



PLANT SCHEDULE PARKING LOT E

| TREES | CODE | BOTANICAL NAME / COMMON NAME | CAL | CONT | HGT | QTY |
|-------|------|--|------------|------|-------|-----|
| AG | AG | AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / SERVICEBERRY | MULTI-STEM | B+B | 6 FT. | 6 |
| CO | CO | CELTIS OCCIDENTALIS / COMMON HACKBERRY | 3" CAL | B+B | | 4 |
| CC | CC | CERCIS CANADENSIS / EASTERN REDBUD MULTI-TRUNK | MULTI-STEM | B+B | 8 FT. | 14 |
| CCA | CCA | CERCIS CANADENSIS 'ALBA' / WHITE EASTERN RED BUD | MULTI-STEM | B+B | 8 FT. | 7 |
| CFL | CFL | CORNUS FLORIDA / EASTERN DOGWOOD | MULTI-STEM | B+B | 8 FT. | 10 |
| NS | NS | NYSSA SYLVATICA / SOUR GUM | 3" CAL | | | 7 |
| PE | PE | PINUS ECHINATA / SHORT LEAF PINE | N/A | B+B | 8' | 16 |
| QA | QA | QUERCUS ALBA / WHITE OAK | 3" CAL | | | 8 |
| QM | QM | QUERCUS MUEHLENBERGII / CHINKAPIN OAK | 3" CAL | B+B | | 4 |
| QR | QR | QUERCUS RUBRA / RED OAK | 3" CAL | B+B | | 12 |
| TD | TD | TAXODIUM DISTICHUM / BALD CYPRESS | 3" CAL | B+B | | 11 |

| SHRUBS | CODE | BOTANICAL NAME / COMMON NAME | CONT | QTY |
|--------|------|--|-------|-----|
| | AP | AESCULUS PARVIFLORA / BOTTLEBRUSH BUCKEYE | 5 GAL | 37 |
| | HQ | HYDRANGEA QUERCIFOLIA / OAKLEAF HYDRANGEA | 5 GAL | 47 |
| | ID | ILEX DECIDUA / POSSUMHAW HOLLY | 5 GAL | 76 |
| | RA | RHUS AROMATICA / FRAGRANT SUMAC | 3 GAL | 10 |
| | VM | VIBURNUM DENTATUM 'BLUE MUFFIN' / SOUTHERN ARROWWOOD | 5 GAL | 52 |

PLUG AREA PLANTINGS

| PLUG AREA | PLANTING | CONT | QTY |
|--------------------------|--|------------------|---------------------------------|
| LAWN | BOUTELOUA DACTYLOIDES / BUFFALO GRASS | PLUGS (12" O.C.) | 16,284 SF |
| NATIVE PERENNIAL MIX "A" | ASCLEPIAS TUBEROSA / BUTTERFLYWEED COREOPSIS LANCEOLATA / LANCELEAF COREOPSIS ECHINACEA PALLIDA / PALE CONEFLOWER SCHIZACHYRIUM SCOPARIUM THE BLUES / LITTLE BLUESTEM SPOROBOLOUS HETEROLEPIS / PRAIRIE DROPSIDE | PLUGS (24" O.C.) | 264 264 264 705 264 |

BIO-RETENTION BASIN SEED MIX

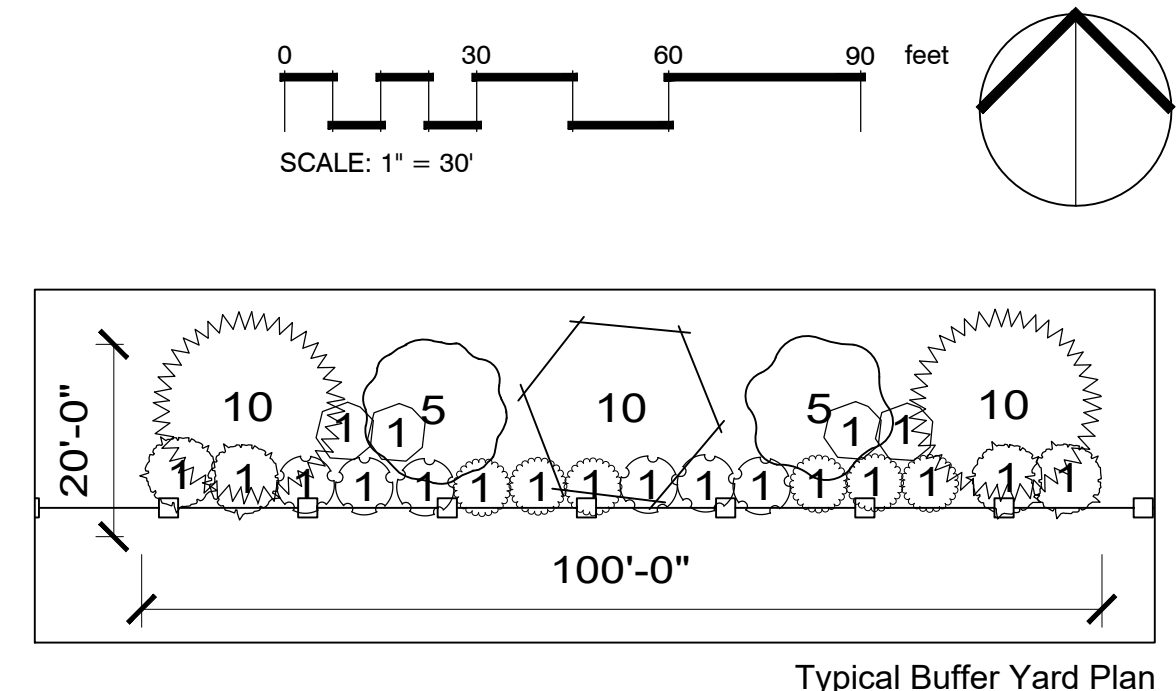
| Type | Botanical Name | Common Name | Seeds/Oz. | Oz. / Acre | Seeds/Sqft |
|-------|---------------------|-----------------------|-----------|------------|------------|
| Grass | Andropogon gerardii | Big bluestem grass | 8,188 | 6.40 | 1.20 |
| Grass | Elymus canadensis | Canada Wild Rye | 4,258 | 32.00 | 3.13 |
| Grass | Elymus virginicus | Virginia Wild Rye | 4,375 | 16.00 | 1.61 |
| Grass | Panicum virgatum | Switch Grass | 28,356 | 10.00 | 6.51 |
| Grass | Sorghastrum nutans | Indian grass | 8,516 | 6.40 | 1.25 |
| Sedge | Carex bebbii | Bebbs Oval Sedge | 100,000 | 2.00 | 4.59 |
| Sedge | Carex frankii | Bristly Cattail Sedge | 31,250 | 16.00 | 11.48 |
| Sedge | Carex vulpinoidea | Brown Fox Sedge | 125,000 | 2.00 | 5.74 |
| Rush | Juncus effusus | Common Rush | 281,000 | 1.00 | 6.45 |

LOW PROFILE PRAIRIE SEED MIX

| Type | Botanical Name | Common Name | Seeds/Oz. | Oz. / Acre | Seeds/Sqft |
|-------|--------------------------|--------------------------|-----------|------------|------------|
| Grass | Bouteloua curtipendula | Side-oats Grama | 9,375 | 36.00 | 7.75 |
| Grass | Bouteloua gracilis | Blue Grama | 40,000 | 9.00 | 8.26 |
| Grass | Andropogon scoparius | Little Bluestem | 8,800 | 36.00 | 7.37 |
| Forb | Lespedeza capitata | Roundhead Lespedeza | 10,000 | 5.00 | 1.15 |
| Forb | Amorpha canescens | Lead Plant | 17,000 | 5.00 | 1.95 |
| Forb | Desmanthus illinoensis | Illinois Butterflyweeder | 4,888 | 20.00 | 2.24 |
| Forb | Baptisia australis | Blue Wild Indigo | 1,600 | 4.00 | 0.15 |
| Forb | Asclepias tuberosa | Butterfly Milkweed | 3,500 | 5.50 | 0.44 |
| Forb | Cassia fasciculata | Partridge Pea | 3,800 | 24.00 | 2.09 |
| Forb | Coreopsis lanceolata | Lanceleaf Coreopsis | 13,500 | 15.00 | 4.30 |
| Forb | Coreopsis tinctoria | Plains Coreopsis | 87,500 | 4.00 | 8.03 |
| Forb | Liatris pycnostachya | Prairie Blazing Star | 10,750 | 2.00 | 0.49 |
| Forb | Desmodium canadense | Showy Tick Trefol | 4,500 | 8.00 | 0.83 |
| Forb | Echinacea purpurea | Purple Coneflower | 6,600 | 10.00 | 3.03 |
| Forb | Zizia aurea | Golden Alexander | 12,000 | 6.00 | 1.65 |
| Forb | Ratibida pinnata | Grayheaded Coneflower | 25,250 | 6.00 | 3.48 |
| Forb | Rudbeckia subtomentosa | Sweet Black-eyed Susan | 46,000 | 1.50 | 1.58 |
| Forb | Gallardia aristata | Blanket Flower | 11,625 | 10.00 | 2.67 |
| Forb | Verbena stricta | Hairy Vernain | 31,000 | 3.00 | 2.20 |
| Forb | Monarda fistulosa | Wild Bergamot | 78,000 | 2.00 | 3.58 |
| Forb | Parthenium integrifolium | Wild Quinine | 6,800 | 6.00 | 0.94 |
| Forb | Penstemon digitalis | Foxglove Beard Tongue | 15,000 | 2.00 | 3.28 |
| Forb | Petalostemum candidum | White Prairie Clover | 26,250 | 6.00 | 1.62 |
| Forb | Dalea purpurea | Purple Prairie Clover | 20,000 | 9.00 | 4.13 |
| Forb | Pycnanthemum tenuifolium | Slender Mountain Mint | 375,000 | 0.75 | 6.46 |
| Forb | Tradescantia ohioensis | Common Spiderwort | 8,000 | 1.50 | 0.28 |
| Forb | Rudbeckia hirta | Black-eyed Susan | 110,000 | 5.00 | 12.63 |

- TREE PRESERVATION CALCULATIONS:**
- (1) tree for every 3,000 sq. ft. of open space per code section 402.090
 - Approximate project open space (based on grading limits): 208,352 sq. ft.
 - 208,352 sq. ft. / 3,000 sq. ft. = 69 trees required (99 provided)
 - Replace trees at a rate of 15 per acre per code section 402.040.A
 - Approximate project area (based on grading limits): 4.783 acres.
 - 4.783 acres X 15 = 72 trees required. (99 provided)
 - 172 trees removed (12" caliper or greater)
 - 25 trees preserved
 - Tree Canopy Area Coverage for Current Project Area
 - Existing Project Site Area = 208,352 SF
 - Existing Canopy Area = 206,268 SF (~99% of Project Site Area)
 - Preserved Canopy Area = ~2,700 SF
 - Total Percentage of Tree Canopy Area Preserved = ~1.3%

- BUFFER YARD CALCULATIONS:**
- Buffer yard option #1 for commercial zoning districts used. (includes (2) plant units, a sight-proof six foot high fence or wall, within a minimum 20 foot wide buffer yard area) per code section 402.180.C.2.a
 - Each 100' length of buffer yard contains at least 60 points towards plant unit requirements.
 - Standard Plant Unit calculation for 60 points along every 100' length of buffer yard is as follows:
 - (2) Evergreen trees 6'-8" tall = 20 pts.
 - (1) Deciduous canopy tree 2.5" caliper = 10 pts.
 - (2) Ornamental deciduous trees 1.5" caliper = 30 pts.
 - (20) Shrubs 18"-24" tall = 20 pts.
 - Plant Unit calculations per code section 402.020 definition for "Plant Unit".
 - (7) existing trees within the buffer yard area are to be preserved. 5 points for every caliper inch of existing tree to be preserved is credited per code section 402.180.D.1



LANDSCAPE NOTES:

- All proposed landscape shall be irrigated by an automatic underground irrigation system.

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CERTIFICATE
OF AUTHORITY #LC128925

CONSULTANT

MASTERCARD PARKING LOT "E"

2200 MASTERCARD BOULEVARD
OFFALON, MO 63368

| NO. | ISSUED FOR | DATE |
|-----|------------------------|----------|
| REV | REV NAME | REV DATE |
| 1 | APPLICATION SITE PLANS | 10/21/18 |
| 2 | APPLICATION SITE PLANS | 10/11/18 |
| 3 | PERMITS | 11/16/18 |
| 4 | PERMITS | 11/21/18 |
| 5 | PERMITS | 12/28/18 |

STAMP

Kristy DeGuerre
Landscape Architect
LA-2010000189
DRAWING TITLE

Landscape Site Plan

PROJECT #: 18-292
SHEET NUMBER

L2

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