCAPE CONTRACTOR SHALL INCLUDE COS FER SQUARE VARD FOR ADMITICALLY, SEED DESIGNATIONS AS NAY BE POSSER, VERQUIEDED TO RESTRUCISH ADMICINITURE GASS AREAS WHICH MAY BECOME DAMAGED DURING THE CONSTRUCTION PROCESS OF TO FERRIR MAYAGE DOING BY OTHERS.
- CONTRACTOR IS RESPONSIBLE FOR FLANDSHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL.
- QUANTITIES ON PLANT MATERIALS LIST ARE FOR CONVENIENCE OF BIDDING ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS AND COVERAGE OF ALL AREAS DELINEATED, THE PLANS ARE TO SUPERSEDE THE PLANT LIST IN ALL CASES.
- 9. CONTRACTOR IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING, ALL AREAS, QUANTITIES MATERIALS. SHOULD BE FIELD VERIFIED WITH SITE
- WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE FLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWINGS (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION FOR COORDINATION AND RESOLUTION.
- ALL DISEASED, NOXIOUS OR INAPPROPRIATE MATERIALS SHALL BE REMOVED FROM THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.
- 12. GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS.
- 13. ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
- FINCSH GRADES FOR SHRUB AND GROUND COVER AREAS SHALL BE HELD IT SELOW TOP OF ADJACENT PAVEMENTS AND CURBS, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- 15. ALL PEREVIAL, ANNUAL AND GROUND COVER REAS TO RECEIVE A BLEND OF ORGANIC SOIL AMBIOMENTS PRIOR TO PLANTING. THE THE FOLLOWING MATERIALS MID EXISTING TOPOIL TO A DEPTH OF APPROMISHTEY S. A DEPTH OF 12 TO RECEIVE APPROXITIONS AND QUANTITIES MAY ROQUEST ADJUSTMENT DEPENDENG ON THE CONTITION OF DISTRICTS SOIL. REFER TO 19-12 FOR FARTHES INFORMATION. PER EVERY IND. SQUARE FEET ADD: ONE - 2 CUBIC FOOT BALE OF FEAT MOSS, 2 POUNDS OF 5-10-5 GARDEN FERTILIZER, 1/4 CUBIC YARD OF COMPOSTED MANURE OR OTHER COMPOSTED, ORGANIC MATERIAL.
- ALL SHRUBS TO BE POCKET PLAYTED WITH A 50/50 MIX OF COMPOSTED, ORGANIC MATERIAL AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXCESSIVE GRAVEL, CLAY AND STONES. REFER TO LEP 1.2 FOR FURTHER INFORMATION.
- PLANT ALL TREES SLIGHTLY HIGHER THAN FIVESHED GRADE AT ROOT FLARE. BACK FLLI HOLE WITH 2/3 DISSTING TOPSOIL AND ORGANIC SC AMERICANETS SPECIFIED IN NOTE 15. AVOID ANY AIR PROJETS. DISCARD ANY GRAVE, CLAY OR STOKES. REFER TO LIFFLE FOR FURTHER INFORMATION.
- ALL TREES TO BE INSTALLED, STAKED AND GUYED ACCORDING TO DETAILS. REFER TO ANSI STANDARDS FOR PLAYING 2012 AND DETAILS ON LSP1.2
 FOR FURTHER INFORMATION.
- 19. PROVIDE A 4'-0" 5'-0" DIAMETER MULCH RING AT THE ROOT BALL FLARE OF ALL LAWN TREES.
- 20. ALL PLANTINGS TO BE WATERED AT THE TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.
- 21. WHERE SPECIFIED, ALL PLANT SEDS, RYTS AND TREE RINGS ARE TO RECEIVE A MILIMUM OF 2"-3" DRESSING OF S-RECOED HARDWOODM OAK BASK MILICH SHAWNOS FREE OF GROWTH, WEDS FOREIGN MATTER DETRIBUTING. TO PLANT LIFE OR GERMINATION IN-HEITING INSECIENTS, LANDSCAPE CONTRACTION OF DROWIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH DISTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO LIFE 12 FOR FIXTHER INFORMATION.
- FER ALDI SPECIFICATIONS, TWO LAYERS OF WEED BARRIER MADE FROM FIREIRGLASS AND ULTRAFIDLET LIGHT RESISTANT MATERIAL SHALL BE PLACED
 IN ALL PLANTING SEDS UNDERWEATH SHREDDED BARCK MULCH. MAKE PROPER OPENINGS FOR ALL PLANT MATERIAL TO ALLOW FOR GROWTH AND
- LAWN INSTALLATION: PER ALDI SPECIFICATIONS, CONTRACTOR TO PLANCISH AND PREPARE TOPSOIL (4" MIN) AND SEED BED (REMOVE ALL STONES 1"
 OR LARGER), APPLY STARTER FERTILIZER AND SEED UNIFORMLY, PER ALDI SPECICATION REQUIREMENTS: OR LANGEN, APAY STATES RETELLER AND SEED UNIFORMY, HER AND SPECIATION REQUIREMENTS.

 METHOD OF INSTALLATION BE SEEDED BY ENDOCRES SERVENS METHOD, ALL SEEDING OPERATIONS SHALL BE PERFORMED IN ELOH A MINNER THAT THE SEED IS APPLIED IN THE SPECIATIO QUANTITIES EVENLY DISTRIBUTED THROUGHOUT THE AREA SOWN AND UNIFORMY TERTURED LIAUN. THE SEED IS APPLIED IN THE SPECIATION FRATE THAT THE PLAY OF THE SECOND OF THE SEED IN THE SECOND OF THE SECOND O

25. DELUXE 50 GRASS SEED MIX REINDER'S (800) 785-3301

- 20% KENTUCKY BLUE GRASS
- 15% NEWPORT KENTUCKY BLUE GRASS 15% SR 2100 Kentucky Bluegrass
- 25% Creeping Red Fescue
- 15% Replicator Perennial Ryegrass
- APPLY AT A RATE OF 200 POUNDS PER ACRE, REFER TO SUPPLIERS SPECIFICATIONS & INSTALLATION OUT SHEETS FOR PURITHER FORMATION.
- 26. DURING THE INITIAL "30 DAY MAINTENANCE PERIOD" THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE AND ON-GOING PLEASANT VISU ENVIRONMENT WHEREAS ANY PLANT WHICH IS NOT RESPONDING TO TRANSPLANTING OR THRIVING SHALL IMMEDIATELY BE REPLACED. NEW LAWNS SHALL BE WATERED AND REPAIRED AND WEEDS MUST CONSTANTLY BE REMOVED, NO EXCEPTIONS WILL BE GRANTED. MAINTENANCE NOTE:

MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN REQUIRED LANDSCAPING IN ACCORDANCE WITH THE MAINTENANCE PLAN. THE MAINTENANCE MUST INCLUDE, AT A MINIMUM, METHODS FOR PROVIDING THE FOLLOWING:

- NECESSARY IRRIGATION (If REQUIRED)
- INTEGRATED PEST MANAGEMENT,
- PROPER FERTILIZATION
- TREE CARE AND PRUNING, SHRUB TIP CLIPPING AND SHAPING AS REQUIRED
- REPLACEMENT OF LOST VEGETATION, AND ALL DISEASED, DAMAGED, OR DEAD MATERIAL WILL BE REPLACED BY THE END OF THE FOLLOWING
- PLANTING SEASON IN PERPETUITY.
- 27. ALL NEWLY PLANTED TREES AND SHRUBS ARE TO RECIEVE AN APPLICATION OF AN ANTI-TRANSPIRANT SPRAY THAT WILL EFFECTIVELY REDUCE THE WATTE LOSS OF TRANSPIRATION OF PAST MATERIAL AND REDUCE THE STRESS OF TRANSPLANTATION. IT IS RECOMBINED AS PART OF THE OWOODS MAINTERINGE THAT ANY RESOURCES PERFORMEN ON COMPRESOUS TREE AND PRIVILE GIVEN ASSOCIATION, PRICEIP AN APPLIATION. OF AN ANTI-DESICANT SPRAY TO REDUCE THE LOSS OF MOISTURE DUE TO WINTER DESICCATION.
- 28. MAINTENNICE. THE OWNER SHALL TEND AND MAINTAIN ALL PLANT MATERIALS IN A HEALTHY GROWING CONDITION AS PER THE APPROVED PLAN. PRANTINGS SHALL REPLACED WHEN INCESSERY AND CEPT FICE FROM RETUSE & DEBRIS, ALL PLANTING MITERIAL WHICH IS DITING OR DAMAGED BEYOND RECOVERY SHALL BE SEPALED WITHIN SKY, (5) MONTHS OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES PREST.
- LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERLEY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.

SITE INFORMATION

USDA PLANT HARDINESS ZONE	5a (-20 to -15 Degrees F)	TOTAL IMPERVIOUS	85.619 SQ. FT. (1.97 Acres)
LOTZCNING	B-1 - General Business District	TOTAL GREENSPACE	35,103 SQ. FT. (0.81 Acres)
LOT AREA	120,722 SQ. FT. (2,77 Acres)	SITE LANDSCAPE PERCENTAGE	29.1%
SITE BUILDING AREA	20,664 SQ. FT.	TOTAL PARKING STALLS	95 STALLS

PESION COMPLIANCE: THIS LANDSCAPE PLAN IS ACCURATE AND IN COMPLIANCE WITH THE CITY OF WHITEWATER LANDSCAPING GUIDELINES
RECOMMENDED LOCATIONS AND ANOUNT OF NEW LANDSCAPING
1. STREET PROVINGES, ONE DECEDOUS TIESE MUST BE PLANTED FOR EACH 15 PEET ALONG EACH SIDE OF ASTREET RIGHT-OF-WAY. STREET TREES SHOULD BE PLANTED MCDWAY BETWEEN THE STREET
JOES LINEAL PEET OF STREET FROMTAGE
10 STREET TREES SPOUNDED
10 STREET TREES SPOUNDED

2. FAVED AREAS, ONE LARGE DECIDIOUS TREE AND 69 PEINTS OF ADDITIONAL LANDSCAPING SHOULD BE PLANTED FOR EACH 1,500 SQUARE FRET OF PAVED AREA. PLANTS SHOULD BE DISTALLED IN LANDSCAPED ISLANDS ON PENINSULAS PUST BE PROVIDED AT THE END OF EVERY PARKING ROW, AND INTERIOR ISLANDS ON PENINSULAS PUST BE PROVIDED AT THE END OF EVERY PARKING ROW, AND 64,955 SQUARE FRET OF PAVED AREA.

41 TESTS MOD 284 ALADSCAPE POINTS ARE REQUIRED PROVIDED

21 TESTS MID 2641 LANDSCAPE POINTS ARE REQUIRED PROVIDED.

3. BUILDING FOUNDATIONS, 160 POINTS OF LANDSCAPING SHOULD BE PLANTED FOR EACH 100 LINEA, FEET OF EXTERIOR BUILDING WALL THAT IS VISIBLE FROM PUBLIC RIGHTS-OF-WAY AND ADDIDING SITES. PLANTS REQUIRED BY THIS SECTION SHOULD BE INSTALLED WITHIN 20 FEET OF THE BUILDING FOUNDATION.
655 LINEA, FEET OF FOUNDATION.

399 LANDSCAPE POINTS ARE REQUIRED 366 LANDSCAPE POINTS ARE REQUIRED PROVIDED

19.51.100 - LANDSCAPED ISLANDS FOR PARKING BAYS. LANDSCAPED ISLANDS SHALL BE REQUIRED AT THE ENDS OF PARKING BAYS TO CLEARLY DEFINE LANE AND TURNING PATTERNS,

18.57.189 - OUTDOOR LIGHTING STANDARDS.
DANDING STANDARD F.USE OF SHIELDED LIGHT FIXTURES. ALL OUTDOOR LIGHTING FIXTURES SHALL BE SHIELDED AS DEFINED IN SECTION 19.09.623. HLOCATION, NO EXTERIOR LIGHT FIXTURE SHALL BE LOCATED WITHIN ANY REQUIRED UNDSCAPE BUFFERYARD OR WITHIN THREE FEET OF ANY PROPERTY LINE,

CONTRACTOR NOTE: THE LANGSCAPE CONTRACTOR/GENERAL CONTRACTOR ARE RESPONSIBLE TO INSTALL THE LANGSCAPE AS FER THE APPROVED FLAN. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE THIS APPROVED FLAN, THE LANGSCAPE CONTRACTOR, GENERAL CONTRACTOR ARE RESPONSIBLE FOR LEPIATIVE THE FLANS ACCORDINGLY AND SUSPRITTING THOSE REVISED PLANS FOR APPROVAL AND SISKS OFF WITH THE CITY OF MATERIATED. THE LANGSCAPE CONTRACTOR ARE ALSO RESPONSIBLE FOR LEPIATIVE THAT ANY PLANT MATERIAL SUSPRITTING ON MICHIGARIONS THAT ARE MADE TO THE APPROVED INDUSPATE RESPONSIBLE FOR MATERIAL PLANT OF THE FEQURED SUPPORTING LANGSCAPE REQUIREMENT CALCULATIONS. LIPON COMPLETION OF THE CONSTRUCTION PROJECT AND FILE THAT AFFICIALLY WITH THE CITY OF WHITEMATER.

EXISTING CONDITIONS GENERAL NOTES

- 1. INFORMATION FERTANCING TO EXISTING CONCITIONS GIVEN ON THESE LANDSCAPE DRAWINGS REPRESENTS TO THE BEST OF OLD KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS, INSITE LANDSCAPE DESIGN, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY, CONTRACTOR TO HEID VERSITY EXISTING CONDITIONS IMPERATIVE TO THEIR NEW WORK, REPORT AND INSCREPANCES EXTENDED FROM THE DEPARTOR SHOP FIELD TO REPORT NEW MORK, SEPORT AND INSCREPANCES SHOWED FROM THE DEPARTOR OF THE DISCONDED FISH TO THE PROMIT OF DISCONDECES BY THE LANDSCAPE AND HETERT IS SURJECT TO REMOVE, AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.

 THE LOCATIONS OF EXISTING UILLITY INSTALLATIONS AS SHOWN ON THE SALAN ARE APPROXIMATE. THERE MAY BE UNDERGROUND UTILITIES IN THE PROMIT OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERFING THE BUSTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.

 VERLY ALL BUSTING CONDITIONS, DIPMENTOR, AND ALTOPRET OF WILL SHOW AND INFORMATION FOR ACCESSIVE AND LOCATIONS OF ALL DIVERSE REPLACED. AND LOCATION OF ALL OFFERS AND LOCATIONS OF ALL DIVERSE AND LOCATIONS OF ALL DIVERS
- STRUCTURES AND LOCATIONS OF ALL OVERHEAD WIRES.
- VENTY LOCATION OF ALL DISTING EASEMENTS.

 INSTEL ANGEOME DESIGN, INC., ASSUMES NO PERFORMENTLY FOR DAMAGES, LIMBLITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSETT. OF INSTEL MANDED FEEDING, INC.

Proposed Plant Material Table

Broadleaf Deciduous Tr	

Nouvieu D	ecidodos nee							
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Points	Mature Size	Comment
3	Acgr	哥	Acer griseum	Paperbark maple	2"-Cal - 8&8	150	25" x 20"	1
3	BepIW	0	Betula platyphylla japonica "Whitespire"	Whitespire Japanese White Birch	1 1/2° Cal - 8&8	150	35' x 15'	1
3	GibiPS	0	Ginko biloba "Princeton Sentry"	Princeton Sentry Maidenhair Tree	2"-Cal - B&B	150	40" x 25"	1,6
2	MaAk	0	Malus "Adirondack"	Adirondack Flowering Crab	2"-Cal - 8&8	60	20' x 10'	1
3	Osvi	0	Ostrrya Virginiana	American Hophombeam (Ironwood)	2"-Cal - 8&8	150	35' x 25'	1
4	PycaC	₩	Pyrus calleryana 'Chanticleer'	Chanticleer Pear	2"-Cal - B&B	60	30° x 15°	1
3	TicoGS	0	Tilia cordata 'Green Spire'	Green Spire Linden	2"-Cal - 8&8	150	50" x 30"	1
	Extg	0	Existing to Remain	Existing to Remain	Existing		Existing	2
Conifer Ever	green Tree							
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Points	Mature Size	Comment
3	Piom3	3	Picea omorika 'Eruns'	Bruns Serbian Spruce	4-5-888	40	25' x 9'	3
3	PEIV	章	Pinus flexis Vanderwolf's Pyramid'	Vanderwall's Pyramid Limber Pine	4-5-888	40	25' x 13'	3
Broadleaf De	eciduous Shrub					-		
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Points	Mature Size	Comment
18	SpbeT	(9)	Spiraea betulifolia Tor'	Tor Birchleaf Spirea	18" - Cont	20	3.5' x 3.5'	4
23	SpjaT	0	Spiraea japonica Tracy	Double Play Big Bang Spirea	18" - Cont	20	2.5' x 2.5'	4
Conifer Even	areen Shrub				-		-	
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Points	Mature Size	Comment
12	JupisG	0	Juniperus x pfizeriana 'MonSan'	Sea of Gold Juniper	18-24-888	20	3' × 4'	4
18	ThocAB	*	Thuja occidentalis 'Art Boe'	North Pole Arborvitae	4'-5'-8&8	20	16' x 4.5'	3
erennial Gr	ass							
Quantity	Code Name	Symbol	Scientific Name	Common Name	Plantina Size	Points	Mature Size	Comment
3	PaviN	Ö	Panicum virgatum Northwind	Northwind Switch Grass	1-Gal - Cont	2	2.5' x 5'	5
27	SpheT	*	Sporobolus heterolepis Tara'	Tara Prairie Dropseed	1-Gal - Cont	2	2.5 x 2.5	5
erennial						-		
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Points	Mature Size	Comment
acc.my	0000110110	41		00	. 101.11. 9 340	- Se 112	11.0.0.0.00	

HeSW Hemerocalis x Swiring Water Swiring Water Daylily

- Straight central leader, full & even crown. Prune only after planting. Prune existing free, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
- Evenly shaped upright tree with full branching to the ground. Full, well rooted plant, evenly shaped.
- Full, well rooted plant.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. UNDERGROUND FACILITIES MUNICARITY AND LOCAL UTUATY COMPANIS.

THE ACCURACY OF WHICH CAN NOTE BE GUARANTED OR CERTIFIED TO. THE LOCATIONS CONTROLL THE WAY SEE OF DESTING UTUATI WASHLALIADONS SHOWN ON THE SURVEY ARE APPROXIMATE. THERE MAY SE WWW. Diagratholine com OTHER UNDERSEQUINO UTUATY THE ALLALIADONS (\$300-342-5511)

WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



4 1/2" pot

1 1.5' x 1.5' 5

Symbol	Label	Cty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	A	8	CPY250-A-DM-F -C-UL-CS	Cree CPV250 Canopy / Soffit Luminaire w- Flat Lens, 122W, 5700K Platinum Silver Factory Finish, Provide Canopy Mounting Plate	72 type XTE AWT LEDs on white square PCB, 5700K color temperature.	CPY250-A-xx- F-A-UL-xx- 57K_RESTL- 2013-0002.jes	Absolute	1.00	43.4
	В	6	XSPW-A-0-3-M -C-UL-CS	Cree XSPW Series Wallpack Luminaire, Type III Medium, 5700K, C Input Power Designator, Platinum Silver factory Finish, U.L. listed for Wet Locations	4 type MDA LEDs	XSPWAx3FC- U_RESTL-2014- -0018.IES	Absolute	1.00	42.7
	С	5	P5642-3030K9	P5642-3030K9 6* clameter up/down wall mount LED cylinder with LEDs moved closer to opening.	40-Nichia LEDs 3000	K P5642- 3030K_160002 0.IES	Absolute	1.00	58
0.0	D	2	OSQ A NM 4ME K 57K-UL-CS CL-SSP-4011-25 -D6-PS-ABL	CONFIGURED FROM Cree OSQ Series Area Luminaire, Type IV Medium, K Input Power Designator, 5700K	CONFIGURED FROM Eight type MDA 5700K LEDs	OSQ A xx 4ME K w- OSQ 57K_CONFIGU RED.les	Absolute	1,00	520
ĉ.	E	2	OSQ A NM 3ME T 57K-UL-CS-BLSLF CL-SSP-4011-25 -D6-PS-ABL	CONFIGURED FROM Cree OSQ Series Area Luminaire, Type III Medium w/ Backlight Sheild, T Input Power Designator, 5700K	CONFIGURED FROM Eight type MDA 5700K LEDs	OSQ A xx 3ME T w- OSQ-BLSLF 57K_CONFIGU RED.ies	Absolute	1.00	166
-	F	1	OSQ A NM 4ME T 57K-UL-CS CL-SSP-4011-25 -D6-PS-ABL	CONFIGURED FROM Cree OSQ Series Area Luminaire, Type IV Medium, T Input Power Designator, 5700K	CONFIGURED FROM Eight type MDA 5700K LEDs	OSQ A xx 3ME U w- OSQ 57K_CONFIGU RED.ies	Absolute	1.00	332
	G	2	OSQ A NM 2ME K 57K-UL-CS-BLSLF CL-SSP-4011-25 -D6-PS-ABL	CONFIGURED FROM Cree OSQ Series Area Luminaire, Type II Medium, K Input Power Designator, 5700K	CONFIGURED FROM Eight type MDA 5700K LEDs	OSQ A xx 2ME K w- OSQ 57K_CONFIGU RED les	Absolute	1.00	130

Symbol	Avg	Max	Min	Max/Min	Avg/Min	UG	CV	Avg/Max
_	1,8 fc	19.8 fc	0.0 fc	N/A	N/A	-1.0	2.2	0.0:1
							The same of the sa	

STATISTICS

- FRUIRE D' (2) IS A NEW POLE LOCATION W/ NEW POLE MOUNTED HITURES (QUAD HEAD AND TENONS), HITURES ARE TO BE INSTALLED ON A NEW 2'4" TALL REINFORCED POURED CONCRETE FOLNDATION AND NEW 22 47 SQUARE SLYTE POLE.
- RIGITAE TE (2), IS A NEW POLE LOCATION W/ NEW POLE MOUNTED FRIGHES (SINGLE HEAD AND TENONS W/ BACKLIGHT/HOUSE SIDE SHELLD). FRIGHES ARE TO SE INSTALLED ON A NEW 27-6" TALL RENFORCED POLIFED CONCRETE FOLINDATION AND NEW 27-0" SQUARE SEVER POLE.
- RIGIDE T: [1] IS A NEW POLE LOCATION WINEW FOLE MOUNTED PROGRES (WIN HEAD, TENON), RIGIDES ARE TO BE INSTALLED ON A NEW 2-6" TALL REMFORCED POURED CONCRETE FOLMOWING NAMES ARE TO BE INSTALLED ON A NEW 22-6" SQUARE SLYCE POLE.
- HOUSE 'G' (2) IS A NEW POLE LOCATION W/ NEW POLE MOUNTED HITURES (SINGLE HEAD AND TENONS WE BACKLIGHT/HOUSE SIDE SHELLD). HITURES ARE TO BE INSTALLED ON A NEW 22-4" TALL REINFORCED POLISED CONCRETE FOLKBOATION AND NEW 22-4" SQUARE SLIVER POLE.
- ALL NEW CONCRETE (19HT POLE BASES ARE TO HAVE ALL EIFFOSED FORM MARKS REMOVED, GROUND FILEH AND THE SURFACE IS TO BE PROPERLY PREPARED TO RECEIVE A MASONRY SKIN COAT OF APPROPRIATE THICKNESS TO ACHEVE A DURABLE SURFACE AND LONG LASTING ASSISTED.
- ALL NEW PROPOSED AREA LIGHT POLES SHALL BE LOCATED 3-0" FROM BACK OF CURB TO THE EDGE OR FACE OF THE REINFORCED LIGHT POLE BASE, UNLESS NOTED OTHERWISE
- 8. INSTALLATION CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR CONDUIT ROUTING OF LIGHT POLES AND SIGNAGE LIGHTING CONTROL AND WIRING
- 9. CONTRACTOR TO REFER TO REINFORCED LIGHT POLE BASE SECTION AND DETAIL FOR FURTHER INFORMATION.
- IQ. PROPOSED POLE MOUNTED RICTURES (HEADS AND TENONS). ARE TO HAVE A SLIVER FINISH W/ OPTIONAL PHOTOCELL CONTROL
- 11. ALL EXTENDS FIXTURES, BOTH BUILDING MOUNTED AND POLE FIXTURES SHALL BE DESIGNED AND INSTALLED SUCH THE THE LIGHT EMITTED FROM THE LIMINABLE AT AN ANGLE OF 72 LI
- ALL BULDING MOUNTED LIGHT FIXTURES ARE TO BE COORDINATED WITH THE ARCHTECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATION FOR PURPOSES OF CALCULATING THE STE POLE LIGHTING AND PHOTOMETRIC DUTPUT LUMINARE WERE PLACED AT 22-\$T ABOVE PRISHED PLOOR ELEVATION AND ALL BUILDING MOUNTED.
 FLOOD LIGHTS COORDINATED WITH THE ARCHITECTURAL ELEVATIONS. AND PLACED AT HEIGHTS SPECIFIED ON THE BUILDING ELEVATIONS.

THIS LIGHTING PLAN REPRESENTS LILLWINATION LEVELS ARE CALCULATED VALUES INCLIDE DRECT AND INTER-REFECTED COMPONENT AND ELLWINATION LEVELS. CALCULATED FROM LABORAT
DATA TAKEN UNDER CONTROLLED CONCRIDING IN ACCORDANCE With the ELLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS ACTUAL PERFORMANCE OF ANY MANUFACTURER. LUMPARES MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE. TOLERANCE IN LAMPSLEDS AND OTHER MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE. TOLERANCE IN LAMPSLEDS AND OTHER VARIABLE FIELD CONCIDENS. CALCULATIONS DO NOT INCLUDE DESTRUCTIONS SUCH AS BUILDINGS CLARS, LANGSCAPING, OR ANY OTHER ARCHTECTURAL ELEMENTS LINLES NOTES.

PHOTOMETRIC PLAN GENERAL NOTES

- BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMBNARE LOCATIONS SHOWN REPRESENT RECOMMENDED POLE PLACEMENTS AND LUMBNARE ORIENTATION. THE RENDIERS AND/OR ASCRITECT MUST DETERMINE PROJECTIONS.

 THE DEPICTED ILLUMINATION ASSULTS ARE BASED LIPON LUMBNATION MEASUREMENTS AS CALCULATED BY AN INDEPENDENT LABORATORY. LUMBNARE OMPACTERISTICAL DATA WAS MEASURED UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH APPROVED LUMBNATION PROMESERING SOCIETY METHODS. ACTUAL OWNSTRE PERFORMANCE OF ANY MANUFACTURESS LUMPAURES MAY VARY FROM LIBORATORY TEST RESULTS DUE TO VARIATIONS IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIRST LOCADITIONS.
- IF EXISTING LUMINATES ARE INCLUDED IN THIS REPORT. THEIR ILLUMINATION CHARACTERISTICS ARE BASED UPON A COMBINATION OF CLISTOMER'S PROVIDED
- DESTRICTIONS A DURING TESTIMATION.

 4. ALL DISTRICTIONS OF CONTROL CON
- 1. INFORMATION FERTAINING TO EXISTING CONDITIONS GIVEN ON THESE ARCHITECTURAL DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS, INSTITE LAUGGAZE DESIGN, INC. MASES NO WARRANT AS TO THEIR ACCURACY, CONTRACTION TO FIELD VERBY EXISTING CONDITIONS INFERATIVE TO THEIR NEW WORK, REPORT MAY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE LAUGGAZE ARCHITECT FOR EXPLICIT, MAY WORK PERFORMED PRICE TO RESCULTION OF DISCREPANCIES AT THE LANDSCAPE ARCHITECT IS SUBJECT TO REMOVAL AND REPLACEMENT AT MY ADMICT LOST TO THE CONTROCT.

 2. VERBY LOCATION OF ALL EXISTING UNDERSOUND UTILITIES I.E. WATER, SEWER, ELECTRICAL, TELECOMMUNICATION AND ACCESS PANELS FOR ALL UTILITIES AND ALL ASSOCIATED EXCUSPRINT FOR ACCESSIBLITY OF THOSE FIELDS.

 3. VERBY ALL EXISTING CONDITIONS, DIMENSIONS, AND ALIGNMENT OF WALLS, BRING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECTS ATTENTION PRIOR TO FARROCATION LOCATIONS THAN ASSOCIATED AND ALL PROSTRUCTION REFORM.
- / CONSTRUCTION BEGINS.

& Master Planning Design Sevices

11525 W. North Avenue, Suite 1B Wauwatosa, WI 53226 Tel (414) 476-1204 www.insitedesigninc.com mdavis@insitedesigninc.com

Project:

ALDI FOOD STORE #XX

West Main Street (Hwy 12) Whitewater, WI 53190

Issuance and Revisions:

Date

04/19/23 Client Review 04/20/23 Submittal 07/27/23

Number Description

on Site Changes

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PROPOSED LANDSCAPE AND PHOTOMETRIC PLANS GENERAL NOTES, PLANT MATERIAL TABLE AND LAIGHT FIXTURE TABLE

Date of Drawing: 07/27/23 Scale: 1" = 20'-0" Drawn By: MCD Job Number: L23-031





Landscape Consulting & Master Planning Design Sevices

11525 W. North Avenue, Suite 1B Wattwatess, WI 53226 Tel (414) 476-1204 www.insitedesigninc.com mdavis@insitedesigninc.com

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ALDI FOOD STORE #XX

West Main Street (Hwy 12) Whitewater, WI 53190

Issuance and Revisions:

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04/19/23 Client Review

04/20/23 F

07/27/23

Revisions Based on Site Changes

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Sheet Tit

PROPOSED LANDSCAPE PLAN, GENERAL NOTES, AND PLANT MATERIAL TABLE

Date of Drawing:	07/27/23
Scale:	1" = 20'-0"
Drawn By:	MCD
Job Number:	L23-031

LSP1.1

WEST MAIN STREET (HWY 12)

Job Number:

Sheef Number:

L F

Version 7.0 Exterior Redesign (ER) Prototype Left Hand Entry, Side Dock 21,831 sq.ft. INCLUDING CANOPY

Canopy Sq. Ft.: 1,167 Building Sq. Ft.: 20,664 FIN FLOOR: 0.00'

> FUTURE LOT 1 120,724 SQ. FT. 2.771 ACRES

NO PARKING

9 0 0 9 0 0 9 0 0

JupiSG (1) PycaC SPOTS

FUTURE LOT 2 113,938 SQ. FT. 2.616 ACRES 11

-43

45

45

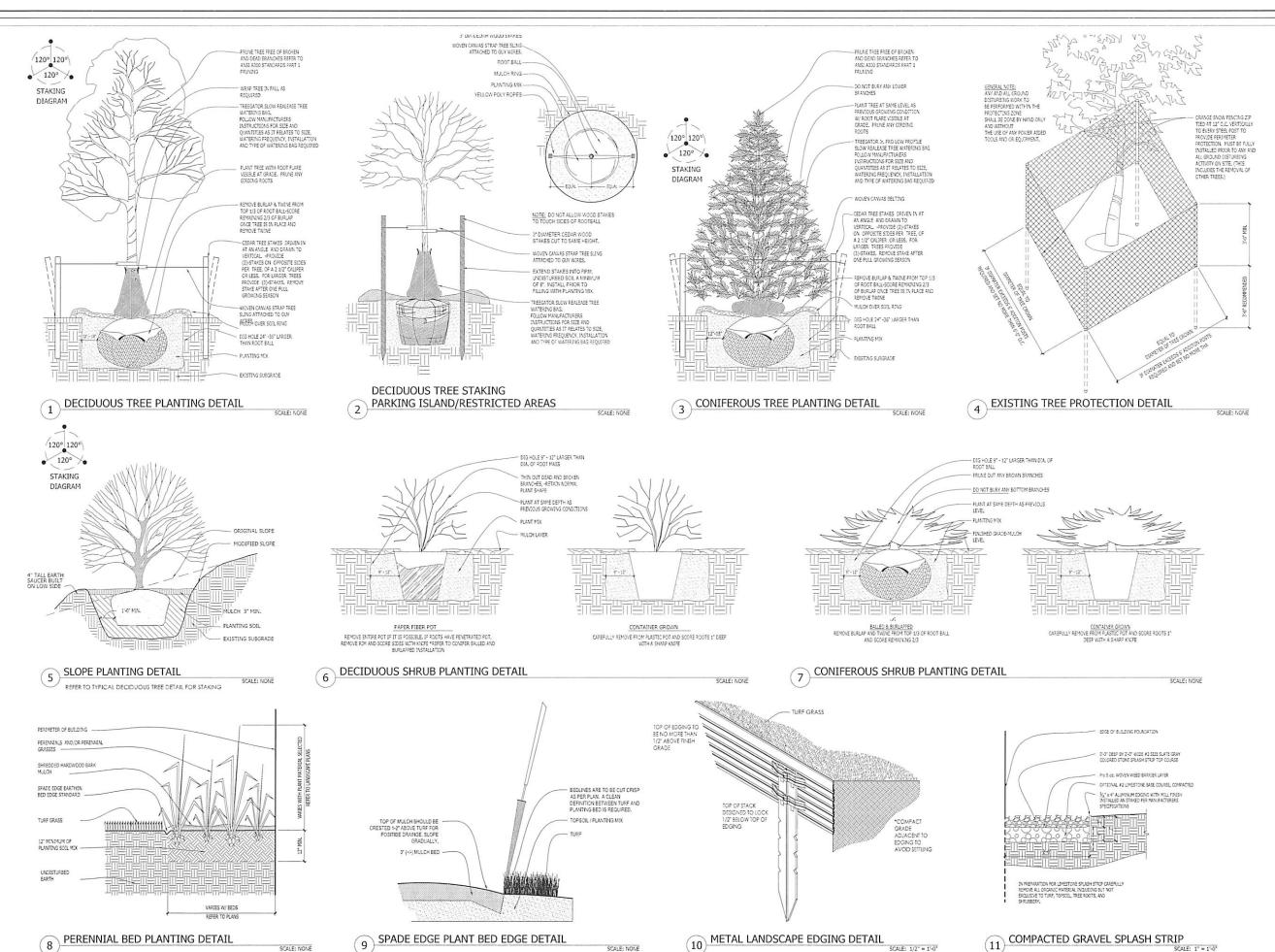
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NO PARKING

ALDI FOOD STORE #XX - 07/27/2023



INS TE

Landscape Consulting

11525 W. North Avenue, Suite 1B Wauwatosa, WI 53226 Tel (414) 476-1204 www.insitedesigninc.com mdavis@insitedesigninc.com

Project:

ALDI FOOD STORE #XX

West Main Street (Hwy 12) Whitewater, WI 53190

Issuance and Revisions:

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04/19/23

Submittal

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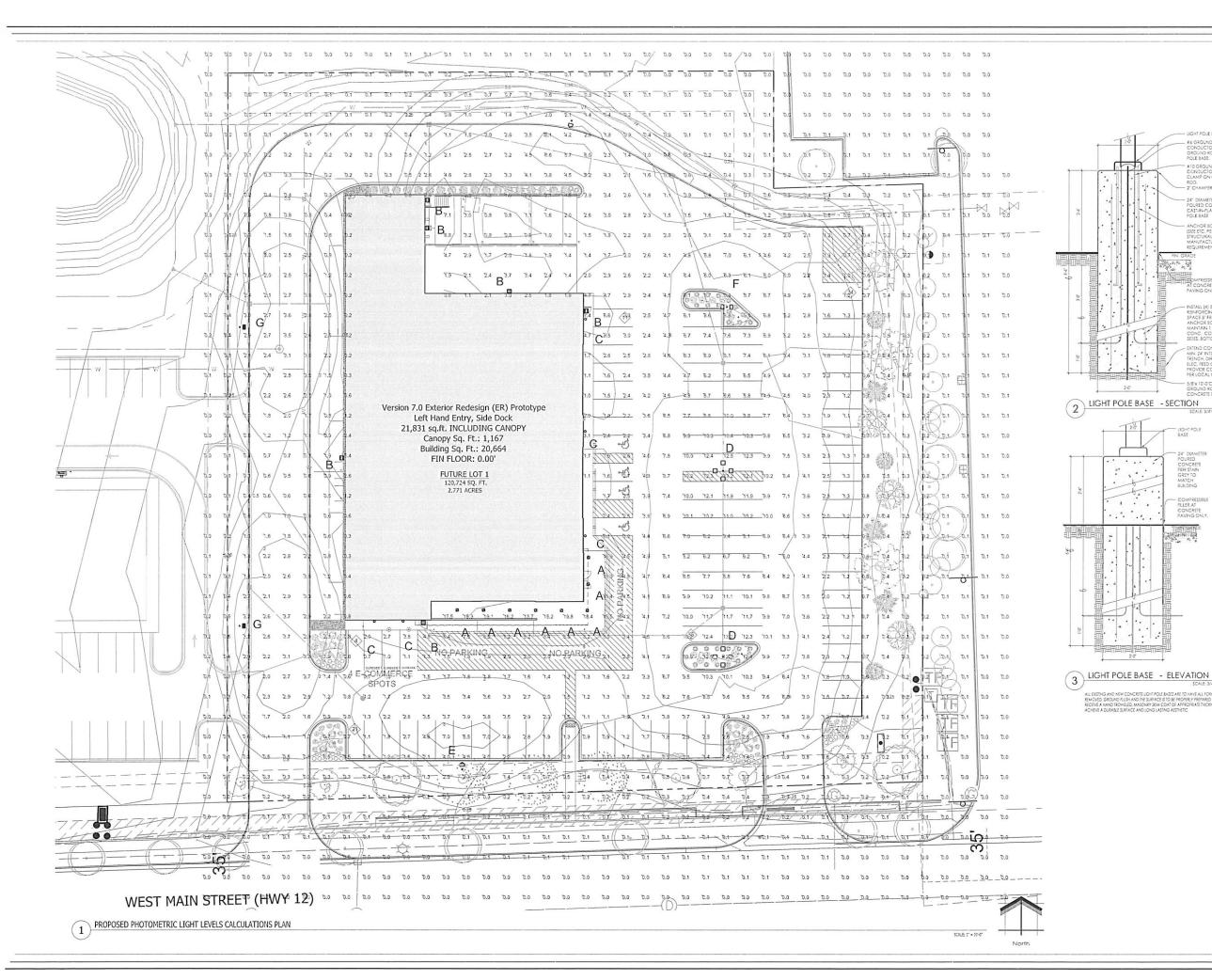
Sheet Title:

PROPOSED LANDSCAPE PLAN, PLANTING DETAILS

Date of Drawing:	04/19/23
Scale:	As Noted
Drawn By:	MCD
Job Number:	L23-031

ISP1.2

DO NOT SCALE and should not be used for



LANDSCAPE) DESIGN

Landscape Consulting & Master Planning Design Sevices

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Project:

ALDI FOOD STORE #XX

West Main Street (Hwy 12) Whitewater, WI 53190

Issuance and Revisions:

Number Description Client Review Submittal 04/19/23

Plan Commission Submittal

04/20/23

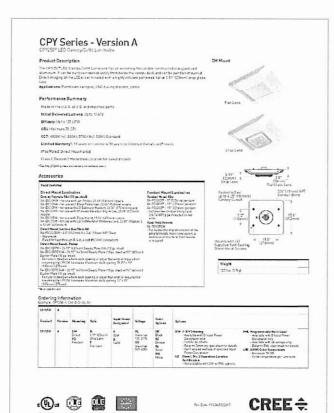
Revisions Based on Site Changes 07/27/23

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Sheet Title:

PROPOSED PHOTOMETRIC LIGHT LEVEL CALCULATIONS PLAN AND LIGHT POLE BASE SECTIONS

Date of Drawing: 07/27/23 Scale: 1" = 20'-0" Drawn By: Job Number: Sheet Number:



CPY SERIES LED CANOPY / SOFFIT LUMINAIRE

Color Dyllore

Color Options 123 127 (Sheet H. See Craithcyber H. Sant Strain Strain H. Strain

Full Size (0.0.)

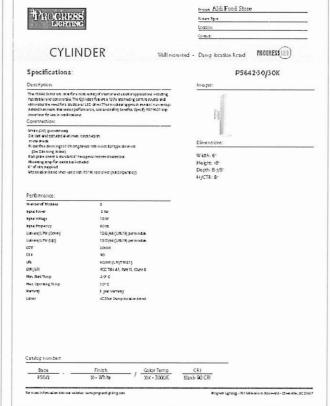
- 18 Sept 1 Fritten 15 Aug St. 12 Sept 4 Fritten 15 Aug St. 15 Sept 1 Fritten 15 Aug Sept 1 Sept 1 Fritten 16 Aug Sept 1 Sept 1 Fritten 16 Aug Sept 1 Sept 1 Sept Sep

Pole Size (D.D.)

Brackets and Tenons

Product Specifications





PROGRESS TOWER ELEMENT CYLINDER SCONCE

UL-SENSIEM

- For successful implementation of the programmation much lives lighter

- Emmeror of one hand-hald third is a required.

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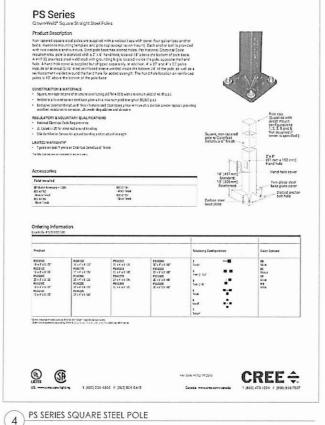
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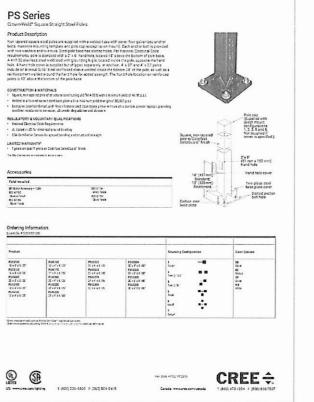
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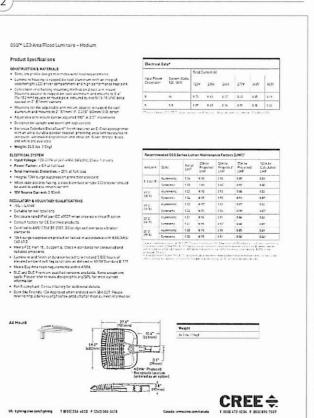


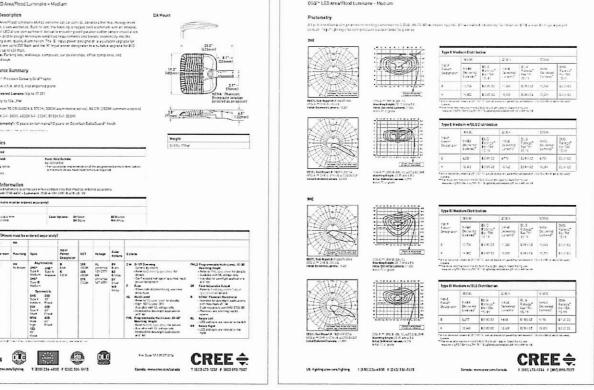
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PROPOSED LIGHT FIXTURES

Sheet Title:

Date of Drawing:

Scale:

Drawn By:

Job Number:

Sheet Number:

Item 5.

SPECIFICATION NOTE: SEE SHEET CO.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

SI EGITOTTIONS THE REGULEMENTS								
LANDSCAPING PLANTING SCHEDULE								
SYMBOL COMMON NAME BOTANICAL NAME PLANTED SIZE QUANT								
	DECIDIOUS SHRUBS							
	Arrowwood Viburnun	Viburnum dentatum	30"-36"	12				
9	Dwarf Korean Lilac	Syringa meyeri palibin	15"-18"	17				
	EVERGREE	N SHRUBS						
0	Different business	Thurle confidentable	42"-49"					

	LANDSCAPING CALCULATIONS	
ZONE	REQ. PLANTS	PLANTS PROVIDED
PARKING AREA BUFFER YARD	5 UNDERSTORY EVERGREEN TREE PER 100 LF (145 LF=8 EVERGREENS)	3 CANOPY/SHADE TREES (IN EXISTING ROW) 8 UNDERSTORY EVERGREEN TREES 18 SHRUBS



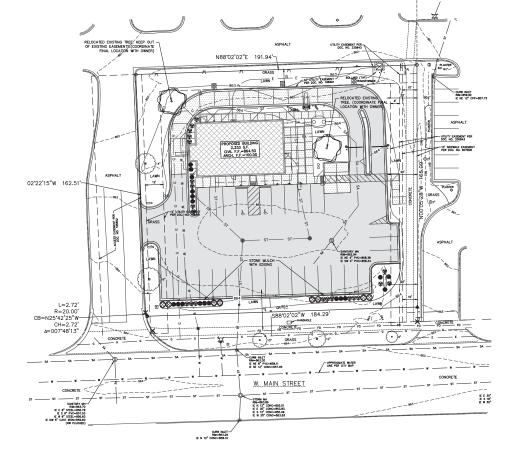
PROJECT INFORMATION

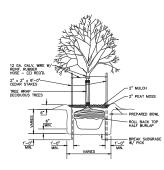
PROPOSED SHELL BUILDING FOR: **DSDH WHITEWATER**1280 WEST MAIN STREET • WHITEWATER, WI 53190

MAY 9, 2023

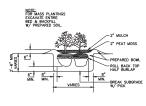
JOB NUMBER 2039700

SHEET NUMBER





TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

NO SCALE NORTH CIVIL LANDSCAPE AND RESTORATION PLAN

The Future of Whitewater's Territorial Oak Tree

On October 24th, 2023 Whitewater's historic Territorial Oak was taken down. Since the 1800s, it has been located at the intersection of what became Franklin and Main Streets. Unfortunately, the tree had been in decline for a long time, but in the past few years had stopped producing acorns and produced only a few leaves as is common for dying trees. Unlike its sister tree located just across Franklin Street in a front lawn with plenty of soil to live in, this tree has struggled to thrive in its confined quarters between a cement sidewalk and a street and had become a hazard to drivers and pedestrians as it had started to drop chunks of branches, some landing on cars. It's time had come.

When this tree sprouted from its acorn, this was still Indian country. The squirrel who probably planted this tree nearly 250 years ago was just doing its job. When the area was surveyed, this tree's diameter at breast height was 16 inches and was used as the "witness" tree from which much of this area was platted. On October 23rd that measurement was 169 inches. Just imagine all that this tree has been witness to! The Urban Forestry Commission along with the Landmarks Committee and city staff decided that we can't just say good-bye to this historical treasure.

The City of Whitewater and its Urban Forestry Commission intend to honor this tree by keeping it as an active part of this community. When the Arboretum at Starin Park was proposed a few years ago, the designs included a natural play area that will be adjacent to the existing playground. When we started this project, we had no idea that the Territorial Oak would be coming down at this time. Next summer, parts of this tree will be used to create a natural playground at Starin Park.

Sections of the tree will be used to create different kinds of play spaces and signage will be located throughout the area to explain why these logs and "wooden boulders" have come to live in the park. There will be safe and interesting climbing, jumping and educational opportunities for many, many years to come as this tree continues to be a living part of Whitewater's community.

Slices of the trunk will be used to create historical tree ring maps that will show the life of this tree from its beginning until now. They will chronicle historic events in line with the rings of the tree, showing its size at various points of its history and the history of our town and the world. These will be on display at Starin Park and also at the Walworth County Historical Society. Other slices will be used for signage at the Generac Welcome and Education Center at the Arboretum to honor the donors who've been essential to creating this Arboretum, and at the local Historical Society at the Whitewater Depot.

The Whitewater Urban Forestry Commission is always grateful for volunteers who have skills that would be useful to our efforts both at continuing to build and maintain the plantings at the Arboretum, this playground project, or for other ideas that you have and would like to share. Contact the Park and Recreation Department to get involved in our great community!

October 25, 2023

Tree Sale Order 1 to 10 11 to 24 25 or more As is Size Cost Total

2023

Maple, Black	Acer nigrum		\$22.5	\$19.5	\$17.0			Std. Tree
Maple, Red	Acer rubrum							No
Maple, Sugar	Acer saccarinum	5	\$50.0			\$250 RM	55	Std. Tree
Maple, Striped	Acer pennsylvanicum	3	\$55.0	\$19.5	\$17.0	\$165 RM	55	Std. Tree
Ohio Buckeye	Aesculus glabra		\$22.5	\$19.5	\$17.0			Std. Tree
Speckled Alder	Alnus incana	5	\$22.5	\$19.5	\$17.0	\$113 #5	22.5	Std. Tree
Serviceberry/ Juneber	r Amelanchier arborea		\$22.5	\$19.5	\$17.0	\$0		Std. Tree
Running Serviceberry	Amelanchier stolonifera	12	\$18.0			\$216 #2	18	
Juneberry	Amelanchier interior		\$22.5	\$19.5	\$17.0			Std. Tree
Allegheny Shadblow	Amelanchier laevis		\$22.5	\$19.5	\$17.0	\$0		Std. Tree
Indigo Bush	Amorpha fruticosa	4	\$20	\$17.5	\$15	\$80 #5	20	Std. Shrub
Black Chokeberry	Aronia melanocarpa	4	\$16			\$64 #2	16	
Paw Paw	Asimina triloba	6	\$26.5	\$24.5	\$22.5	\$159 #1	26.5	T1
Birch, Yellow	Betula alleghaniensis		\$22.5	\$19.5	\$17.0	\$0 #5	22.5	Std. Tree
Birch, River	Betula nigra		\$22.5	\$19.5	\$17.0	\$0 #5	19.5	Std. Tree
Musclewood	Carpinus carolinia	5	\$22.5	\$19.5	\$17.0	\$113 #5	22.5	Std. Tree
Pecan	Carya illinoinensis		\$26.5	\$24.5	\$22.5	\$0 #5	26.5	T1
Kingnut Hickory	Carya ovalis		\$26.5	\$24.5	\$22.5			T1
Hackberry	Celtis occidentalis	2	\$55.0			\$110 RM	55	
Buttonbush	Cephalanthus occidentali	3	\$16.0			\$48 #2	16	
Redbud	Cercis canadensis	11	\$22.5	\$19.5	\$16.5	\$215 #5	19.5	Std. Tree
Yellowwood	Cladrastis kentukea		\$34.5	\$32.5	\$30.5	\$0		T2
Dogwood, Pagoda	Cornus alternifolia	11	\$17.5	\$19.5	\$17.0	\$193 #5	17.5	Std. Tree
Hazelnut	Corylus americana	11	\$20	\$17.5	\$15	\$193	17.5	Std. Shrub
Dwarf Honeysuckle	Diervilla lonicera	5	\$16	\$17.5	\$15	\$80 #2	16	Std. Shrub
Persimmon	Diospyros virginiana	3	\$22.5	\$19.5	\$17.0	\$68 #5	22.5	Std. Tree
Eastern Wahoo	Euanamous atropurpea	3	\$26	\$17.5	\$15	\$78 #2	26	Std. Shrub
Beech, American	Fagus grandifolia	3	\$85.0	\$32.5	\$30.5	\$255 RM	85	T2
Kentucky Coffee Tree	Gymnocladus dioicus	5	\$22.5	\$19.5	\$17.0	\$113	22.5	Std. Tree
Witch Hazel	Hamamelis virginiana	5	\$22.5	\$19.5	\$17.0	\$113 3'	22.5	Std. Tree
Butternut	Juglans cinerea	2	\$55.0	\$19.5	\$17.0	\$110 RM	55	Std. Tree

Common Juniper	Juniperis communis		\$25.0	\$18.5	\$16.5			Spec. Shruk
Larch	Larix larcinia	0	\$22.5	\$19.5	\$17.0	\$0		Std. Tree
Tuliptree	Liriodendron tulipifera	5	\$22.5	\$19.5	\$17.0	\$113	22.5	Std. Tree
Cucumber Magnolia	Magnolia acuminata		\$34.5	\$32.5	\$30.5			T2
Sweetgale	Myrica gale	3	\$16.0			\$16 #2		
Tupelo	Nyssa sylvatica	2	\$22.5	\$19.5	\$17.0	\$45 #5	22.5 pH issue	e Std. Tree
Ironwood	Ostrya virginiana	7	\$22.5	\$19.5	\$17.0	\$158	22.5	Std. Tree
Sycamore	Plantanus occidentalis	0	\$22.5	\$19.5	\$17.0	\$0		Std. Tree
Aspen, Bigtooth	Populus grandentata	2	\$45.0			\$90 RM	45	
Plum, American	Prunus americana	11	\$22.5	\$19.5	\$17.0	\$215 #1	19.5	Std. Tree
Cherry, Pin	Prunus pensylvanica	2	\$50.0			\$100 RM	50	
Hoptree, Common	Ptelea trifoliata	2	\$55.0			\$110 RM	55	
	Quarcus muahlanhargii							
Oak, Chinkapin	Quercus muehlenbergii	11	\$22.5	\$19.5	\$17.0	\$215 #5	19.5	Std. Tree
Oak, Swamp White	Quercus bicolor	11	\$22.5	\$19.5	\$17.0	\$215 #5	19.5	Std. Tree
Oak, Bur	Quercus macrocarpa	11	\$22.5	\$19.5	\$17.0	\$215 #5	19.5	Std. Tree
Fragrant sumac	Rhus aromatica	2	\$16.0			\$32 #2	16	
American Mountain A	s Sorbus americana		\$22.5	\$19.5	\$17.0	\$0.00		Std. Tree
Showy Mointain Ash	Sorbus decora	2	\$99.0			\$198 #10	99	
Bladdernut	Staphylea trifolia	11	\$20	\$17.5	\$15	\$193 #5	17.5	Std. Shrub
Bald Cypress	Taxodium distichum	5	\$22.5	\$19.5	\$17.0	\$113 #5	22.5	Std. Tree
Hemlock	Tsuga canadensis							No
	Viburnum							
Downy Arrowwood	rafinesqueanum	5	\$22.0	\$18.5	\$16.5	\$110 #3	22	Spec. Shruk
Total		200		То	tal Cost	\$4,756	Avg./Tree \$23.7	78

Available Available PP JN 0 yes 0 yes yes yes yes yes 0 yes 0 yes 0 yes

0 yes

Maple, Sugar	Acer saccharum	11	\$55.0	\$605.0 JN
Maple, Striped	Acer pennsylvanicum	3	\$60.0	\$180.0 JN
Speckled Alder	Alnus incana	5	\$28.5	\$142.5 JN
Running Serviceberry	Amelanchier stolonifera	15	\$19.0	\$285.0 JN
Fringe Tree	Chionanthus virginicus	1	\$100.0	\$100.0 JN
Beech, American	Fagus grandifolia	2	\$90.0	\$180.0 JN
Witch Hazel	Hamamelis virginiana	5	\$21.0	\$105.0 JN
Winterberry	Ilex verticillata (Female)	6	\$23.0	\$138.0 JN
Winterberry	llex verticillata (Male)	3	\$23.0	\$69.0 JN
Larch	Larix larcinia	2	\$55.0	\$110.0 JN
Sweetgale	Myrica gale	2	\$17.0	\$34.0 JN
Ironwood	Ostrya virginiana	7	\$22.5	\$157.5 JN
Common Ninebark	Physocarpus opulifolius	4	\$17.0	\$68.0 JN
Aspen, Bigtooth	Populus grandentata	2	\$45.0	\$90.0 JN
Plum, American	Prunus americana	5	\$22.5	\$112.5 JN
Western Sand Cherry	Prunus besseyi	2	\$13.0	\$26.0 JN
Chokecherry	Prunus virginiana	5	\$13.0	\$65.0 JN
Fragrant sumac	Rhus aromatica	2	\$17.0	\$34.0 JN
Showy Mountain Ash	Sorbus decora	4	\$60.0	\$240.0 JN
Meadowsweet	Spirea alba	5	\$17.0	\$85.0 JN
Steplebush/Hardhack	Spirea tomentosa	5	\$17.0	\$85.0 JN
Bladdernut	Staphylea trifolia	4	\$19	\$76.0 JN
Canadian Yew	Taxus Canadensis	6	\$46	\$276.0 JN
Northern White Cedar	Thuja Occidentalis	15	\$55.0	\$825.0 JN
Hemlock	Tsuga canadensis	5	\$90	\$450.0 JN
Ohio Buckeye	Aesculus glabra	2	\$21.00	\$42.00 PP
Black Chokeberry	Aronia melanocarpa	4	\$22.00	\$88.00 PP
Musclewood	Carpinus carolinia	5	\$24.50	\$122.50 PP
Hackberry	Celtis occidentalis	2	\$24.50	\$49.00 PP
Buttonbush	Cephalanthus occidentalis	3	\$22.00	\$66.00 PP
Dogwood, Pagoda	Cornus alternifolia	11	\$21.50	\$236.50 PP
Hazelnut	Corylus americana	5	\$22.00	\$110.00 PP
Dwarf Honeysuckle	Diervilla lonicera	15	\$19.50	\$292.50 PP
Persimmon	Diospyros virginiana	2	\$24.50	\$49.00 PP
Tuliptree	Liriodendron tulipifera	4	\$21.00	\$84.00 PP
Tupelo	Nyssa sylvatica	2	\$24.50	\$49.00 PP
Plum, American	Prunus americana	12	\$21.50	\$258.00 PP
Oak, White	Quercus alba	11	\$21.50	\$236.50 PP
Oak, Chinkapin	Quercus muehlenbergii	11	\$21.50	\$236.50 PP
Oak, Bur	Quercus macrocarpa	11	\$21.50	\$236.50 PP
Oak, Dwarf Chinquapir	Quercus prinoides	2	\$21.00	\$42.00 PP
Maple Leaf Viburnum	Viburnum acerifolium	11	\$21.50	\$236.50 PP
Downy Arrowwood	Viburnum rafinesqueanum	11	\$21.00	\$231.00 PP
Total		250		\$7,204.00

Milkweed - Monarch's

- Milkweeds Native to Wisconsin (13 milkweed species) 1 non-aggressive (close neighbor introduced)
 - Swamp/Rose, Butterfly, Common, Poke, Whorled are the most common
 - Each has a bit different bloom time and location where they live naturally
 - Asclepias amplexicaulis Clasping Soils: Sandy; dry Habitat: grasslands, savannas, woodland edges. 3' Tall Max.
 - Asclepias asperula Antelope-horns (Spider) milkweed Typically 1-2ft tall - Southwestern United States
 - Asclepias incarnata Swamp/Rose/Red Soils: Silty to loamy or clayey: moist-wet, tolerates some mesic Habitat: Moist prairies, marshes, ditches, edges of ponds, lakes, streams.
 - Asclepias hirtella Green Soils: Sandy, rocky to clay; dry-wet. Habitat: Prairies, meadows, open woods, disturbed areas, railways. It tends to grow in light to moderate shade, but tolerates full sun
 - Asclepias exaltata Poke Soils: All Habitat: upland woods to rich woodland openings, dappled to full shade.
 - Asclepias lanuginosa Woolly Soils: rocky soil Habitat: sunny; dry prairies, open woods 10-12" Tall Rare in WI.
 - Asclepias quadrifolia Four leaf Soil: dry, rocky, open woods, often inhabiting slopes and ridges 1-2.5' T Just South & East of WI
 - Asclepias ovalifolia Oval leafed High Quality prairies and savannas, prefers open sun and frequent wildfire. Rare in WI
 - Asclepias purpurascens Purple Soils: Loamy to clayey Habitat: Oak Savannah, woodland edges, savannas Endangered
 - Asclepias speciosa Showy Habitat: along canal banks and riparian sites and in sub-irrigated or occasionally flooded wetlands with sedges and rushes. (West of Wisconsin) Introduced to WI
 - Asclepias stenophylla Narrow- leaved Habitat: sun, dry hill prairies
 1-2' Tall Just West and South of WI
 - Asclepias sullivantii Prairie Soils: Sandy clay or loamy: mesic-moist Habitat: prairies, wet meadows. 4' Tall Max
 - Asclepias syriaca Common Soils: All Habitat: All, disturbed areas.
 - Asclepias tuberosa Butterfly Soils: Sandy, loamy, rocky, dry-mesic;
 Habitat: Prairies, old fields, open woods
 - Asclepias variegata Redring/White-Flowered Soil: dry clay, loam, or rocky soil Habitat: Full sun to light shade, upland forests and woodland edge habitats, sandy open ground, ravine bottoms, low woods, slopes, ridges and roadsides. 1-3' Tall. SE United States

- Asclepias verticillata Whorled Soils: Sandy, rocky, clayey; dry-mesic Habitat: Prairies, open woods, fields, flood plains, glades, railways, disturbed areas.
- Asclepias viridiflora Green Comet Sandy, Rocky, dry; prairies, old fields, dunes, open woods 3' Tall

Milkweeds (*Asclepias* spp.) are herbaceous perennial plants named for their milky sap. These plants occur in a wide range of habitats, including intact natural communities on roadsides and highly disturbed roadsides. As required host plants for monarch (*Danaus plexippus*) caterpillars, milkweeds play an essential role in the butterfly's life cycle (see reverse). Vegetation management that allows milkweeds to persist can support monarchs. This guide can help you recognize the most common native species found on roadsides in your region.



The most common milkweeds in roadsides in the Great Lakes Region (in alphabetical order):



PLANT: Upright, unbranched stems. **LEAVES:** Alternate; long and narrow; pointed at tips; with short hairs. **HABITAT:** Prairies, meadows, open woods, disturbed areas, railways. **SOILS:** Sandy, rocky to clay; dry-wet. **BLOOM:** Jun-Aug; green with purple or cream.



PLANT: One to many upright, branched stems; smooth or with short hairs. **LEAVES:** Opposite; lance-shaped or narrow; with few short hairs. **HABITAT:** Moist prairies, marshes, ditches, edges of ponds, lakes, streams. **SOILS:** Silty to loamy or clayey; moist-wet, tolerates some mesic. **BLOOM:** Jun-Aug; pink or light purple.



PLANT: One to many stout, upright, unbranched stems; usually with short dense hairs. **LEAVES:** Opposite; oval-shaped; hairy underneath. **HABITAT:** Prairies, old fields, railways, open woods, flood plains, disturbed areas. **SOILS:** Sandy to loamy, rocky or clayey; dry-wet. **BLOOM:** May-Aug; light purple or pink.



PLANT: One to many spreading to upright stems; with short hairs; lacks milky sap. **LEAVES:** Alternate; lance-shaped; hairy underneath. **HABITAT:** Prairies, old fields, open woods. **SOILS:** Sandy, loamy, rocky; dry-mesic. **BLOOM:** May-Aug; orange to red or yellow.



PLANT: One to several upright, unbranched stems; with short hairs. LEAVES: Whorled; narrow to needle-like; smooth or with short hairs. HABITAT: Prairies, open woods, fields, flood plains, glades, railways, disturbed areas. SOILS: Sandy, rocky, clayey; dry-mesic. BLOOM: May-Sep; white to green.

Additional Resources:

- For more information on monarchs and roadsides, including monitoring, visit: tinyurl.com/MJV-Monarchs-Roadsides
- Mowing and Monarchs: tinyurl.com/MJV-MowingForMonarchs
- Serces Society for Invertebrate Conservation: xerces.org
- Monarch Joint Venture: monarchjointventure.org

THE MONARCH BUTTERFLY LIFE CYCLE 1 Egg 3-5 DAYS 2 Larva Caterpillar grows by molting 5 INSTARS Adult 2-5 WEEKS (BREEDING GENERATIONS); 6-9 MONTHS (OVERWINTERING GENERATION) Chrysalis 10-14 DAYS

Multiple generations of monarchs are produced over the spring and summer, with the fall generation migrating to overwintering sites. You can monitor monarchs or milkweeds; see Additional Resources above.

Clasping milkweed (A. amplexicaulis)

PLANT: Upright, unbranched, stems; smooth; 3' max. LEAVES: Opposite; oval-shaped; wavy margins; base of leaves clasp stem. SOILS/HABITAT:



Sandy; dry; grasslands, savannas, woodland edges. BLOOM: Apr-Jun; pink or green with cream, sometimes purple.



Purple milkweed (A. purpurascens)

PLANT: Upright, unbranched, stout stems; smooth; 6' max. LEAVES: Opposite; oval-shaped; smooth above with fine hairs below. SOILS/



HABITAT: Loamy to clayey; mesic; prairies, meadows, woodland edges, savannas. BLOOM: May-Jul; dark rose to purple.



Prairie milkweed (A. sullivantii)

PLANT: Upright, unbranched, stout stems; smooth; 4' max. LEAVES: Opposite; lance- to oval-shaped; very smooth. SOILS/HABITAT: Sandy



clay or loamy; mesic-moist; prairies, wet meadows. BLOOM: Jun-Aug; pink with light green or purple.



Green comet milkweed (A. viridiflora)

PLANT: Multiple unbranched, spreading or upright stems; with short hairs; 3' max. LEAVES: Opposite; lance- or oval-shaped,



edges folded upward or wavy. SOILS/HABITAT: Sandy, rocky; dry; prairies, old fields, dunes, open woods. BLOOM: Jun-Jul; light to yellowish green.

Additional milkweeds in the Great Lakes region: Asclepias exaltata, A. lanuginosa, A. quadrifolia, A. ovalifolia, A. speciosa, A. stenophylla, A. variegata.

Maps & Distribution Data:

These profiles are derived from regional floras and field guides and Woodson's The North American Species of Asclepias (1954). Most common species are abundant across the states and are found in roadsides. Less common species might not occur in all states, have a limited distribution across a state, or may be less common in roadsides. Additional species may be uncommon in roadsides, have a small distribution in a state or region, or are uncommon or rare. The range maps indicate counties where species have been observed (but may be incomplete), and were created by USDA-NRCS using the latest data from the USDA's PLANTS database (https://plants.sc.egov.usda.gov).

ACKNOWLEDGMENTS: Written by Jennifer Hopwood, Stephanie Frischie, and Karin Jokela (Xerces Society), and Alison Cariveau (Monarch Joint Venture). Reviewed by Dan Zay (Michigan NRCS). Design, header, and monarch life cycle by Sara Morris (Xerces Society). This work was conducted in the National Cooperative Highway Research Program, which is administered by the Transportation Research Board of the National Academies of Sciences, Engineering, and Medicine.

PHOTO CREDITS: Jim Fowler (A. syriaca); Krista Lundgren, USFWS / flickr (A. viridiflora); Joshua Mayer / flickr (A. hirtella); Jerry Oldenettel / flickr (A. verticillata); Tom Potterfield / flickr (A. incarnata, A. purpurascens); Paul Rothrock / SEINet (*A. amplexicaulis*); Scott Seigfreid (*A. tuberosa)*, Xerces Society / Ray Moranz (A. sullivantil). Photographs remain under the copyright of the photographer. © 2019 by The Xerces Society for Invertebrate Conservation. Xerces® is a trademark registered in the U.S. Patent and Trademark Office.