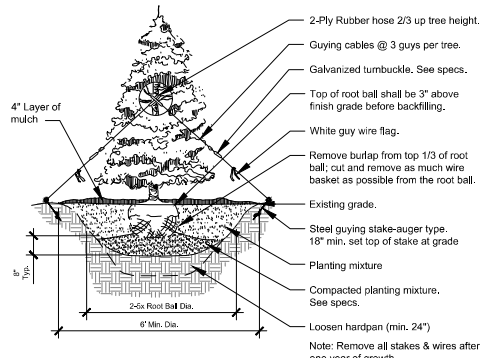
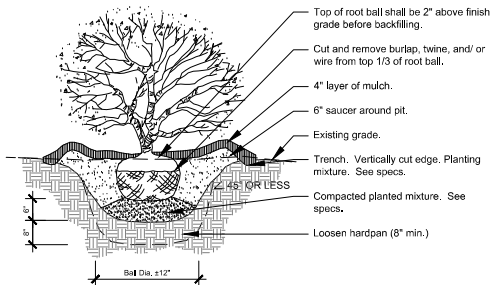


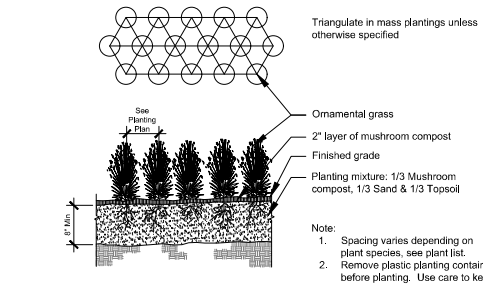
**1 Deciduous Tree Planting**  
1/4" = 1'-0"



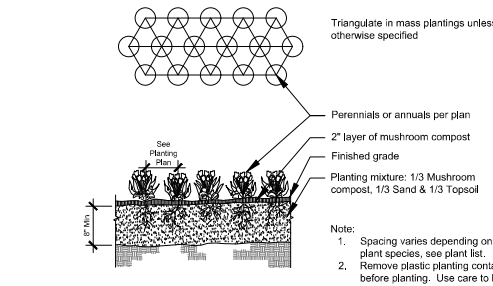
**2 Conifer Tree Planting**  
1/4" = 1'-0"



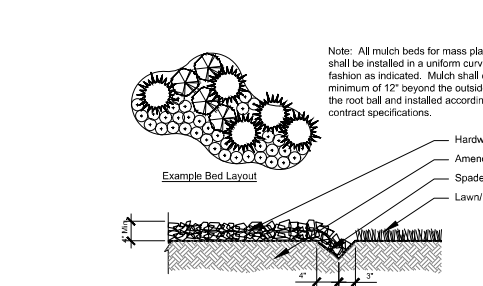
**3 Shrub Planting Detail**  
3/4" = 1'-0"



**4 Ornamental Grass Planting**  
1" = 1'-0"



**5 Perennial / annual planting**  
1" = 1'-0"



**6 Continuous Mulch Edging**  
1" = 1'-0"

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
ACE RES	12	Acer rubrum	Red Maple	2.5' Cal.	B&B
GEL OCC	10	Celtis occidentalis	Common Hackberry	2.5' Cal.	B&B
COR TUR	3	Corylus colurna	Turkish Filbert	2.5' Cal.	B&B
GIN BL	10	Ginkgo biloba	Maidenhair Tree	2.5' Cal.	B&B
GLE IN4	14	Gleditsia triacanthos inermis	Thornless Common Honeylocust	2.5' Cal.	B&B
HAM VIR	6	Hamamelis virginiana	Common Witch Hazel	5' HL	B&B
MET GLY	4	Metasequoia glyptostroboides	Dawn Redwood	2.5' Cal.	B&B

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
HYD BAI	21	Hydrangea macrophylla 'Endless Summer' TM	Baltmer Hydrangea	30"	Pot
HYD L58	49	Hydrangea paniculata 'Littles Limb'	Little Lime Hydrangea	30"	Pot
RHU GRO	140	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	30"	Pot
ROS KM2	16	Rosa shrub 'Knock Out'	Knock Out Rose	30"	B&B
TAX DEN	101	Taxus x media 'Densiformis'	Dense Yew	30"	Pot
THU TEC	15	Thuja occidentalis 'Techny'	Techny Arborvitae	6"	B&B
VIB CD2	12	Viburnum cerasiifolium 'Compactum'	Korean Spice Viburnum	3' HL	B&B

ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CAL KAR	56	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gal.	Pot
MIS SN	72	Miscanthus sinensis 'Adagio'	Adagio Eulalia Grass	1 gal.	Pot
PAN PR2	54	Panicum virgatum 'Prairie Fire'	Red Switch Grass	1 gal.	Pot
SPO HET	15	Sporobolus heterodactylus	Prairie Dropseed	1 gal.	Pot

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
ECH SA2	80	Echinacea x 'Balsomseed'	Sombrero Salvia Red Coneflower	1 gal.	Pot	12" o.c.
ECH PIX	10	Echinacea x 'Pixie Meadowrite'	Pixie Meadowrite Purple Coneflower	1 gal.	Pot	18" o.c.
GER ROZ	18	Geranium x 'Rozanne' TM	Hybrid Cranesbill	1 gal.	Pot	24" o.c.
HEM HAP	166	Hemerocallis x 'Happy Returns'	Happy Returns Daylily	1 gal.	Pot	15" o.c.
SAL EA2	97	Salvia x superba 'East Friesland'	Sage	1 gal.	Pot	15" o.c.

**City of Naperville Required Landscaping**  
(For City of Naperville review process only)

**PARKWAY LANDSCAPING REQUIREMENT**  
One approved species of parking tree per 40 feet of street frontage, not less than 4 feet from established sidewalk line, exclusive of widths of curb cuts and 30 foot line of sight triangle at intersections of two streets. Trees shall be minimum 2.5" trunk diameter.

Celebration Drive & Odysey Court - 656 lineal feet parking  
656 LF / 40 feet = 16.4 (17 canopy trees)

**Required - 17 canopy trees in parkway**  
**Provided - 17 canopy trees in parkway**

**PERIMETER LANDSCAPING REQUIREMENTS**  
Shade trees (min. 2.5" diameter) and/or evergreen trees (min. 6' height) not more than 70 feet apart along all property lines.

**Provided - Perimeter trees are not more than 70' apart along property lines**

**FOUNDATION LANDSCAPING REQUIREMENTS**  
Foundation plantings shall be located adjacent to all sides of buildings which face a public right-of-way in a planting bed a minimum of 2 feet in width. These plantings shall consist of a minimum of one plant per every 3 linear feet of building length. Particular attention should be paid to providing transitions between the building and ground plane, visual breaks along monotonous building facades, and enhancing walkways, entrances, seating areas or other pedestrian areas.

**Required: 2' wide foundation planting bed**  
**Provided: Foundation beds are a minimum of 2' wide**

Building frontage: 314 LF / 3 = 104.7 plants  
**Required: 1 plant per 3 LF of building frontage (105 plants)**  
**Provided: 297 plants**

**PARKING LOT INTERIOR LANDSCAPING**  
Landscape islands (min. of 130 square feet in area and min. 8 feet in width) at end of each parking row and such that no more than 20 adjacent parking spaces are located without a landscaping area.

One shade tree (min. 2.5" diameter) per 130 square feet of landscape island. Minimum of 50% of every landscape island shall be planted with live plant material to a maximum height of 30' at maturity.

**A tree has been provided at the end of each parking row, no more than 20 stalls between landscape islands.**

**PARKING LOT PERIMETER LANDSCAPING**  
Min. 5 foot-wide landscape area required around that part of the perimeter of all parking lots which abut another parcel or the public right-of-way (ROW). If the perimeter landscape area is interrupted for an access drive, required planting along this lot line shall be located elsewhere on site.

Across from public ROW, landscaping required across 50% of the parking lot, exclusive of driveways, to a min. height of 30". Such landscaping shall be shrubs or hedges spaced at a max. of 4 feet on center. Shade trees (min. 2.5" diameter) at no more than 70 feet apart, exclusive of access drives.

Parking Lot perimeter - 866 lineal feet  
866 LF / 70 LF = 12.4 (13 trees)

**Required - 13 trees in 5' wide perimeter parking lot beds**  
**Provided - 13 trees in 5' wide perimeter parking lot beds**

104 LF. of parking lot adjacent to another property.  
**Required 5' wide beds (west property line) - 104 LF.**  
**Provided - 104 LF.**

762 LF. x 50% = 381 linear feet of parking perimeter bed adjacent to ROW  
**Required - 381 linear feet of 5' wide beds**  
**Provided - 381 linear feet of 5' wide beds**

**UTILITY SEPARATION REQUIREMENT**  
Trees - 10 feet horizontally from utility structures, 5 feet horizontally from sanitary sewer and water services.

**The landscape plants comply with the separation distances from utility services and structures as required by Subsection 5-10-3.9 of Chapter 10 of the Municipal Code.**

No obstructions shall be placed within four (4') feet of the front and two (2') feet of the sides of the electrical meter. Per Naperville Service Rules and Policies 22.2.F.

This electrical requirement is met, per plans.

**Manhard CONSULTING LTD.**  
 100 N. Wacker Drive, Suite 1000, Chicago, IL 60606  
 Tel: 312.231.1100 Fax: 312.231.1101  
 www.manhardconsulting.com

**WHIRLYBALL NAPERVILLE**  
 CITY OF NAPERVILLE, ILLINOIS  
 LANDSCAPE SUMMARY & DETAILS

PROJECT NO.: SMS  
 PROJECT NO.: MN  
 DRAWN BY: JSM  
 DATE: 02-23-18  
 SCALE: AS NOTED

SHEET  
**L2 OF L3**  
 TMG-NVL01

# GENERAL PLANTING SPECIFICATIONS:

## PART 1 - GENERAL

### 1-01 DESCRIPTION:

1. Provide trees, shrubs, perennials and groundcovers as shown and specified. This work includes:
  - A. Spreading of topsoil or soil preparation
  - B. Trees, shrubs, perennials and groundcovers
  - C. Planting mixes
  - D. Muck and planting accessories
  - E. Fertilizer and herbicide
  - F. Warranty of plant material

B. The Contractor shall verify all existing conditions and dimensions in the field prior to bidding and report any discrepancies to the Owner or his/her representative.

### 1-02 QUALITY ASSURANCE:

- A. Comply with site work requirements
- B. Plant names indicated must comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties which are not listed should conform to those generally accepted by the nursery trade. Stock should be legibly tagged.
- C. All plant materials shall conform to the "American Standards for Nursery Stock" (ANS), latest edition, published by the American Association of Nurserymen, Washington, D.C.
- D. All plant material shall be grown and supplied within a 50 mile radius of the project for a minimum of two full growing seasons.
- E. Adhere to sizing requirements as listed in the plant list and/or bid form for the project. A plant shall be measured in its natural standing position.
- F. Stock that is furnished shall be at least the minimum size shown. With permission of the owner's representative or landscape architect, substitution from the specified plant list will be accepted only when satisfactory evidence in writing is submitted to the owner's representative or landscape architect, showing that the plant specified is not available. Requests for approval of substitute plant material shall include common and botanical names and size of substitute material. Only those substitutions of at least equivalent size and character to that of the specified material will be approved. Stock which is larger than that which is specified is acceptable with permission of the landscape architect, providing there is no additional cost and that the larger plant material will not be cut down in order to conform to the size indicated.
- G. All shrubs shall be disease free. Shrub liners do not meet these specifications. Shrubs specified by height shall have a spread that equals the height measurement. Shrubs which are specified by spread shall exhibit the natural growth habit of the plant by having a greater spread than height.
- H. All plant materials area subject to inspection and approval. The landscape architect and Owner reserves the right to select and tag all plant material at the nursery prior to planting. The landscape architect and Owner reserve the right to inspect plant material for size and condition of root systems, the presence of insects and diseases, injuries and latent defects (due to Contractor negligence or otherwise), and to reject unacceptable plant material at any time during progress of the project.
- I. Container grown deciduous and/or evergreen shrubs will be acceptable in lieu of balled and burlapped shrubs subject to specified limitations for container grown stock. Size of container grown material must conform to space-height requirements of plant list.

### 1-03 DELIVERY, STORAGE & HANDLING:

- A. Fertilizer shall be delivered in original, unopened and undamaged packaging. Containers shall display weight, analysis and manufacturer's name. Store fertilizer in a manner that will prevent wetting and deterioration.
- B. Take all precautions customary concerning proper trade practice in preparing plants for transport. Plants shall be dug, packed and transported with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock and on arrival, the certificate shall be filed with the landscape architect. All plants must be protected from drying out. If plant material cannot be planted immediately upon delivery, said material should be properly protected in a manner that is acceptable to the landscape architect. Household plants must be watered daily. No plant shall be bound with rope or wire in a manner that could strip bark or break or shear branches.
- C. Plant material transported on open vehicles should be covered with a protective covering to prevent wind burn.
- D. Dry, loose topsoil shall be provided for planting bed mixes. Muddy or frozen topsoil is unacceptable as working with medium in this condition will destroy its structure, making root development more difficult.

### 1-04 PROJECT CONDITIONS:

- A. Notify owner's representative at least seven (7) working days prior to installation of plant material.
- B. It shall be the Contractor's responsibility to locate and protect all existing above and below ground utilities. Utilities can be located and marked (in process) by calling J.U.L.I.E. at (800)850-4123.
- C. The Contractor shall provide, at his/her own expense, protection against trespassing and damage to seeded areas, planted areas, and other construction areas until the preliminary acceptance. The Contractor shall provide berms, temporary fencing, signs, and written warning or posting as may be required to protect such areas. The Contractor shall not be responsible for any damage caused by the Owner after such warning has been issued.
- D. The Contractor shall be responsible for the protection of crows, trunks and roots of existing trees, shrubs, lawns, paved areas and other landscaped areas that are to remain intact. Existing trees, which may be subject to construction damage, shall be balled, banded or otherwise protected before any work is started. The Owner desires to preserve those trees within and adjacent to the limits of construction except those specifically indicated to be removed on the Drawings. The contractor shall erect protective tree fencing and tree armor at locations indicated on the drawings and around all trees on site which are to be preserved. Protective fencing shall be erected between the limits of construction and any tree preservation areas shown on the Drawings.
- E. A complete list of plants including a schedule of sizes, quantities and other requirements as shown on the Drawings and on the bid form. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

### 1-05 PRELIMINARY ACCEPTANCE:

- A. All plantings shall be maintained by the Contractor for a period of 90 days after preliminary acceptance by the Owner or his/her representative. Maintenance shall include, but is not limited to: mowing and edging turf, pulling weeds, watering turf and plant material and annual flower maintenance.

### 1-05 WARRANTY:

- A. All plant material (excluding annual color), shall be warranted for one (1) year after the end of the 90 day maintenance period. The end of the maintenance period is marked by the final acceptance of the Contractor's work by the Owner or his/her representative. Plant materials will be warranted against defects including death and unsatisfactory growth, resulting from defects resulting from abuse or damage by others, or unusual phenomena or incidents which are beyond the control of the Contractor. The warranty covers a maximum of one replacement per item.

Contractor to provide maintenance bond (if any) for plant materials as required by municipality.

## PART 2 - PRODUCTS

### 2-01 PLANT MATERIALS:

- A. Plants: Provide typical of their species or variety, with normal, densely developed branches and vigorous, fleshy root systems. Only sound, healthy, vigorous plants which are free from insectal injuries, disfiguring knots, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation shall be provided. All plants shall have a fully developed form without voids and open patches.
  1. Balled and burlapped plants shall have a firm natural ball of earth of sufficient diameter and depth to encompass a root system necessary for a full recovery of the plant. Root ball sizes shall comply with the latest edition of the "American Standards for Nursery Stock" (ANS). Root balls that are cracked or mudcrusted are unacceptable.
  2. Container grown stock should be grown for an amount of time that is sufficient length for the root system to have developed enough to hold its soil together, firm and whole. Plants will not be loose in their containers, nor shall they be pot-bound and all container grown stock will comply with the sizes stated on the plant list.
  3. No evidence of wounds or pruning cuts shall be allowed unless approved by the Landscape Architect.
  4. Evergreen trees shall be branched to the ground. The height of evergreen trees are determined by measuring from the ground to the first lateral branch closest to the top. Height and/or width of other trees are measured by the mass of the plant not the top of the branches.
  5. Shrubs and small plants shall meet the requirements for spread and/or height indicated in the plant list. The height measurement shall be taken from ground level to the average height of the top of the plant, not the longest branch. Single stem or thin plants will not be accepted. Side branches shall be flushed with growth and have good form to the ground. Plants shall be in a moist, vigorous condition, free from dead wood, bushes or other roots or branch injuries.

### 2-02 ACCESSORIES:

- A. Topsoil: Topsoil shall be fertile, natural topsoil of a loamy character, without admixture of subsoil material. Topsoil shall be reasonably free from clay, lumps, coarse sand, stones, plants, roots, sticks and other debris with a pH between 5.5 to 7.0.
- B. Topsoil for seed areas shall be a minimum of 6".
- C. Soil amendments shall be as follows:
  1. For trees and shrubs the plant pit will be backfilled with pulverized black dirt.
  2. For perennials and ornamental grasses the soil mixture will be as follows: CM-63 General Purpose Plant Based Mix as supplied by Midwest Trading or approved equal. Top beds with 8" of CM-63 and fill into existing beds to a depth of 8". Soil mixtures are available from Midwest Trading, or approved equal.

Midwest Trading, St. Charles, IL 61714 (630) 365-1990

### D. Fertilizer:

1. For trees and shrubs use: 14-6-16 briquettes 17 g or equivalent available from Arthur Cleson, Inc. or approved equal. Follow manufacturer's recommendation for application.
2. For turf areas use: 6-24-16 Clean Fawnay with micronutrients with iron elements 3.0% N, 8.2% E, 30% Cu, 10% Fe, 0.008% Mo, 10% Mn available from Arthur Cleson or approved equal.

### E. Herbicide:

1. Round-Up or approved equal
- F. Mulch:
  1. Bark mulch shall be finely shredded hardwood bark which has been screened and is free of any green foliage, twigs, knots, sawdust, wood shavings, growth or germination inhibiting ingredients, or other foreign materials. Bark mulch is available from Midwest Trading or approved equal.
  2. Mulchroom compost as available from Midwest Trading or approved equal.
- G. Water: Water service will be available on the site, with the cost of water being paid by the Owner. Transporting of the water from the source to the work areas shall be the responsibility of the Landscape Contractor. All necessary hose, piping, tank truck, etc. shall be supplied by the Landscape Contractor.

### H. Guying:

1. Stakes: 5/8" x 40" steel eye anchor with 4" halk
2. Cable:
  - A. Trees under 5': 1/8" 1/8" galvanized aircraft cable, 7x7 strand or approved equal.
  - B. Trees 5' and over: flexible 3/16" galvanized aircraft cable, 7x7 strand or approved equal.
3. Turnbuckles: 5/16", eye and eye, with 4" takeup.
4. Hose: new two-ply reinforced rubber hose, minimum 1/2" I.D.
- I. Tree wrap: Butyl tree wrap 4" wide.
- J. Twine: Soft nursery jute.

## PART 3 - INSTALLATION OF PLANT MATERIAL

### 3-01 FIELD VERIFICATION:

- A. Examine proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.

### 3-02 PREPARATION:

- A. All planting techniques and methods shall be consistent with the latest edition of Horticulture Standards of Nurserymen, Inc. and as detailed on these Drawings.
- B. Planting shall be performed by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.
- C. All underground utilities must be located and marked clearly.
- D. Apply Round-Up or approved equivalent to kill any existing vegetation in all areas to be planted. Confirm length of waiting period between chemical application and plant installation with manufacturer. Do not begin planting operations until prescribed post-application waiting time has elapsed. Take extreme care to avoid chemical drift to adjoining properties of landscape plantings.
  1. Prior to all planting, cut-off all areas to be landscaped to prepare for plant installation to a minimum depth of 12". Eliminate uneven areas and low spots. Maintain lines, levels, profiles and contour. Changes in grade are to be gradual. Blend slopes into level areas. Remove all debris, weeds and undesirable plants and their roots from areas to be planted. Add all concrete flag larger than 2" in diameter.
  2. Topsoil shall be spread over the site at a minimum depth of 6". Those areas which are indicated as prairie or natural areas on the Drawings shall have a minimum topsoil depth of 18".
  3. It shall be the responsibility of the landscape contractor to prepare all seeded areas by disk and raising prior to planting seed. Soil shall be loosened and scarified to a minimum depth of 6". Fine grading of all seeded areas is required. Maximum size of stone or topsoil lump is 1".
  4. Locate all plant material as indicated or as approved in the field by the Landscape Architect. If obstructions are encountered which are not shown on the drawings, then do not proceed with planting operations until alternate plant locations have been selected.
  5. Planting holes shall be constructed as shown on the planting details. Holes shall be hand dug or machine dug. Great care will be taken to not excavate the hole deeper than the root ball and the diameter shall be a minimum of two times the root ball width. Remove any materials encountered in excavation that may be injurious to plant growth, including stones larger than 2" in diameter or other debris. Soil to be placed in backfill should be pulverized.
  6. Provide pre-mixed planting material for use around root systems and root balls of the plants. The mixture are outlined in section 6 of part 2-02.
  - K. Prior to planting, provide additional topsoil to all planting beds to bring the finish grade of the bed to 2" above lawn grade and to finish grade of adjacent hard surface grades.
  - L. Add 2" thickness of mushroom compost to all annual, perennial and groundcover beds. Finish grade and install plants.

- A. Set plant material in the planting hole to the proper grade and alignment. Set plants upright and stable. Set plant material 2" above the designated finish grade. Remove burlap from top 1/2 of root ball. Remove twigs and top (green). Cut and remove or cut and tie down upper half of wire basket, dependent upon tree size. Backfill hole by firmly tamping soil to avoid any air pockets or voids.
- B. Set balled and burlapped plants in the planting hole and compact 6" of soil around the base of the ball. Backfill remaining space with planting mixture. Water plants immediately after planting to eliminate all voids and thoroughly soak the plant root ball.
- C. Space groundcover plants according to dimensions given on the plans. Adjust spacing as necessary to evenly fill planting bed with indicated number of plants. Plant to within 18" of the trunk of trees and shrubs or at the edge of the plant ball, whichever is closest. Plant to within 12" of edge of bed.
- D. Mulching:
  1. Install 2" depth of mulch around all tree and shrub beds as indicated on drawings or planting details. Mulch shrub planting areas as continuous beds. Do not place mulch directly against tree trunk. Form mulch to create an inverted cone around trunk.
  2. Mulch perennial groundcover and annual planting areas with 2" mulchroom compost. Water mulched areas thoroughly after planting mulch.

### 3-03 PLANTING PROCEDURES:

1. Seeding of specified lawn areas on plans will be treated as follows:
  1. Topsoil shall be spread over all areas to be seeded to a minimum depth of 6" when compacted (to be performed by others).
  2. Seed mixture and application rate - use Premium seed mix as supplied by Arthur Cleson, Inc. or approved equal. Apply at a rate of 5 lbs./1,000 s.f.
  3. Apply fertilizers and conditioners at the rate specified per seed mix findings. In lieu of soil test results, apply two (2) tons of ground agricultural limestone and 1000 lbs. 10-10-10 or equivalent analysis fertilizer per acre. At least 40% of the fertilizer nitrogen shall be of an organic origin.
  4. Soil preparation areas where vehicular traffic has compacted the soil shall be loosened/scarified to a minimum depth of 6" before fertilizing and seeding. Fine grading of all seeded areas is required. Maximum size of stone or topsoil lump is 1".

- F. Staking and guying of trees is optional. The Contractor chooses to stake all or part of the trees. Twine shall use the method specified in the planting details. One (1) stake is to be used on trees of 1" to 2 1/4" caliper and/or, 4" height and under. Two (2) stakes are to be used on trees of 2 1/4" to 3 1/4" caliper. Guy wires will be attached at three (3) per tree. The root ball will not be placed with a stake. Stakes are to be driven at least eighteen (18) inches into subsoil below the planting hole. Stakes and wire attachments shall be removed after three months for saving planting material and by the following May for full planted stock by the Contractor. Staking and guying should be done immediately after lawn seeding or sodding operations.

- G. Seeding of specified lawn areas on plans will be treated as follows:
  1. Topsoil shall be spread over all areas to be seeded to a minimum depth of 6" when compacted (to be performed by others).
  2. Seed mixture and application rate - use Premium seed mix as supplied by Arthur Cleson, Inc. or approved equal. Apply at a rate of 5 lbs./1,000 s.f.
  3. Apply fertilizers and conditioners at the rate specified per seed mix findings. In lieu of soil test results, apply two (2) tons of ground agricultural limestone and 1000 lbs. 10-10-10 or equivalent analysis fertilizer per acre. At least 40% of the fertilizer nitrogen shall be of an organic origin.
  4. Soil preparation areas where vehicular traffic has compacted the soil shall be loosened/scarified to a minimum depth of 6" before fertilizing and seeding. Fine grading of all seeded areas is required. Maximum size of stone or topsoil lump is 1".

5. Watering seeded areas shall be done to ensure proper germination. Once seeds have germinated, watering may be decreased but the seedlings must never be allowed to dry out completely. Frequent watering should be continued approximately four (4) weeks after germination or until grass has become sufficiently established to warrant watering on an as needed basis.
6. Turf is being established on a variety of slope conditions. It shall be the Contractor's responsibility to determine and implement whatever procedures he/she deems necessary to establish the turf as part of his/her work. Seeded areas will be accepted when all areas show a uniform stand of the spruce grass in healthy condition and at least 90 days have elapsed since the completion of this work. The Contractor shall submit with his/her bid a description of the methods and procedures he/she intends to use.

- H. Erosion Control Blanket:
  1. Erosion Control Blanket shall be installed per manufacturer's recommendation in all areas shown on the plan.
  2. Install S-75 Erosion Control Blanket as manufactured by North American Green or approved equal.
  3. Blanket should be pre-moistened with staple pattern.
  4. Staples should be 8" wire staples, applied at two (2) per square yard minimum.
  5. Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS.

- I. Sodding of specified lawn areas on plans will be completed as follows:
  1. Rake soil surface to receive sod to completely remove any soil crust no more than one day prior to laying sod.
  2. Mow and prepare sod surface immediately prior to laying sod. Water thoroughly and allow surface moisture to dry before laying sods. Do not create a muddy soil condition.
  3. Sod shall be laid within 24 hours from the time of stripping. Do not plant sods out or if the ground is frozen.
  4. Lay sod to form a solid mass with lightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or soil. Work sited soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent sod.
  5. Place top elevation of sod 1/2 inch below adjoining edging or paving.
  6. Water sod thoroughly with a fine spray immediately after planting.
  7. After sod and soil have dried, roll seeded areas to ensure a good bond between the sod and soil, and to remove minor depressions and irregularities.
  8. Sodded slopes 3:1 or greater shall be staked to prevent erosion and washout.
  9. Warranty sodding for a period of one (1) year from the end of the 90 day maintenance period. If sod fails or backs vigor and full grass as determined by the Landscape Architect, the Contractor will repeat site preparation operations and reseed affected areas at the Contractor's expense.

- Note: Sod shall be a premium Kentucky Bluegrass blend, and is required in all areas indicated on the plans as well as areas which have been affected by construction. Sod can be placed as long as water is available and the ground surface can be properly prepared. Sod shall not be laid on frozen or snow-covered ground. Sod shall be strongly rooted, not less than 90 days old and free of weeds and undesirable native grasses. Sod should be machine cut to a top thickness of 3/4" (plus or minus 1/4") developing top growth and match. Provide only sod capable of vigorous growth and development when planted (visible root network of uniform part sizes with maximum 5% deviation in either length or width. Broken pads or pads with uneven ends will not be acceptable. Sod pads incapable of supporting their own weight when suspended vertically with a firm grasp on the upper 10% of pad will not be accepted.

- J. Timing of plant material and seeding operations:
  1. Seeding of specified areas shall occur when the soil temperature is above 55° F. No seed shall be sown during periods of high winds, or when the ground is not in proper condition for seeding (see section 3-02 (C)). Seeding operations for the specified mixes shall occur in the spring time frame of April 15 through June 30 and in the summer time frame of August 15 through December 1. The mixes containing bluegrass and fescue seed must have six weeks to harden off for winter survival.
  2. Sod shall be installed when the ground is not frozen or snow covered and temperatures are less than 80° F. It shall not be placed during a period of extended drought.
  3. Herbaceous ornamental plants shall be planted between May 1 and June 15 or between August 15 and December 1.
  4. Spring planting of woody ornamental plants shall be performed from the time the soil can be easily worked until June 1, whereby that evergreen planting shall end on May 15. Oak, hawthorn and red maple species will only be planted during this spring planting period. All plantings will be made in accordance with the planting details and approved, and verified satisfactorily, except that evergreen planting shall be performed between August 15 and December 1.

### 3-04 MAINTENANCE:

- A. All plantings shall be maintained by the Contractor for a period of 90 days after preliminary acceptance by the Owner or his/her representative. Maintenance shall include but is not limited to: mowing and edging turf, pulling weeds, watering turf areas and plant material plus annual flower maintenance. The Contractor will treat seeded plants to proper grade and position. Dead material will be removed. Stakes and guy wires will be tightened and replaced as required.

### 3-05 ACCEPTANCE:

- A. All plant material (excluding annual color), shall be warranted for one (1) year after the end of the 90 day maintenance period. The end of the maintenance period is marked by the final acceptance of the Contractor's work by the Owner or his/her representative.

### 3-06 SITE CLEAN-UP:

- A. The Contractor shall protect the property of the Owner and the work of other contractors. The Contractor shall also be directly responsible for all damage caused by the activities and for the daily removal of all trash and debris from his/her work area to the satisfaction of the landscape architect.

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21	NO. 22	NO. 23	NO. 24	NO. 25	NO. 26	NO. 27	NO. 28	NO. 29	NO. 30	NO. 31	NO. 32	NO. 33	NO. 34	NO. 35	NO. 36	NO. 37	NO. 38	NO. 39	NO. 40	NO. 41	NO. 42	NO. 43	NO. 44	NO. 45	NO. 46	NO. 47	NO. 48	NO. 49	NO. 50	NO. 51	NO. 52	NO. 53	NO. 54	NO. 55	NO. 56	NO. 57	NO. 58	NO. 59	NO. 60	NO. 61	NO. 62	NO. 63	NO. 64	NO. 65	NO. 66	NO. 67	NO. 68	NO. 69	NO. 70	NO. 71	NO. 72	NO. 73	NO. 74	NO. 75	NO. 76	NO. 77	NO. 78	NO. 79	NO. 80	NO. 81	NO. 82	NO. 83	NO. 84	NO. 85	NO. 86	NO. 87	NO. 88	NO. 89	NO. 90	NO. 91	NO. 92	NO. 93	NO. 94	NO. 95	NO. 96	NO. 97	NO. 98	NO. 99	NO. 100
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WHIRYBALL NAPERVILLE  
CITY OF NAPERVILLE, ILLINOIS  
LANDSCAPE SPECIFICATIONS

PROJECT NO.	SMS
PROJECT ADDRESS	MN
DATE	02-23-18
SCALE	NOT TO SCALE
SHEET	L3 OF L3
DATE	TMG-NV101