

PL 201900127  
PL 2019-127  
Skywater Tech Foundry  
2401 and 2411 East 86th Street

LEGEND		
PROPERTY LIMIT	PROPOSED	EXISTING
CURB & GUTTER	---	---
EASEMENT	---	---
BUILDING	---	---
RETAINING WALL	---	---
WETLAND LIMITS	---	---
TREELINE	---	---
LANDSCAPE EDGING	---	---
STORM SEWER	---	---
SANITARY SEWER	---	---
FORCEMAIN (SAN.)	---	---
WATERMAIN	---	---
YARDDRAIN	---	---
LIMITS OF DISTURBANCE	---	---
TREE PROTECTION FENCE	---	---
SIGN	---	---
PIPE BOLLARD	---	---
RIPRAP	---	---

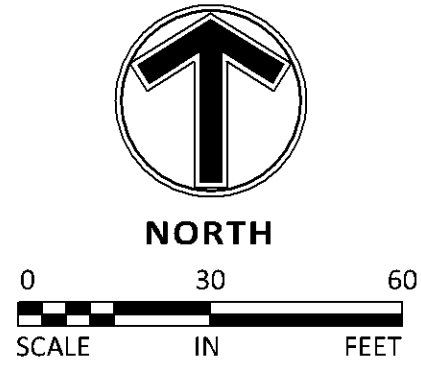
BLOOMINGTON LANDSCAPE CODE		
CALCULATIONS	REQUIRED	PROPOSED
DEVELOPABLE LAND AREA: 2,273 AC / 99,012 SF	40	99
ONE OVERSTORY TREE PER 2,500 SF OF DEVELOPABLE AREA	40	106
ONE SHRUB PER 1,000 SF OF DEVELOPABLE AREA		
50% OF SHRUBS MAY BE PERENNIALS		
4:1 PERENNIAL: SHRUB SUBSTITUTION RATIO		
MINIMUM OVERSTORY TREE SIZE	2.5" CAL	
MINIMUM ORNAMENTAL TREE SIZE	1.5" CAL	
MINIMUM EVERGREEN TREE SIZE	6' FEET	
MINIMUM ONE (1) DECIDUOUS TREE PER PARKING LOT ISLAND.		
PLANNED DEVELOPMENT ZONE		
AIRPORT RUNWAY OVERLAY (AR-17)		

1 calculate disturbance area as 125,000 SF as seen on C5.02. Additional 10 trees would be needed. Please verify disturbance area.

PLANT SCHEDULE							
TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY	
	CM	Acer x freemanii 'Armstrong' / Armstrong Freeman Maple	8 & 8	2.5" Cal		11	
	GB	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree (Male only)	8 & 8	2.5" Cal		4	
	HL	Gleditsia triacanthos 'Skyline' / Skyline Honey Locust	8 & 8	2.5" Cal		2	
	BL	Tilia americana 'Boulevard' / Boulevard Linden	8 & 8	2.5" Cal		3	
CONIFERS	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY	
	PPU	Picea pungens / Colorado Spruce	8 & 8		6'	4	
	AP	Pinus nigra / Austrian Black Pine	8 & 8		6'	4	
ORN. TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY	
	MIP	Malus ioensis 'Prairie Rose' / Prairie Rose Crabapple	8 & 8	1.25" Cal.		3	
	PF	Malus x 'Prairifire' / Prairifire Crab Apple	8 & 8	2" Cal		3	
	SS	Malus x 'Spring Snow' / Spring Snow Crab Apple	8 & 8	2" Cal		6	
SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT			QTY	
	BC	Aronia melanocarpa 'Autumn Magic' / Autumn Magic Black Chokeberry	5 gal			30	
	LH	Hydrangea paniculata 'Jane' / Little Lime Hydrangea	5 gal			12	
	JVB	Juniperus virginiana 'Blue Arrow' / Blue Arrow Juniper	#20 Cont			34	
	GL	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	5 gal			30	
PERENNIALS	CODE	BOTANICAL / COMMON NAME	CONT			QTY	
	HSS	Hemerocallis x 'Stella Supreme' / Stella Supreme Daylily	1 gal			51	
	SSH	Hosta x 'Sum and Substance' / Plantain Lily	1 gal			28	
	WLC	Nepeta x faassenii 'Walkers Low' / Walkers Low Catmint	1 gal			51	
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	CONT			QTY	
	TUR HIG	Turf Sod Highland Sod / Sod	Sod			20,544 sf	

#### REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	ROCK MULCH - 3/4" DRESSER TRAP ROCK W/ FABRIC. SEE LANDSCAPE NOTES



**Client**  
**ICE CASTLE**

**Project**  
**ICE CASTLE**

**Location**  
**BLOOMINGTON, MN**  
2401 E 86TH STREET

**Certification**

#### Summary

Designed by: Drawn: mww  
Approved: sdb Book / Page:  
Phase: PRELIMINARY Initial Issued: 07/24/2019

#### Revision History

No. Date By Submittal / Revision

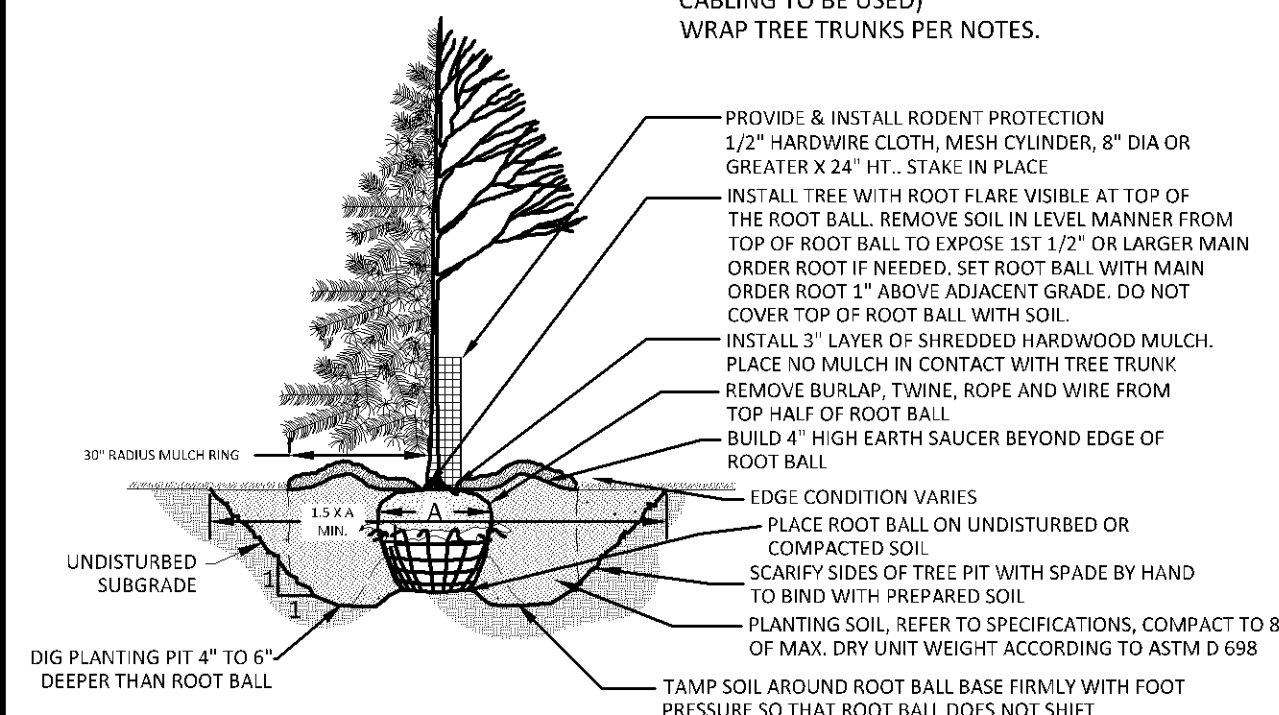
**Sheet Title**  
**LANDSCAPE PLAN**

**Sheet No. Revision**  
**L1.01**

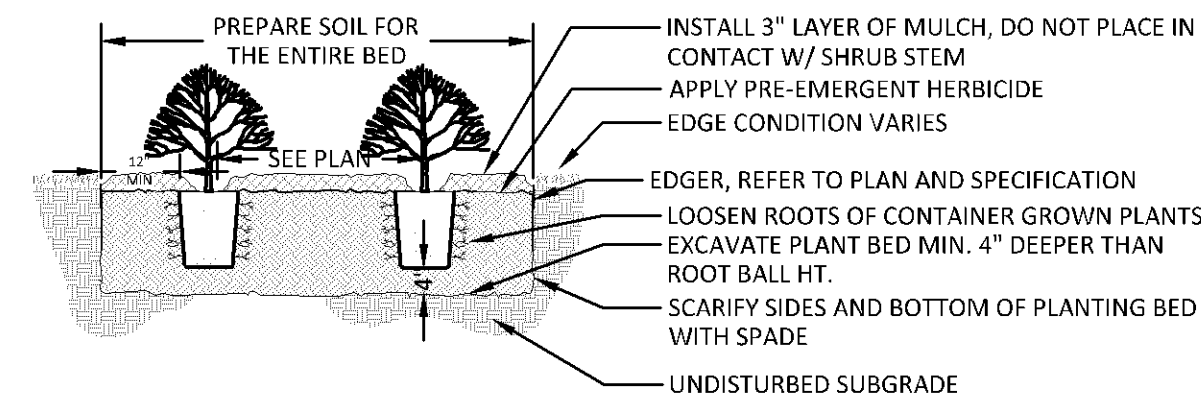
**Project No.** 21846



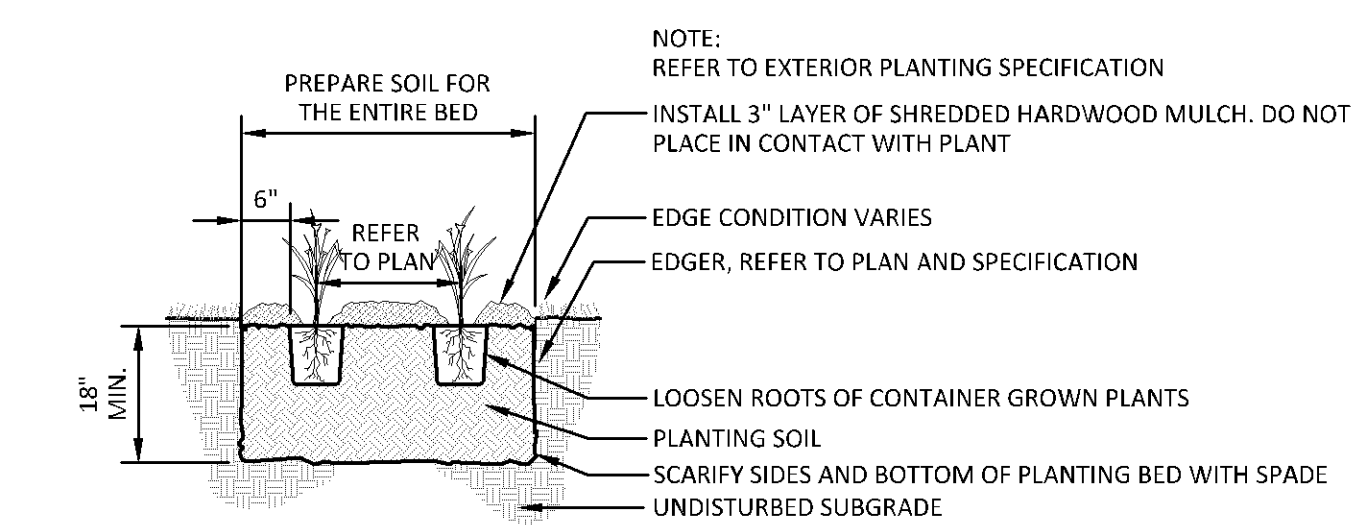
NOTE:  
CONTRACTOR SHALL MAINTAIN TREES IN A PLUMB POSITION THROUGHOUT THE WARRANTY PERIOD. IF STAKING IS REQUIRED BY SITE CONDITIONS, CONTRACTOR TO USE 2 OR 3 STAKE METHOD WITH 1" WEBBING AROUND TRUNK OF TREE (NO WIRE OR CABLE TO BE USED)  
WRAP TREE TRUNKS PER NOTES.



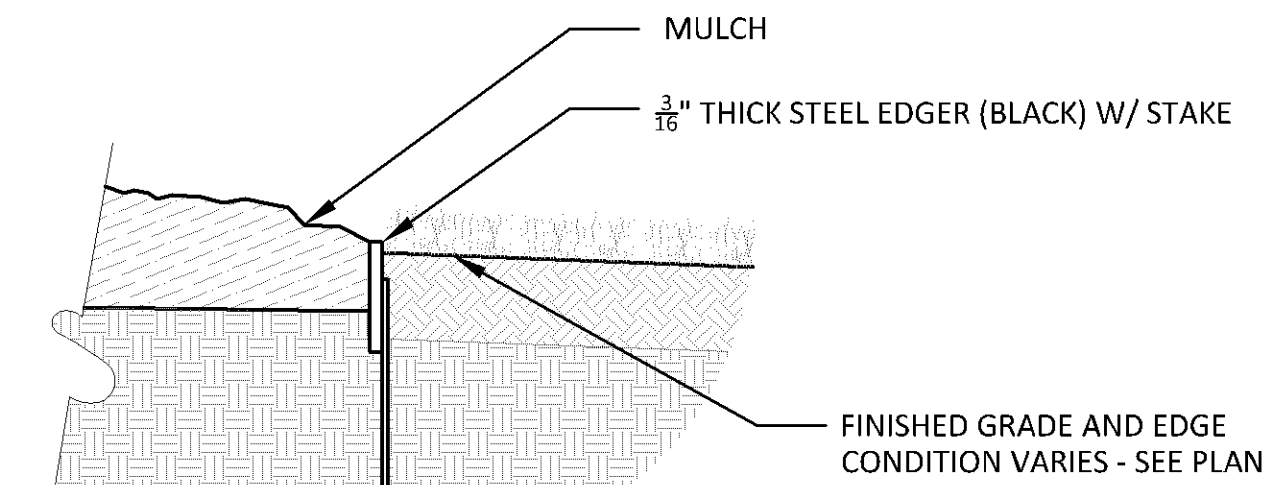
**1**  
L1.02  
1/4" = 1'-0"  
P-01



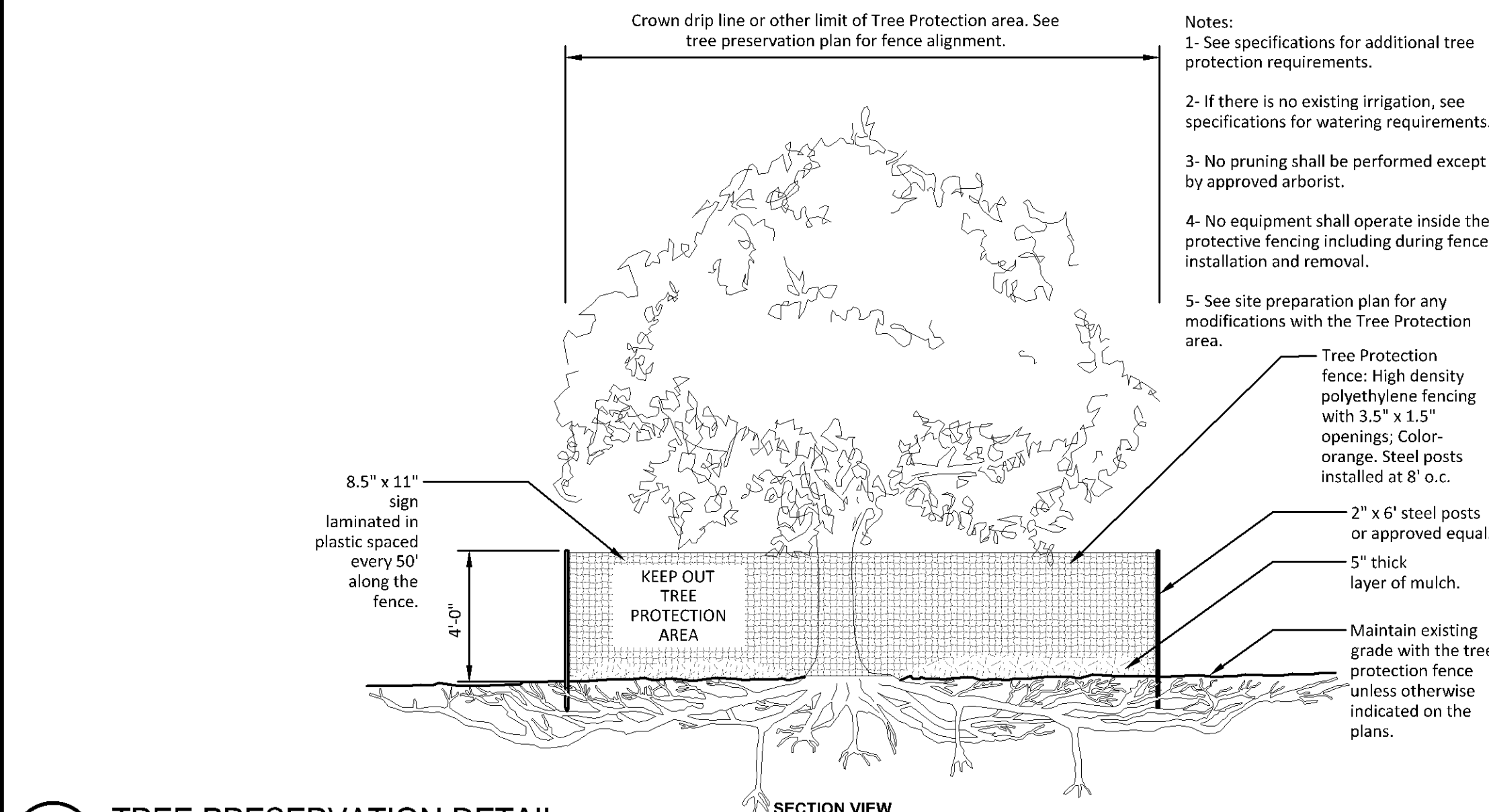
**2**  
L1.02  
3/8" = 1'-0"  
P-02



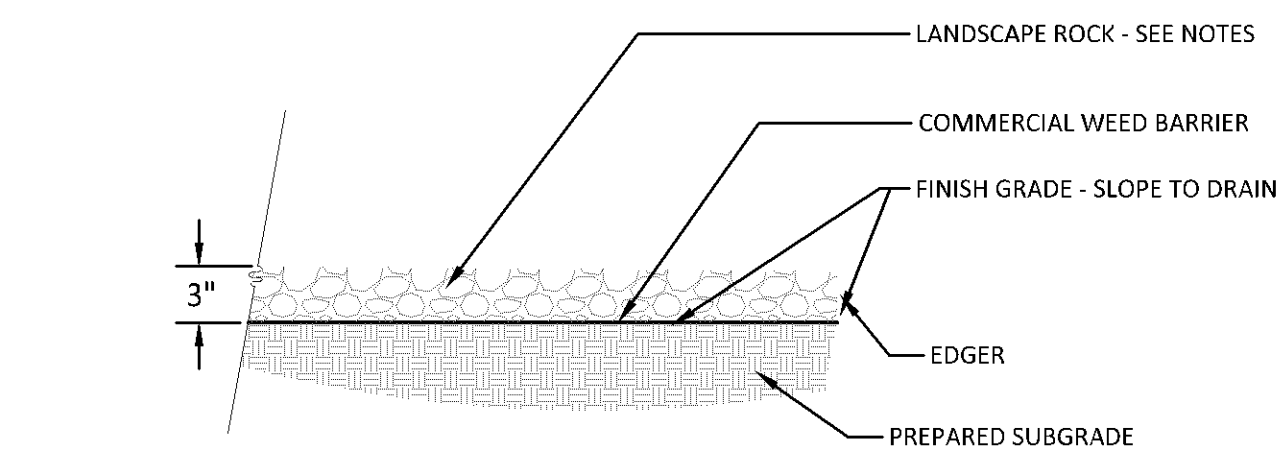
**3**  
L1.02  
1/2" = 1'-0"  
P-03



**4**  
L1.02  
1 1/2" = 1'-0"  
P-06



**5**  
L1.02  
1/4" = 1'-0"  
P-04



**6**  
L1.02  
1" = 1'-0"  
P-09

## NOTES

### GENERAL NOTES:

1. THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
2. THE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
4. THE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO SAME SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. LOCATE AND VERIFY ALL UTILITIES, INCLUDING IRRIGATION LINES, WITH THE OWNER FOR PROPRIETARY UTILITIES AND Gopher State One Call 48 HOURS BEFORE DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ANY DAMAGES TO SAME. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
6. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
7. THE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL, OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
8. THE PLAN TAKES PRECEDENCE OVER THE LANDSCAPE LEGEND IF DISCREPANCIES EXIST. QUANTITIES SHOWN IN THE PLANTING SCHEDULE ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON THE PLAN.
9. THE SPECIFICATIONS TAKE PRECEDENCE OVER THE PLANTING NOTES AND GENERAL NOTES.
10. EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED TO THE DRIP LINE FROM ALL CONSTRUCTION TRAFFIC, STORAGE OF MATERIALS, ETC. WITH 4" HT. ORANGE PLASTIC SAFETY FENCING ADEQUATELY SUPPORTED BY STEEL FENCE POSTS 6' O.C. MAXIMUM SPACING.
11. LONG TERM STORAGE OF MATERIALS OR SUPPLIES ON SITE WILL NOT BE ALLOWED.
12. CONTRACTOR SHALL REQUEST IN WRITING, A FINAL ACCEPTANCE INSPECTION.

### PLANTING NOTES:

1. NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
2. A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AT THE MANUFACTURERS RECOMMENDED RATE PRIOR TO PLANT INSTALLATION.
3. ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK" AND ISO, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSESMEN, INC. AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS.
4. OVERSTORY TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE PAVED SURFACES.
5. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE AND BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE LANDSCAPE LEGEND.
6. PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
7. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
8. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
9. NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
10. ALL PLANT MATERIAL QUANTITIES, SHAPES OF BEDS AND LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN AND ADJUSTED TO CONFORM TO THE EXACT CONDITIONS OF THE SITE. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIALS PRIOR TO INSTALLATION.
11. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
12. MULCH: ALL PLANTING BEDS, MAINTENANCE STRIPS, AND PARKING LOT ISLANDS TO HAVE ROCK TO MATCH EXISTING ROCK MULCH. SUBMIT SAMPLE OF PROPOSED AND EXISTING ROCK MULCH TO LANDSCAPE ARCHITECT FOR APPROVAL.
13. MULCH: SHREDDED HARDWOOD MULCH, CLEAN AND FREE OF NOXIOUS WEEDS OR OTHER DELETERIOUS MATERIAL, IN ALL MASS PLANTING BEDS AND FOR TREES, UNLESS INDICATED AS ROCK MULCH ON DRAWINGS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT PRIOR TO DELIVERY ON SITE FOR APPROVAL. DELIVER MULCH ON DAY OF INSTALLATION. USE 3" FOR SHRUB BEDS, TREE KINGS, AND 3" FOR PERENNIAL/GROUND COVER BEDS, UNLESS OTHERWISE DIRECTED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN.
15. USE ANTI-DESCENDANT WILT TRIP OR APPROVED EQUAL ON DECIDUOUS PLANTS MOVED IN LEAF AND FOR EVERGREENS MOVED ANYTIME. APPLY AS PER MANUFACTURER'S INSTRUCTION. ALL EVERGREENS SHALL BE SPRAYED IN THE LATE FALL FOR WINTER PROTECTION DURING WARRANTY PERIOD.
16. WRAP ALL SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1. TREE WRAPPING MATERIAL SHALL BE WHITE TWO-WALLED PLASTIC SHEETING APPLIED FROM TRUNK FLARE TO THE FIRST BRANCH.
17. ALL DECIDUOUS, PINE, AND LARCH PLANTINGS SHALL RECEIVE ROOT PROTECTION PER MNDOT 257.31.2.
18. PLANTING SOIL FOR TREES, SHRUBS AND GROUND COVERS: FERTILE FRAMBLE LOAM CONTAINING A LIBERAL AMOUNT (4% MIN.) OF HUMUS AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL COMPLY WITH MNDOT SPECIFICATION 3877 TYPE B SELECT TOPSOIL MIXTURE SHALL BE FREE FROM HARDPAK SUBSOIL, STONES, CHEMICALS, NOXIOUS WEEDS, ETC. SOIL MIXTURE SHALL HAVE A PH BETWEEN 6.1 AND 7.5 AND 10-10 FERTILIZER AT THE RATE OF 3 POUNDS PER CUBIC YARD. IN PLANTING BEDS INCORPORATE THIS MIXTURE THROUGHOUT THE ENTIRE BED IN A 4" LAYER AND ROTOTILLING IT INTO THE TOP 12" OF SOIL AT A 1:1 RATIO ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE LEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
19. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT EACH EXCAVATED TREE AND SHRUB PIT WILL PERCOLATE PRIOR TO INSTALLING PLANTING MEDIUM AND PLANTS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER AND CONFIRM THAT THIS WATER WILL PERCOLATE WITHIN A 24-HOUR PERIOD. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A PEX DRAIN OR GRAVEL SAND SHALL BE INSTALLED OR THE PLANTING SHALL BE RELOCATED IF DIRECTED BY THE LANDSCAPE ARCHITECT.
20. ALL PLANTS SHALL BE GUARANTEED FOR TWO COMPLETE GROWING SEASONS (APRIL 1 -

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**Client**  
**ICE CASTLE**

**Project**  
**ICE CASTLE**

**Location**  
**BLOOMINGTON, MN**  
2401 E 86TH STREET

## Certification

## Summary

Designed by: Drawn by: **nw**  
Approved: **sdb** Book / Page:  
Phase: PRELIMINARY Initial Issued: 07/24/2019

## Revision History

No. Date By Submittal / Revision

**Sheet Title**  
**LANDSCAPE**  
**DETAILS AND**  
**NOTES**

**Sheet No. Revision**  
**L1.02**

**Project No.** 21846