## General Notes:

1. The landscape contractor shall review all site conditions prior to construction and notify the landscape architect of any discrepencies found in the base map information provided. The contractor is responsible for verifying all field conditions relazed to their construction activities. The landscape contractor shall abide by all local, state and federal regulations that apply to their work.

2. The landscape contractor shall determine the exact locations of all existing utilities prior to starting construction as required by state law. The contractor is responsible for damages that result from the failure to properly locate and protect all underground utilities.

3. Any damage to existing roads, curb & gutters, trees, turf or any site fixtures from the landscape contractor shall be repaired at no cost to the owner.

4. Preparing the finish grade for installation of sod, and plant bed preparation shall be the responsibility of the contractor. Locations that are defient of a minimum of 6" of quality topsoil shall be brought to the attention of the Landscape Architect prior to sodding.

5. The landscape contractor shall stake the plant locations in the field for review by the landscape architect prior to the start of construction activities. Minor field adjustments to the exact plant locations may need to be made. The landscape architect reserves the right to make field adjustments prior to planting. Any proposed re-locations by the landscape contractor shall be approved by the landscape architect prior to digging.

6. The landscape contractor shall coordinate their construction activities with the other contractors working on the site.

## Tree, Shrub and Perennial Planting Notes:

1. Planting beds shall be established indicated on the plan with an approved landscape edger with stakes.

2. Unless otherwise noted, plant beds shall consist of shredded bark mulch, 4" depth, free of soil or debris. All landscape plantings shall be mulched with a minimum of 4 inches of shredded bark mulch as shown on the details.

3. Trees and shrubs shall be freshly dug at time of delivery, unless container-grown.

4. The diameter of all tree pits shall be two times the diameter of the root ball. Tree pits shall be excavated so that the top of the ball will be set at 2 inches above the finished grade. The diameter of all shrub pits shall be two times the diameter of the root mass with soil. Shrub pits shall be excavated so that the top of the ball will be set at 1inch above finished grade.

5. The topsoil for backfilling the planting pits shall be mixed with compost at a ratio of 1: 3 boose compost to topsoil by volume. Backfill / planting soil shall be tested to determine suitability for planting per the specifications. New trees and shrubs shall be fertilized based on the recommendations provided by the soils report.

6. The contractor shall brace the trees as necessary per the details to insure plant stability.

7. Trees to be planted shall have a single, straight leader and tapered trunk. The tree shall be free of girdling roots that have circled around the tree and are constricting the tree at the base. Trees must be in good health and free of disease.

8. The planting contractor shall take measures to protect the trees and shrubs from damage due to planting. Newly planted trees shall be wrapped with tree wrap if the exposure or species warrant protection.

9. Planting shall not commence until the associated site improvements, pavements, and finish grading are completed.

10. The landscape contractor shall verify the suitability of soil to produce viable planting soil. Soil shall be clean of roots, weeds, sod, rocks, clods, clay lumps, concrete or other extraneous materials harmful to plant growth.

11. The Contractor shall not deviate from the plant selections without written approval of the Landscape Architect.

12. **The landscape contractor shall provide a warranty for all plant materials from the date of project acceptance until one year later.** The contractor shall replace dead or unhealthy plants during the warranty period with plants the same size and species specified with a new 90 day warranty starting on the date of replacement.

13. The landscape contractor shall notify the landscape architect when the project is ready to be reviewed for substantial completion. Written notice of Substantial Completion shall be issued prior to final payment being made.

14. The Landscape Contractor shall be responsible for the maintenance of newly installed landscaping and replacement of damaged plants or materials until the project is accepted as substantially complete.

16. Shrub and perennial planting beds shall recieve 18" depth of planting soil consisting of 50% topsoil, 40% screened compost and 10% sand. Planting soil shall be approved by the Landscape Architect prior to planting.

## Fine Grading & Sodding Notes:

1. All disturbed areas within the property limits that are not paved or established as planting beds shall be sodded.

2. The landscape contractor shall insure that soil conditions and established grades allow for proper drainage of all turf and planted areas. Any areas of poor drainage or over compaction shall be brought to the attention of the Landscape Architect prior to the start of any work. It is the responsibility of the landscape contractor to provide proper surface and subsurface drainage.

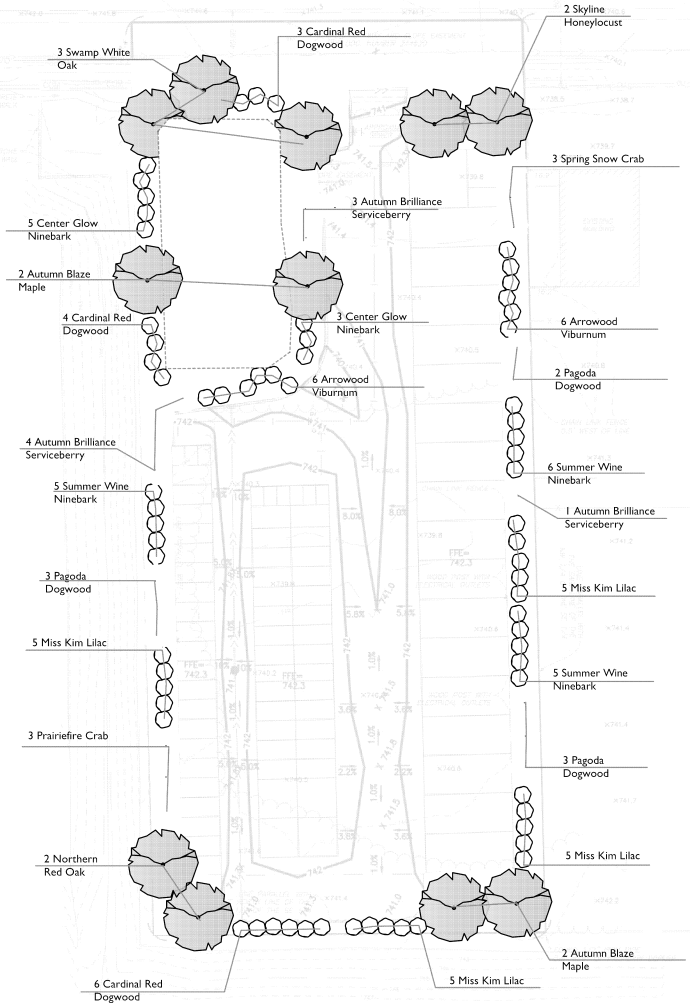
3. All planting and sodding shall be done before October 15. Seeding before or after these dates shall be done at the Contractor's own risk at no additional expense to the Owner should a replanting be necessary.

4. Disturbed areas that remain idle for 14 days shall recieve a temporary seeding of annual rye or oats at 100 lbs per acre.

5. The sodded areas shall be sodded with a Kentucky bluegrass blend. Sod shall have well established roots and turf cover. The sod shall be free of weeds and non conforming grasses. The owner reserves the right to reject poor quality sod.

6. The area to be sodded shall be watered heavily to provide ample soil moisture without causing erosion. Sod shall be installed with staggered joints with sod butted tightly at the joints. The sod shall be laid parallel to the slope and pegged to prevent movement.

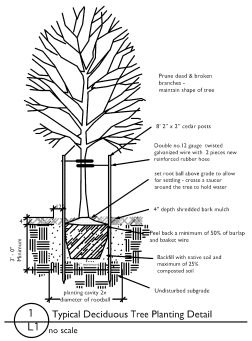
7. Newly installed sod shall be watered immediately after laying until completely soaked and then rolled to make complete contact between the sod and the soil.



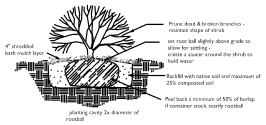

## Planting / Materials Legend

| Symbol | Description |
|---|---|
| | deciduosh tree to be planted |
| | evergreen tree to be planted |
| | sod to be installed |
| | MnDot seed mixture 33 - 261 w/ North American Green DS 75 Erosion Blanket @ MnDot specified seeding rate |

## Planting Details




1 L1 Typical Deciduous Tree Planting Detail
no scale




2 L1 Typical Shrub Planting Detail
no scale

Storage Building square footage = 28,500 sf

Trees 2/1,000 sf to 10,000 = 20

1.5/1,000 sf from 10,000 - 50,000 = 28

total for buildings = **48 trees**

Impervious paving = 27,385 sf

1 tree per 4,000

= **7 trees**

**total = 55 trees /**

**proposed 33 trees / 69 shrubs**

## Planting Schedule

| Common Name | Latin Name | Qty | Size | Spacing | Plant | Mature |
|---|---|---|---|---|---|---|
| Autum Blaze Maple | Acer x freemanii 'Jeffersred' | 4 | 2 1/2" | varies | B & B | 50 ft. |
| Skyline Honeylocust | Gleditsia Triacanthos 'Skyline' | 2 | 2 1/2" | varies | B & B | 50 ft. |
| Swamp White Oak | Quercus bicolor | 3 | 2 1/2" | varies | B & B | 50- 60 ft. |
| Northern Red Oak | Quercus rubra | 2 | 2 1/2" | varies | B & B | 60- 80 ft. |
| Spring Snow Crab | Malus ' Spring Snow' | 3 | 2" | varies | B & B | 15 - 20 ft. |
| Prairiefire Crab | Malus ' Prairiefire' | 3 | 2" | varies | B & B | 15 - 20 ft. |
| Pagoda Dogwood | Cornus alternifolia | 8 | 6-8 ft. | varies | B & B | 15 - 20 ft. |
| Autumn Brilliance Serviceberry | Amelanchier | 8 | 6-8 ft. | varies | B & B | 15 - 20 ft. |
| Cardinal Red Twigged Dogwood | Cornus sericea 'Cardinal' | 13 | #5 | 8' o.c. | cont | 8-10 ft. |
| Arrowwood Viburnum | Viburnum dentatum | 12 | #5 | 8' o.c. | cont | 10-12 ft. |
| Miss Kim Lilac | Syringa patula 'Miss Kim' | 20 | #5 | 5' o.c. | cont | 6-7 ft. |
| Center Glow Ninebark | Physocarpus opulifolius ' Center Glow' | 8 | #5 | 5' o.c. | cont | 8 - 10 ft. |
| Summerwine Ninebark | Physocarpus opulifolius ' Summerwine' | 16 | #5 | 5' o.c. | cont | 5 - 6 ft. |

0 30' 60'

North

| DATE | REVISIONS |
|---|---|
| | |

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I hereby certify that these plans were prepared by me, or under my direct supervision, and that I am a duly registered Landscape Architect in the State of Minnesota

Paul W. Miller, Landscape Architect
State of Minnesota: Reg. No. 20920

APRIL 17, 2018

SHAKOPEE 2914 , LLC

SHAKOPEE , MN

LANDSCAPE PLAN

SHEET NO .

L-1