Ferris Park Improvements

500 New Ballwin Road Ballwin, Missouri 63021

PREPARED FOR:
CITY OF BALLWIN
#1 BALLWIN COMMONS DRIVE
BALLWIN, MISSOURI 63021
636.207.2338



7722 Big Bend Blvd. St. Louis, MO 63119 t. 314.644.5700

CLIENT CONTACT - CHRIS CONWAY
BID NUMBER - N/A
MSD # - 20MSD-00133
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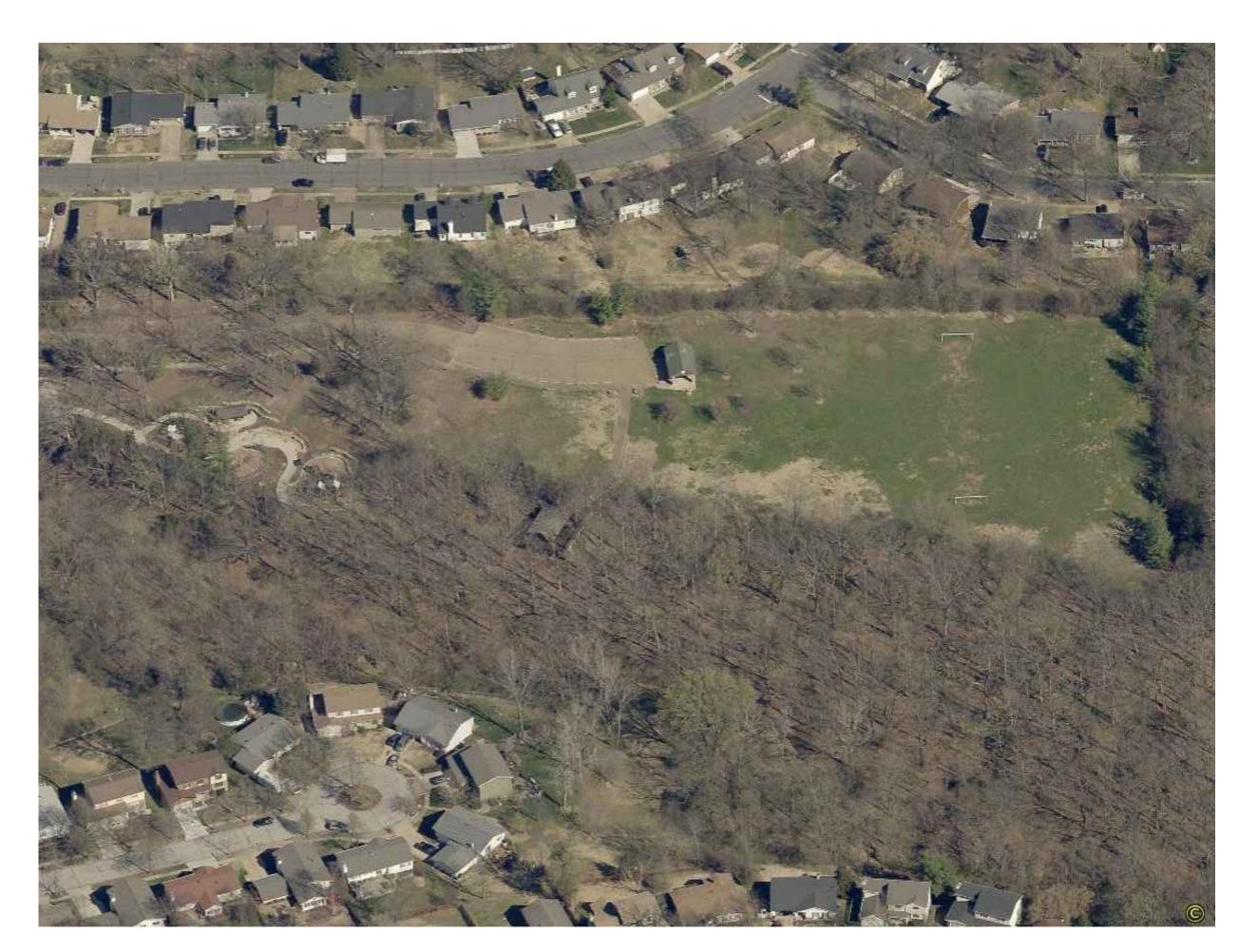
DRAWING INDEX:

COVER SHEET G-001 NOTES AND LEGENDS V-101 **EXISTING SITE SURVEY** LD-100 DEMOLITION AND TREE PROTECTION PLAN L-110 SITE LAYOUT AND KEY PLAN L-111 LAYOUT PLAN L-112 LAYOUT PLAN L-120 **GRADING PLAN** L-121 **GRADING PLAN** L-140 TREE PLANTING PLAN L-150 UNDERSTORY PLANTING PLAN SEED/SOD PLANTING PLAN L-160 L-180 SITE ENLARGEMENTS L-190 FITNESS AREA AND UNDERDRAIN L-500 **DETAILS** L-501 **DETAILS** L-510 CIVIL DETAILS L-520 PLANTING DETAILS AND SCHEDULE L-530 SECTIONS L-540 SECTIONS

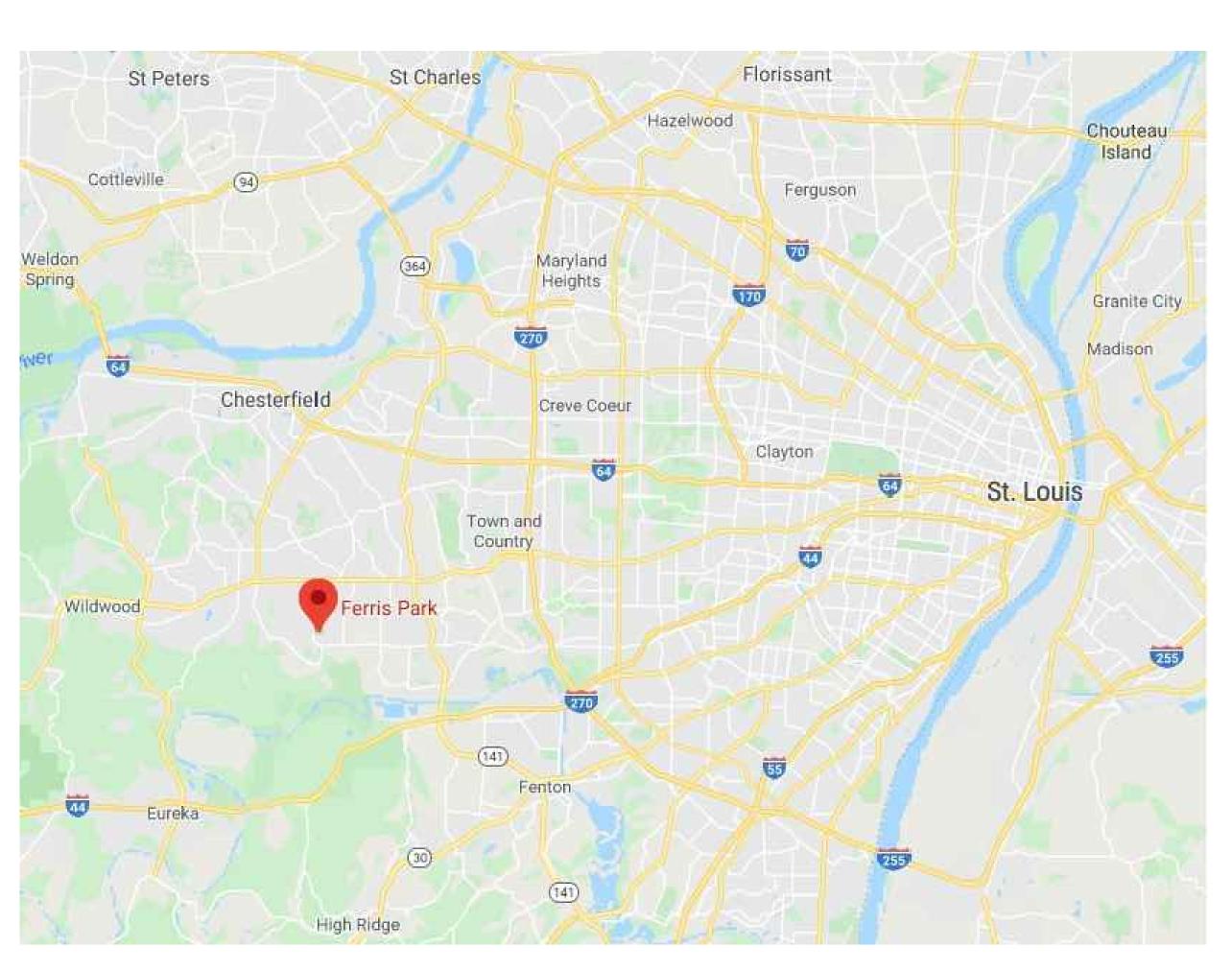
STORMWATER NOTE:

PROJECT DISTURBANCE = 3.39 ACRES
PROJECT RUNOFF DIFFERENTIAL = 0.68 CFS
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING

TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN).



EXISTING SITE PHOTO



LOCATION MAP: N.T.S.



- THESE NOTES PERTAIN TO ALL CONSTRUCTION AND THE FOLLOWING DOCUMENTS
- DO NOT REPRODUCE DRAWINGS AT DIFFERENT SCALE THAN SHOWN. USE DIMENSIONS SHOWN.
- SITE DIMENSIONS ARE TO FACE OF CURB, PROPERTY LINE, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS AND RADII TO OR FROM CURB LINES ARE TO FACE OF CURB. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF EXISTING SITE CONDITIONS DIFFER FROM THOSE SHOWN ON PLANS.
- ALL QUESTIONS REGARDING THESE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THIS WORK. THE COST OF THESE PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT
- PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OWNER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF THE WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FULLY FAMILIAR WITH ALL OF THE CONDITIONS THAT PERTAIN TO THE WORK DESCRIBED HEREIN. THE FAILURE TO UNDERSTAND OR TO HAVE KNOWLEDGE OF ISSUES THAT COULD HAVE BEEN DETERMINED PRIOR TO BIDDING WILL NOT CONSTITUTE GROUNDS FOR ASKING FOR WORK CHANGE ORDERS OR EXTRA WORK.
- THIS SET OF PLANS IS SUFFICIENT FOR OBTAINING A BUILDING PERMIT, HOWEVER, ALL MATERIALS AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT NECESSARILY DESCRIBED. THE PLANS DELINEATE AND DESCRIBE ONLY LOCATIONS, DIMENSIONS, TYPES OF MATERIALS AND GENERAL METHODS OF ASSEMBLING OR FASTENING. THE SPECIFICATIONS INCLUDED WITH THIS PLAN SET SPECIFY PARTICULAR PRODUCTS OR MATERIALS RECOMMENDED FOR THIS DESIGN. THE IMPLEMENTATION OF THESE PLANS REQUIRES THAT THE CONTRACTOR IS THOROUGHLY KNOWLEDGEABLE WITH THE APPLICABLE BUILDING CODES AND METHODS FOR CONSTRUCTION SPECIFIC TO THIS PROJECT AND TYPE OF CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT ALL LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION SHALL BE INCLUDED IN THE WORK FOR THE COMPLETE EXECUTION OF THE PROJECT. THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, OR SEQUENCING OF CONSTRUCTION.
- USE OF EXPLOSIVES OR BURNING ON SITE IS PROHIBITED.
- GENERAL CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN ELECTRICAL, PLUMBING, LANDSCAPE, IRRIGATION, AND OTHER TRADE CONTRACTORS.
- ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM THE SURVEY PROVIDED BY THE OWNER. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES, AND UTILITIES MUST BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO ANY GRADING OPERATIONS AND PROTECT THE UTILITIES DURING THIS WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND EXISTENCE OF ANY UTILITIES NOT SHOWN. ALL UTILITIES SHALL BE LOCATED AND MARKED BOTH HORIZONTALLY AND VERTICALLY TO ENSURE CLEARANCE OF ANY PROPOSED SITE WORK. UTILITY COMPANY REPRESENTATIVES SHALL BE ON SITE DURING TIMES OF EXCAVATION IN THE VICINITY OF THEIR FACILITIES. ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS TO BE ADDRESSED TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUATION OF THE WORK.
- ALL ELEVATIONS ARE BASED ON INFORMATION PROVIDED ON THE SURVEY.
- ALL EXCAVATION, WHETHER UTILITY TRENCHES OR FOOTING EXCAVATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "CONSTRUCTION STANDARDS FOR EXCAVATION."
- SIGNS, LIGHTS, AND BARRICADES SHALL BE INSTALLED AT LOCATIONS NECESSARY TO MAINTAIN A SAFE WORK SITE CONDITION AS DIRECTED/APPROVED BY THE OWNER AND IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- DO NOT DISTURB ANY UTILITIES UNLESS OTHERWISE NOTED.
- THE APPROPRIATE UTILITY AGENCY SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF ANY WORK WHICH WILL AFFECT AN EXISTING UTILITY.
- SILTATION AND EROSION CONTROL DEVICES SHALL BE INSTALLED AS NECESSARY PRIOR TO ANY GRADING OPERATIONS AND SHALL BE INSPECTED AND MAINTAINED DAILY AFTER PERIODS OF PRECIPITATION ON A REGULAR BASIS UNTIL SUFFICIENT VEGETATION HAS BEEN ESTABLISHED ON THE SITE TO PREVENT EROSION ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS NEEDED, UPON WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
- HAUL ROUTE APPROVAL SHALL BE OBTAINED FROM THE OWNER PRIOR TO COMMENCEMENT OF HAULING.
- THE CONTRACTOR SHALL KEEP EXISTING ROADWAYS AND SIDEWALKS CLEAN OF MUD AND DEBRIS AT ALL
- NO AREA SHALL BE CLEARED WITHOUT THE PERMISSION OF THE OWNER.
- NOTIFY LANDSCAPE ARCHITECT IN THE EVENT OF ANY CONFLICT DURING GRADING AND EXCAVATING WITH
- EXISTING TREE ROOTS IF REMOVING PAVEMENT, SIDEWALKS, AND OTHER SIMILAR IMPROVEMENTS AND WHERE A PORTION OF SUCH IMPROVEMENTS ARE TO BE LEFT IN PLACE, THEY SHALL BE REMOVED TO AN EXISTING JOINT OR SAW CUT AT
- ALL DEBRIS RESULTING FROM THE DEMOLITION OF RIGID PAVEMENTS, CURBING, STRUCTURES, FOUNDATIONS, AND FOOTINGS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
- AFTER ALL ASPHALT AND CONCRETE PAVING HAS BEEN REMOVED, CONTRACTOR SHALL DISC AND TURN
- EXISTING GRANULAR BASE THOROUGHLY AS REQUIRED TO DRY BASE MATERIAL ALL CUT AREAS AND AREAS TO RECEIVE FILL AND BACKFILL SHALL BE STRIPPED OF TOPSOIL, SOFT SOIL, AND OTHER DELETERIOUS MATERIALS. TOPSOIL TO BE STOCKPILED FOR LATER USE DURING LANDSCAPING OR BE
- REMOVED FROM THE SITE UPON OWNER'S WRITTEN APPROVAL. ALL TRASH, DEBRIS, ORGANIC MATERIAL, REFUSE, FROZEN EARTH, ETC. SHALL BE REMOVED FROM FILL AREAS PRIOR TO PLACEMENT OF CONTROLLED FILL AND BE PROPERLY DISPOSED OF FROM THE SITE PER LOCAL REGULATIONS. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM
- BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL, AND DEBRIS. CARE SHALL BE EXERCISED IN COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT DAMAGE TO PIPES, JOINTS, SEALS, STRUCTURES, AND/OR WATERPROOFING
- MEMBRANES.
- REFERENCE LINES AND GRADES SHALL BE MAINTAINED DURING THE PROGRESS OF THE WORK ALL GRADES SHALL BE WITHIN 0.1 FEET OF THOSE SHOWN ON THE GRADING PLAN, EXCEPT AS INDICATED IN
- THE PROJECT SPECIFICATIONS. THE TOLERANCE OF ALL LINES AND GRADES IN THE SUBGRADE CROSS SECTION TO BE +/-1" BELOW A 10'
- ELEVATIONS AND CONTOURS SHOWN ARE TO TOP OF FINISHED GROUND OR PAVED SURFACE, UNLESS NOTED
- OTHERWISE, AND SHOULD MEET ALL EXISTING SURFACES. SEE SITE CIVIL DRAWINGS FOR ADDITIONAL GRADING INFORMATION AND UNDERGROUND UTILITIES. VERIFY THAT ALL GRADES PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING AND COORDINATE WITH CIVIL
- ENGINEERING DRAWINGS AND EXISTING TOPOGRAPHY. FINAL GRADING WITHIN CURB LINE SHALL BE VERIFIED BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING GRADED AREAS, AND IF NECESSARY, RESTORE TO GRADE ANY RUTS, WASHES, OR OTHER CHANGES FROM THE DESIGN ELEVATIONS SHOWN HERE, UNTIL THE
- CONTRACTOR TO PROVIDE SAMPLES AND MOCKUPS OF ALL MATERIAL FOR LANDSCAPE ARCHITECT'S APPROVAL. COLORS TO BE REVIEWED AND APPROVED BY OWNER. MOCKUP SHALL BE A MINIMUM OF 4' X 4', UNLESS OTHERWISE NOTED IN SPECIFICATIONS, INDICATING MATERIALS AND PATTERN FOR LANDSCAPE ARCHITECT'S APPROVAL. ALL MATERIAL TYPES, COLORS, FINISHES, AND PROCESSES SHALL BE SELECTED AN APPROVED BY LANDSCAPE ARCHITECT. SAMPLES AND MOCKUPS SHALL INCLUDE:
 - A. ALL JOINTS, SEALANTS, AND COLORS.

NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF

DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR

SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE

DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS

SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.

GRADING WORK IS ACCEPTED BY THE OWNER.

- B. DECORATIVE CONCRETE PAVING (COLORED, EXPOSED AGGREGATE, STAMPED).
- C. STORM DRAIN UTILITIES.
- D. RETAINING WALLS (CONCRETE, MODULAR, AND/OR BOULDER).
- PLANT MATERIAL BOULDERS
- G. BOLLARDS

- SUBMIT PHOTOGRAPHS OF BOULDERS FOR LANDSCAPE ARCHITECT'S APPROVAL
- INSTALL GRANULAR BASE PER DRAWINGS NOTES, DETAILS, AND/OR SPECIFICATIONS.
- ALL EXTERIOR PAVEMENT SHALL MEET EXISTING PAVEMENT ELEVATIONS. ALL TRENCHES UNDER OR ADJACENT TO PROPOSED PAVEMENT OR SIDEWALKS SHALL BE BACKFILLED TO SUBGRADE ELEVATION WITH COMPACTED 3/4-INCH MINUS CRUSHED LIMESTONE. CRUSHED LIMESTONE SHALL BE COMPACTED AS SPECIFIED.
- ALL BOULDERS AND PLANTING AREAS WITHIN PAVEMENT TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION.
- ALL WALKWAY SURFACES SHALL BE LESS THAN 5% SLOPE, 2% CROSS SLOPE AND SHALL MEET ALL ADA REQUIREMENTS.
- ALL SURFACES SHALL PITCH AWAY FROM BUILDINGS AT A MINIMUM OF 2% LONGITUDINAL, OR AS NOTED. COORDINATE SLEEVES WITH IRRIGATION AND ELECTRICAL CONTRACTORS.
- THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL "OFF SITE" AREAS/PROPERTY AND
- EASEMENTS DISTURBED BY HIS OPERATIONS. CONTRACTOR SHALL REPLACE AT HIS/HER EXPENSE ANY SIGNS DAMAGED OR LOST DURING REMOVAL, STORAGE OR RESETTING. THE IMPROVEMENT PLANS SHOW THE LOCATIONS WHERE SIGNS ARE TO BE RESET,
- HAND RAKE ALL FINISH GRADING TO HAVE SMOOTH AND CONTINUOUS TRANSITIONS TO THE EXISTING GRADE. ALL FINAL GRADING TO BE APPROVED BY THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO SEEDING OR SODDING. FINISH GRADING TOLERANCE TO BE $\pm 1/2$ BELOW 10' STRAIGHT EDGE.
- SEED AND STRAW ALL DISTURBED AREAS NOT NOTED TO BE IMPROVED PER WRITTEN SPECIFICATIONS.

TREE PROTECTION & PRESERVATION NOTES:

AND THE OWNER SHALL APPROVE THE FINAL LOCATIONS.

- 1. A PRE-CONSTRUCTION MEETING SHALL BE HELD ON-SITE TO EXPLAIN PROTECTION MEASURES TO OPERATORS, CONSTRUCTION SUPERVISORS, CONTRACTOR'S REPRESENTATIVES, AND THE GOVERNING AGENCY'S REPRESENTATIVE (IF NECESSARY)
- 2. CLEARING LIMITS SHALL BE ROUGH STAKED BY CONTRACTOR IN ORDER TO FACILITATE LOCATION FOR TRENCHING AND FENCING INSTALLATION. LIMITS TO BE APPROVED BY LANDSCAPE ARCHITECT OR GOVERNING AGENCY INSPECTOR.
- 3. NO CLEARING OR GRADING SHALL BEGIN IN AREAS WHERE TREE TREATMENT AND PRESERVATION MEASURES HAVE
- 4. THE SEQUENCE OF TREE TREATMENT AND PRESERVATION MEASURES SHALL BE:
- ROOT PRUNING TRENCHING
- TREE PROTECTION FENCING
- SIGN INSTALLATION
- TREE PRUNING
- 5. ALL TREATMENT AND PRESERVATION MEASURES SHALL BE DIRECTED IN THE FIELD BY THE PROJECT LANDSCAPE ARCHITECT OR "TREE PROTECTION SUPERVISOR."
- 6. TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION. ONCE APPROVED BY THE LANDSCAPE ARCHITECT OR GOVERNING AGENCY, THE FENCE SHALL NOT BE
- ALTERED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT OR GOVERNING AGENCY'S REPRESENTATIVE. 7. ACCESS TO FENCED AREAS BY EQUIPMENT, MATERIALS, OR INDIVIDUALS THAT MAY CAUSE HARM TO THE PROTECTED TREES WILL ONLY BE PERMITTED WITH THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT OR GOVERNING
- AGENCY. 8. TREES, SHRUBS, OR UNDERGROWTH SHALL BE REMOVED FROM PROTECTED AREAS ONLY WHEN NECESSARY AND
- SHALL BE PERFORMED WITH HAND TOOLS ONLY. 9. ATTACHMENT OF SIGNS, FENCING, ETC. TO ANY TREE TO BE SAVED IS PROHIBITED.
- 10. AFTER CONSTRUCTION, ALL TEMPORARY BARRIERS, FENCING, DEBRIS, ETC. SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

PLANTING NOTES:

- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THE INSPECTION FOR PLANT DISEASE AND INSECT INFESTATION.
- 2. LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANT MATERIAL AND PLACEMENT PRIOR TO INSTALLATION. CONTACT LANDSCAPE ARCHITECT AT LEAST TWO (2) WEEKS PRIOR TO REVIEW.
- 3. ALL TREES AND SHRUBS SHALL EQUAL OR SURPASS AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1, 2004 FOR SIZE AND QUALITY
- 4. CONTRACTOR SHALL VERIFY THE PLANT MATERIAL IS PROPERLY LABELED, IS OF PROPER SIZE, HAS A WELL DEVELOPED BRANCH AND ROOT STRUCTURE, AND IS IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN. COMPLY WITH THE
 - DO NOT PRUNE PLANT MATERIAL PRIOR TO DELIVERY WITHOUT SPECIFIC APPROVAL BY LANDSCAPE ARCHITECT.
 - PLANTS ARE SUBJECT TO LANDSCAPE ARCHITECT INSPECTION FOR SIZE, VARIETY, CONDITION, LATENT DEFECTS, AND INJURY AT THE PLACE OF GROWTH AND AT THE PROJECT SITE AT ANY TIME BEFORE AND DURING PROGRESS OF WORK.
 - WHEN REQUESTED BY LANDSCAPE ARCHITECT, SHOW SAMPLES TO PROVE THAT NO ROOT BOUND CONDITIONS EXIST
 - REMOVE REJECTED PLANTS FROM THE SITE IMMEDIATELY AND REPLACE WITH ACCEPTABLE AND LANDSCAPE ARCHITECT
 - APPROVED MATERIALS. E. REPLACEMENT PLANTS SHALL BE THE SAME TYPE AND SIZE AS ORIGINALLY PLANTED
- SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT THE LANDSCAPE ARCHITECT'S WRITTEN APPROVAL
- CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE TO THE OWNER THAT ALL TREES, SHRUBS, AND PLANT MATERIALS WILL
- MAINTAIN VIGOROUS AND HEALTHY GROWTH FOR THE SPECIFIED GUARANTEE PERIOD OF ONE YEAR, UNLESS OTHERWISE STATED.

7. GUARANTEE PERIOD SHALL BEGIN UPON SUBSTANTIAL COMPLETION OF WORK BY OWNER, AFTER SUCCESSFUL COMPLETION OF

- THE SPECIFIED MAINTENANCE PERIOD. CONTRACTOR SHALL REMOVE TAGS, LABELS, NURSERY STAKES, WIRE BASKETS OR CAGES, AND TIES FROM ALL PLANTS.
- 9. SOIL PREPARATION, FERTILIZATION, PLANTING, AND STAKING AND GUYING SHALL CONFORM TO DETAILS AND SPECIFICATIONS.
- 10. PLANT MATERIAL QUANTITIES ARE PROVIDED FOR PRELIMINARY COST ESTIMATE PURPOSES ONLY. LANDSCAPE CONTRACTOR IS
- RESPONSIBLE FOR VERIFYING QUANTITIES AS SHOWN ON PLANS. 11. CONTRACTOR SHALL COORDINATE LOCATION OF PLANT MATERIAL WITH ALL OTHER CONTRACTORS.
- 12. ALL PLANT PIT EXCAVATION SHALL BE PER DETAILS AND SPECIFICATIONS.
- 13. IF PLANTING PITS ARE EXCAVATED USING A POWER AUGER, BREAK VERTICAL SIDES WITH A BALLING BAR OR SPADE TO INTERRUPT
- CONTINUOUS CURVE INFLUENCE ON ROOT DEVELOPMENT. 14. ALL SOIL FOR LANDSCAPE PLANTING AREAS OR BERMS SHALL BE OBTAINED FROM OFF-SITE EXCAVATIONS AND CONTRACTOR SHALL INDICATE SOURCE LOCATION. SOILS SHALL BE SANDY LOAM CONTAINING NO TOXIC CHEMICALS OR ELEMENTS WHICH MAY
- INHIBIT OR RETARD NORMAL PLANT GROWTH. CONTRACTOR SHALL PROVIDE A SOIL SUITABILITY TEST TO DETERMINE SOIL FERTILITY. THE RESULTS OF THIS SOIL STUDY WILL SERVE AS THE RECOMMENDATIONS FOR ANY NECESSARY SOIL AMENDMENTS. SOIL SURVEY RESULTS WILL BE PROVIDED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SOIL PLACEMENT. ALL SOIL AMENDMENTS SHALL CONFORM TO INDUSTRY STANDARDS.
- CONTRACTOR SHALL KILL AND REMOVE ALL EXISTING WEEDS FROM SITE.
- 16. SOIL PREPARATION AND BACKFILL RECOMMENDATIONS CONTAINED WITHIN THESE PLANS AND/OR SPECIFICATIONS ARE FOR BID PURPOSES ONLY. FINAL SOIL ANALYSIS RECOMMENDATIONS SHALL SUPERSEDE. SEE SPECIFICATIONS.
- 17. CONTRACTOR SHALL OBTAIN A MINIMUM OF ONE SOIL SAMPLE FOR TESTING FROM EACH PLANTING AREA OR AS SHOWN ON PLAN. A COPY OF THE SOILS REPORT WITH RECOMMENDATIONS SHALL BE GIVEN TO THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO ANY WORK BEING DONE. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY SOIL PROBLEMS THAT MIGHT
- 18. CONTRACTOR SHALL INSTALL AMENDED SOIL MIX PER SOIL ANALYSIS RECOMMENDATIONS AND AS APPROVED BY LANDSCAPE ARCHITECT. SCARIFY SUBSOIL, INSTALL AND INCORPORATE AMENDED TOPSOIL AS PER SPECIFICATIONS, IN ALL PLANTING AND
- 19. AMENDED SOIL MIX TO BE INSTALLED UP TO 2" BELOW FINISH GRADE ADJACENT TO PAVEMENT AND BUILDING STRUCTURES AT PLANTING AREAS TO ALLOW FOR MULCH; AND $\frac{1}{2}$ " BELOW FINISH GRADE ADJACENT TO BUILDING STRUCTURES AND PAVEMENT AT
- 20. BERMS AND SLOPES ADJACENT TO PAVEMENT TO BE GRADED PER DETAILS.
- 21. CONTRACTOR SHALL REMOVE ALL EXCESS SOIL, CONTAMINATED SOILS, ROCKS, CLODS, AND DEBRIS AS IT ACCUMULATES ON A
- 22. CONTRACTOR SHALL GRADE AROUND ALL PLANTS TO FINISH GRADE UNLESS OTHERWISE NOTED. 23. ALL LANDSCAPE AREAS (EXCLUDING TURF) ARE TO BE MULCHED WITH A 2" DEEP LAYER OF BARK MULCH OR DOUBLE GROUND
- HARDWOOD AT THE CONCLUSION OF PLANTING OPERATIONS. MULCH SHALL BE WELL DECOMPOSED BARK MULCH, 3" IN SIZE OR 24. ALL TRANSITIONS BETWEEN PLANTING BEDS AND LAWNS ARE TO BE SPADE CUT EDGE, UNLESS OTHERWISE NOTED.
- 25. CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF EXISTING IRRIGATION (IF ANY) AND ADJUST PLANT LAYOUT IN COORDINATION WITH NEW PLANTINGS AND IRRIGATION, IF APPLICABLE.

26. ALL PLANTINGS, EXCLUDING SEED AND SOD, SHALL BE HELD 3' CLEAR OF FIRE HYDRANTS.

27. ALL PLANTING AREAS WITHIN CONCRETE PAVING TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION.

LEGEND

TREE PROTECTION FENCE — p — p — p — p — p

+ TC 600.75 TOP OF CURB ELEVATION BOTTOM OF CURB ELEVATION + BC 600.25

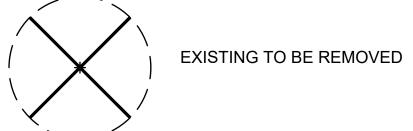
> TOP OF WALL ELEVATION + TW 600.75 + BW 595.25 BOTTOM OF WALL ELEVATION +600.75SPOT ELEVATION

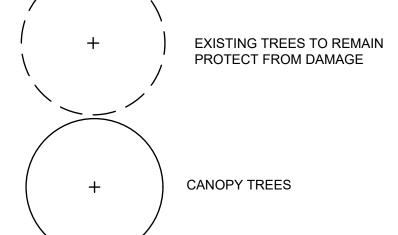
LIMITS OF DISTURBANCE

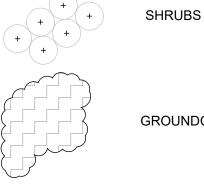
CONTOURS

EXPANSION JOINTS CONTROL JOINT PLANTING AREA

AREA TO REMOVED







GROUNDCOVER / PERENNIALS



SEED

MATERIALS LEGEND

STANDARD CONCRETE PAVING

5" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/4" TOOLED RADIUS. SEE CIVIL DRAWINGS FOR LAYOUT. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH LANDSCAPE ARCHITECT. SEE DETAIL A/L-500.



THRIVE 450 FITNESS STATION BY GAMETIME. 19'X32' USE ZONE. MODEL #: 14912 THRIVE SHADE SAIL TO ACCOMPANY, MODEL: 14932 OWNER FURNISHED, CONTRACTOR INSTALLED SEE DETAIL SHEET L-190



DRAIN INLET

SEE SHEET L-700 FOR DETAILS

BENCH STYLE AND MANUFACTURER TO MATCH EXISTING

ON-SITE. SURFACE MOUNT TO CONCRETE PAD. SEE DETAIL E/L-500 FOR LAYOUT AND DIMENSIONS **WOODLAND TRAIL**

UNPAVED WOODLAND TRAIL TO MATCH AND CONNECT TO



EXISTING TRAIL WHERE SHOWN TURF ATHLETIC FIELD AREA

SEE SEED/SOD PLANS SHEET L-190

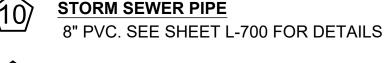


ASPHALT PAVEMENT

SEE DETAIL F/L-500

PARKING BAY WHEELSTOPS STANDARD 6' X 8" CONCRETE WHEELSTOPS TO BE BOLTED IN-PLACE

CONCRETE SEGMENTAL RETAINING WALL



'BELVEDERE' CONCRETE BLOCK RETAINING WALL BY ROSETTA HARDSCAPES. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS AND FULL RANGE COLOR OPTIONS FOR FINAL APPROVAL. SEE DETAIL B/L-500 FOR TYPICAL DETAIL ALTERNATE 1: LIMESTONE BOULDER WALL TO BE CONSIDERE BY OWNER AT ALL WALL LOCATIONS. SEE A/L-501 FOR DETAIL



6" CONCRETE CURB

SEE DETAIL F/L-500

DRAINAGE PIPE DAYLIGHT



SYNTHETIC TURF SURFACING TO BE FOREVER LAWN PLAYGROUND GRASS ULTRA WITH AGGREGATE BASE AND UNDER DRAIN SYSTEM. SYNTHETIC TURF COLORS TO BE DETERMINED FROM MANUFACTURER'S STANDARD COLORS BY LANDSCAPE ARCHITECT. SEE FITNESS AREA SHEET L-190 FOR UNDER DRAIN LAYOUT. SEE H/L-500 FOR DETAIL



4" CONCRETE HEADER FLUSH CONCRETE HEADER TO BE 4" WIDTH X 12" DEPTH. ¹/₂" TOOLED RADIUS AT CORNERS. SEE DETAIL I/L-500



SEE DETAIL J/L-500. CONCRETE CURB TRANSITIONS TO FLUSH HEADER TO BE 3:1 SLOPING WHERE SHOWN



ONE-WAY ROAD SIGN TO COMPLY WITH CITY STANDARDS



TO COMPLY WITH CITY STANDARDS

ACCESSIBLE PARKING SIGN



LIMESTONE BOULDER NATURAL REGIONAL LIMESTONE BOULDER TO BE SET IN LANDSCAPE AS VEHICULAR BARRIER APPROXIMATE SIZE TO BE 24-36" LENGTH X 8-16" WIDTH X 12-24" HEIGHT

CURB TO BE 3:1 SLOPING WHERE SHOWN

SEE DETAIL D/L-500. TRANSITIONS TO 6" CONCRETE



CONCRETE CURB CUTS WITH TRAP ROCK 12" LENGTH X 6" DEPTH OPENING IN CURB TO ALLOW FOR DRAINAGE INTO BMP. CURB CUT OPENINGS TO BE SPACED 6 APART. ROCK TO BE PLACED AT CURB CUTS IN LANDSCAPE AREA AS SHOWN. TRAP ROCK TO BE 3-5" AT 6" MINIMUM DEPTH OVER FABRIC. 12" WIDTH X 18" LENGTH AREA.

#1 Ballwin Commons Circle

Ballwin, MO 63011

Prepared For:

Ferris Park Improvements

Landscape Architect: SWIDESIGN

St. Louis, MO 63119 t. 314.644.5700

Ted Spaid - Landscape Architect



Authority #2006002904 KEY PLAN

No. Description 01 Project Review Set 04/24/20 02 Project Bid Set

Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

NOTES AND LEGENDS

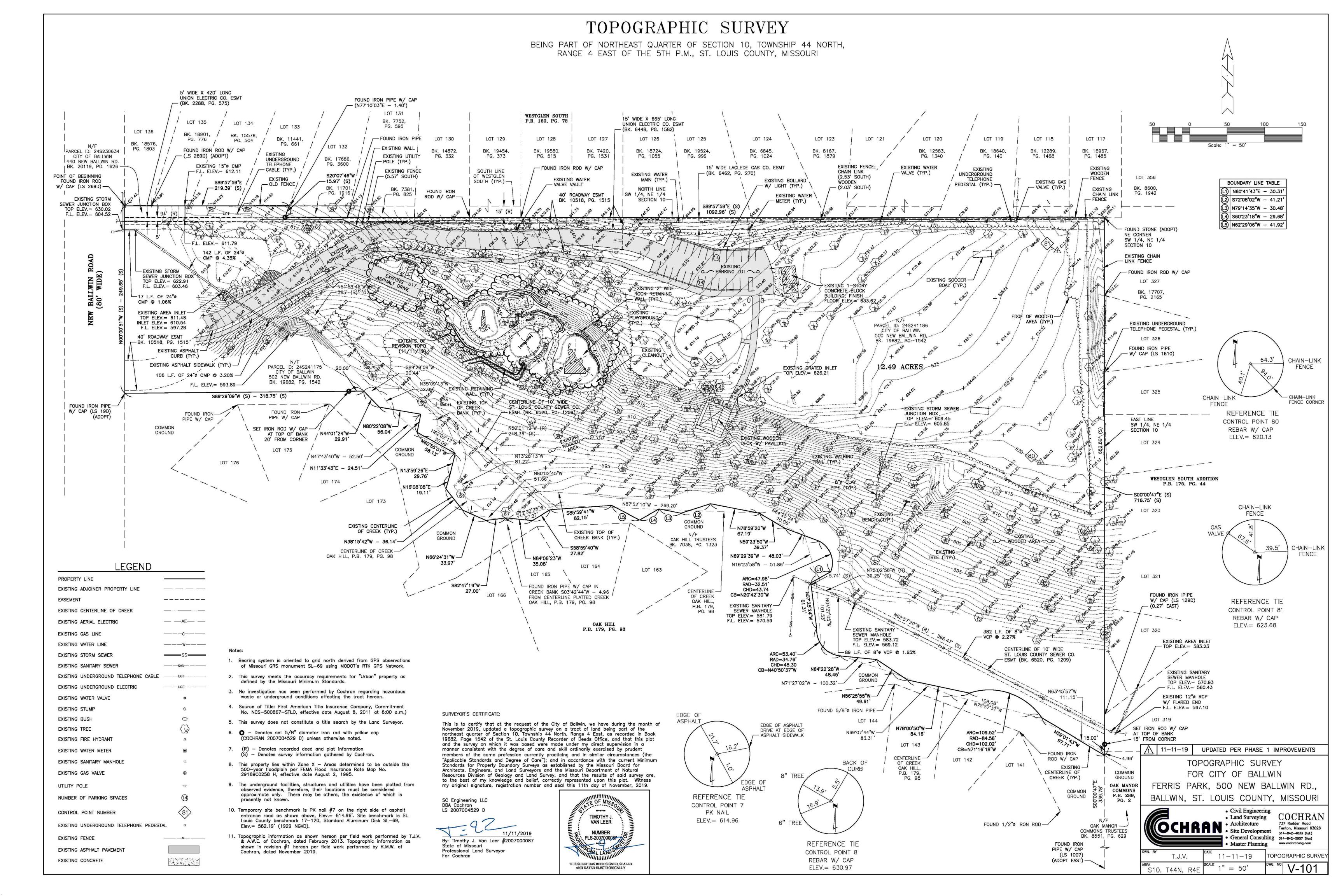
Number

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MSD No.: 20MSD-00133

KP/CMB

BASEMAP: 24S3



MODOT (314) 340-4100

Prepared For:

TO REMAIN

#1 Ballwin Commons Circle Ballwin, MO 63011

Ferris Park Improvements



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Ted Spaid - Landscape Architect



SWT Design, Inc. Missouri State Certificate of Authority #2006002904

KEY PLAN

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Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

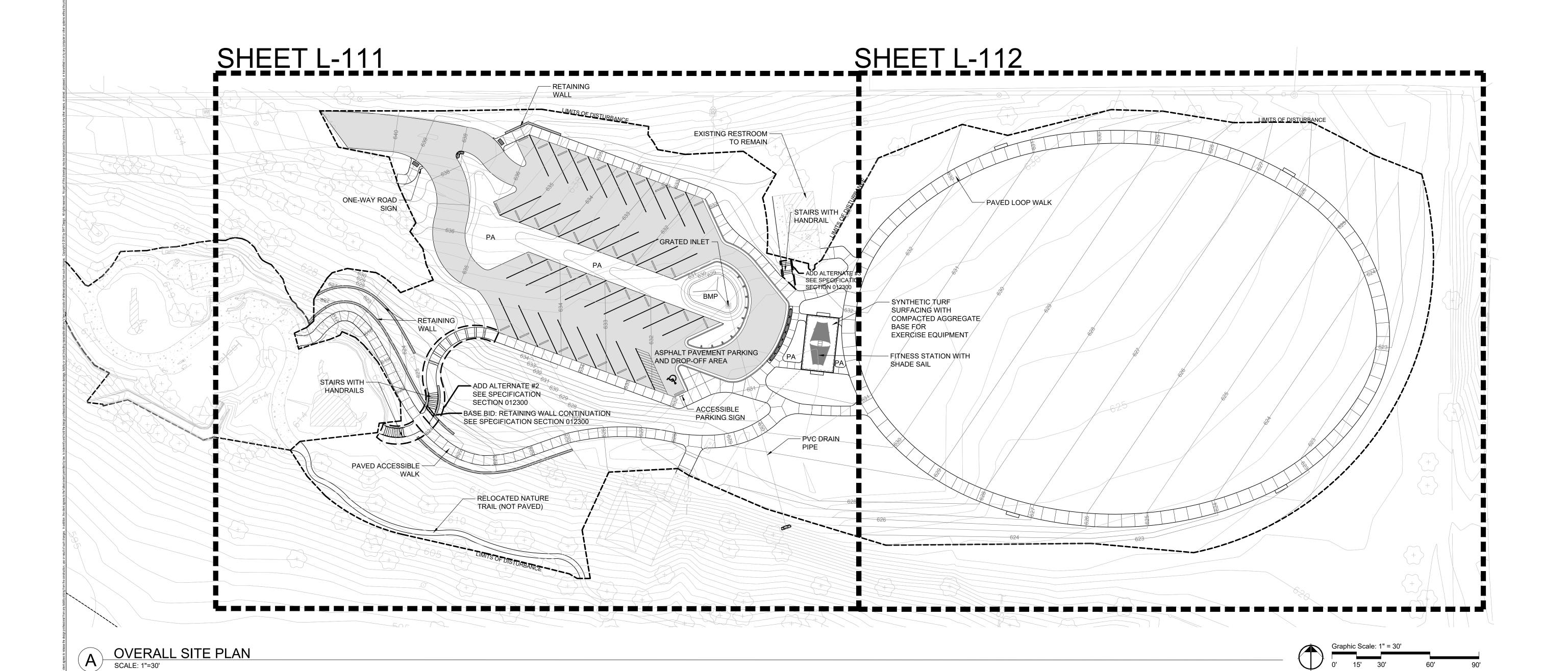
KP/CMB

DEMOLITION AND TREE PROTECTION PLAN

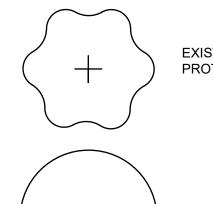
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LD-100

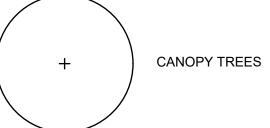
BASEMAP: 24S3



LEGEND



EXISTING TREES TO REMAIN PROTECT FROM DAMAGE



LIMITS OF DISTURBANCE



NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.

Prepared For:



#1 Ballwin Commons Circle Ballwin, MO 63011

Project: Ferris Park Improvements

Landscape Architect:



7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

Ted Spaid - Landscape Architect



SWT Design, Inc. Missouri State Certificate of Authority #2006002904

KEY PLAN

Issuances No.DescriptionDate01Project Review Set04/24/20 02 Project Bid Set

Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

KP/CMB

SITE LAYOUT/ KEY PLAN

Number L-110

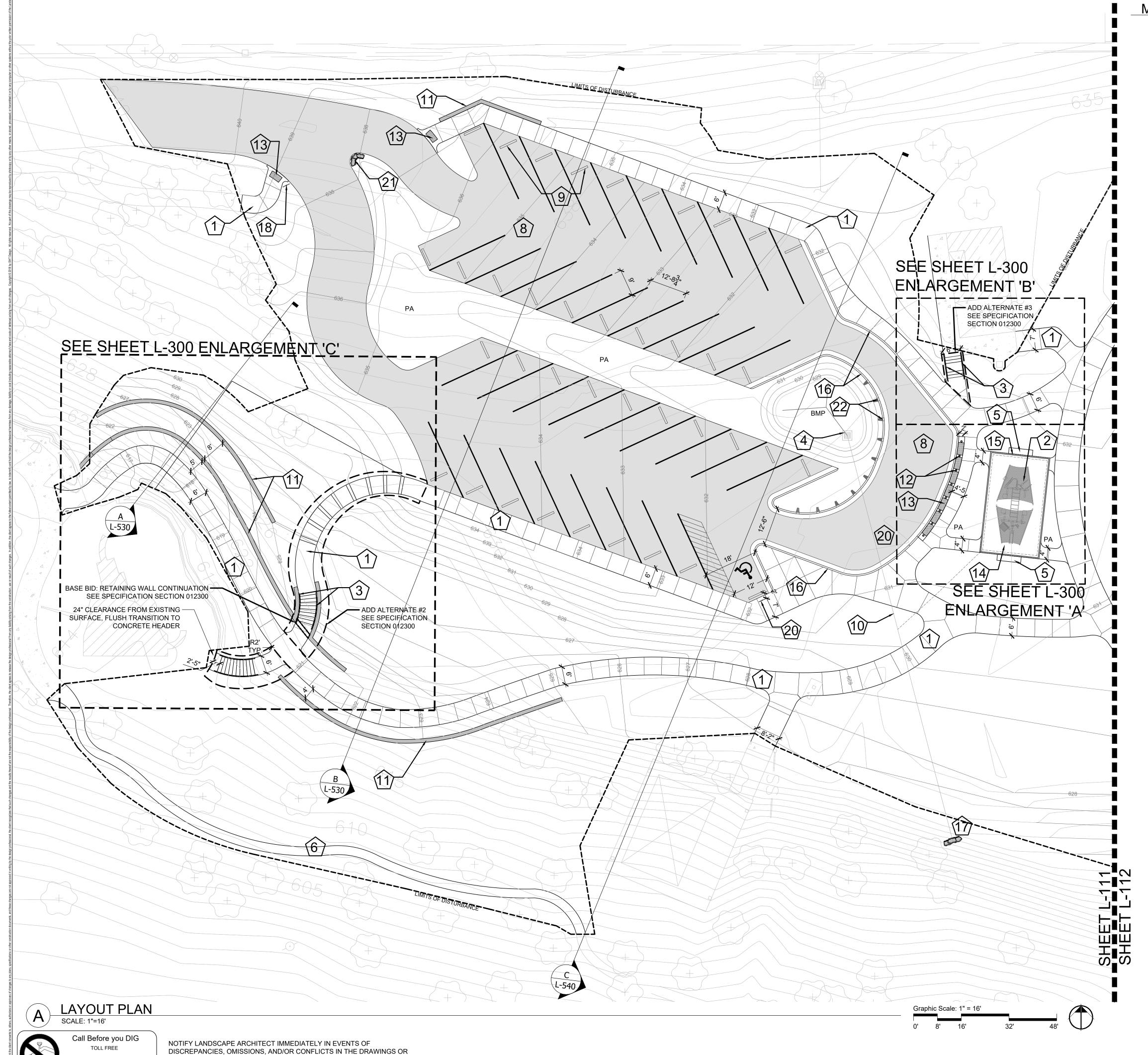
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MISSOURI ONE-CALL SYSTEM INC.

MODOT (314) 340-4100

SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS

SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.



MATERIALS LEGEND

STANDARD CONCRETE PAVING

5" THICK CONCRETE PAVING, LIGHT BROOM FINISH.
EDGES TO BE ¼" TOOLED RADIUS. SEE CIVIL DRAWINGS
FOR LAYOUT. CONTRACTOR TO COORDINATE
LOCATION OF ALL JOINTS WITH LANDSCAPE
ARCHITECT. SEE DETAIL A/L-500.

(2) <u>FITNESS STATION</u>

THRIVE 450 FITNESS STATION BY GAMETIME.

19'X32' USE ZONE. MODEL #: 14912

THRIVE SHADE SAIL TO ACCOMPANY, MODEL: 14932

OWNER FURNISHED, CONTRACTOR INSTALLED

SEE DETAIL SHEET L-190

3) BRUSHED ALUMINUM HANDRAIL

BRUSHED ALUMINUM $1\frac{1}{2}$ " HANDRAIL TO COMPLY WITH ADA STANDARDS. 36" HEIGHT. SEE DETAIL C/L-500 FOR DETAIL

4) DRAIN INLE

SEE SHEET L-700 FOR DETAILS.

BENCH

BENCH STYLE AND MANUFACTURER TO MATCH EXISTING ON-SITE. SURFACE MOUNT TO CONCRETE PAD. SEE DETAIL E/L-500 FOR LAYOUT AND DIMENSIONS

6 WOODLAND TRAIL

UNPAVED WOODLAND TRAIL TO MATCH AND CONNECT TO EXISTING TRAIL WHERE SHOWN

SEE SEED/SOD PLANS SHEET L-190

ASPHALT PAVEMENT
SEE DETAIL F/L-500

PARKING BAY WHEELSTOPS
STANDARD 6' X 8" CONCRETE WHEELSTOPS
TO BE BOLTED IN-PLACE

STORM SEWER PIPE

8" PVC. SEE SHEET L-700 FOR DETAILS

TURF ATHLETIC FIELD AREA

CONCRETE SEGMENTAL RETAINING WALL

'BELVEDERE' CONCRETE BLOCK RETAINING WALL BY ROSETTA HARDSCAPES. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS AND FULL RANGE COLOR OPTIONS FOR FINAL APPROVAL. SEE DETAIL B/L-500 FOR TYPICAL DETAIL.

ALTERNATE 1: LIMESTONE BOULDER WALL TO BE CONSIDERED BY OWNER AT ALL WALL LOCATIONS. SEE A/L-501 FOR DETAIL.

6" DIA. BOLLARD BY RELIANCE FOUNDRY
SEE DETAIL D/L-500. SUBMIT PRODUCT CUTSHEET FOR APPROVAL.

ADA DETECTABLE WARNING
SEE DETAIL D/L-500

SYNTHETIC TURF

SURFACING TO BE FOREVER LAWN PLAYGROUND GRASS
ULTRA WITH AGGREGATE BASE AND UNDER DRAIN SYSTEM.
SYNTHETIC TURF COLORS TO BE DETERMINED FROM
MANUFACTURER'S STANDARD COLORS BY LANDSCAPE
ARCHITECT. SEE FITNESS AREA SHEET L-190 FOR UNDER
DRAIN LAYOUT. SEE H/L-500 FOR DETAIL

4" CONCRETE HEADER

FLUSH CONCRETE HEADER TO BE 4" WIDTH X 12" DEPTH.

1 TOOLED RADIUS AT CORNERS. SEE DETAIL I/L-500

6" CONCRETE CURB

SEE DETAIL J/L-500. CONCRETE CURB TRANSITIONS TO FLUSH HEADER TO BE 3:1 SLOPING WHERE SHOWN

DRAINAGE PIPE DAYLIGHT
SEE DETAIL F/L-500

ONE-WAY ROAD SIGN

TO COMPLY WITH CITY STANDARDS

ACCESSIBLE PARKING SIGN
TO COMPLY WITH CITY STANDARDS

20) 6" HEADI

SEE DETAIL D/L-500. TRANSITIONS TO 6" CONCRETE CURB TO BE 3:1 SLOPING WHERE SHOWN

LIMESTONE BOULDER

NATURAL REGIONAL LIMESTONE BOULDER TO BE SET IN LANDSCAPE AS VEHICULAR BARRIER.

SET IN LANDSCAPE AS VEHICULAR BARRIER.

APPROXIMATE SIZE TO BE 24-36" LENGTH X 8-16"

WIDTH X 12-24" HEIGHT

CONCRETE CURB CUTS WITH TRAP ROCK

12" LENGTH X 6" DEPTH OPENING IN CURB TO ALLOW FOR DRAINAGE INTO BMP. CURB CUT OPENINGS TO BE SPACED 6' APART. ROCK TO BE PLACED AT CURB CUTS IN LANDSCAPE AREA AS SHOWN. TRAP ROCK TO BE 3-5" AT 6" MINIMUM DEPTH OVER FABRIC, 12" WIDTH X 18" LENGTH AREA.

Prepared For:

Ballwin MISSOUR

#1 Ballwin Commons Circle Ballwin, MO 63011

Project:
Ferris Park
Improvements



7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

Ted Spaid - Landscape Architect



SWT Design, Inc.
Missouri State Certificate of
Authority #2006002904

KEY PLAN

 Issuances

 No.
 Description
 Date

 01
 Project Review Set
 04/24/20

 02
 Project Bid Set
 08/27/20

Revisions
No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

KP/CMB

Sheet Title

LAYOUT PLAN

NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF

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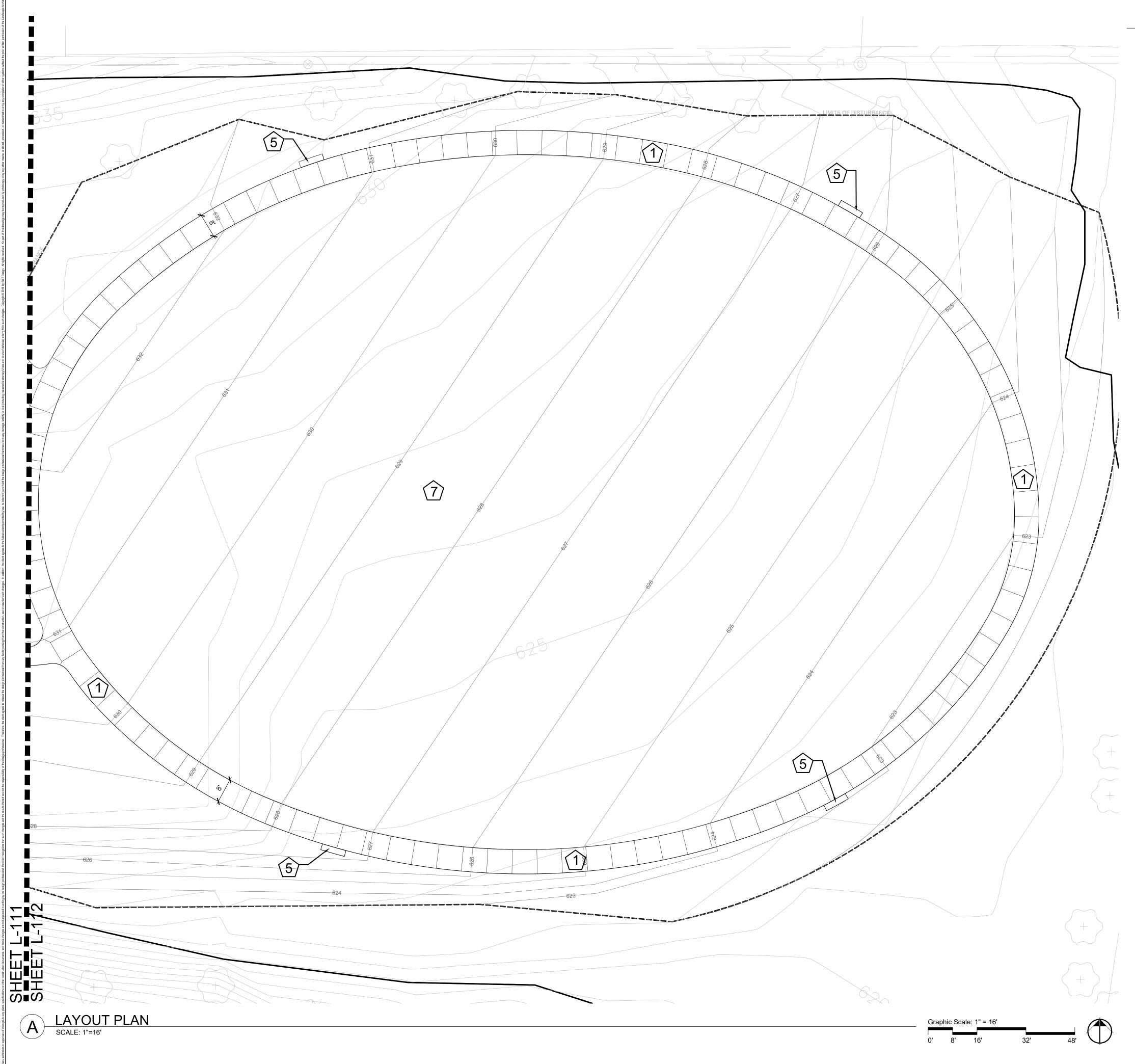
DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.

Call Before you DIG

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MISSOURI ONE-CALL SYSTEM INC.

MODOT (314) 340-4100



MATERIALS LEGEND

STANDARD CONCRETE PAVING 5" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/4" TOOLED RADIUS. SEE CIVIL DRAWINGS FOR LAYOUT. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH LANDSCAPE ARCHITECT. SEE DETAIL A/L-500.

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BRUSHED ALUMINUM HANDRAIL

BRUSHED ALUMINUM 12" HANDRAIL TO COMPLY WITH ADA STANDARDS. 36" HEIGHT. SEE DETAIL C/L-500 FOR DETAIL

SEE SHEET L-700 FOR DETAILS.

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WOODLAND TRAIL

UNPAVED WOODLAND TRAIL TO MATCH AND CONNECT TO EXISTING TRAIL WHERE SHOWN

TURF ATHLETIC FIELD AREA SEE SEED/SOD PLANS SHEET L-190

ASPHALT PAVEMENT SEE DETAIL F/L-500

PARKING BAY WHEELSTOPS STANDARD 6' X 8" CONCRETE WHEELSTOPS

STORM SEWER PIPE 8" PVC. SEE SHEET L-700 FOR DETAILS

TO BE BOLTED IN-PLACE

CONCRETE SEGMENTAL RETAINING WALL 'BELVEDERE' CONCRETE BLOCK RETAINING WALL BY ROSETTA HARDSCAPES. CONTRACTOR TO SUBMIT ENGINEERED SHOP DRAWINGS AND FULL RANGE COLOR OPTIONS FOR FINAL APPROVAL. SEE DETAIL B/L-500 FOR TYPICAL DETAIL. ALTERNATE 1: LIMESTONE BOULDER WALL TO BE CONSIDERED

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SEE DETAIL J/L-500. CONCRETE CURB TRANSITIONS TO FLUSH HEADER TO BE 3:1 SLOPING WHERE SHOWN

DRAINAGE PIPE DAYLIGHT SEE DETAIL F/L-500

ONE-WAY ROAD SIGN TO COMPLY WITH CITY STANDARDS

ACCESSIBLE PARKING SIGN TO COMPLY WITH CITY STANDARDS

SEE DETAIL D/L-500. TRANSITIONS TO 6" CONCRETE **CURB TO BE 3:1 SLOPING WHERE SHOWN**

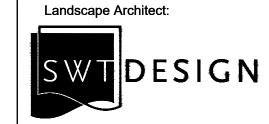
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Prepared For:

#1 Ballwin Commons Circle Ballwin, MO 63011

Ferris Park Improvements



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Ted Spaid - Landscape Architect



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KEY PLAN

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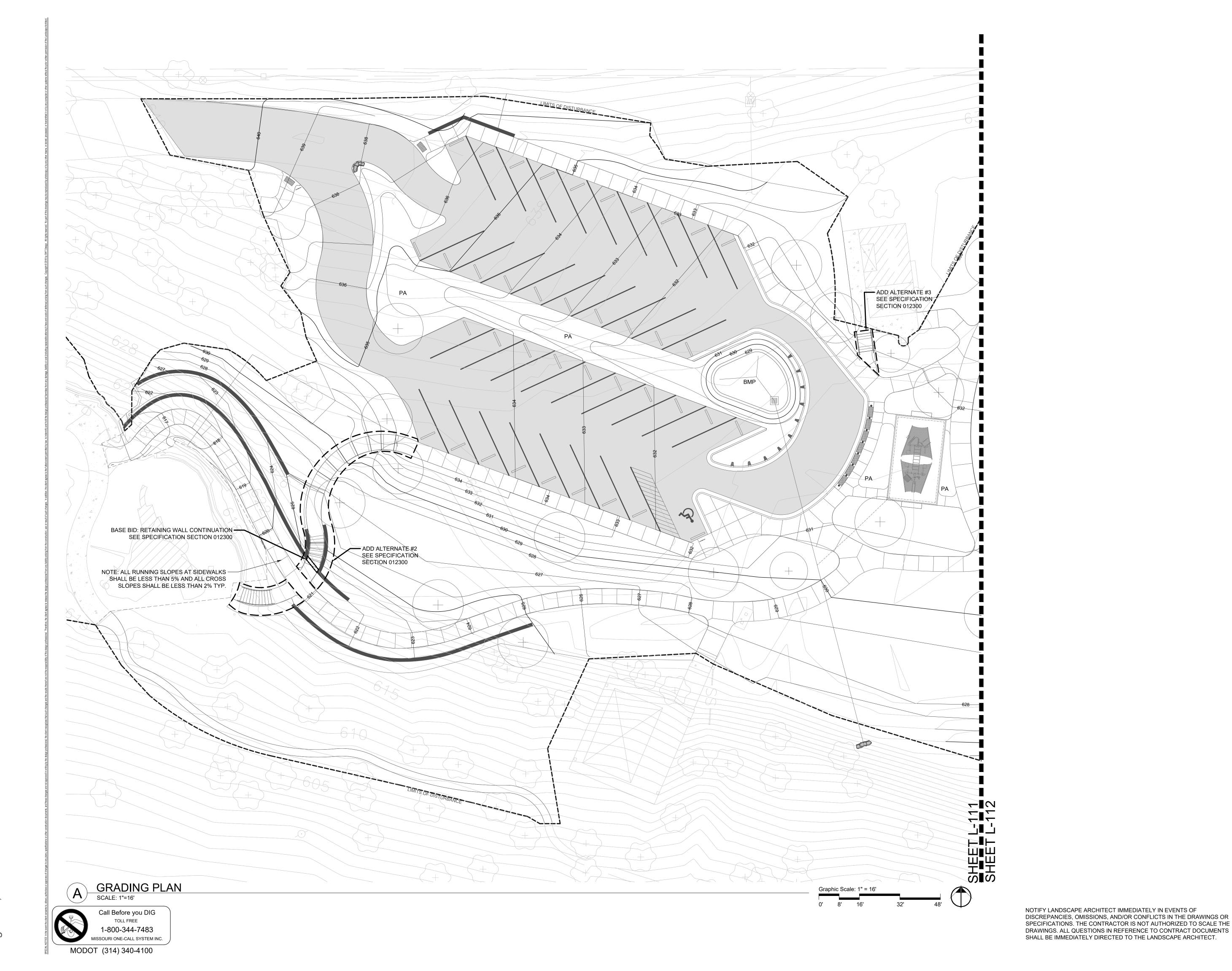
Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

KP/CMB Sheet Title

LAYOUT PLAN

L-112



Prepared For:

Ballwin MISSOUR

#1 Ballwin Commons Circle Ballwin, MO 63011

Project:
Ferris Park
Improvements

Landscape Architect:

SWT DESIGN

7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

Ted Spaid - Landscape Architect



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KEY PLAN

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Revisions

No. Description

SWT No. 20907.01

MSD No. 20MSD-00133

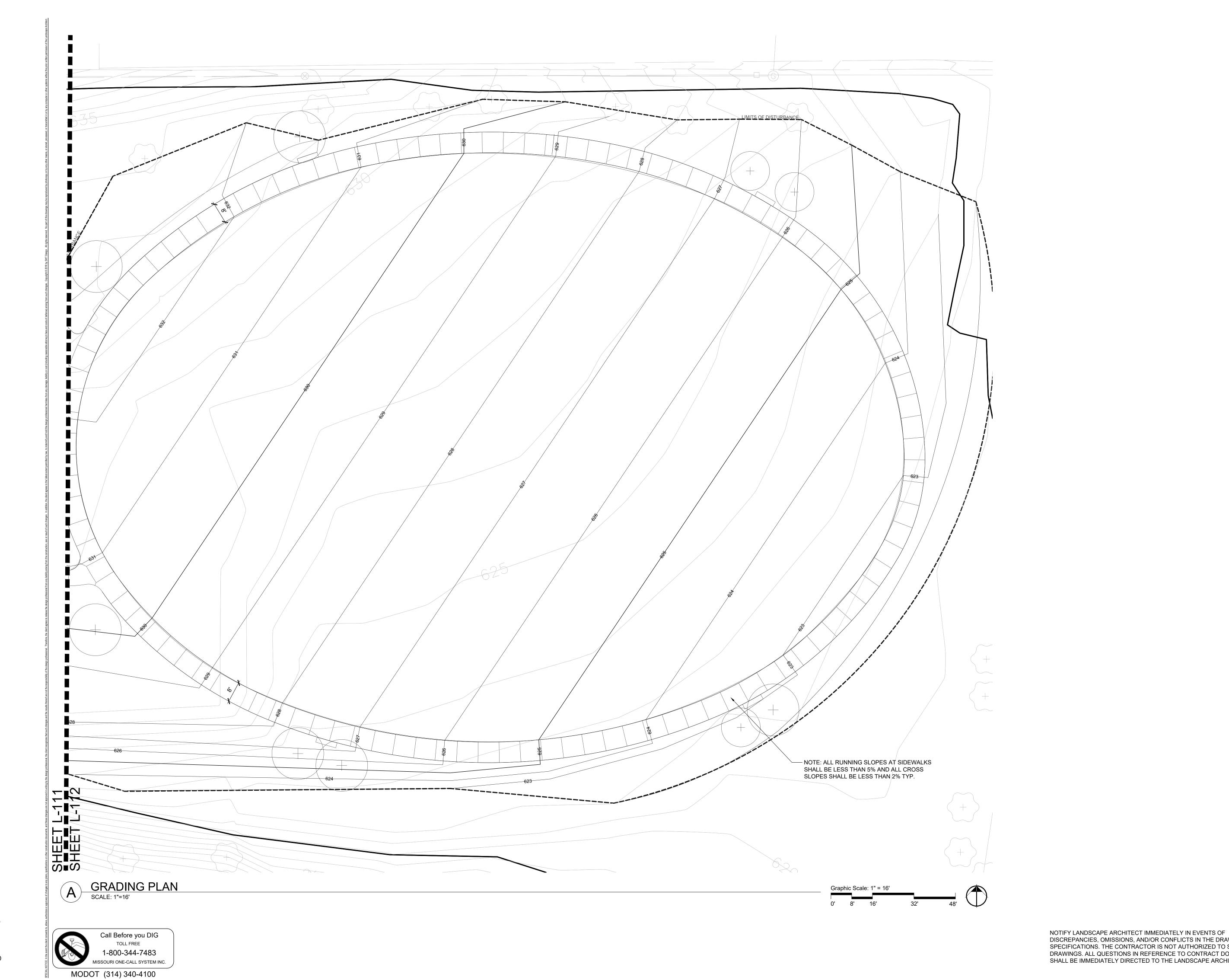
Drawn Revi
KP/CMB JW

Sheet Title

Number

GRADING PLAN

ON ENGINEER



Prepared For:

#1 Ballwin Commons Circle Ballwin, MO 63011

Project: Ferris Park Improvements

Landscape Architect: SWTDESIGN

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Ted Spaid - Landscape Architect MO # LA - 162



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Sheet Title

GRADING PLAN

Number

L-121

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| TREES QTY | | BOTANICAL NAME | COMMON NAME | | |
|-----------|-----------------------|---|-------------------------|--|--|
| AM2 | 3 | Acer rubrum 'October Glory' | October Glory Red Maple | | |
| CA | 2 | Cercis canadensis `Appalachian Red` | Eastern Redbud | | |
| CK | 3 Cladrastis kentukea | | American Yellowwood | | |
| GS | 2 | Gleditsia triacanthos inermis `Shademaster` | Shademaster Locust | | |
| MA | 1 | Magnolia virginiana australis | Sweet Bay | | |
| MP | 2 | Malus x `Prairifire` | Prairifire Crabapple | | |
| QB | 3 | Quercus bicolor | Swamp White Oak | | |
| QR | 3 | Quercus rubra | Red Oak | | |
| UA 4 | | Ulmus parvifolia `Allee` | Allee Lacebark Elm | | |

Prepared For:



#1 Ballwin Commons Circle Ballwin, MO 63011

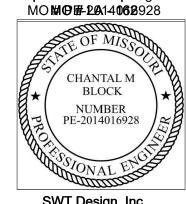
Ferris Park Improvements

CavidEcapieeArchitect:



7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

Teth Spraid Blockend Straip E Agrichiterct
MOMON PEPAN 4062928



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Revisions

02 Project Bid Set

No. Description

SWT No. 20907.01

MSD No. 20MSD-00133

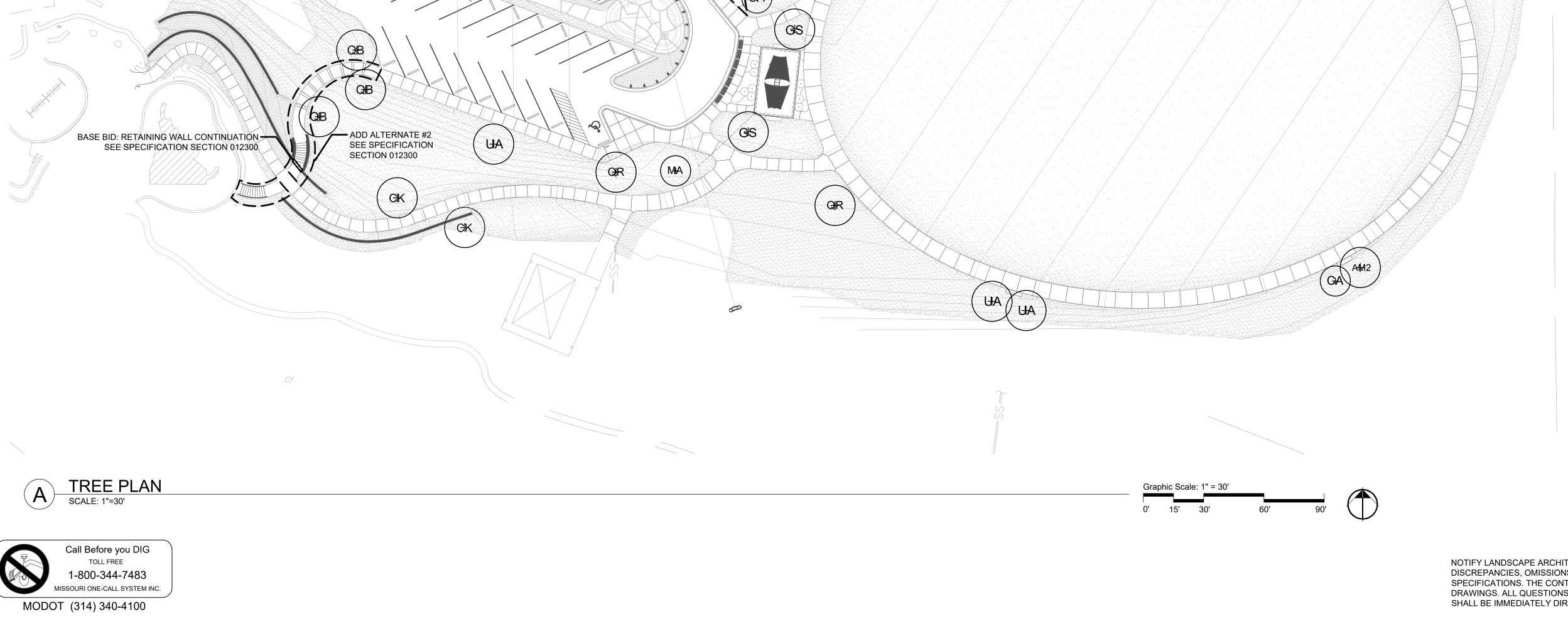
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KP/CMB JW

Sheet Title

TREE PLANTING PLAN

Number

L-140



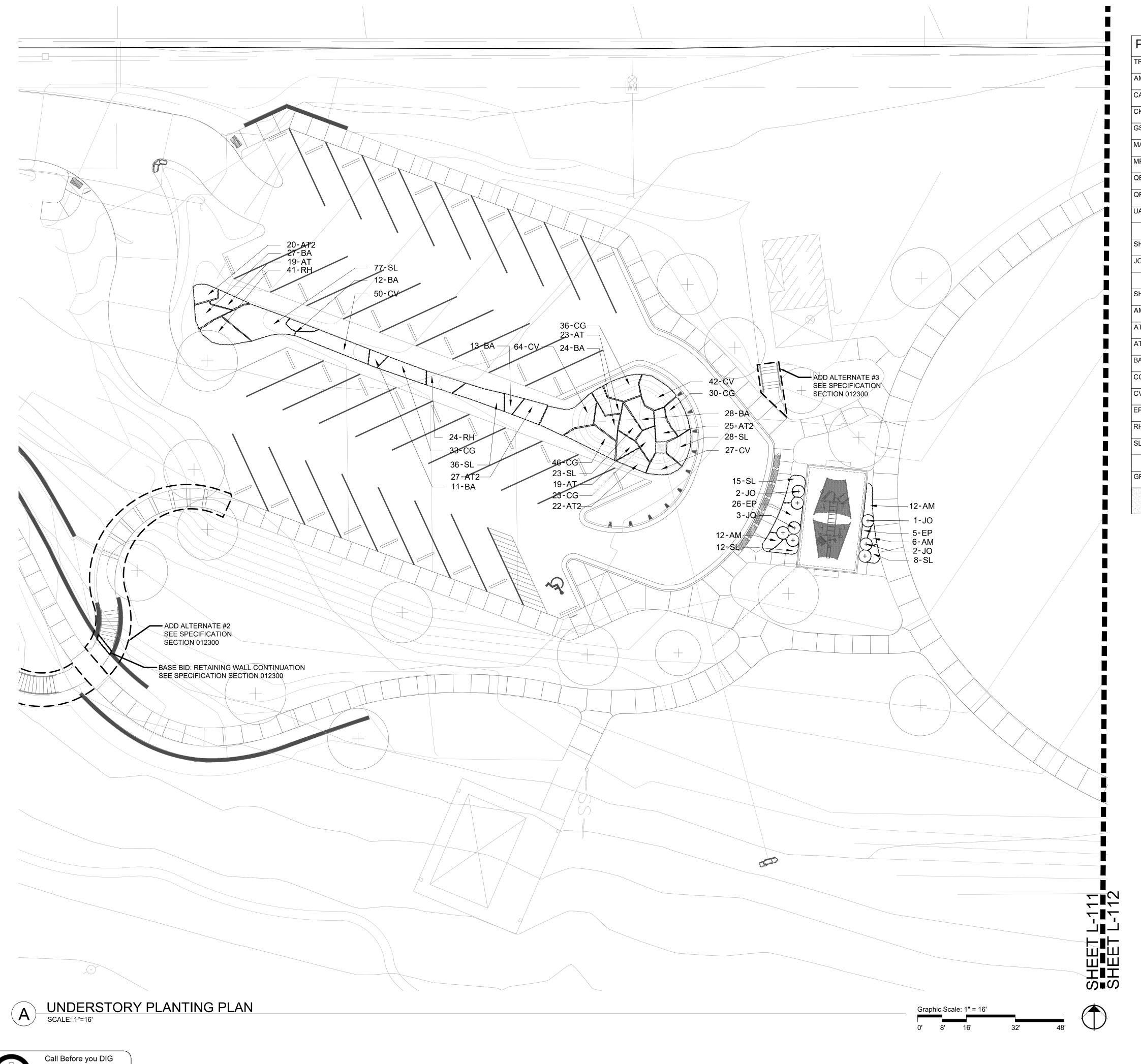
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ADD ALTERNATE #3 SEE SPECIFICATION SECTION 012300

1-800-344-7483

MISSOURI ONE-CALL SYSTEM INC.

MODOT (314) 340-4100



| TREES | QTY | BOTANICAL NAME | COMMON NAME |
|--------------------------|---|--|---|
| AM2 | 3 | Acer rubrum 'October Glory' | October Glory Red Maple |
| CA | 2 | Cercis canadensis `Appalachian Red` | Eastern Redbud |
| СК | 3 | Cladrastis kentukea | American Yellowwood |
| GS | 2 | Gleditsia triacanthos inermis `Shademaster` | Shademaster Locust |
| MA | 1 | Magnolia virginiana australis | Sweet Bay |
| MP | 2 | Malus x `Prairifire` | Prairifire Crabapple |
| QB | 3 | Quercus bicolor | Swamp White Oak |
| QR | 3 | Quercus rubra | Red Oak |
| UA | 4 | Ulmus parvifolia `Allee` | Allee Lacebark Elm |
| | | | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME |
| JO | 8 | Juniperus virginiana `Grey Owl` | Grey Owl Juniper |
| | | | |
| | | | |
| SHRUB AREAS | QTY | BOTANICAL NAME | COMMON NAME |
| | QTY 30 | BOTANICAL NAME Achillea x `Moonshine` | COMMON NAME Moonshine Yarrow |
| AM | | | |
| SHRUB AREAS AM AT AT2 | 30 | Achillea x `Moonshine` | Moonshine Yarrow |
| AM AT | 30 | Achillea x `Moonshine` Amsonia tabernaemontana | Moonshine Yarrow Eastern Bluestar |
| AM AT AT2 BA | 30 61 94 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed |
| AM AT AT2 BA CG | 30 61 94 115 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo |
| AM AT AT2 BA CG CV | 30 61 94 115 168 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis Carex grayi | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo Gray Sedge |
| AM AT AT2 BA CG CV EP | 30 61 94 115 168 183 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis Carex grayi Carex vulpinoidea | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo Gray Sedge Brown Fox Sedge |
| AM AT AT2 BA CG | 30 61 94 115 168 183 31 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis Carex grayi Carex vulpinoidea Echinacea purpurea Rudbeckia hirta | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo Gray Sedge Brown Fox Sedge Coneflower |
| AM AT AT2 BA CG CV EP RH | 30 61 94 115 168 183 31 65 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis Carex grayi Carex vulpinoidea Echinacea purpurea | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo Gray Sedge Brown Fox Sedge Coneflower Black-eyed Susan |
| AM AT AT2 BA CG CV EP RH | 30 61 94 115 168 183 31 65 | Achillea x `Moonshine` Amsonia tabernaemontana Asclepias tuberosa Baptisia australis Carex grayi Carex vulpinoidea Echinacea purpurea Rudbeckia hirta | Moonshine Yarrow Eastern Bluestar Butterfly Milkweed Blue Wild Indigo Gray Sedge Brown Fox Sedge Coneflower Black-eyed Susan |

Prepared For:

#1 Ballwin Commons Circle Ballwin, MO 63011

Project: Ferris Park Improvements

Cavid Ecapine Architect:

SWTDESIGN

7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

TethantaldBloudendScraipEAgichitect



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KEY PLAN

Issuances No.DescriptionDate01Project Review Set04/24/20 02 Project Bid Set

Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133

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UNDERSTORY PLANTING PLAN

Number

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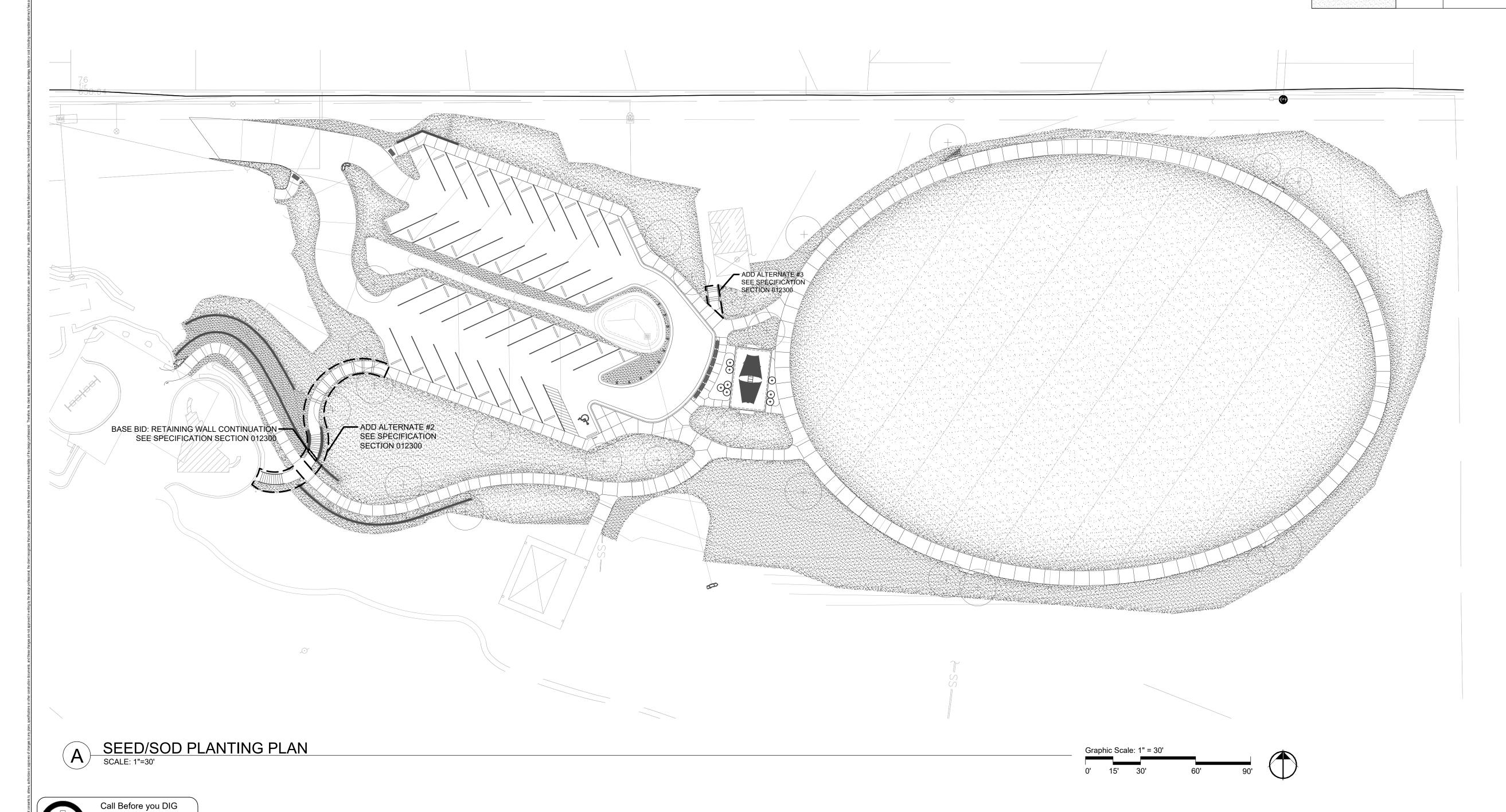
MISSOURI ONE-CALL SYSTEM INC.

MODOT (314) 340-4100



PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME | COMMON NAME |
|---------------|-----------|-------------------------|---------------------------|
| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME |
| | 21,088 sf | Festuca spp. Fescue Mix | Athletic Field Turf Blend |



NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE

SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SOLVE

DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS MSD No.: 20MSD-00133
SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT. BASEMAP: 24S3

Prepared For:

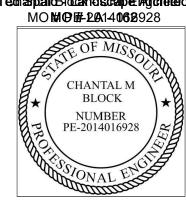
#1 Ballwin Commons Circle Ballwin, MO 63011

Project: Ferris Park Improvements



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TethantaldBloudendScraipEAgichitect



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KEY PLAN

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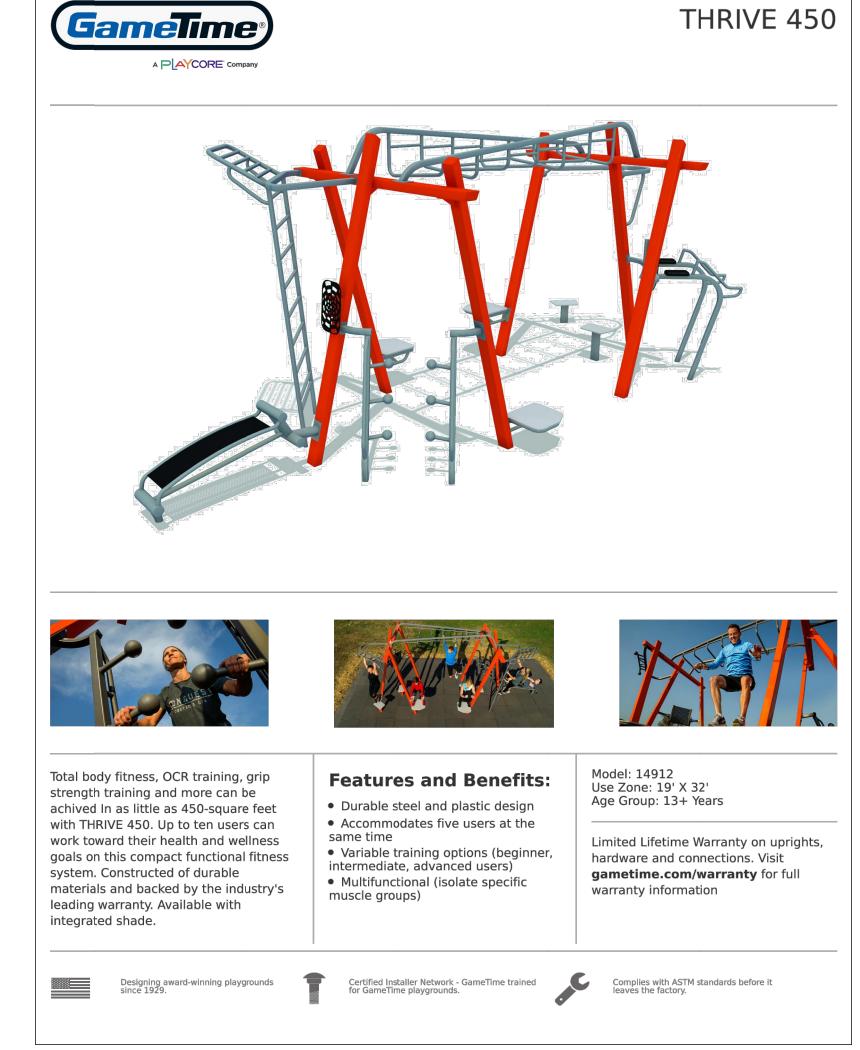
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MSD No. 20MSD-00133 Drawn KP/CMB

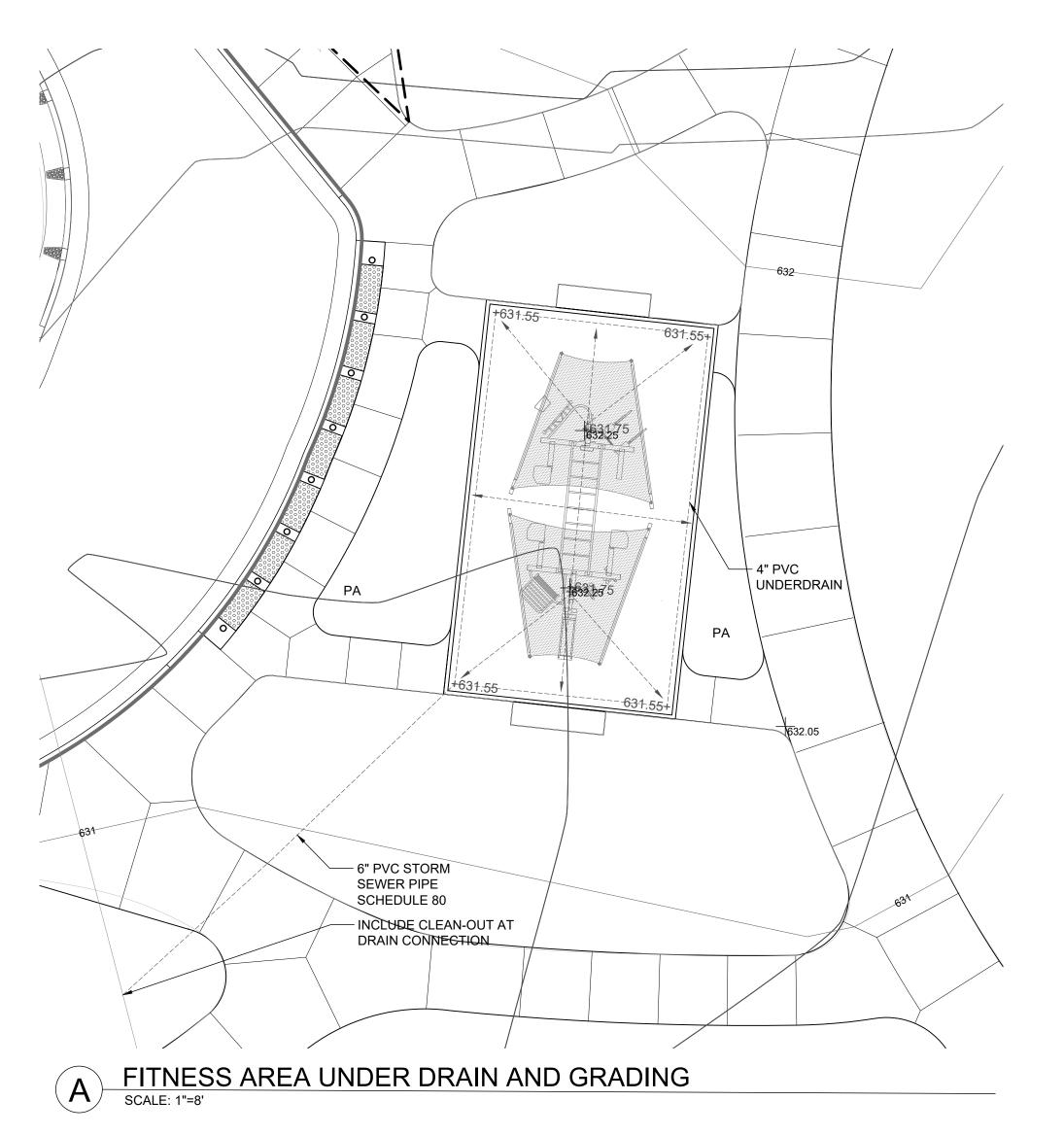
SEED/SOD PLANTING PLAN

Number

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MSD No.: 20MSD-00133

L-190

BASEMAP: 24S3



#1 Ballwin Commons Circle

Project: Ferris Park Improvements

Ballwin, MO 63011

Prepared For:



7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

Ted Spaid - Landscape Architect

Missouri State Certificate of Authority #2006002904

KEY PLAN

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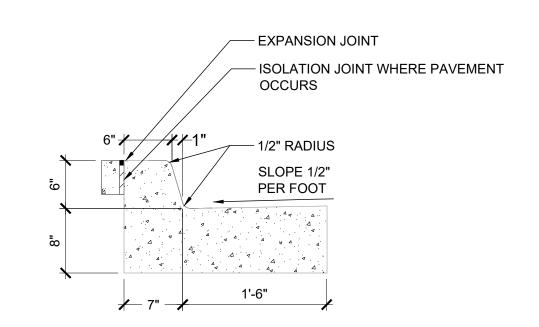
KP/CMB

FITNESS AREA AND UNDERDRAIN LAYOUT

Sheet Title

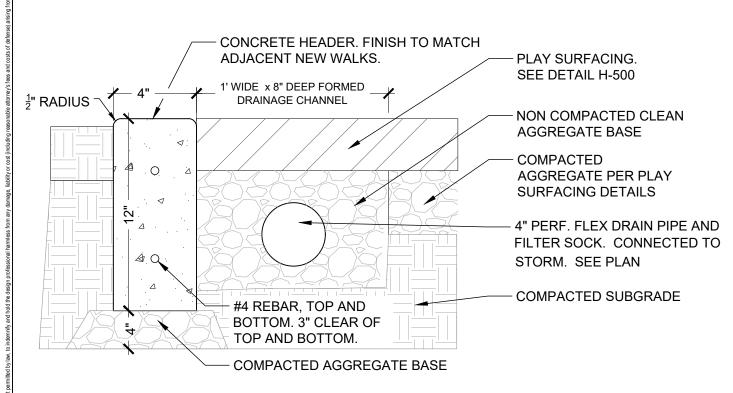
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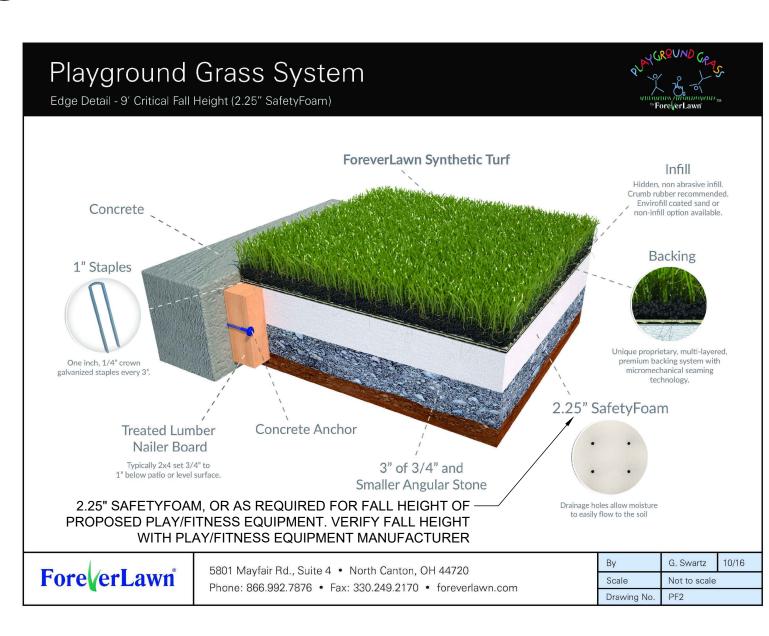
6" CONCRETE CURB AND GUTTER

SCALE: NTS

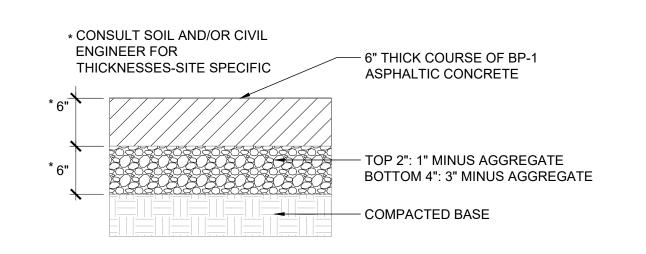


DRAINAGE CHANNEL AND CONCRETE HEADER @ FITNESS STATION

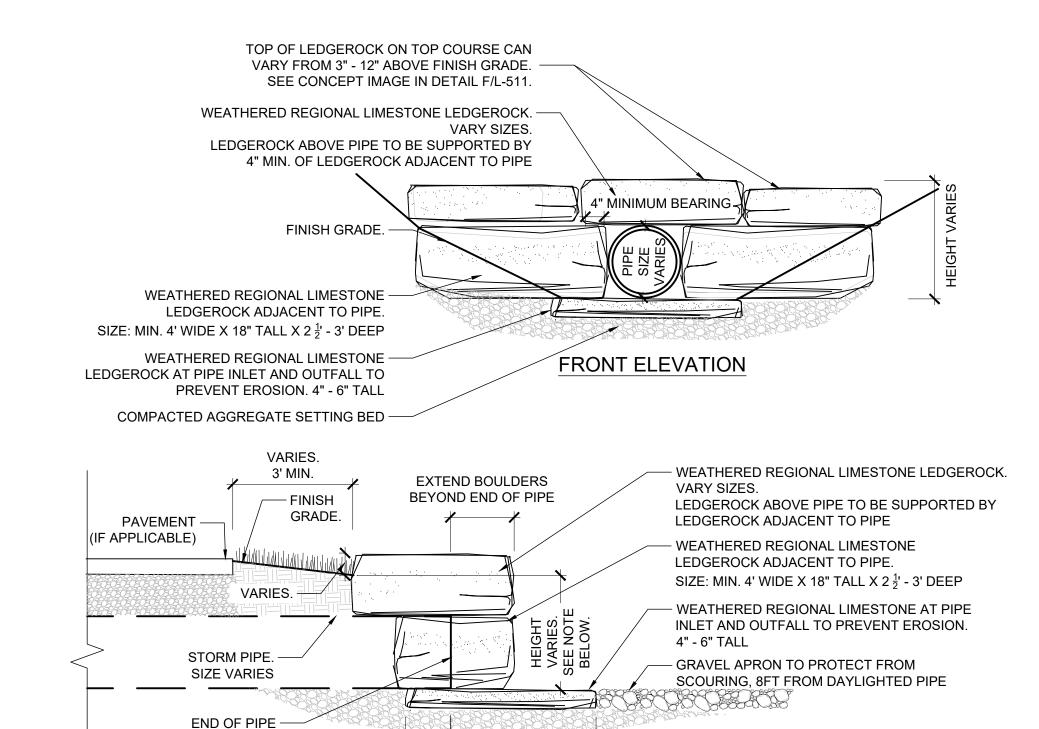
SCALE: NTS



SYNTHETIC TURF AT FITNESS AREA



ASPHALT ROAD PAVEMENT



LEDGEROCK TO

EXTEND

APPROX. 3'

BEYOND PIPE

END

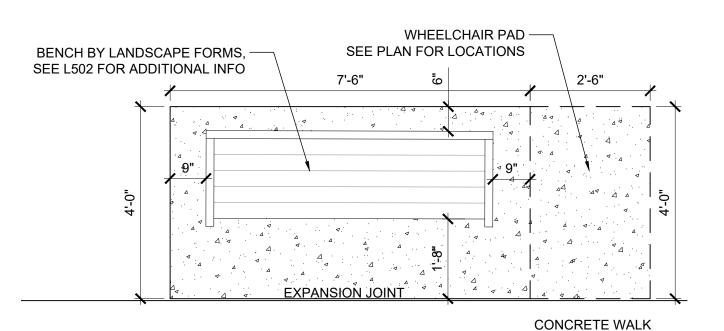
SEE CIVIL STORM SEWER

PROFILES FOR HEIGHT FROM

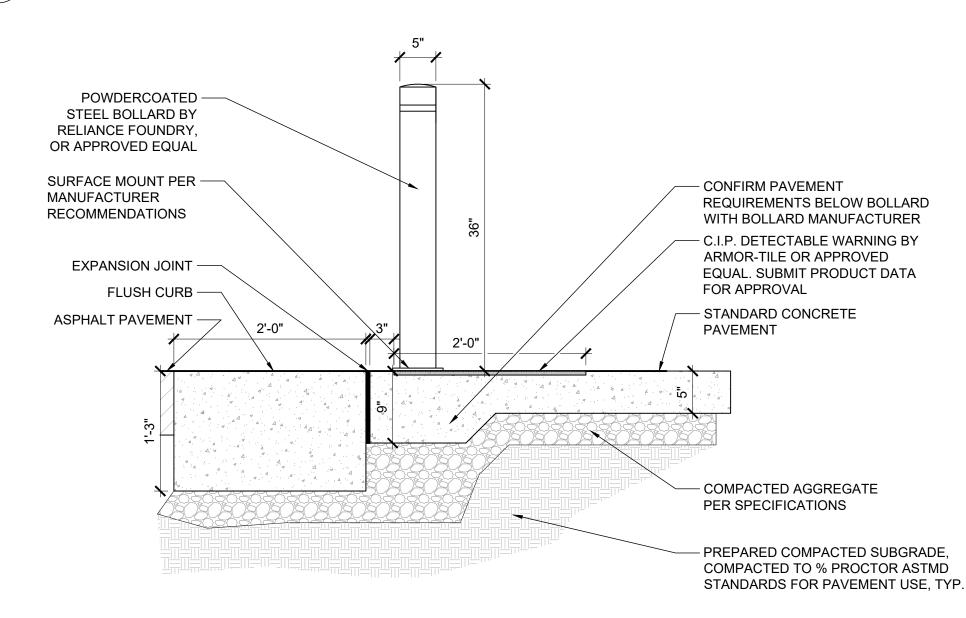
FLOWLINE TO FINISH GRADE

DRAINAGE PIPE DAYLIGHT DETAIL

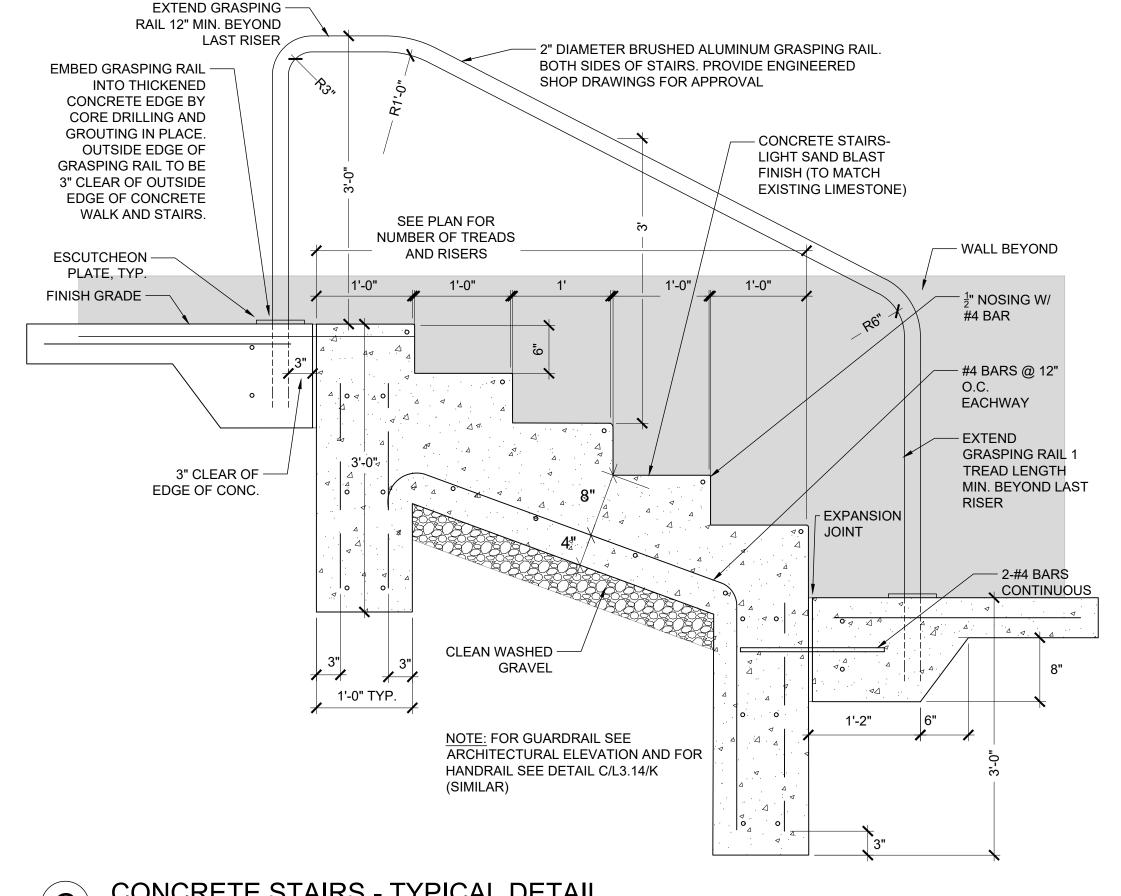
SIDE SECTION



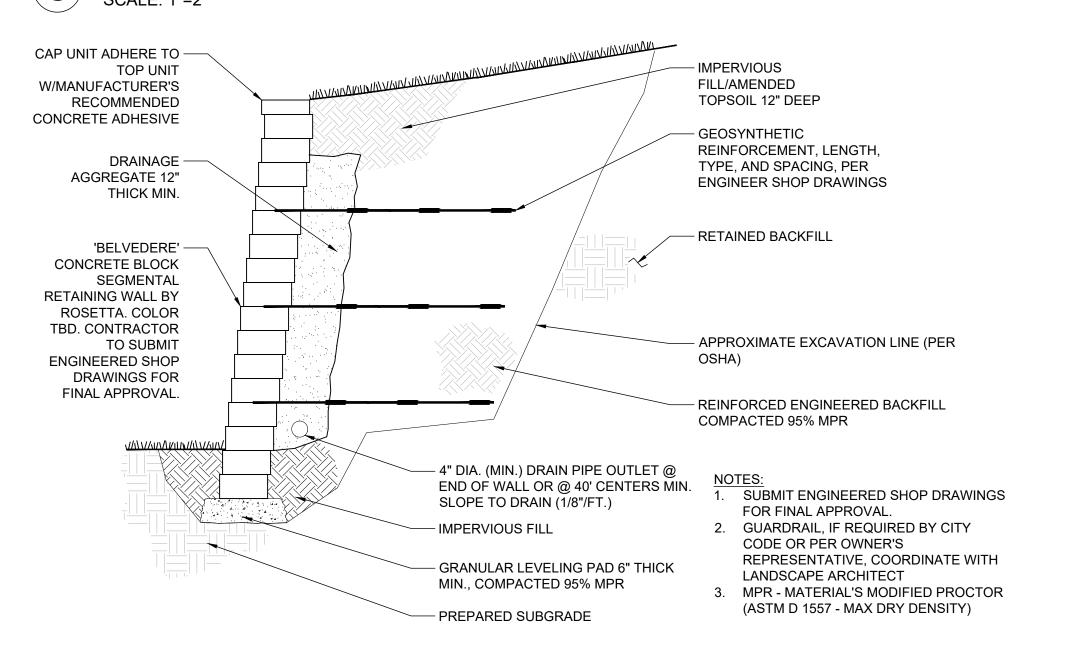
BENCH PAD DETAIL SCALE: NTS



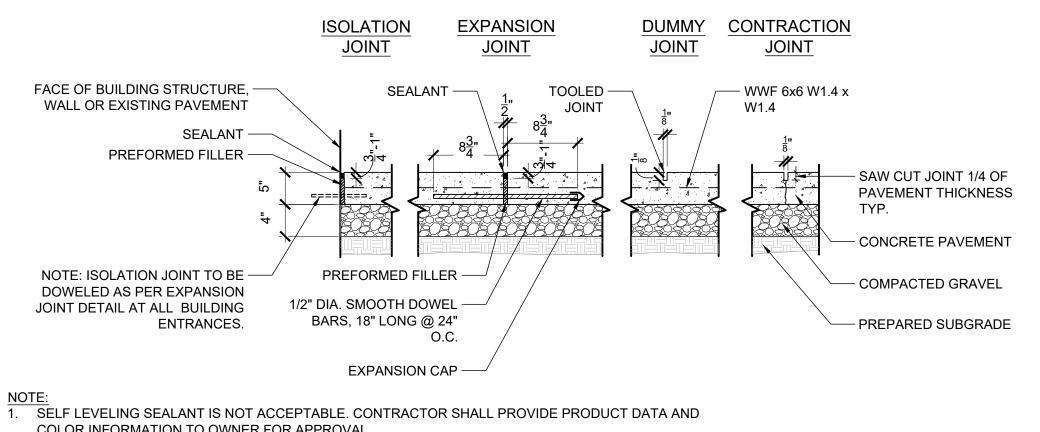
BOLLARD AND DETECTABLE WARNING DETAIL











COLOR INFORMATION TO OWNER FOR APPROVAL

5" THICK CONCRETE PAVING

#1 Ballwin Commons Circle

Ballwin, MO 63011 Ferris Park

Improvements

Prepared For:

Civil Engineer: SWIDESIGN

7722 Big Bend Blvd. St. Louis, MO 63119 t. 314.644.5700

> Missouri State Certificate of Authority #2019038750 KEY PLAN

01 Project Review Set 04/24/20

Issuances

No. Description

02 Project Bid Set

Chantal Block - Civil Engineer

MO # PE-2014016928

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NUMBER

PE-2014016928

SWT Design, Inc.

Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133 KP/CMB

Sheet Title

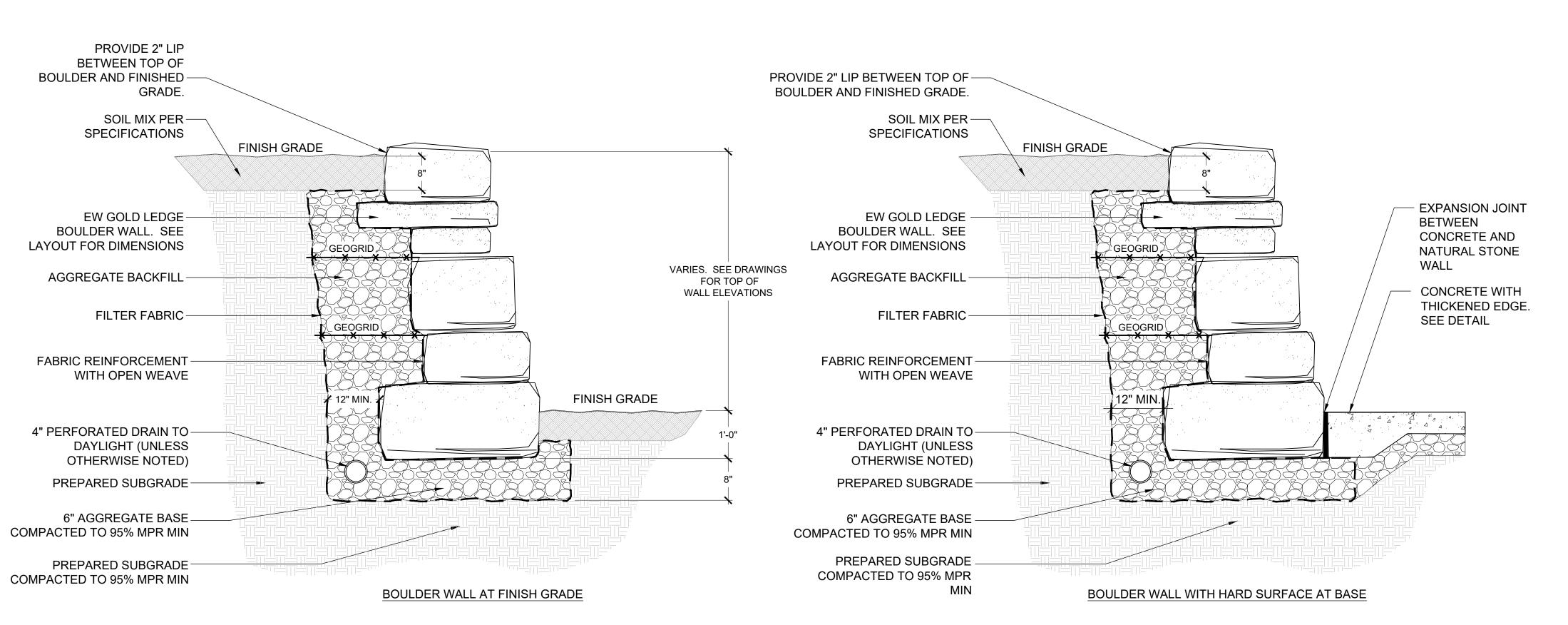
DETAILS

Number

L-500

MSD No.: 20MSD-00133 BASEMAP: 24S3 NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.





- BOULDER SHALL BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT AND SHALL BE FROM THE SAME SOURCE.
- 2. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE APPROVAL, DETAILING GEOGRID REQUIREMENTS, STACKED STONES PER DRAWING, AND ANCHORING DETAILS FOR BOULDERS AT WALLS TO BE REVIEWED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI.
- 3. BOULDERS TO BE PHYSICALLY INSPECTED AND APPROVED TO MEET CHARACTER AND QUALITY REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS. CONTRACTOR TO PROVIDE A GLOBAL STABILITY ANALYSIS REPORT SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI.
- 5. MPR = MATERIAL'S MODIFIED PROCTOR (ASTM D 1557 MAX. DRY DENSITY)

LIMESTONE BOULDER WALL (ALTERNATE #1)
SCALE: NTS

Prepared For:

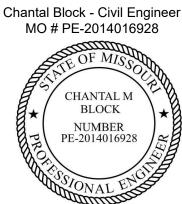
#1 Ballwin Commons Circle Ballwin, MO 63011

Ferris Park Improvements

Civil Engineer: SWIDESIGN

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KEY PLAN

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01 Project Review Set 04/24/20

Revisions No. Description

02 Project Bid Set

SWT No. 20907.01 MSD No. 20MSD-00133

Drawn KP/CMB

> Sheet Title **DETAILS**

-VARIES-

18" MAX. PONDING WQ STORM

NOTCHED CURB

A BIORETENTION TYPICAL SECTION NOT TO SCALE

CURB STOP —

SLOPE Prepared For:

#1 Ballwin Commons Circle Ballwin, MO 63011

Ferris Park Improvements

Civil Engineer: SWTDESIGN

7722 Big Bend Blvd. St. Louis, мо 63119 t. 314.644.5700

> Chantal Block - Civil Engineer MO # PE-2014016928

BLOCK NUMBER PE-2014016928 SWT Design, Inc. Missouri State Certificate of

Authority #2019038750

KEY PLAN

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Revisions No. Description

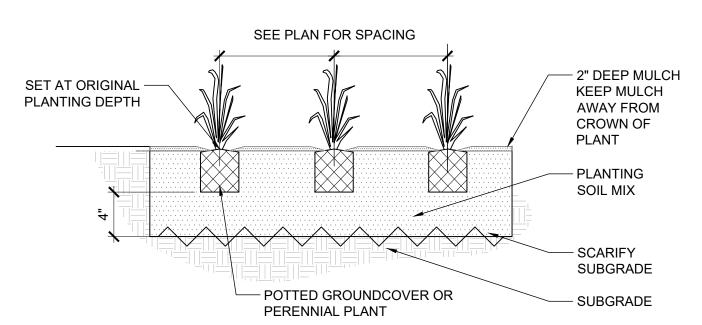
SWT No. 20907.01 MSD No. 20MSD-00133 KP/CMB

> Sheet Title CIVIL DETAILS

| TREES | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
|---------------|-----------|---|---------------------------|----------|--------|---|
| AM2 | 3 | Acer rubrum 'October Glory' | October Glory Red Maple | As Shown | 3"Cal | Per Details, B&B |
| CA | 2 | Cercis canadensis `Appalachian Red` | Eastern Redbud | As Shown | 2"Cal | Per Details, B&B |
| CK | 3 | Cladrastis kentukea | American Yellowwood | As Shown | 2"Cal | Per Details, B&B |
| GS | 2 | Gleditsia triacanthos inermis `Shademaster` | Shademaster Locust | As Shown | 3"Cal | Per Details, B&B |
| MA | 1 | Magnolia virginiana australis | Sweet Bay | As Shown | 8` Ht. | Per Details, B&B Multi-Stem (3-5 Trunks) 24" Rootball Depth Max |
| MP | 2 | Malus x `Prairifire` | Prairifire Crabapple | As Shown | 2"Cal | Per Details, B&B |
| QB | 3 | Quercus bicolor | Swamp White Oak | As Shown | 3"Cal | Per Details, B&B |
| QR | 3 | Quercus rubra | Red Oak | As Shown | 3"Cal | Per Details, B&B |
| UA | 4 | Ulmus parvifolia `Allee` | Allee Lacebark Elm | As Shown | 3"Cal | Per Details, B&B |
| | | | | | | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
| JO | 8 | Juniperus virginiana `Grey Owl` | Grey Owl Juniper | 3` O.C. | | |
| | | | 1 | | | |
| SHRUB AREAS | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
| AM | 30 | Achillea x `Moonshine` | Moonshine Yarrow | 18" O.C. | #1 | |
| AT | 61 | Amsonia tabernaemontana | Eastern Bluestar | 18" O.C. | #1 | Per Details, Cont. |
| AT2 | 94 | Asclepias tuberosa | Butterfly Milkweed | 18" O.C. | SP2 | Per Details, Cont. |
| ВА | 115 | Baptisia australis | Blue Wild Indigo | 18" O.C. | SP2 | |
| CG | 168 | Carex grayi | Gray Sedge | 18" O.C. | SP2 | Per Details, Cont. |
| CV | 183 | Carex vulpinoidea | Brown Fox Sedge | 18" O.C. | SP2 | Per Details, Cont. |
| EP | 31 | Echinacea purpurea | Coneflower | 18" O.C. | #1 | Per Details, Cont. |
| RH | 65 | Rudbeckia hirta | Black-eyed Susan | 18" O.C. | SP2 | Per Details, Cont. |
| SL | 199 | Schizachyrium scoparium | Little Bluestem Grass | 18" O.C. | Plug | |
| | | | | | | |
| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | TYPE | - | COMMENTS |
| | 21,088 sf | Festuca spp. Fescue Mix | Athletic Field Turf Blend | #1 | | |

| TREES | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
|---------------|-----------|---|---------------------------|----------|--------|--|
| AM2 | 3 | Acer rubrum 'October Glory' | October Glory Red Maple | As Shown | 3"Cal | Per Details, B&B |
| CA | 2 | Cercis canadensis `Appalachian Red` | Eastern Redbud | As Shown | 2"Cal | Per Details, B&B |
| CK | 3 | Cladrastis kentukea | American Yellowwood | As Shown | 2"Cal | Per Details, B&B |
| GS | 2 | Gleditsia triacanthos inermis `Shademaster` | Shademaster Locust | As Shown | 3"Cal | Per Details, B&B |
| MA | 1 | Magnolia virginiana australis | Sweet Bay | As Shown | 8` Ht. | Per Details, B&B Multi-Stem (3-5 Trunks) 24" Rootball Depth Max. |
| MP | 2 | Malus x `Prairifire` | Prairifire Crabapple | As Shown | 2"Cal | Per Details, B&B |
| QB | 3 | Quercus bicolor | Swamp White Oak | As Shown | 3"Cal | Per Details, B&B |
| QR | 3 | Quercus rubra | Red Oak | As Shown | 3"Cal | Per Details, B&B |
| UA | 4 | Ulmus parvifolia `Allee` | Allee Lacebark Elm | As Shown | 3"Cal | Per Details, B&B |
| | | | | | | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
| JO | 8 | Juniperus virginiana `Grey Owl` | Grey Owl Juniper | 3` O.C. | | |
| | | | | | | |
| SHRUB AREAS | QTY | BOTANICAL NAME | COMMON NAME | SPACING | SIZE | COMMENTS |
| AM | 30 | Achillea x `Moonshine` | Moonshine Yarrow | 18" O.C. | #1 | |
| AT | 61 | Amsonia tabernaemontana | Eastern Bluestar | 18" O.C. | #1 | Per Details, Cont. |
| AT2 | 94 | Asclepias tuberosa | Butterfly Milkweed | 18" O.C. | SP2 | Per Details, Cont. |
| BA | 115 | Baptisia australis | Blue Wild Indigo | 18" O.C. | SP2 | |
| CG | 168 | Carex grayi | Gray Sedge | 18" O.C. | SP2 | Per Details, Cont. |
| CV | 183 | Carex vulpinoidea | Brown Fox Sedge | 18" O.C. | SP2 | Per Details, Cont. |
| EP | 31 | Echinacea purpurea | Coneflower | 18" O.C. | #1 | Per Details, Cont. |
| RH | 65 | Rudbeckia hirta | Black-eyed Susan | 18" O.C. | SP2 | Per Details, Cont. |
| SL | 199 | Schizachyrium scoparium | Little Bluestem Grass | 18" O.C. | Plug | |
| | _1 | | | | | |
| GROUND COVERS | QTY | BOTANICAL NAME | COMMON NAME | TYPE | - | COMMENTS |
| | 21 000 of | Footuge one Foogue Mix | Athletic Field Turf Bland | #1 | | |

| SPACING "D" | ROW "A" | NUMBER OF PLANTS/SQ. FT. |
|---|---------|--|
| 18" | 15.6" | .450 |
| 15" | 13.0" | .640 |
| 12" | 10.4" | 1.00 |
| 10" | 8.66" | 1.44 |
| 8" | 6.93" | 2.25 |
| 6" | 5.19" | 4.00 |
| + A A A A A A A A A A A A A A A A A A A | + | PLANT CENTER PLANT ROW PLANT SPACING |



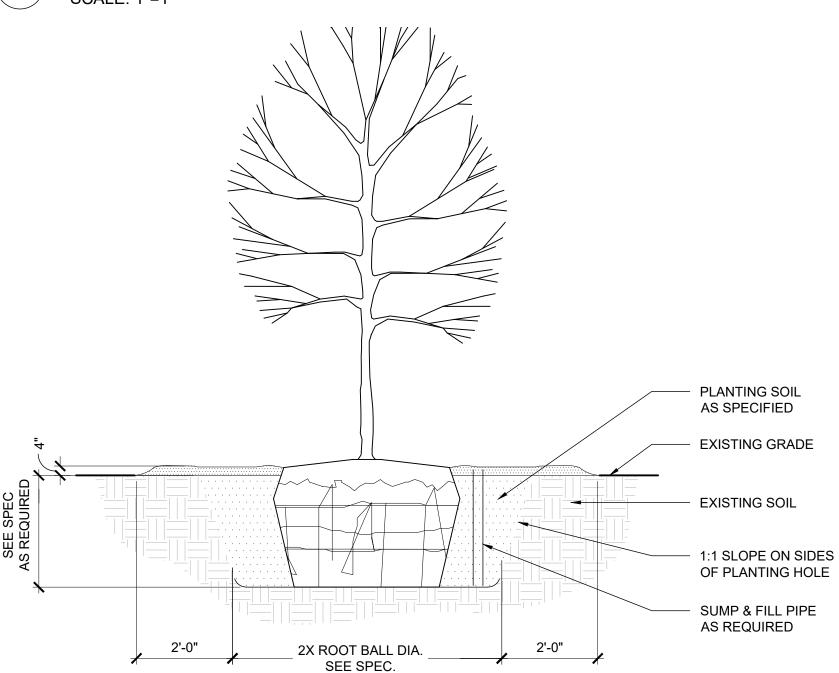
1. REMOVE SPENT FLOWERS PRIOR TO PLANTING.

2. LOOSEN ROOT MASS AT BOTTOM OF ROOT BALL.

3. TOP OF ROOT BALL STRIPPED OF $\frac{1}{4}$ " SURFACE GROWING MEDIA AND COVERED WITH $\frac{1}{4}$ " LANDSCAPE BED MIX PLUS SURFACE MULCH.

4. GROUNDCOVER SPACING SHALL BE AS NOTED IN PLANTING SCHEDULE.

GROUNDCOVER/PERENNIAL PLANTING E SCALE: 1"=1'



THIS DETAIL APPLIES TO ALL TREE TYPES, CANOPY, FLOWERING, AND EVERGREEN TREES. 2. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

3. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8 IN. INTO PLANTING HOLE. 4. WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. SEE WRAPPING DETAIL.

5. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER

POSSIBLE. 6. SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 IN. HIGHER IN SLOWLY DRAINING SOILS.

7. 2 IN. MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. MULCH RING 6 FT. DIAMETER MINIMUM, 8FT. DIAMETER PREFERRED.

8. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT SEE STAKING DETAIL.

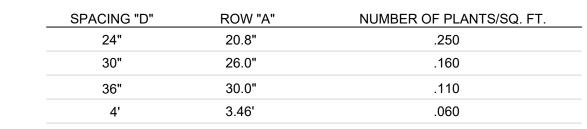
9. PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.

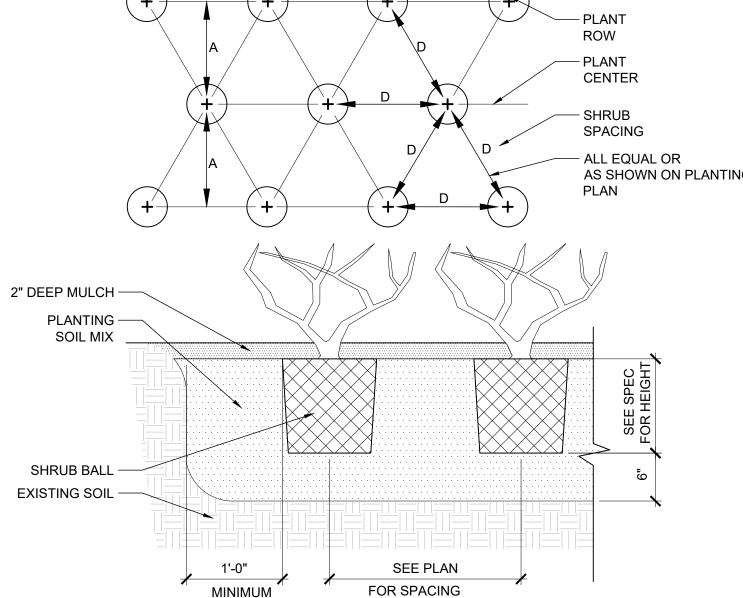
10. TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT. 11. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH

12. 4 INCHES (100MM) HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL.

13. REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL





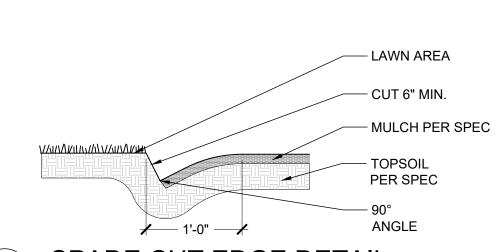


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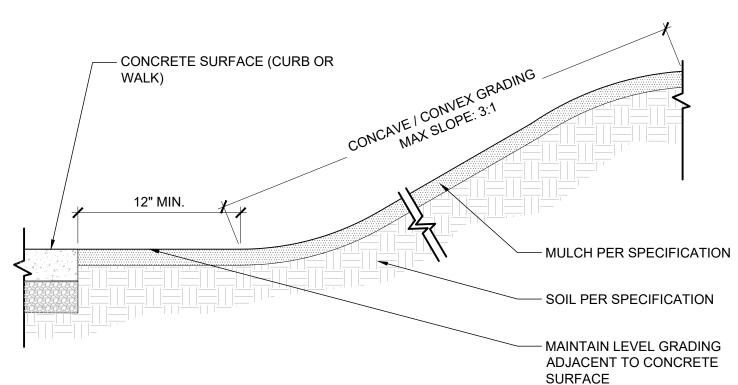
1. SHRUB SPACING SHALL BE AS NOTED IN PLANTING SCHEDULE.

2. IF SHRUBS ARE B&B, ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP $\frac{1}{3}$ OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED.

SHRUB PLANTING



SPADE CUT EDGE DETAIL
SCALE: 1"=1" (B)



NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS MSD No.: 20MSD-00133 SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.

BASEMAP: 24S3

Prepared For:

#1 Ballwin Commons Circle

Ballwin, MO 63011

Ferris Park Improvements

Civil Engineer: SWIDESIGN

7722 Big Bend Blvd. St. Louis, MO 63119 t. 314.644.5700

Chantal Block - Civil Engineer MO # PE-2014016928 CHANTAL M NUMBER PE-2014016928 SWT Design, Inc.

Missouri State Certificate of Authority #2019038750

KEY PLAN

Issuances No. Description 01 Project Review Set 04/24/20

02 Project Bid Set

Revisions No. Description

SWT No. 20907.01 MSD No. 20MSD-00133 Drawn KP/CMB

Sheet Title PLANTING SCHEDULE AND **DETAILS**

Number

L-520

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