PHASE ONE

LAKELAND ATHLETIC COMPLEX 9661 MEMPHIS ARLINGTON ROAD, LAKELAND, TN 38002

CITY MANAGER

SHANE HORN

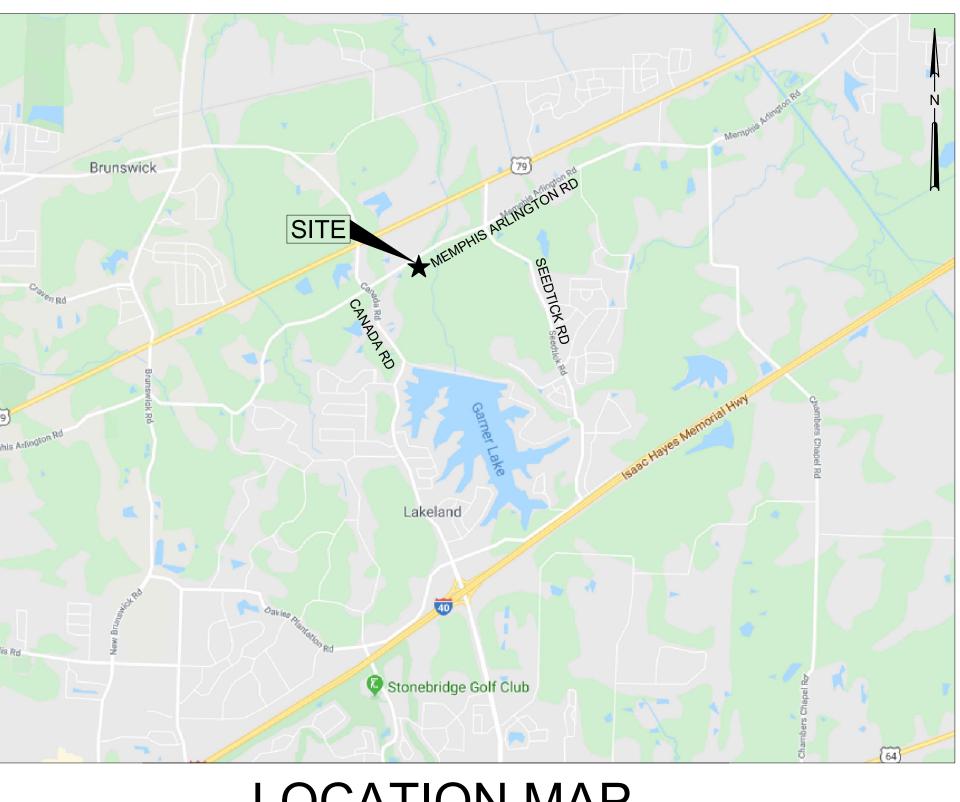
MAYOR & COMMISSIONERS

MIKE CUNNINGHAM, MAYOR MICHELE DIAL, VICE-MAYOR JIM ATKINSON, COMMISSIONER RICHARD GONZALES, JR., COMMISSIONER WESLEY WRIGHT, COMMISSIONER





CITY OF LAKELAND 10001 HIGHWAY 70, LAKELAND, TN



LOCATION MAP NOT TO SCALE

THIS PROJECT IS FUNDED IN PART BY A LOCAL PARKS AND RECREATION FUND GRANT ADMINISTERED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION RECREATION EDUCATIONAL SERVICES DIVISION



60 Germantown Court // Suite 100 // Memphis, Tennessee 38018 PHONE (901) 755-7166 // FAX (901) 755-7844



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CITY ENGINEER

04-20-21 DATE

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BARGE

APR. 21, 2021

PROJECT No.

36953-00

DESIGN SOLUTION



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GENERAL	NOTES
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- 1. THE BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN IS FROM A FIELD SURVEY COMPLETED BY BARGE DESIGN SOLUTIONS ON FEBRUARY 20, 2019.
- 2. ELEVATIONS SHOWN ARE RELATIVE TO NAVD88 DATUM AND WERE ESTABLISHED BY DIFFERENTIAL SURVEY GRADE GPS.
- 3. GRID COORDINATES SHOWN ARE STATE PLANE, TENNESSEE ZONE WITH NO SCALE FACTOR APPLIED. GEODETIC AND GRID COORDINATES ARE RELATIVE TO NAD83 DATUM AND WERE ESTABLISHED BY DIFFERENTIAL SURVEY GRADE GPS.
- 4. NO PORTION OF THIS PROJECT LIES WITHIN THE 100 YR FLOOD PLAN AS INDICATED ON NFIP FIRM MAPS NO. 47157C0215G DATED FEBRUARY 06, 2013.
- GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS PROVIDED BY: GEOTECHNOLOGY INC
- 3312 WINBROOK DR. MEMPHIS, TN 38116
- (901) 353-1981 GEÓTECHNOLOGY PROJECT NO. J032791.01
- 6. VERTICAL CONTROL: CONTROL POINTS SET AND AS SHOWN ON THE PLANS ARE TO BE USED AS THE BASIS FOR VERTICAL CONTROL. VERTICAL DATUM FOR THESE CONTROL POINTS IS NAVD 88. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THESE CONTROL POINTS
- HORIZONTAL CONTROL: MONUMENTATION SHOWN ON THE PLANS ARE TO BE USED AS THE BASIS FOR LAYOUT CONTROL. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THESE CONTROL POINTS.
- THE CONTRACTOR WILL PROVIDE ALL SITE CLEARING STAKING AND PROVIDE COPIES OF THE SAME TO THE A/E. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PROJECT CONTROL AND BENCHMARKS ESTABLISHED IN THE FIELD BY THE OWNER.
- 9. ALL WORK SHALL BE PERFORMED, AS A MINIMUM, TO THE STANDARDS AND REQUIREMENTS OF THE CITY OF LAKELAND UNLESS MORE RESTRICTIVE OR DEMANDING REQUIREMENTS ARE SHOWN HEREON IN WHICH CASE THE MORE RESTRICTIVE OR DEMANDING SHALL APPLY. ALL WORK MUST OBTAIN THE APPROVAL OF THE APPROPRIATE DEPARTMENTS AND/OR AGENCIES OF COUNTY, AND MUST MEET OR EXCEED THE STATE OR FEDERAL REQUIREMENTS, IF IT SO APPLIES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE SITE AND EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID.
- 11. THE OWNER AND ENGINEER MAKE NO REPRESENTATIONS ABOUT THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY CONDUCTING ON-SITE INSPECTIONS.
- 14. CONTRACTOR TO MAINTAIN AND PROTECT AS NECESSARY ALL EXISTING STRUCTURES, FACILITIES, APPURTENANCES, INFRASTRUCTURE (E.G. PIPES, CULVERTS, CONDUITS, WIRES), PROPERTY, OR OTHER ITEMS TO REMAIN. ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. AT NO ADDITIONAL COST, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING FACILITIES TO A CONDITION EQUAL OR BETTER THAN EXISTING. ABOVE OR BELOW GROUND. THAT MAY OCCUR
- 15. THE CONTRACTOR SHALL PROVIDE DUST CONTROLS AT ALL TIMES TO PREVENT DUST FROM LEAVING THE PROJECT LIMITS.
- 16. AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REQUEST HORIZONTAL AND VERTICAL LOCATION INFORMATION FROM ALL UTILITIES WITHIN PROXIMITY OF ALL WORK. AT TIME OF REQUEST CONTRACTOR SHALL DISCLOSE SCOPE OF CONSTRUCTION ACTIVITIES AND SCHEDULES FOR COORDINATION WITH UTILITIES.
- 17. APPROXIMATE LOCATIONS, DIMENSIONS AND ELEVATIONS OF SHOWN EXISTING PUBLIC OR PRIVATE UTILITIES, STRUCTURES, AND OTHER FEATURES IN THESE CONSTRUCTION PLANS ARE SHOWN ACCORDING TO THE BEST INFORMATION MADE AVAILABLE AT THE TIME OF PREPARATION AND MAY BE INCOMPLETE. THE OWNER AND/OR ENGINEER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. THE EXISTENCE AND EXACT LOCATION OR LOCATIONS OF ALL UTILITIES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES WITH ANY DISCREPANCIES WITH THE INFORMATION SHOWN IN THESE PLANS REPORTED IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF ANY UTILITIES IN THE RELOCATION OF EXISTING FACILITIES, WHERE REQUIRED, AND/OR THE OWNER OR HIS REPRESENTATIVE IN THE ADJUSTMENT OF PROPOSED FACILITIES.
- 18. DISCREPANCIES IN FIELD CONDITIONS, PLAN CONDITIONS, OR CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 19. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF LAKELAND WITH REGARD TO IMPROVEMENTS PROPOSED WITHIN THE PUBLIC RIGHTS-OF-WAY.
- 20. EXTERIOR EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE PLACED PRIOR TO THE START OF ON-SITE GRADING ACTIVITIES. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED AT ANY BORROW SITE LOCATION.
- 21. TRAFFIC CONTROL. IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LAKELAND SHALL BE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY. TRAFFIC CONTROL SHALL CONFORM TO FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICE FOR STREET AND HIGHWAY CONSTRUCTION.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A MAINTENANCE OF TRAFFIC CONTROL PLAN (TCP) FOR ALL CONSTRUCTION WITHIN PUBLIC RIGHTS OF WAY. 23. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND SHALL MAINTAIN A PROGRAM OF SAFETY
- MEETING ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL GOVERNING AGENCIES DURING ALL PHASES OF CONSTRUCTION AND AT ALL TIMES UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER
- 24. THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT. ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THIS RESPONSIBILITY. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF THEIR PERSONNEL.
- 25. KEEP SITE NEAT AND CLEAN AT ALL TIMES. CONTINUOUSLY REMOVE DEBRIS AND LEGALLY DISPOSE OF UNSUITABLE MATERIAL. BURNING OF MATERIALS ON SITE IS PROHIBITED. 26. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN AND MAKE HIS/HER BID BASED ON THOSE
- VERIFICATIONS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- 27. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH TDOT STANDARD ROADWAY DRAWINGS, LATEST EDITION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL TRANSPORTATION REQUIREMENTS. ALL ADA RÉQUIREMENTS. BOTH SIGNAGE AND MARKINGS WILL BE PER THE LATEST ADA CRITERIA USING THE APPROPRIATE COLORED TRAFFIC PAINT.
- 28. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
- 29. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE DEMOLITION AREA TO FULLY UNDERSTAND THEIR RESPONSIBILITY FOR REMOVAL OF ALL PAVEMENT, SURFACE STRUCTURES, VEGETATION, TREES AND ALL UTILITIES BOTH SURFACE AND SUBSURFACE. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECT'S PLANS FOR SPECIFIC CLEARING SPECIFICATIONS.
- 30. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

DEMOLITION & CLEARING NOTES

- MEANS AND METHODS ARE RESPONSIBILITY OF CONTRACTOR.
- 3. COORDINATE WITH OWNER THE EXACT LIMITS OF DEMOLITION/CLEARING AND ITEMS TO BE REMOVED. 4. WHERE EXISTING PAVEMENT IS CUT, IT SHALL BE CUT IN A NEAT, STRAIGHT LINE THROUGH PAVEMENT
- AND BASE.
- 5. KEEP SITE CLEAN AND NEAT AT ALL TIMES.
- 6. USE OF EXPLOSIVES WILL NOT BE PERMITTED.
- 7. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED
- 8. CONDUCT DEMOLITION AND CLEARING OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES 9. COST OF ALL DISPOSAL, PERMITTING, AND ASSOCIATED EXPENSES SHALL BE CONTRACTOR'S RESPONSIBILITY
- 10. PROVIDE OWNER WITH TWO COPIES OF ANY WRITTEN CERTIFICATIONS WITH ORIGINAL SIGNATURES FROM DISPOSAL FACILITY, TO WHICH DISPOSED MATERIAL WAS TRANSPORTED, THAT ANY RUBBLE AND DEBRIS FROM DEMOLITION OR REMOVAL WAS DISPOSED OF IN SAID LAWFUL MANNER.
- 11. KEEP SITE SECURE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR SECURING ALL MATERIALS, SUPPLIES, AND EQUIPMENT STORED ON SITE.
- 12. ALL ACCESS TO SITE SHALL BE THROUGH GATES. GATES SHALL BE KEPT LOCKED WHEN THERE IS NO ACTIVITY
- 13. MULCH ALL BARE AREAS IMMEDIATELY FOLLOWING INITIAL CLEARING AND GRUBBING PROCEDURES.
- ANY DISTURBED AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER BEING DISTURBED 14. CONTRACTOR SHALL NOTIFY LOCAL FIRE OFFICIALS AND OBTAIN ALL NECESSARY PERMITS BEFORE BURNING INCLUDING BUY NOT LIMITED TO A TENNESSEE DIVISION OF FORESTRY BURN PERMIT CONTRACTOR SHALL COMPLY WITH LOCAL AND STATE FIRE CODES AND SEASONAL BURN BANS. BURN BANS SHALL NOT BE GROUNDS FOR DELAY OF PROJECT.
- 15. ALL INITIAL EROSION AND SEDIMENT CONTROL PRACTICES AND TREE PROTECTION MEASURES SHALL BE IN PLACE PRIOR TO START OF DEMOLITION/CLEARING OR LAND DISTURBANCE ACTIVITIES.
- 16. DEMOLITION/CLEARING WORK SHALL BE COORDINATED WITH ALL ADJACENT USES. ALL DEMOLITION AREAS SHALL BE SECURED TO ALLOW SAFE ACCESS ONLY TO CONSTRUCTION PERSONNEL
- 17. CONTRACTOR SHALL FULLY REMOVE AND DISPOSE OF ALL NON-VEGETATED WASTE MATERIALS OFFSITE IN ACCORDANCE WITH ALL LEGAL REQUIREMENTS UNLESS NOTED OTHERWISE 18. CONTRACTOR TO COORDINATE SHUT-OFF AND REROUTING OF ANY SITE UTILITIES WITH LOCAL
- ENTITIES HAVING JURISDICTION.
- 19. ADDITIONAL SPECIFIC TREE REMOVAL/PROTECTION AND DEMOLITION NOTES ARE CONTAIN ON RESPECTIVE SHEETS HEREIN.

SITE NOTES

- SUB-SECTIONS ENTITLED "BASIS FOR PAYMENT" SHALL NOT BE APPLICABLE.
- 2. ALL CONCRETE PERTAINING TO THE SITE PLAN AND RELATED EXTERIOR CONCRETE ITEMS SHALL BE Fc' = 4,000 PSI, AS DEFINED BY ACI STANDARDS, AIR ENTRAINED. THE APPLICABLE PROVISIONS OF ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, SHALL ALSO APPLY
- 3. PAVEMENT MARKINGS FOR LANE LINES SHALL MEET THE REQUIREMENTS OF THE CITY OF LAKELAND, AS WELL AS THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
- 4. ALL WORK SHALL BE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE CITY OF LAKELAND AND STATE AND FEDERAL GOVERNING AGENCIES.
- 5. WHERE EXISTING PAVEMENT IS CUT, IT SHALL BE CUT IN A NEAT, STRAIGHT LINE THROUGH PAVEMENT AND BASE.
- 6. ALL DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT / EDGE OF GRAVEL AND/OR FACE OF CURB 7. AS INDICATED ON SHEET C0.42, TREE REMOVAL AND PROTECTION PLAN, THE CONTRACTOR SHALL
- PROTECT ANY TREE FROM DAMAGE OR ANY SCARRING BY PLACING PROTECTIVE STAKING AROUND THE SIDES OF THE TREE OF SUFFICIENT AREA TO PROTECT THE TRUNK AND ROOT SYSTEMS FROM GRADING DAMAGE
- 8. THE CONTRACTOR SHALL PROVIDE SECURITY FENCING AT THE PERIMETER OF THE SITE AS NEEDED. PROJECT ACCESS IS TO BE PROVIDED AS SHOWN HEREIN AT THE PROPOSED CONSTRUCTION ENTRANCE AND SHALL BE GATED AND LOCKED OUTSIDE WORK HOURS. SECURITY FENCING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 9. ALL STREETS SHALL REMAIN CLEAR OF OBSTRUCTIONS AT ALL TIMES. ALL CONSTRUCTION EQUIPMENT SHALL BE STORED WITHIN AN AREA OTHER THAN THE EXISTING DRIVEWAY, PARKING TO REMAIN, OR ROADWAY.

SITE LAYOUT NOTES:

- 3. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
- 4. VERIFY LOCATION OF PROPOSED SIDEWALKS AND ENTRANCES WITH OWNER AND ADJUST IN FIELD TO MINIMIZE DISTURBED AREAS AND AVOID CONFLICTS. WALKS AND RAMPS SHALL MEET ALL ADA LATEST **REVISION REQUIREMENTS.**
- 5. TYPICAL PARKING STALL SIZE SHALL BE 9' X 20'.
- 6. ALL RADII ARE 5 FT UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT / EDGE OF GRAVEL AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.

1. COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA. INC. AND U.S. DEPARTMENT OF LABOR. ALL SAFETY

2. PRIOR TO COMMENCING WORK. CONTACT UTILITY OWNERS TO NOTIFY THEM OF WORK IN AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. GIVE NOTIFICATIONS AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND UTILITY.

1. ALL GRADING, EROSION CONTROL, PAVING, PAVING PRODUCTS, CONSTRUCTION METHODS, ETC. ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) EXCEPT HOWEVER, THE VARIOUS

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONAL LAYOUT SURVEYING.
- 2. ALL COORDINATES AND BEARINGS ARE RELATIVE TO PROJECT GRID.

GRADING NOTES

- 1. ALL ELEVATIONS REFER TO VERTICAL DATUM AS INDICATED ON THE SURVEY PROVIDED HEREIN; N.A.V.D. 88 BY BARGE DESIGN SOLUTIONS, DATED FEBRUARY 2019.
- 2. ALL PROPOSED CONTOURS REPRESENT PROPOSED FINISHED SURFACE GRADE AND ANY PROPOSED PROFILES AND/OR CROSS-SECTIONS REPRESENT THE SAME FINISHED SURFACE. CONTRACTOR SHALL ACCOUNT FOR DEPTH OF GROUND COVER (E.G. SOD), AND OTHER LANDSCAPE AND HARDSCAPE FEATURES. ALL AREAS MUST DRAIN WITHOUT ANY NOTICEABLE PONDING. THE CONTRACTOR WILL BE REQUIRED TO REGRADE AND REFINISH ANY AREAS WHICH DO NOT COMPLY WITH POSITIVE DRAINAGE WITHOUT PONDING.
- 3. ALL PROPOSED GRADING SHALL BE CONSIDERED UNCLASSIFIED. IT IS UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR OTHER MATERIALS ON THE DRAWINGS IS NOT AN INDICATION OF CLASSIFIED EXCAVATION.
- 4. STRIP AND STOCKPILE ALL TOPSOIL IN CUT AND FILL AREAS. PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL FOR ALL STOCKPILES. TAKE CARE TO AVOID MIXING SUBSOIL AND OTHER UNSUITABLE MATERIAL WITH THE TOPSOIL.
- 5. COMPLETE ALL CLEARING AND GRUBBING OPERATIONS FOR EXCAVATION AREAS BEFORE STARTING EXCAVATION AND/OR EMBANKMENT OPERATIONS. DISTURB ONLY THOSE AREAS NECESSARY FOR THE CURRENT PHASE OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROTECT ANY AND ALL EXISTING STRUCTURES, PIPES, CULVERTS, CONDUITS, WIRES OR OTHER ITEMS TO REMAIN. HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY DAMAGE THAT MAY RESULT FROM HIS OPERATIONS
- 6. AT ALL TIMES MAINTAIN THE AREA SO IT WILL BE WELL DRAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- 7. INSOFAR AS PRACTICAL USE ALL SUITABLE MATERIAL ON-SITE. MATERIAL MAY BE WASTED OFF-SITE AT NO COST TO THE OWNER WITH APPROVAL OF THE A/E. FURNISH COPIES OF THE PROPERTY OWNER AGREEMENT FOR WASTE SITES ALONG WITH APPROVAL OF UTILITY OWNERS AT THE WASTE SITE AND APPROVAL OF REGULATORY AGENCIES. AT OWNER'S DISCRETION, ROCKS AND BOULDERS MAY BE USED ONSITE FOR LANDSCAPING OR WASTED ON-SITE AS DIRECTED BY OWNER.
- 8. AFTER REMOVAL OF TOPSOIL TO APPROXIMATELY 6" OR GREATER DEPTH, CONSTRUCT EMBANKMENTS BY DISTRIBUTING THE MATERIAL IN SUCCESSIVE, UNIFORM HORIZONTAL LAYERS NO MORE THAN 12" THICK. COMPACT EACH LAYER AND PROVIDE FOR DRAINAGE OF SURFACE WATER AT ALL TIMES. MAINTAIN OPTIMUM MOISTURE CONTENT OF THE BACKFILL MATERIAL
- 9. EXCAVATE AREAS OF YIELDING OR UNSUITABLE MATERIAL AND BACKFILL WITH APPROVED MATERIAL AS DIRECTED BY A/E.
- 10. ALL DISTURBED AREAS ARE TO BE PERMANENTLY VEGETATED. FINISH GRADE AND SPREAD TOPSOIL FROM STOCKPILES ON ALL DISTURBED AREAS EXCEPT BUILDING LOCATIONS AND AREAS TO BE PAVED TO THE FINISHED CONTOUR ELEVATIONS SHOWN ON THE PLANS, SCARIEY SUBGRADE TO A DEPTH OF 3" BEFORE PLACING TOPSOIL, PROVIDE A MINIMUM 4' TOPSOIL THICKNESS ON SUBGRADE, SLOPE UNIFORMLY WITH NO WATER POCKETS. CAREFULLY RAKE THE TOPSOIL BY HAND TO REMOVE ALL CLODS, ROOTS, STICKS, STONES OVER 1" IN DIAMETER AND OTHER FOREIGN MATERIALS FROM THE SURFACE
- 11. COMPACTION OF PAVEMENT AREAS, SLOPES, AND LANDSCAPED AREAS SHOULD BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ALL SUBGRADE PREPARATION AND FILL PLACEMENT REQUIREMENTS. REGARDLESS OF TEST RESULTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ON-SITE COMPACTION REQUIREMENTS. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL GRADING AND COMPACTION UNDER BUILDINGS. UNLESS OTHERWISE NOTED, COMPACT TH EMBANKMENT AREAS TO A DENSITY OF AT LEAST 95% OF MAXIMUM DENSITY OR , IN STRUCTURE OF PAVING AREAS TO AT LEAST 100% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR). PROVIDE SOIL TESTING AT NO COST TO THE OWNER AND PROVIDE COPIES OF THE TEST REPORTS TO THE A/E. REGARDLESS OF THE TEST RESULTS, IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ON-SITE COMPACTION REQUIREMENTS.
- 12. ALL EXCAVATION IS UNCLASSIFIED WITHOUT REGARD TO MATERIALS ENCOUNTERED. CONTRACTOR SHALL VISIT SITE AND DRAW HIS OWN CONCLUSIONS ON CONDITIONS TO BE ENCOUNTERED. LINE AND GRADES SHOWN SHALL BE ACHIEVED WITHOUT ADDITIONAL COMPENSATION.
- 13. PROOFROLL ALL AREAS TO RECEIVE FILL. PERFORM PROOF ROLLING WITH A FULLY LOADED 8 TO 10 TON TANDEM AXLE DUMP TRUCK AT 2 TO 3 M.P.H. FOR A MINIMUM OF FOUR PASSES. UNDERCUT AREAS THAT DEFLECT MORE THAN 1 INCH OR EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS TO A FIRM LEVEL OF SOIL FOLLOWED BY BACK FILLING UNDERCUT AREAS USING AN ENGINEERED FILL.
- 14. SLOPE ALL DITCHES ACCORDING TO TYPICAL SECTION AND/OR GRADING PLAN.
- 15. PLACE OUTLET PROTECTION ON ALL SPILLWAYS AND PIPE OUTLETS. UNLESS OTHERWISE NOTED. OUTLET PROTECTION TO BE TDOT CLASS A-1 RIP RAP PLACED 18" THICK MIN. INSTALL NON-WOVEN GEOTEXTILE FABRIC BETWEEN SUBGRADE AND RIP RAP.
- 16. PROVIDE POSITIVE AND APPROPRIATE SLOPE TO DRAIN ALL BALCONIES, DECKS, PATIOS, WALKS, DRIVEWAYS, GRADE ADJACENT TO BUILDINGS, AND SWALES, REGARDLESS WHETHER THE PLANS GRAPHICALLY PORTRAIT OR INDICATE SLOPE. FINAL CONSTRUCTION SHALL NOT PERMIT PONDING OF WATER IN ANY OF THE FOREGOING AREAS.
- 17. ALL UNSUITABLE AND DELETERIOUS SUBSTANCE MATERIALS, (I.E. MUCK, PEAT, BURIED DEBRIS, ET IS TO BE EXCAVATED IN ACCORDANCE WITH OWNER'S GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. UNSUITABLE AND DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS RECOMMENDED BY GEOTECHNICAL ENGINEER.
- 18. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- 19. NO DEWATERING IS ANTICIPATED FOR THE PROPOSED CONSTRUCTION. IN THE EVENT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL APPLY FOR ALL APPLICABLE WATER USE PERMITS AT THAT TIME.
- 20. CONTRACTOR IS REQUIRED TO ADJUST ALL VALVE BOXES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH PROPOSED GRADES.
- 21. TESTING OF ASPHALT PAVEMENT SECTIONS BY A CERTIFIED TESTING LAB, INCLUDING CORE SAMPLES, SHALL BE PROVIDED TO ENGINEER FOR EVERY 5,000 SQ FT AREA OF PAVEMENT WITH A MINIMUM OF ONE TEST REQUIRED. CONTRACTOR TO CONFIRM TESTING LOCATIONS WITH ENGINEER PRIOR TO PAVEMENT STRUCTURE CONSTRUCTION. TESTING OF EACH AREA SHALL ADHERE TO CURRENT TDOT STANDARD SPECIFICATIONS. FAILURE TO PROVIDE ENGINEER WITH SATISFACTORY TEST RESULTS WILL PREVENT CONSTRUCTION CERTIFICATION AND DELAY FINAL ACCEPTANCE BY OWNER.
- 22. DURING THE GRADING PROCESS, IF CONTRACTOR ENCOUNTERS DISCOLORED OR MALODOROUS SOILS INDICATING POSSIBLE CONTAMINANTS, GRADING ACTIVITY SHALL CEASE AND THE OWNER AND A/E SHALL BE NOTIFIED IMMEDIATELY.

STORM DRAINAGE NOTES

- 1. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST AND MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR WITH SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
- 2. ALL STORM DRAINAGE PIPE SHALL BE AASHTO M252/M294 HDPE DUAL WALL OR CLASS III RCP, UNLESS OTHERWISE NOTED. ALL DRAINAGE PIPE CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, STANDARDS, DETAILS, GUIDELINES, ETC., AND TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE NOTED
- 3. ALL STORM PIPE TO HAVE A MINIMUM SLOPE OF 1%, UNLESS OTHERWISE INDICATED.
- 4. ALL PIPE JOINTS AND JOINT MATERIAL ARE TO PROVIDE A WATERTIGHT CONNECTION.
- 5. AT ALL TIMES, MAINTAIN THE PROJECT AREA IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REQUIREMENTS AS DEFINED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- 6. AFTER COMPLETION OF EACH SECTION OF PIPE, PROTECT FROM SEDIMENT AND DEBRIS ACCUMULATION INSIDE OF THE PIPE. CLEAN AND FLUSH ALL SEDIMENT FROM THE PIPE AND DISCHARGE IN ACCORDANCE WITH THE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL AFTER INSTALLATION AND DURING THE REMAINDER OF THE CONSTRUCTION PERIOD PROVIDE INLET PROTECTION FOR STORM WATER PIPES AND INLET STRUCTURES WITH SILT FENCE. STAKED STRAW BALES OR OTHER ACCEPTED MEANS TO PREVENT SILT ACCUMULATION IN THE STORMWATER SYSTEM. ANY SEDIMENT, DEBRIS, ETC. THAT ACCUMULATES IN THE PIPE IS TO BE REMOVED PRIOR TO FINAL ACCEPTANCE.
- 7. ALL MANHOLES SHALL BE 4.0' DIA. UNLESS OTHERWISE NOTED ON DRAWINGS.
- 8. ALL PROPOSED CONCRETE INLETS AND/OR CATCH BASINS SHALL HAVE GROUT IN THE SUMP PLACED TO MATCH PIPE INVERTS FOR UNIFORM HYDRAULIC TRANSITION WITH SIDE SLOPES AT $rac{1}{2}$ " PER FOOT. 9. STANDARD INDICES REFER TO THE LATEST EDITION OF TDOT STANDARD DRAWINGS.
- 10. THE CONTRACTOR IS TO PROVIDE A ¹/₂" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT THE ABUTMENT OF CONCRETE AND ANY STRUCTURE

EROSION & SEDIMENT CONTROL NOTES

- 1. THE CONTRACTOR MUST IMPLEMENT ALL PROPER EROSION AND SEDIMENT CONTROL MEASURES FOR THE PROJECT AND MEET ALL LOCAL. STATE, AND FEDERAL REQUIREMENTS.
- 2. ALL WORK UNDER THIS SECTION IS TO BE PERFORMED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE CURRENT VERSION OF THE TENNESSEE EROSION & SEDMENT CONTROL HANDBOOK AND THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) AND CITY OF LAKELAND.
- 3. EROSION AND SEDIMENT CONTROL MEASURES AROUND THE EXTERIOR OF THE SITE SHALL BE INSTALLED PRIOR TO ANY ON-SITE GRADING ACTIVITIES. DURING THE CONSTRUCTION PERIOD ANY PROPOSED DETENTION BASIN FACILITIES SHALL BE USED FOR TEMPORARY SEDIMENT TRAP PURPOSES AND, AS SUCH, SHALL BE CONSTRUCTED FIRST IN A MANNER TO CAPTURE ON-SITE RUNOFF FROM GRADING OPERATIONS AS MUCH AS POSSIBLE. UPON COMPLETION OF THE EXTERIOR EARTHEN EMBANKMENT AROUND THE SEDIMENT BASIN, TOPSOIL, FERTILIZE, SEED AND MULCH THE EXTERIOR EARTHEN EMBANKMENT. IF APPLICABLE. PROVIDE STAKED STRAW BALES AND/OR DIVERSION CHANNELS AS NECESSARY TO ROUTE RUNOFF FROM THE CONSTRUCTION SITE INTO THE TEMPORARY SEDIMENT TRAP. SEDIMENT AND EROSION CONTROL DEVICES ARE TO BE INSPECTED PRIOR TO THE START OF GRADING ACTIVITIES. UPON PROPER STABILIZATION OF THE DISTURBED AREAS THAT DRAIN TO THE SEDIMENT TRAP, CLEAN OUT AND DISPOSE OF ALL SEDIMENT DEBRIS, AND COMPLETE CONSTRUCTION OF THE DETENTION BASIN FACILITIES.
- 4. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO ALL DENUDED AREAS WITHIN 7 DAYS OF REACHING FINAL GRADE OR TO OTHER DENUDED AREAS WHICH ARE TO REMAIN DORMANT FOR LONGER THAN 14 DAYS. ALL TOPSOIL STOCK-PILES SHALL BE STABILIZED OR PROTECTED WITH SILT FENCE SEDIMENT TRAPPING.
- 5. ALL DISTURBED AREAS NOT TO BE PAVED SHALL BE TOP SOILED, FERTILIZED, SEEDED AND MULCHED. AN ACCEPTABLE GROWTH OF GRASS IS REQUIRED IN ALL AREAS DESIGNATED FOR SEEDING. AN ACCEPTABLE GROWTH IS CONSIDERED 100 SEEDLINGS PER SQUARE FOOT OF THE PERMANENT SPECIES OF GRASS OF THE SEED MIXTURE. IF THE PLANTING IS LESS THAN 50% SUCCESSFUL. REWORK THE GROUND, RE-FERTILIZE, RE-SEED AND RE-MULCH. ALL SEEDING MUST MEET THE APPROVAL OF SWMD AND THE A/E.
- 6. THE PROPOSED VEHICULAR ENTRANCE SHALL BE USED AS A TEMPORARY CONSTRUCTION ENTRANCE DURING CONSTRUCTION. NO ACCESS IS TO BE PROVIDED DIRECTLY TO THE PUBLIC RIGHT-OF-WAY WITHOUT AN APPROVED CONSTRUCTION ENTRANCE. PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE WITH 2-3" STONE MAY BE REQUIRED TO PREVENT THE ACCUMULATION OF DUST AND MUD ON THE CITY/COUNTY STREETS.
- 7. THE CONTRACTOR IS REQUIRED TO PREVENT ALL RUNOFF AND SEDIMENT FROM DAMAGING ADJACENT PROPERTIES OR DOWNSTREAM WATER BODIES.
- 8. ON AND OFF-SITE DUST AND MUD TO BE CONTROLLED AT ALL TIMES. THIS MAY REQUIRE PERIODIC ON-SITE WATERING OR OTHER METHODS FOR DUST CONTROL AND PERIODIC WASHING OF THE PUBLIC STREETS AS MAY BE NECESSARY
- 9. SEDIMENT CONTROL DEVICES ARE TO BE PERIODICALLY CLEANED WHEN ACCUMULATION OF SILT IS WITHIN HALF THE HEIGHT OF THE CONTROL DEVICE. THE DEVICES SHALL BE CHECKED WEEKLY AND WITHIN 24 HOURS AFTER EVERY RAINFALL OF 0.5" OR GREATER. IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY, ANY FAILURE OF A CONTROL DEVICE SHALL BE CORRECTED WITHIN 3 DAYS. THE CONTRACTOR WILL KEEP A LOG OF ALL INSPECTIONS AND REPAIR EFFORTS DURING THE CONSTRUCTION PERIOD.
- 10. UPON COMPLETION AND ACCEPTANCE BY THE OWNER OF THE COMPLETED FACILITY, THE OWNER WILL ASSUME A MINIMUM OF SEMI-ANNUAL MAINTENANCE OF THE STORM-WATER FACILITIES. INCLUDING, AS APPLICABLE, THE DETENTION BASIN AND OUTLET WORKS IN CONJUNCTION WITH THE REMAINING STORMWATER PIPING SYSTEM. FURTHER, PERIODIC INSPECTION AND REPAIR OF ANY EROSION OR OTHER POLLUTING ACTS WILL OCCUR. MAINTENANCE LOGS WILL BE MAINTAINED ON-SITE INDICATING DATE, WORK PERFORMED, BY WHOM, AND SIGNED BY THE MAINTENANCE SUPERVISOR OF THE COMPLETED FACILITY.
- 11. UPON FAILURE OF THE BMP'S PROVIDED TO SUCCESSFULLY PREVENT OBJECTIONABLE DOWNSTREAM COLOR CONTRAST, THE CONTRACTOR SHALL UTILIZE POLYACRYLAMIDE OR OTHER FLOCCULATING MATERIALS ACCEPTABLE TO TDEC AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AS AN ADDITIONAL BMP TREATMENT.



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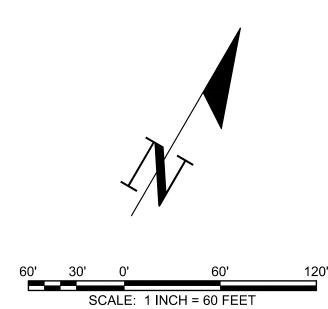
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NOTES

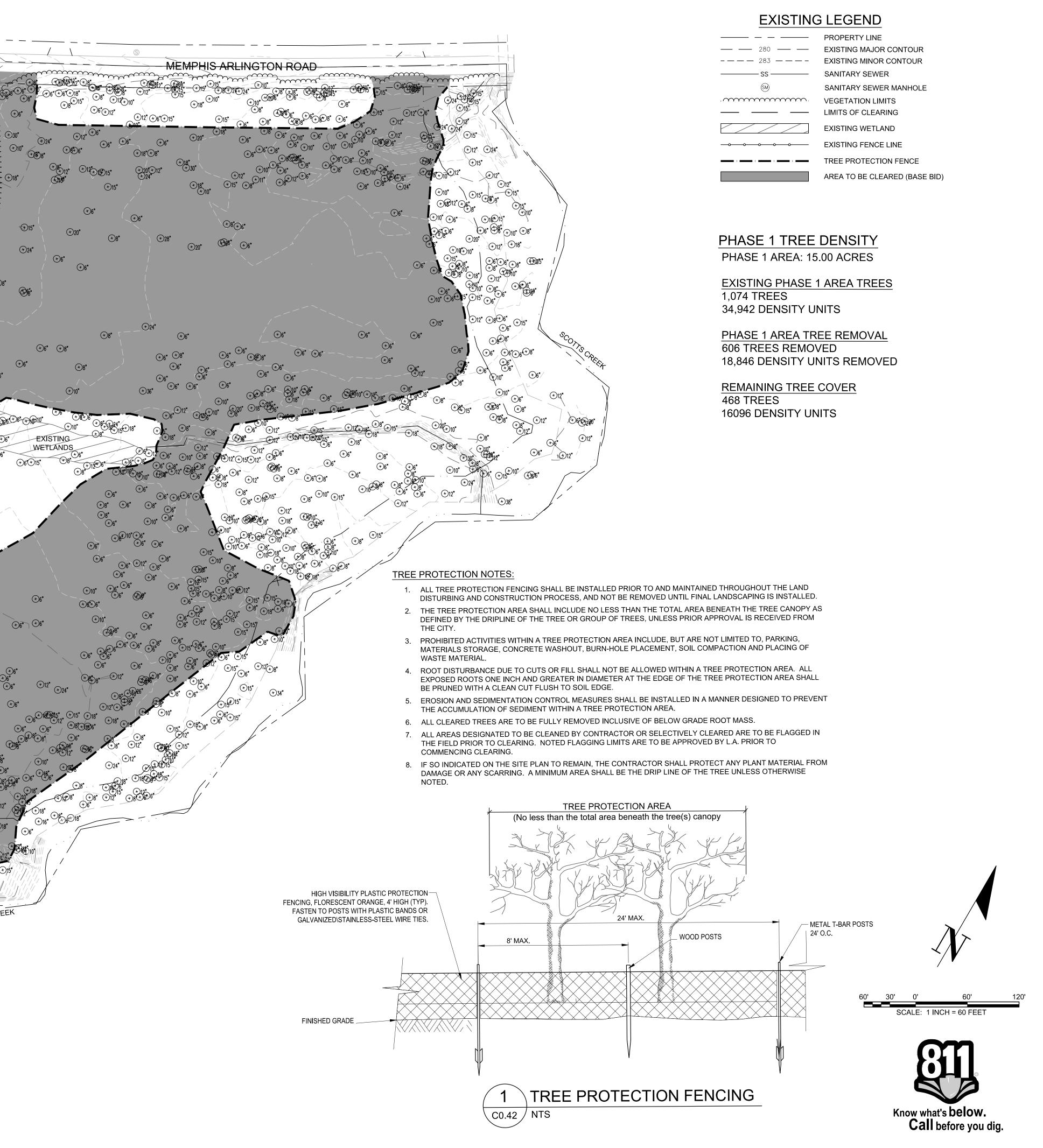
- 1. UTILITY DISCLAIMER LOCATION OF EXISTING UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.
- FOR UNDERGROUND UTILITY LOCATIONS CALL 811 OR 1-800-351-1111.
- 3. FILED VERIFY EXISTING GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION OPERATIONS.
- 4. SEE SHEET C1.01 FOR ASPHALT REMOVAL LIMITS.
- ALL DEMOLITION LINES BETWEEN PROPOSED AND REMAINING PAVEMENTS SHALL BE CUT STRAIGHT AND SMOOTH.
- 6. SEE TREE REMOVAL AND PROTECTION PLAN SHEET C0.42.





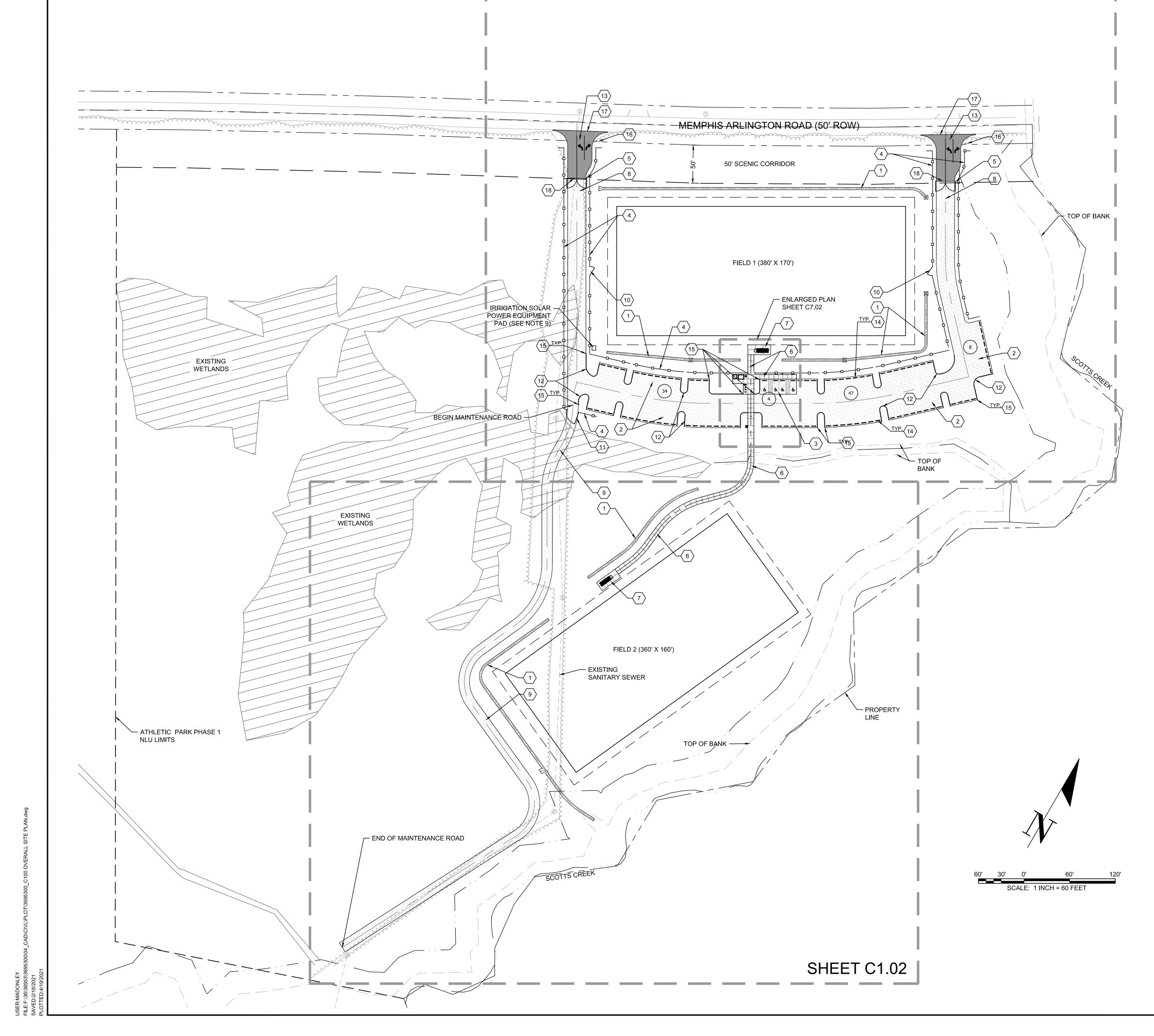
	DESIGN SOLUTIONS	60 GERMANTOWN COURT // SUITE 100 // MEMPHIS // TENNESSEE // 38018	
EXISTING CONDITIONS & DEMO PLAN	LAKELAND ATHLETIC COMPLEX		
REV. DR. CHK. DATE DESCRIPTION MD WD 04-21-21 ISSUE FOR BID			

mmm EXISTING WERLANDS (+)6" (+)6" EXISTING (+)8 (+)8" **(→10"** PHASE 1 ML& DOMNITS **(D)** EXISTING WETLANDS (+)6"(+)8" →26" **(*)8**" (+)20 **(→20"** (+)6" (+)6' (+)24" (+)8"(+ (06)(+)20" (+)30" (+)8" $(+)20^{1}$ (+)8" (+)+)(+)15" +12" SCOTTS CREEK (+)6"



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TREE REMOVAL AND PROTECTION PLAN	LAKELAND ATHLETIC COMPLEX	PHASE 1 MEMPHIS-ARLINGTON ROAD	
REV. DR. CHK. DATE DESCRIPTION MD WD 04-21-21 ISSUE FOR BID			
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SITE LEGEND

CONCRETE

GRAVEL PAVEMENT

ASPHALT PAVEMENT

(89)

NIMBER OF PARKING SPACE

PARKING PROVIDED

PROPOSED PARKING SPACES: 89 PROPOSED ADA PARKING SPACES: 4 TOTAL PROPOSED PARKING SPACES: 93

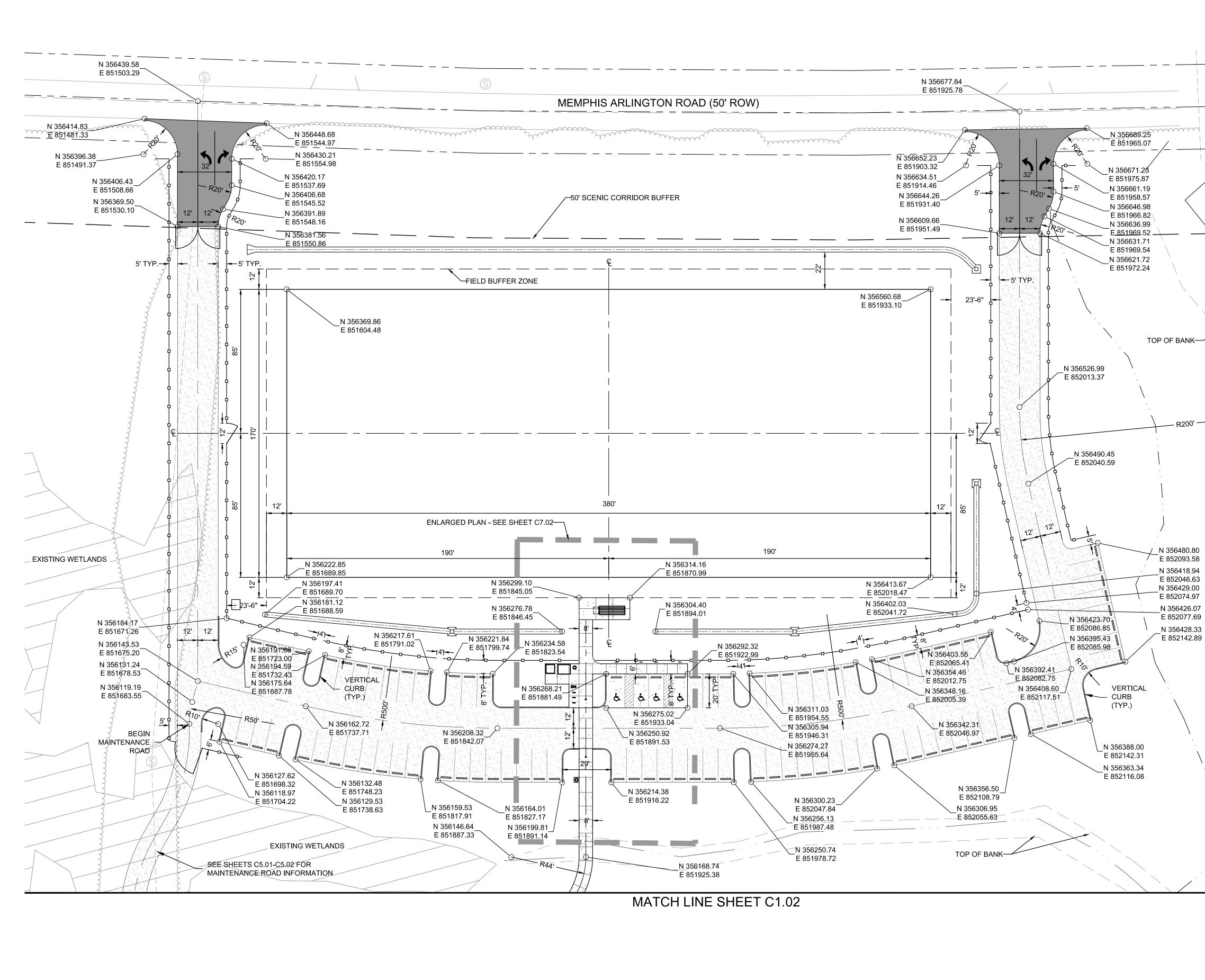
SITE NOTES

- 1. THE SITE LAYOUT SHALL BE BASED ON THE DIMENSIONS AND OTHER INFORMATION SHOWN. MINOR ADJUSTMENTS TO THE LAYOUT APPROVED BY THE ENGINEER MAY BE NEEDED IN THE FIELD TO ACHIEVE THE DESIRED ALIGNMENT WITH THE EXISTING FEATURES TO REMAIN. 2. CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CHECK ALL FINAL DIMENSIONS ON THE GROUND PRIOR TO CONSTRUCTION ACTIVITIES.
- NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES FROM THE PLANS. 3. THE EXACT LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. CARE SHALL BE TAKEN CARE TO PROTECT ANY UTILITIES THAT ARE TO REMAIN AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. ANY DAMAGED UTILITY SHALL BE REPAIRED/RELOCATED TO MEET LOCAL STANDARDS AT THE
- CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE. 4. THE CONTRACTOR SHALL CUT CLEAN EDGES ON EXISTING PAVEMENT AND PROVIDE SMOOTH TRANSITION INTO PROPOSED PAVEMENT.
- 5. PROPOSED ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE INFORMATION ON THESE PLANS EXCEED THE MAXIMUM ALLOWABLE SLOPE OR THE IMPROVEMENTS CAN NOT BE CONSTRUCTED WITHIN THE MAXIMUM ALLOWABLE SLOPE LIMIT.
- 6. PROPOSED CONCRETE SIDEWALK ROUTES INDICATED ON THESE PLANS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 5% OR A CROSS SLOPE OF 2%. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE INFORMATION ON THESE PLANS EXCEED THE MAXIMUM ALLOWABLE SLOPE OR THE IMPROVEMENTS CAN NOT BE CONSTRUCTED WITHIN THE MAXIMUM ALLOWABLE SLOPE LIMIT.
- 7. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING AND CLEARING ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS. 8. IRRIGATION SOLAR POWER EQUIPMENT PAD SHALL BE 5'Wx6'Lx4" THICK,
- WIRE REINFORCED CONCRETE. MINOR ADJUSTMENTS TO THE FINAL LOCATION AND ORIENTATION MAY BE REQUIRED TO FIT WITH OTHER IRRIGATION EQUIPMENT AND SITE ELEMENTS. NOTIFY LANDSCAPE ARCHITECT IF LOCATION DEVIATES FROM WHAT IS SHOWN ON THESE PLANS.

	KEYNOTES
$\langle 1 \rangle$	3' CONCRETE SWALE
2	GRAVEL PARKING/ENTRY ROAD
3	CONCRETE PAVED ADA PARKING
4	WOODEN SPLIT RAIL FENCE
5	26' BAR GATE (1 C7.03)
6	CONCRETE SIDEWALK
$\langle 7 \rangle$	CONCRETE BLEACHER PAD
8	24' GRAVEL ENTRY ROAD
9	14' GRAVEL MAINTENANCE ROAD
(10)	12' BAR GATE (2) (C7.03)
(11)	16' BAR GATE 2 C7.03
(12)	VERTICAL CURB
(13)	ASPHALT PAVEMENT
(14)	CONCRETE WHEEL STOPS 6 C7.01
(15)	CURB WIPEDOWN
(16)	STOP SIGN (13) C7.01
(17)	PAVEMENT CONNECTION
(18)	PAVEMENT CONNECTION TO GRAVEL



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SITE LEGEND

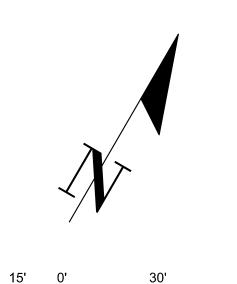
CONCRETE GRAVEL PAVEMENT

ASPHALT PAVEMENT

SITE NOTES

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- WHERE PRESENT OR EDGE OF PAVEMENT OR GRAVEL WHERE CURB IS NOT PRESENT. 8. ALL RADII SHALL BE 5' UNLESS OTHERWISE NOTED.

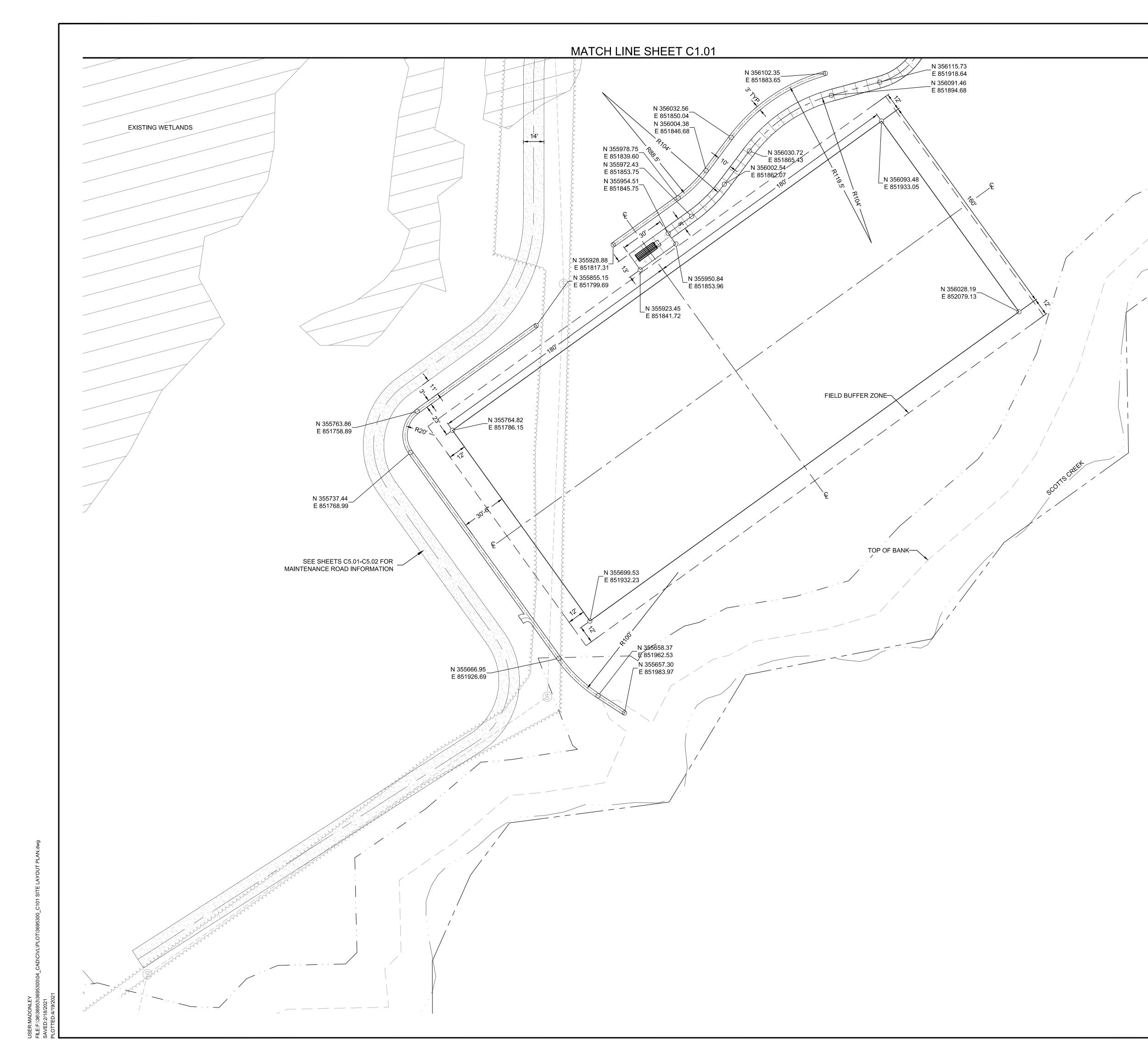


SCALE: 1 INCH = 30 FEET 60

30'



SITE LAYOUT PLAN LAKELAND ATHLETIC COMPLEX PHASE 1 MEMPIS-ARLINGTON ROAD LAKELAND, TENNESSEE



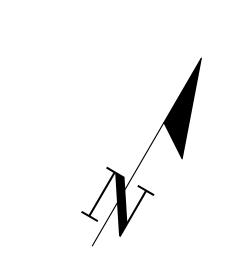
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CONCRETE GRAVEL PAVEMENT

ASPHALT PAVEMENT

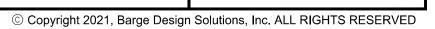
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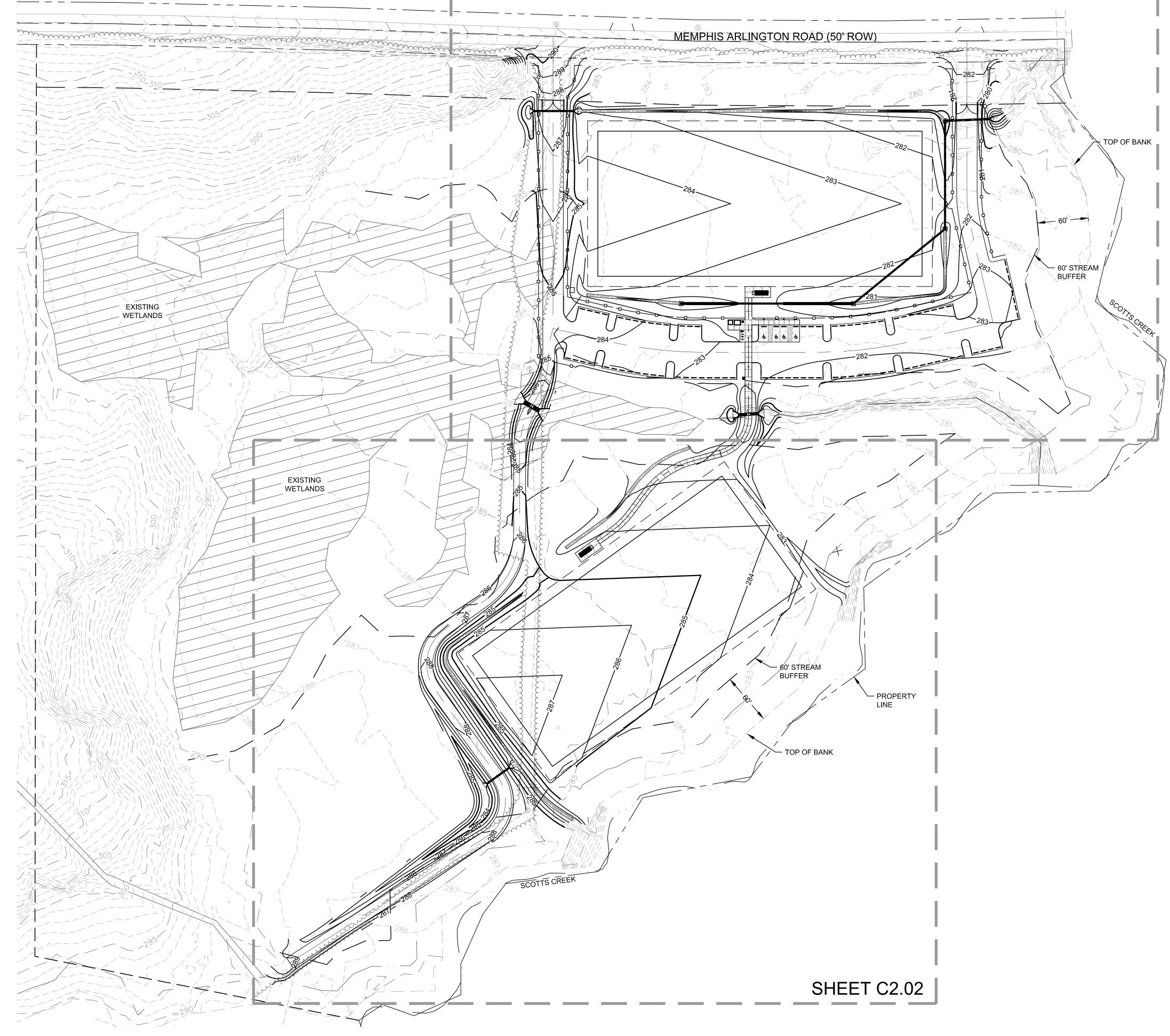


15' 0' 30' SCALE: 1 INCH = 30 FEET

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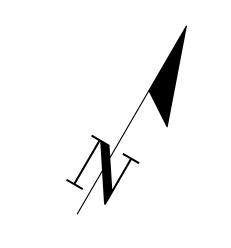
GRADING NOTES:

- 1. THE EXACT LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. CARE SHALL BE TAKEN CARE TO PROTECT ANY UTILITIES THAT ARE TO REMAIN AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. ANY DAMAGED UTILITY SHALL BE REPAIRED/RELOCATED TO MEET LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE.
- 2. SOLID SOD PLAYING FIELD AREAS AND SEED ALL OTHER EARTHEN AREAS DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
- 4. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING AND CLEARING ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- 5. PROPOSED ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION. CONTRACTOR SHALL NOTIFY THE OWNER IF THE INFORMATION ON THESE PLANS EXCEED THE MAXIMUM ALLOWABLE SLOPE OR THE IMPROVEMENTS CAN NOT BE CONSTRUCTED WITHIN THE MAXIMUM ALLOWABLE SLOPE LIMIT.
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- 7. THE CONTRACTOR SHALL CUT CLEAN EDGES ON EXISTING PAVEMENT AND PROVIDE SMOOTH TRANSITION INTO PROPOSED PAVEMENT.
- 8. SEE SHEETS C2.31 TO C2.52 FOR EROSION CONTROL INFORMATION.
- 9. THE CONTRACTOR MUST IMPLEMENT ALL PROPER EROSION AND SEDIMENT CONTROL MEASURES FOR THE PROJECT AND MEET ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

GRADING & DRAINAGE LEGEND

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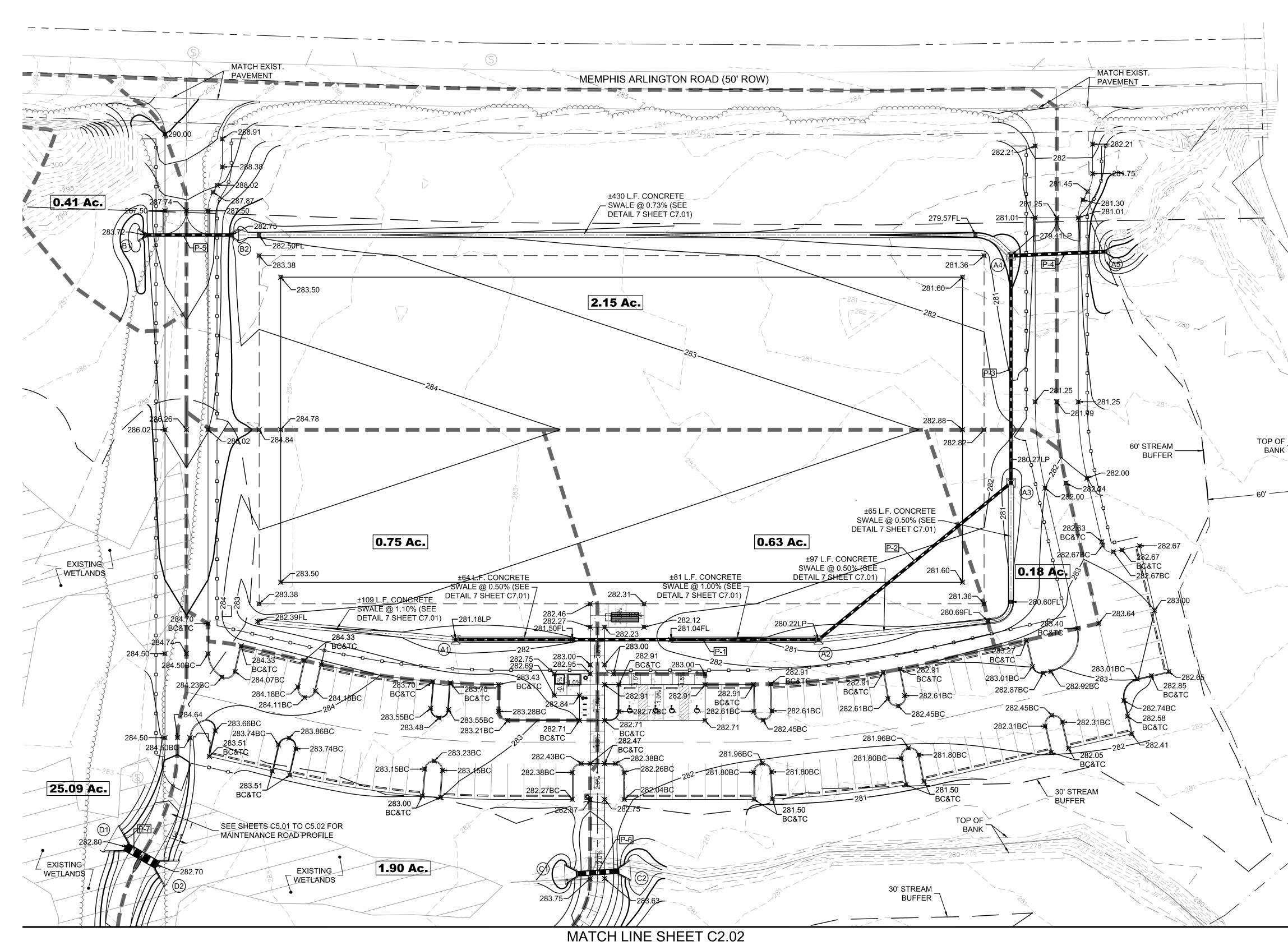
SCALE: 1 INCH = 60 FEET



Know what's **below. Call** before you dig.

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OVERALL GRADING PLAN	LAKELAND ATHLETIC COMPLEX	PHASE 1 MEMPHIS-ARLINGTON ROAD
REV. DR. CHK. DATE DESCRIPTION MD WD 04-21-21 ISSUE FOR BID		
Lev.	D2.	00 695300

120'





		Structure	Table		
Node	Description	Rim Elevation (ft)	Sump Elevation (ft)	Area (Ac.)	Q Design (cfs)
A1	3070 Inlet	281.18	278.18	0.75	1.30
A2	3070 Inlet	280.22	277.17	0.63	1.10
A3	3070 Inlet	280.27	276.48	0.18	0.40
A4	3070 Inlet	279.41	275.59	2.56	6.10
A5	Type 'D' HW	277.44	275.00	-	-
B1	Type 'D' HW	285.68	283.72	0.41	2.50
B2	Type 'D' HW	284.71	282.75	_	-
C1	Type 'D' HW	282.75	279.50	26.99	63.90
C2	Type 'D' HW	281.85	278.60	_	-
D1	Type 'D' HW	287.05	282.80	25.09	60.50
D2	Type 'D' HW	286.95	282.70	-	-
E1	Type 'D' HW	285.10	283.14	1.39	2.30
E2	Type 'D' HW	284.77	282.81	-	-

	Pipe Table										
Pipe Label	Upstream Node	Upstream Invert (ft)	Downstream Node	Downstream Invert (ft)	Length (ft)	Slope (ft/ft)	Size (In)	Area in Pipe	Q Design (cfs)	Q Capacity (cfs)	Pipe Type
P-1	A1	278.18	A2	277.17	202	0.0050	15	0.75	1.30	4.58	HDPE
P-2	A2	277.17	A3	276.48	138	0.0050	15	1.38	2.40	4.57	HDPE
P-3	A3	276.48	A4	275.84	127	0.0050	15	1.56	2.80	4.59	HDPE
P-4	A4	275.59	A5	275.00	53	0.0112	18	4.12	8.90	11.14	HDPE
P-5	B1	283.72	B2	282.75	49	0.0200	15	0.41	2.50	9.16	HDPE
P-6	C1	279.50	C2	278.60	24	0.0380	30	26.99	63.90	80.21	RCP
P-7	D1	282.80	D2	282.70	20	0.0050	34x53	25.09	60.50	40.60	RCP
P-8	E1	283.14	E2	282.81	33	0.0100	15	1.39	2.30	6.48	RCP

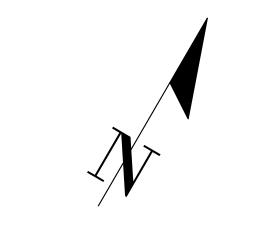
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- 1. THE EXACT LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. CARE SHALL BE TAKEN CARE TO PROTECT ANY UTILITIES THAT ARE TO REMAIN AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. ANY DAMAGED UTILITY SHALL BE REPAIRED/RELOCATED TO MEET LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE.
- SOLID SOD PLAYING FIELD AREAS AND SEED ALL EARTHEN 2. AREAS DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
- 4. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING AND CLEARING ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- PROPOSED ACCESSIBLE PARKING SPACES SHALL NOT 5. EXCEED 2% SLOPE IN ANY DIRECTION. CONTRACTOR SHALL NOTIFY THE OWNER IF THE INFORMATION ON THESE PLANS EXCEED THE MAXIMUM ALLOWABLE SLOPE OR THE IMPROVEMENTS CAN NOT BE CONSTRUCTED WITHIN THE MAXIMUM ALLOWABLE SLOPE LIMIT.
- PROPOSED CONCRETE SIDEWALK ROUTES INDICATED ON 6. THESE PLANS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 5% OR A CROSS SLOPE OF 2%. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE INFORMATION ON THESE PLANS EXCEED THE MAXIMUM ALLOWABLE SLOPE OR THE IMPROVEMENTS CAN NOT BE CONSTRUCTED WITHIN THE MAXIMUM ALLOWABLE SLOPE LIMIT.
- 7. THE CONTRACTOR SHALL CUT CLEAN EDGES ON EXISTING PAVEMENT AND PROVIDE SMOOTH TRANSITION INTO PROPOSED PAVEMENT.
- 8. SEE SHEETS C2.31 TO C2.52 FOR EROSION CONTROL INFORMATION.
- 9. 3070 INLETS SHALL HAVE A CONCRETE APRON SURROUND. SEE DETAIL 2, SHEET C7.04.
- 10. THE CONTRACTOR MUST IMPLEMENT ALL PROPER EROSION AND SEDIMENT CONTROL MEASURES FOR THE PROJECT AND MEET ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

GRADING & DRAINAGE LEGEND

	STORM DRAIN
<u> </u>	EXISTING CONTOUR
	PROPOSED CONTOUR
	DRAIN INLET
\square	TYPE D HEADWALL
E C	RIP-RAP OUTLET PROTECTION
X 282.50	SPOT ELEVATION
BC	BOTTOM OF CURB (GUTTER)
TC	TOP OF CURB
FL	SWALE FLOWLINE



15' 0' SCALE: 1 INCH = 30 FEET

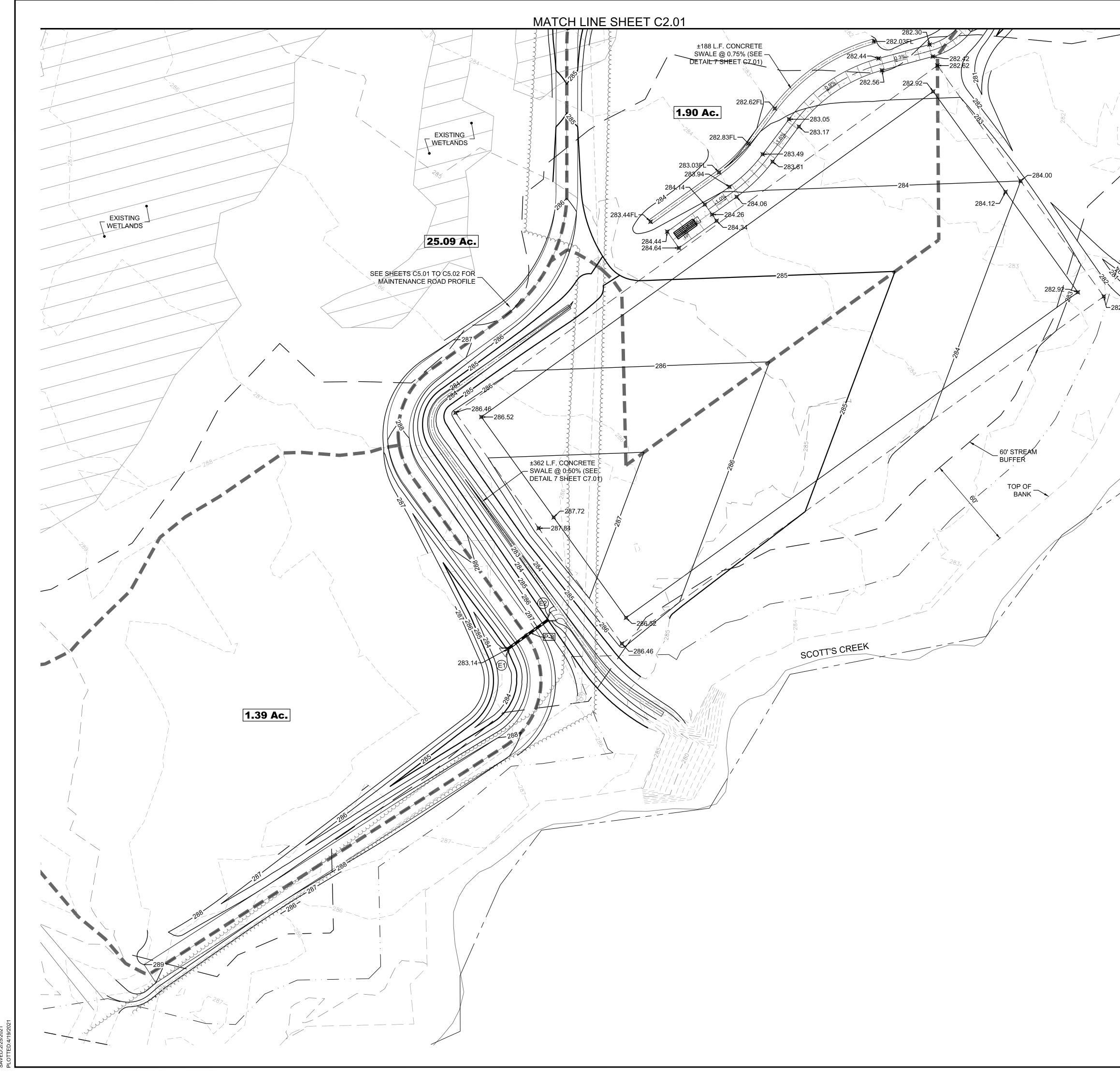
30'



Know what's **below. Call** before you dig.

	DESIGN SO	60 GERMANTOWN COURT // SUITE 100 // MEMPHIS	
	ESLEY L ERED Q Anotomodified Barge Desig Date: 2030 Course Vo. 12 OF TH		AE7
GRADING PLAN	LAKELAND ATHLETIC COMPLEX	PHASE 1	MEMPHIS-ARLINGTON ROAD LAKELAND, TENNESSEE
REV. DR. CHK. DATE DESCRIPTION MD WD 04-21-21 ISSUE FOR BID			
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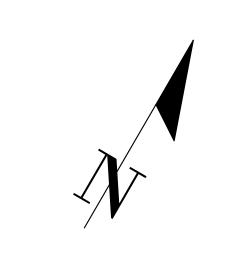
:MADONLEY :\36\36953\3695300\04_CAD\CIVL\PLOT\3695300_C201 GRA

GRADING NOTES:

- 1. THE EXACT LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. CARE SHALL BE TAKEN CARE TO PROTECT ANY UTILITIES THAT ARE TO REMAIN AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. ANY DAMAGED UTILITY SHALL BE REPAIRED/RELOCATED TO MEET LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE.
- SOLID SOD PLAYING FIELD AREAS AND SEED ALL EARTHEN AREAS DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED.
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GRADING & DRAINAGE LEGEND

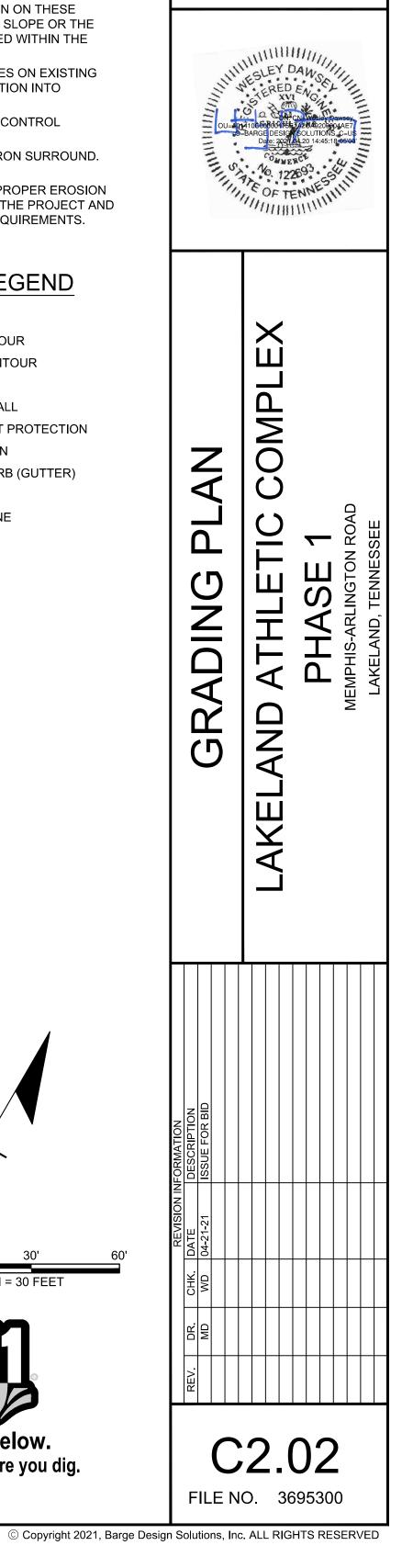
	STORM DRAIN
<u> </u>	EXISTING CONTOUR
	PROPOSED CONTOUR
	DRAIN INLET
\bigtriangleup	TYPE D HEADWALL
E C	RIP-RAP OUTLET PROTECTION
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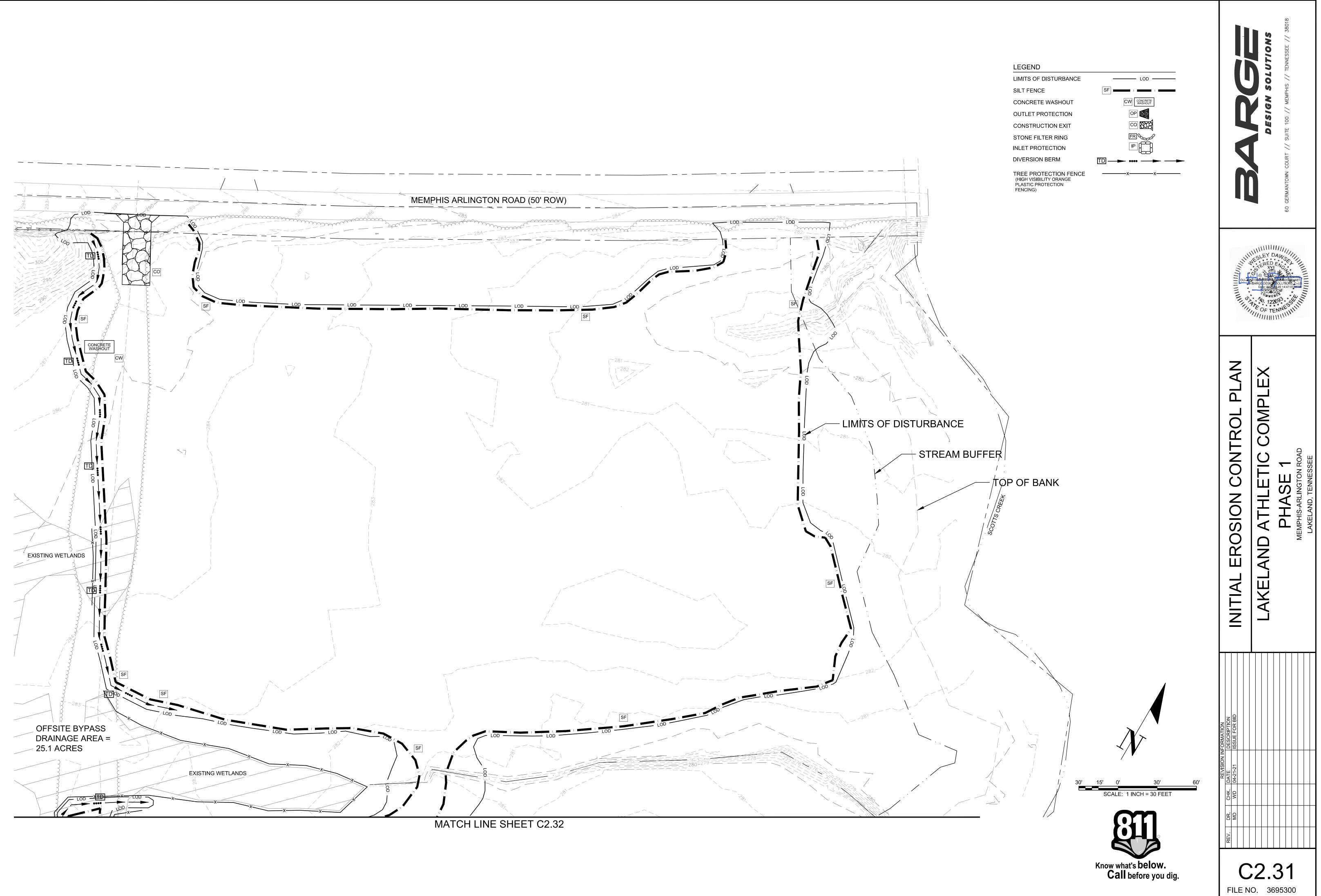
15' 0' 30' SCALE: 1 INCH = 30 FEET

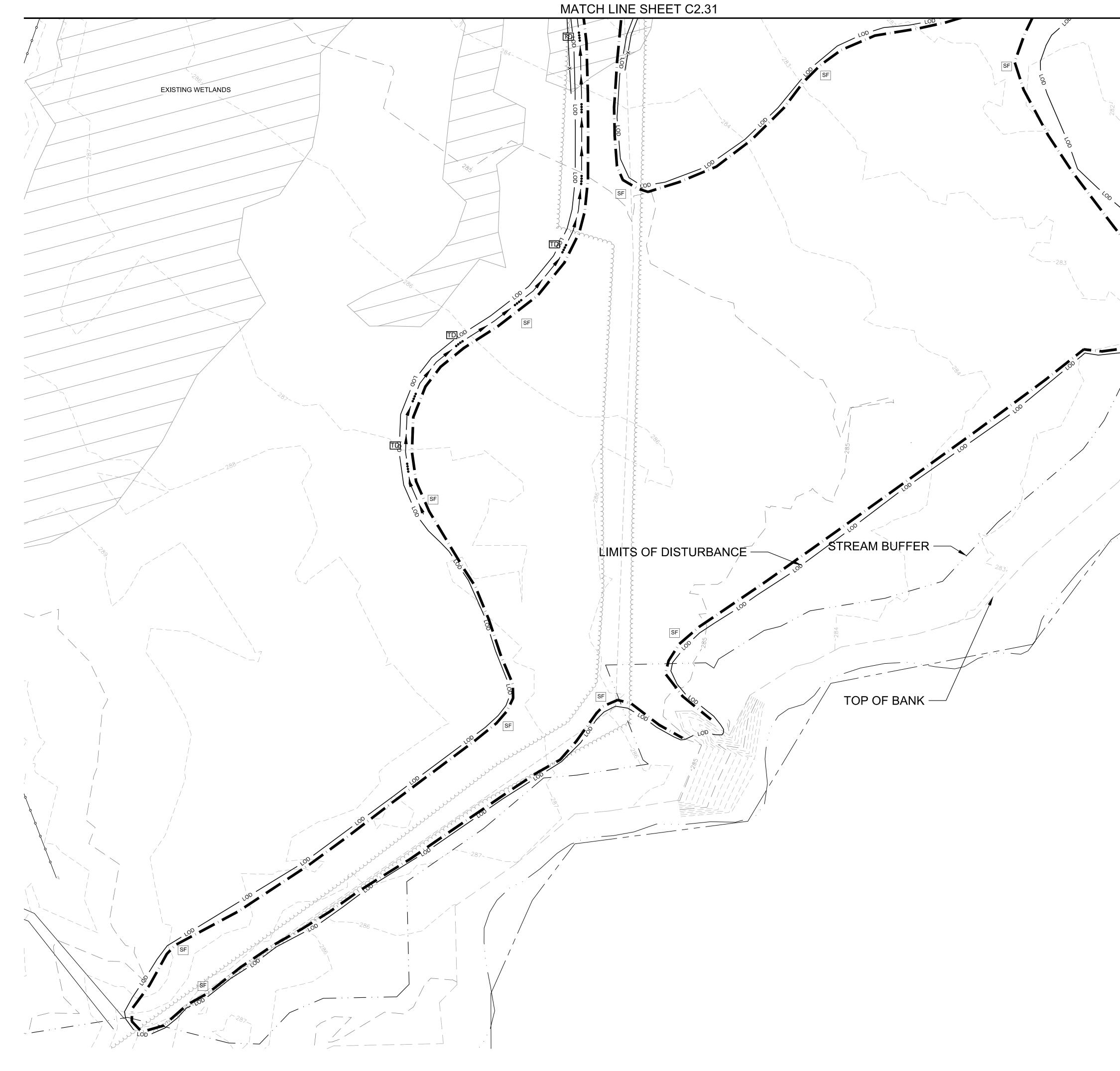


Know what's **below. Call** before you dig.



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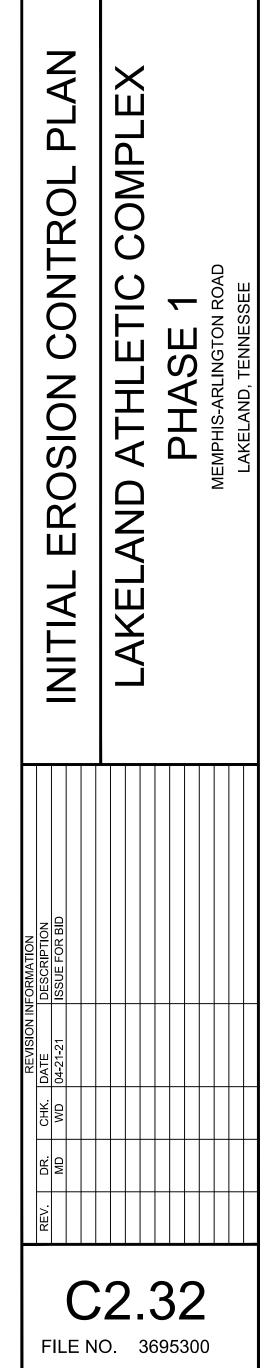
LEGEND

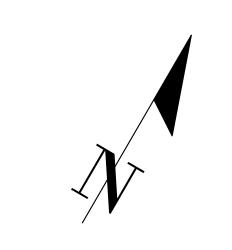
LIMITS OF DISTURBANCE SILT FENCE CONCRETE WASHOUT OUTLET PROTECTION CONSTRUCTION EXIT STONE FILTER RING INLET PROTECTION **DIVERSION BERM**

TREE PROTECTION FENCE (HIGH VISIBILITY ORANGE PLASTIC PROTECTION FENCING)

LOD
CW CONCRETE WASHOUT
FR





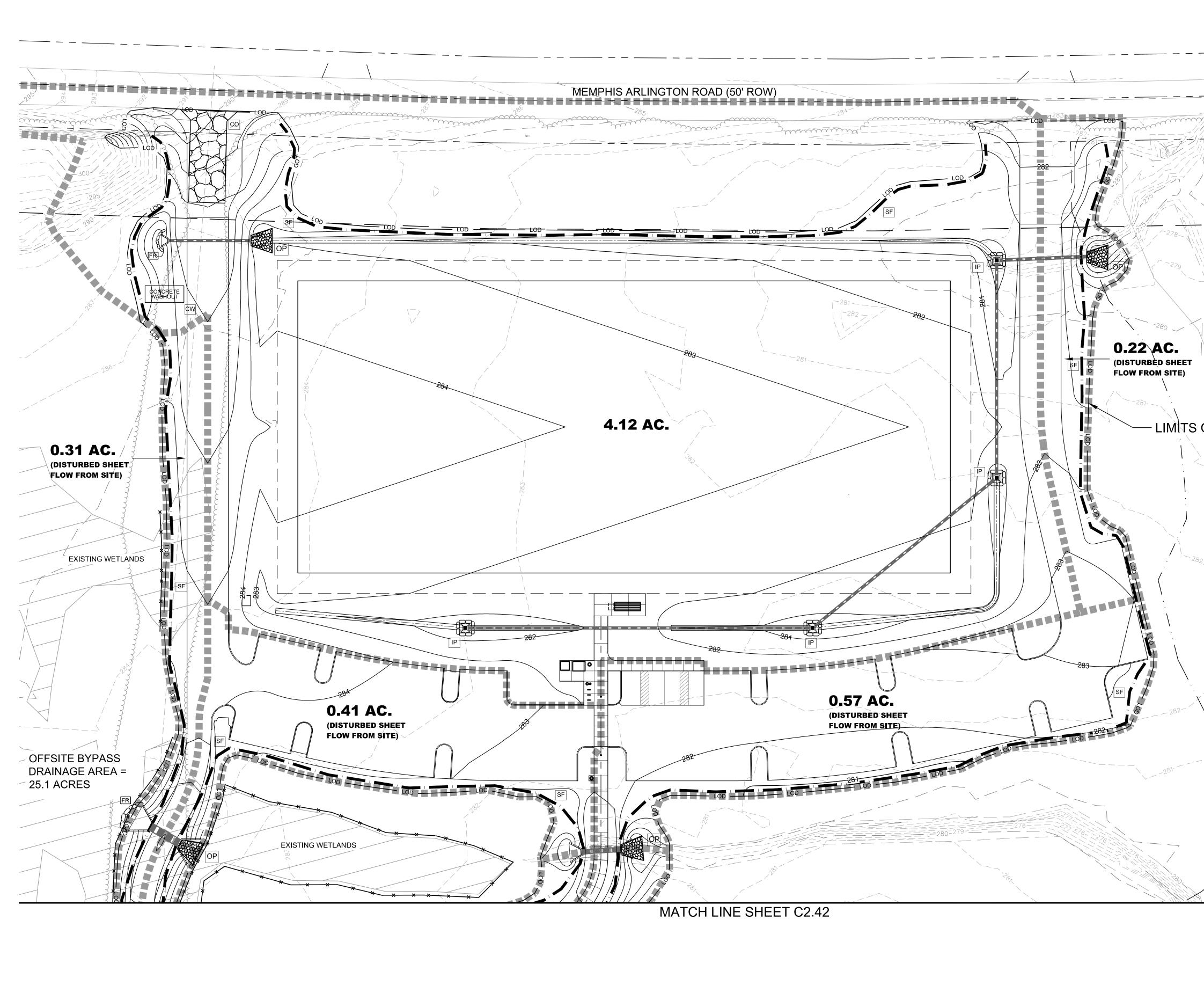


30' 15' 0' SCALE: 1 INCH = 30 FEET

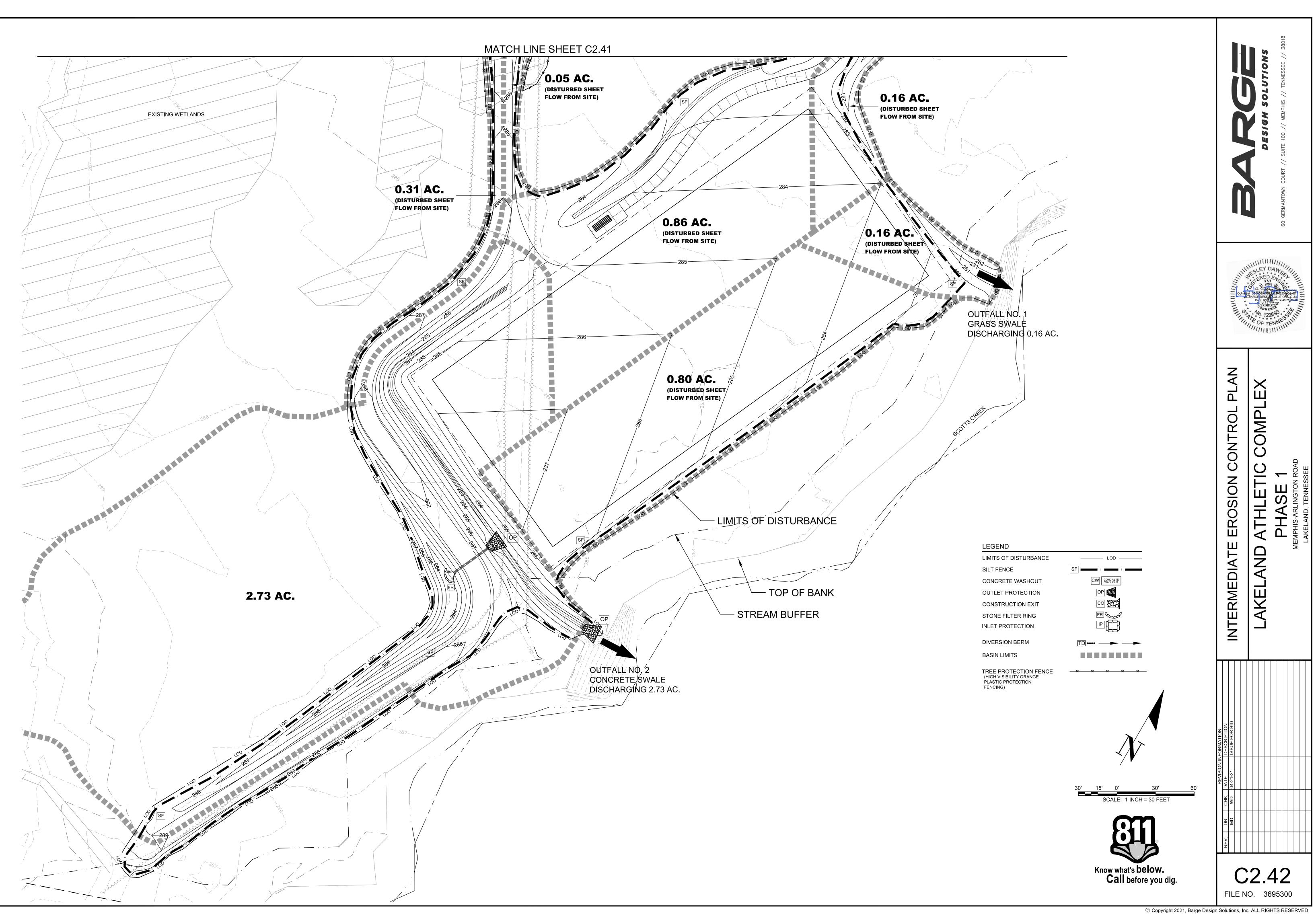


Know what's **below. Call** before you dig.

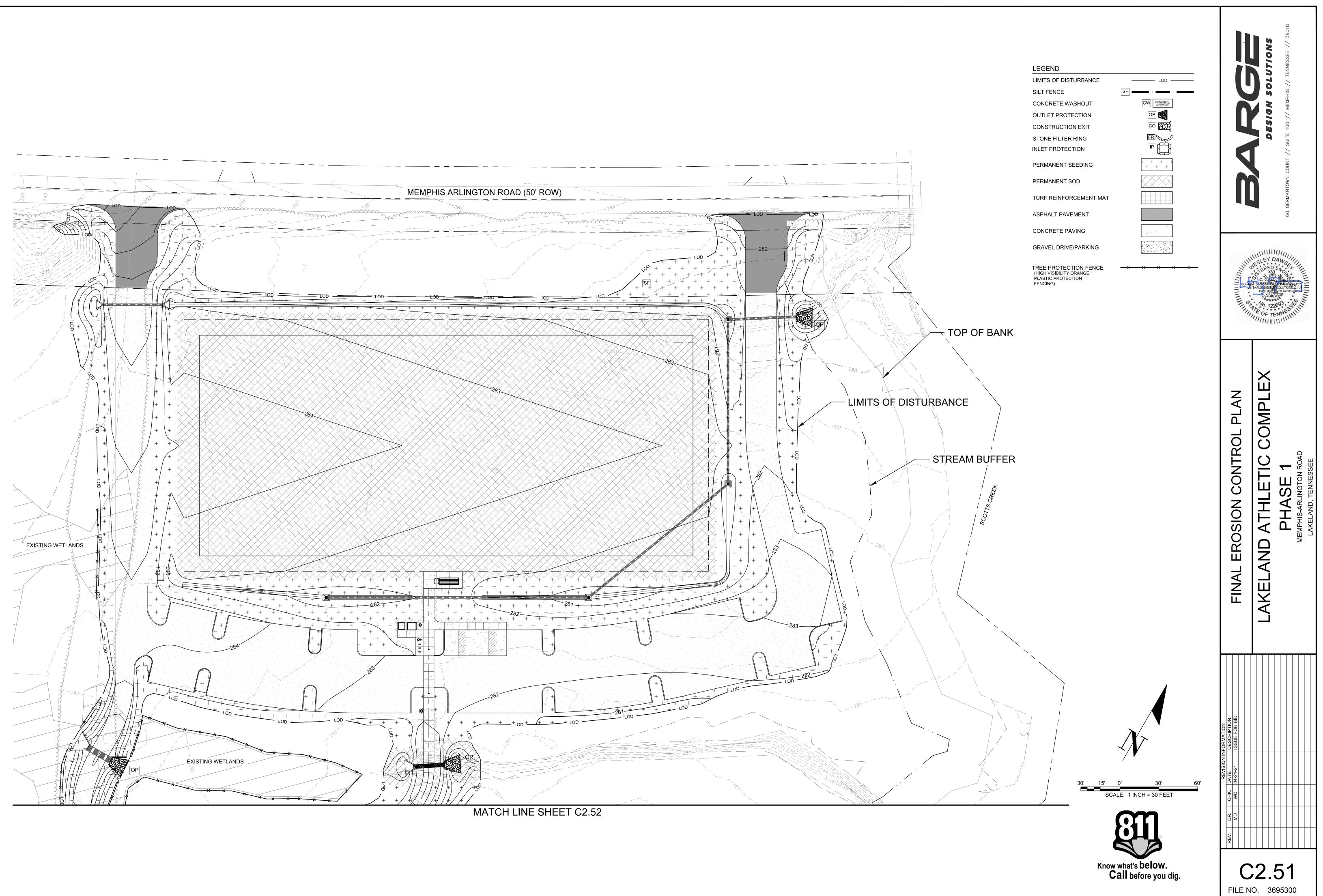
60'

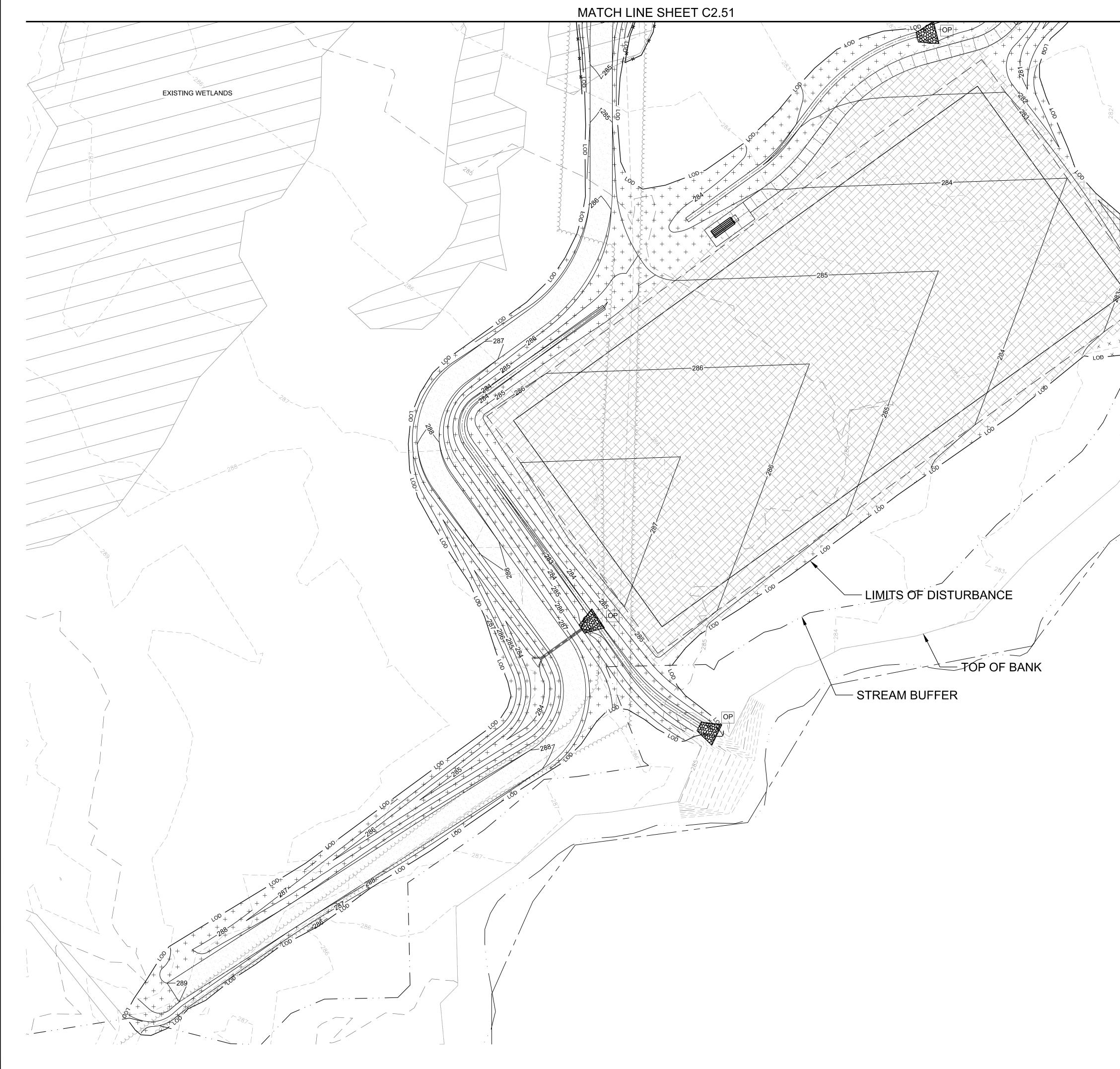


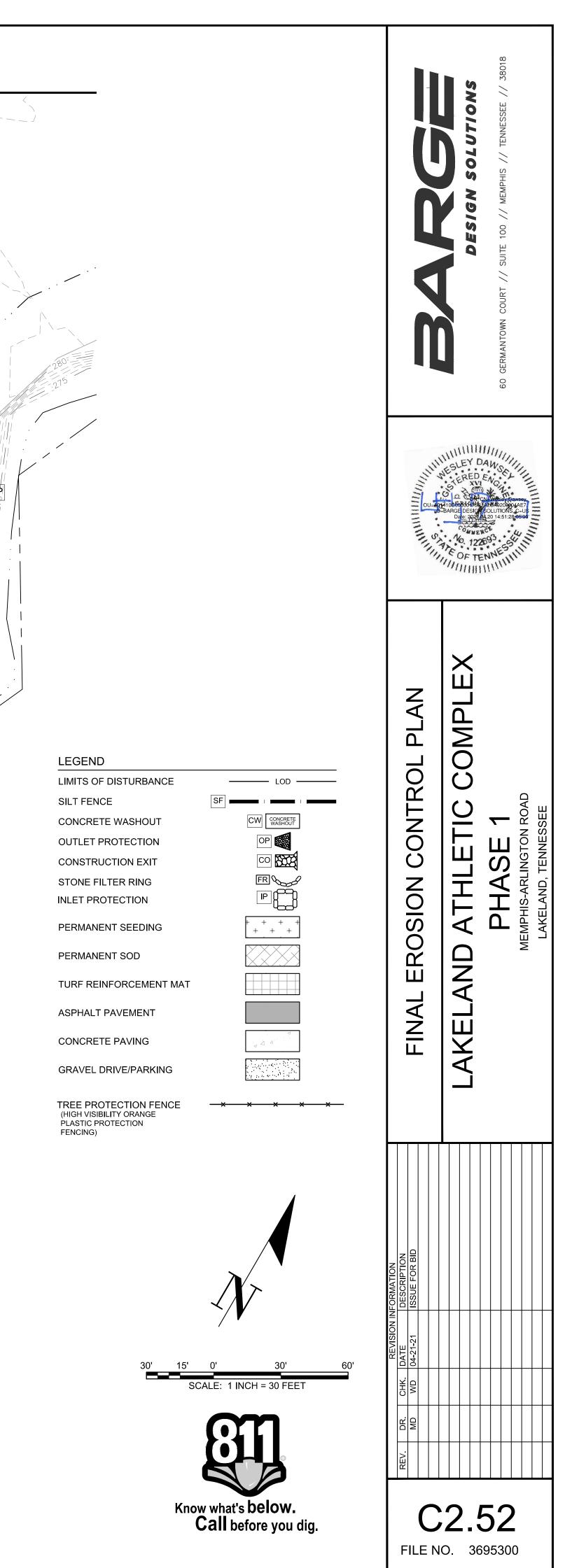
	LEGEND LIMITS OF DISTURBANCE SILT FENCE CONCRETE WASHOUT OUTLET PROTECTION CONSTRUCTION EXIT STONE FILTER RING INLET PROTECTION DIVERSION BERM BASIN LIMITS TREE PROTECTION FENCE (HIGH VISIBILITY ORANGE PLASTIC PROTECTION FENCING)			DESIGN SOLUTIONS	60 GERMANTOWN COURT // SUITE 100 // MEMPHIS // TENNESSEE // 38018
			11111111111111111111111111111111111111	NESLEY D. NESLERED Maiocooddists Date: 20210 No. 1225	AWSSL NUMBER PARSEY APERATIONS C-US A20 14:48:46:05:00
OF DISTURBANCE			INTERMEDIATE EROSION CONTROL PLAN	LAKELAND ATHLETIC COMPLEX	PHASE 1 MEMPHIS-ARLINGTON ROAD LAKELAND, TENNESSEE
STREAM	30' 15' SC.	0' 30' 60' ALE: 1 INCH = 30 FEET 60' State is below. 60'			

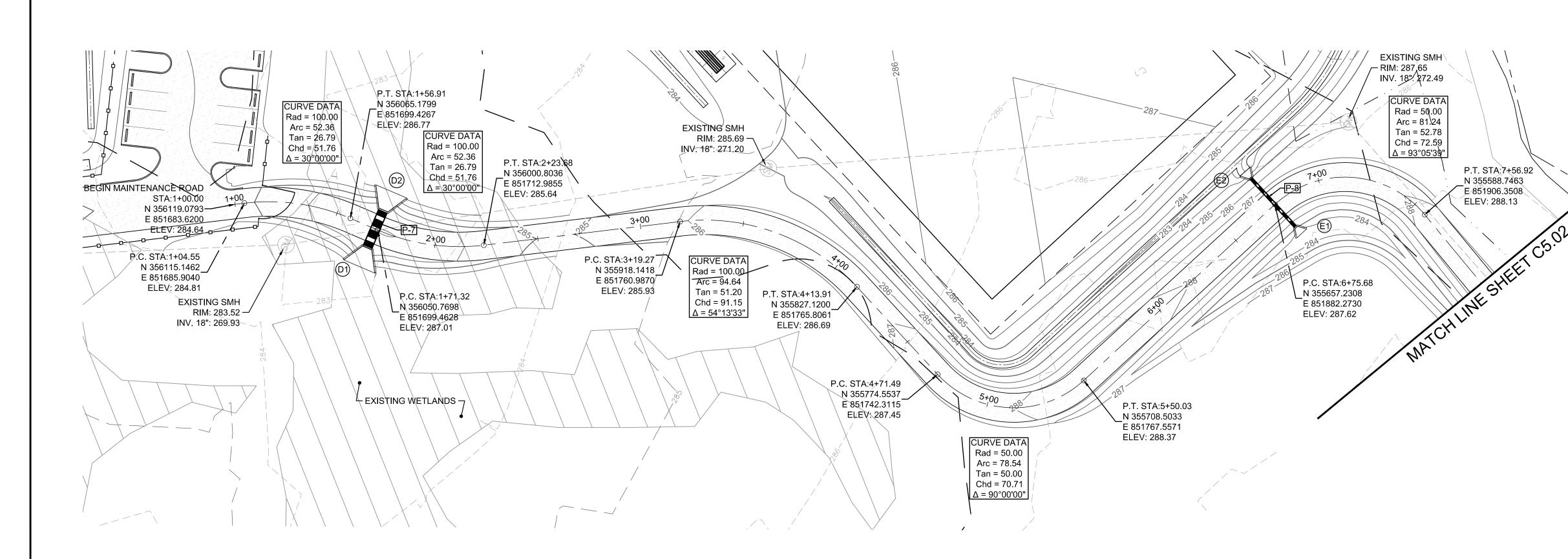


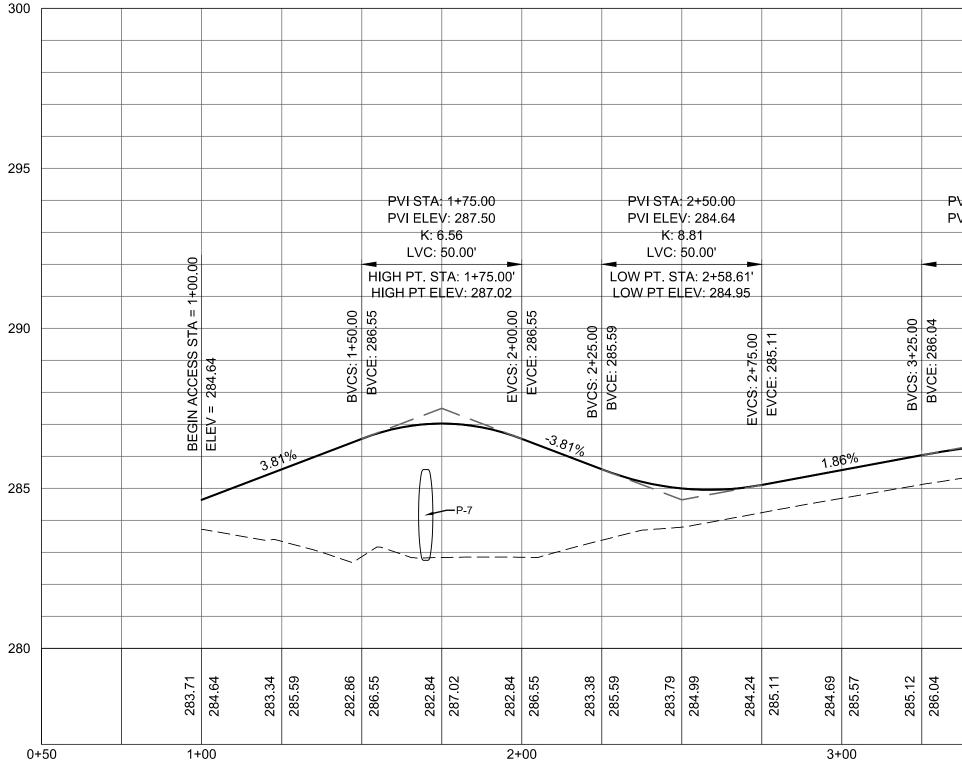








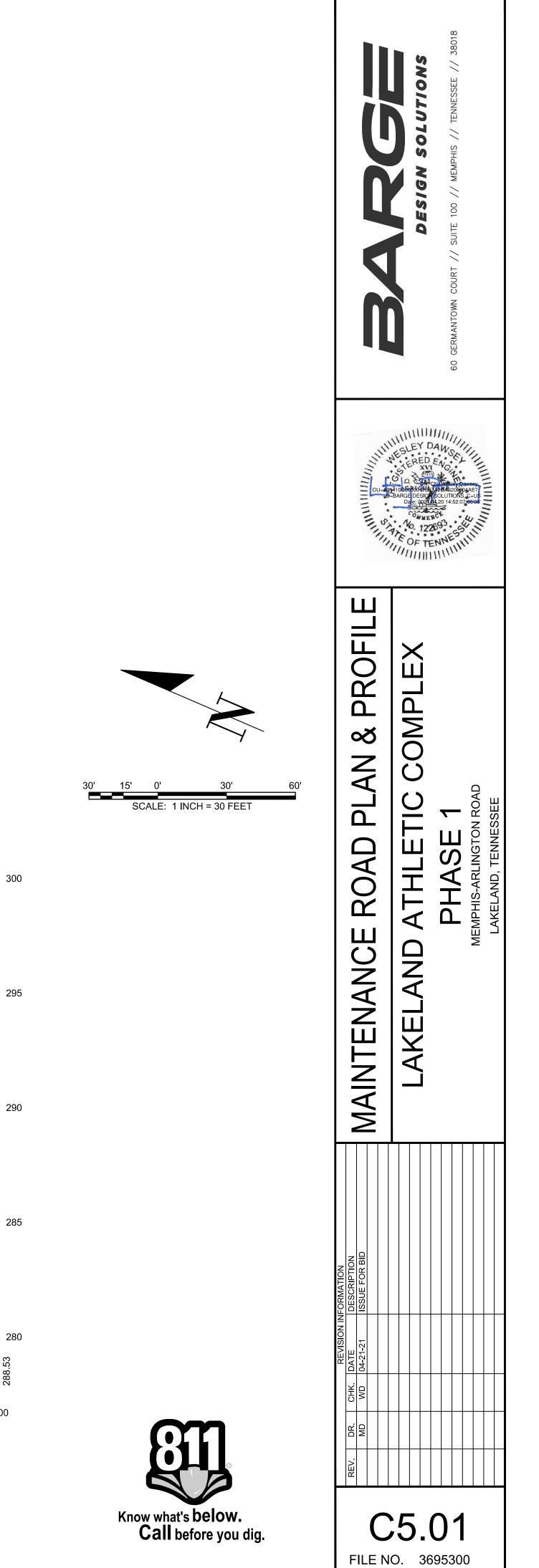


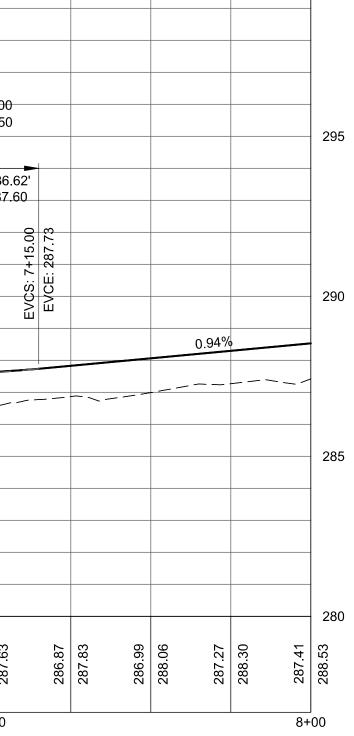


4DONLEY 6\36953\3695300\04_CAD\CIVL\PLOT\3695300_C501 ACCESS ROAD PLAN & PROFILE.dwg 2/11/2021

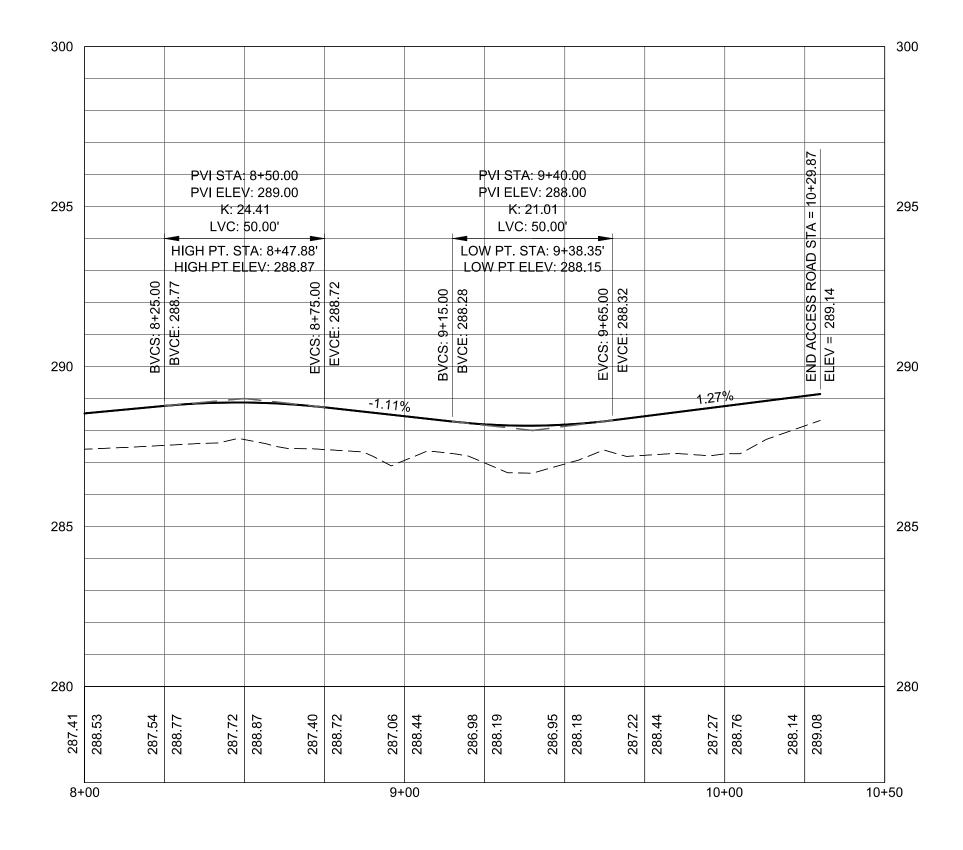
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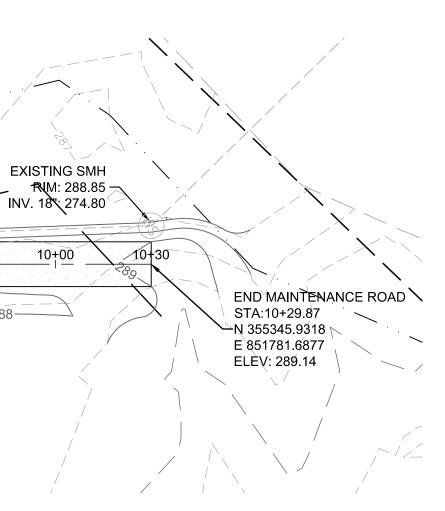
	A: 3+50.00		A: 4+00.00					PVI ELE K: 2 LVC:	. 5+50.00 V: 288.50 24.42 50.00' ■ TA: 5+57.56'					PVI STA: 6+ PVI ELEV: 2 K: 30.2 LVC: 50.0 W PT. STA:	:87.50 7 00'
K:	EV: 286.50 26.88	K:	EV: 286.50 1 <mark>8.75</mark>						LEV: 288.38					W PT ELEV	: 287.6
LVC	± 50.00' ■		25.00'				5+25 00	BVCE: 288.17	5+75.00	288.32			1+65.00 287.68		
- 	00 3 + 24 3 - 7	EVCE: 286.50 BVCS: 3+87.50 BVCE: 286.50	EVCS: 4+12.50 EVCE: 286.67				BACS:	BVCE	сс сс ш	EVCE			BVCS: 6+65.00 BVCE: 287.68		
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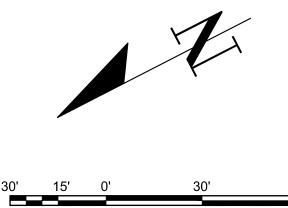


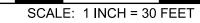


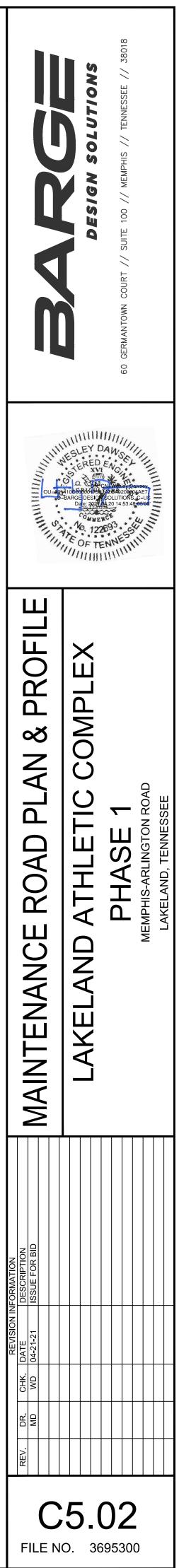
:R:MADONLEY E:F:\36\36953\3695300\04_CAD\CIVL\PLOT\3695300_C501 ACCESS ROAD PLAN UTURE STATES TO STATES TO



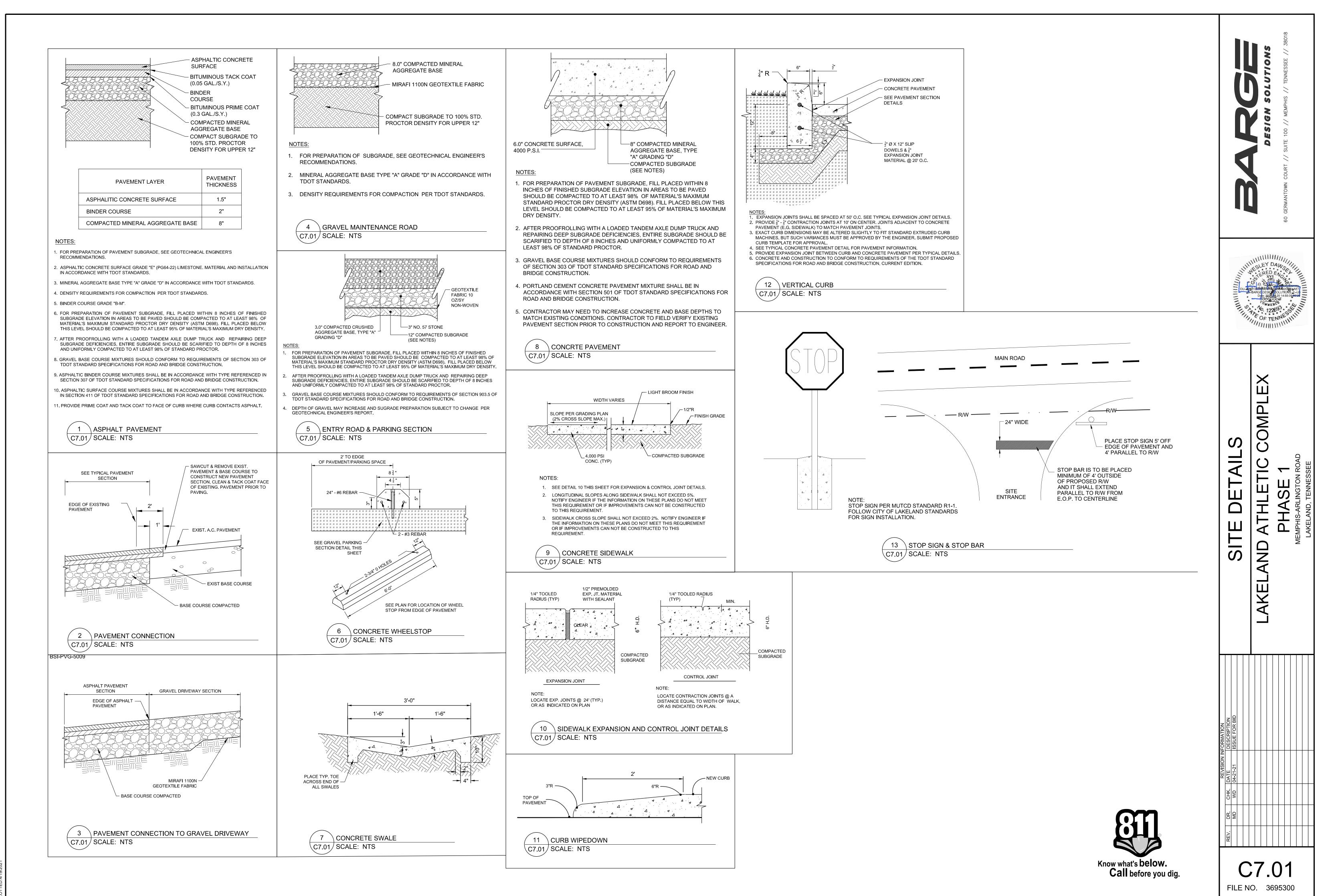


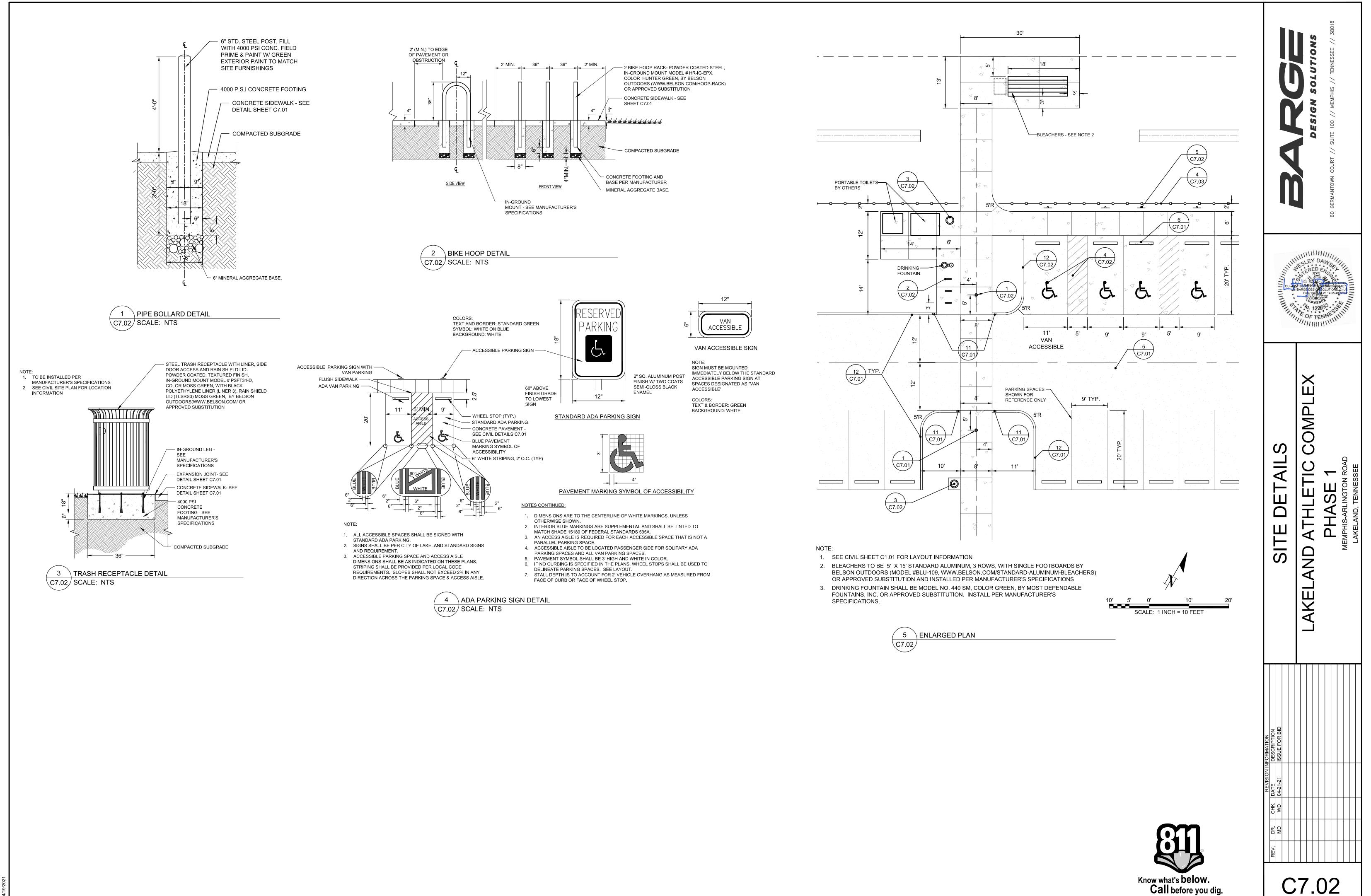




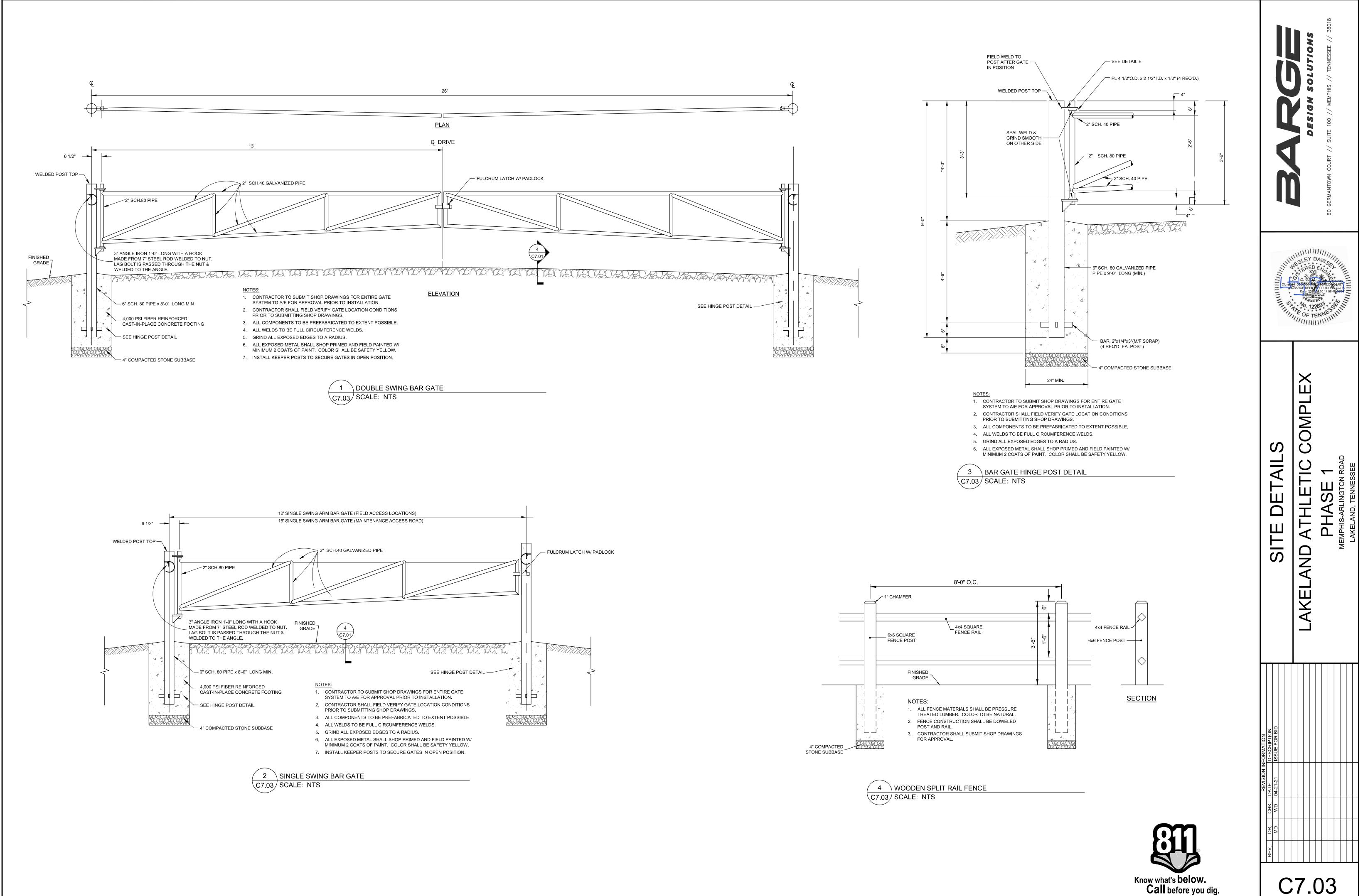




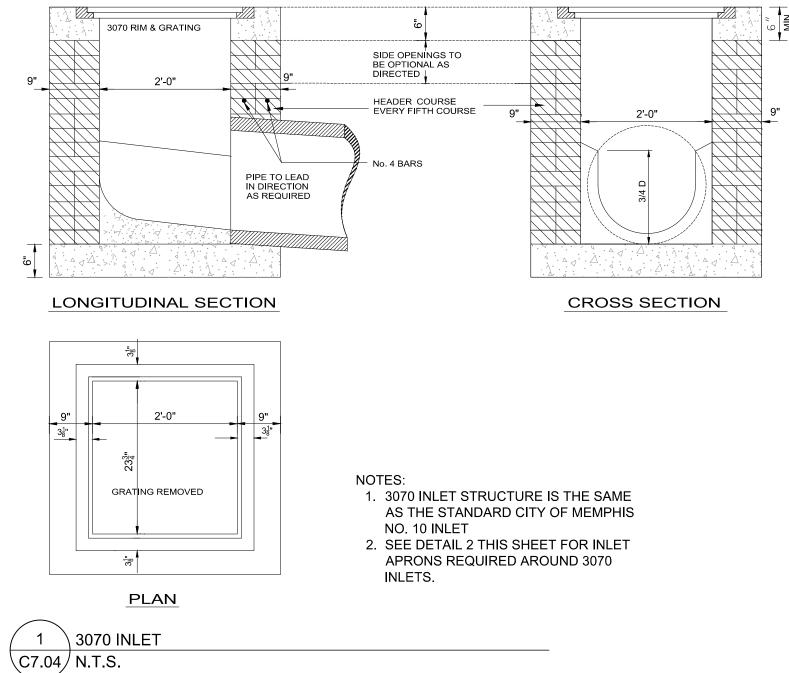


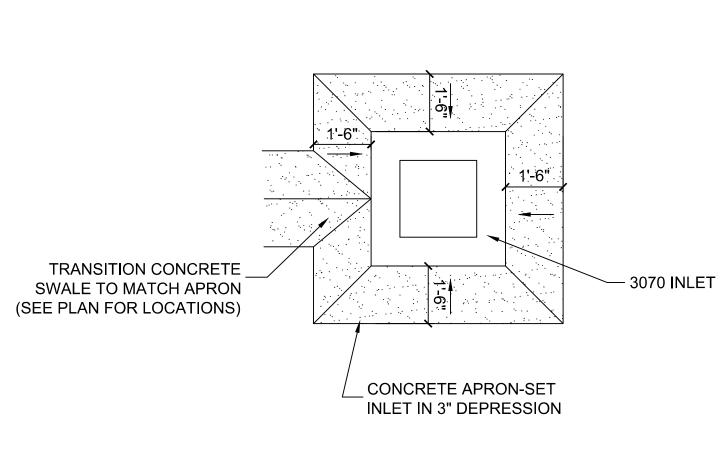


FILE NO. 3695300



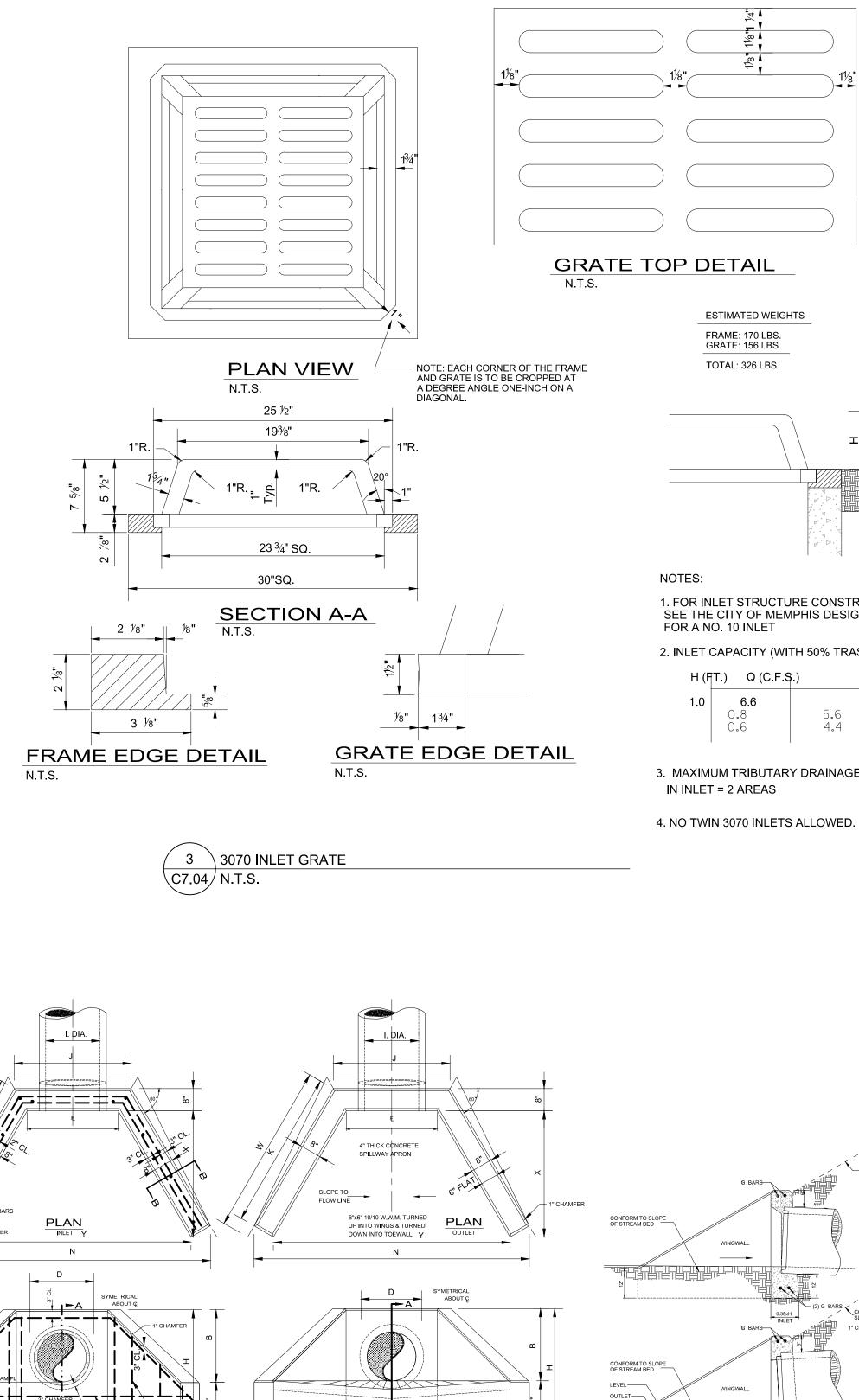
FILE NO. 3695300

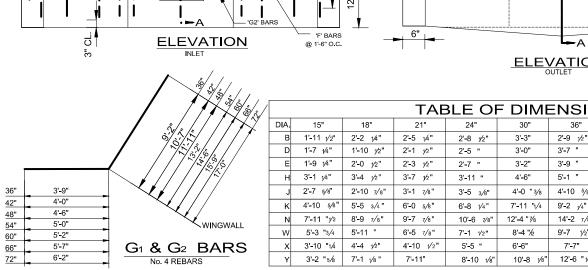












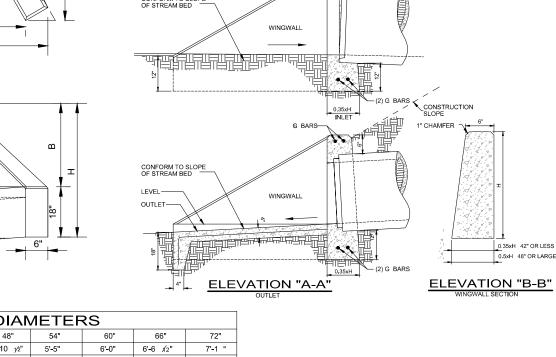
В	1'-11 1⁄2"	2'-2 1⁄4"	2'-5 1⁄4"	2'-8 1⁄2"	3'-3"	2 '- 9
D	1'- 7 1⁄4"	1'-10 1⁄2"	2'-1 ½"	2'-5 "	3'-0"	3'-7
E	1'-9 1⁄4"	2'-0 ½"	2'-3 1⁄2"	2'-7 "	3'-2"	3'-9
н	3'-1 1⁄4"	3'-4 1⁄2"	3'-7 1⁄2"	3'-11 "	4'-6"	5'-1
J	2'-7 5/8"	2'-10 7/8"	3'-1 7/8"	3'-5 3/8"	4'-0 " 3⁄8	4'-10
К	4'-10 5⁄8"	5'-5 3/4 "	6'-0 5/8"	6'-8 1⁄4"	7'-11 "1/4	9'-2
N	7'-11 "1⁄2	8'-9 7/8"	9'-7 7/8"	10'-6 7/8"	12'-4 " 1⁄8	14'-2
W	5'-3 "3/4	5'-11 "	6'-5 7/8"	7'-1 1⁄2"	8'-4 "⁄2	9'-7
х	3'-10 "1⁄4	4'-4 1⁄2"	4' - 10 1⁄2"	5'-5 "	6'-6"	7'-7
Y	3'-2 "5/8	7'-1 1⁄8 "	7'-11"	8'-10 1⁄8"	10'-8 1⁄8"	12'-6

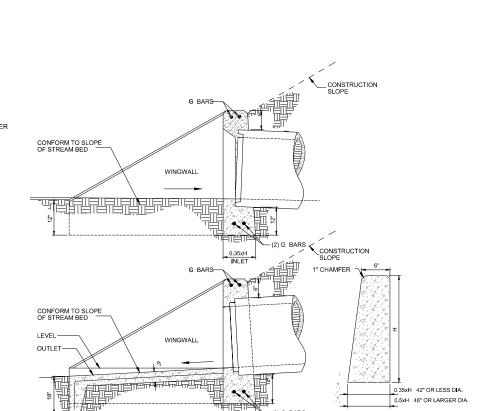
4 TYPE 'D' HEADWALL C7.04 N.T.S.

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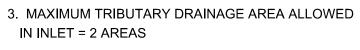
Know what's **below. Call** before you dig.

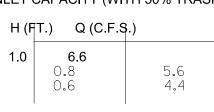
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	JUILEI					- - ⁴ " -	ELE
F DIME	ENSIO			<i>IETEF</i>	RS		
30"	36"	42"	48"	54"	60"	66"	72"
3'-3"	2'-9 1⁄2"	4'-4 "	4'-10 1⁄2"	5'-5"	6'-0"	6'-6 <i>1</i> ⁄2"	7'-1 "
3'-0"	3'-7 "	4'-2 "	4'-9 "	5'-4"	6'-0"	6'-7 "	7'-2 "
3'-2"	3'-9 "	4'-4 "	4'-10 "	5'-6"	6'-2"	6'-9 "	7'-4 "
4'-6"	5'-1 "	5'-8 "	6'-3 "	6'-10"	7'-6"	8'-1 "	8'-8 "
4'-0 " 3/8	4'-10 5⁄8"	5'-2 3/8"	5' - 9 3/8"	6'-4 "3/8	7'-0 "3⁄8	7'-7 3/8"	8'-2 3/8"
7'-11 "1/4	9'-2 1⁄4"	10'-5 1⁄4"	11'-8 1⁄4"	12'-11 "¼	14'-3 "1⁄2	15'-6 1⁄2"	16' - 9 /⁄z'
12'-4 " 1⁄8	14'-2 7/8"	16'-0 7/8"	17'-10 7/8"	19'-8 "7⁄8	21' - 9 " <i>1</i> ⁄8	23'-7 1⁄8"	25'-5 1⁄8"
8'-4 "⁄⁄2	9'-7 1⁄2"	10'-10 1⁄2"	12'-1 ½"	13'-4 " 1⁄2	14'-8 "5/8	15'-11 5⁄8"	17'-2 5/8"
6'-6"	7'-7"	8'-8"	9'-9"	10'-10"	12'-0"	13'-1 "	14'-2 "
10'-8 1⁄8"	12'-6 "1⁄8	14'-4 " 1⁄8	16' - 2 " _{1⁄8}	18'-0 " <i>y</i> s	20'-0 " ¼	21'-10 1⁄4"	23'-8 1⁄4"

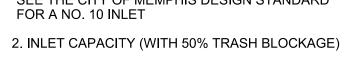




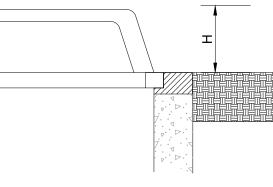


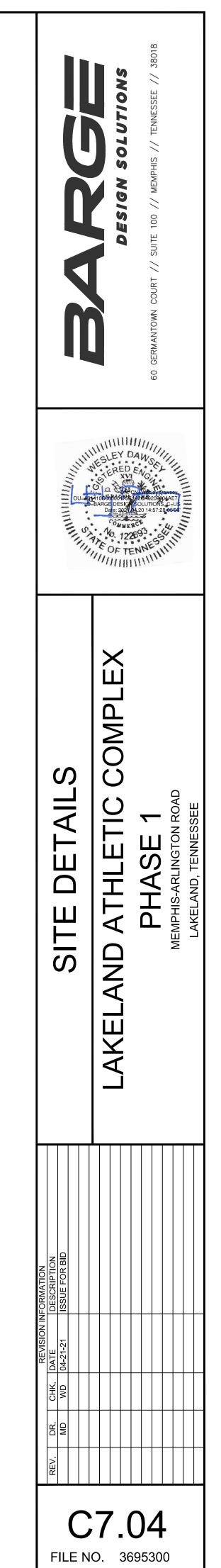


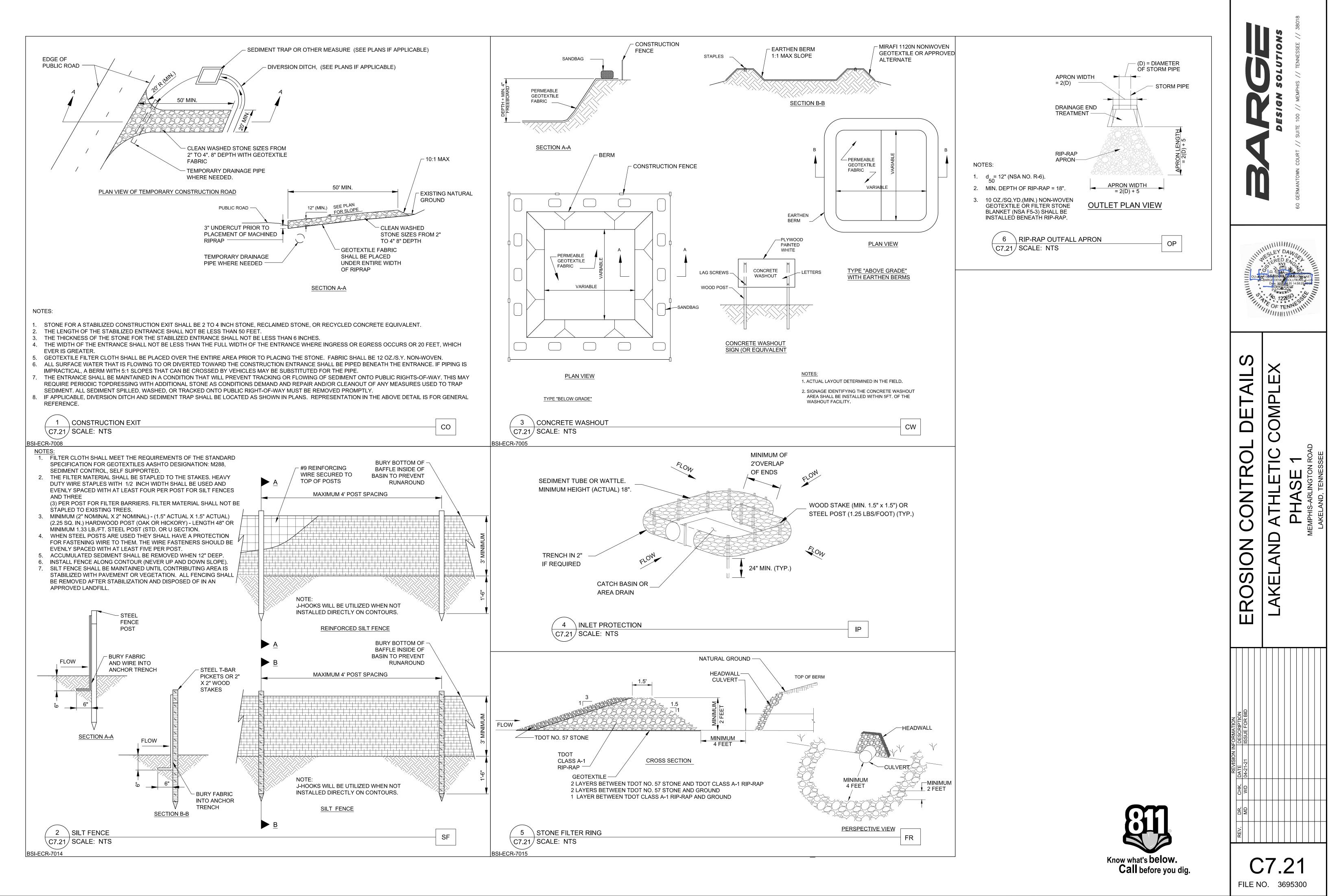


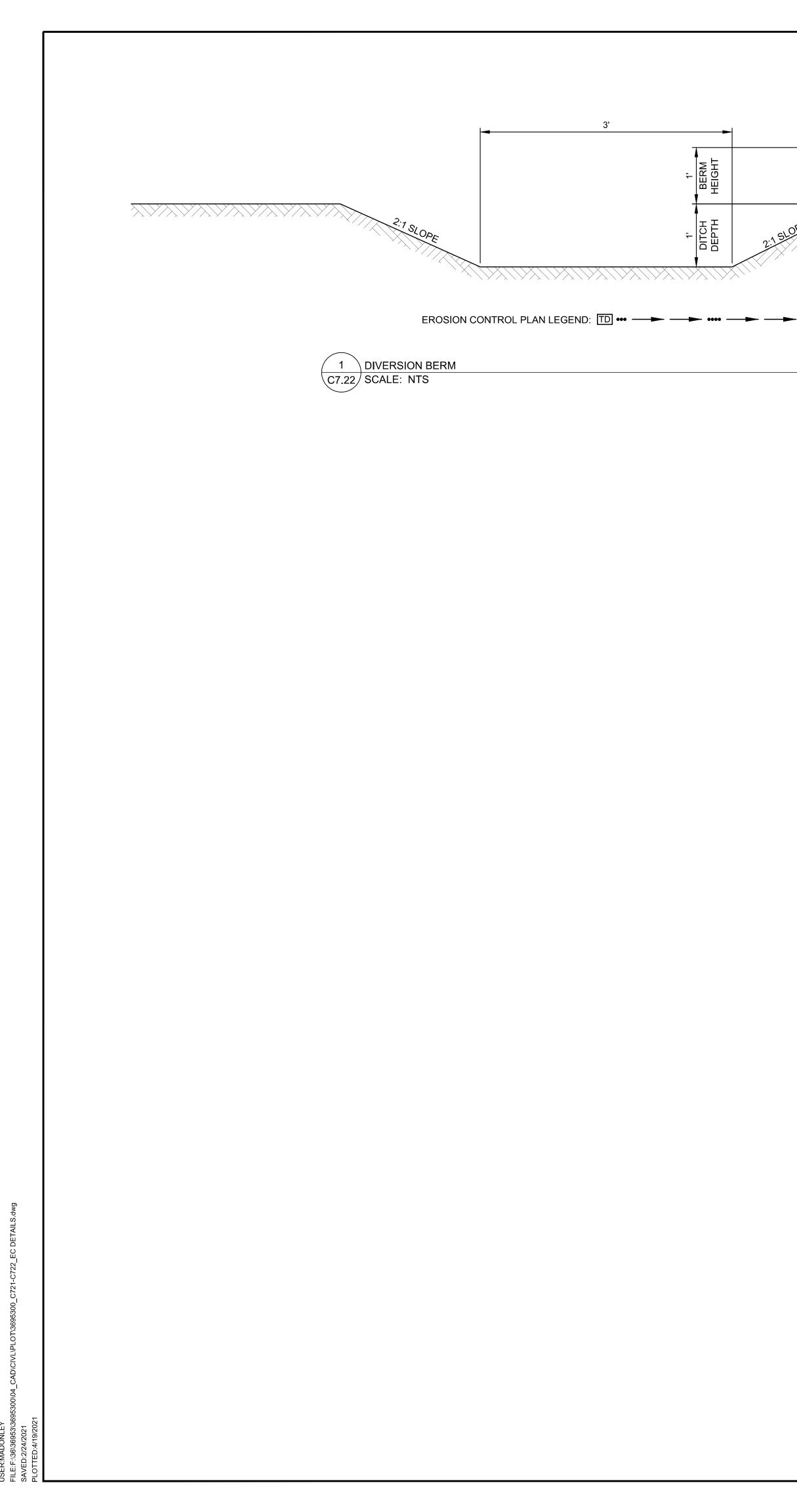


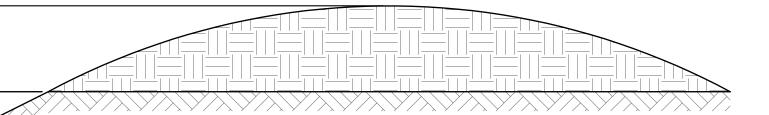
1. FOR INLET STRUCTURE CONSTRUCTION SEE THE CITY OF MEMPHIS DESIGN STANDARD FOR A NO. 10 INLET





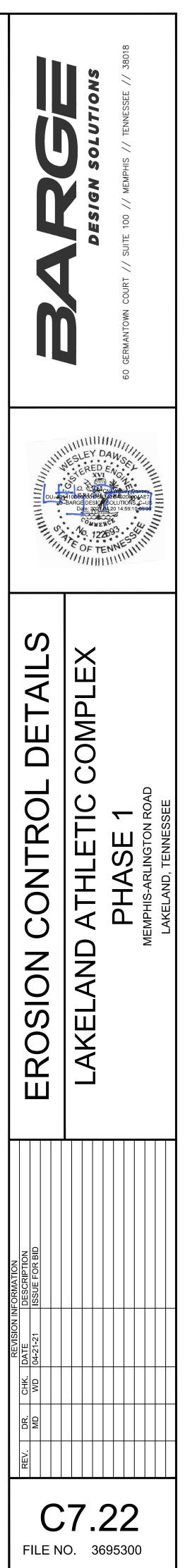






NOTES: 1. CONSTRUCT DIVERSION TO PROVIDE POSITIVE DRAINAGE WITH A MINIMUM RUNNING SLOPE OF 1% IN THE DIRECTION INDICATED ON PLANS.

TD





GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE INSPECTION PRIOR TO BIDDING WORK, TO DETERMINE SITE CONDITIONS AND AREAS TO BE PLANTED. SUBMISSION OF BID INDICATES CONTRACTOR HAS VERIFIED SITE CONDITIONS AND PLANT MATERIAL QUANTITIES.

2. PRIOR TO THE START OF WORK, THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL SURFACE AND UNDERGROUND UTILITIES. ETC., AND SHALL TAKE PROPER PRECAUTIONS TO PREVENT DAMAGE TO SUCH IMPROVEMENTS. IN THE EVENT ANY UTILITIES ARE UNCOVERED, THE LANDSCAPE CONTRACTOR SHALL PROMPTLY NOTIFY THE A/E. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION AND TO REPAIR ANY DAMAGE WHICH SHOULD OCCUR TO THE SATISFACTION OF THE OWNER.

3. EXAMINE SUBGRADE UPON WHICH WORK IS TO BE PERFORMED. VERIFY SUBGRADE ELEVATIONS, OBSERVE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, AND PROVIDE PERCOLATION TESTS AND ALL OTHER TESTS NECESSARY TO ASCERTAIN THAT ADEQUATE GROWING CONDITIONS WILL BE PROVIDED FOR PLANTS. IF PERCOLATION TESTS OR SUBSOIL CONDITIONS INDICATE RETENTION OF WATER IN PLANTING AREAS, AS SHOWN BY SEEPAGE OR OTHER EVIDENCE INDICATING PRESENCE OF UNDERGROUND WATER, NOTIFY A/E IN WRITING OF THIS FACT OR OTHER UNSATISFACTORY CONDITIONS BEFORE BACKFILLING. A CHANGE ORDER MAY BE ISSUED TO DIRECT INSTALLATION OF DRAIN TILE OR OTHER MEASURES BEYOND DRAINAGE REQUIREMENTS INDICATED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. COMMENCEMENT OF PLANTING WORK INDICATES THAT SITE CONDITIONS HAVE BEEN ACCEPTED "AS IS" BY THE CONTRACTOR.

4. ACTUAL AS-BUILT SITE CONDITIONS MAY VARY FROM THIS PLAN. PLANT AND MATERIAL QUANTITIES AS SHOWN ON THE PLAN ARE FOR UNIFORM COMPARISON AND ESTIMATE PURPOSES ONLY. NOTIFY OWNER OF ALL SITE CONDITIONS WHICH WILL AFFECT PLANT QUANTITIES REQUIRED AND/OR THEIR LOCATIONS.

5. THE QUANTITIES INDICATED ON THE DRAWINGS ARE PROVIDED FOR THE BENEFIT OF THE LANDSCAPE CONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATIONS AND THE LIABILITY WHICH PERTAINS TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT QUANTITIES REQUIRED TO COVER SPECIFIED AREAS AT THE DESIGNATED SPACING.

6. PRIOR TO PLANTING, THE CONTRACTOR IS TO OBTAIN SOIL TESTS FOR ALL PLANTING AREAS TO DETERMINE IF THE PROPER SOIL PH IS PRESENT. RESULTS FROM THESE TESTS ARE TO BE SENT TO THE A/E. IF THE TEST INDICATES IMPROPER PH, THEN THE LANDSCAPE CONTRACTOR IS TO MAKE PROVISIONS TO ADD LIME OR SULFUR TO PROVIDE THE PROPER SOIL PH.

7. PROTECT EXISTING GRASS AREAS, TREES, AND OTHER VEGETATION TO REMAIN.

8. DURING LANDSCAPE INSTALLATION KEEP PAVEMENTS CLEAN AND WORK AREA IN ORDERLY CONDITION.

9. CONTRACTOR TO REPAIR ANY PAVEMENTS, CURBS, AND OTHER IMPROVEMENTS DAMAGED AS A RESULT OF LANDSCAPE INSTALLATION ACTIVITIES.

10. DAMAGE BY CONTRACTOR TO UNDISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

11. SUBSTANTIAL COMPLETION: WILL BE PROVIDED AFTER THE CONTRACTOR HAS SATISFACTORILY COMPLETED WORK REQUIREMENTS AS SPECIFIED. THE A/E WILL CONDUCT A SUBSTANTIAL COMPLETION INSPECTION AND PROVIDE A PUNCH LIST OF OBSERVED DEFICIENCIES.

12. FINAL ACCEPTANCE: THE A/E WILL PROVIDE THE FINAL INSPECTION AFTER THE CONTRACTOR HAS SATISFACTORILY CORRECTED THE DEFICIENCIES ON THE PUNCH LIST. SHOULD THE A/E INSPECTION FIND WORK INCOMPLETE. THE CONTRACTOR SHALL REMEDY THE DEFICIENCIES.

13. IF THE SUBSTANTIAL COMPLETION OR FINAL INSPECTION REQUIRE REINSPECTION BY A/E DUE TO FAILURE OF WORK TO COMPLY WITH CONTRACTOR'S CLAIMS ON INITIAL INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE A/E FOR REINSPECTION SERVICES AT THE RATE OF ONE HUNDRED FIFTY DOLLARS NO CENTS (\$150) PER HOUR PER PERSON PLUS ALL RELATED TRAVEL EXPENSES FOR EACH **REQUESTED REINSPECTION TRIP.**

14. AFTER FINAL ACCEPTANCE AND PRIOR TO END OF WARRANTY PERIOD, CONTRACTOR SHALL REPLACE ALL PLANT MATERIAL THAT HAS DIED OR HAS DEFECTS, INCLUDING UNSATISFACTORY GROWTH. IN THE OPINION OF THE A/E.

LANDSCAPE NOTES

1. DIMENSIONS FOR HEIGHTS, SPREAD, AND TRUNK SPECIFIED ON THE MATERIAL SCHEDULE IS A GUIDE FOR THE MINIMUM DESIRED SIZE OF EACH PLANT. AT A MINIMUM, ALL PLANT MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF PUBLICATION ANSI 260.1, AND AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

2. THE LOCATION OF ALL TREES, SHRUBS, AND GROUND COVER AREAS SHOWN ON THE PLAN SHALL BE STAKED/FLAGGED BY THE CONTRACTOR AND APPROVED BY THE A/E BEFORE THE DIGGING OF PITS. PLANTING SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS OR WHERE FIELD LOCATED BY A/E.

3. PROVIDE ONLY PLANTS THAT ARE FREE FROM DISEASES AND PESTS, AND THAT COMPLY WITH THE LATEST EDITION OF PUBLICATION ANSI Z60.1, AMERICAN STANDARDS FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

4. DO NOT MAKE SUBSTITUTIONS REGARDING PLANT SIZES OR SPECIES WITHOUT WRITTEN PERMISSION FROM THE A/E.

5. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT DAMAGES THE BARK, BREAKS BRANCHES, OR DESTROYS ITS NATURAL SHAPE

OR CORD.

7. ONLY "HEMP" BURLAP AND TWINE SHALL BE USED. NO TREATED OR PRESERVED BURLAP OR TWINE IS ALLOWED. ALL HEMP TWINE ATTACHED TO THE TREE TRUNK IS TO BE REMOVED AFTER PLANTING. A MINIMUM THE TOP ONE- THIRD OF THE ROOT BALL IS TO HAVE ALL BURLAP AND TWINE REMOVED.

8. MINIMIZE DAMAGE TO THE ROOT BALL WHEN INSTALLING ALL PLANT MATERIAL. IF ROOTS ARE GIRDLING OR CIRCLING ROOTS WILL NOT BE ACCEPTED BY THE A/E.

9. REMOVE ALL STRINGS AND OTHER TIES FROM TREES.

FINAL ACCEPTANCE.

11. ALL PLANTS SHALL BE HANDLED SO THAT ROOTS ARE ADEQUATELY PROTECTED AT ALL TIMES. DURING SHIPMENT. THE ENTIRE PLANT SHALL BE PROTECTED BY TARPAULINS OR OTHER SUITABLE COVERING. PLANT MATERIAL SUFFERING FROM WIND BURN OR OTHER DAMAGE IS NOT ACCEPTABLE.

12. PLANT BED PREPARATION: THOROUGHLY DISC, SCARIFY, & LOOSEN SUBGRADE OF PLANTING BEDS TO A MINIMUM DEPTH OF 12 INCHES. REMOVE STONES MEASURING OVER 1 INCH IN ANY DIMENSION. REMOVE ROCKS, STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER THAT WILL INTERFERE WITH VEGETATION ESTABLISHMENT OR MAINTENANCE OPERATIONS. ADD SPECIFIED SOIL AMENDMENTS AND MIX THOROUGHLY INTO UPPER 4 INCHES OF TOPSOIL.

13. ALL PLANT BEDS SHALL BE SPRAYED WITH PRE-EMERGENT HERBICIDE (TREFLAN OR EQUIVALENT). APPLIED (ACCORDING TO MANUFACTURER'S INSTRUCTIONS) PRIOR TO PLANTING, FOR NOXIOUS WEED CONTROL. AVOID OVER APPLICATION INTO SEEDED GRASS AREAS.

14. ALL PLANTING BEDS AND TREE PLANTINGS SHALL RECEIVE A MINIMUM 3" DEEP SHREDDED HARDWOOD MULCH LAYER AND TO BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WATER RUNOFF OR WIND.

15. ANY SERIES OF TREES OR SHRUBS TO BE PLACED IN A PARTICULAR ARRANGEMENT WILL BE FIELD CHECKED FOR ACCURACY BY THE A/E. ANY PLANTS INCORRECTLY ARRANGED SHALL BE RELOCATED WITH A/E APPROVAL, AND AT CONTRACTOR'S COST.

17. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR STAKING, GUYING, FERTILIZING, APPLICATION OF INSECTICIDES/HERBICIDES, AND FOR THE WATERING AND MAINTENANCE TO INCLUDE BUT NOT LIMITED TO WEEDING, MULCHING, AND STRAIGHTENING OF ALL INSTALLED PLANT MATERIAL, INCLUDING SOD AND SEED AREAS, UNTIL FINAL ACCEPTANCE OF A/E.

18. ALL PLANT MATERIAL IS TO BE GUARANTEED FOR ONE (1) YEAR. GUARANTEE PERIOD STARTS FROM DATE OF SUBSTANTIAL ACCEPTANCE OF A/E.

19. THE A/E MAY INSPECT TREES AND SHRUBS EITHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, SIZE, AND QUALITY. DESIGNER RETAINS THE RIGHT TO FURTHER INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF ROOT BALL, INSECTS, INJURIES, AND LATENT DEFECTS TO REJECT UNSATISFACTORY OR DEFECTIVE AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED MATERIAL IMMEDIATELY FROM THE PROJECT SITE.

20. REPLACEMENT PLANT MATERIAL SHALL CLOSELY MATCH ADJACENT SPECIMENS OF THE SAME SPECIES AND SHALL CONFORM TO THE STANDARDS FOR PLANT MATERIALS SPECIFIED. ALL REPLACED MATERIAL SHALL IMMEDIATELY BE REMOVED FROM THE SITE AND ALL NECESSARY REPAIRS TO GRADES, LAWN AREAS, PAVING, AND OTHER AREAS DAMAGED DURING REPLACEMENT SHALL BE MADE AT NO COST TO THE OWNER.

21. NO PLANT MATERIAL REQUIRED TO BE BALLED AND BURLAPPED SHALL BE ACCEPTED IF THE BALL IS CRACKED OR BROKEN EITHER BEFORE OR DURING THE PROCESS OF PLANTING, OR WHEN REQUIRED BURLAP, STAVES, ROPES OR PLATFORM HAVE BEEN REMOVED.

6. PLANTS DESIGNATED "B&B" IN THE PLANT LIST SHALL BE BALLED AND BURLAPPED. THEY SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. BALLS SHALL BE FIRMLY WRAPPED WITH BURLAP OR SIMILAR MATERIAL AND BOUND WITH TWINE

10. THE BALLS OF "B&B" PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE COVERED WITH MOIST SOIL OR MULCH, OR OTHER PROTECTION FROM DRYING WINDS AND SUN. ALL PLANTS INSTALLED OR STORED SHALL BE WATERED BY CONTRACTOR AS NECESSARY UNTIL

16. GROUND COVER SPACING PATTERN SHALL BE AS INDICATED ON TYPICAL SPACING PATTERN USING SPACING DIMENSION AS SHOWN ON PLANS AND SCHEDULE.

SODDING NOTES

1. SOD IS TO BE CYNODON DACTYLON 'TIFWAY 419' (T-419 BERMUDA GRASS). SOD ALL AREAS AS INDICATED ON THE PLANS. CONTRACTOR TO SUBMIT SOD VARIETY TO A/E FOR REVIEW. ALL SLOPES GREATER THAN 3:1 SHALL BE PEGGED TO HOLD SOD IN PLACE. ALL DRAINAGE SWALES ARE TO RECEIVE A 6' WIDE BAND OF SOD. PROVIDE A 3' WIDE BAND OF SOD AROUND ALL DRAINAGE INLETS.

2. 4" OF IMPORTED TOPSOIL SHALL BE PROVIDED ON ALL AREAS TO BE SODDED, INSTALLED AND STABILIZED PRIOR TO SOD. TOPSOIL SHALL CONSIST OF 30% SAND, 6-8% ORGANIC MATTER, 64-66% OF NATIVE SOIL. NO DELETERIOUS MATERIAL IN EXCESS OF 1" SHALL BE REMOVED.

3. SOD BED PREPARATION: LOOSEN SUBGRADE OF LAWN AREAS TO A MINIMUM DEPTH OF 8 INCHES. REMOVE STONES MEASURING OVER 1 INCH IN ANY DIMENSION. REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER. ADD SOIL AMENDMENTS IN ACCORDANCE WITH SOIL TEST REQUIREMENTS AND MIX THOROUGHLY INTO UPPER 4 INCHES OF TOPSOIL.

4. THE SOIL SHALL BE THOROUGHLY TILLED TO DEPTH OF FOUR (4) INCHES AND FERTILIZER ADDED. FOLLOWING THIS, THE SOD AREA SHALL BE GRADED TO REMOVE ALL RIDGES AND DEPRESSIONS, AND THE SURFACE CLEARED OF ALL STONE AND DEBRIS.

5. FINE GRADE LAWN AREAS TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL, RAKE, AND DRAG LAWN AREAS, REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES.

6. FERTILIZER: CONTRACTOR SHALL PERFORM A SOIL TEST PRIOR SODDING AND APPLICATION OF ANY SOIL AMENDMENTS, AND SUBMIT RESULTS OF SOIL TESTS TO A/E FOR APPROVAL. APPLY ALL AMENDMENTS PER SOIL TEST RECOMMENDATIONS. SPREAD LIME AND FERTILIZER UNIFORMLY OVER ALL AREAS IMMEDIATELY BEFORE FINAL PREPARATION AND MIX THOROUGHLY WITH THE SOIL.

7. SOD IS TO BE ROLLED AND WATERED WITHIN TWO WEEKS OF INSTALLATION.

8. ENDS OF SOD PANELS ARE TO BE OFFSET. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE SOLID SODDED AREA.

9. SOD IS TO BE LAID AS SOON AS IT IS DELIVERED TO PLANTING AREAS. ONLY HEALTHY, MOIST, AND GREEN SOD IS TO BE LAID. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN 24 HOURS OF DELIVERY IS UNACCEPTABLE UNLESS APPROVED BY A/E.

10. REPAIR AND RESOD ALL ERODED OR DISTURBED SOD AREAS WHERE DESIRED VEGETATIVE COVER HAS NOT BEEN ESTABLISHED, OR WHERE NOXIOUS WEEDS EMERGE.

11. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTENANCE OF SODDED AREAS UNTIL AREAS EXHIBIT HEALTHY AND VIGOROUS GROWTH AS DETERMINED BY A/E.

12. SOD IS TO BE TOP DRESSED WITHIN ONE MONTH OF INSTALLATION.

SEEDING NOTES

- STABILIZE TOPSOIL PRIOR TO SEEDING.
- 2. SEED BED PREPARATION: THOROUGHLY DISC, SCARIFY, & LOOSEN SUBGRADE OF LAWN AREAS TO A ROCKS, STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER THAT WILL INTERFERE WITH THOROUGHLY INTO UPPER 4 INCHES OF TOPSOIL.
- BEFORE FINAL LAND PREPARATION AND MIX THOROUGHLY WITH THE SOIL.
- 4. PERMANENT VEGETATIVE COVER OF AT LEAST 90% IS REQUIRED. APPLY A HYDROMULCH ACCORDING TO SPECIFICATIONS. IF NECESSARY.
- AREAS IN THE SPRING TO ALLOW GROWTH OF PERMANENT VEGETATION.
- ESTABLISHED.
- A/F
- OPERATIONS HAVE BEGUN. FIELD ADJUST FOR UNIFORM COVERAGE.
- SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES, WEED SEED.
- ACCEPTED SUBSTITUTION. INSTALL BLANKETS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- FOLLOWING PLANTING PERIOD: SPRING APRIL 1 THROUGH JUNE 1.
- PER 1,000 SQUARE FEET OF ANNUAL RYE GRASS.
- 15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE WATER TO SEEDED AREAS TO ESTABLISH ACCEPTABLE GRASS COVERAGE.

1. 4" OF TOPSOIL SHALL BE PROVIDED ON ALL AREAS TO BE SEEDED UNLESS NOTED OTHERWISE. INSTALL AND

MINIMUM DEPTH OF 4 INCHES. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION. REMOVE VEGETATION ESTABLISHMENT OR MAINTENANCE OPERATIONS. ADD SPECIFIED SOIL AMENDMENTS AND MIX

3. FERTILIZER: CONTRACTOR SHALL PERFORM A SOIL TEST PRIOR TO SEEDING AND APPLICATION OF ANY SOIL AMENDMENTS, AND SUBMIT RESULTS OF SOIL TESTS TO A/E FOR APPROVAL. APPLY SOIL AMENDMENTS PER SOIL TEST RECOMMENDATIONS. SPREAD LIME AND FERTILIZER UNIFORMLY OVER ALL AREAS IMMEDIATELY

AREAS WILL BE REPLANTED IF PERMANENT VEGETATION IS DISTURBED OR NOT ESTABLISHED. CONTRACTOR TO MECHANICALLY REMOVE GROWTH OF OVER 12" PRIOR TO OVER SEEDING AND RE SEEDING MEADOW

6. REPAIR AND RE SEED ALL ERODED OR DISTURBED SEEDED AREAS WHERE VEGETATIVE COVER HAS NOT BEEN

7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS UNTIL 95% PERMANENT GRASS COVER IS ESTABLISHED AND SEEDED AREAS EXHIBIT HEALTHY AND VIGOROUS GROWTH AS DETERMINED BY

8. APPLY A 1/2" TO 3/4" LAYER OF THRASHED RYE, OAT, OR WHEAT STRAW, OR BERMUDA GRASS HAY. APPLY MULCH ON ALL SEEDED AREAS IMMEDIATELY FOLLOWING SEEDING OPERATIONS. MAINTAIN A COVER OF MULCH UNTIL SEEDS HAVE GERMINATED AND SEEDLINGS ARE A MINIMUM OF 2" HEIGHT AND MOWING

GRASS SEED TO BE CYNODON DACTYLON 'SAHARA' (SAHARA BERMUDA GRASS) : PROVIDE FRESH, CLEAN, NEW- CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL PROPORTIONS, AND MINIMUM PERCENTAGES OF PURITY, GERMINATION AND MAXIMUM PERCENTAGE OF

10. FINE GRADE LAWN AREAS TO SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL, RAKE, AND DRAG LAWN AREAS, REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES.

11. PROTECT ALL SLOPES 3:1 OR STEEPER AGAINST EROSION WITH SPECIFIED EROSION CONTROL BLANKETS OR

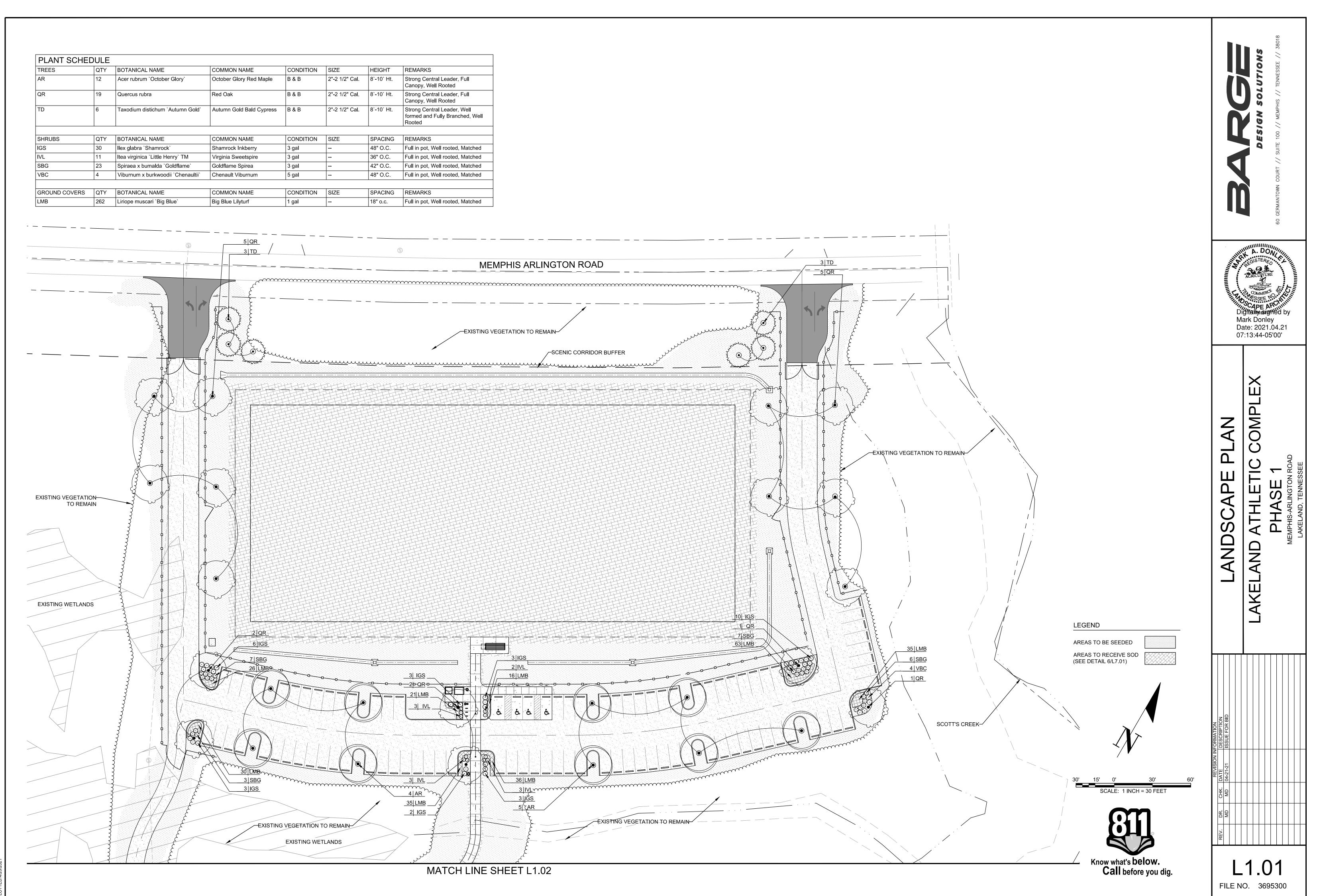
12. UNLESS OTHERWISE APPROVED IN WRITING BY THE A/E, SEEDING OPERATIONS SHALL BE LIMITED TO THE

13. WHEN REQUIRED, SEEDING DURING NOVEMBER 15 THROUGH FEBRUARY 28, ADD AN ADDITIONAL 7 POUNDS

14. SEEDING IS TO BE DONE AS AREAS ARE READY. IF THE CONSTRUCTION SCHEDULE ALLOWS, SEEDING APPLICATION SHOULD BE DONE ACCORDING TO THE OPTIMUM SEEDING DATES DEPICTED IN THE SEEDING SCHEDULE. A TEMPORARY SEED AND APPLICATION IS TO BE ADDED TO THE SEED MIX DURING THE DATES LISTED IN THE SEED SCHEDULE. TIMING OF SEEDING IS TO BE AS NOTED ON DRAWINGS OR SPECIFICATIONS.

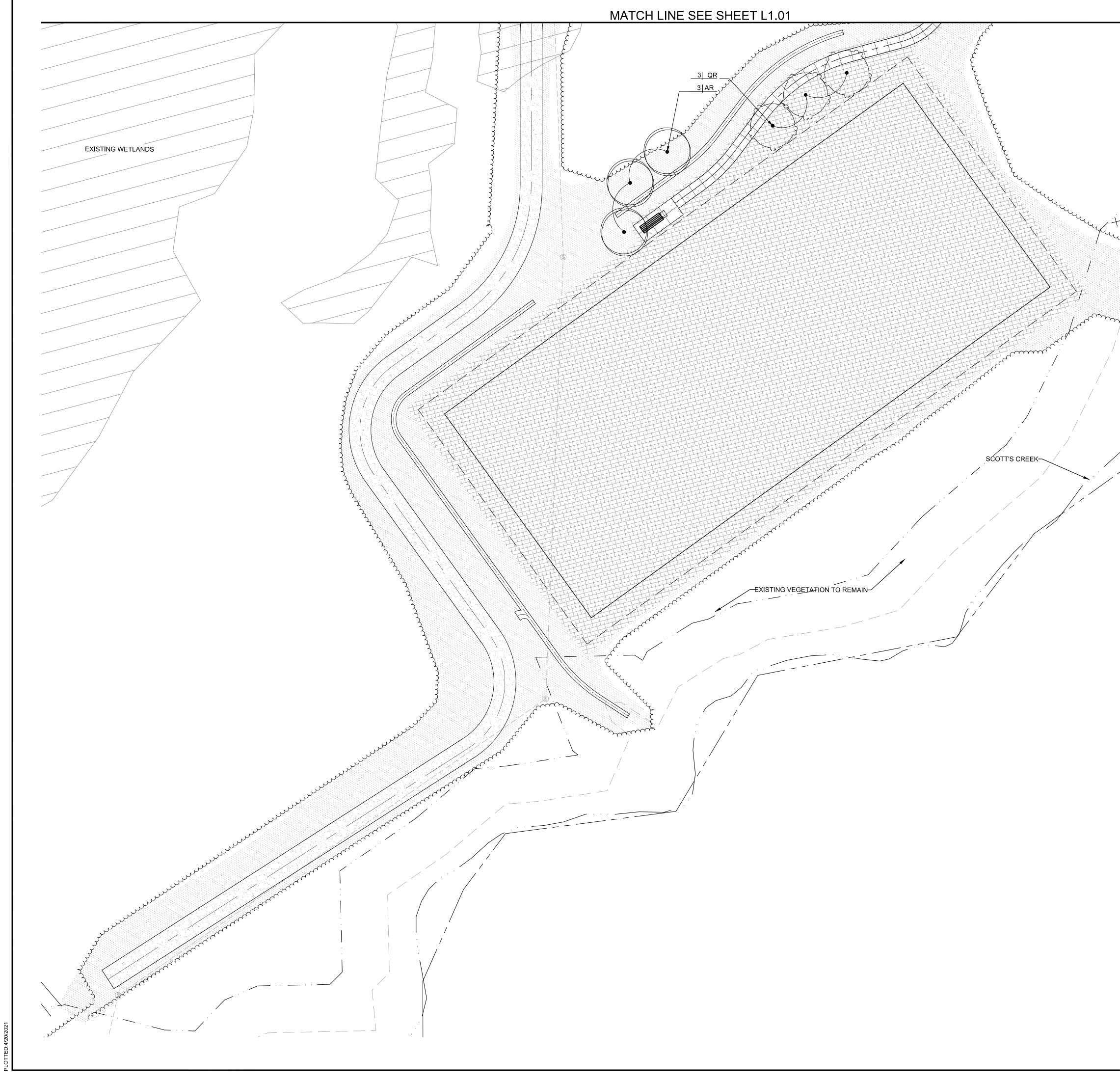


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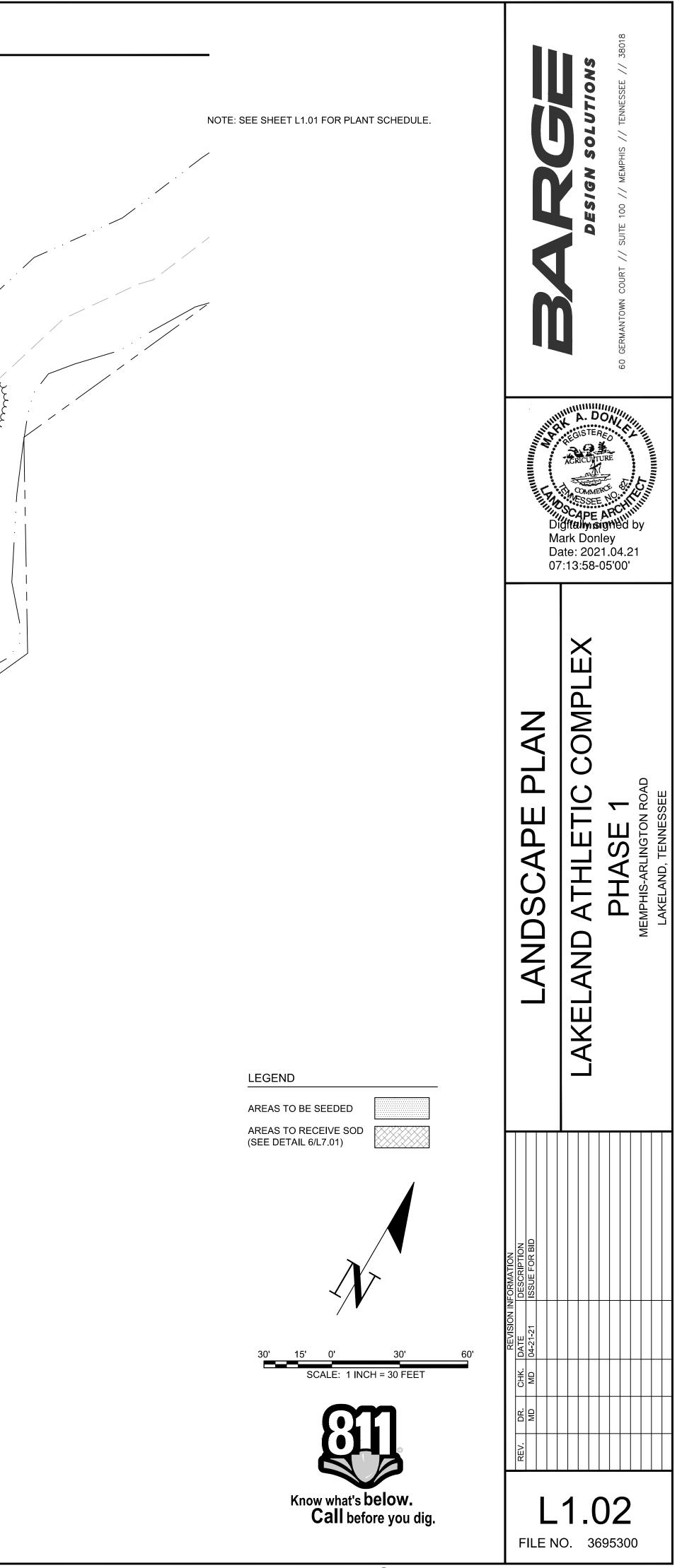


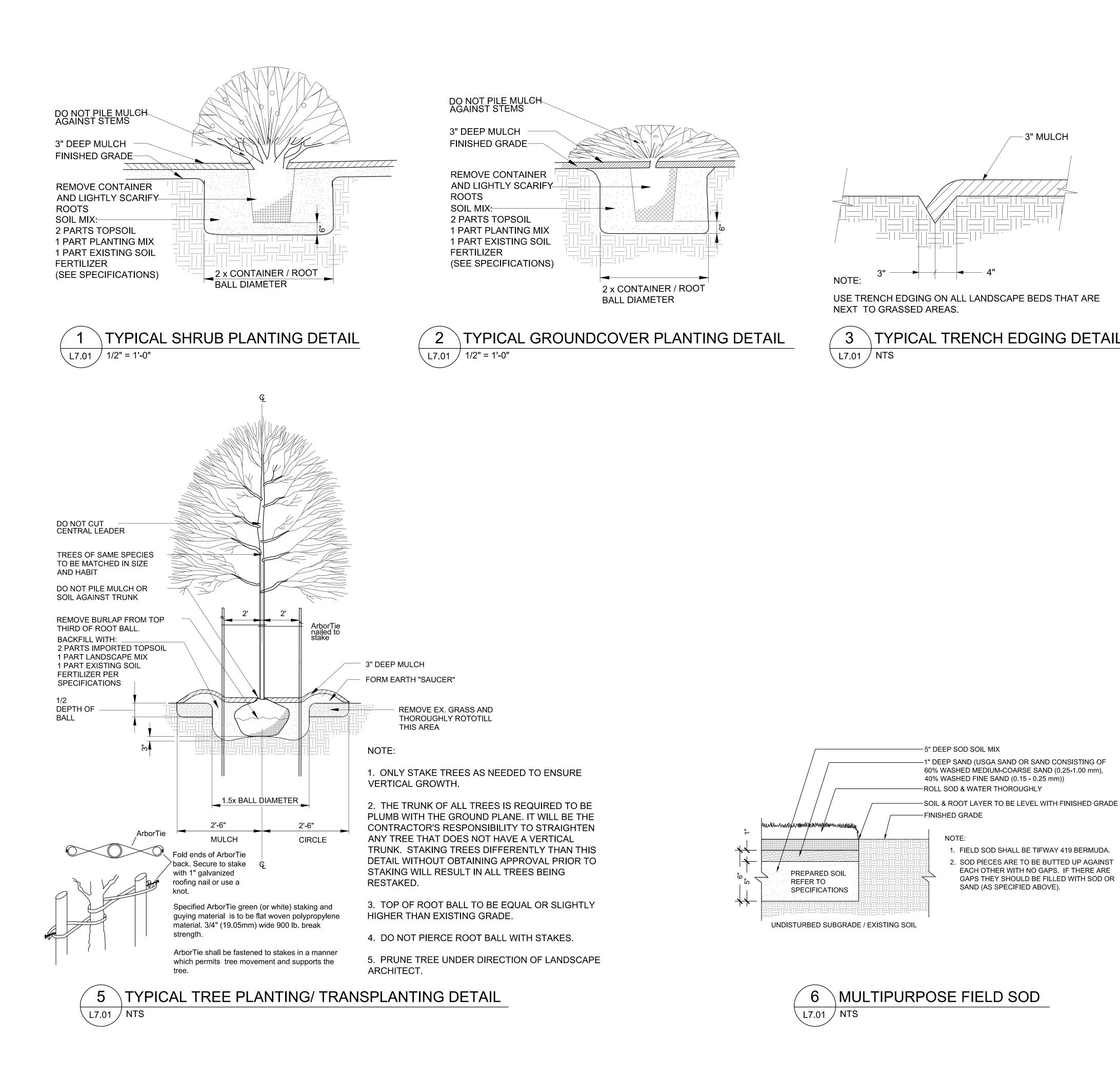
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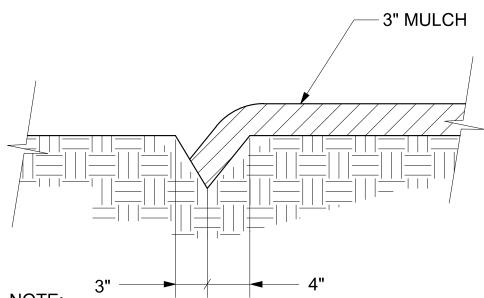
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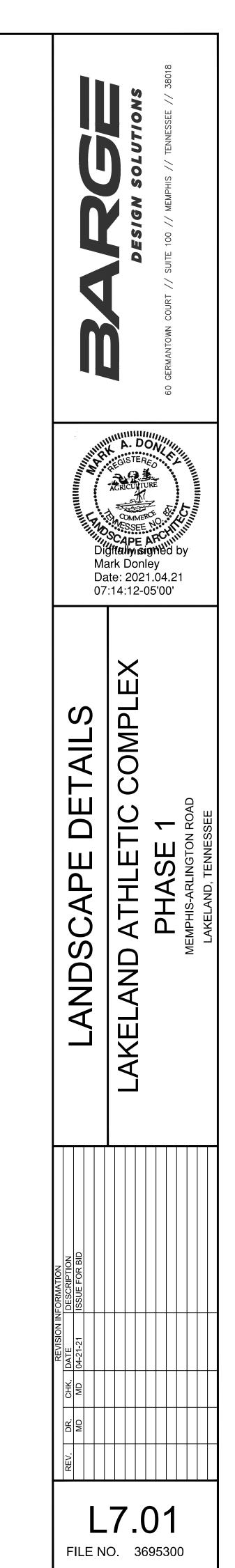
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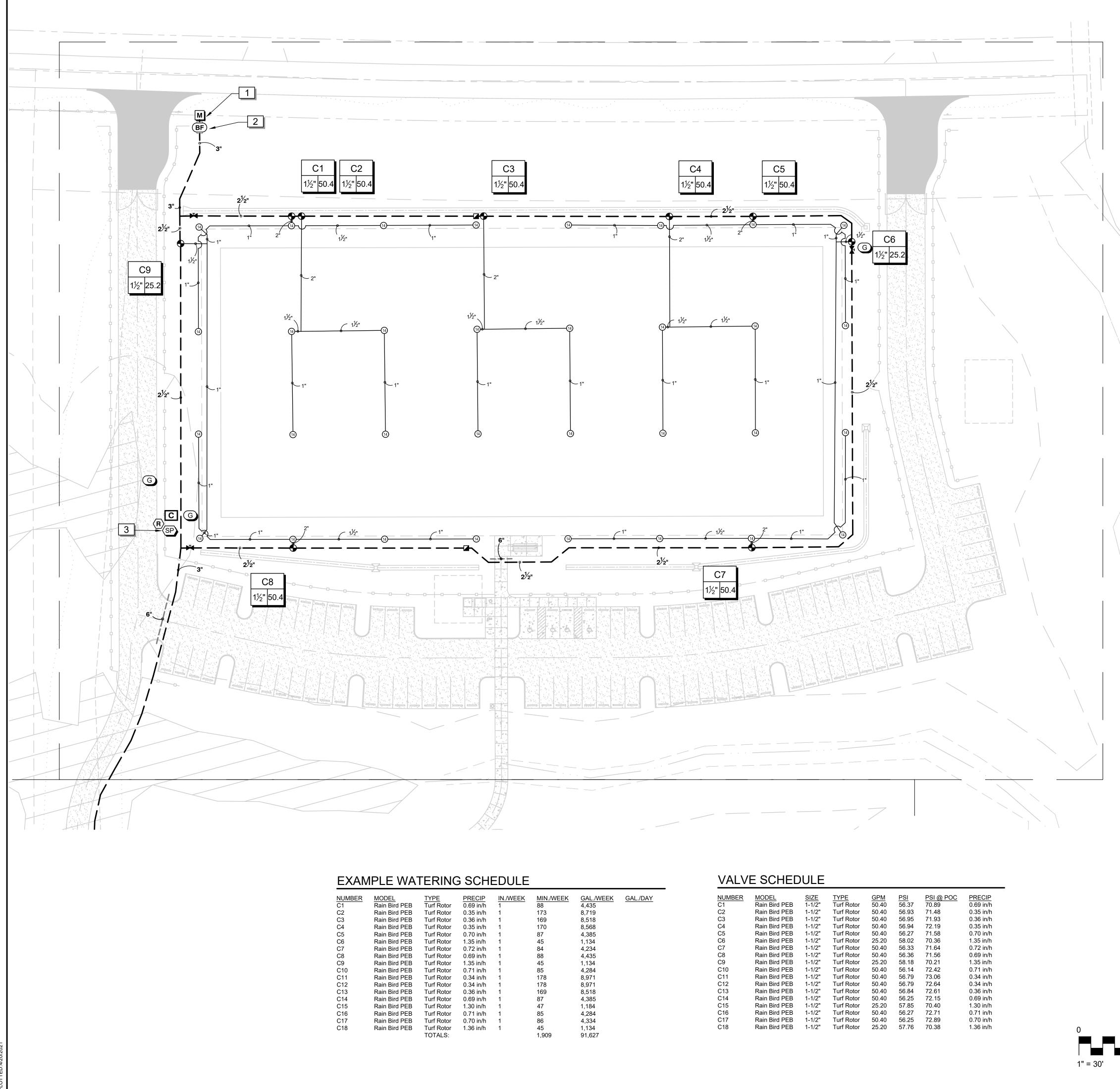


NOTE:	SPACING VARIES
SEE PLANT	LIST

PLANT SPACING (D)	ROW SPACING (A)	SPACING OFF OF PAVEMENT	_
6" O.C.	5"	6"	SPACING VARIES
8" O.C.	7"	8"	SEE PLANT LIST
10" O.C.	9"	8"	
12" O.C.	10"	12"	PLANTS
15" O.C.	13"	18"	
18" O.C.	16"	18"	
24" O.C.	21"	30"	A A
30" O.C.	26"	36"	
36" O.C.	30"	42"	
48" O.C.	42"	48"	TRIANGLE / OFFSET SPACING







IUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	<u>PSI</u>	PSI @ POC	PRECIP
21	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.37	70.89	0.69 in/h
2	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.93	71.48	0.35 in/h
3	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.95	71.93	0.36 in/h
24	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.94	72.19	0.35 in/h
5	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.27	71.58	0.70 in/h
6	Rain Bird PEB	1-1/2"	Turf Rotor	25.20	58.02	70.36	1.35 in/h
7	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.33	71.64	0.72 in/h
8	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.36	71.56	0.69 in/h
9	Rain Bird PEB	1-1/2"	Turf Rotor	25.20	58.18	70.21	1.35 in/h
210	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.14	72.42	0.71 in/h
211	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.79	73.06	0.34 in/h
212	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.79	72.64	0.34 in/h
213	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.84	72.61	0.36 in/h
214	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.25	72.15	0.69 in/h
215	Rain Bird PEB	1-1/2"	Turf Rotor	25.20	57.85	70.40	1.30 in/h
216	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.27	72.71	0.71 in/h
217	Rain Bird PEB	1-1/2"	Turf Rotor	50.40	56.25	72.89	0.70 in/h
218	Rain Bird PFB	1-1/2"	Turf Rotor	25.20	57.76	70.38	1.36 in/h

IRRIGATION SCHEDULE

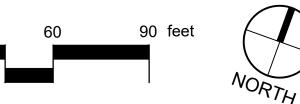
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION				
(14)	Rain Bird 8005-SS Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT Female Threaded Inlet. Extended Radius is Ideal for Large Turf Applications.				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.				
	Rain Bird 44-LRC 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Piece Body.				
×	Matco-Norca 10RT 2" to 8" cast iron gate isolation valve. Ring-Tite Gasket Ends. Resilient wedge with epoxy coating and optional nut. For IPS pipe. Same size as mainline pipe.				
BF	Febco 825Y 2" Reduced Pressure Backflow Preventer				
С	Rain Bird ESP-LXD-LXMM Flow sensing Two-Wire Decoder Commercial Controller. 50 Stations. UV-Resistant, Outdoor-Rated, Powder-Coated Metal Cabinet. Available in the US market, International, European, or Australian Markets.				
$\langle \mathbf{R} \rangle$	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.				
G	2-Wire Grounding Point Install as per plan detail and manufacturers instructions.				
SP	Solar Power Equipment Site One Greentech Model Solar 250Temp See plan detail.				
м	Water Meter 2"				
	Irrigation Lateral Line: PVC Class 200 SDR 21				
<u> </u>	Irrigation Mainline: PVC Class 200 SDR 21				
	Pipe Sleeve: PVC Schedule 40 Valve Callout				
# •	Valve Number				
#" #●-	Valve Flow				
	Valve Size				

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	Irrigation system water source to be a 3" service line to a 2" water meter. System requirements are 51 gpm at a static pressure of 80 psi. Verify available flow and pressure prior to construction.
2	Install 2" RPZ backflow preventer with HDPE insulated enclosure on a concrete pad as per plan detail.
3	Coordinate exact location of the solar panel, irrigation controller and rain sensor with the owners representative. See plan detail for approximate layout of solar panel, controller and rain sensor

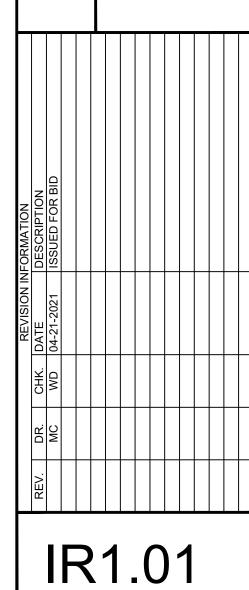
CRITICAL ANALYSIS

Generated:	2020-07-24 14:17
P.O.C. NUMBER: 01 Water Source Information:	
FLOW AVAILABLE Water Meter Size: Flow Available:	2" 120.00 gpm
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	80.00 psi 5.00 ft 3" <u>20.00 ft</u> 77.00 psi
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	50.40 gpm <u>120.00 gpm</u> 69.60 gpm
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Main Line: Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available:	C11 50.00 psi 2.87 psi 0.29 psi 0.00 psi 3.63 psi 56.79 psi 0.21 psi 2.09 psi 0.00 psi 12.04 psi 1.93 psi 73.06 psi 77.00 psi
Residual Pressure Available:	3.94 psi



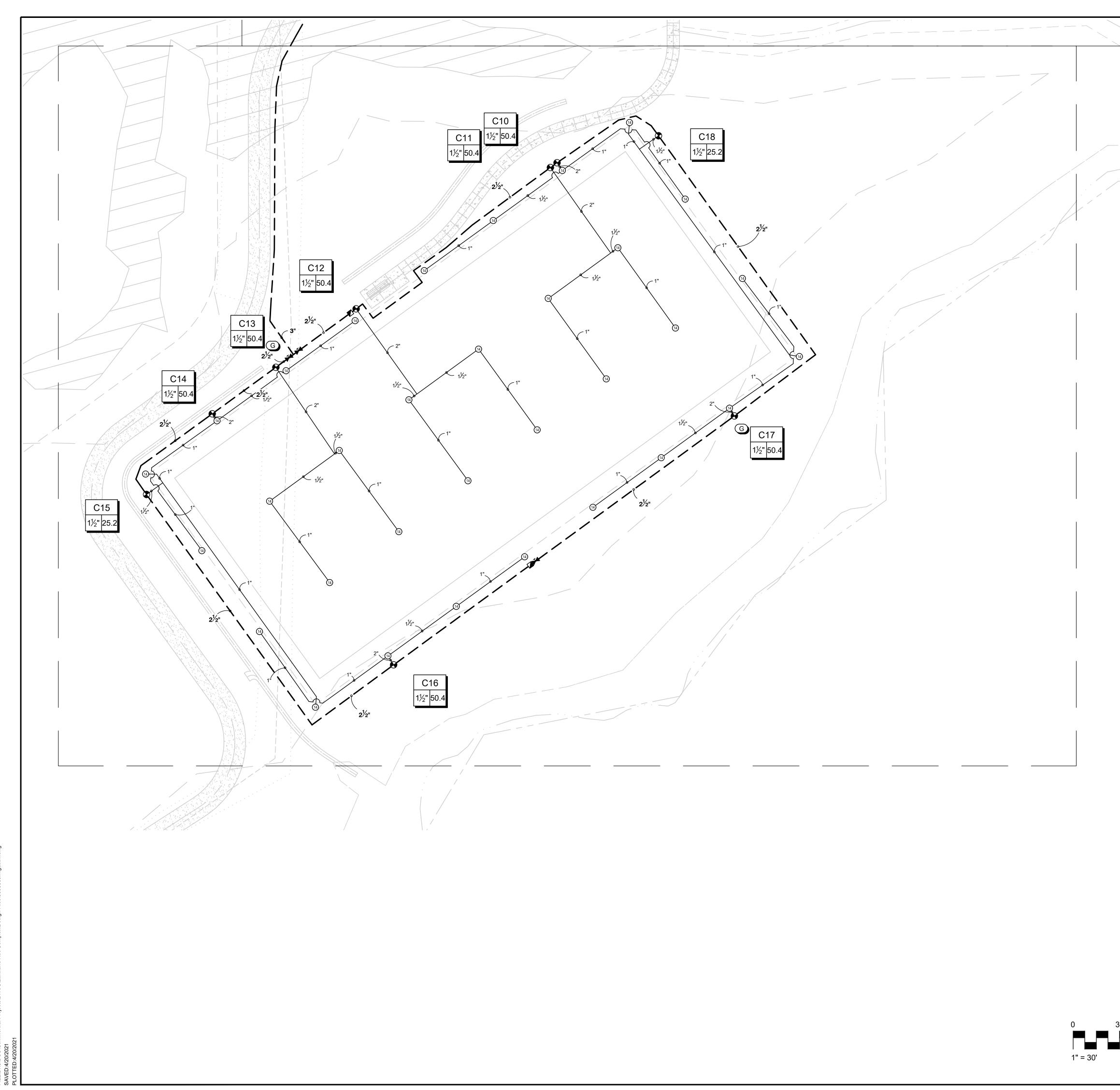


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FILE NO. 3695300



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
(14)	Rain Bird 8005-SS Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT Female Threaded Inlet. Extended Radius is Ideal for Large Turf Applications.
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BF	Febco 825Y 2" Reduced Pressure Backflow Preventer
С	Rain Bird ESP-LXD-LXMM Flow sensing Two-Wire Decoder Commercial Controller 50 Stations

stant Stainless Steel -Piece Body. ket Ends. Resilient pipe. Same size as Flow sensing Two-Wire Decoder Commercial Controller. 50 Stations. UV-Resistant, Outdoor-Rated, Powder-Coated Metal Cabinet. Available in the US market, International, European, or Australian Markets. Rain Bird WR2-RFS Wireless Rain/Freeze Sensor. $\langle \mathbf{R} \rangle$ G 2-Wire Grounding Point Install as per plan detail and manufacturers instructions. Solar Power Equipment Site One Greentech Model Solar 250Temp See plan detail. SP М Water Meter 2" Irrigation Lateral Line: PVC Class 200 SDR 21 _____ Irrigation Mainline: PVC Class 200 SDR 21

---- Pipe Sleeve: PVC Schedule 40 # • #" #⊷

Valve Callout

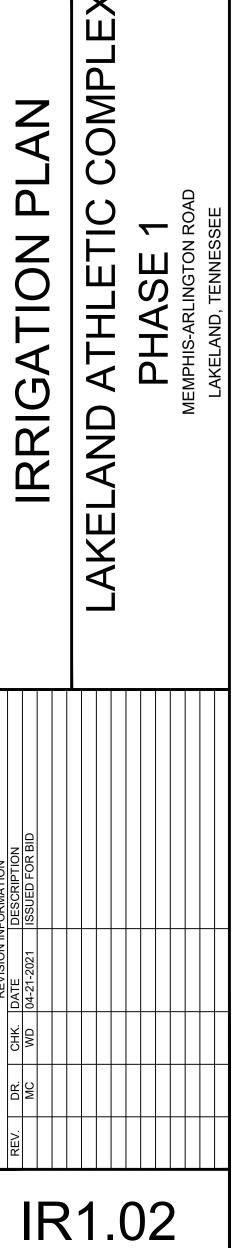
Valve Number

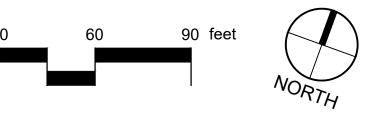
Valve Flow

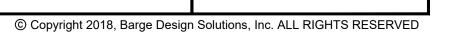
Valve Size

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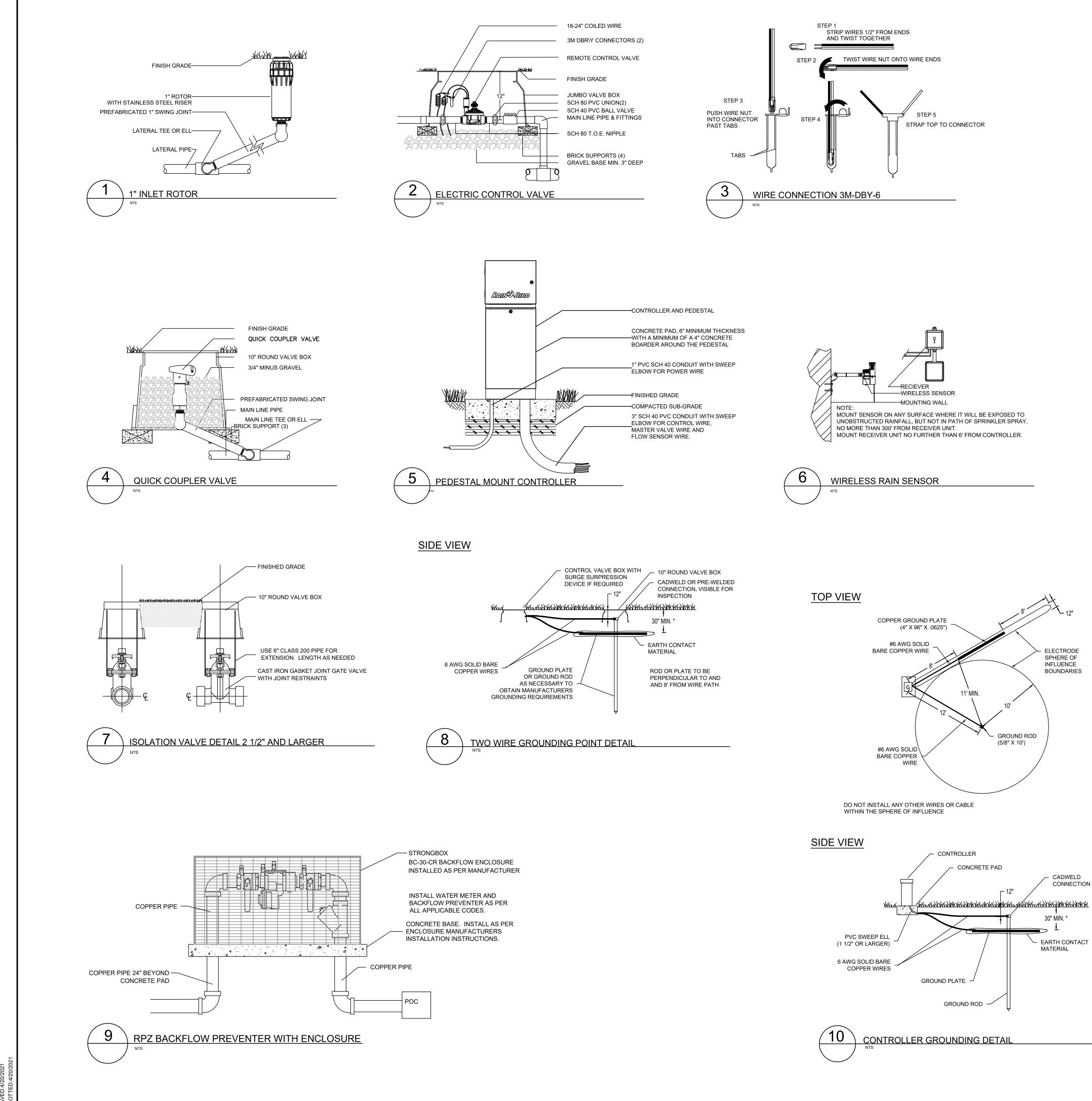
Know what's **below. Call** before you dig.

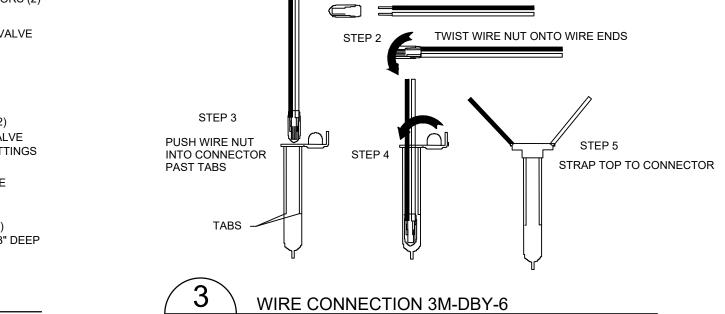






FILE NO. 3695300





GENERAL NOTES

- 1. ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
- 2. MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE 3. LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF
- OF THE HARDSCAPE
- 4. NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL 5. ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
- 6. SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS 7. TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR, JACKETED AND
- APPROVED BY 2-WIRE CONTROLLER MANUFACTURER 8. ALL 2-WIRE CONTROL WIRE TO HAVE 14GA "BLUE" TRACER WIRE FROM THE
- CONTROLLER TO ALL CONTROL VALVES. TRACER WIRE TO HAVE A 24" LOOP LOCATED IN EACH CONTROL VALVE AND ISOLATION VALVE BOXES. 9. WIRE SPLICES TO BE DONE AS PER DETAILS 10. ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE
- BOX 11. TWO WIRE CONDUCTORS TO BE COLOR CODED
- 12. CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER, ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
- 13. AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE
- 14. SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
- 15. ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
- 14" RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE JUMBO VALVE BOX FOR DRIP ZONE KITS
- 16. SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
- 17. CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE 18. ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
- 19. ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN
- LANDSCAPED BEDS WHEREVER POSSIBLE 20. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF
- AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
- 21. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST 22. PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT
- TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS 23. ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
- 24. CONTRACTOR TO PROVIDE 1 YEAR WARRANTEE OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP 25. CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT
- RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION.
- 26. INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
- 27. CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

TWO WIRE CONTROL SYSTEM NOTES

1. ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBY-6 OR BETTER. 2. ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBY-6 OR BETTER

3. ALL GROUNDING POINTS TO HAVE LSP-01 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS AND INSTALLED AS PER DETAIL. 4. ALL 2-WIRE PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE

MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS. 5. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY 2-WIRE INSTALLATION TRAINING PRIOR TO PROJECT START, NOTIFY IRRIGATION

CONSULTANT WHEN TRAINING HAS BEEN COMPLETED. 6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF THE CONTROL SYSTEM. 7. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF THE CONTROL SYSTEM FOR 6 MONTHS FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL. CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.

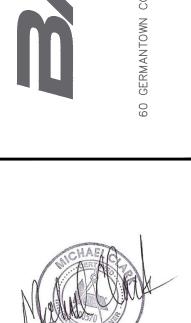
CONTROLLER INSTALLATION NOTES

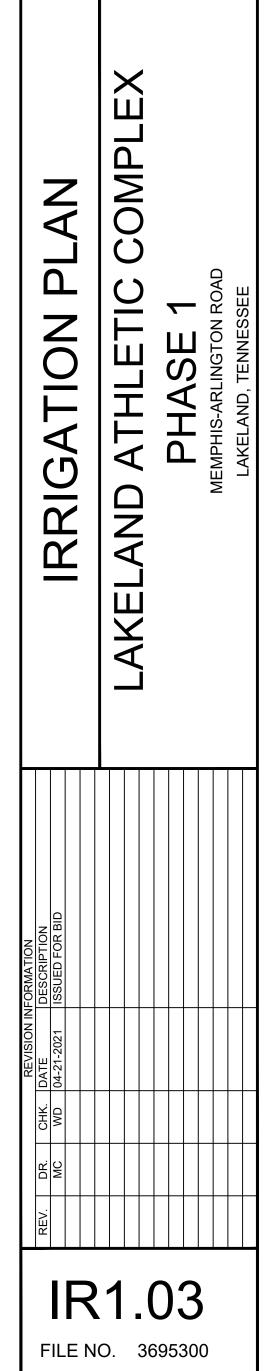
1. IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.

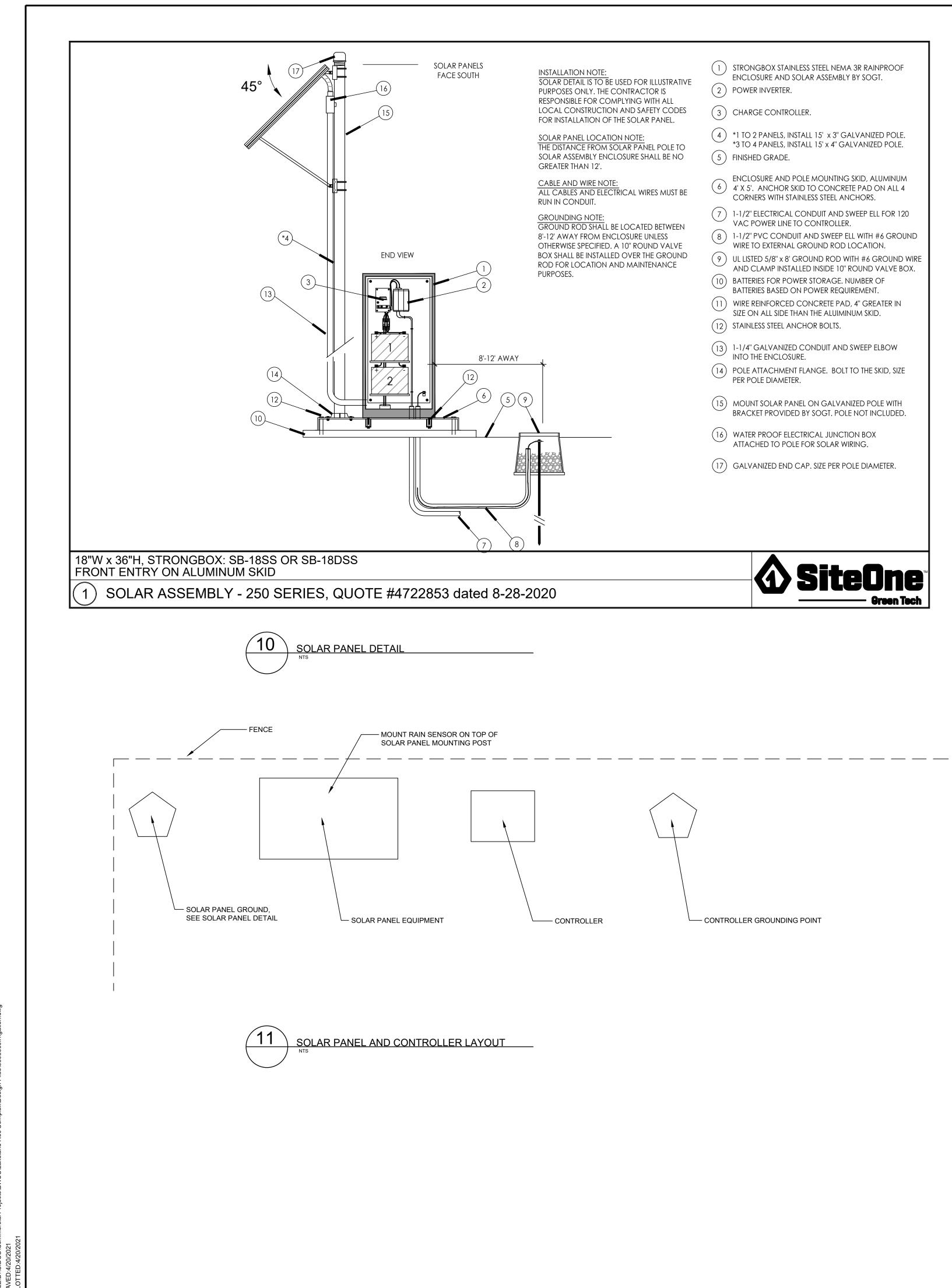
2. PROVIDE 120VAC POWER FROM THE SOLAR PANEL POWER INVERTER TO THE CONTROLLER IN 1-1/4" PVC SCH 40 ELECTRICAL CONDUIT .

3. CONTROLLER TO BE SECURELY ATTACHED TO THE CONCRETE PEDESTAL BASE USING CONCRETE METALLIC WEDGE STYLE ANCHORS. 4. ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC

ELECTRICAL CONDUIT. 5. CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS AND PLAN DETAIL.



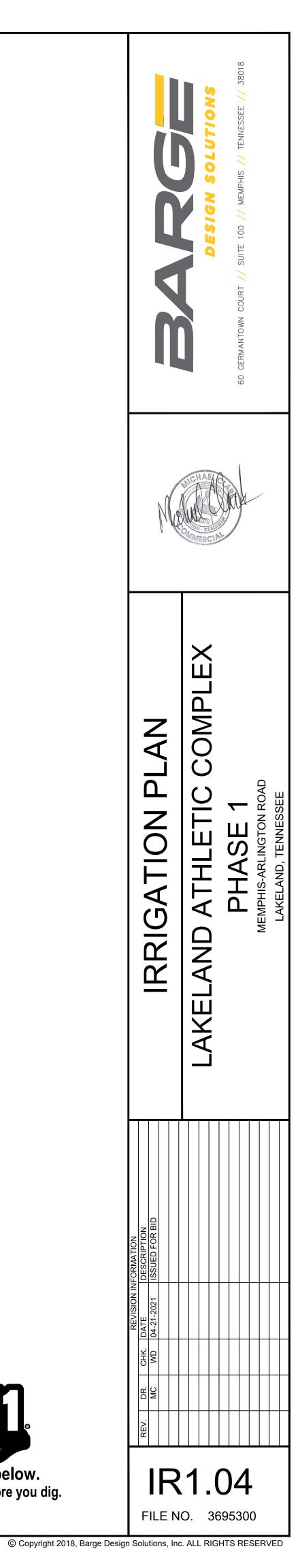




R IS (2) POWER INVERTER. 'H ALL (3) CHARGE CONTROLLER. 'PANEL. (4) *1 TO 2 PANELS, INSTALL 15' x 3" GALVANIZED POLE. 'POLE TO (4) *1 TO 2 PANELS, INSTALL 15' x 4" GALVANIZED POLE. 'L POLE TO (5) FINISHED GRADE. 'S MUST BE (6) ENCLOSURE AND POLE MOUNTING SKID, ALUMINUM '4' x 5'. ANCHOR SKID TO CONCRETE PAD ON ALL 4 CORNERS WITH STAINLESS STEEL ANCHORS. (7) 1-1/2" ELECTRICAL CONDUIT AND SWEEP ELL FOR 120 VAC POWER LINE TO CONTROLLER. (8) 1-1/2" PVC CONDUIT AND SWEEP ELL WITH #6 GROUND WIRE TO EXTERNAL GROUND ROD LOCATION. (9) UIL LISTED 5/8" x 8' GROUND ROD WITH #6 GROUND WIRE	LUSTRATIVE ENCLOSURE AND SOLAR ASSEMBLY BY SOGT. R IS POWER INVERTER. H ALL OPOWER INVERTER. Y CODES 3 CHARGE CONTROLLER. ANEL. 4 *1 TO 2 PANELS, INSTALL 15' x 3" GALVANIZED POLE. *3 TO 4 PANELS, INSTALL 15' x 4" GALVANIZED POLE. *3 TO 4 PANELS, INSTALL 15' x 4" GALVANIZED POLE. *9 POLE TO 5 FINISHED GRADE. S MUST BE 6 ENCLOSURE AND POLE MOUNTING SKID, ALUMINUM 4' X 5'. 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ATTACHED TO POLE FOR SOLAR WIRING.	ATTACHED TO POLE FOR SOLAR WIRING.	ATTACHED TO POLE FOR SOLAR WIRING.	ATTACHED TO POLE FOR SOLAR WIRING. (17) GALVANIZED END CAP. SIZE PER POLE DIAMETER.	ATTACHED TO POLE FOR SOLAR WIRING. (17) GALVANIZED END CAP. SIZE PER POLE DIAMETER.		
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				& SiteOne™		(17) GALVANIZED END CAP. SIZE PER POLE DIAMETER.

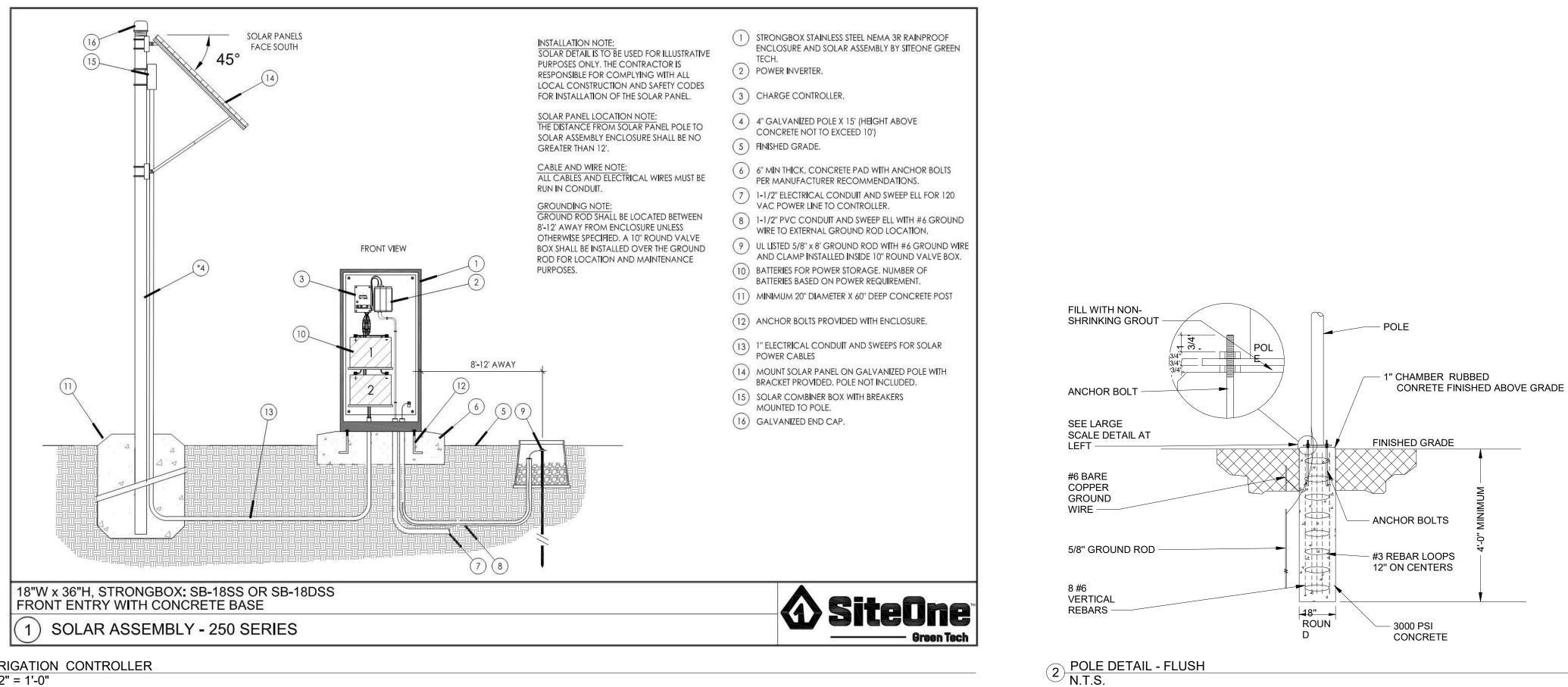
Green Tech

CONTROLLER GROUNDING POINT





1 IRRIGATION CONTROLLER 1/2" = 1'-0"



Type Mark	Count	Manufacture
А	14	SOL EVERGEN

	ELECTRIC		GEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING		BASIC MATERIALS
	SOLAR POLE LIGHTING FIXTURE (LED)		BRANCH CIRCUIT WIRE & CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING, HOME RUN TO PANELBOARD. A NUMERAL, IF PRESENT AT ARROW HEAD, INDICATES CIRCUIT NUMBER. ANY BRANCH CIRCUIT SHOWN WITHOUT SLASH MARKS INDICATES A CONDUIT CONTAINING (3) #12 AWG CONDUCTORS (HOT, NEUTRAL & GROUND). SLASH MARKS, IF PRESENT, INDICATE THE FOLLOWING: HOT (ENERGIZED)
	SERVICE AND DISTRIBUTION		CONDUCTOR, NEUTRAL CONDUCTOR, & GROUND CONDUCTOR
	SWITCHBOARD		WIRE & CONDUIT RUN EXPOSED
	DISTRIBUTION PANEL		WIRE & CONDUIT RUN IN OR UNDER FLOOR
-	BRANCH CIRCUIT PANEL		DISCONNECT SWITCH
Т	TRANSFORMER	(J)	JUNCTION BOX
Ø	MOTOR CONNECTION	S	MANUAL MOTOR STARTER SWITCH
G	GENERATOR CONNECTION	⊖	G.F.I. TYPE DUPLEX RECEPTACLE OUTDOORS (WEATHERPROOF)
	DISCONNECT SWITCH (FUSED AS REQUIRED)		
ר - א א א	MOTOR CONTROLLER (SPECIFIED IN OTHER THAN DIV. 26)		
	COMBINATION MOTOR CONTROLLER & DISCONNECT SWITCH (SPECIFIED IN OTHER THAN DIV. 26)		
\otimes	EQUIPMENT NOT FURNISHED UNDER DIV. 26 (SPECIFIED IN OTHER THAN DIV. 26)		
M	ELECTRIC METER		
R	RELAY		
CB	CIRCUIT BREAKER		
LC	LIGHTING CONTACTOR		
PC	PHOTOCELL		
T	THERMOSTAT		

	ELECTRICAL BBREVIATIONS
SYMBOL	DESCRIPTION
A AFF AFG AIC ANN AUX AWG C CB CKT CLP CT CU DISC EDF FAAP FLA G FI HP HZ KCMIL KVA KW LED MCC MLO N NEC PF SOWB UGW V VA VFD WP XFMR 3PH 4W 30/3	AMPERE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERES INTERRUPTING CURRENT ANNUNCIATOR AUXILIARY AMERICAN WIRE GAUGE CONDUIT CIRCUIT BREAKER CIRCUIT CURRENT LIMITING PANEL CURRENT LIMITING PANEL CURRENT TRANSFORMER COPPER DISCONNECT ELECTRIC DRINKING FOUNTAIN FIRE ALARM ANNUMNICATOR PANEL FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL PANEL FULL LOAD AMPS GROUND GROUND FAULT CURRENT INTERRUPTER HORSEPOWER HERTZ THOUSAND CIRCULAR MILS KILOVOLT-AMPERE KILOWATT LIGHT EMITTING DIODE MOTOR CONTROL CENTER MAIN LUGS ONLY NEUTRAL NATIONAL ELECTRIC CODE POWER FACTOR SPACE ONLY WITH BUS UNDERGROUND ELECTRICAL VOLT VOLT-AMPERE VARIABLE FREQUENCY DRIVE WEATHER PROOF TRNASFORMER THREE POLE THREE PHASE FOUR WIRE 30 AMPERE, 3-POLE

 LIGH	IT FIXTURE S	CHEDU	JLE				
Description	Model	Wattage	Voltage	Luminous Flux	Total Light Loss Factor	Initial Color Temperature	Comments
		•				I	
SOLAR AREA LIGHT & POLE	SOL EVERGEN	20 W		3000 lm	1	4000 K	

GENERAL PROJECT NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION 2. RESISTANT FITTINGS, CLAMPS AND SUPPORT. INTERIOR EXPOSED CONDUIT ABOVE GROUND SHALL BE EMT.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ENGINEER IN WRITING FOR ENGINEER OF RECORD'S OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND REVIEW. 4
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS. COORDINATE LOCATION OF ALL LIGHTING FIXTURES WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN. 6.
- 7. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ALL NEW EQUIPMENT.

CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015 CODE COMMENTS

JURISDICTION Memphis and Shelby County Construction Code Enforcement

- APPLICABLE CODES
- 2015 International Building Code with Local Amendments
- 2015 International Existing Building Code with Local Amendments 2015 International Residential Code with Local Amendments
- 2014 National Electrical Code
- 2018 Joint Electrical Code
- 2015 International Mechanical Code with Local Amendments 2015 International Fuel Gas Code with Local Amendments
- 2015 International Plumbing Code with Local Amendments
- 2015 International Energy Conservation Code with Local Amendments
- 2009 ICC A117.1 Accessibility and Useable Buildings and Facilities)by reference) 2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)

DRAWING LIST - ELECTRICAL

E1.00	ELECTRICAL - LEGEND, GENERAL NOTES, SCHEDULES, & DETAILS
E1.01	ELECTRICAL - PHOTOMETRICS PLAN
E1.02	ELECTRICAL - SITE PLAN



DESC ISSU DATE 04-21-21 CHK. RJH RJH RJH

3 SOLAR PARKING LIGHT FIXTURE N.T.S.

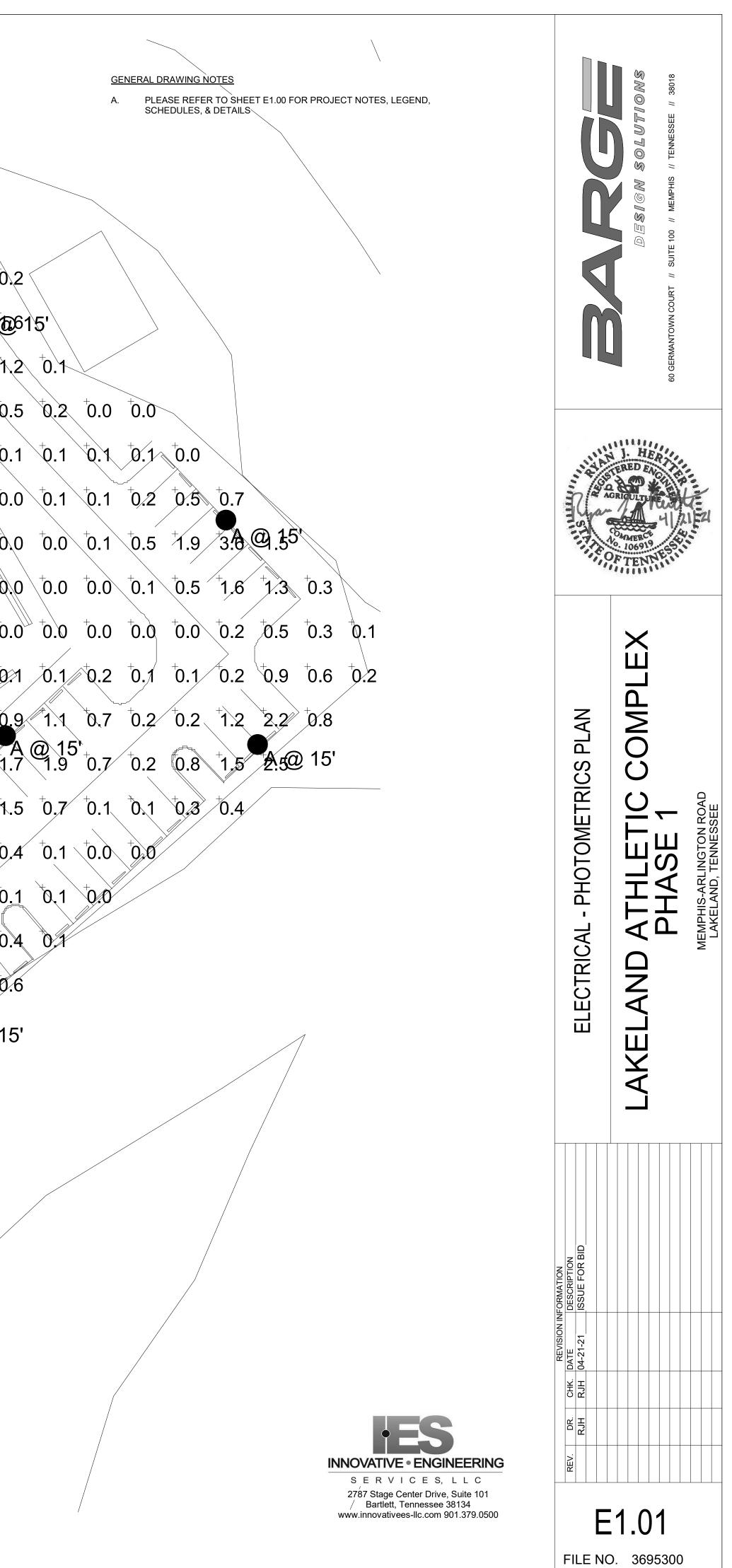
SERVICES, LLC 2787 Stage Center Drive, Suite 101 Bartlett, Tennessee 38134 www.innovativees-llc.com 901.379.0500

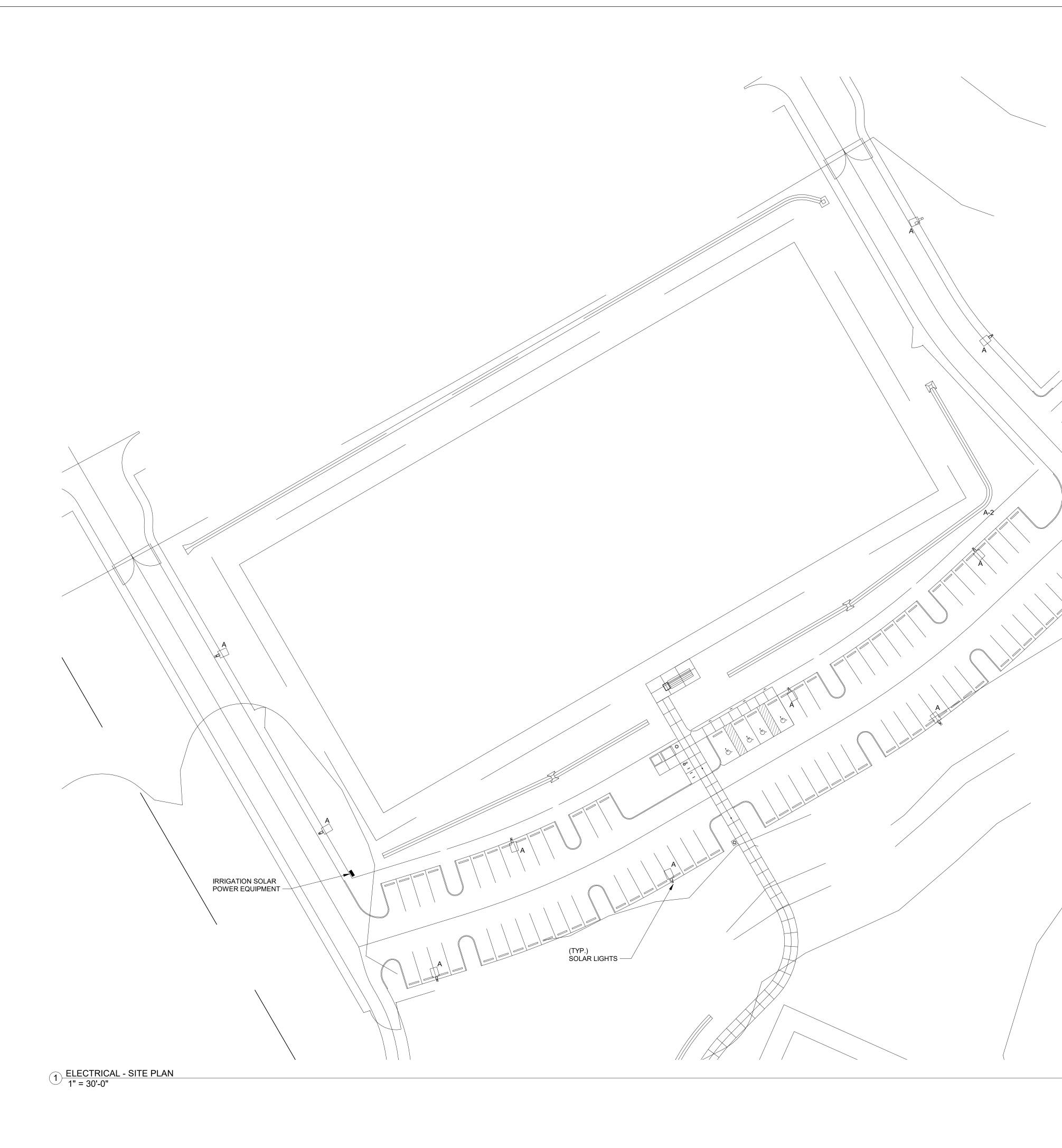


E1.00

FILE NO. 3695300







GENERAL DRAWING NOTES

- A. PLEASE REFER TO SHEET E1.00 FOR PROJECT NOTES, LEGEND, SCHEDULES, & DETAILS
- IRRIGATION SOLAR ASSEMBLY SHALL BE EQUAL TO SITE ON GREENTECH 250 SOLAR SERIES STRONGBOX: SB-18SS WITH 8W CONTINUOUS POWER, 27 HOURS OF RESERVE POWER, & 36AH OF BATTERY CAPACITY. В.
- C. COORDINATE WITH SPRINKLER CONTRACTOR TO PROVIDE LATCHING VALVES SO THAT THEY DO NOT NEED CONSTANT POWER.



OMP PLAN \mathbf{O} \bigcirc Ш MEMPHIS-ARLINGTON LAKELAND, TENNES PHASE ELECTRICAL - SI AND AKEL



JEORMAT DESCR ISSUE

REVISIO DR. CHK. DATE RJH RJH 04-21-21

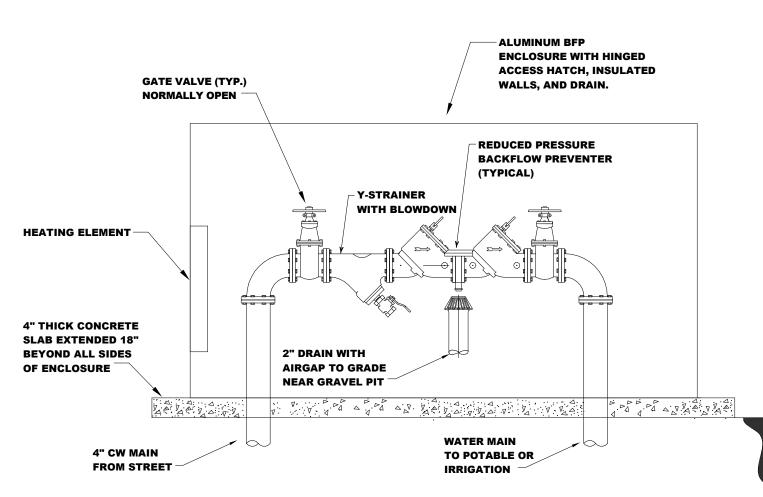
REV.

E1.02

FILE NO. 3695300

GENERAL PROJECT NOTES

- CONTRACTOR SHALL COORDINATE ALL PLUMBING SYSTEMS WITH ALL OTHER TRADES, SO NOT TO CAUSE 1. INTERFERENCES.
- CONTRACTOR SHALL FIELD VERIFY ALL SITE UTILITY CONNECTIONS OR SIZE, LOCATION, AND DEPTH AND INSTALL ALL SYSTEMS IN ACCORDANCE WITH CONDITIONS FOUND (PRIOR TO BEGINNING INSTALLATION). ANY PART OF PLUMBING SYSTEMS INSTALLED INCORRECTLY DUE TO NOT VERIFYING SAME SHALL BE REMOVED AND CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE ENTIRE SYSTEM FOR A PERIOD OF ONE YEAR AFTER FINAL DATE OF ACCEPTANCE. PROVIDE RATED SEALANT FOR ALL PENETRATIONS THROUGH WALLS, CEILINGS AND ROOFS. PROVIDE FIRE STOP
- SEALANT AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS, SO AS TO MAINTAIN FIRE INTEGRITY IN THE EVENTOF A FIRE.
- CONTRACTOR SHALL INSTALL ALL PLUMBING SYSTEMS IN A GOOD WORKMANSHIP MANNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALLAPPLICABLE CODES AND AUTHORITIES.
- CONTRACTOR SHALL REVIEW ENTIRE SET OF DOCUMENTS INCLUDING PLUMBING PLANS AND ADVISE ARCHITECT IN WRITING PRIOR TO BEGINNING CONSTRUCTION IF THERE ARE ANY CODE VIOLATIONS, SPACE CONFLICTS AND/OR OTHER COORDINATION CONFLICTS WITH OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH CODES, ETC.
- SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS, AND EXACT LOCATIONS OF ALL FIXTURES.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS WHERE SPACE AND/OR COORDINATION ISSUES ARISE AND TO CONFIRM ALL SPACE ALLOCATIONS.
- CONTRACTOR SHALL PROVIDE TAMPER-PROOF, LOCKABLE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, ETC.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CHARACTERISTICS OF ELECTRICAL OPERATED EQUIPMENT WITH 10. ELECTRICAL CONTRACTOR PRIOR TOORDERING SAME. THIS APPLIES TO VOLTAGE, PHASE, RATED CAPACITIES, ETC.
- 11. CONTRACTOR SHALL OFFSET ALL PIPING IN BUILDING AS REQUIRED TO PROPERLY INSTALL PLUMBING SYSTEMS.
- 12. CONTRACTOR SHALL PROVIDE SHUTOFF VALVES ON ALL BRANCH RUNOUTS TO FIXTURES. NO EXCEPTIONS!
- AT COMPLETION OF PROJECT, THE CONTRACTOR SHALL REMOVE ALL AERATORS, FILTERS, ETC. AND FLUSH SYSTEM 13. OUT THOROUGHLY.
- CONTRACTOR SHALL VERIFY ALL CONNECTIONS OF MISC. EQUIPMENT FURNISHED BY OTHERS PRIOR TO INSTALLING 14. THE SAME AND MAKE ALL CONNECTIONS FOR THE SAME.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE. ALL HOLES THROUGH CONCRETE 15. SHALL BE CORE-DRILLED. VERIFY LOCATION WITH ARCHITECT BEFORE COMMENCING WORK. ALL PIPING SHALL BE TESTED AND PROVEN TIGHT BEFORE PIPE IS CONCEALED. 16.
- ALL SANITARY PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT, UNLESS NOTED OTHERWISE ON 17. THE PLANS.
- PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND THOROUGHLY INVESTIGATE 18. EXISTING UTILITIES, WORKING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS INCREASING COST WHICH WERE NOT KNOWN WHEN SUBMITTING PROPOSAL IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED DURING A SITE VISIT.
- DISCONNECT AND DISMANTLE EXISTING PLUMBING SYSTEMS AND EQUIPMENT TO BE DEMOLISHED AND LEAVE DEBRIS 19. AND DISCONNECTED EQUIPMENT ON THE FLOOR FOR REMOVAL UNDER SECTION 02070 - SELECTIVE DEMOLITION.
- REMOVE EXISTING PLUMBING STACKS, MAINS AND BRANCHES WHEN SERVING FIXTURES TO BE DEMOLISHED. REMOVE 20. PIPING BACK TO WITHIN 24" OF THE ACTIVE MAIN AND PROVIDE CAP OR PLUG TO SUIT SYSTEM. OBTAIN EXISTING RECORD DRAWINGS FROM THE OWNER. MAINTAIN EXISTING PLUMBING RISERS AND STACKS SERVING FIXTURES TO REMAIN.
- AFTER WALLS AND CEILINGS ARE REMOVED AND PIPING IS EXPOSED, VERIFY PIPING SERVES ONLY PLUMBING 21 FIXTURES & EQUIPMENT INDICATED FOR DEMOLITION BEFORE SHUTDOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES & EQUIPMENT TO REMAIN. PROMPTLY NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.
- REMOVE EXISTING STACKS AND RISERS LOCATED IN EXISTING PARTITIONS TO BE DEMOLISHED AND PROVIDE NEW 22. OFFSET AT CEILING AND DROP THROUGH THE FLOOR AND RECONNECT TO THE EXISTING SERVICES AT THE FLOOR BELOW.
- MISC. CODE NOTES
- PERMITS SHALL BE APPLIED FOR BY LICENSED CONTRACTOR. 1.
- ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE A PLUMBING SYSTEM, WHICH IS TO REGULATED BY THE CODE SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE WORK.
- PLUMBING PLANS & INSTALLATION SUBJECT TO PLUMBING INSPECTOR'S COMMENTS & FIELD APPROVAL
- FLOOR DRAINS LOCATED IN SUCH AREAS WHERE TRAPS WILL NOT BE REPLENISHED SHALL HAVE EITHER A MINIMUM 12" DEEP SEAL TRAP, TRAP PRIMER, OR BE ON AN INDIRECT SYSTEM.
- ALL OF PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CURRENT COUNTY PLUMBING CODE AND LOCAL ADMENDMENTS, PLUMBING INSPECTORS & PLANS EXAMINERS REVIEW.
- PLUMBING CONTRACTOR SHALL PROVIDE INDIRECT WASTE OPENING TO WITHIN 2 FEET OF ALL COOLING COILS & 6. EVAPORATORS FOR CONDENSATE. ROUTE TO HOUSE SIDE OF ACTIVE TRAP & CONNECT TO SAME. VERIFY LOCATIONS IN FIELD WITH HVAC CONTRACTOR PRIOR TO BEGINNING INSTALLATION OF SYSTEMS.
- WATER SUPPLY & SEWER SHALL BE PERMITTED & INSPECTED THROUGH PLUMBING DEPARTMENT.



3 BACKFLOW PREVENTER ENCLOSURE ′ 1/16" = 1'-0"

CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

JURISDICTION
Memphis and Shelby County Co

APPLICABLE CODES 2015 International Building Code 2015 International Existing Build 2015 International Residential C 2014 National Electrical Code 2018 Joint Electrical Code 2015 International Mechanical C

2015 International Fuel Gas Cod 2015 International Plumbing Coc 2015 International Energy Conse

2009 ICC A117.1 Accessibility ar 2013 ASME 17.1 Safety Code for



<u>WC-1</u>

PLUMBING FIXTURE DESIGNATION

X/PXXX **ELEVATION DETAIL DESIGNATION**



REVISION DESIGNATION

5"
7 3/4" x 8 1/2" ACC 2'-3" DOOR SECURED 5.5. 5CF UPPER AND LOW COVER TO BE CH WELD 5"
I2" DIA. VALVE BOX CUT OFF VALV LOW POINT DRAI

	WATER SUPPLY L
SECTION	

1. DRINKING FOUNTAIN TO BE BY MDF FOUNTAINS OR APPROVED EQUAL, COLOR TO BE GREEN. BASE BID INCLUDES AN ADA, HI/LO MODEL; 440 SM FRONT APPROACH. ALL PUSH BUTTONG ON FRONT AND REQUIRE LESS THAN 5 LBS. OF PRESSURE TO OPERATE.

3. CONTRACTOR SHLL PROVIDE ALL PLUMBING REQUIRED.

INSTRUCTIONS.

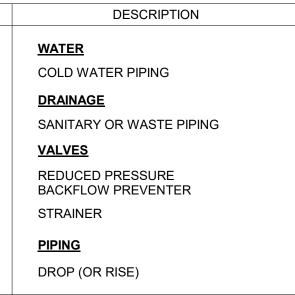
5. CONTRACTOR SHALL VERIFY FOUNTAIN LOCATIONS FOR APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DRINKING FOUNTAIN DETAIL 2 DRINK N.T.S.

PROVIDE 12"X12" **GRAVEL PIT NEXT**

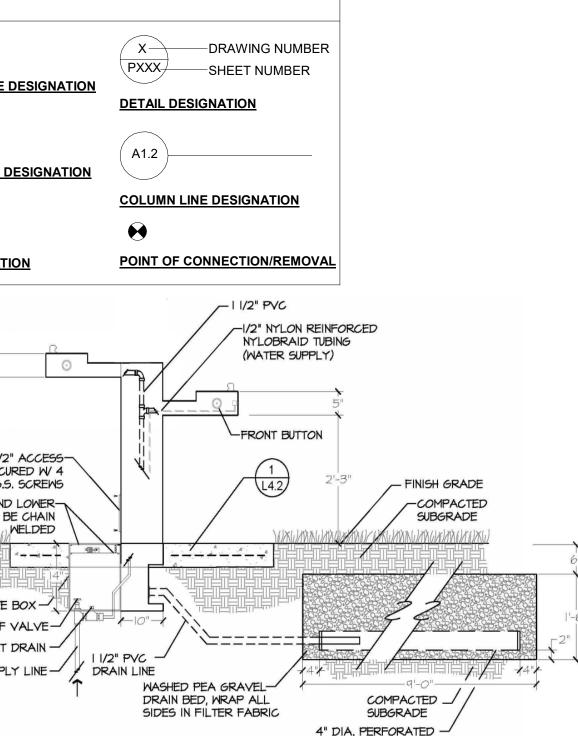
TO ENCLOSURE

CODE COMMENTS			
ty Construction Code Enforcement			
Code with Local Amendments			
Building Code with Local Amendments			
tial Code with Local Amendments			
de			
cal Code with Local Amendments			
s Code with Local Amendments			
g Code with Local Amendments			
Conservation Code with Local Amendments			
ility and Useable Buildings and Facilities)by reference)			
ode for Elevators and Escalators (by reference)			

NG LEGEND



SYMBOLS LEGEND



2. FOUNTAIN TO INCLUDE HOSE BIB WITH LOCKING COVER ON CENTER POST. SUBMIT SHOP DRAWING TO LANDSCAPE ARCHITECT AND ENGINEER OF RECORD PRIOR TO ORDERING UNIT.

4. DRINKING FOUNTAIN SHALL MEET ADA GUIDELINES. INSTALLATION SHALL BE IN ACORDANCE WITH MANUFACTURER'S

PVC PIPE. CAP ENDS

