

**OLATHE TREE PRESERVATION**

Tree Preservation (Per UDO 18.30.240)  
Protected Tree Designations: A significant tree means a tree of eight (8) inches or greater, as measured four and one-half (4½) feet above the ground, for all tree species except for non-native invasive species. The applicant may omit trees that are not considered significant from the tree survey.

Required: 30% significant trees preserved (up to 90% of significant trees mitigated) for nonresidential use  
Provided: Total Existing: 718 cal. in. @ 30% = 215 cal. in. to be preserved/mitigated  
Existing to be preserved: 668 cal. in. (93%)

**EXISTING PLANT LEGEND**

SYMBOL	BOTANICAL / COMMON NAME
	Existing Conifer Tree to Remain
	Existing Deciduous Tree to Remain
	Existing Deciduous Tree to be Removed
	Existing Shrub to be Removed
	Existing Shrub to be Removed

1	04/20/20	City Comments
2	10/14/20	City Comments
NO	DATE	REVISION
DRAWN BY	CHECKED BY	
NS	NS	

## OLATHE LANDSCAPE CALCULATIONS

### Street Trees (Per UDO 18.30.130.G)

Required: 1 tree / 40' street frontage, excluding arterial and minor arterial streets where perimeter landscaping is required

Provided: Shadow Ridge Drive: 437 LF / 40 = 11 Trees  
Lot 1: 171 LF / 40 = 4 Trees  
Lot 4: 106 LF / 40 = 3 Trees  
Lot 5: 160 LF / 40 = 4 Trees  
Private Drive: 625 LF / 40 = 15 Trees  
Lot 1: 297 LF / 40 = 7 Trees  
Lot 3: 252 LF / 40 = 6 Trees  
Lot 4: 66 LF / 40 = 2 Trees

### Landscaping along Arterial/Collector Streets (Per UDO 18.30.130.H)

Required: Along property zoned R-1 through R-4 adjacent to an arterial street  
Provided: N/A

### Screening (Per UDO 18.30.130.I)

Required: All exterior-mounted equipment and trash screened from public view  
Provided: As required

### Buffer (Per UDO 18.30.130.J)

Required: Type 1: 10' width buffer = 1 shade, 1 ornamental, 1 evergreen, + 20 shrubs / 100'

Provided: Type 1 buffer:

Lot 2 along east PL: 234 LF = 2 shade, 2 ornamental, 2 evergreen, 47 shrubs

### Nonresidential Landscaping (Per UDO 18.30.130.L)

Applicability: Where a street separates a nonresidential use from property zoned or designated on the Comprehensive Plan Map for nonresidential use

Required: 10' width; 1 shade or evg tree / 50' street frontage + 1 ornamental / 3 trees

Provided: Shadow Ridge Drive:  
Lot 1: 171 LF / 50 = 3 Trees + 1 ornamental  
Lot 4: 106 LF / 50 = 2 Trees + 1 ornamental  
Lot 5: 160 LF / 50 = 3 Trees + 1 ornamental  
Private Drive:

Lot 1: 297 LF / 50 = 6 Trees + 2 ornamental  
Lot 3: 252 LF / 50 = 5 Trees + 2 ornamental  
Lot 4: 66 LF / 50 = 1 Tree + 1 ornamental  
W Valley Parkway:

Lot 2: 273 LF / 50 = 6 Trees + 2 ornamental  
Lot 3: 152 LF / 50 = 3 Trees + 1 ornamental  
Lot 4: 402 LF / 50 = 8 Trees + 3 ornamentals

### K-10 Highway:

Lot 1: 945 LF / 50 = 19 Trees + 6 ornamentals  
Lot 6: 338 LF / 50 = 7 Trees + 2 ornamentals

### Parking & Vehicular Use Areas: Perimeter (Per UDO 18.30.130.M.2)

Required: cont. shrub hedge min. 3' ht. adj. to ROW

Provided: As required

### Parking & Vehicular Use Areas: Interior (Per UDO 18.30.130.M.3)

Required: 1 island / 20 parking spaces; 1 shade tree / island; landscape aisles & strips min. 10' width (20' width with pedestrian walkway); 1 tree / 30' landscape aisle/strip

Provided: Lot 1: 291 Stalls / 20 = 15 Trees  
Lot 2: 8 Stalls / 20 = 1 Tree  
Lot 3: 21 Stalls / 20 = 1 Tree  
Lot 4: 42 Stalls / 20 = 3 Trees  
Lot 5: 12 Stalls / 20 = 1 Tree  
Lot 6: 34 Stalls / 20 = 2 Trees

### Building Facade/Foundation Landscaping (Per UDO 18.30.130.O)

Applicability: Nonresidential developments. Does not apply to building facades abutting a sidewalk or the rear yard. Building facades adjacent to public ROW or a parking lot.

Required: Landscape area equivalent to 25% building facade with 75% plant coverage; shrubs must be 3' ht.; deciduous & ornamental trees incorporated where appropriate. Planting areas must have a minimum width of either six (6) feet or the equivalent of twenty (20) percent of the building facade height as measured from the ground elevation to the top of the wall or parapet, whichever is greater.

Provided: As required

## GENERAL NOTE

1. REFER TO SHEET L03 FOR LANDSCAPE DETAILS AND NOTES.

## CONCEPT PLANT SCHEDULE

### SHADE TREE

2.5" Cal. B&B  
Acer griseum / Paperbark Maple  
Celtis occidentalis / Prairie Sentinel / Prairie Sentinel Hackberry  
Ginkgo biloba / Princeton Sentry / Princeton Sentry Ginkgo  
Gleditsia triacanthos inermis / Shademaster / Shademaster Honey Locust  
Nyssa sylvatica / Wilshire / Black Gum  
Quercus robur x alba / Cincinnati TM / Crimson Spire Oak  
Zelkova serrata / City Spire TM / City Spire Zelkova

### ORNAMENTAL TREE

1.5" Cal. B&B  
Amelanchier x grandiflora / Autumn Brilliance / Autumn Brilliance Apple Serviceberry  
Cercis canadensis / Forest Pansy TM / Forest Pansy Redbud  
Magnolia grandiflora / Bracken Brown Beauty / Bracken's Beauty Southern Magnolia  
Malus x Royal Raindrops / Royal Raindrops Crabapple  
Malus x Spring Snow / Spring Snow Crab Apple  
Syringa reticulata Ivory Silk / Ivory Silk Japanese Tree Lilac

### EVERGREEN TREE

6-8" HL Min. B&B  
Juniperus virginiana / Canaletti / Canaletti Eastern Redcedar  
Juniperus virginiana / Hillspire / Hillspire Juniper  
Picea glauca / Denzette / Black Hills Spruce  
Picea omorika / Serbian Spruce  
Picea pungens / Bacheri / Bacheri Colorado Spruce  
Picea pungens / Fat Albert / Colorado Spruce  
Pinus baltica / Vandenwolf / Vandenwolf's Pyramid Pine

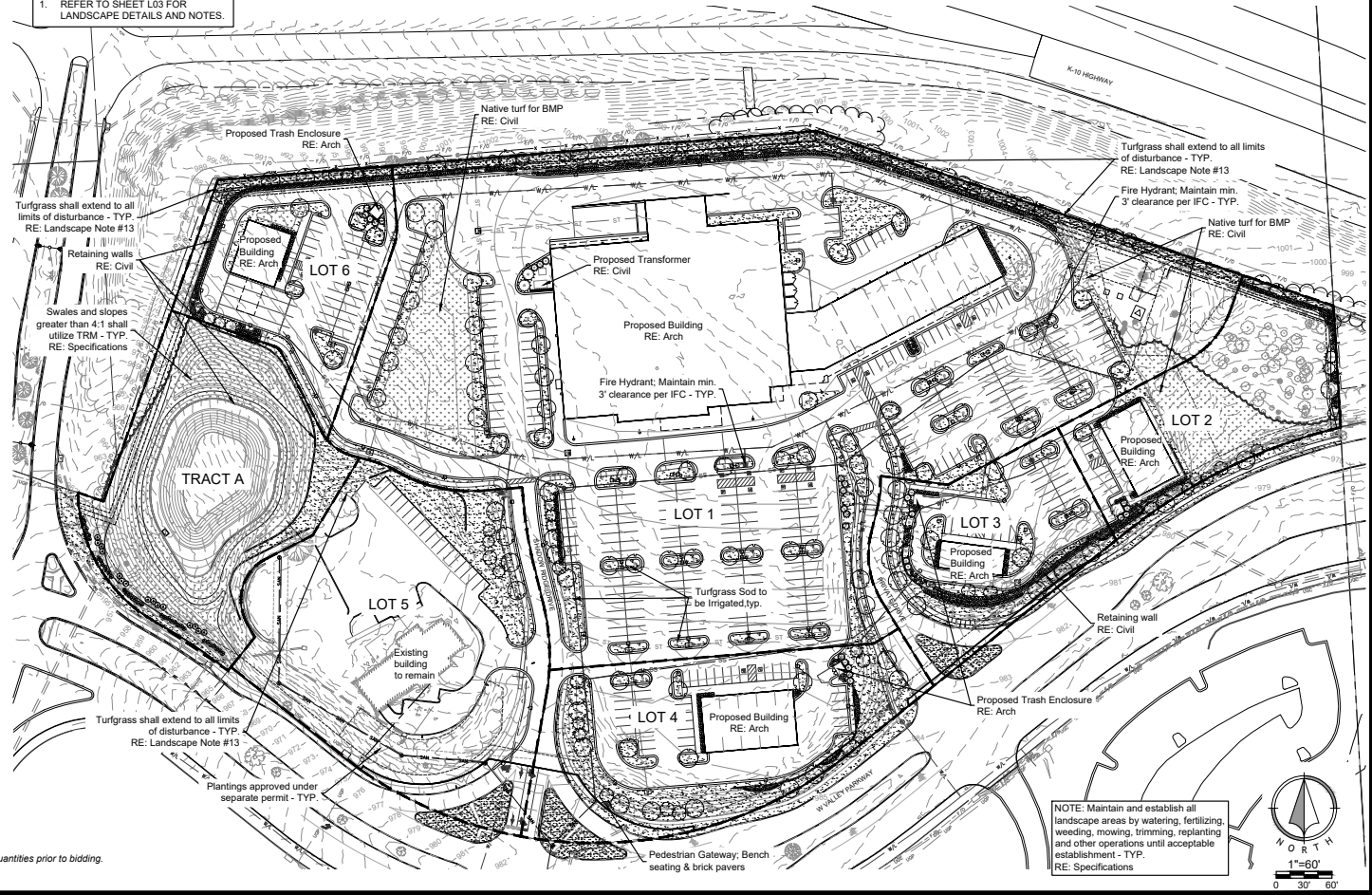
### SHRUBS AND GRASSES

3-5 Gal. 24" HL Min.  
Aronia melanocarpa / Morton TM / Inquis Beauty Black Chokeberry  
Buxus x Green Velvet / Buxus  
Celastrus coccineus / Kari Foerster / Feather Reed Grass  
Cornus stolonifera / Arctic Fire / Arctic Fire Dogwood  
Hypericum tordoum / Sunburst / Sunburst Hypericum  
Ilex virginica / Henry's Garnet / Henry's Garnet Sweetgum  
Juniperus chinensis / Gold Lace / Gold Lace Juniper  
Juniperus horizontalis / Hughes / Hughes Juniper  
Juniperus scopulorum / Skyrocket / Skyrocket Juniper  
Miscanthus sinensis / Grasslance / Maiden Grass  
Miscanthus sinensis / Morning Light / Eulalia Grass  
Panicum virgatum / Heense Herms / Heense Herms Switch Grass

### GROUND COVERS

NL Native Seed Blend / Native Seed Blend SEED  
TF Turfgrass Sod Fescue Mix, RE, Nodules / Fescue Sod SOD

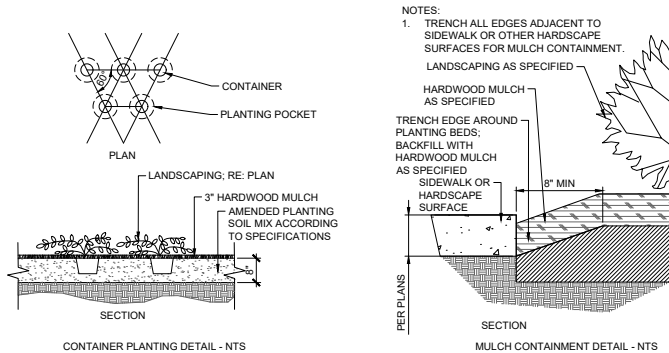
Note: Quantities shown are for reference only. Contractor shall verify all plant and turf quantities prior to bidding.



LANDSCAPE NOTES

- 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.
- CONTRACTOR SHALL STAKE ALL PLANTING AREAS IN THE FIELD PRIOR TO PLANTING FOR APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- 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.
- PLANT SYMBOLS ON LANDSCAPE PLAN ARE SHOWN AT FULL MATURE SIZE. ACTUAL PLANT SIZES AT INSTALLATION MAY BE SMALLER AND SHALL BE THE MINIMUM PLANTING SIZE SPECIFIED IN PLANT SCHEDULE.
- ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY AND SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 THE 'AMERICAN STANDARD FOR NURSERY STOCK'.
- ALL PLANTING BEDS & NATIVE GRASS STANDS SHALL BE EDGED AS SHOWN IN PLAN.
- PREPARE PLANTING BEDS AND INCORPORATE AMENDMENTS ACCORDING TO PLANS.
- 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.
- ALL TREES SHALL BE STAKED PER DETAIL.
- ALL PLANT MATERIAL SHALL BE INSTALLED TO ALLOW A ONE FOOT (1') CLEARANCE BETWEEN PLANT AND ADJACENT PAVEMENT.
- 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.
- THE LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE GRADES AND CONDITION OF SITE PRIOR TO SODDING/SEEDING OPERATIONS.
- ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED FOR OTHER PLANTINGS OR HARDSCAPE SHALL BE SODDED WITH TURF TYPE FESCUE.
- ALL LANDSCAPE AREAS SHALL BE IRRIGATED. TURF AREAS SHALL BE IRRIGATED BY SPRAY OR ROTOR. PLANT BEDS SHALL BE IRRIGATED BY DRIP IRRIGATION. IRRIGATION SYSTEM SHALL INCLUDE AUTOMATIC RAIN-SENSOR DEVICE. IRRIGATION SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL DECORATIVE GRAVEL SHALL BE INSTALLED OVER GEOTEXTILE FABRIC (MIRAFI 140N OR APPROVED EQUAL).

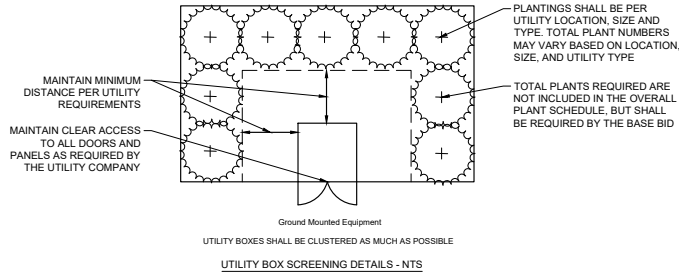
IN THE EVENT OF WORK IN OR ON THE JCW SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF AND SHALL BE REPLACED BY THE PROPERTY OWNER AS REQUIRED BY THE CITY.



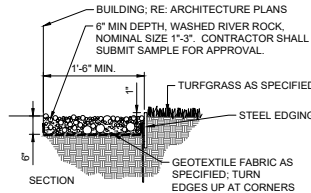
CONTAINER PLANTING DETAIL - NTS

MULCH CONTAINMENT DETAIL - NTS

NOTE: FINAL SCHEDULE OF PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

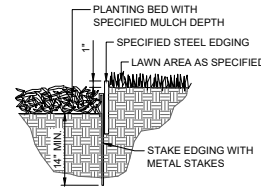


UTILITY BOX SCREENING DETAILS - NTS



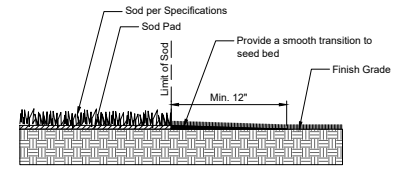
- NOTES:
- SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
  - EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR AND FLUSH WITH TOP OF CONCRETE
  - ALL JOINTS SHALL BE SECURELY STAKED
  - CONTRACTOR SHALL CUT TOP EDGES AS NEEDED TO BE PARALLEL WITH GRADE.
  - ALL GRAVEL SHALL BE INSTALLED OVER A GEOTEXTILE FABRIC (MIRAFI 140N OR APPROVED EQUAL).
  - GRAVEL SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. FILTER FABRIC SHALL NOT BE VISIBLE AFTER GRAVEL INSTALLATION.

MOW EDGE DETAIL - NTS



- NOTES:
- EDGING PER SPECIFICATIONS. SET ALL EDGING 1" ABOVE FINISH GRADE (TURF) SURFACE AS SHOWN.
  - EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR AND FLUSH WITH TOP OF CONCRETE.
  - ALL JOINTS SHALL BE SECURELY STAKED.
  - FINISH SHALL BE POWDER COAT. COLOR: GREEN. CONTRACTOR SHALL SUBMIT COLOR SAMPLE TO OWNERS REPRESENTATIVE PRIOR TO PURCHASE.
  - CONTRACTOR SHALL LOCATE AND MARK ALL PLANT BED LOCATIONS PRIOR TO INSTALLATION OF STEEL FOR FINAL APPROVAL BY OWNER OR LANDSCAPE ARCHITECT.

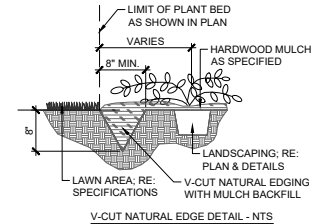
STEEL EDGING DETAIL - NTS



- NOTES:
- CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM SODDED AREAS TO SEEDED AREAS.

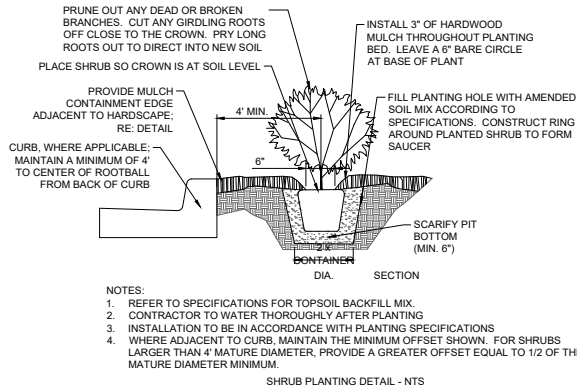
SEED TO SOD TRANSITION DETAIL

- NOTES:
- CONTRACTOR SHALL LOCATE AND MARK ALL PLANT BED LOCATIONS PRIOR TO EXCAVATING FOR FINAL APPROVAL BY OWNER OR LANDSCAPE ARCHITECT.
  - TRANSITION TO MULCH CONTAINMENT DETAIL AT ALL LOCATIONS ADJACENT TO CURBS & SIDEWALKS. RE: DETAIL, THIS SHEET.
  - CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO TRENCHING OR LANDSCAPE INSTALLATION.



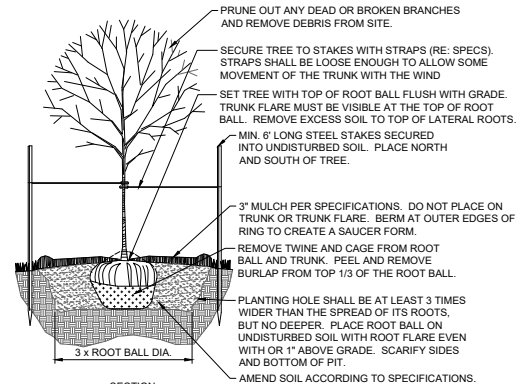
V-CUT NATURAL EDGE DETAIL - NTS

- NOTES:
- TREES THAT DO NOT MEET THE SIZE REQUIREMENT WILL BE REJECTED
  - TREES SHALL BE INSPECTED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.



- NOTES:
- REFER TO SPECIFICATIONS FOR TOPSOIL BACKFILL MIX.
  - CONTRACTOR TO WATER THOROUGHLY AFTER PLANTING
  - INSTALLATION TO BE IN ACCORDANCE WITH PLANTING SPECIFICATIONS
  - 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



DECIDUOUS TREE PLANTING DETAIL - NTS