

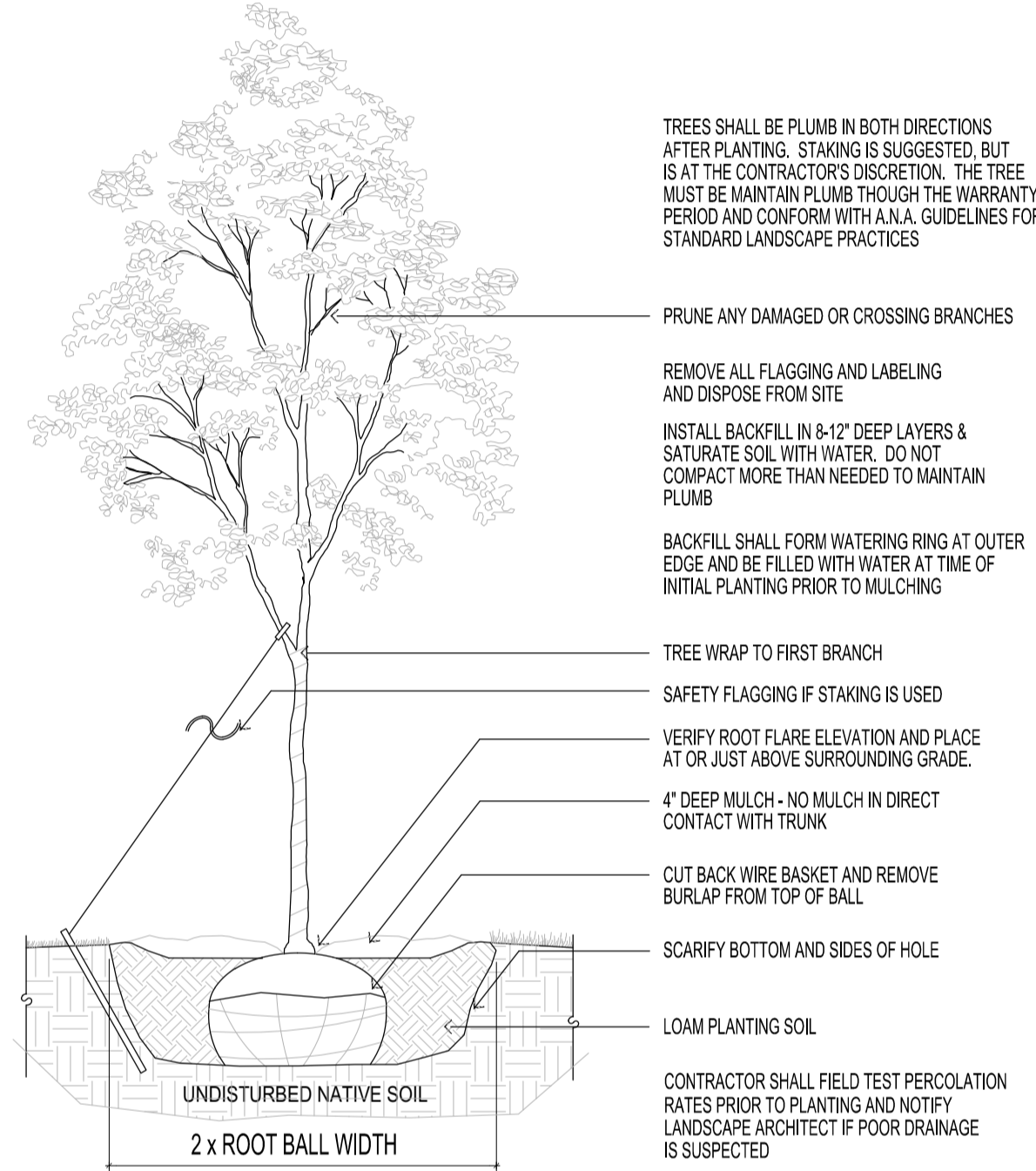
PER THE CITY OF RAMSEY LANDSCAPE ORDINANCE, REQUIRED LANDSCAPE QUANTITIES FOR THIS PROJECT ARE BASED ON RATIOS BASED ON BUILDING AREA OR SITE PERIMETER, WHICHEVER IS GREATER. FOR THIS PROJECT, SITE PERIMETER IS BEING USED FOR BOTH TREE AND SHRUB CALCULATIONS AND ARE CALCULATED AS FOLLOWS:

1. SITE PERIMETER = 2,484 LINEAL FEET
2. DIVIDED BY 50 = 49.68 = 50 TREES REQUIRED
3. DIVIDED BY 30 = 82.80 = 83 SHRUBS REQUIRED

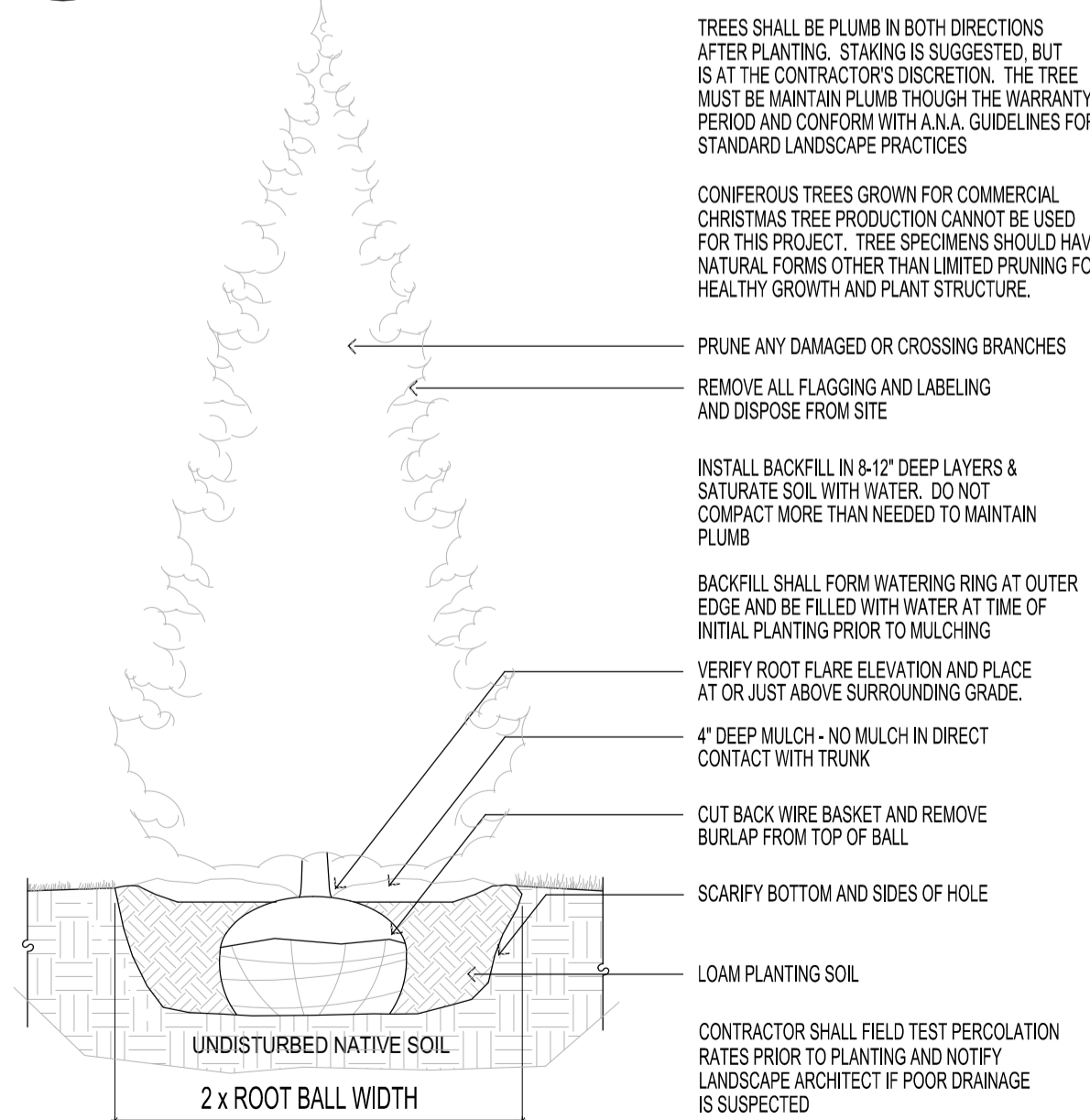
ROAD FRONTAGE PLANTINGS:
THE LANDSCAPE ORDINANCE REQUIRES ONE OVERSTORY TREE BE PLANTED FOR EVERY 35 LINEAL FEET OF PUBLIC ROAD FRONTAGE. FOR THIS PROJECT, ONLY THE EAST SIDE IS ADJACENT A PUBLIC ROAD AND IS CALCULATED AS FOLLOWS:

1. ARMSTRONG BOULEVARD FRONTAGE = 595 LINEAL FEET
2. DIVIDED BY 35 = 17 TREES REQUIRED
3. MANY EXISTING TREES (15+ QUALITY SPECIES) ARE BEING PRESERVED ON THE SOUTHEAST CORNER OF THE SITE AND ARE COUNTED TOWARD ROAD FRONTAGE SCREENING.
4. FIVE TREES ARE ADDED TO THE NORTH TO COMPLETE THE SCREENING REQUIREMENT.

LANDSCAPE CALCULATIONS:



1 DECIDUOUS TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"



2 CONIFEROUS TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"

PARKING LOT TREE PLANTINGS:
THE LANDSCAPE ORDINANCE REQUIRES ONE OVERSTORY TREE BE PLANTED FOR EVERY 10 SURFACE PARKING STALLS.

1. TOTAL PARKING COUNT = 261 SPACES
2. DIVIDED BY 10 = 26 TREES REQUIRED
3. 26 TREES PROVIDED

114+ TREES INCLUDE:

1. 8 OVERSTORY TREES - GENERAL LANDSCAPE REQUIREMENT
2. 75+ QUALITY EXISTING TREES RETAINED
3. 26 OVERSTORY TREES - PARKING LOT REQUIREMENT
4. 5 OVERSTORY TREES - ARMSTRONG BLVD FRONTAGE REQUIREMENT

120 SHRUBS/PERENNIALS INCLUDE:

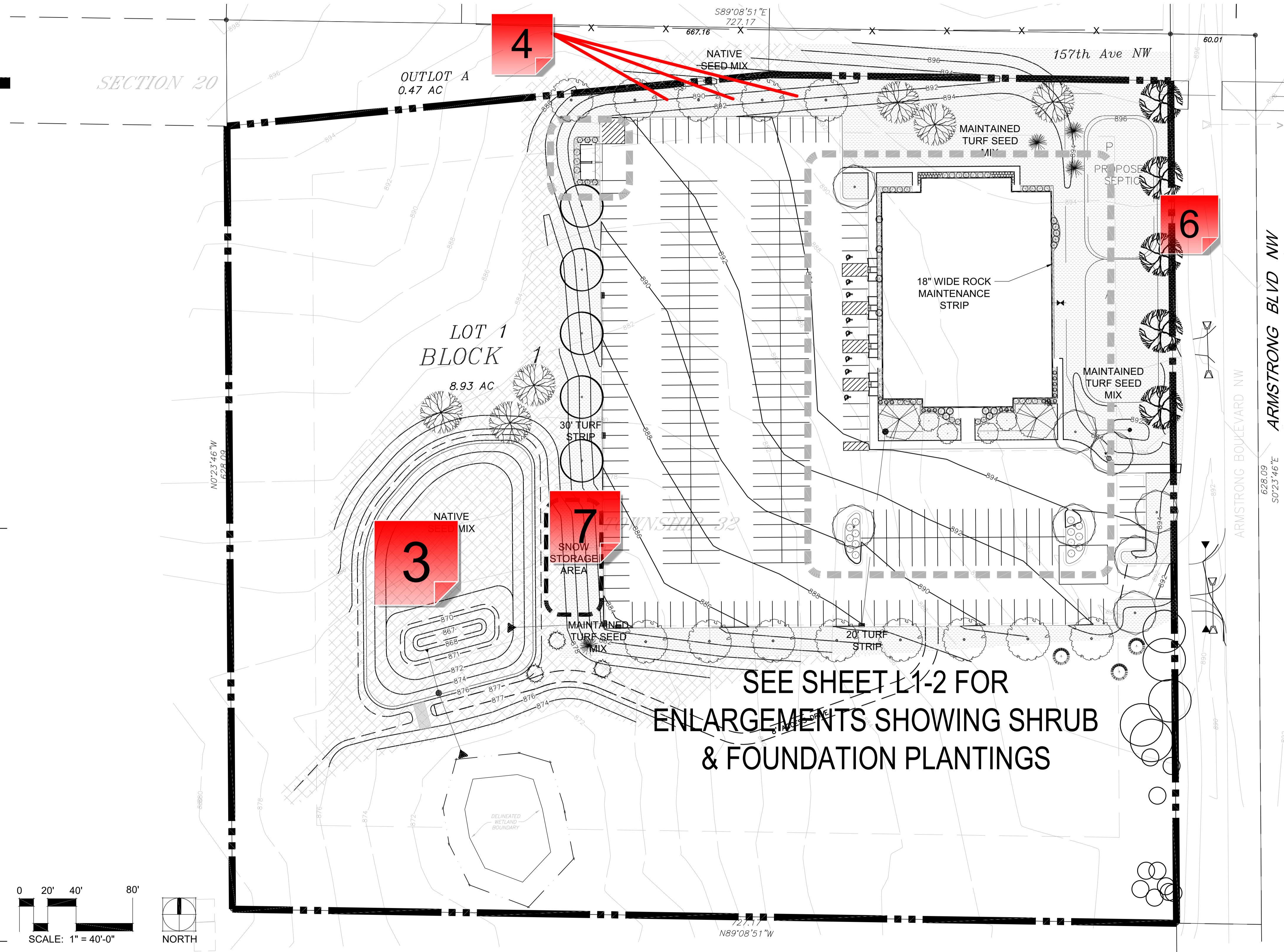
1. 48 DECIDUOUS SHRUBS
2. 18 CONIFEROUS SHRUBS
3. 18 ORNAMENTAL GRASSES
4. 36 PERENNIALS

TREES WILL BE PLANTED AT THE MINIMUM SIZES AS SHOWN ON THE PLANT SCHEDULE. PROPOSED MINIMUM SIZES ARE:

1. 2.0" CAL. FOR DECIDUOUS TREES
2. 1.5" CAL. FOR ORNAMENTAL TREES
3. 6' HEIGHT FOR CONIFEROUS TREES

DECIDUOUS OVERSTORY TREES:		CONIFEROUS TREES:	
	SWAMP WHITE OAK Quercus bicolor 13 = Quantity @ 2" Caliper		CLUMP RIVER BIRCH Betula nigra 'Clump' 6 = Quantity @ 12' Height
	PRINCETON ELM Ulmus americana 'Princeton' 5 = Quantity @ 2" Caliper		BOULEVARD LINDEN Tilia americana 'Boulevard' 5 = Quantity @ 2" Caliper
	FALL FIESTA MAPLE Acer sacharum 'Bailista' 2 = Quantity @ 2" Caliper		HACKBERRY Celtis occidentalis 8 = Quantity @ 2" Caliper
			BLACK HILLS SPRUCE 3 = Quantity @ 5' Height
			COLORADO SPRUCE 0 = Quantity @ 6' Height
			AUSTRIAN PINE 3 = Quantity @ 5' Height
			SCOTCH PINE 3 = Quantity @ 6' Height

TREE PLANTING KEY:



SEE SHEET L1-2 FOR ENLARGEMENTS SHOWING SHRUB & FOUNDATION PLANTINGS

TREE PLANTING DETAILS:

TREE PLANTING PLAN:

1 - Colorado Spruce

Created by: Chris Anderson
On: 06/24/2024 11:42 AM

If there are none of this species proposed to be planted, please eliminate from the Planting Key

----- 0 Replies -----

2 - Evergreen Size

Created by: Chris Anderson
On: 06/24/2024 11:46 AM

Please revise the minimum height for both Black Hills Spruce and Austrian Pine to be at least six (6) feet.

----- 0 Replies -----

3 - Native Seed Maintenance

Created by: Chris Anderson
On: 06/25/2024 09:17 AM

A 3-5 year maintenance plan needs to be prepared and submitted. This should provide clear, step by step instructions for the property owner to conduct the necessary maintenance to ensure the native seeding gets established.

----- 0 Replies -----

4 - Screening

Created by: Chris Anderson
On: 06/25/2024 09:24 AM

Please consider adding taller growing evergreen shrubs in between these trees to provide some screening of headlights from shining into the adjacent residential property. An alternative to plantings, a privacy fence could also be installed.

----- 0 Replies -----

5 - Evergreen Plantings

Created by: Chris Anderson
On: 06/25/2024 09:26 AM

Please increase the number of evergreen trees to be installed. At least 25% of the plantings shall consist of evergreen trees. A minimum of twelve (12) evergreens need to be planted (48 x 25% = 12).

----- 0 Replies -----

6 - Proximity to Septic

Created by: Chris Anderson
On: 06/25/2024 09:32 AM

Will these trees create any conflicts with the proposed drainfield area?

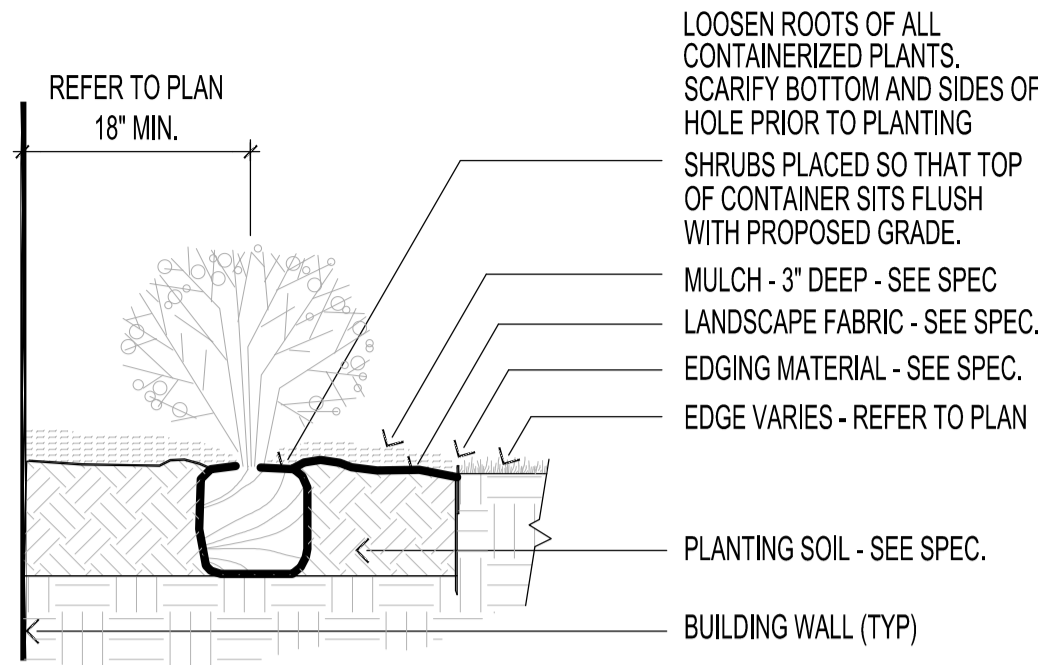
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7 - Snow Storage

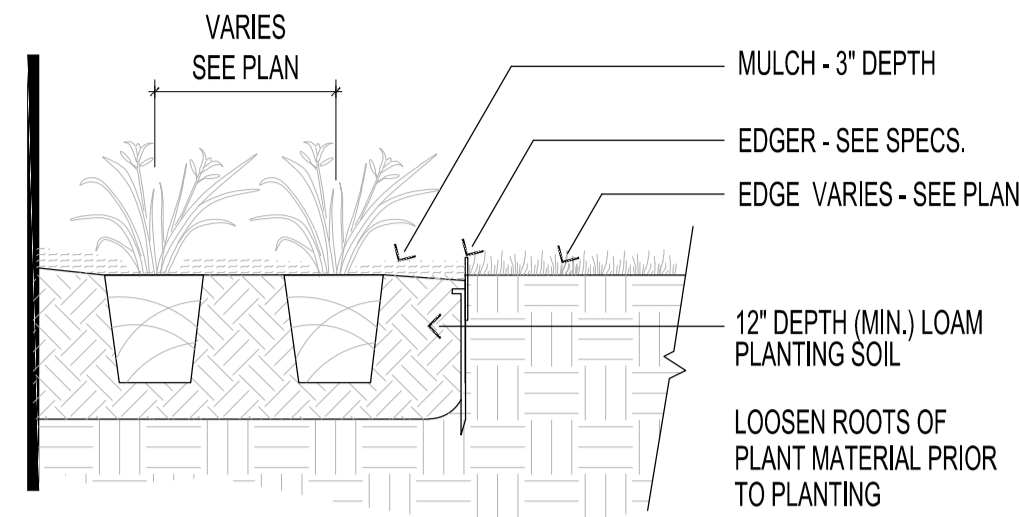
Created by: Chris Anderson
On: 06/25/2024 09:33 AM

Is this sufficient area for snow storage for this size parking lot?

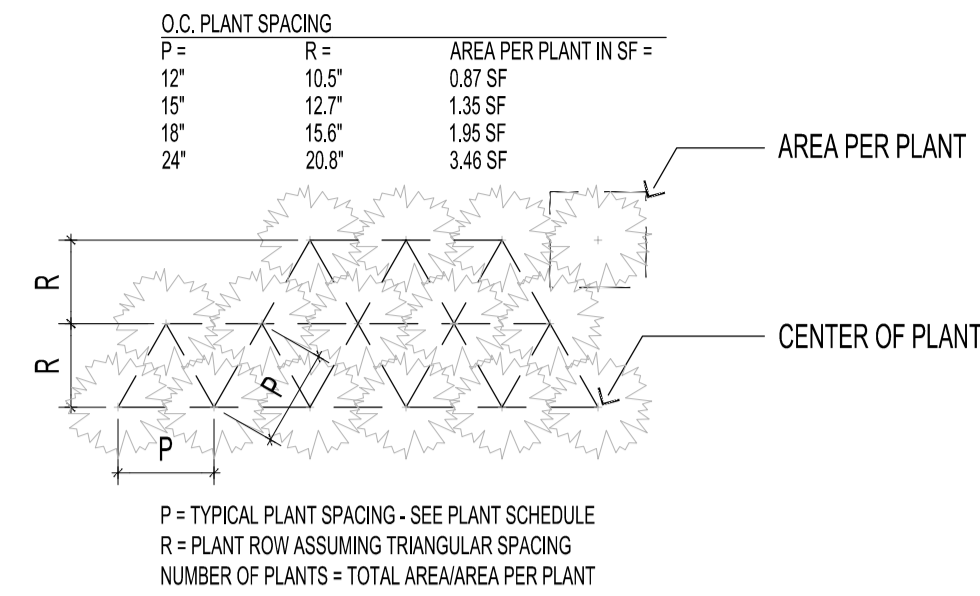
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1
L1-2
SHRUB PLANTING DETAIL
SCALE: 3/4" = 1'-0"



2
L1-2
PERENNIAL PLANTING
SCALE: 3/4" = 1'-0"



3
L1-2
PERENNIAL SPACING GUIDELINES
SCALE: 3/4" = 1'-0"

SYM	QTY	COMMON NAME	SCIENTIFIC NAME	SIZE	CONT	COMMENTS
DECIDUOUS SHRUBS						
ALP	7	ALPINE CURRANT	Ribes alpinum	3 GAL	POT	5' O.C.
ANH	8	ANNABELLE HYDRANGEA	Hydrangea arborescens 'Annabelle'	3 GAL	POT	5' O.C.
AWS	4	ANTHONY WATERER SPIREA	Spirea x bumalda 'Anthony Waterer'	3 GAL	POT	5' O.C.
DBH	14	DWARF BUSH-HONEYSUCKLE	Diervilla lonicera	3 GAL	POT	5' O.C.
MKL	8	MISS KIM LILAC	Syring patula 'Miss Kim'	3 GAL	POT	5' O.C.
RTD	6	ARCTIC FIRE RED DOGWOOD	Cornus stolonifera 'Farrow'	3 GAL	POT	5' O.C.
CONIFEROUS SHRUBS						
DFJ	4	DAUB'S FROSTED JUNIPER	Juniperus chinensis 'Daub's Frosted'	5 GAL	POT	5' O.C.
SGJ	3	SEA GREEN JUNIPER	Juniperus chinensis 'SeaGreen'	5 GAL	POT	5' O.C.
TYE	5	TAUNTON YEW	Taxus x media 'Taunton'	5 GAL	POT	5' O.C.
ORNAMENTAL GRASSES						
KFG	18	KARL FOERSTER GRASS	Calamagrostis x acutiflora 'Karl Foerster'	1 GAL	POT	3' O.C.
PERENNIALS						
OST	36	OSTRICH FERN	Matteuccia struthiopteris	1 GAL	POT	3' O.C.

PLANTING SCHEDULE:

PLANTING DETAILS:

GRAPHIC	MATERIAL	SPECIFICATION	NOTES
	ROCK MULCH	1.5" DIAMETER GRANITE RIVER ROCK MULCH	3" DEPTH
	TURF SEED	MN/DOT SEED MIX #25-121 MAINTAINED TURF FOR SANDY SOILS	61 LBS/ACRE
	NATIVE SEED	MN/DOT SEED MIX #33-261 STORMWATER BASINS	40 LBS/ACRE

GROUND COVER SCHEDULE:

PLANT SELECTIONS:
SUBSTITUTIONS WILL BE CONSIDERED ONLY IF REQUESTED PRIOR TO BIDDING OF THE PROJECT. THE CONTRACTOR SHALL VERIFY AVAILABILITY OF THE SPECIFIED MATERIALS AND INFORM THE LANDSCAPE ARCHITECT OF ANY CONCERNS PRIOR TO SUBMITTING A BID.

ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE NURSERY STOCK STANDARDS AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA).

UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED SHRUB HEIGHT. ORNAMENTAL TREES SHALL HAVE NO Y CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE THE ROOT FLARE. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE THE ROOT FLARE.

ANY CONIFEROUS TREE PREVIOUSLY PRUNED FOR CHRISTMAS TREE SALES SHALL NOT BE USED. ALL CONIFEROUS TREES SHALL HAVE A FULL, NATURAL FORM CONSISTENT WITH THE SPECIES.

THE LANDSCAPE PLAN TAKES PRECEDENCE OVER THE PLANT SCHEDULE IF ANY DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.

STORAGE OF PLANTS ON CONSTRUCTION SITE:
PLANTS SHALL NOT BE STORED ON SITE FOR EXTENDED TIME PERIODS. IF PLANTINGS CANNOT BE PLACED IN THE GROUND, AND WELL WATERED THAT SAME DAY, THE PLANTINGS SHALL HAVE MOIST MULCH COVERING THE ROOTS AT ALL TIMES.

PLANTING INSTRUCTIONS:
ALL PLANTINGS SHALL BE INSTALLED PER THE PLANTING DETAILS AS SHOWN IN THESE CONSTRUCTION DOCUMENTS. PARTICULAR ATTENTION WILL BE PAID TO OVERSIZING THE PLANTING HOLE AND CREATION OF A WATERING WELL TO ALLOW SOAKING OF THE PLANTING BACKFILL FOR EACH PLANTING.

EDGING AND MAINTENANCE STRIPS:
BLACK POWDER COATED STEEL EDGER TO BE USED TO CONTAIN SHRUBS AND MAINTENANCE STRIP AREAS. MAINTENANCE STRIPS SHALL HAVE EDGER AND MULCH AS SPECIFIED OR AS INDICATED ON DRAWINGS.

MULCHING:
A 3" DEPTH OF RIVER ROCK MULCH SHALL BE CLEAN AND FREE OF ANY SIGNIFICANT DIRT, SOIL, OR ORGANIC MATTER THAT WILL PROMOTE WEED GROWTH. HIGH QUALITY GEOTEXTILE FABRIC, WITH EDGES OVERLAPPED AT LEAST 12", SHALL BE PLACED UNDER ALL ROCK MULCH.

ALL TREES SHALL HAVE A MULCH RING (MINIMUM 48" DIAMETER) OF 4" DEEP SHREDDED HARDWOOD MULCH WITH NONE IN DIRECT CONTACT WITH TREE TRUNK.

STAKING:
STAKING OF THE TREES IS OPTIONAL, BUT THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CORRECTING ANY TREES THAT FALL OUT OF PLUMB DURING THE WARRANTY PERIOD.

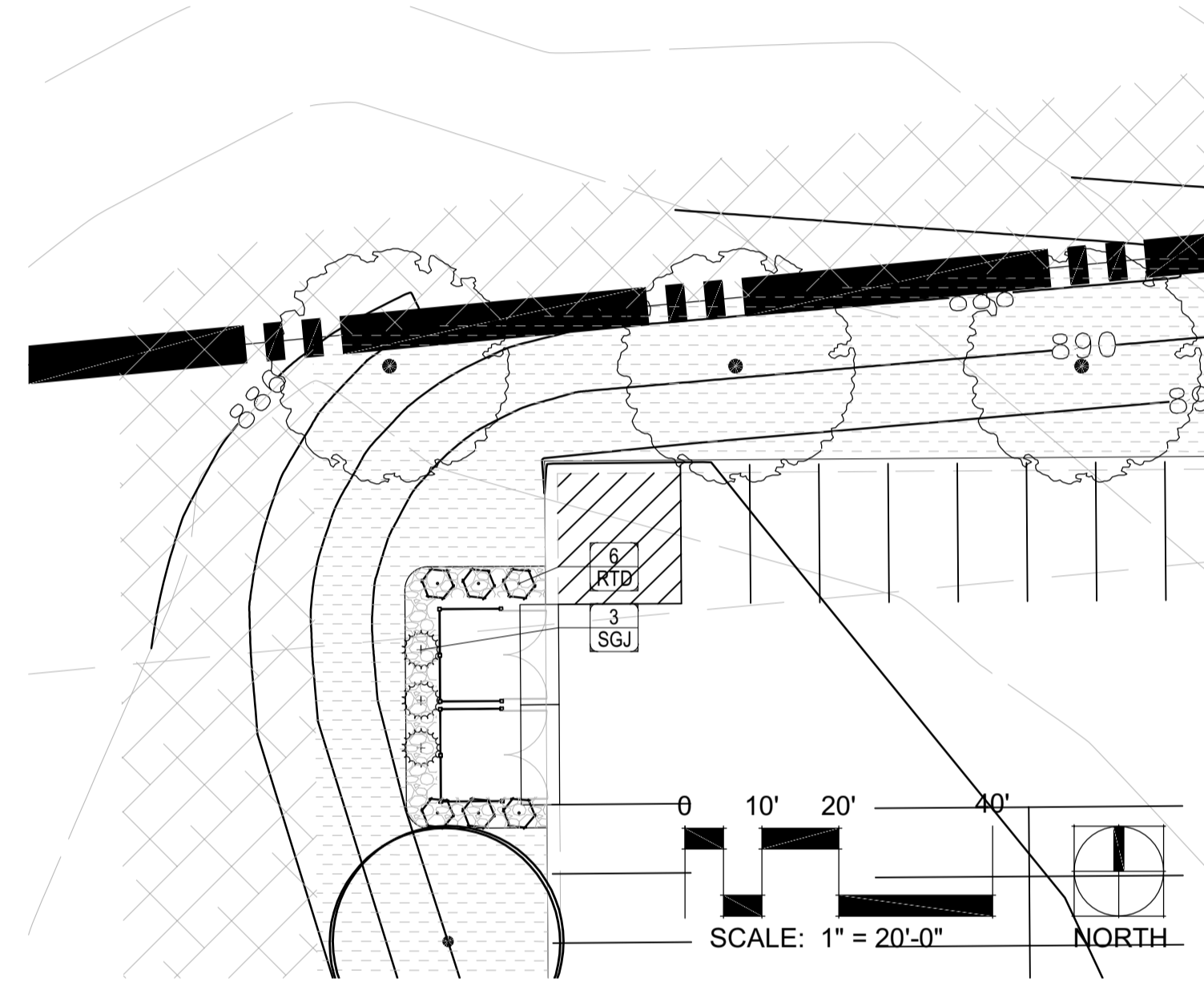
REMOVAL OF TAGGING:
ALL TAGGING AND PLANT LABELS SHALL BE REMOVED AFTER PLANTING. BALLED AND BURLAPPED PLANTINGS SHALL HAVE ANY ROPE REMOVED FROM THE TRUCK AND THE TOP OF THE WIRE CAGE REMOVED FROM THE BALL AFTER PLACEMENT IN THE PLANTING PIT.

WARRANTY PERIOD:
ALL PLANTING SHALL BE COVERED BY A ONE YEAR WARRANTY PERIOD TO COVER REPLACEMENT OF ANY PLANTINGS THAT HAVE DIED OR ARE SHOWING OBVIOUS SIGNS OF STRESS AT THE WARRANTY INSPECTION. REPLACEMENT OF ANY FAILED PLANTINGS INCLUDES RE-ESTABLISHING CLEAN MULCH AROUND ANY REMOVALS AND OFF-SITE DISPOSAL OF ANY MATERIALS.

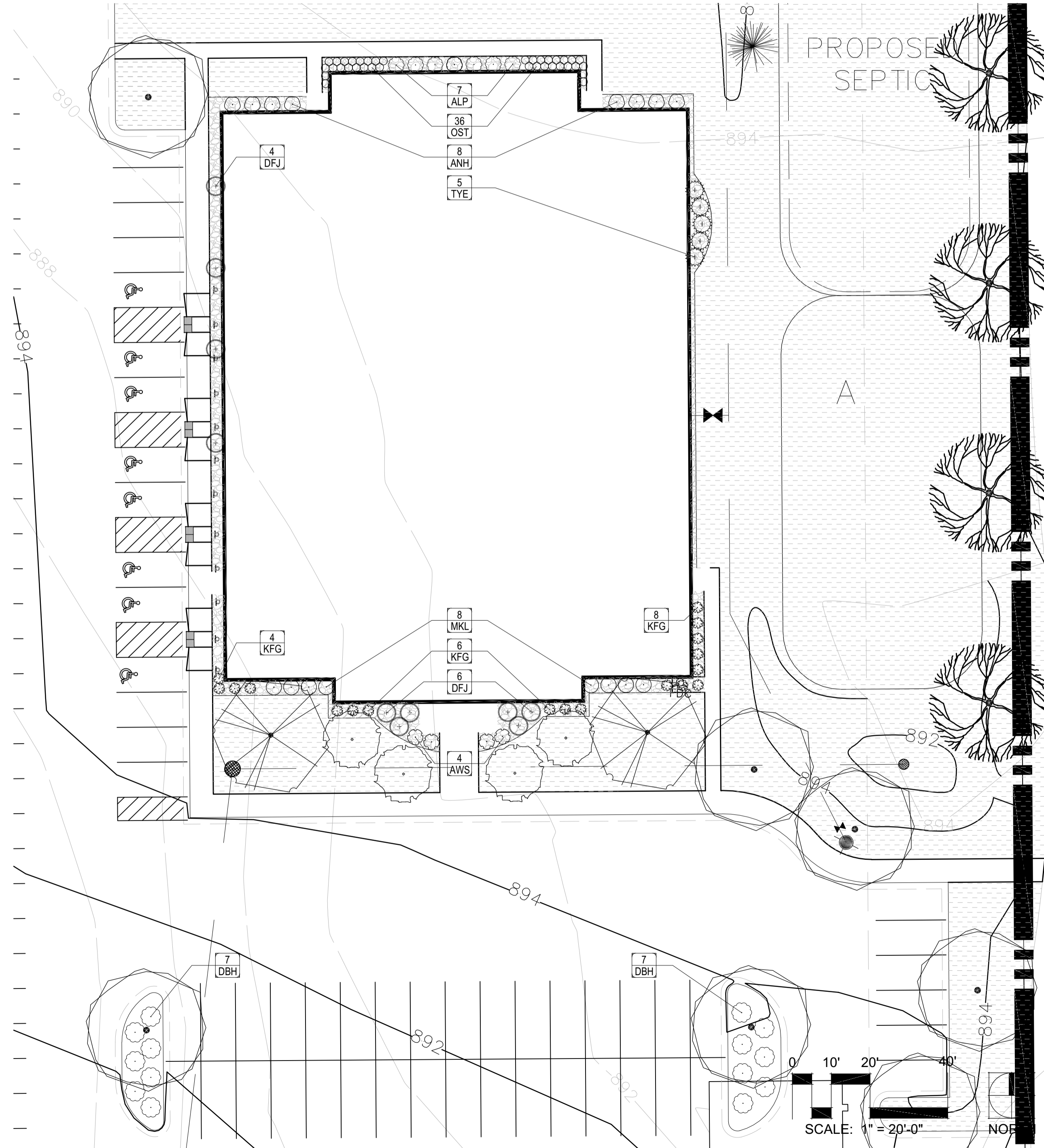
IRRIGATION:
IRRIGATION IS NOT PROPOSED ON THIS PROPERTY.

MAINTAINED TURF:
ALL FUTURE CLOSELY MOWN AREAS SHALL BE SEEDED USING THE SEED MIXES AS NOTED ON THE PLAN.

~~WARRANTY PERIOD:
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GARBAGE AREA ENLARGEMENT:



FOUNDATION PLANTING PLAN AND DETAILS

PLANTING NOTES:

2

3

4

This is a repeat of language above

1 - Shrub Size

Created by: Chris Anderson
On: 06/25/2024 09:08 AM

Please revise planting schedule table to specify the minimum shrub size as 24" in height at time of installation.

----- 0 Replies -----

2 - Warranty Period

Created by: Chris Anderson
On: 06/25/2024 09:12 AM

The City's Development Agreement will require a 2-year warranty period beginning upon a passing Landscape Insepction.

----- 0 Replies -----

3 - Watering

Created by: Chris Anderson
On: 06/25/2024 09:13 AM

If irrigation is not proposed, who will be responsible for watering all the new plantings? Please modify the plans to include a watering schedule for at least the first two years after planting.

----- 0 Replies -----

4 - Turf Establishment

Created by: Chris Anderson
On: 06/25/2024 09:29 AM

Without irrigation, how will the turf seeding be established? Please provide clear and thorough instructions for the property owner to ensure proper establishment of turf grass.

----- 0 Replies -----