

1501 SW ARBORWALK BLVD.
LEE'S SUMMIT, MO



DEVELOPER:

CIVIL ENGINEER:

SURVEYOR:

LANDSCAPE ARCHITECT:

VICINITY MAP

TRACT OF LAND IN THE SOUTHWEST AND SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY MISSOURI BEING BOUNDED AND DESCRIBED BY OR UNDER THE DIRECT SUPERVISION OF JASON S. ROUDEBUSH, P.L.S. 20020014092 AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER, ALSO BEING THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 87°53'43" EAST, 100.00 FEET TO THE SOUTHWEST CORNER OF SAID ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; A MINOR SUBDIVISION IN SAID LEE'S SUMMIT RECORDED JANUARY 6, 2006 AS INSTRUMENT NUMBER 200601002453 IN BOOK 191 AT PAGE 53 IN JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 02°06'17" EAST, ON THE WESTERLY LINE OF SAID AMENDED ARBORWALK - 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A, 70.00 FEET; THENCE NORTH 02°05'48" EAST, ON SAID WESTERLY LINE, 7.33 FEET TO A POINT ON THE EXISTING NORTHERLY RIGHT-OF-WAY LINE OF MISSOURI STATE HIGHWAY NO. 50, AS ESTABLISHED BY A MISSOURI STATE HIGHWAY NO. 150 SURVEY CONDUCTED ON JULY 9, 2009 AS INSTRUMENT NUMBER 20090606819 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE, ALSO BEING A POINT OF BEGINNING OF THE TRACT OF LAND LATELY BEING DESCRIBED BY OR UNDER THE SUPERVISION OF JASON S. ROUDEBUSH, P.L.S. 200601002453 TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 325.00 FEET, A CENTRAL ANGLE OF 26°31'46" AND AN ARC DISTANCE OF 150.48 FEET; THENCE NORTH 24°25'11" WEST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 240.58 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 36°32'00" AND AN ARC DISTANCE OF 175.35 FEET; THENCE NORTHEASTERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING A COMMON TANGENT WITH THE LAST DESCRIBED COURSE WITH A RADIUS OF 84.00 FEET, A CENTRAL ANGLE OF 100°32'29" AND AN ARC DISTANCE OF 100.00 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID SW ARBORIDGE DRIVE, ALSO ESTABLISHED BY SAID ARBORWALK 4TH PLAT, A-4 THRU K-4, RECORDED MAY 6, 2005 AS INSTRUMENT NUMBER 200501038320 IN BOOK 186 AT PAGE 73 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTHWESTERLY ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 63°56'56" WEST WITH A RADIUS OF 60.00 FEET, A CENTRAL ANGLE OF 66°03'30" AND AN ARC DISTANCE OF 69.18 FEET; THENCE NORTH 02°06'35" EAST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 59.12 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 325.00 FEET, A CENTRAL ANGLE OF 26°31'46" AND AN ARC DISTANCE OF 150.48 FEET; THENCE NORTH 24°25'11" WEST, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, 240.58 FEET; THENCE NORTHERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 36°32'00" AND AN ARC DISTANCE OF 175.35 FEET; THENCE NORTHEASTERLY, ON SAID EXISTING EASTERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT HAVING A COMMON TANGENT WITH THE LAST DESCRIBED COURSE WITH A RADIUS OF 84.00 FEET, A CENTRAL ANGLE OF 100°32'29" AND AN ARC DISTANCE OF 100.00 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID SW ARBORIDGE DRIVE, ALSO ESTABLISHED BY SAID ARBORWALK 4TH PLAT, A-4 THRU K-4, RECORDED MAY 6, 2005 AS INSTRUMENT NUMBER 200501038320 IN BOOK 186 AT PAGE 73 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE ON A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 87°52'23" EAST WITH A RADIUS OF 470.00 FEET, A CENTRAL ANGLE OF 22°40'59" AND AN ARC DISTANCE OF 186.07 FEET; THENCE SOUTH 65°10'24" EAST, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, 183.16 FEET; THENCE SOUTHEASTERLY, ON SAID EXISTING SOUTHERLY RIGHT-OF-WAY LINE, ON A CURVE TO THE LEFT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 353.03 FEET, A CENTRAL ANGLE OF 02°47'35" AND AN ARC DISTANCE OF 25.84 FEET TO THE NORTHWEST CORNER OF SAID AMENDED ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; THENCE ALONG A LINE NORTHERLY TANGENT TO SAID CURVE TO SAID SOUTHWEST CORNER, 25.84 FEET; THENCE WESTERLY, ON SAID AMENDED ARBORWALK 6TH PLAT, LOTS 3001 THRU 3003 AND TRACT 6-A; 92.90 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE, 41.91 FEET; THENCE NORTH 87°54'12" WEST, ON SAID WESTERLY LINE, 66.85 FEET; THENCE SOUTH 02°05'48" WEST, ON SAID WESTERLY LINE, 217.62 FEET TO THE POINT OF BEGINNING, CONTAINING 516,689 SQUARE FEET OR 11.86 ACRES, MORE OR LESS.

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Note:
NO OIL OR GAS WELLS ARE LOCATED ON THE PROPERTY.
INFORMATION VERIFIED VIA MISSOURI DNR
<https://dnr.mo.gov/geology/geosrv/oilandgas.htm>

SHEET
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GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED, ARE FULLY COORDINATED WITH ALL SUBCONTRACTORS, AND PRESENT ON SITE AT ALL TIMES. CURRENT PLANS PREPARED BY OLSSON MAY BE OBTAINED AT THE DIRECTION OF OLSSON'S CLIENT. DIRECT REQUESTS TO OLSSON MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR INFORMATION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER.

3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.

7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.

8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION OWNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.

12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

1. ARCHITECTURAL AND STRUCTURAL ELEMENTS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTORS AND SURVEYORS SHALL REFERENCE THEIR RESPECTIVE PLANS FOR DESIGN INFORMATION.

2. THE CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AS PROVIDED BY THE GEOTECHNICAL ENGINEER INCLUDING ALL CURRENT ADDENDUMS. THE STANDARDS AND SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI SHALL ALSO APPLY AND TAKE PRECEDENCE WHEN STRICTER THAN THE GEOTECHNICAL REPORT OR WHEN NO GEOTECHNICAL REPORT IS GIVEN.

3. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY:

A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF LEE'S SUMMIT, MISSOURI.

B. ALL CONSTRUCTION IN M&DOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND M&DOT.

C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES..

E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.

3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE CONTROLS TO THE SATISFACTION OF THE RIGHT-OF-WAY OWNER.

2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.

3. IN ADDITION TO THE CONDITIONS OF THE GEOTECHNICAL REPORT AND AS A MINIMUM THE CONTRACTOR SHALL PERFORM THE GRADING AS FOLLOWS:

A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE IN AREAS DESIGNATED BY THE OWNER. CONTRACTOR SHALL REMOVE EXCESS STRIPPINGS AND EXCESS EXCAVATION WITHIN 30 DAYS OF COMPLETION OF GRADING OPERATIONS.

B. AREAS TO RECEIVE FILL AND AREAS OUT TO SUBGRADE LEVEL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE SUBGRADE SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

C. FILL SHALL BE PLACED IN MAXIMUM OF 8 INCH LIFTS.

D. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK. LARGE STONES, STICKS AND LUMPS SHALL BE REMOVED OR BROKEN UP, AND THE TOPSOIL SHALL BE LEVELED AND RAKED. ALL DISTURBED AREAS SHALL BE LANDSCAPED PER LANDSCAPE PLANS OR SHALL BE SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED.

E. CONTRACTOR SHALL PROVIDE COMPACTION TEST RESULTS AS REQUIRED.

4. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES.

5. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED, NOT ALL ADJUSTMENTS ARE INDICATED IN THE PLANS.

6. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

SHOP DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW SHOP DRAWINGS OR SAMPLES CONFORMANCE WITH THE DESIGN FOR THIS PROJECT AS DESCRIBED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. THE ENGINEER'S REVIEW SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND VERIFIED:

A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO.

B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;

C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;

D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.

E. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY COMPLETED THE ABOVE TASKS.

2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT LIMITED TO, THE FOLLOWING:

A. ALL STORM SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.

B. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.

C. ALL SITE FENCING AND RAILING INCLUDING ANY GATES.

D. ALL LANDSCAPE AND RETAINING WALLS.

E. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN 'APPROVED EQUAL' ALTERNATIVE.

SITE PLAN NOTES

1. ALL PAVEMENT DIMENSIONS ARE TO BACK OF CURB, OR EDGE OF PAVEMENT WHERE NO CURB IS PRESENT, UNLESS OTHERWISE NOTED. DIMENSIONED TIES BETWEEN PROPERTY LINES AND BUILDING FACES OR PAVEMENT ARE AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY ADJUSTMENTS NECESSARY FOR FOUNDATIONS, BEDDING EXTENSIONS, SURCHARGING, ETC.

2. INSTALLED PAVEMENT SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT TO PROVIDE SMOOTH SURFACE TRANSITIONS. INSTALLED CURB & GUTTER SHALL MATCH EXISTING CURB & GUTTER IN SIZE AND TYPE OR CONTRACTOR SHALL INCLUDE A TRANSITION FROM NEW TO EXISTING OF NO LESS THAN 5' AS MEASURED ALONG BACK OF CURB.

3. ALL ASPHALT PAVING SHALL BE IN CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. WHERE NOT COVERED BY THE ABOVE, ASPHALT PAVING SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF M&DOT.

4. ALL PCC PAVING SHALL BE IN CONFORMANCE WITH LOCAL CODES AND ORDINANCES AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. WHERE NOT COVERED BY THE ABOVE, PCC PAVING SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF M&DOT.

5. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):

A. CONTROL JOINTS SPACED AS SHOWN IN THESE PLANS OR AT INTERVALS NOT GREATER THAN 1.5x PANEL WIDTH OR 12 FEET (WHICHEVER IS SMALLER).

B. CONTROL JOINTS SHALL BE TOOLED OR SAWCUT TO ¼ THE SLAB THICKNESS. LOCAL STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE WHERE MORE STRICT THAN THOSE LISTED HERE.

C. CONSTRUCTION JOINTS PLACED AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.

D. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NON-EXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.

E. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.

6. ACCESSIBLE PARKING

A. STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA CODES AND ORDINANCES.

B. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.

C. STALLS SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH SHARP EDGES AND ENDS.

7. PAVEMENT MARKINGS SHALL NOT BE APPLIED UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT AND ENGINEER. THE INSTALLED PAVEMENT IS ALLOWED TO AGE AS RECOMMENDED BY THE MANUFACTURER (MINIMUM OF 24 HOURS), AND THE PAVEMENT SURFACE HAS BEEN SWEEP AND CLEANED.

8. PAVEMENT MARKINGS SHALL INCLUDE TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS SHOWN IN THESE PLANS.

9. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE WHITE STRIPES UNLESS OTHERWISE INDICATED WITHIN THESE PLANS. ALL ROAD STRIPING SHALL BE AS INDICATED WITHIN THESE PLANS.

10. CURBS AT FIRE LANES AS DESIGNATIONS BY THE FIRE MARSHAL SHALL BE PAINTED OR OTHERWISE INDICATED PER CITY OF CITY CODES AND ORDINANCES.

11. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS (FHMS) AND CITY OF CITY CODES AND ORDINANCES. USE FLAT BLACK, WHITE, OR YELLOW AS DIRECTED WITHIN PLANS OR IN CONFORMANCE WITH THE FHMS, UNLESS OTHERWISE SPECIFIED USE LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES.

12. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN AND A MINIMUM WET FILM THICKNESS OF 15 MILS. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.

GRADING PLAN NOTES

1. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE, SURFACE OF PAVEMENT, TOP OF CURBS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT PAVEMENT DEPTH FROM ELEVATIONS SHOWN.

2. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.

3. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE.

4. SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED. (SEE LEGEND)

STORM SEWER PLAN NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH LEE'S SUMMIT, MISSOURI.

2. ALL PIPE LENGTHS AND ELEVATIONS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

3. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE. ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND ORDINANCES OR AS AN AID WHEN ORIENTING THE BOX DURING INSTALLATION.

4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF STORM SEWER.

5. STORM SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.

6. STRUCTURE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO ½ THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY THROUGH THE STRUCTURE.

7. PIPE PENETRATIONS SHALL BE GROUTED TO ENSURE WATERTIGHT SEALS.

SANITARY SEWER PLAN NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH LEE'S SUMMIT, MISSOURI.

2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

3. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE. ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND ORDINANCES OR AS AN AID WHEN ORIENTING THE LID DURING INSTALLATION.

4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF SANITARY SEWER.

5. SANITARY SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.

6. MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO ½ THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY THROUGH THE MANHOLE.

7. PIPE PENETRATIONS SHALL BE USE GASKETS TO ENSURE WATERTIGHT SEALS.

8. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.

9. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM OF TWO FULL BUSINESS DAYS IN ADVANCE. CONTRACTOR SHALL FURNISH ALL TESTING EQUIPMENT. TESTING SHALL INCLUDE

A. MANDREL TEST OF ALL GRAVITY SEWERS. IF THE MANDREL TEST FAILS ON ANY SECTION OF PIPE, THAT SECTION SHALL BE UNCOVERED AND REPLACED.

B. AIR PRESSURE TEST OF ALL GRAVITY SEWERS.

C. VACUUM TEST OF ALL MANHOLES.

10. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10' HORIZONTALLY WHEN PARALLEL AND 2' VERTICALLY WHEN CROSSING. WATER LINES SHALL CROSS ABOVE SANITARY SEWERS.

WATER PLAN NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.

2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF FITTING OR WALL OF VAULT.

3. COORDINATES ARE PROVIDED ALONG PIPE CENTERLINE. ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND ORDINANCES OR AS AN AID WHEN ORIENTING INSTALLATIONS.

4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF WATER.

5. WATER PIPE TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.

6. ALL PRIVATE WATER LINES SHALL BE A MINIMUM OF 48 INCHES AND MAXIMUM OF 60 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN UNLESS OTHERWISE NOTED.

7. IF AN AS-BUILT OF A WATER LINE IS REQUIRED OR EXPECTED THE CONTRACTOR SHALL NOT BACKFILL THE TRENCH UNTIL AN AS-BUILT SURVEY IS CONDUCTED.

8. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR AND AS REQUIRED BY THE UTILITY OWNER.

9. BALL EXISTING FIRE HYDRANTS ON SITE OR IN THE RIGHT-OF-WAY BETWEEN PROPERTY AND ROADWAY SHALL BE REPAINTED PER LOCAL CODES AND ORDINANCES.

10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.

DEMOLITION PLAN NOTES

1. ALL NECESSARY DEMOLITION IS EXPECTED TO BE PERFORMED AS INDICATED IN THE SITE DISTURBANCE, MASS GRADING, AND PUBLIC IMPROVMENT PLANS. CONTRACTOR SHALL CONTACT ENGINEER AND OWNER PRIOR TO PERFORMING ANY ADDITIONAL DEMOLITION ACTIVITIES.

2. THE CONTRACTOR SHALL COORDINATE ALL ITEMS TO BE SALVAGED AND/OR PROTECTED WITH SITE OWNER AND UTILITY OWNERS.

3. THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICES TO ANY ADJACENT PROPERTIES. SHOULD ANY INTERRUPTIONS BECOME NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROPERTY AND UTILITY OWNER AND MINIMIZE THE LENGTH OF TIME THE UTILITY IS INTERRUPTED TO THE GREATEST EXTENT POSSIBLE.

4. SECONDARY WIRING, SERVICES, IRRIGATION AND OTHER MINOR SITE IMPROVEMENTS THAT ARE NOT TO REMAIN IN SERVICE ARE TO BE DEMOLISHED AND REMOVED.

5. ALL PAVEMENT SAWCUTS ARE TO BE MADE IN STRAIGHT, CLEAN LINES LEAVING A CLEAN AND STABLE EDGE AT FULL PAVEMENT DEPTH.

6. ALL PCC PAVEMENT AND ALL CURB SHALL BE REMOVED TO NEAREST JOINT.

7. ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN STRICT CONFORMANCE WITH LOCAL CODES AND ORDINANCES.

8. ALL TREE REMOVAL SHALL INCLUDE STUMPS AND ROOTS. DEPRESSIONS GREATED SHALL BE FILLED TO PROVIDE DRAINAGE.

DRY UTILITY PLAN NOTES

1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.

2. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND AND WITHIN CONDUIT UNLESS OTHERWISE SPECIFIED IN THESE PLANS. IF NOT SPECIFIED, ALL CONDUIT SHALL BE IN CONFORMANCE WITH UTILITY OWNER STANDARDS AND SPECIFICATIONS.

3. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS, IF SHOWN AT ALL, ARE SUGGESTED ALIGNMENTS ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AS REQUIRED BY MEP AND RELATED PLANS AS WELL AS SERVICE PROVIDER PRIOR TO PAVEMENT INSTALLATION.

4. ALL CONDUIT SHALL BE SCHEDULE 40 PVC PIPE AND SIZED PER MEP PLANS OR AS NOTED. CONDUIT SHALL BE SUFFICIENTLY FLEXIBLE TO ALLOW IT TO CONFORM TO MINOR CHANGES IN TRENCH DIRECTION OR ELEVATION. ALL OTHER BENDS SHALL BE MADE USING PRE-FORMED SWEEPS.

GENERAL NOTES

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

2023

drawn by: _____ CSM

checked by: _____ CSM

approved by: _____ JS

QA/QC by: _____ JS

project no.: _____ A21-04054

drawing no.: C_TTL01_A2104054

date: _____ 08.10.2022

SHEET

C1.0

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STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE-2017000367
1/28/23

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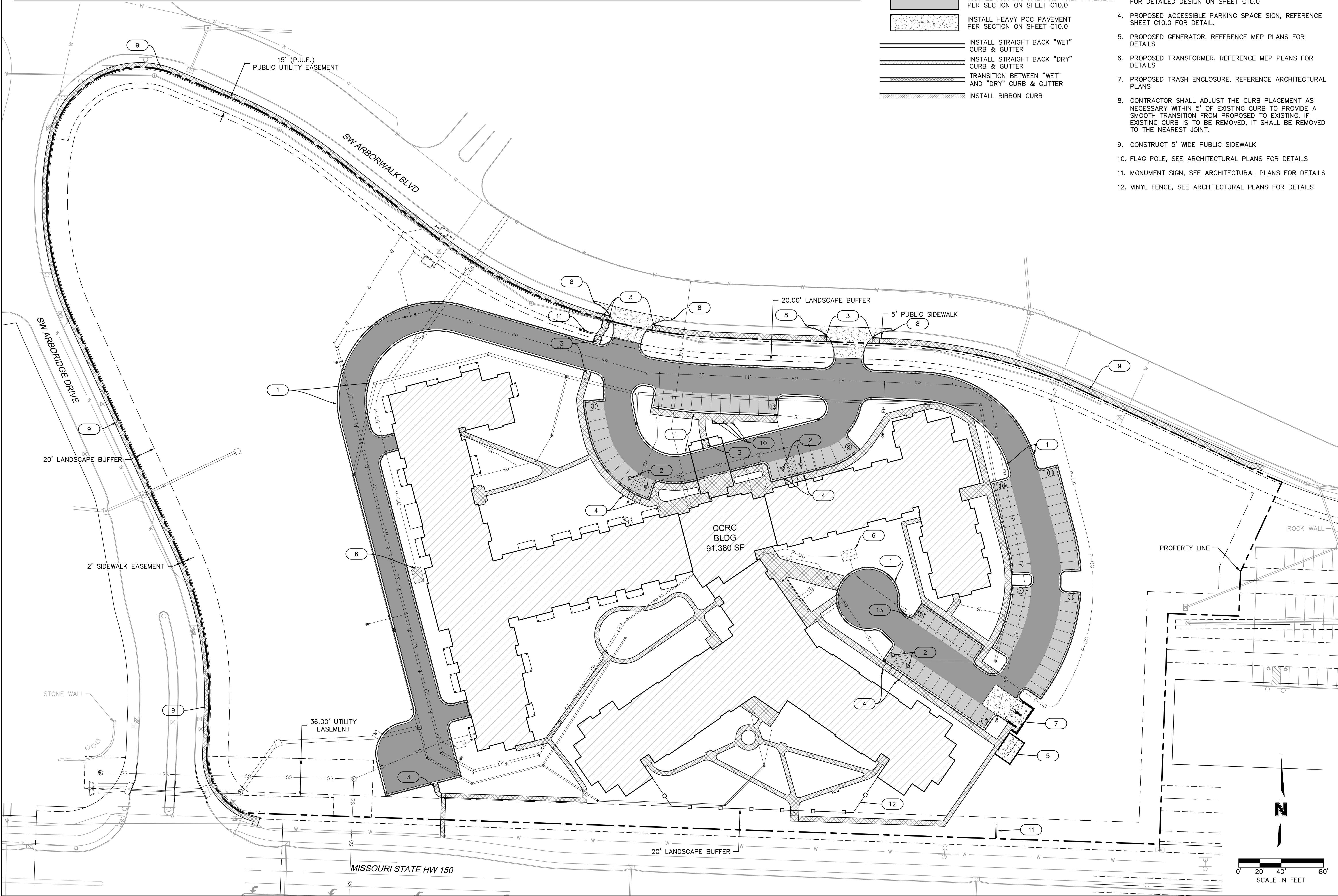
SITE DEVELOPMENT DATA																		
PHASE	Number of Floors	GROSS AREA (AC.)	NET AREA (AC.)	LAND USE	GROSS FLOOR AREA PARKING GARAGE (SF)	GROSS FLOOR AREA 1ST FLOOR (SF)	GROSS FLOOR AREA 2ND FLOOR (SF)	BUILDING COVERAGE (SF)	F.A.R.	# OF Dwelling Units	# OF BEDS	MAX # EMPLOYEES	PARKING STALLS REQUIRED			OPEN SPACE (SF / %)	IMPERVIOUS COVERAGE (SF / %)	
													RATIO	REQUIRED*	PROVIDED			
Main Campus (ALU, ILU, SNF Wings)	2	11.86	11.86	Skilled Nursing	23,471	85,707	52,124	161,302	0.31	126	138	62	1 Space for 2 beds (138/2) + 1 Space (plus 1) employee on max shift (62+1)	131	Surface Garage	91 46	338,012.57 SF 65.4%	178,609.03 SF 34.6%
*PARKING CALCULATIONS BASED ON NUMBER OF BEDS OF RESIDENTS ALLOWED TO OWN AND OPERATE VEHICALS															TOTAL	137		

LEGEND

- INSTALL SIDEWALK
PER SECTION ON SHEET C10.0
- INSTALL DRIVE AREA ASPHALT PAVEMENT
PER SECTION ON SHEET C10.0
- INSTALL PARKING AREA ASPHALT PAVEMENT
PER SECTION ON SHEET C10.0
- INSTALL HEAVY PCC PAVEMENT
PER SECTION ON SHEET C10.0
- INSTALL STRAIGHT BACK "WET"
CURB & GUTTER
- INSTALL STRAIGHT BACK "DRY"
CURB & GUTTER
- TRANSITION BETWEEN "WET"
AND "DRY" CURB & GUTTER
- INSTALL RIBBON CURB

KEYNOTES (X)

- CONSTRUCT CONCRETE CURB & GUTTER, SEE LEGEND.
- ACCESSIBLE PARKING AND RELATED CURB RAMP. SEE SPOT ELEVATION DETAILS FOR DETAILED DESIGN ON SHEET C4.5-C4.6.
- ACCESSIBLE CURB RAMP. SEE SPOT ELEVATION DETAILS FOR DETAILED DESIGN ON SHEET C10.0
- PROPOSED ACCESSIBLE PARKING SPACE SIGN, REFERENCE SHEET C10.0 FOR DETAIL.
- PROPOSED GENERATOR. REFERENCE MEP PLANS FOR DETAILS
- PROPOSED TRANSFORMER. REFERENCE MEP PLANS FOR DETAILS
- PROPOSED TRASH ENCLOSURE, REFERENCE ARCHITECTURAL PLANS
- CONTRACTOR SHALL ADJUST THE CURB PLACEMENT AS NECESSARY WITHIN 5' OF EXISTING CURB TO PROVIDE A SMOOTH TRANSITION FROM PROPOSED TO EXISTING. IF EXISTING CURB IS TO BE REMOVED, IT SHALL BE REMOVED TO THE NEAREST JOINT.
- CONSTRUCT 5' WIDE PUBLIC SIDEWALK
- FLAG POLE, SEE ARCHITECTURAL PLANS FOR DETAILS
- MONUMENT SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS
- VINYL FENCE, SEE ARCHITECTURAL PLANS FOR DETAILS



BY

CSM

REV. NO.

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01.20.2023

REVISIONS

2023

SITE PLAN

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

drawn by: CSM

checked by: CSM

approved by: JS

QA/QC by: JS

project no.: A21-04054

drawing no.: C_SIT01_A2104054

date: 08.10.2022

SHEET

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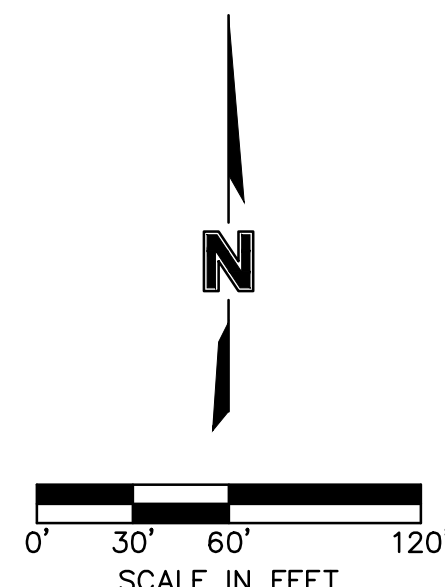
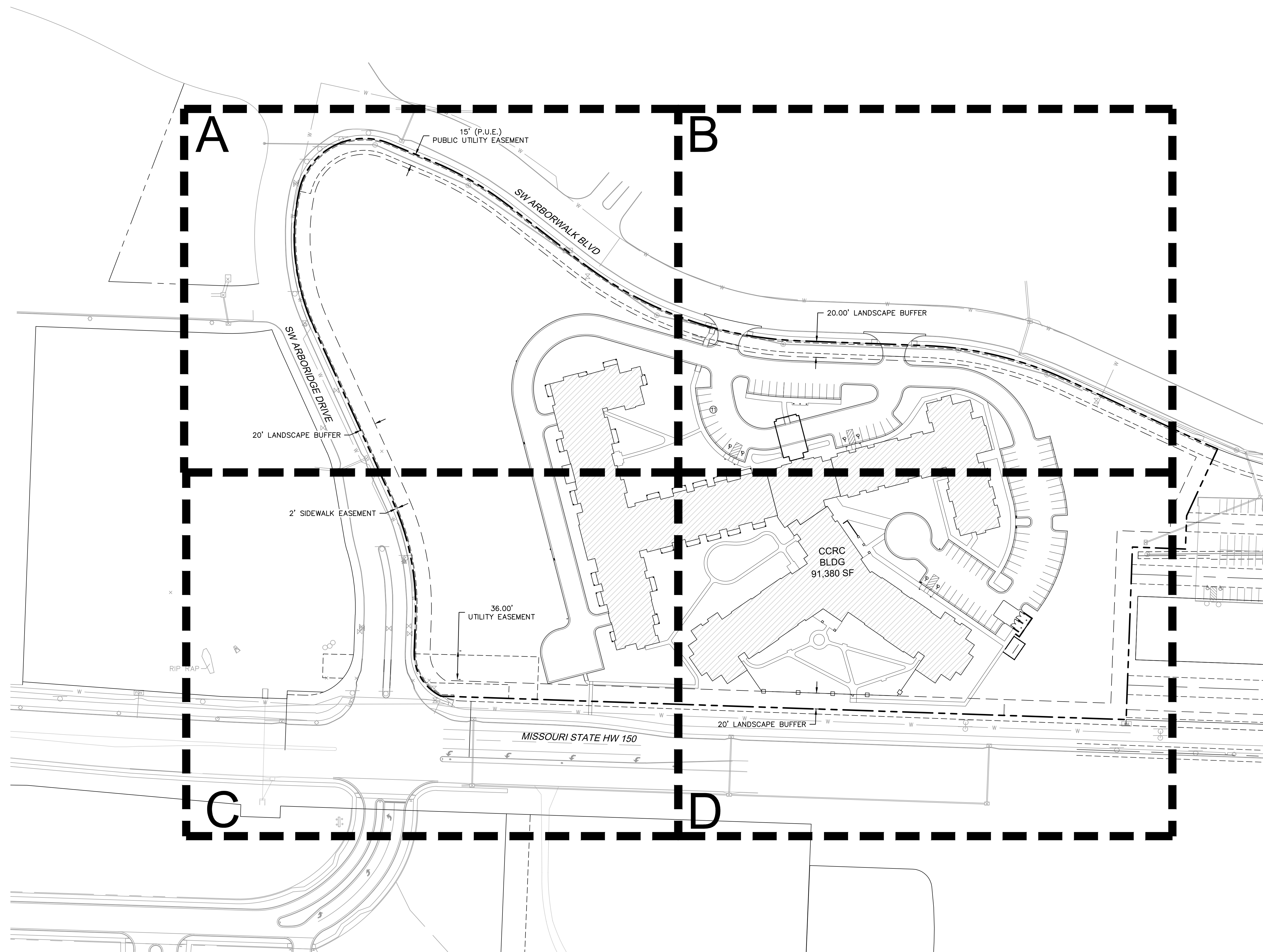
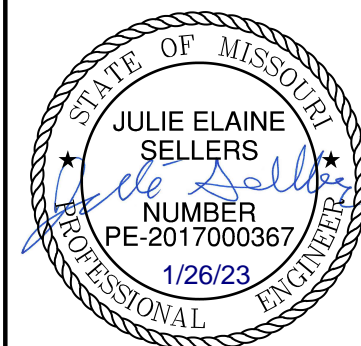
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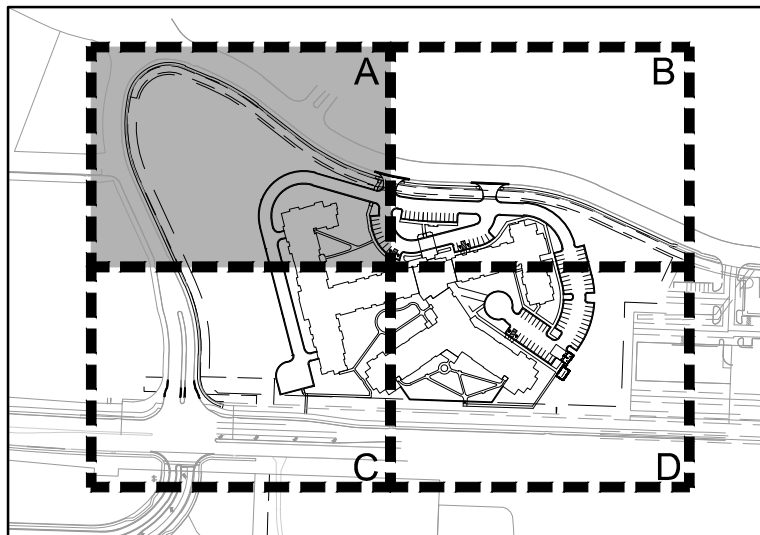
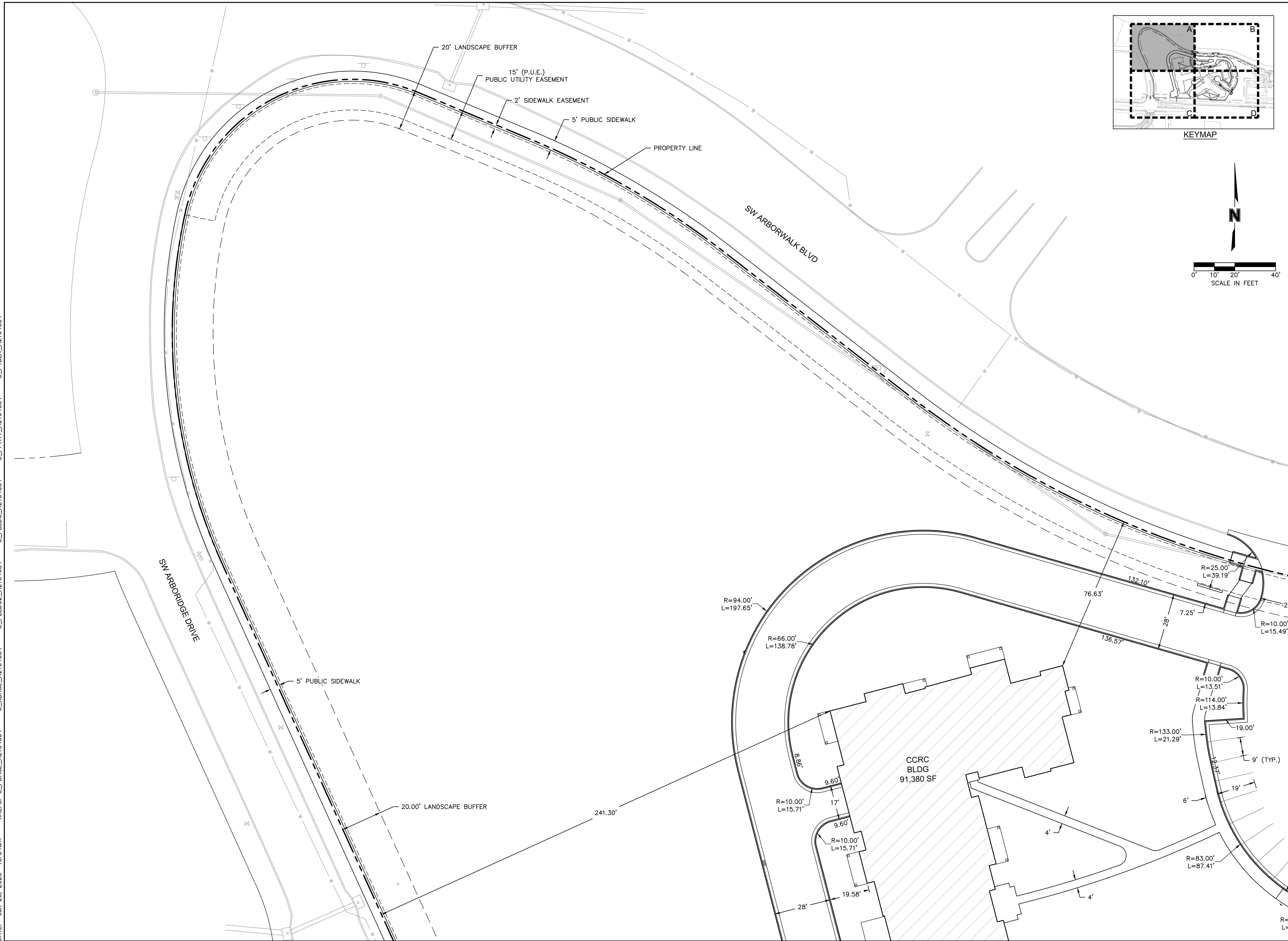
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SELLERS

NUMBER
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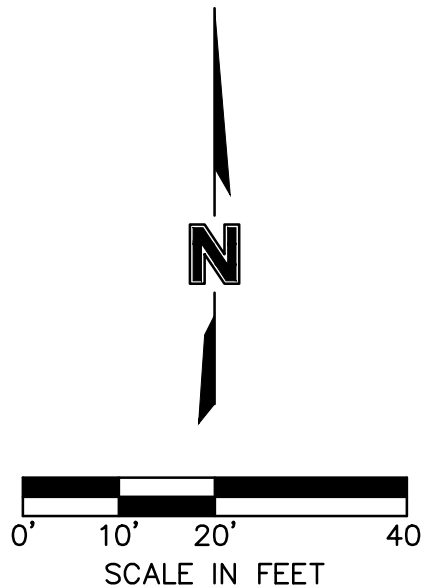
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PROFESSIONAL ENGINEER

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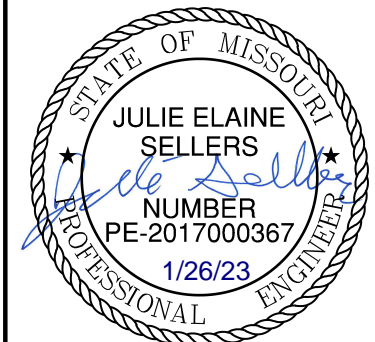


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SCALE IN FEET

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REVISIONS

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DIMENSION PLAN (A)

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

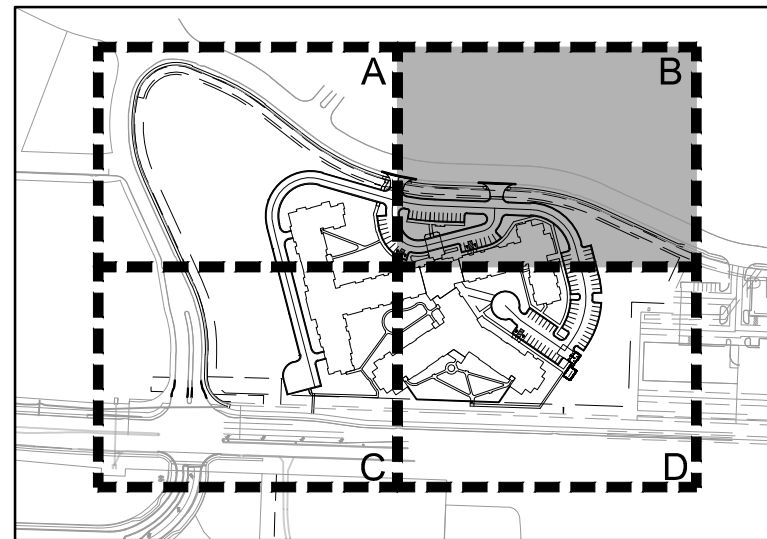
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checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C SIT02 A2104054
date: _____ 08.10.2022

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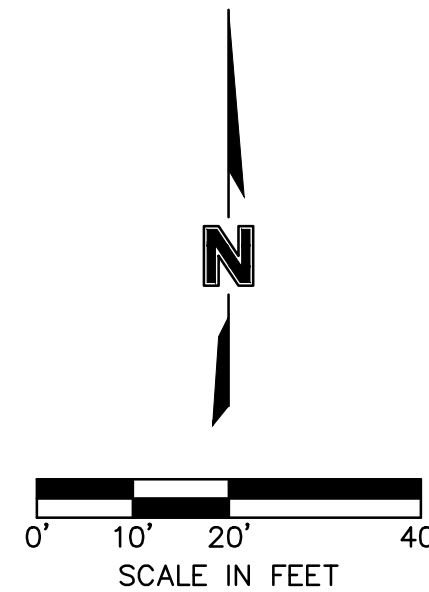
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KEYNOTES ☒

1. SEE TYPICAL ADA PARKING SPACE LAYOUT DETAIL ON SHEET C10.0 AND GRADING DETAILS SHEET C4.5-C4.6 FOR ADA DIMENSION DETAILS



KEYMAP



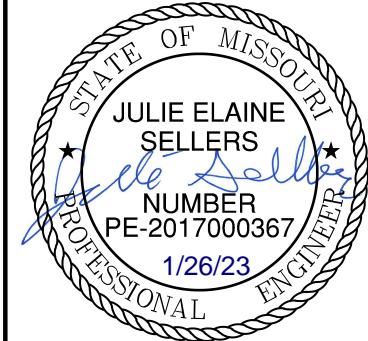
DIMENSION PLAN (B)

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

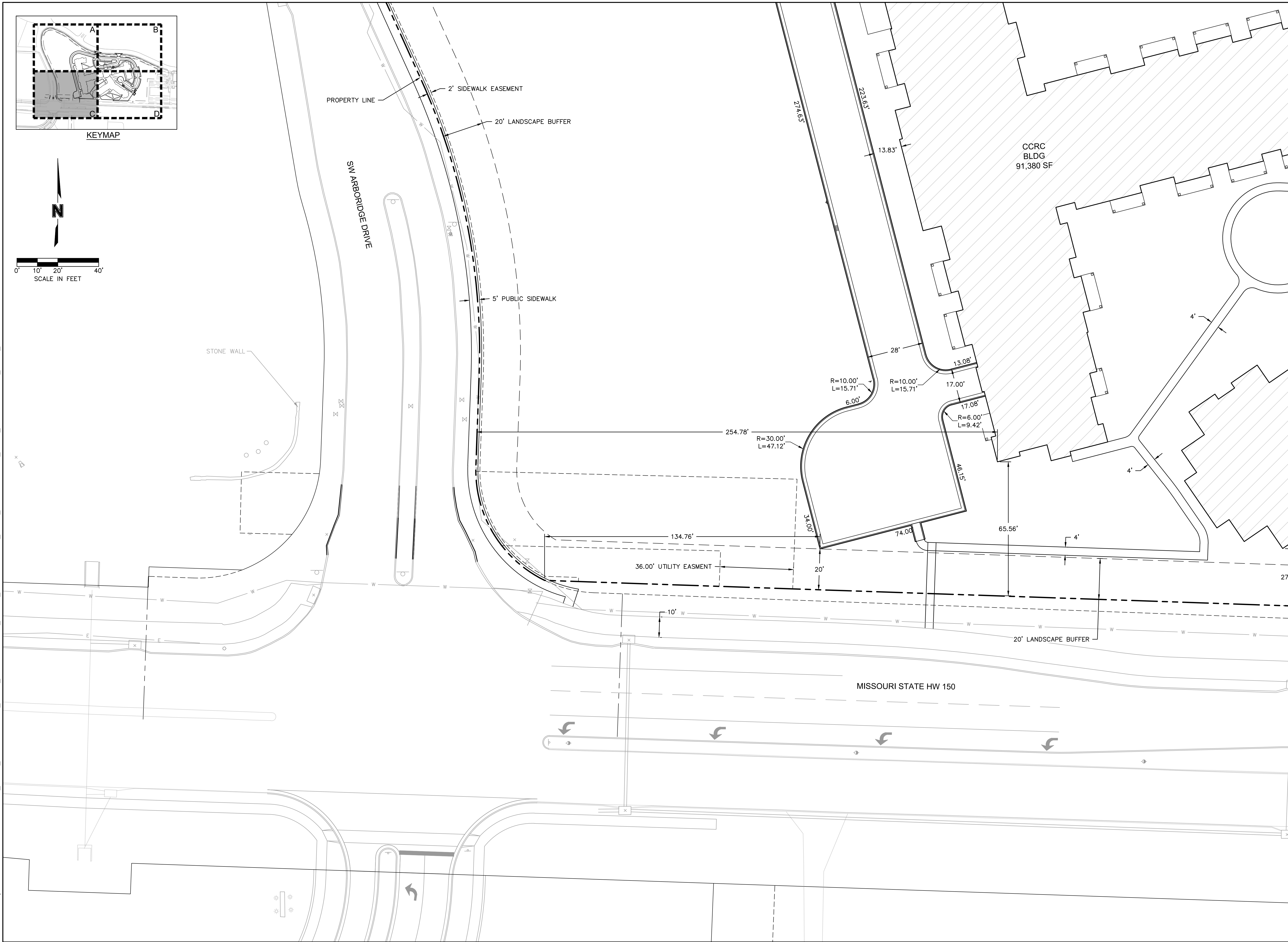
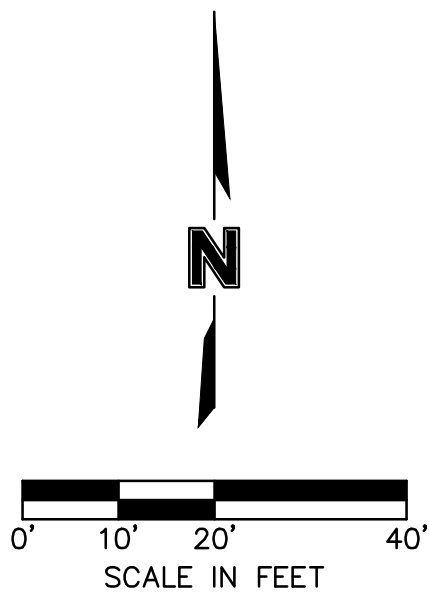
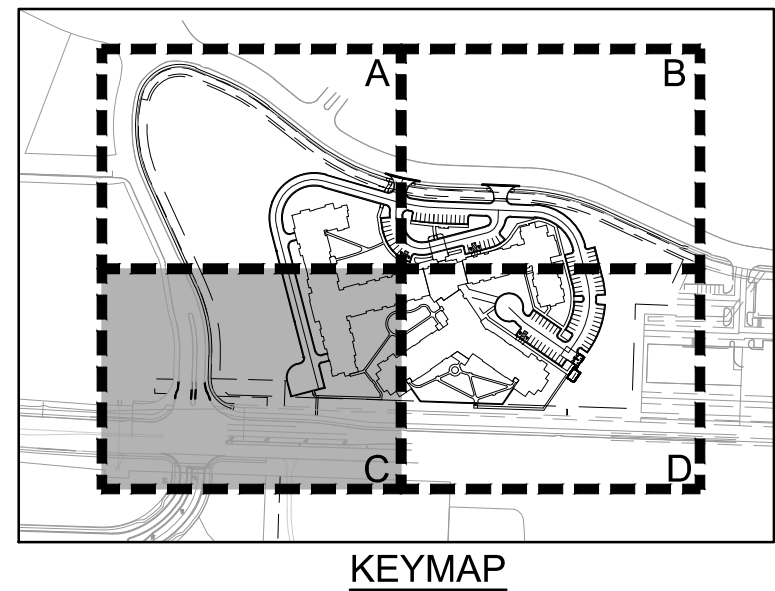
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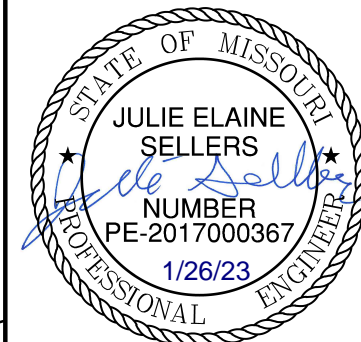
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checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: **C SIT02 A2104054**
date: _____ 08.10.2022

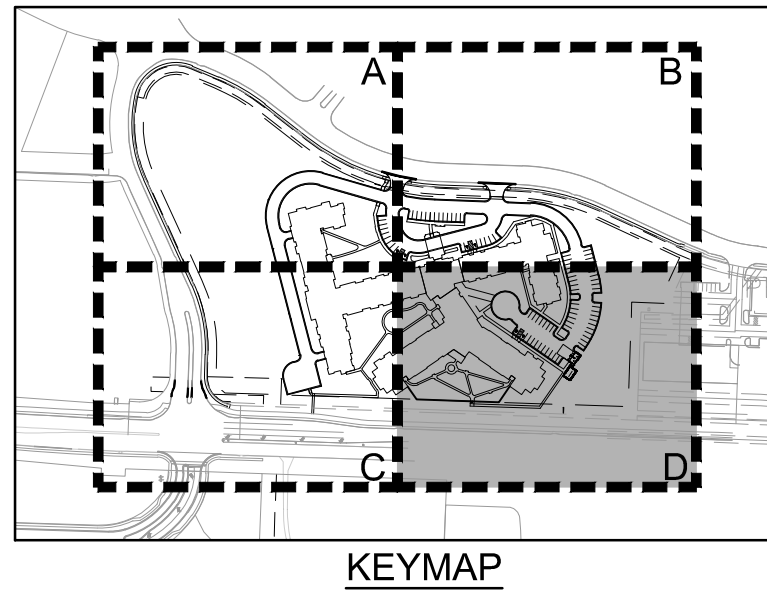
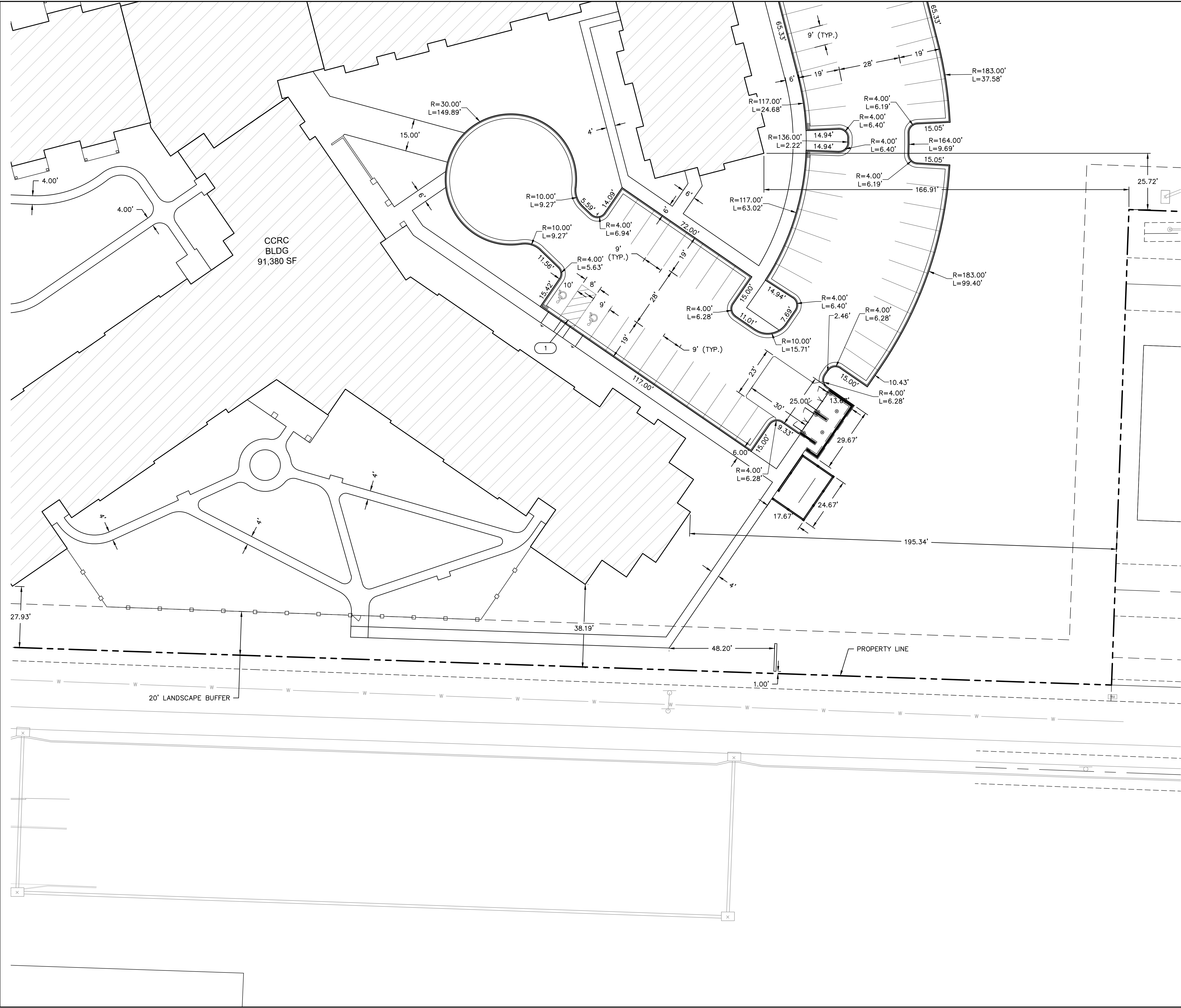
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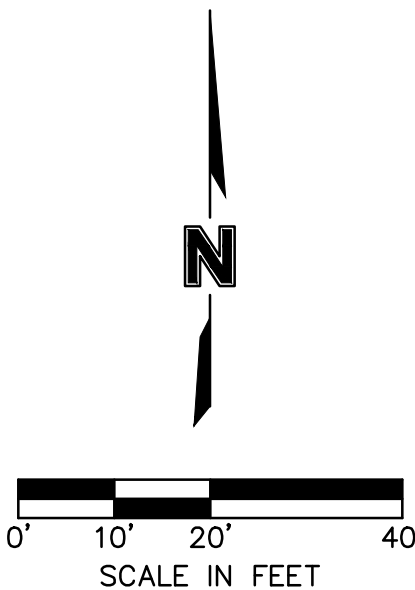
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- KEYNOTES (X)
- SEE TYPICAL ADA PARKING SPACE LAYOUT
DETAIL ON SHEET C10.0 AND GRADING DETAILS
SHEET C4.5-C4.6 FOR ADA DIMENSION DETAILS



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STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE 2017000367
1/26/23
PROFESSIONAL ENGINEER

REV.	NO.	DATE	REVISIONS DESCRIPTION	BY
1	1	10.10.2022	CITY COMMENTS	CSM
2	2	01.20.2023	CITY COMMENTS	

DIMENSION PLAN (D)

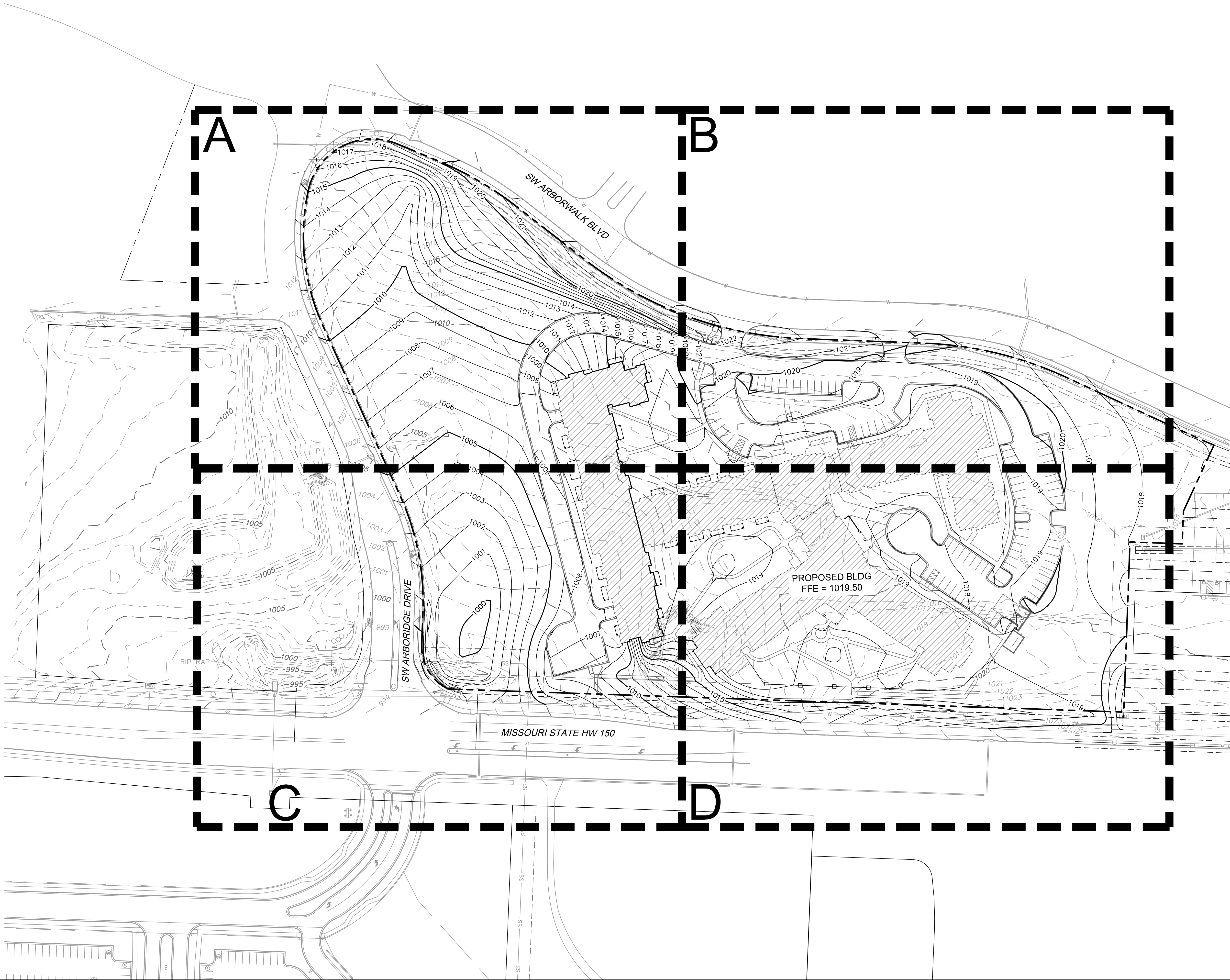
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_SIT02_A2104054
date: 08.10.2022

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GRADING PLAN LEGEND

- 1020 FINISHED GRADE MAJOR CONTOUR
1021 FINISHED GRADE MINOR CONTOUR
1020 EXISTING GRADE MAJOR CONTOUR
1021 EXISTING GRADE MINOR CONTOUR
- - - PROPOSED PROPERTY LINE

GRADING PLAN NOTES

- THE FINISHED GRADE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO SURFACE OF PAVEMENT, FINISHED GRADE EXCLUDING GRADES ADJACENT TO STRUCTURES ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT PAVEMENT DEPTH FROM ELEVATIONS SHOWN.
- THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
- THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE. THE CONTRACTOR SHALL CONTACT THE ENGINEER REGARDING ANY LOCATIONS WHERE THIS MAY NOT BE FEASIBLE.
- SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED. (SEE LEGEND)

EARTHWORK QUANTITIES

CUT (C.Y.)	FILL (C.Y.)	NET (C.Y.)
14,832	36,703	21,871 (FILL)

EARTHWORK QUANTITIES NOTES:

- EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
- EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.

OVERALL GRADING PLAN

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

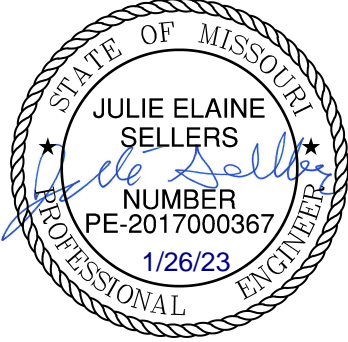
LEE'S SUMMIT, MO

2023

REV. NO. 1 10.10.2022 CITY COMMENTS

REV. NO. 2 01.20.2023 CITY COMMENTS

BY CSM



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North Kansas City, MO 64116
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drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C-GRD01_A2104054
date: 08.10.2022

SHEET
C4.0

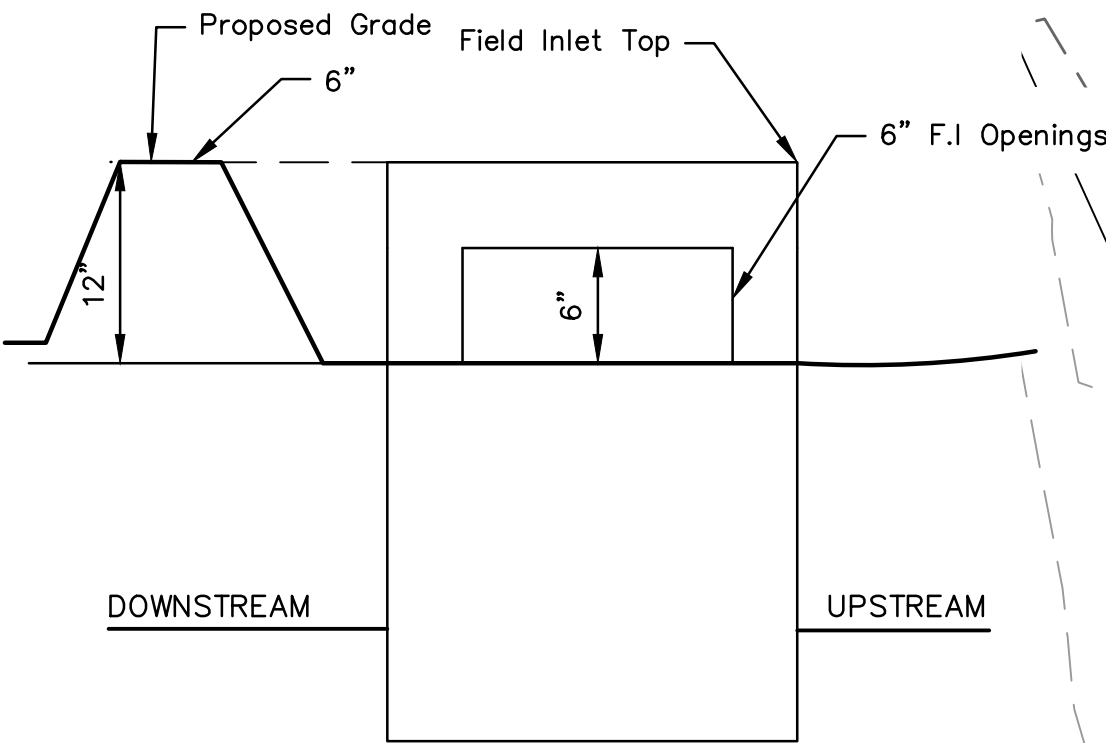
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- LEGEND**
- 1020 — FINISHED GRADE MAJOR CONTOUR
 - 1021 — FINISHED GRADE MINOR CONTOUR
 - - - 1020 - - - EXISTING GRADE MAJOR CONTOUR
 - - - 1021 - - - EXISTING GRADE MINOR CONTOUR
 - - - - - PROPOSED PROPERTY LINE
 - > - > - > - > - PROPOSED FLOWLINE
 - - - - - PROPOSED RIDGE LINE
 - ===== INSTALL STRAIGHT BACK "WET" CURB & GUTTER
 - ===== INSTALL STRAIGHT BACK "DRY" CURB & GUTTER
 - ===== TRANSITION BETWEEN "WET" AND "DRY" CURB & GUTTER
 - ===== INSTALL RIBBON CURB
 - ===== TURF REINFORCEMENT MAT

SPOT ELEVATION LEGEND:

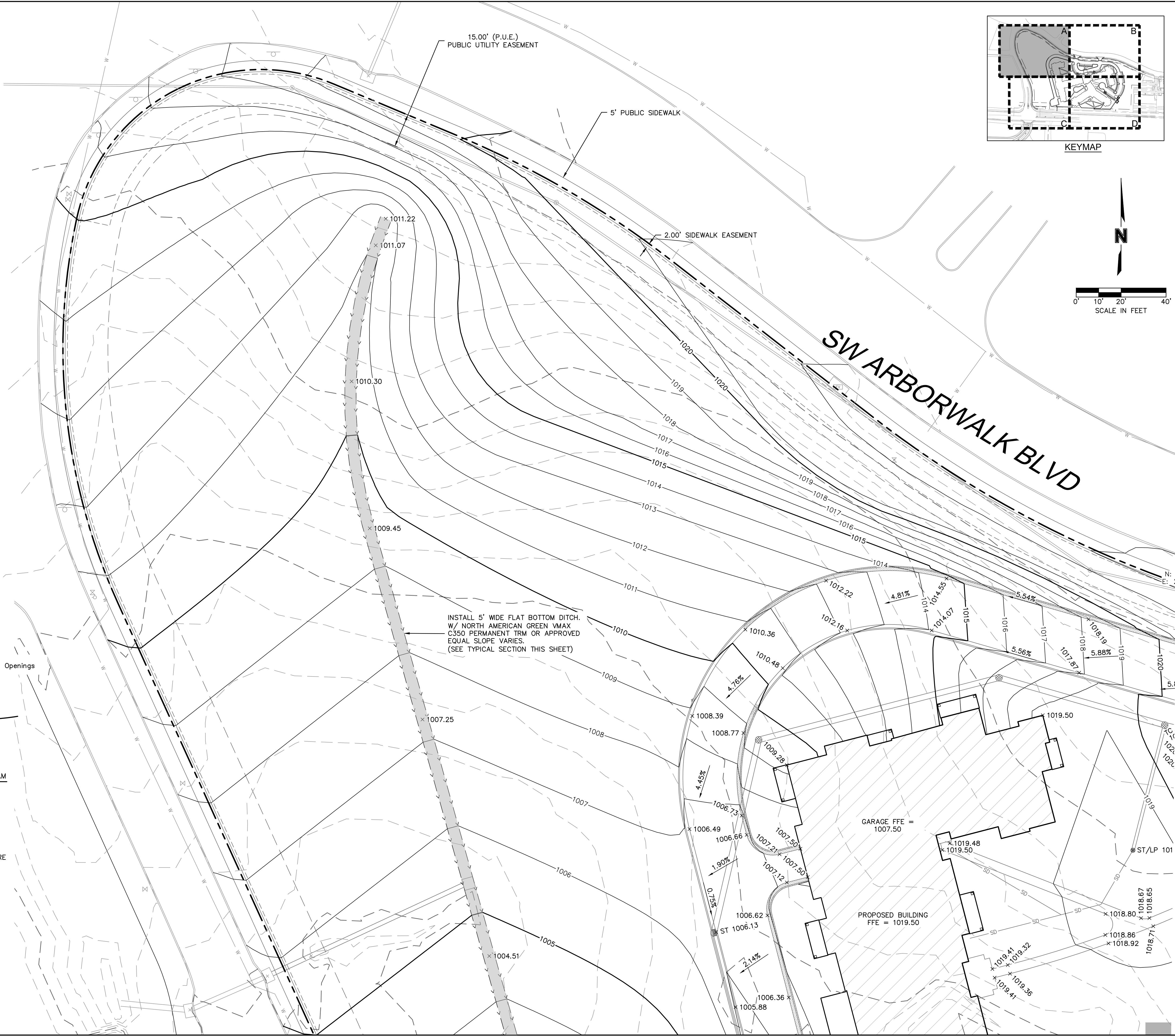
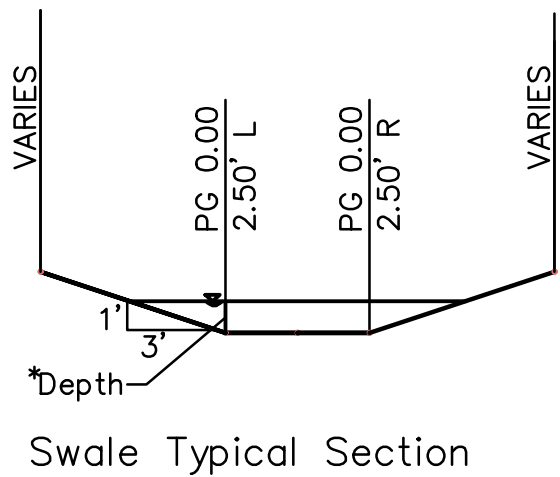
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FFE FINISHED FLOOR ELEVATION
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB AT BACK
TS TOP OF STRUCTURE
ME MATCH EXISTING
PV PAVEMENT

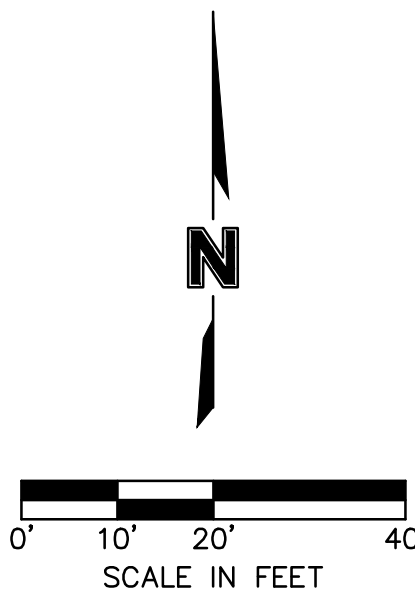
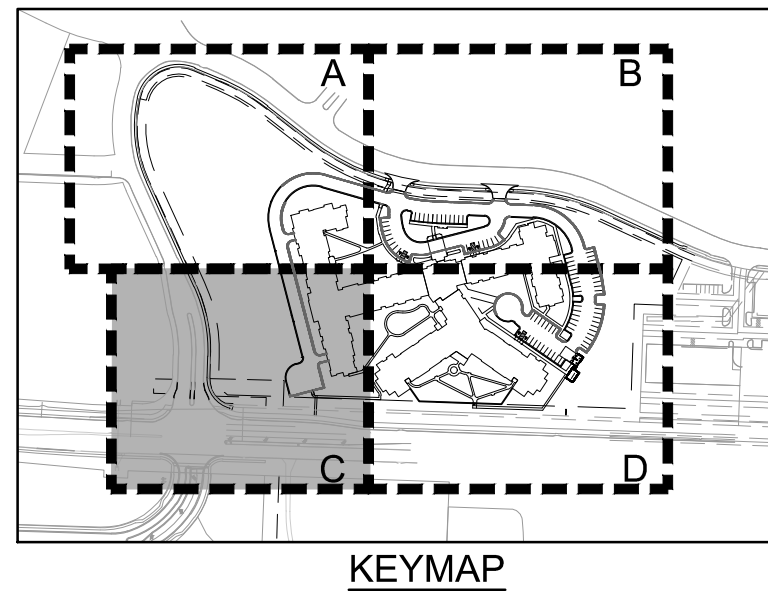


F.I. SUMP DETAIL
NOT TO SCALE

NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE FIELD INLETS ARE LOCATED WITHIN SWALES.



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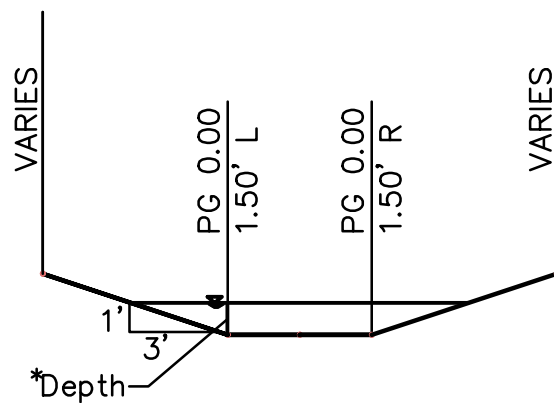
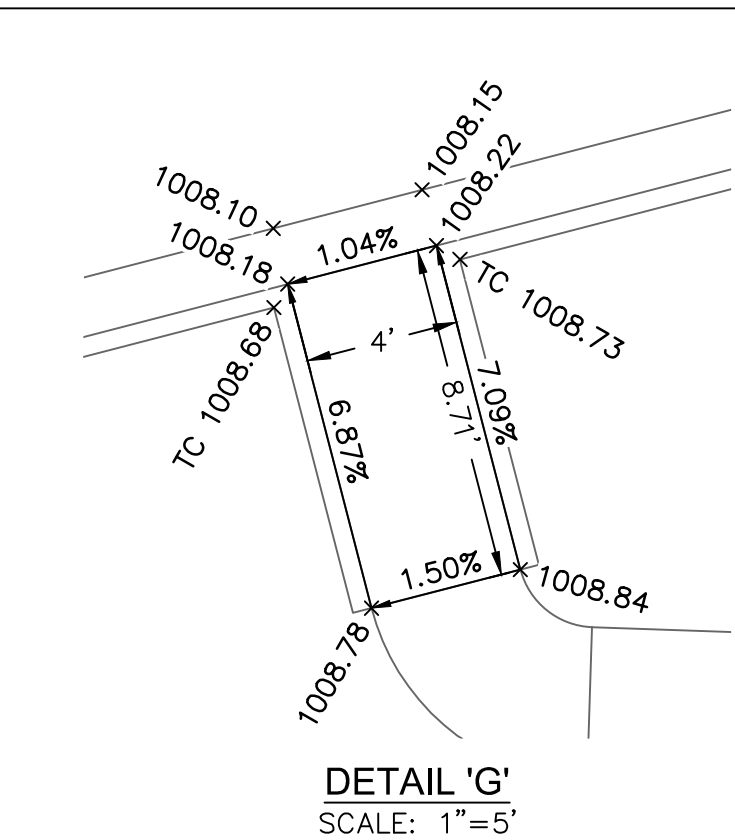
LEGEND

- | | |
|--|--|
| | FINISHED GRADE MAJOR CONTOUR |
| | FINISHED GRADE MINOR CONTOUR |
| | EXISTING GRADE MAJOR CONTOUR |
| | EXISTING GRADE MINOR CONTOUR |
| | PROPOSED PROPERTY LINE |
| | PROPOSED FLOWLINE |
| | PROPOSED RIDGE LINE |
| | INSTALL STRAIGHT BACK "WET" CURB & GUTTER |
| | INSTALL STRAIGHT BACK "DRY" CURB & GUTTER |
| | TRANSITION BETWEEN "WET" AND "DRY" CURB & GUTTER |
| | INSTALL RIBBON CURB |
| | TURF REINFORCEMENT MAT |

SPOT ELEVATION LEGEND:

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- | | |
|-----|--------------------------|
| FFE | FINISHED FLOOR ELEVATION |
| HP | HIGH POINT |
| LP | LOW POINT |
| TC | TOP OF CURB AT BACK |
| TS | TOP OF STRUCTURE |
| ME | MATCH EXISTING |
| PV | PAVEMENT |



Swale Typical Section

SPOT ELEVATIONS (C)

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT. MO.

2023

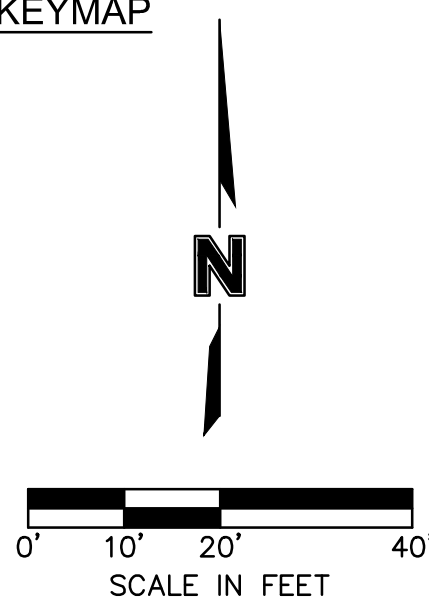
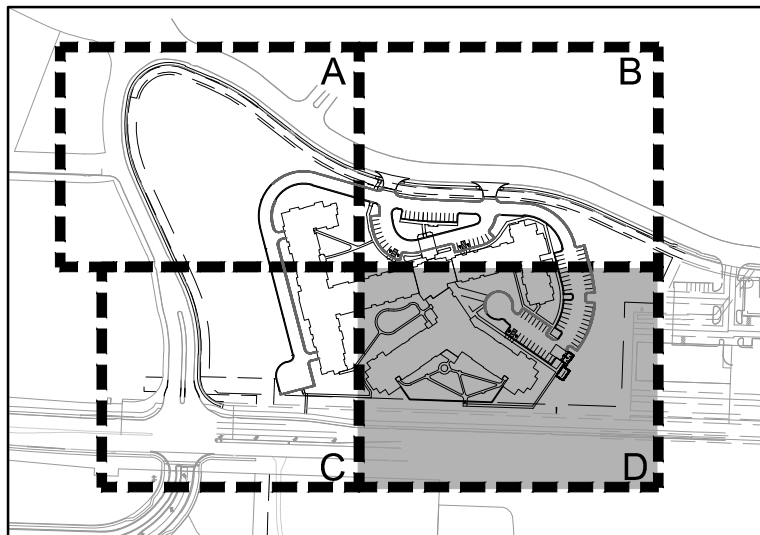
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- LEGEND**
- 1020 FINISHED GRADE MAJOR CONTOUR
 - 1021 FINISHED GRADE MINOR CONTOUR
 - 1020 EXISTING GRADE MAJOR CONTOUR
 - 1021 EXISTING GRADE MINOR CONTOUR
 - PROPOSED PROPERTY LINE
 - PROPOSED FLOWLINE
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 - INSTALL STRAIGHT BACK "WET" CURB & GUTTER
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SPOT ELEVATION LEGEND:

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FFE FINISHED FLOOR ELEVATION
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB AT BACK
TS TOP OF STRUCTURE
ME MATCH EXISTING
PV PAVEMENT

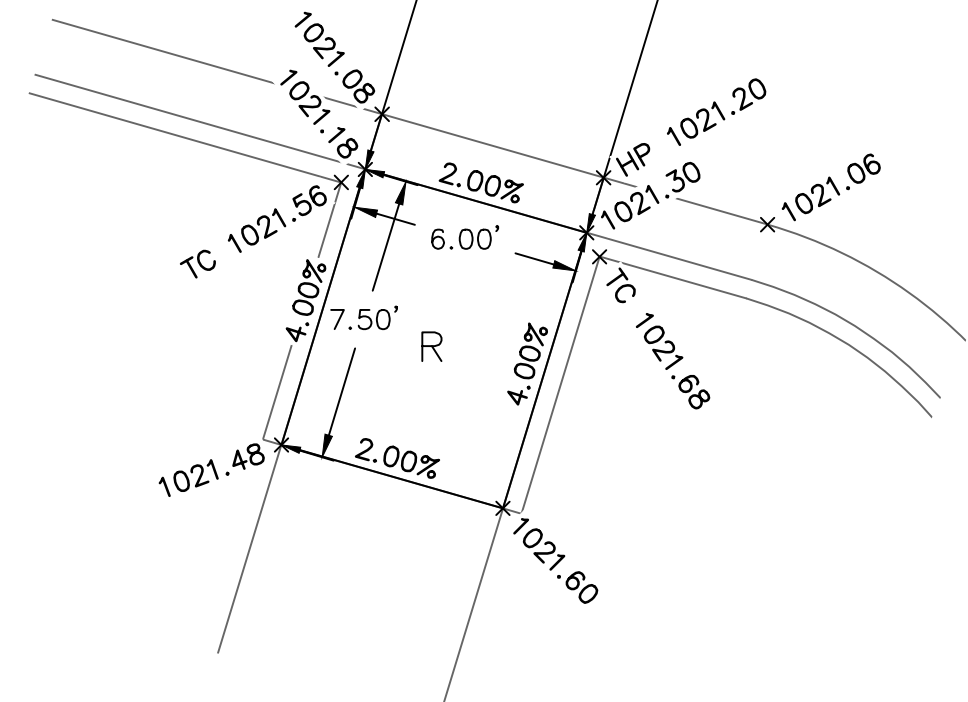
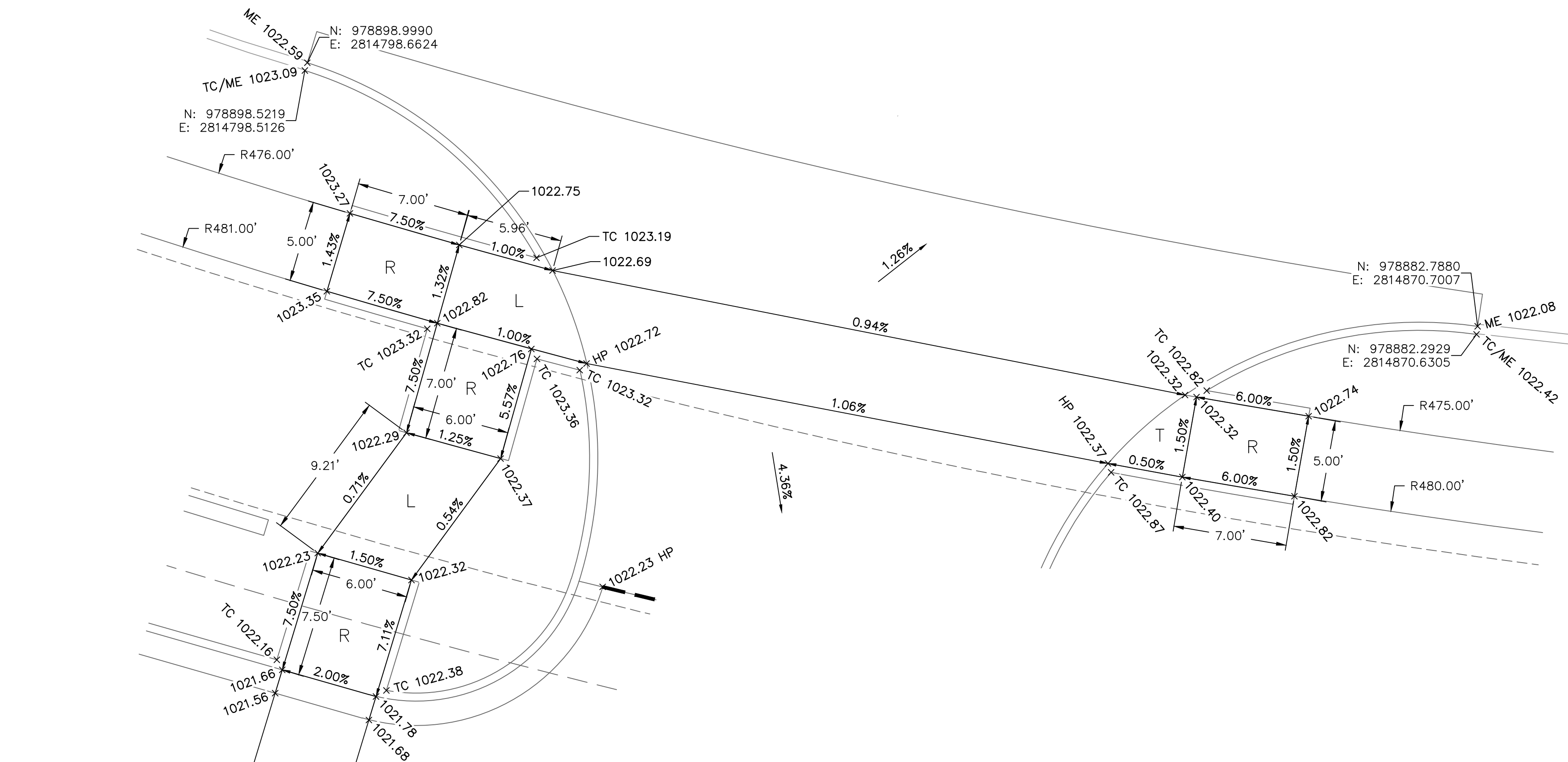
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TEL 816.361.1177
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BY		REVISIONS DESCRIPTION		DATE		REV. NO.		SPOT ELEVATIONS (D)		RAINTREE VILLAGE FINAL DEVELOPMENT PLAN		LEE'S SUMMIT, MO	
CSM		CSM											
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		2	01.20.2023	CITY COMMENTS									
										2023			

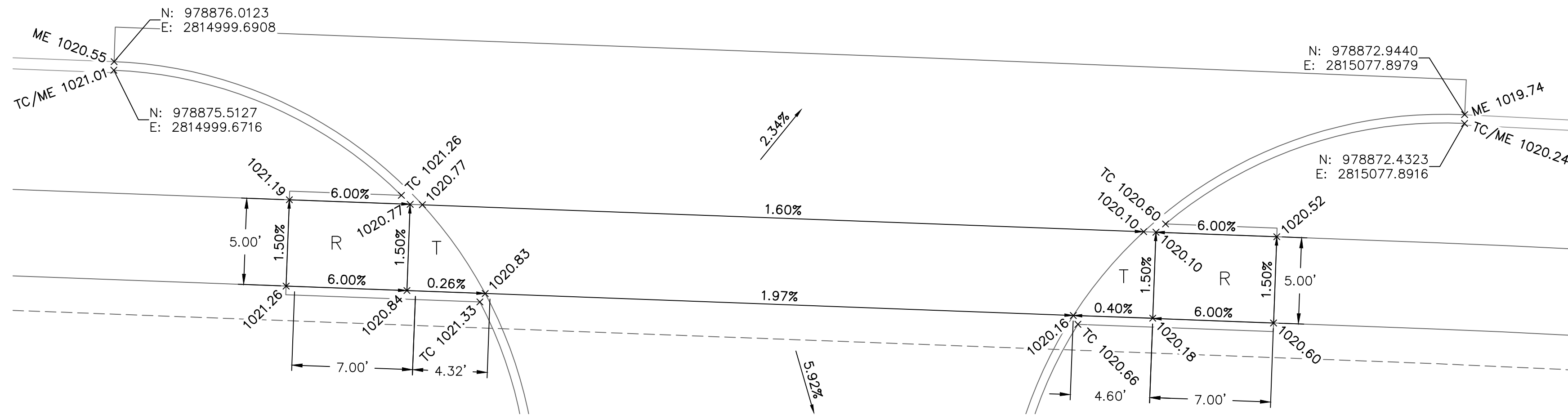
drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_GRD02_A2104054
date: 08.10.2022

**SHEET
C4.4**

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C:\PTBLK_A2104054



DETAIL 'A'
SCALE: 1"=5'



DETAIL 'B'
SCALE: 1"=5'



SPOT ELEVATION LEGEND:

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FFE FINISHED FLOOR ELEVATION
HP HIGH POINT
LP LOW POINT
TC TOP OF CURB AT BACK
TS TOP OF STRUCTURE
ME MATCH EXISTING
PV PAVEMENT

SIDEWALK RAMP LEGEND:

T TRANSITION
L LANDING
R RAMP

GRADING DETAILS

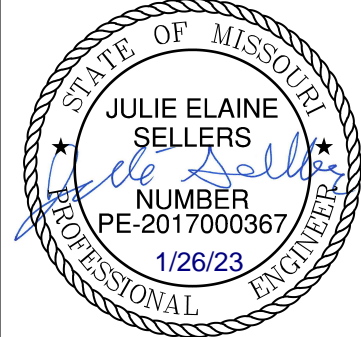
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

2023

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_GRD02_A2104054
date: 08.10.2022

SHEET
C4.5



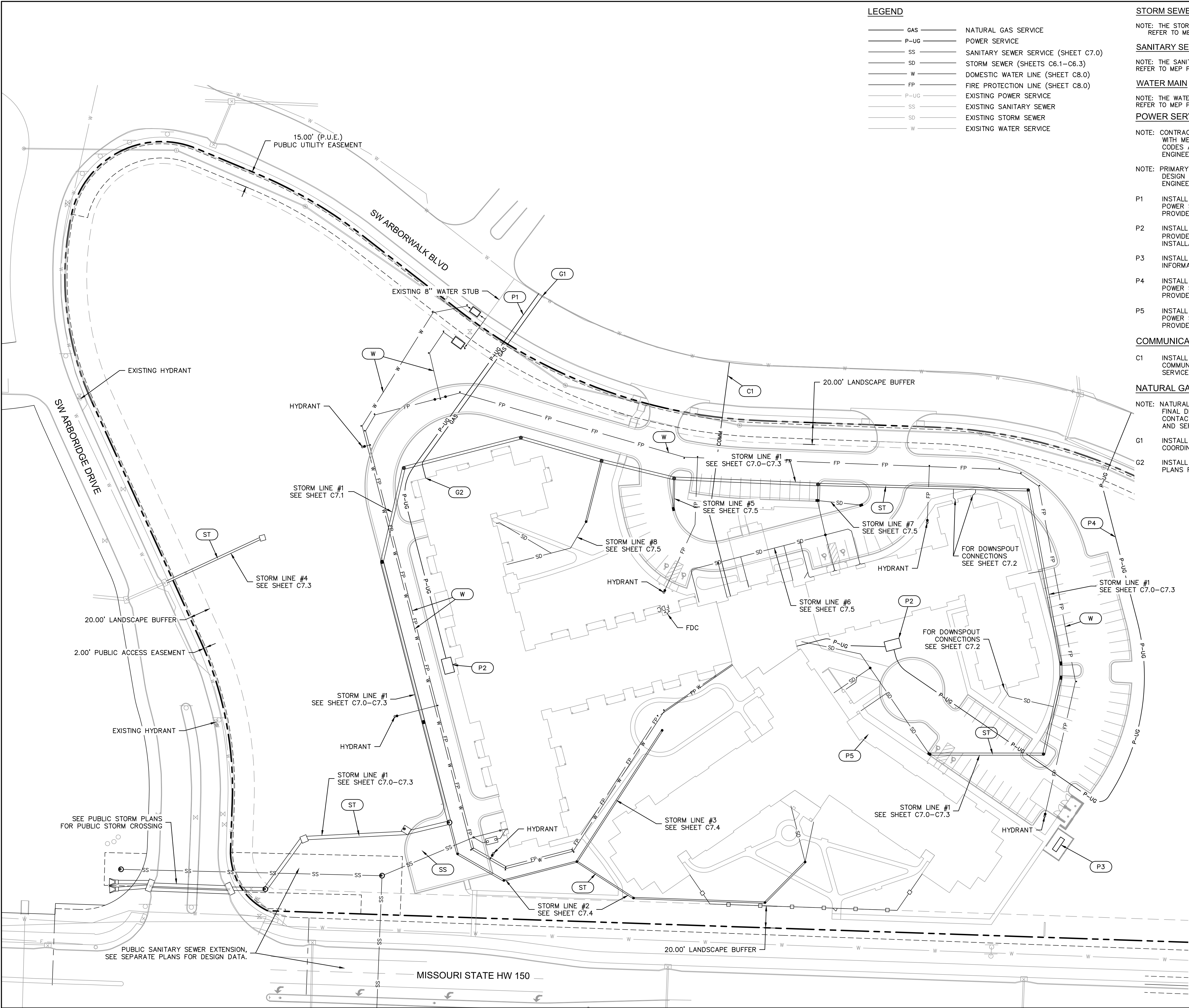
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1	10.10.2022	CITY COMMENTS	CSM
2	01.20.2023	CITY COMMENTS	

REVISIONS

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LEGEND

— GAS —	NATURAL GAS SERVICE
— P-UG —	POWER SERVICE
— SS —	SANITARY SEWER SERVICE (SHEET C7.0)
— SD —	STORM SEWER (SHEETS C6.1-C6.3)
— W —	DOMESTIC WATER LINE (SHEET C8.0)
— FP —	FIRE PROTECTION LINE (SHEET C8.0)
— P-UG —	EXISTING POWER SERVICE
— SS —	EXISTING SANITARY SEWER
— SD —	EXISTING STORM SEWER
— W —	EXISTING WATER SERVICE

STORM SEWER (ST)

NOTE: THE STORM SEWER DESIGN IS DETAILED ON SHEETS C7.0 TO C7.6.
REFER TO MEP PLANS FOR CONTINUATION THROUGH BUILDING

SANITARY SEWER (SS)

NOTE: THE SANITARY SEWER DESIGN IS DETAILED ON SHEET C8.0.
REFER TO MEP PLANS FOR CONTINUATION INTO BUILDING.

WATER MAIN (W)

NOTE: THE WATER MAIN DESIGN IS DETAILED ON SHEET C9.0 TO C9.5
REFER TO MEP PLANS FOR CONTINUATION INTO BUILDING.

POWER SERVICE (P)

NOTE: CONTRACTOR SHALL COORDINATE ALL POWER INSTALLATIONS
WITH MEP PLANS AND SHALL CONFORM WITH ALL LOCAL
CODES AND ORDINANCES. CONTRACTOR SHALL CONTACT
ENGINEER WITH ANY CONFLICT PRIOR TO INSTALLATION.

NOTE: PRIMARY CONDUIT ROUTING SHOWN IS PROPOSED ONLY. FINAL
DESIGN BY SERVICE PROVIDER. CONTRACTOR SHALL CONTACT
ENGINEER WITH ANY CONFLICTS.

- P1 INSTALL 379 LF OF 2" CONDUIT WITH PULL WIRE FOR PRIMARY
POWER SERVICE. COORDINATE INSTALLATION WITH SERVICE
PROVIDER.
- P2 INSTALL TRANSFORMER PAD AND RISERS PER SERVICE
PROVIDER'S STANDARDS AND SPECIFICATIONS. COORDINATE
INSTALLATION OF TRANSFORMER WITH UTILITY.
- P3 INSTALL GENERATOR, SEE MEP PLANS FOR ADDITIONAL
INFORMATION
- P4 INSTALL 613 LF OF 2" CONDUIT WITH PULL WIRE FOR PRIMARY
POWER SERVICE. COORDINATE INSTALLATION WITH SERVICE
PROVIDER.
- P5 INSTALL 305 LF OF 2" CONDUIT WITH PULL WIRE FOR PRIMARY
POWER SERVICE. COORDINATE INSTALLATION WITH SERVICE
PROVIDER.

COMMUNICATIONS (C)

C1 INSTALL 217 LF OF TWO (2) X" CONDUITS WITH PULL WIRE FOR
COMMUNICATION SERVICE. COORDINATE INSTALLATION WITH
SERVICE PROVIDER

NATURAL GAS SERVICE (G)

NOTE: NATURAL GAS SERVICE ROUTING SHOWN IS PROPOSED ONLY.
FINAL DESIGN BY SERVICE PROVIDER. CONTRACTOR SHALL
CONTACT ENGINEER WITH ANY CONFLICTS. METER LOCATION
AND SERVICE SIZING PER MEP PLAN AND SERVICE PROVIDER.

- G1 INSTALL 202 LF OF PIPE FOR NATURAL GAS SERVICE.
COORDINATE SIZE AND MATERIAL WITH SERVICE PROVIDER.
- G2 INSTALL GAS METER AND CONNECT TO BUILDING. SEE MEP
PLANS FOR CONTINUATION.

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STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
1/26/23
PROFESSIONAL ENGINEER

REV.	NO.	DATE	REVISIONS DESCRIPTION
1	10.10.2022	1	CITY COMMENTS
2	01.20.2023	2	CITY COMMENTS

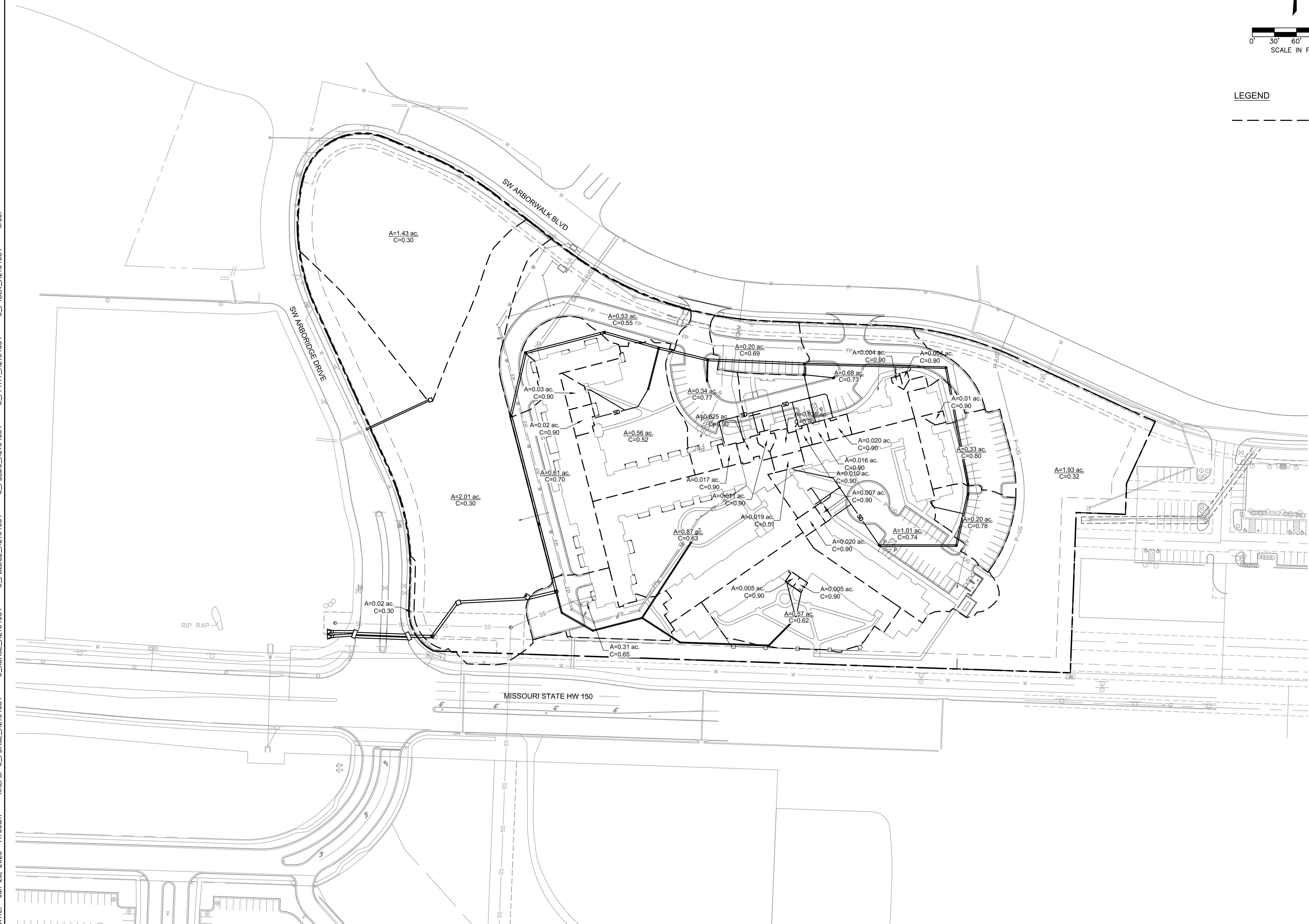
OVERALL UTILITY PLAN
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN
LEE'S SUMMIT, MO

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_UTL01_A2104054
date: 08.10.2022

SHEET
C5.0

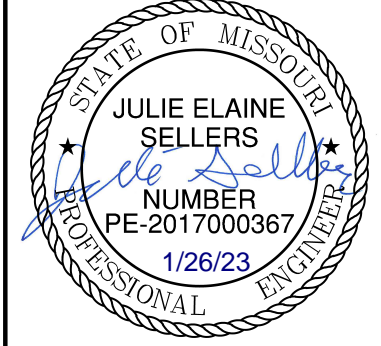
REVISIONS

2023



LEGEND

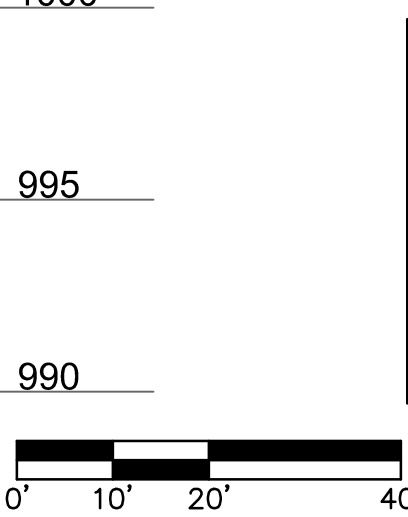
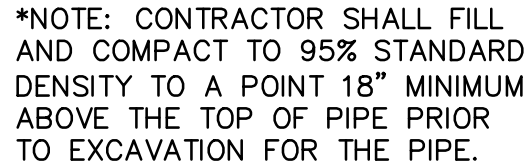
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STORMWATER MANAGEMENT PLAN	
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN	
LEE'S SUMMIT, MO	2023

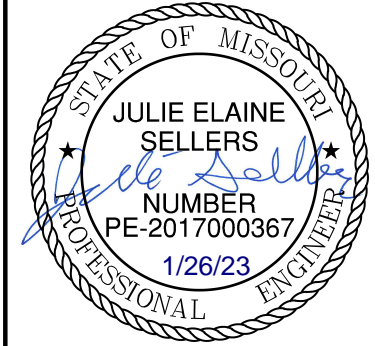
drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C STM01 A2104054
date: _____ 08.10.2022

SHEET C6.0



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1	10.10.2022	CITY COMMENTS	CSM
2	01.20.2023	CITY COMMENTS	

REVISIONS

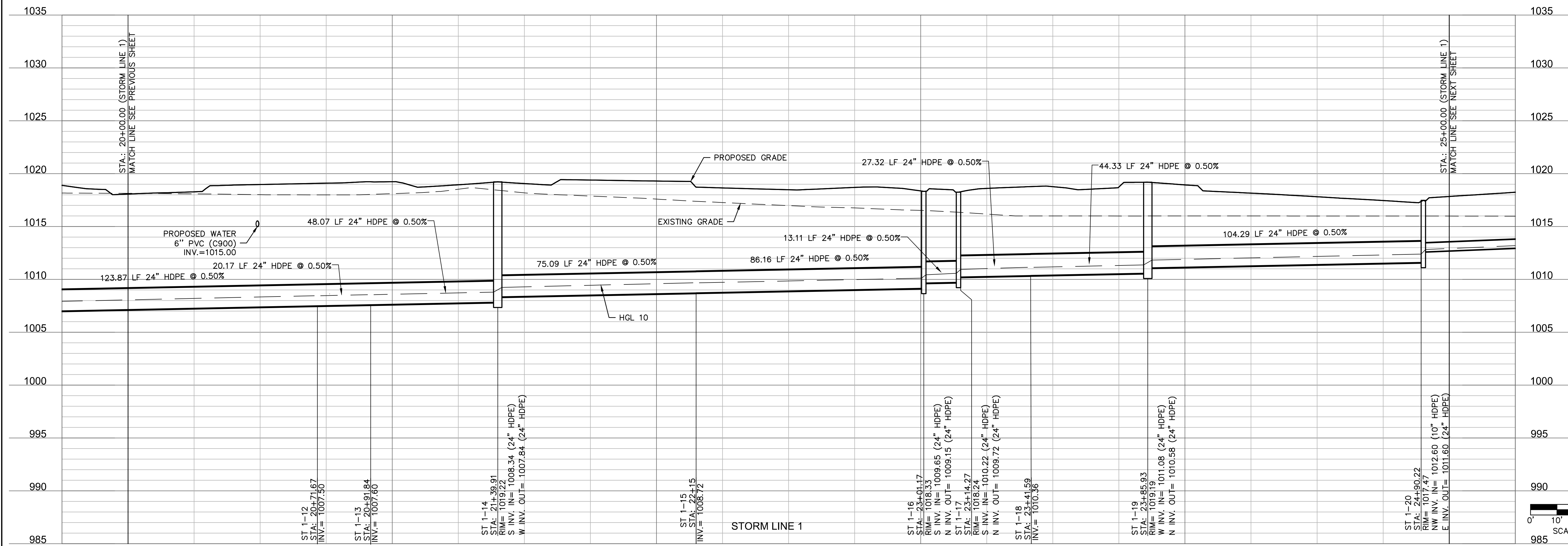
STORM PLAN & PROFILE

RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

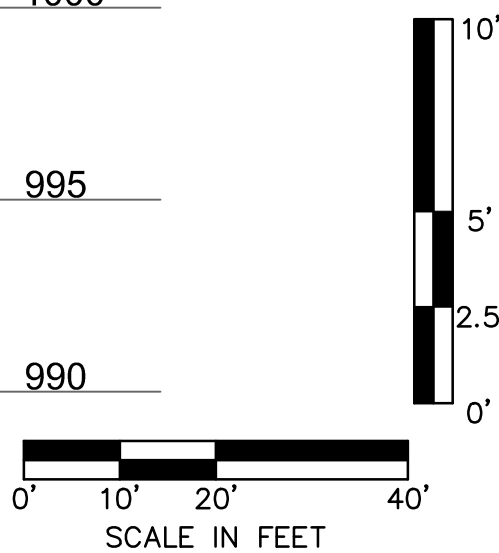
LEE'S SUMMIT, MO

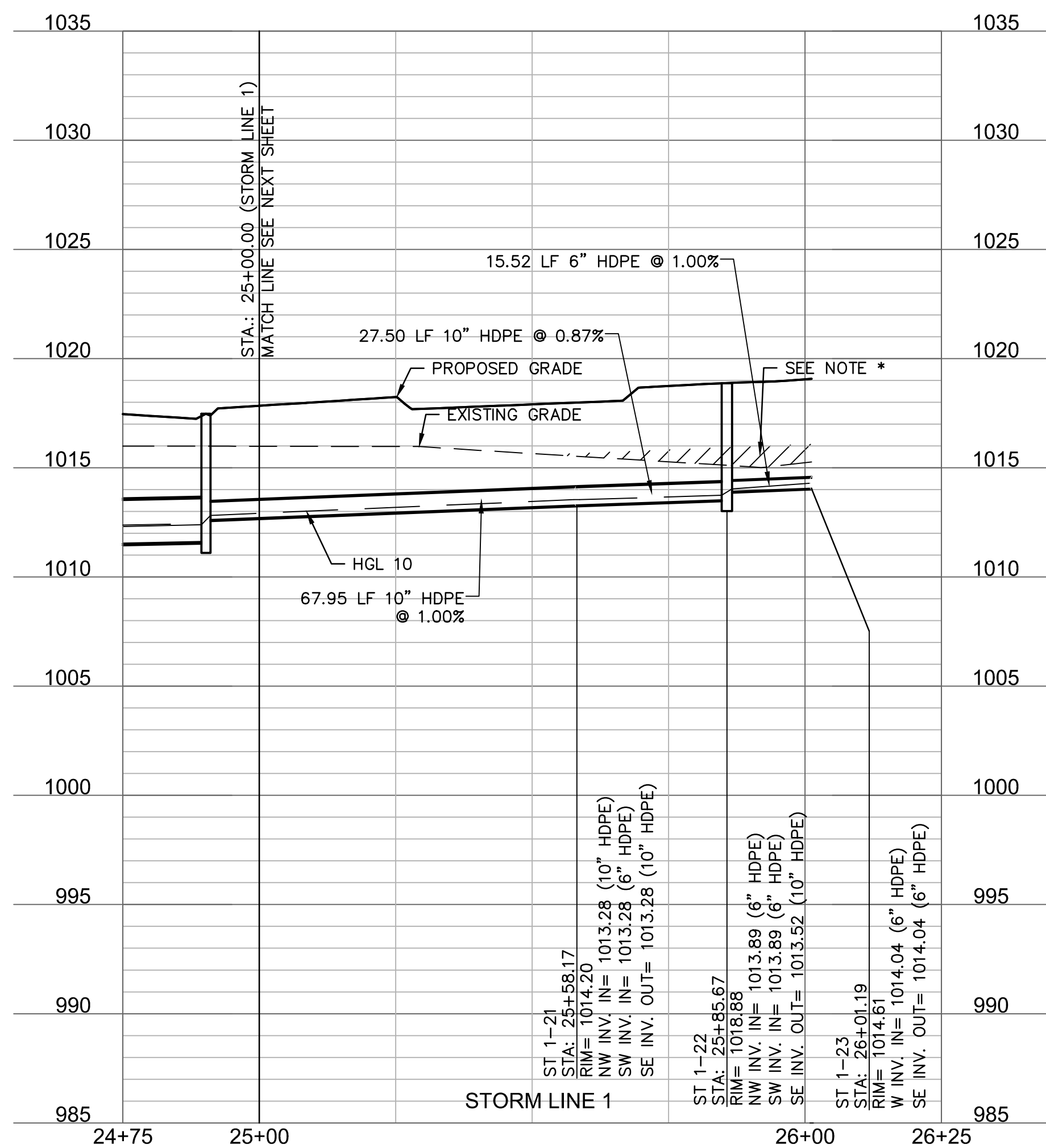
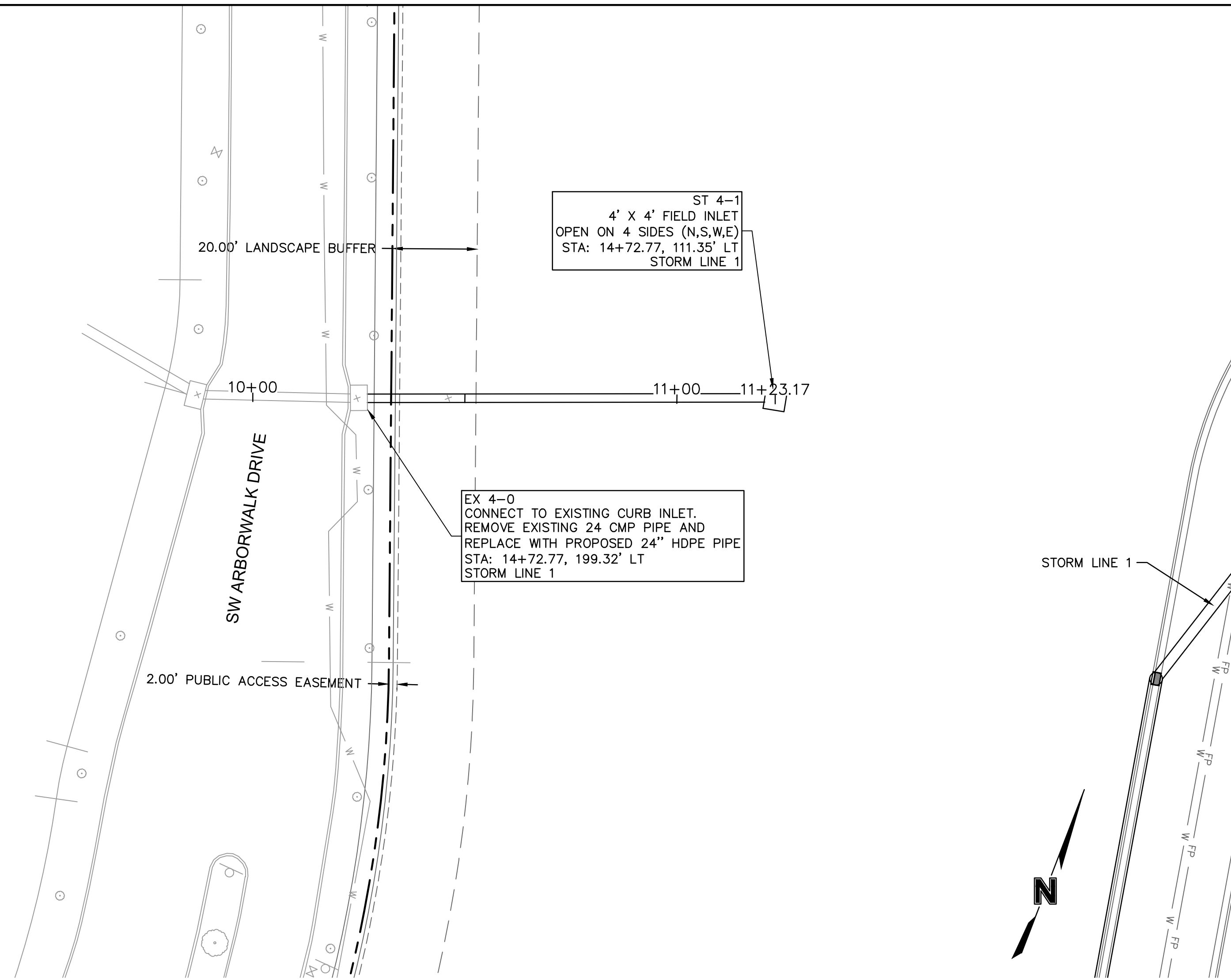
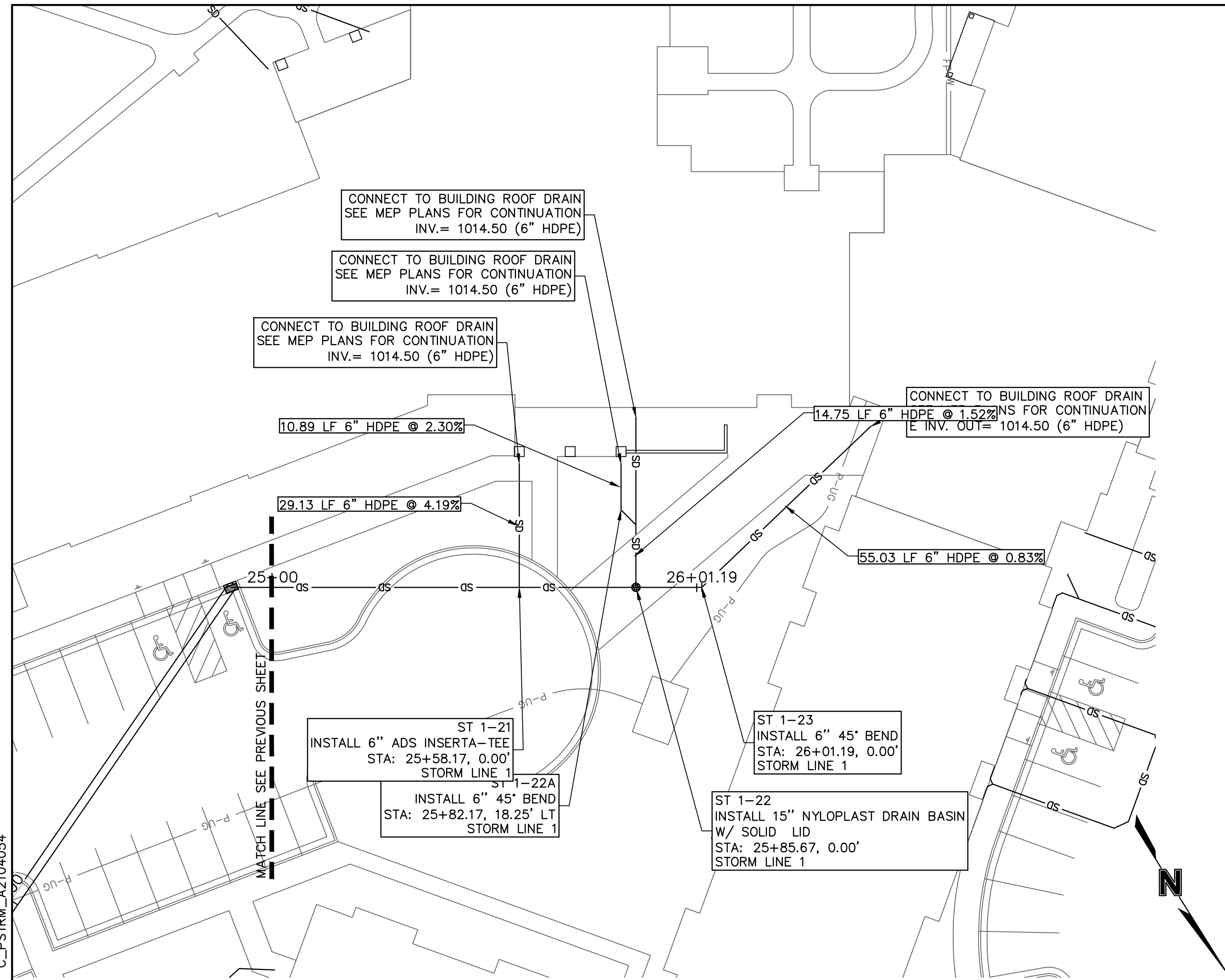
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SHEET
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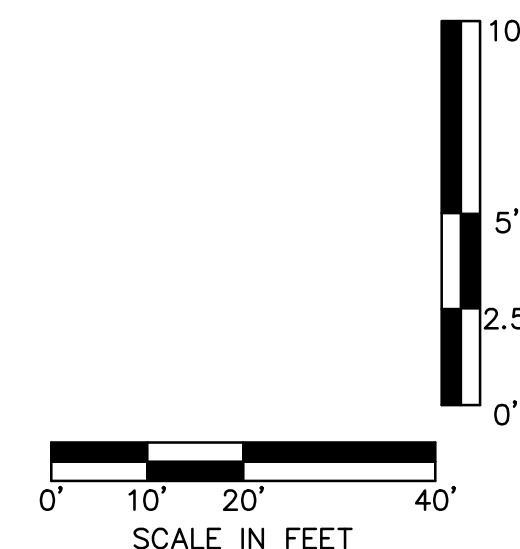
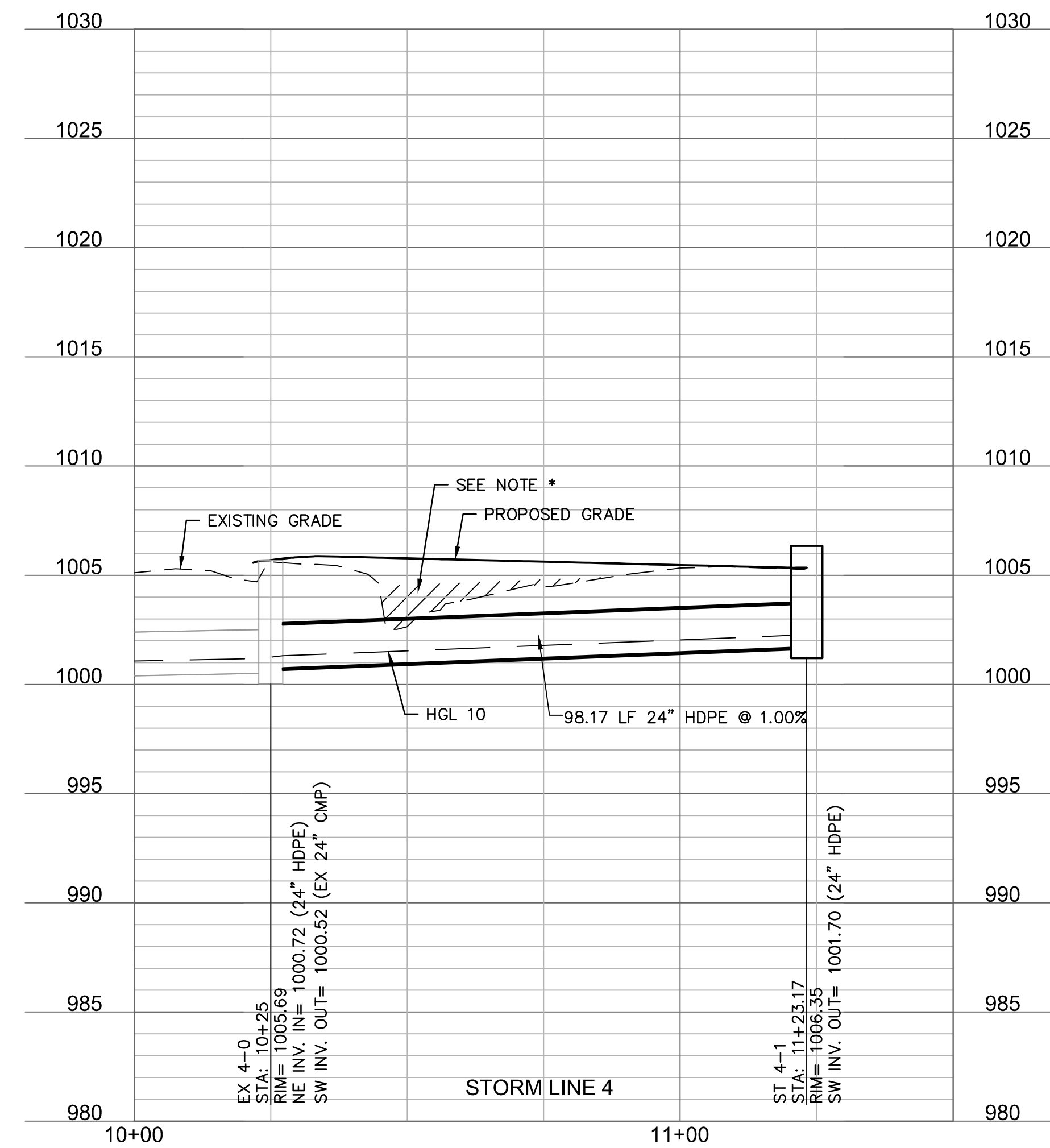


*NOTE: CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

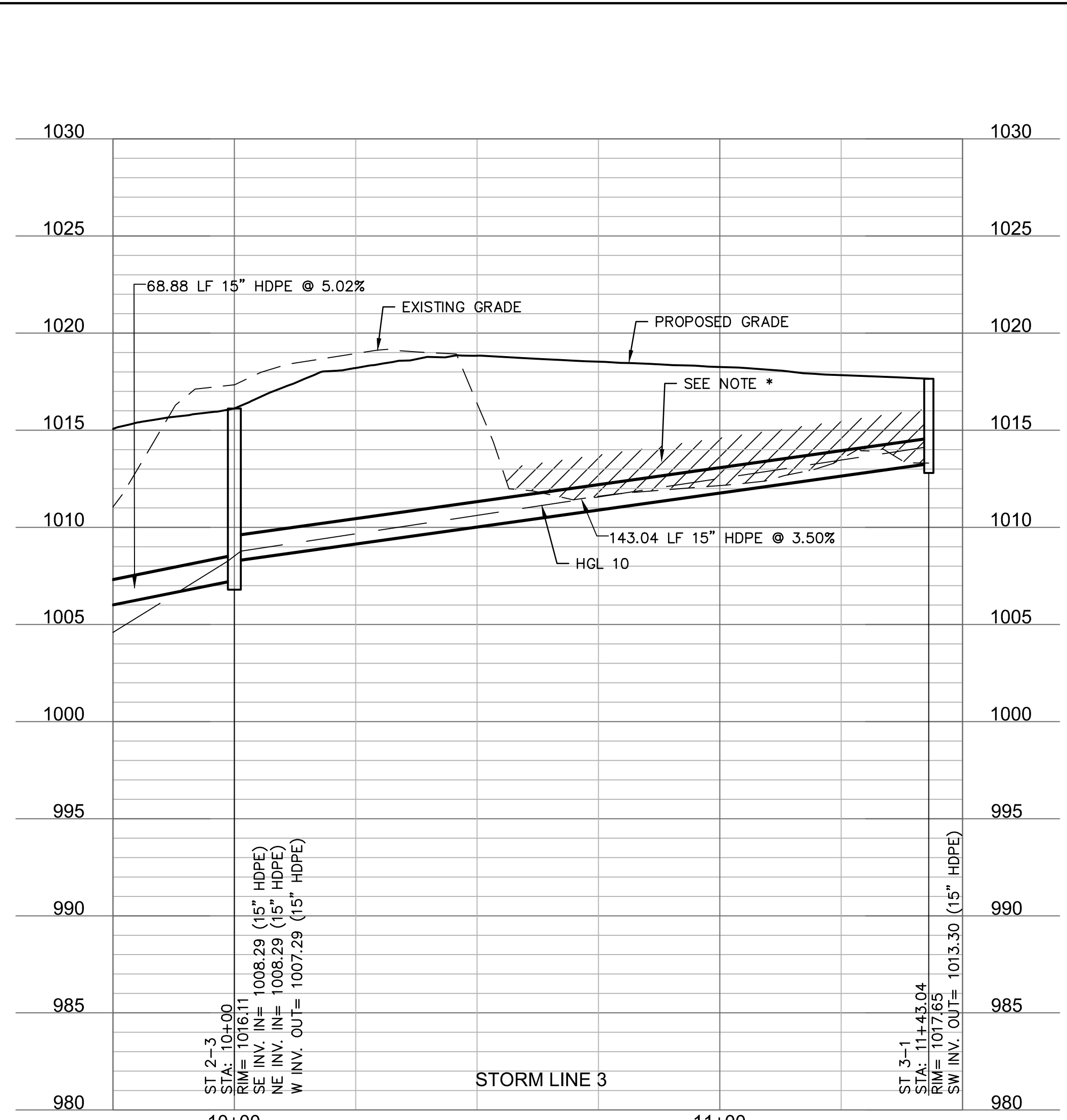
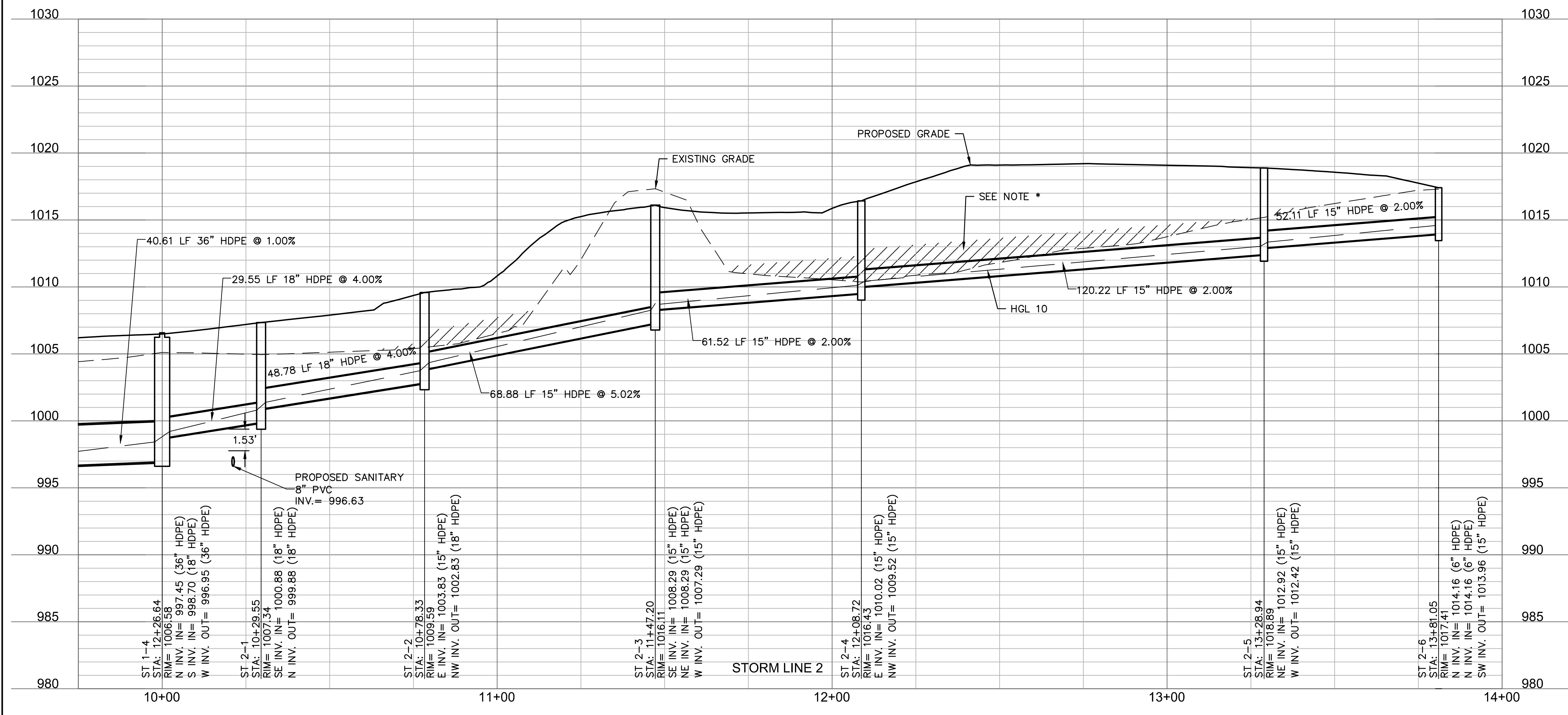
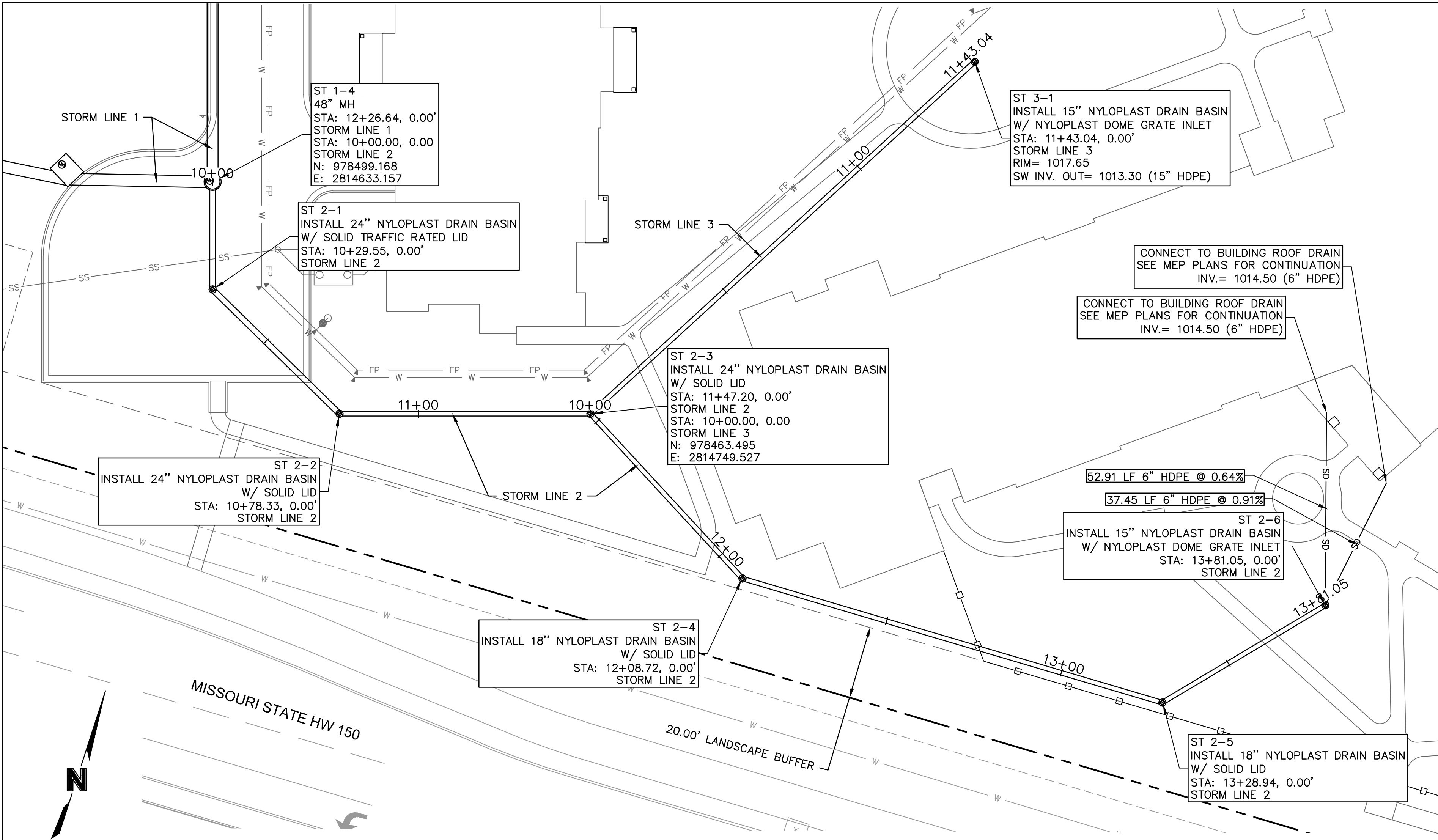




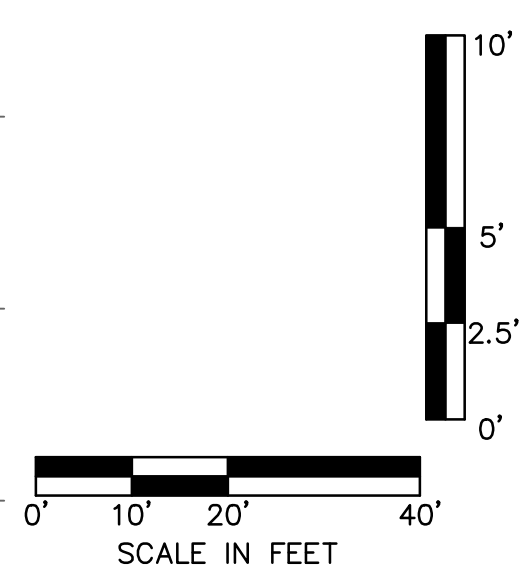
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TEL 816.361.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE
SELLERS
Professional Engineer
NUMBER
PE 2017000367
1/26/23

BY
CSM

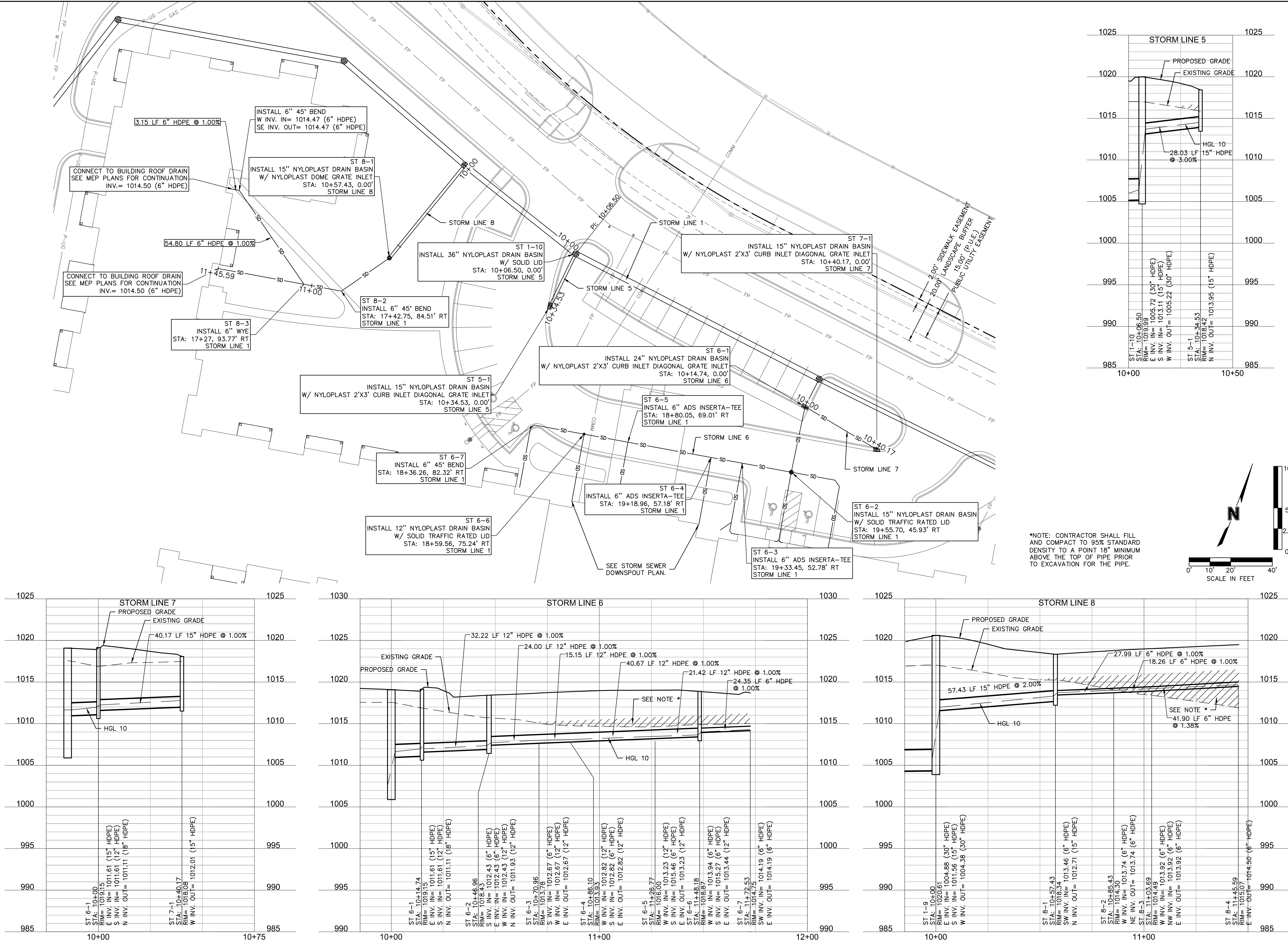
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2 01.20.2023 CITY COMMENTS

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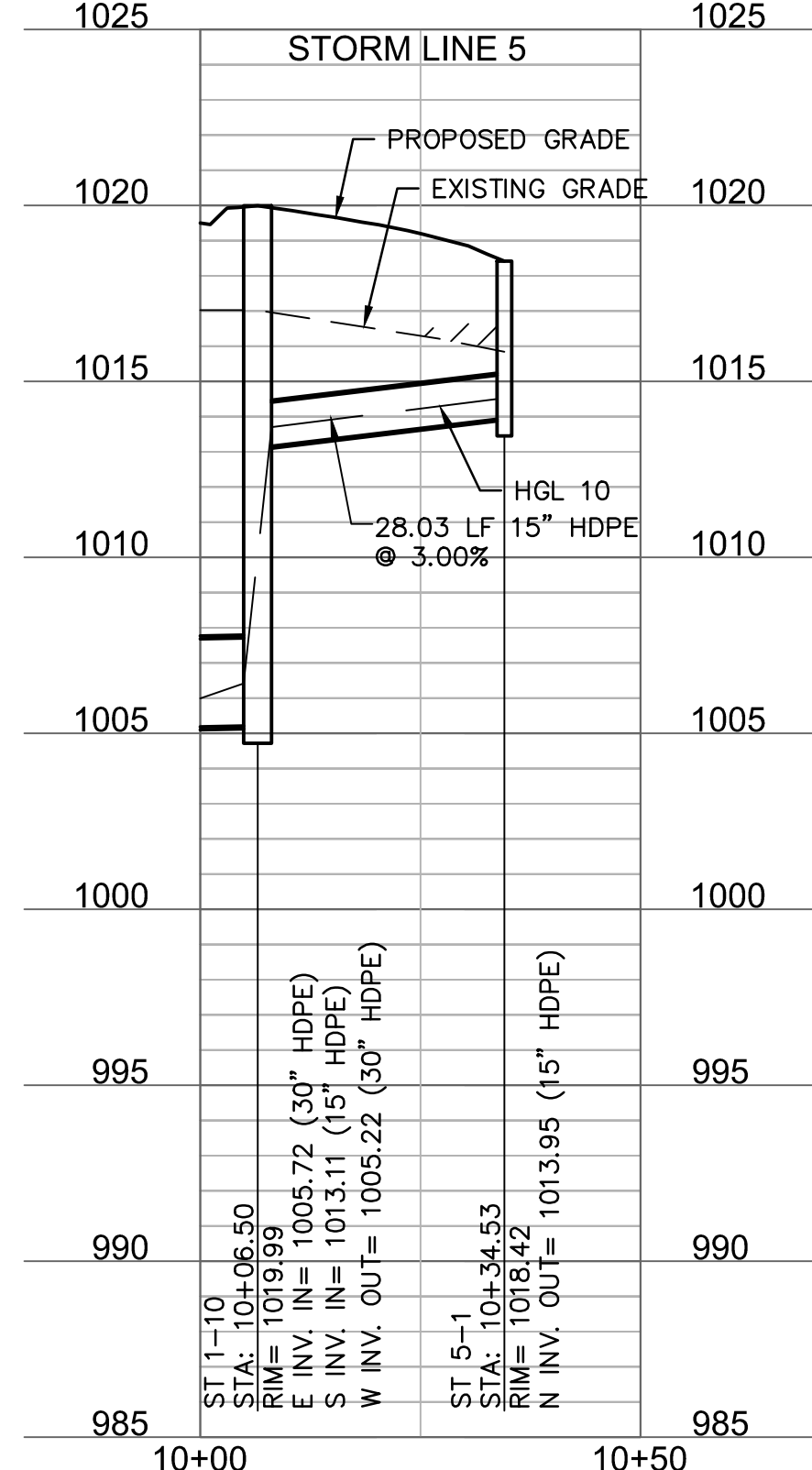
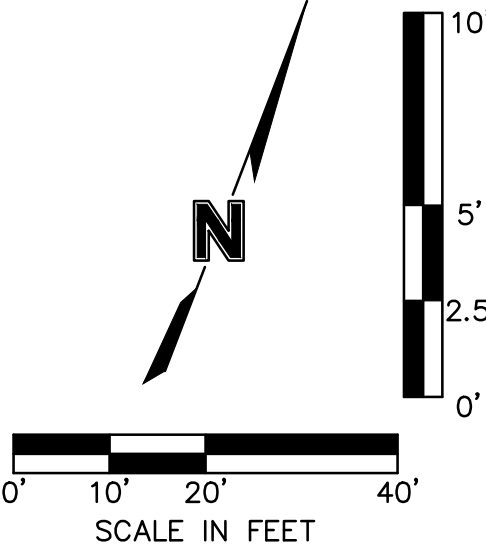
STORM PLAN & PROFILE
RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN
LEE'S SUMMIT, MO

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C_STM02_A2104054
date: 08.10.2022

SHEET
C7.4



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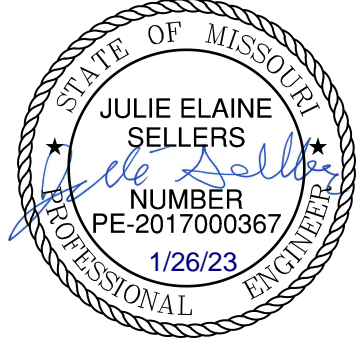
STORM PLAN & PROFILE

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

drawn by: CSM
checked by: CSM
approved by: JLS
QA/QC by: JLS
project no.: A21-04054
drawing no.: C_STW02_A2104054
date: 08.10.2022

SHEET
C7.5

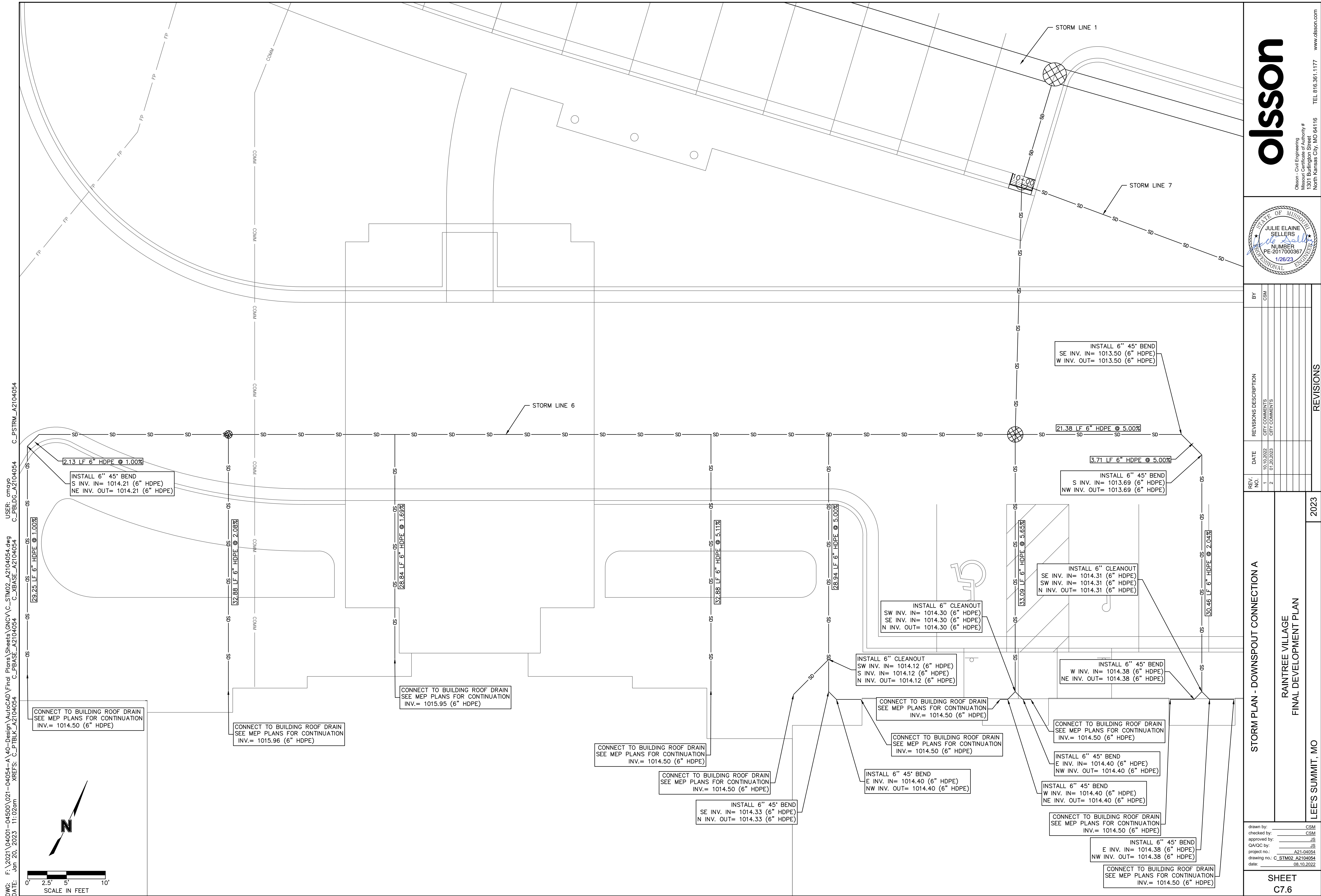


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		BY	CSM
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2	01.20.2023	CITY COMMENTS	

2023

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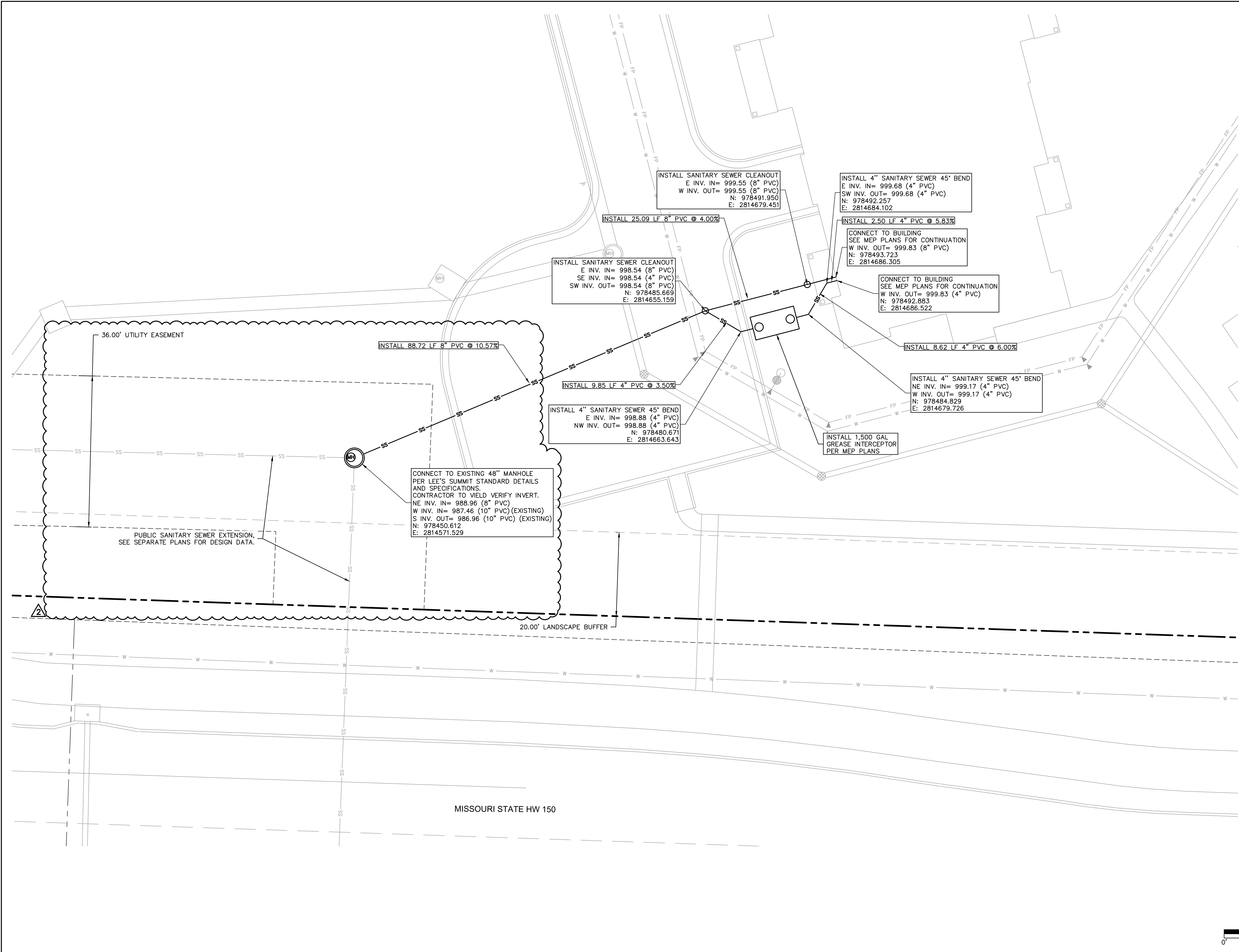
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North Kansas City, MO 64116
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Storm Sewer Design Calculation Table												
10 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
ST 1-1	ST P1-3	19.372	993.44	993.24	1.03	36	0.012	24.74	7.5	73.42	1.28	995.04
ST 1-2	ST 1-1	66.087	994.61	993.94	1.01	36	0.012	24.91	7.89	72.75	1.21	996.22
ST 1-3	ST 1-2	92.547	996.08	995.11	1.05	36	0.012	22.22	7.68	73.97	1.13	997.6
ST 1-4	ST 1-3	94.614	996.95	996.58	0.91	36	0.012	21.34	7.36	68.96	1.15	998.43
ST 1-5	ST 1-4	94.846	998.4	997.45	1	36	0.012	17.06	7.03	72.31	0.99	999.72
ST 1-6	ST 1-5	151.279	1000.41	998.9	1	36	0.012	15.33	6.81	72.18	0.94	1001.66
ST 1-7	ST 1-6	88.08	1001.9	1000.91	1.12	30	0.012	14	7.01	47.1	0.93	1003.16
ST 1-8	ST 1-7	110.483	1003.5	1002.4	1	30	0.012	14.21	6.86	44.33	0.97	1004.77
ST 1-9	ST 1-8	76.719	1004.38	1004	0.5	30	0.012	14.36	5.97	31.27	1.19	1005.66
ST 1-10	ST 1-9	68.177	1005.22	1004.88	0.5	30	0.012	12.7	5.76	31.37	1.11	1006.42
ST 1-11	ST 1-10	131.568	1006.38	1005.72	0.5	30	0.012	11.55	5.61	31.47	1.05	1007.52
ST 1-12	ST 1-11	123.87	1007.5	1006.88	0.5	24	0.012	7.22	5.07	17.33	0.9	1008.45
ST 1-13	ST 1-12	20.174	1007.6	1007.5	0.5	24	0.012	7.14	4.85	17.25	0.95	1008.55
ST 1-14	ST 1-13	48.072	1007.84	1007.6	0.5	24	0.012	7.1	4.85	17.31	0.95	1008.79
ST 1-15	ST 1-14	75.093	1008.72	1008.34	0.51	24	0.012	7.21	5.08	17.43	0.9	1009.67
ST 1-16	ST 1-15	86.161	1009.15	1008.72	0.5	24	0.012	7.28	4.92	17.31	0.95	1010.11
ST 1-17	ST 1-16	13.107	1009.72	1009.65	0.53	24	0.012	5.74	4.81	17.9	0.78	1010.57
ST 1-18	ST 1-17	27.321	1010.36	1010.22	0.51	24	0.012	4.85	4.54	17.54	0.72	1011.14
ST 1-19	ST 1-18	44.334	1010.58	1010.36	0.5	24	0.012	4.86	4.32	17.26	0.77	1011.36
ST 1-20	ST 1-19	104.293	1011.6	1011.08	0.5	24	0.012	5.02	4.56	17.3	0.74	1012.39
ST 1-21	ST 1-20	67.95	1013.28	1012.6	1	10	0.012	0.36	2.8	2.37	0.22	1013.54
ST 1-22	ST 1-21	27.501	1013.52	1013.28	0.87	10	0.012	0.25	1.96	2.22	0.26	1013.74
ST 1-23	ST 1-22	15.517	1014.04	1013.89	0.97	6	0.012	0.13	2.22	0.6	0.16	1014.22
ST 2-1	ST 1-4	29.549	999.88	998.7	3.99	18	0.012	5.65	7.83	22.73	0.51	1000.8
ST 2-2	ST 2-1	48.776	1002.83	1000.88	4	18	0.012	5.69	7.85	22.75	0.51	1003.75
ST 2-3	ST 2-2	68.879	1007.29	1003.83	5.02	15	0.012	5.73	8.7	15.68	0.52	1008.26
ST 2-4	ST 2-3	61.517	1009.52	1008.29	2	15	0.012	2.35	5.27	9.89	0.42	1010.13
ST 2-5	ST 2-4	120.22	1012.42	1010.02	2	15	0.012	2.43	5.32	9.88	0.42	1013.04
ST 2-6	ST 2-5	52.11	1013.96	1012.92	2	15	0.012	2.47	5.34	9.88	0.43	1014.59
ST 3-1	ST 2-3	143.036	1013.3	1008.29	3.5	15	0.012	4.03	7.08	13.09	0.48	1014.11
ST 4-1	EX 4-0	98	1001.7	1000.72	1	24	0.012	3.15	4.58	24.5	0.48	1002.32
ST 5-1	ST 1-10	28.026	1013.95	1013.11	3	15	0.012	1.92	5.45	12.11	0.34	1014.5
ST 6-1	ST 1-11	14.736	1011.11	1010.96	1.02	18	0.012	4.99	5.52	11.48	0.69	1011.97
ST 6-2	ST 6-1	32.221	1011.93	1011.61	0.99	12	0.012	1.12	3.77	3.84	0.37	1012.37
ST 6-3	ST 6-2	24	1012.67	1012.43	1	12	0.012	0.68	3.27	3.86	0.28	1013.01
ST 6-4	ST 6-3	15.147	1012.82	1012.67	0.99	12	0.012	0.46	2.23	3.84	0.34	1013.1
ST 6-5	ST 6-4	40.665	1013.23	1012.82	1.01	12	0.012	0.36	2.19	3.87	0.28	1013.48
ST 6-6	ST 6-5	21.415	1013.44	1013.23	0.98	12	0.012	0.25	1.9	3.82	0.25	1013.65
ST 6-7	ST 6-6	24.351	1014.19	1013.94	1.03	6	0.012	0.13	2.26	0.62	0.15	1014.37
ST 7-1	ST 6-1	40.175	1012.01	1011.61	1	15	0.012	3.65	5.17	6.98	0.64	1012.78
ST 8-1	ST 1-9	57.435	1012.71	1011.56	2	15	0.012	2.33	5.25	9.9	0.41	1013.32
ST 8-2	ST 8-1	27.994	1013.74	1013.46	1	6	0.012	0.31	2.93	0.61	0.26	1014.02
ST 8-3	ST 8-2	18.263	1013.92	1013.74	0.99	6	0.012	0.32	2.75	0.6	0.28	1014.21
ST 8-4	ST 8-3	41.897	1014.5	1013.92	1.38	6	0.012	0.13	1.61	0.71	0.28	1014.68

Storm Sewer Design Calculation Table												
100 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
ST 1-1	ST P1-3	19.372	993.44	993.24	1.03	36	0.012	51.85	10.01	73.42	1.86	995.78
ST 1-2	ST 1-1	66.087	994.61	993.94	1.01	36	0.012	52.07	9.99	72.75	1.88	996.95
ST 1-3	ST 1-2	92.547	996.08	995.11	1.05	36	0.012	46.27	9.21	73.97	1.84	998.29
ST 1-4	ST 1-3	40.614	996.95	996.58	0.91	36	0.012	44.35	9.23	68.96	1.75	999.12
ST 1-5	ST 1-4	94.846	998.4	997.45	1	36	0.012	35.24	8.04	72.31	1.67	1000.33
ST 1-6	ST 1-5	151.279	1000.41	998.9	1	36	0.012	31.34	8.23	72.18	1.43	1002.22
ST 1-7	ST 1-6	88.08	1001.9	1000.91	1.12	30	0.012	28.49	8.75	47.1	1.4	1003.72
ST 1-8	ST 1-7	110.483	1003.5	1002.4	1	30	0.012	28.76	8.54	44.33	1.47	1005.33
ST 1-9	ST 1-8	76.719	1004.38	1004	0.5	30	0.012	28.94	7.23	31.27	1.9	1006.28
ST 1-10	ST 1-9	68.177	1005.22	1004.88	0.5	30	0.012	25.49	7.07	31.37	1.72	1006.94
ST 1-11	ST 1-10	131.568	1006.38	1005.72	0.5	30	0.012	22.97	6.89	31.47	1.59	1008.01
ST 1-12	ST 1-11	123.87	1007.5	1006.88	0.5	24	0.012	14.21	6.16	17.33	1.38	1008.88
ST 1-13	ST 1-12	20.174	1007.6	1007.5	0.5	24	0.012	14.04	5.27	17.25	1.61	1009.15
ST 1-14	ST 1-13	48.072	1007.84	1007.6	0.5	24	0.012	13.92	5.01	17.31	1.73	1009.43
ST 1-15	ST 1-14	75.093	1008.72	1008.34	0.51	24	0.012	14.04	6.18	17.43	1.36	1010.08
ST 1-16	ST 1-15	86.161	1009.15	1008.72	0.5	24	0.012	14.07	5.68	17.31	1.6	1010.52
ST 1-17	ST 1-16	13.107	1009.72	1009.65	0.53	24	0.012	11.08	5.83	17.9	1.14	1010.91
ST 1-18	ST 1-17	27.321	1010.36	1010.22	0.51	24	0.012	9.33	5.5	17.54	1.04	1011.45
ST 1-19	ST 1-18	44.334	1010.58	1010.36	0.5	24	0.012	9.3	5.32	17.26	1.09	1011.67
ST 1-20	ST 1-19	104.293	1011.6	1011.08	0.5	24	0.012	9.47	5.49	17.3	1.06	1012.7
ST 1-21	ST 1-20	67.95	1013.28	1012.6	1	10	0.012	0.66	3.34	2.37	0.3	1013.64
ST 1-22	ST 1-21	27.501	1013.52	1013.28	0.87	10	0.012	0.45	2.32	2.22	0.36	1013.81
ST 1-23	ST 1-22	15.517	1014.04	1013.89	0.97	6	0.012	0.23	2.64	0.6	0.21	1014.28
ST 2-1	ST 1-4	29.549	999.88	998.7	3.99	18	0.012	10.75	9.74	22.73	0.73	1001.14
ST 2-2	ST 2-1	48.776	1002.83	1000.88	4	18	0.012	10.8	9.76	22.75	0.73	1004.09
ST 2-3	ST 2-2	68.879	1007.29	1003.83	5.02	15	0.012	10.84	11.37	15.68	0.76	1008.49
ST 2-4	ST 2-3	61.517	1009.52	1008.29	2	15	0.012	4.42	6.4	9.89	0.59	1010.37
ST 2-5	ST 2-4	120.22	1012.42	1010.02	2	15	0.012	4.5	6.44	9.88	0.59	1013.28
ST 2-6	ST 2-5	52.11	1013.96	1012.92	2	15	0.012	4.54	6.45	9.88	0.59	1014.82
ST 3-1	ST 2-3	143.036	1013.3	1008.29	3.5	15	0.012	7.07	8.61	13.09	0.65	1014.36
ST 4-1	EX 4-0	98	1001.7	1000.72	1	24	0.012	5.53	5.39	24.5	0.65	1002.53
ST 5-1	ST 1-10	28.026	1013.95	1013.11	3	15	0.012	3.38	6.46	12.11	0.45	1014.69
ST 6-1	ST 1-11	14.736	1011.11	1010.96	1.02	18	0.012	9.51	6.79	11.48	1.04	1012.3
ST 6-2	ST 6-1	32.221	1011.93	1011.61	0.99	12	0.012	2.11	3.89	3.84	0.69	1012.55
ST 6-3	ST 6-2	24	1012.67	1012.43	1	12	0.012	1.28	3.93	3.86	0.4	1013.15
ST 6-4	ST 6-3	15.147	1012.82	1012.67	0.99	12	0.012	0.86	2.69	3.84	0.48	1013.21
ST 6-5	ST 6-4	40.665	1013.23	1012.82	1.01	12	0.012	0.66	2.59	3.87	0.39	1013.57
ST 6-6	ST 6-5	21.415	1013.44	1013.23	0.98	12	0.012	0.45	2.23	3.82	0.34	1013.72
ST 6-7	ST 6-6	24.351	1014.19	1013.94	1.03	6	0.012	0.23	2.68	0.62	0.21	1014.43
ST 7-1	ST 6-1	40.175	1012.01	1011.61	1	15	0.012	6.4	6.21	6.98	0.94	1013.03
ST 8-1	ST 1-9	57.435	1012.71	1011.56	2	15	0.012	4.2	6.3	9.9	0.57	1013.54
ST 8-2	ST 8-1	27.994	1013.74	1013.46	1	6	0.012	0.57	3.51	0.61	0.38	1014.12
ST 8-3	ST 8-2	18.263	1013.92	1013.74	0.99	6	0.012	0.57	3.49	0.6	0.39	1014.31
ST 8-4	ST 8-3	41.897	1014.5	1013.92	1.38	6	0.012	0.23	1.85	0.71	0.46	1014.74

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DATE: Jan 20, 2023 11:04am



A north arrow pointing upwards with the letter 'N' in the center. Below it is a scale bar marked from 0' to 20' in increments of 5'.

SANITARY SEWER PLAN					
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN					
LEE'S SUMMIT, MO					
drawn by: _____ CSM checked by: _____ CSM approved by: _____ JLS QA/QC by: _____ JLS project no.: _____ A21-04054 drawing no.: C_SAN01_A2104054 date: _____ 08.10.2022					
SHEET C8.0					

olsson

Clean Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177 www.olsson.com

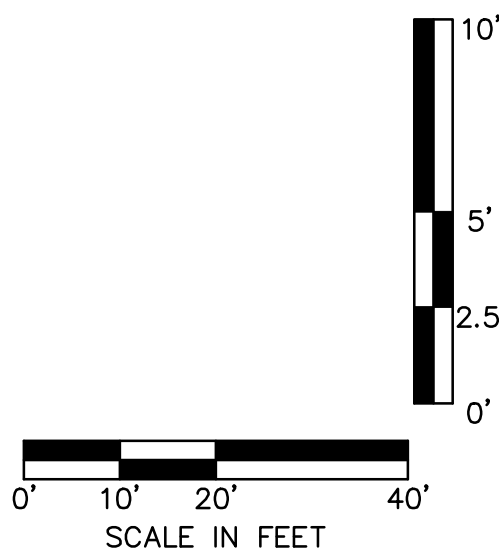
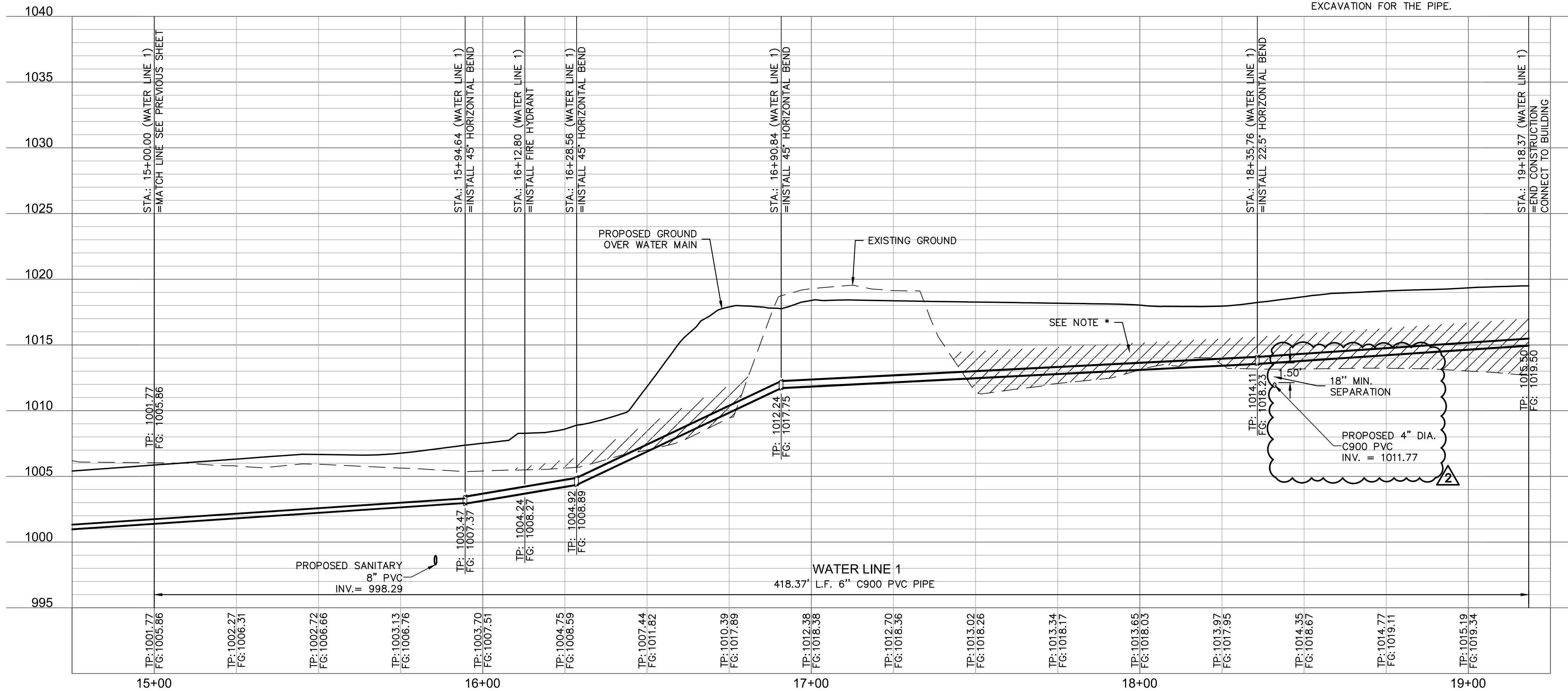
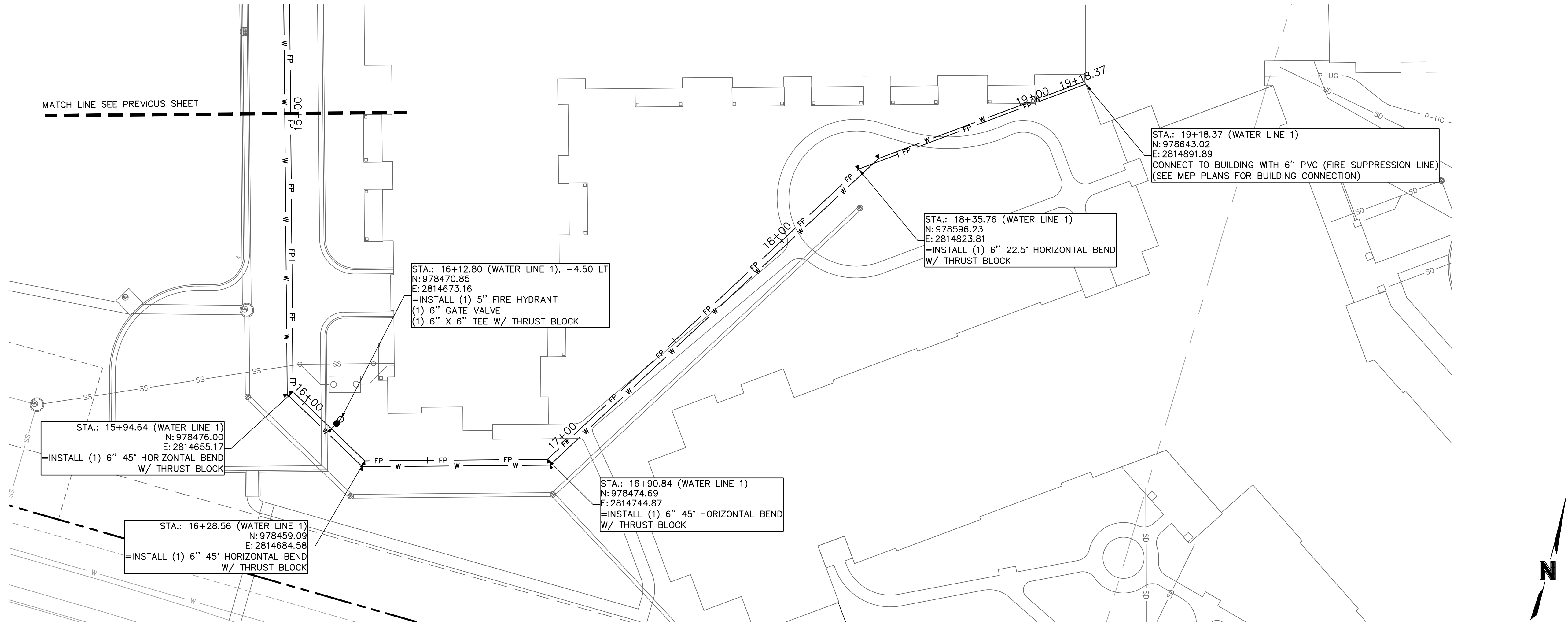
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SANITARY SEWER PLAN	
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN	
LEE'S SUMMIT, MO	2023

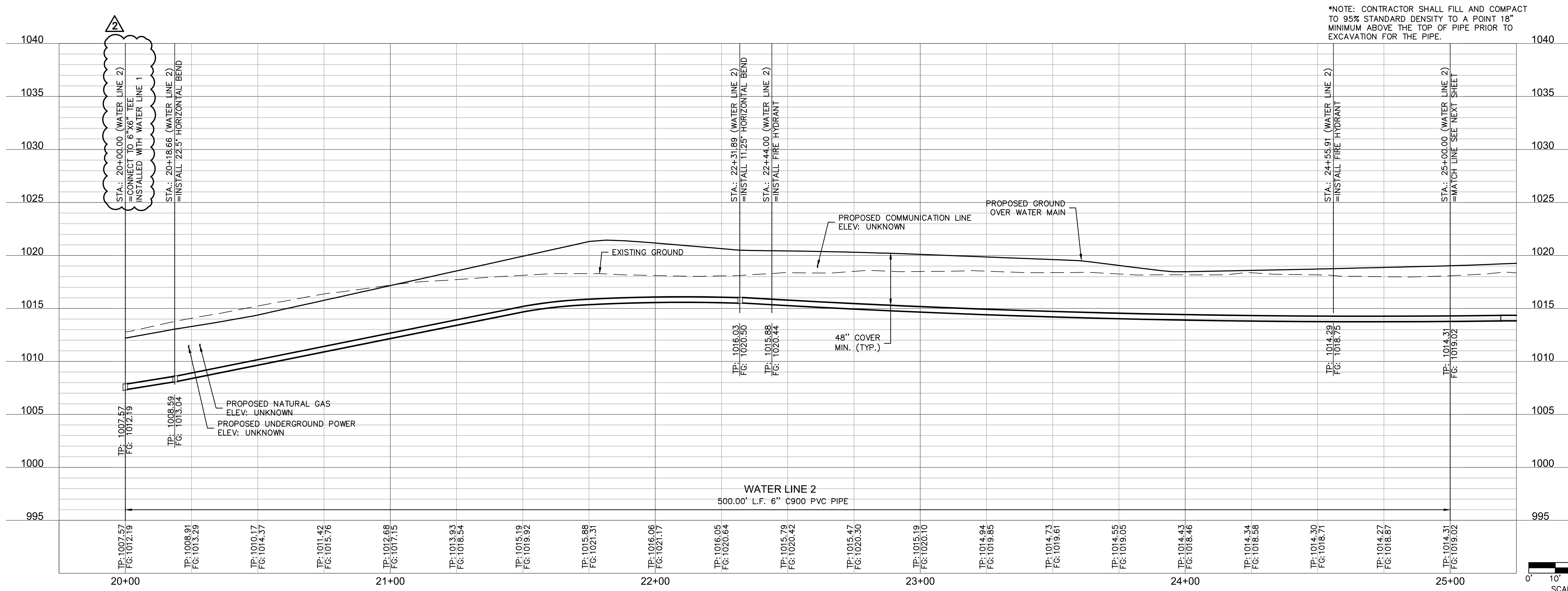
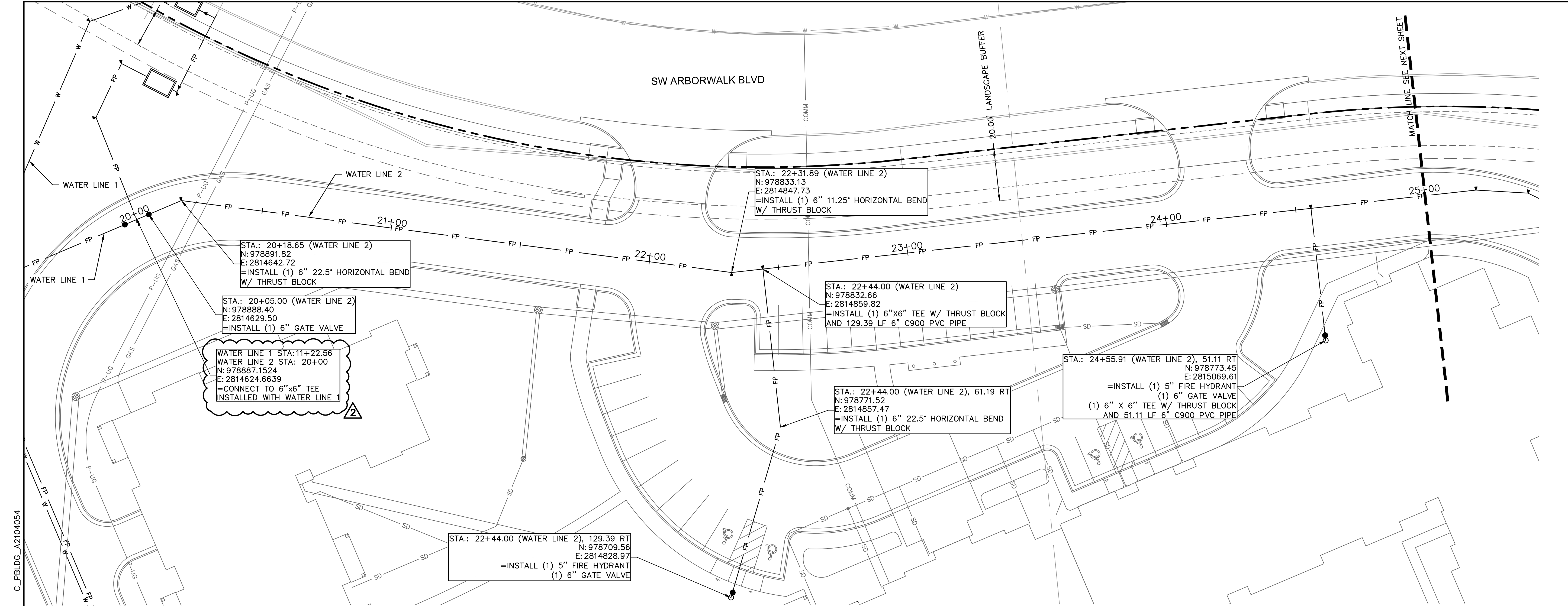
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approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C SAN01 A2104054
date: _____ 08.10.2022

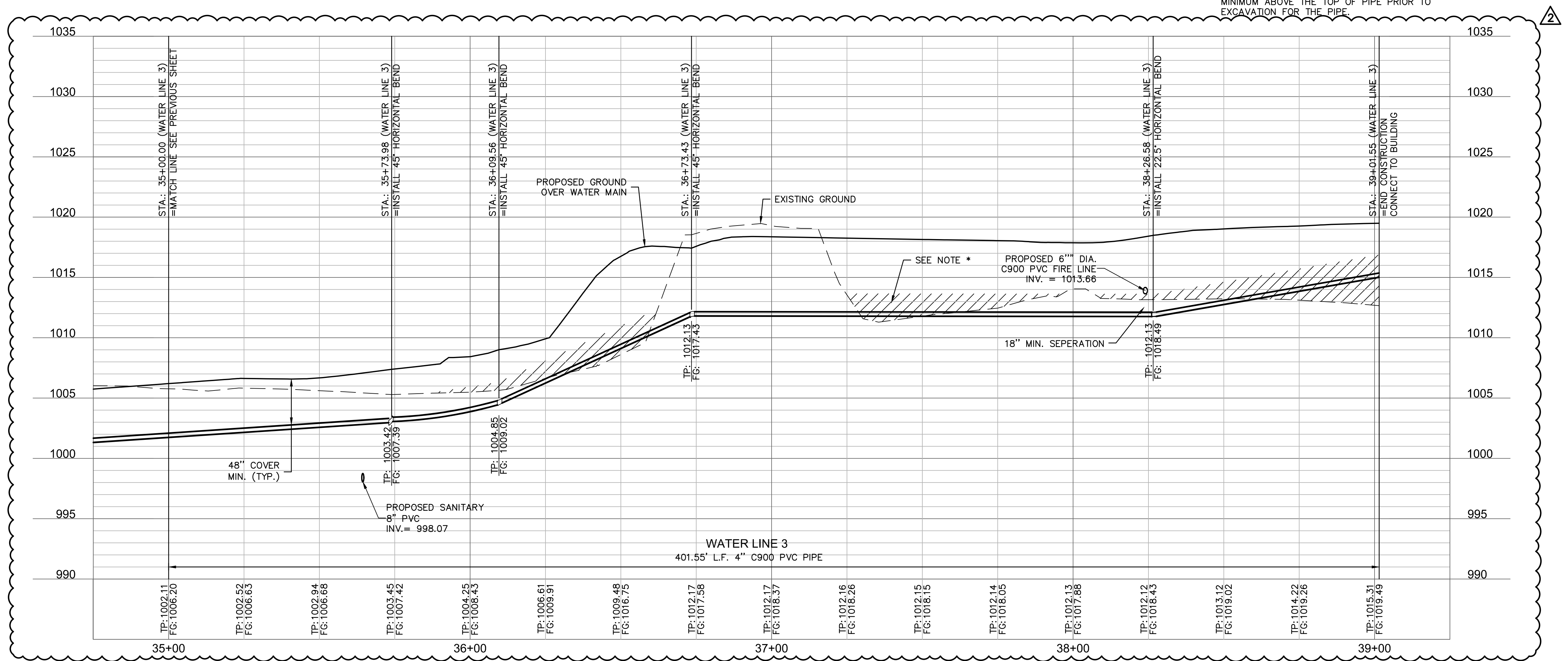
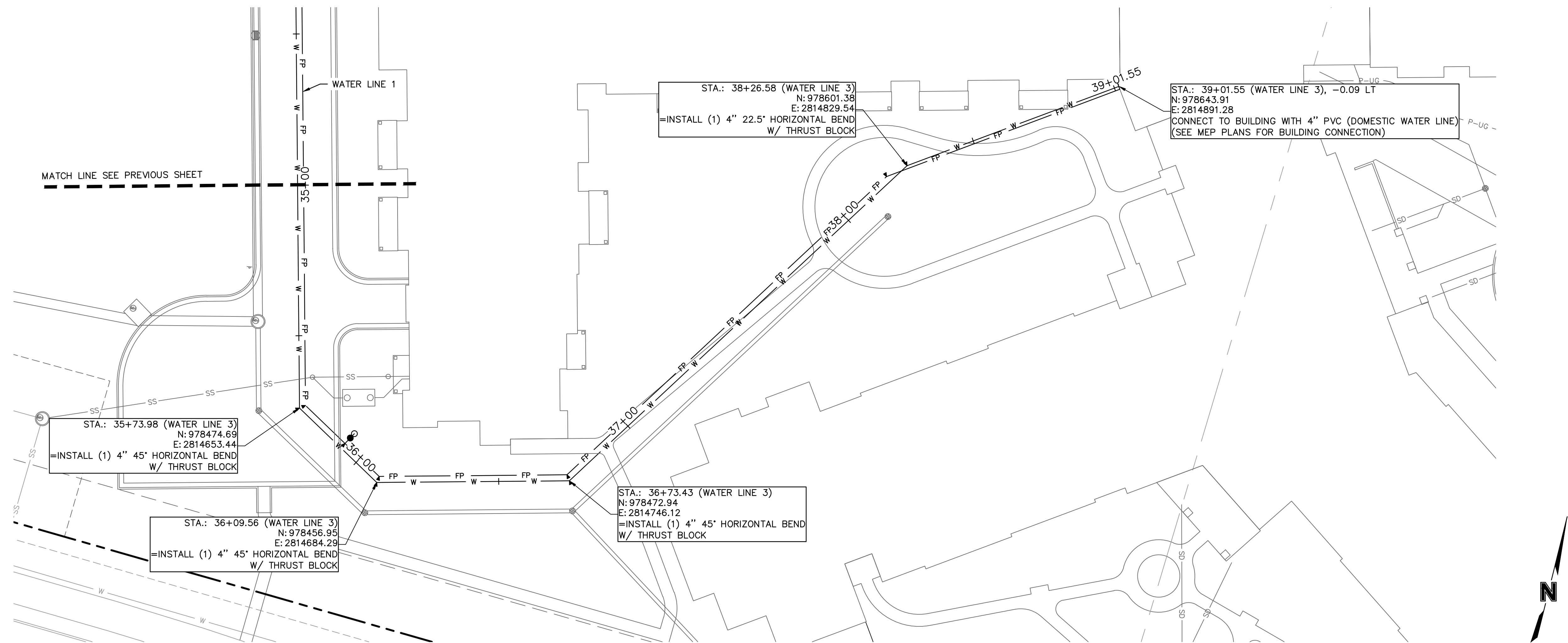
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WATER PLAN & PROFILE		
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN		
LEE'S SUMMIT, MO		
drawn by: CSM	checked by: CSM	
approved by: JS	QA/QC by: JS	
project no.: A21-04054	drawing no.: C_WAT01_A2104054	
date: 08.10.2022		
SHEET C9.1		
REV. NO. DATE REVISIONS DESCRIPTION		
1	10.10.2022	CITY COMMENTS
2	01.20.2023	CITY COMMENTS
BY CSM		
REVISIONS		
2023		
olsson		
Olsson - Civil Engineering Missouri Certificate of Authority # 1301 Burlington Street North Kansas City, MO 64116 TEL 816.351.1177 www.olsson.com		
JULIE ELAINE SELLERS NUMBER PE 2017000367 1/26/23 PROFESSIONAL ENGINEER		





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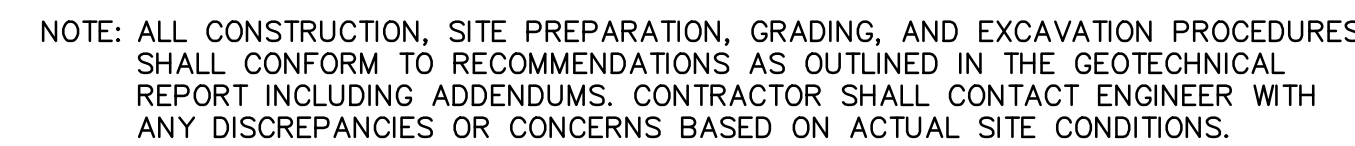
STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
1/26/23
PROFESSIONAL ENGINEER

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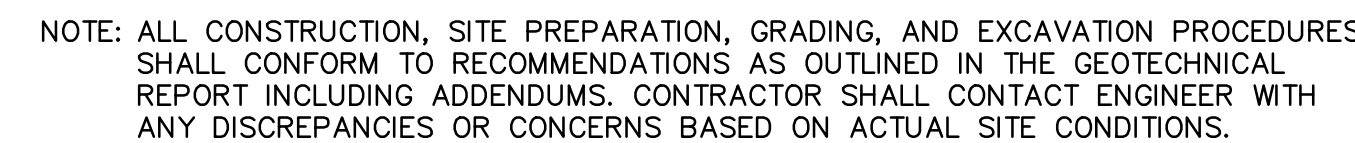
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	checked by: _____ CSM
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN	approved by: _____ JS
	QA/QC by: _____ JS
LEE'S SUMMIT, MO	project no.: _____ A21-04054
	drawing no.: C_WAT02 A21-04054
	date: _____ 08.10.2022
SHEET C9.5	

drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C_WAT02_A2104054
date: _____ 08.10.2022

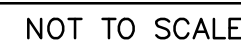
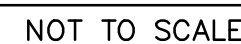
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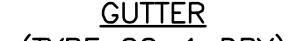
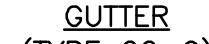
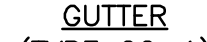
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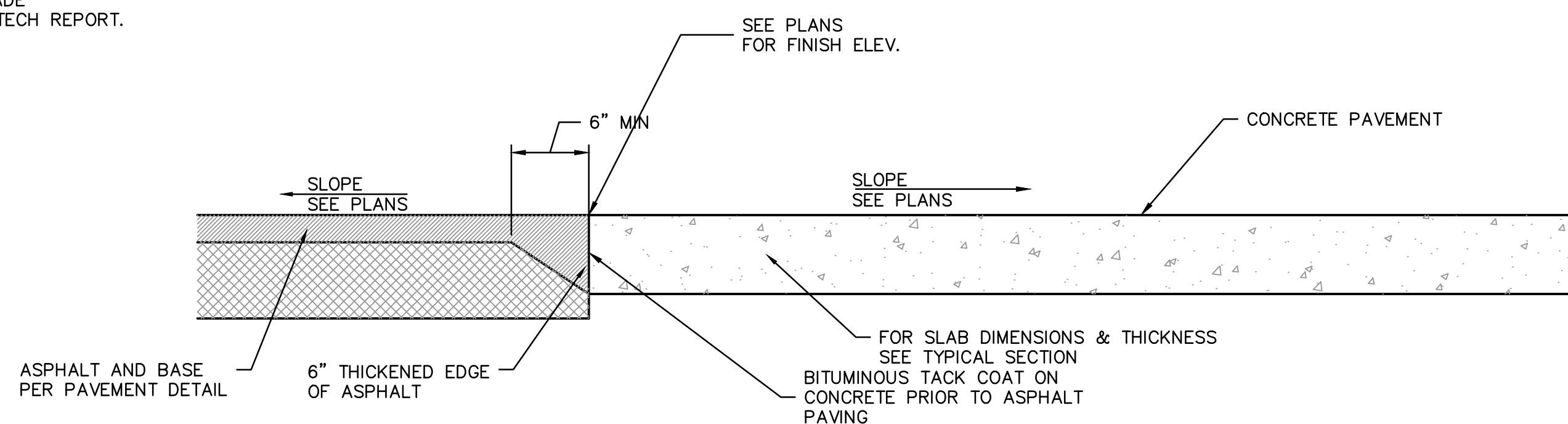
1. 5,000 PSI KCMCB CONCRETE SHALL BE USED FOR STRUCTURES WITH ORIFICE PLATE
2. STRUCTURES MAY BE PRE-CAST OR CAST IN PLACE AT THE CONTRACTOR'S OPTION. FOR PRE-CAST CONSTRUCTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DESIGN ENGINEER, AND PROVIDE A COPY OF THE APPROVED SHOP DRAWINGS TO THE CITY.

GENERAL NOTES:

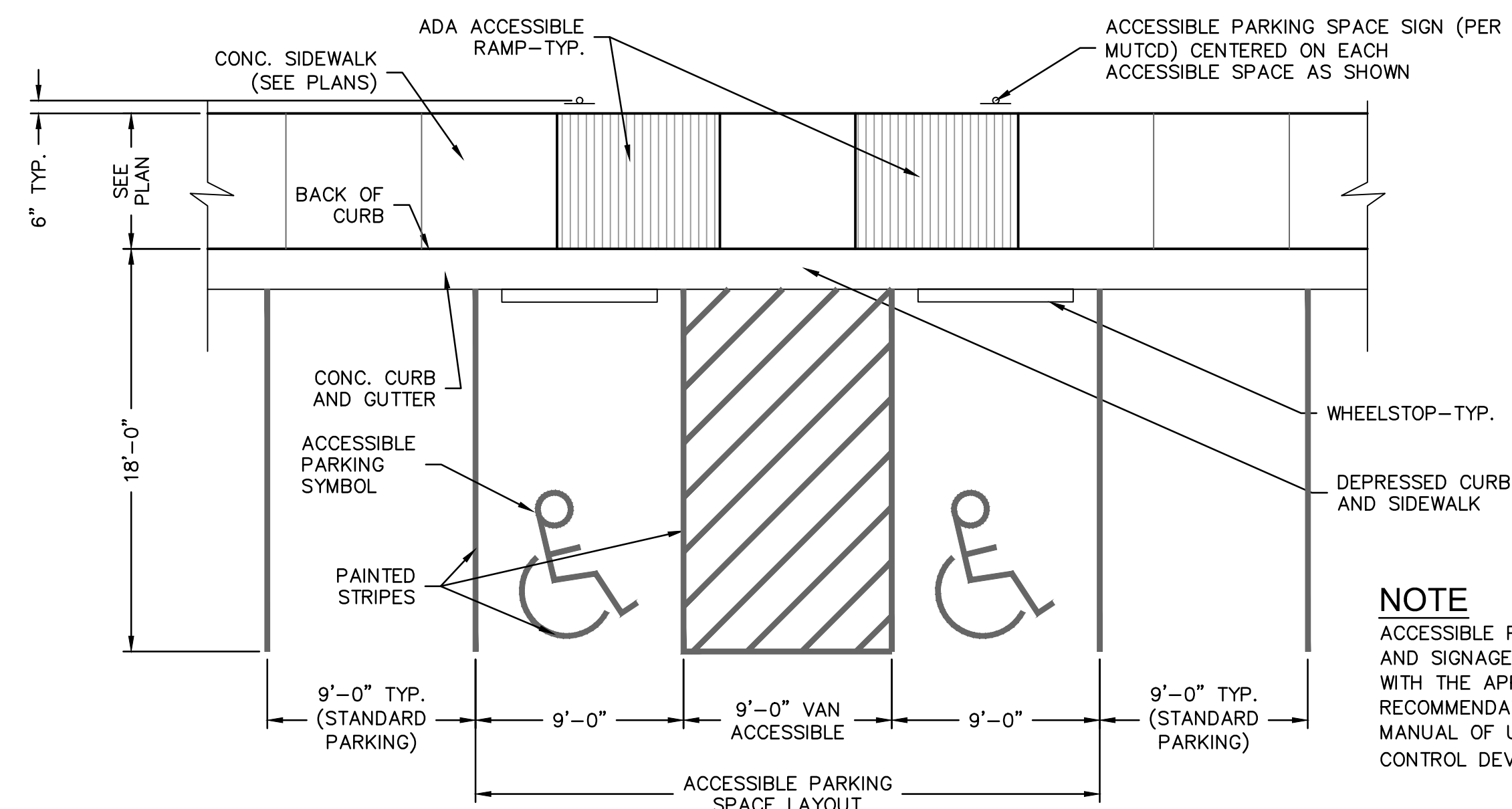
1. ¾" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE CURE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH.
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURBS.
5. ASPHALTIC CONCRETE SURFACE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 220.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. AGGREGATE BASE AND SUBGRADE PREPARATION SHALL EXTEND A MINIMUM ONE FOOT BEYOND THE BACK OF CURB



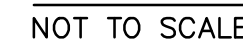
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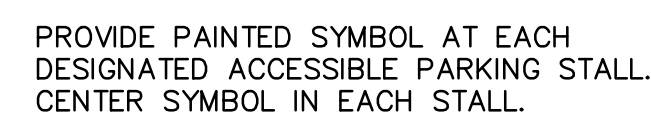


NOT TO SCALE



NOTES

1. SIGN TO BE PER LOCAL JURISDICTION REQUIREMENTS. VERIFY SIZE, SHAPE & VERBIAGE
2. PROVIDE SIGN AT EACH HANDICAPPED ACCESSIBLE PARKING STALL.



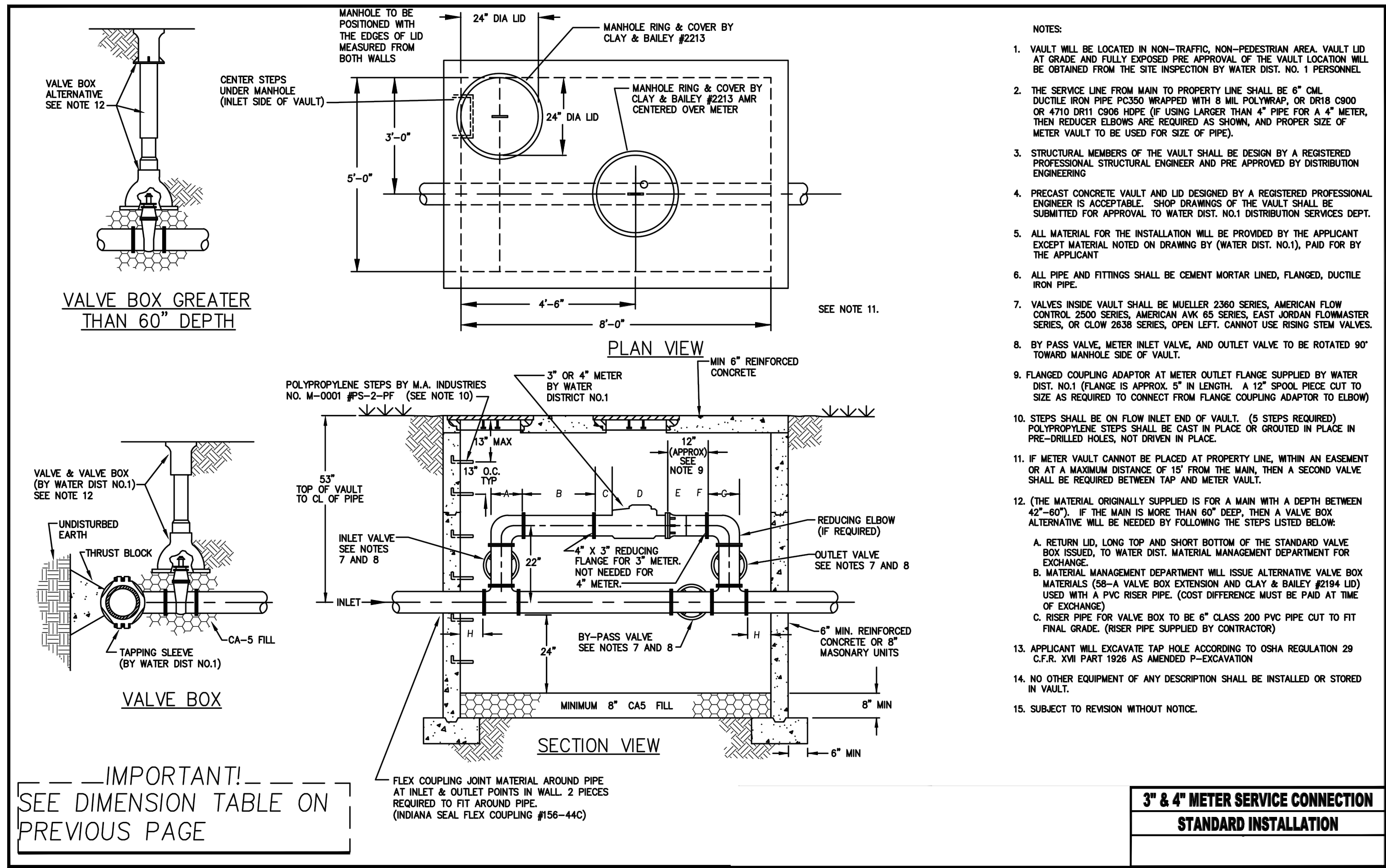
NOT TO SCALE

CONSTRUCTION DETAILS

RAINTREE VILLAGE
FINAL DEVELOPMENT PLAN

LEE'S SUMMIT. MO

SHEET
C10.0



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REVISIONS

2023

LANDSCAPE PLAN

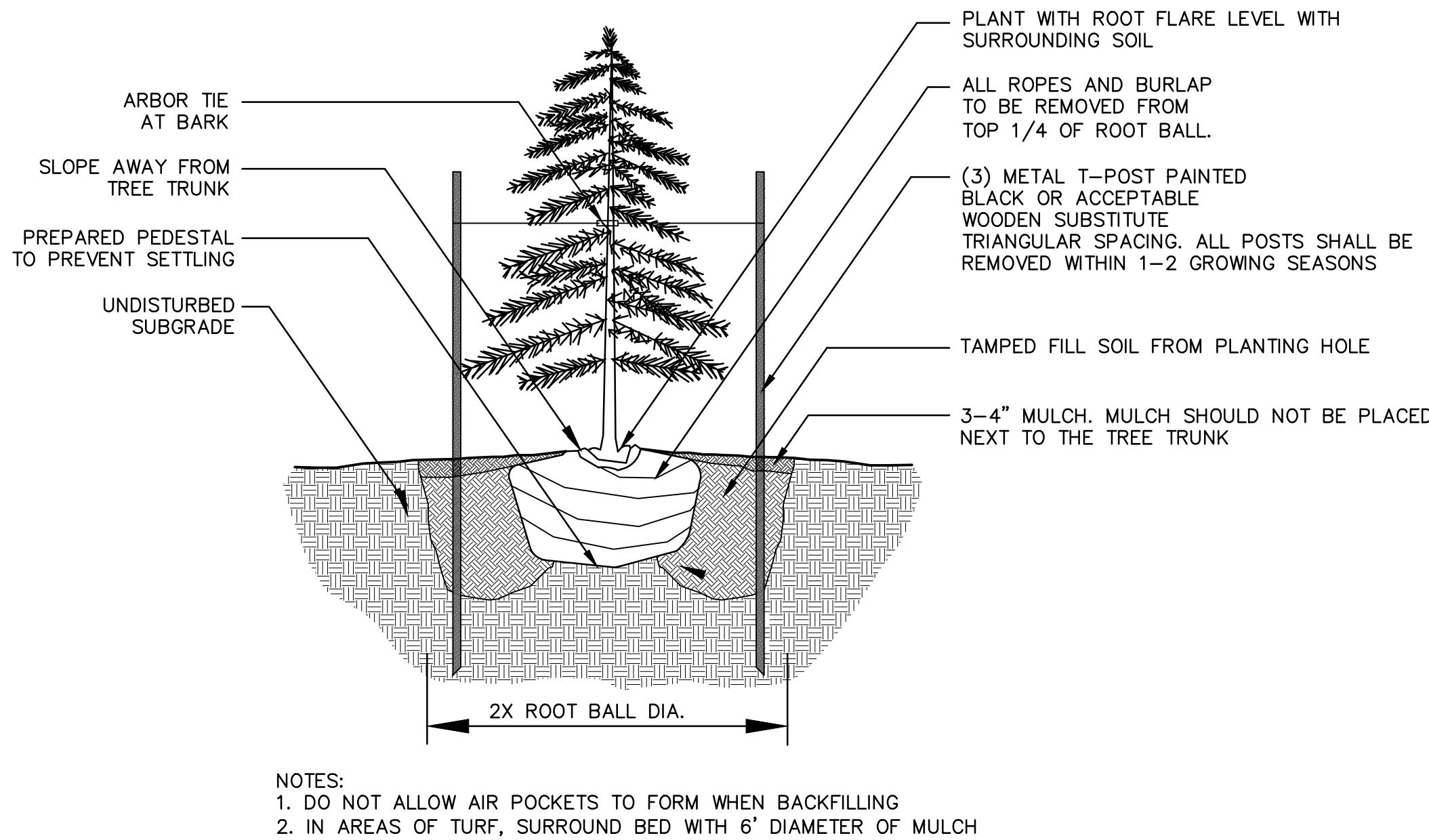
RAINTREE VILLAGE FINAL DEVELOPMENT PLAN

LEE'S SUMMIT, MO

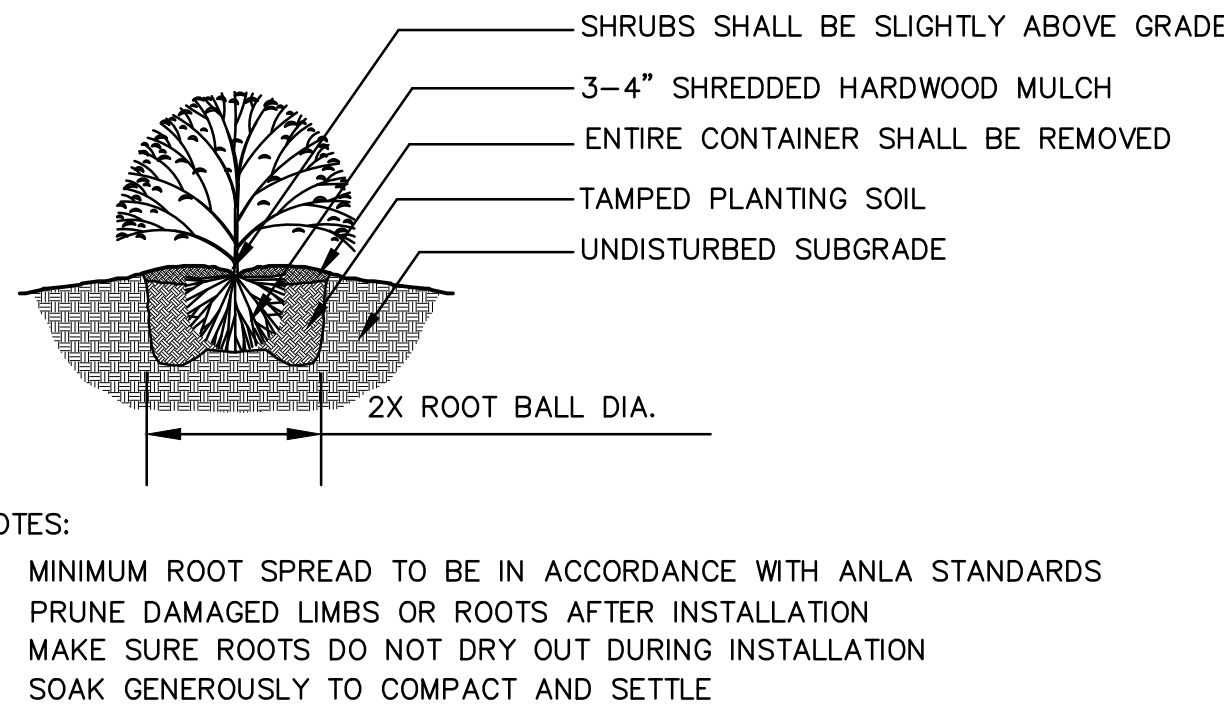
drawn by: _____ CSM
checked by: _____ CSM
approved by: _____ JS
QA/QC by: _____ JS
project no.: _____ A21-04054
drawing no.: C LSC01 A2104054
date: _____ 08.10.2022

SHEET
L1.1

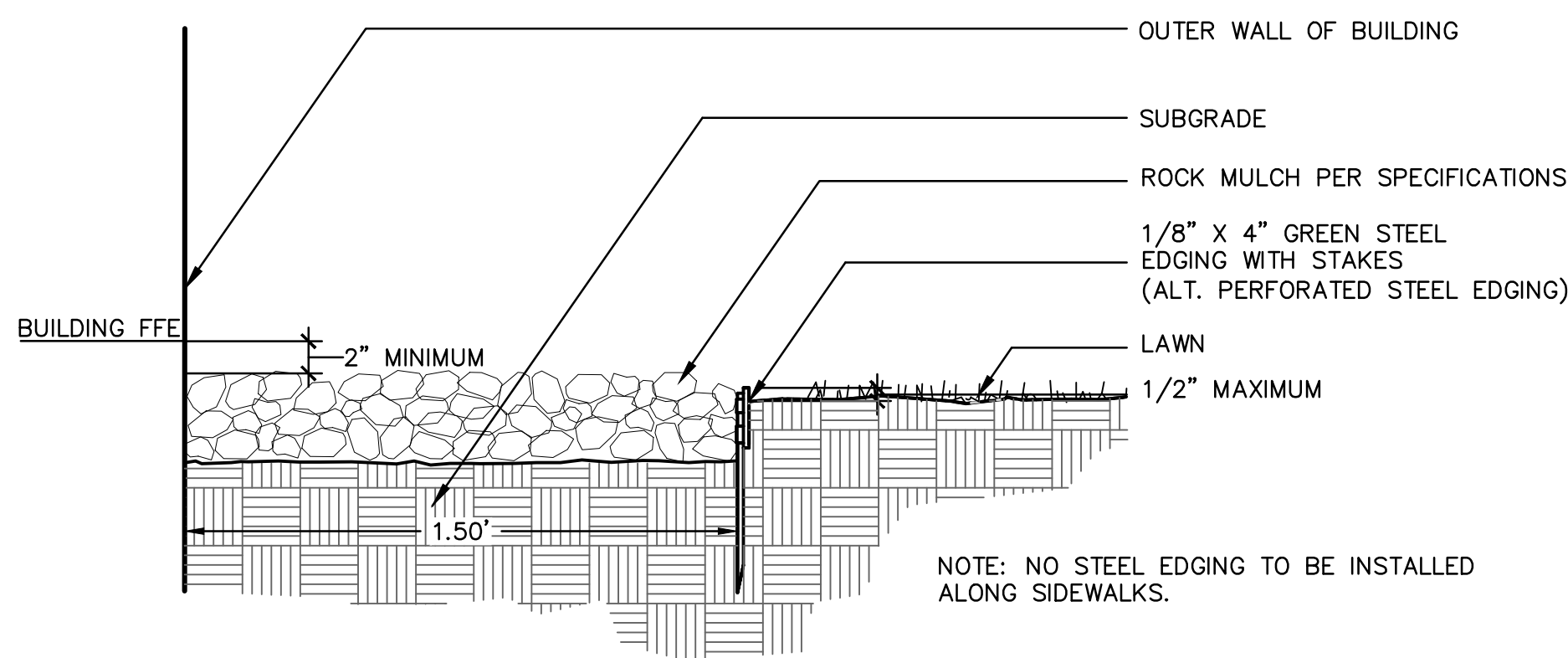
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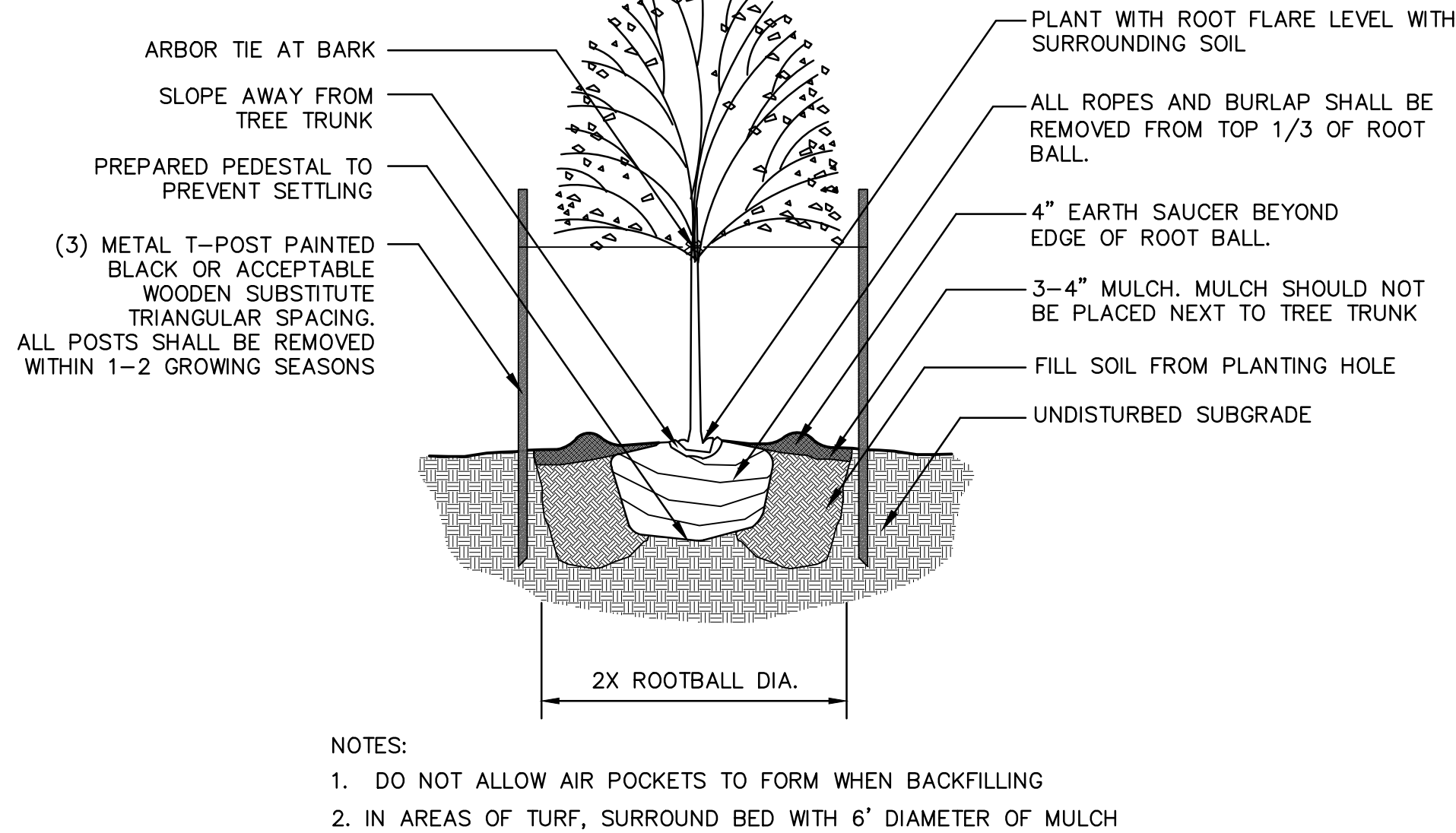
1 Evergreen Tree Planting Detail
not to scale



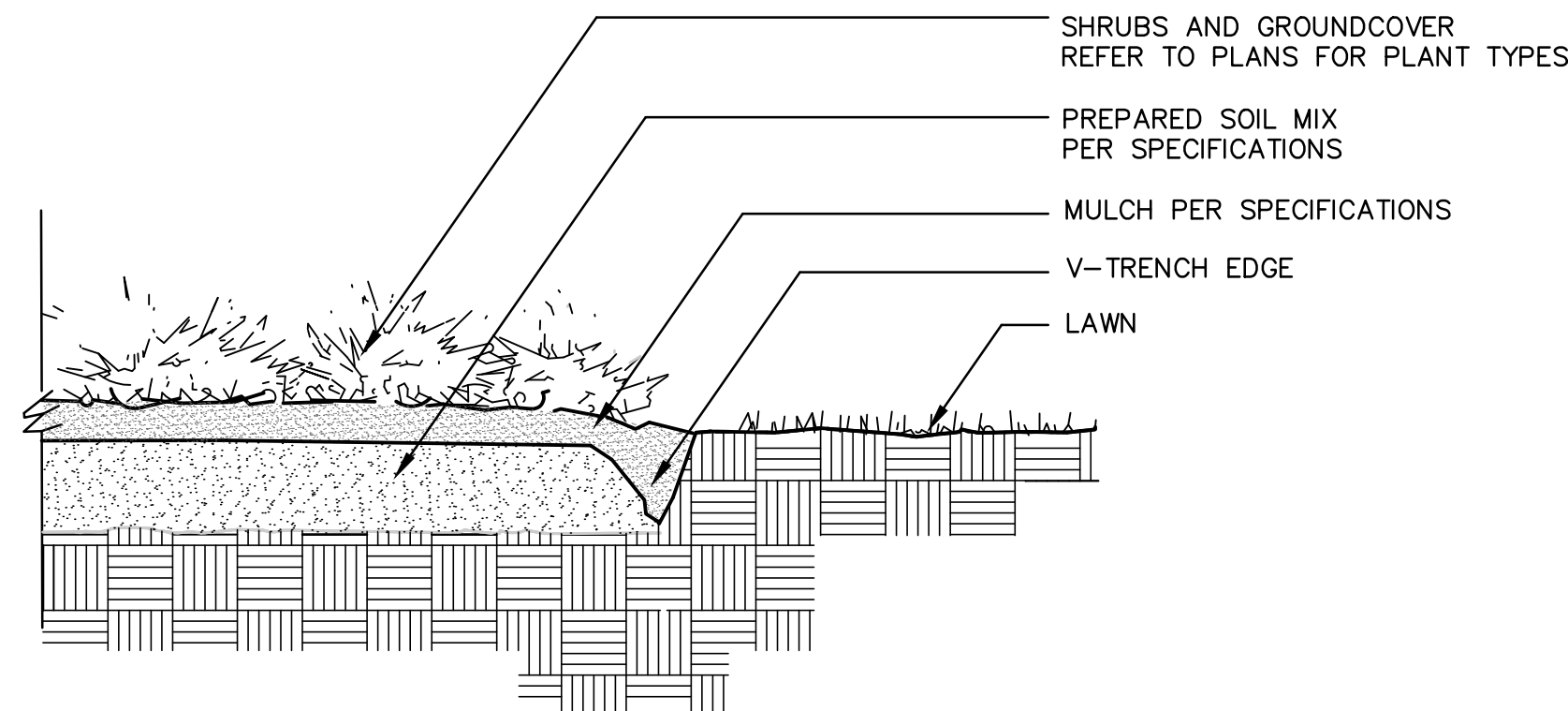
3 Shrub Planting Detail
not to scale



5 Rock Mulch Border Detail
not to scale



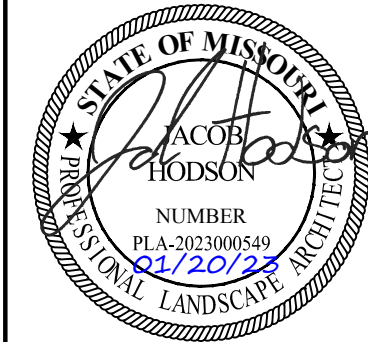
2 Deciduous Tree Planting Detail
not to scale



4 V-Trench Edging Detail
not to scale

olsson

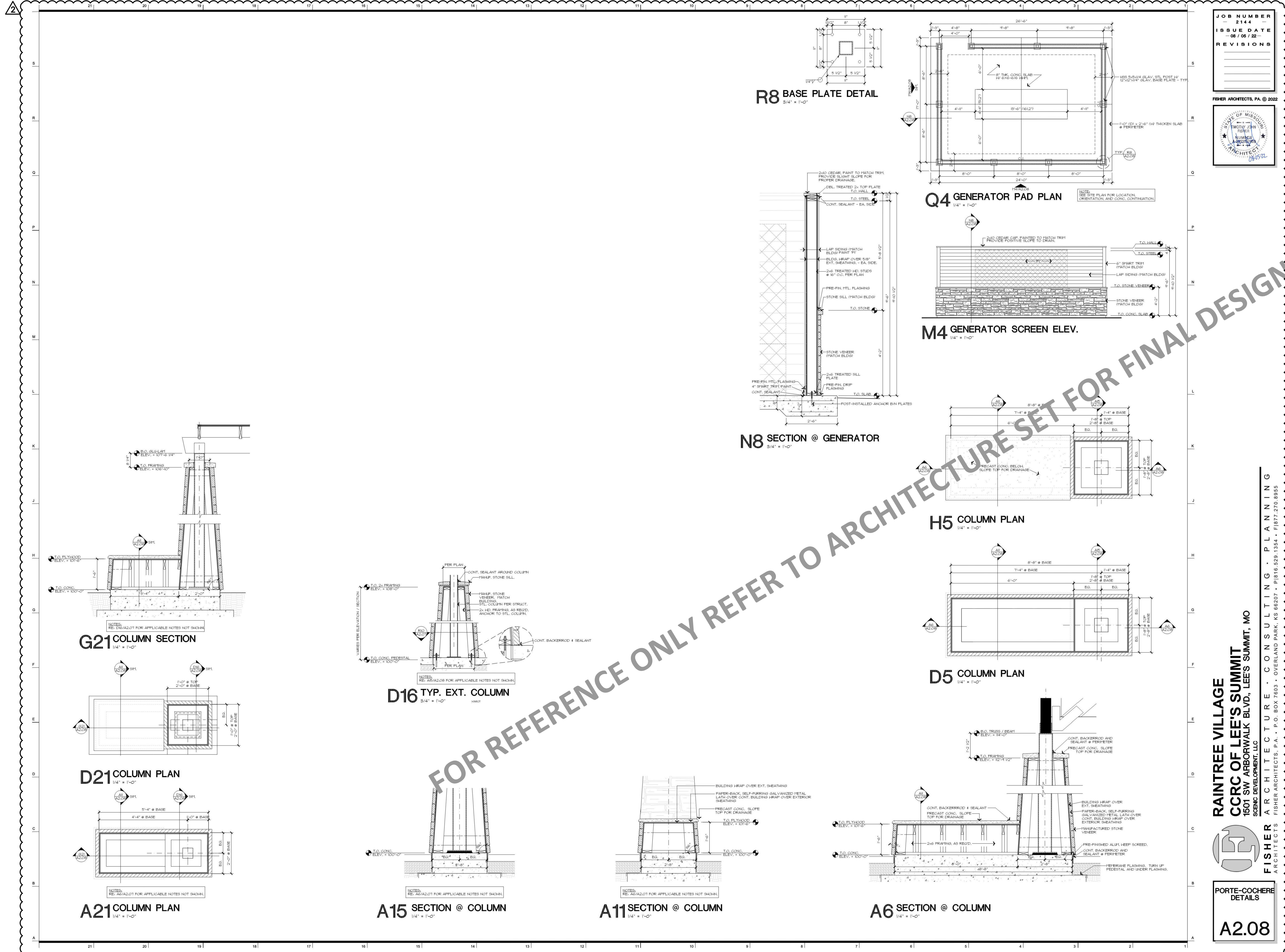
Olsson - Civil Engineering
Missouri Certificate of Authority #
1301 Burlington Street
North Kansas City, MO 64116
TEL 816.361.1177 www.olsson.com



REV. NO.	DATE	REVISIONS DESCRIPTION	
		BY	CSM
1	10.10.2022		
2	01.20.2023		

LANDSCAPE DETAILS	RAINTREE VILLAGE FINAL DEVELOPMENT PLAN	2023

drawn by: CSM
checked by: CSM
approved by: JS
QA/QC by: JS
project no.: A21-04054
drawing no.: C-LSC01_A2104054
date: 08.10.2022





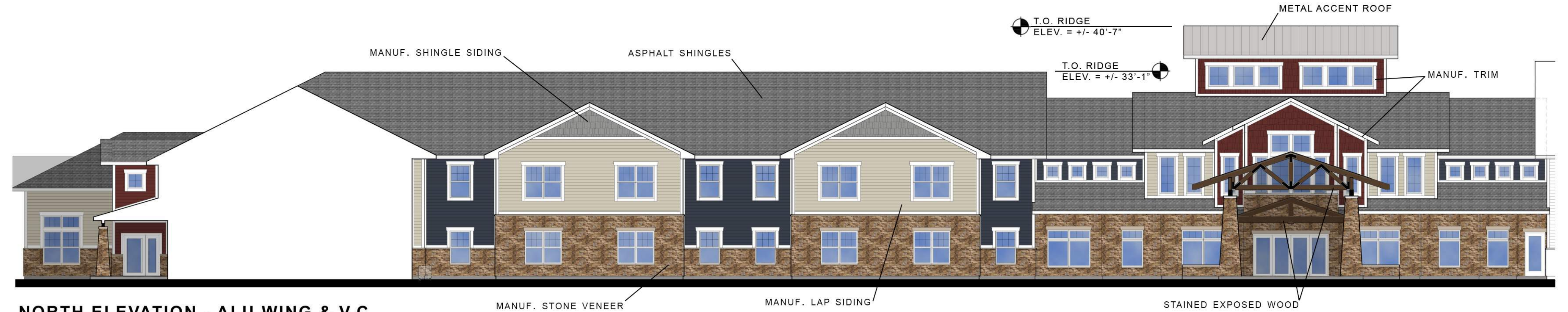
NORTH ELEVATION - ILU WING



SOUTH ELEVATION - ILU WING



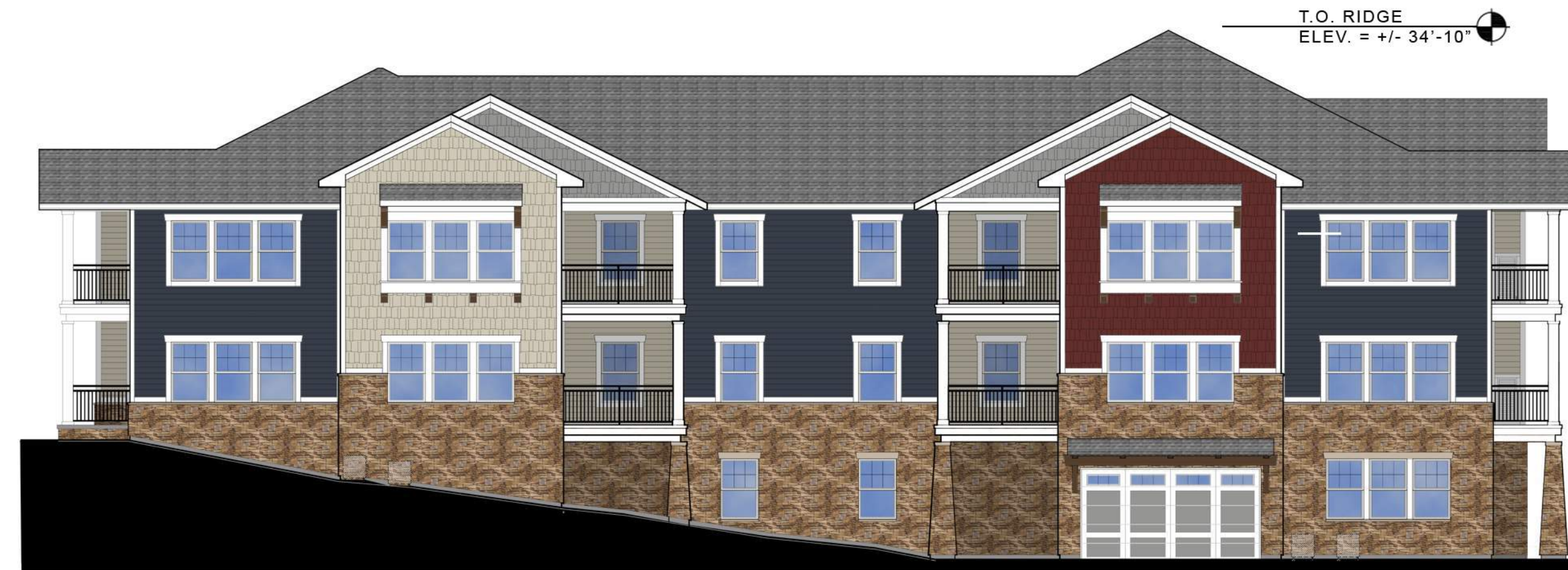
EAST ELEVATION - ILU WING



NORTH ELEVATION - ALU WING & V.C.



SOUTH COURTYARD ELEVATION - ILU WING



NORTH ELEVATION - ILU WING



EAST ELEVATION - ILU WING

ALUMINUM GUARDRAIL - BLACK

EXTERIOR MATERIALS

- MANUF. SHINGLE SIDING
- MANUF. LAP SIDING
- MANUF. TRIM
- MANUF. STONE VENEER
- ASPHALT SHINGLES
- STAINED EXPOSED WOOD
- VINYL WINDOWS

EXTERIOR COLORS

- SW7036: ACCESSIBLE BEIGE
- SW2739: CHARCOAL BLUE
- SW7669: SUMMIT GRAY
- SW2802: ROCKWOOD RED
- SW7005: PURE WHITE

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SCENIC DEVELOPMENT LLC
RETIREMENT COMMUNITY DEVELOPERS



A2.01



NORTH ELEVATION - ALU WING



EAST ELEVATION - ALU WING



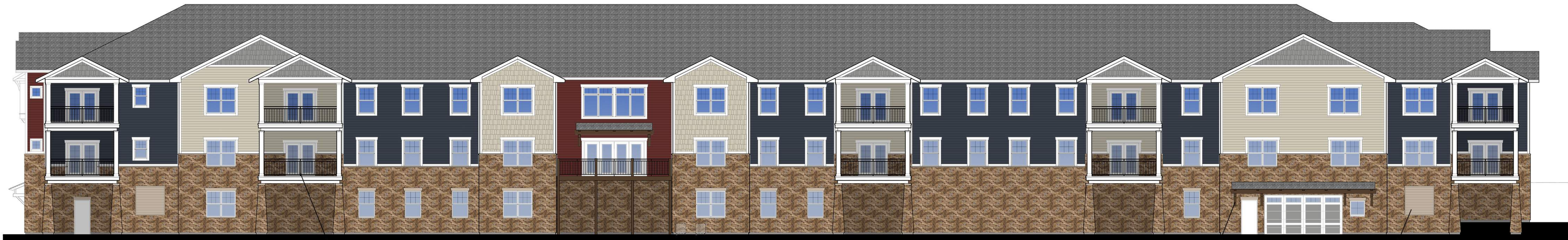
SOUTH ELEVATION - ILU WING



WEST ELEVATION - ALU WING



SOUTH ELEVATION - ALU WING



WEST ELEVATION - ILU WING

EXTERIOR MATERIALS	
-	MANUF. SHINGLE SIDING
-	MANUF. LAP SIDING
-	MANUF. TRIM
-	MANUF. STONE VENEER
-	ASPHALT SHINGLES
-	STAINED EXPOSED WOOD
-	VINYL WINDOWS

EXTERIOR COLORS	
	SW7036: ACCESSIBLE BEIGE
	SW2739: CHARCOAL BLUE
	SW7669: SUMMIT GRAY
	SW2802: ROCKWOOD RED
	SW7005: PURE WHITE

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SCENIC DEVELOPMENT LLC
RETIREMENT COMMUNITY DEVELOPERS



NORTH ELEVATION - SNF WING



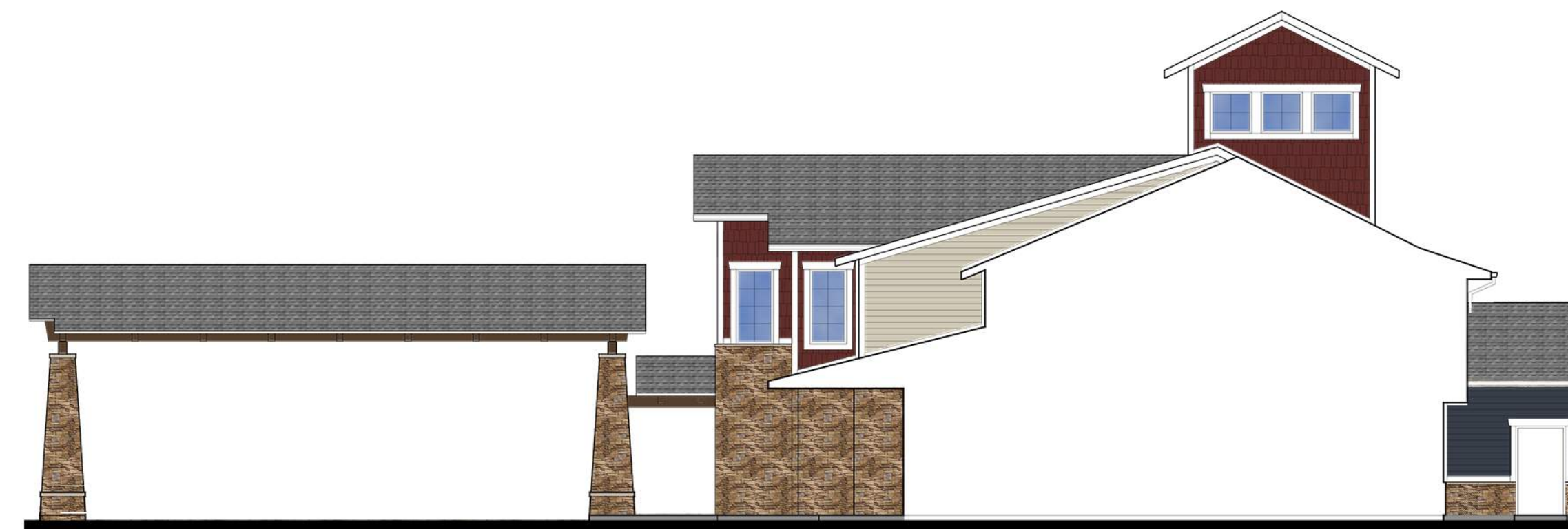
SOUTH AND WEST ELEVATION - SNF WING



SOUTH COURTYARD ELEVATION - SNF WING



S.W. ELEVATION - SNF WING



WEST ELEVATION - VC & SNF WING



EAST ELEVATION - VC & SNF WING



EAST ELEVATION - SNF WING



WEST COURTYARD ELEVATION - SNF WING

EXTERIOR MATERIALS	
-	MANUF. SHINGLE SIDING
-	MANUF. LAP SIDING
-	MANUF. TRIM
-	MANUF. STONE VENEER
-	ASPHALT SHINGLES
-	STAINED EXPOSED WOOD
-	VINYL WINDOWS

EXTERIOR COLORS	
	SW7036: ACCESSIBLE BEIGE
	SW2739: CHARCOAL BLUE
	SW7669: SUMMIT GRAY
	SW2802: ROCKWOOD RED
	SW7005: PURE WHITE

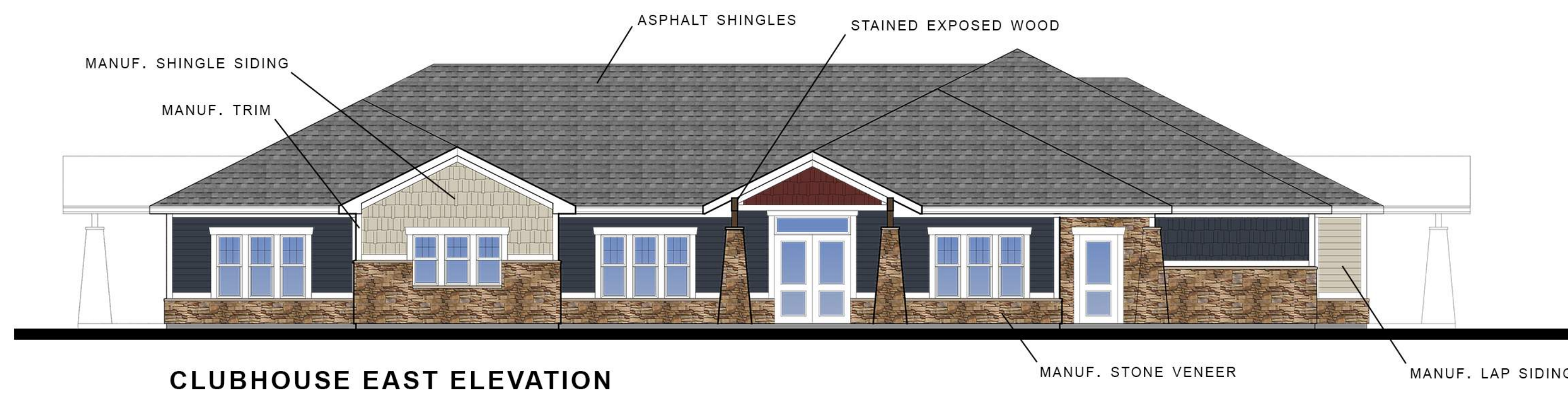
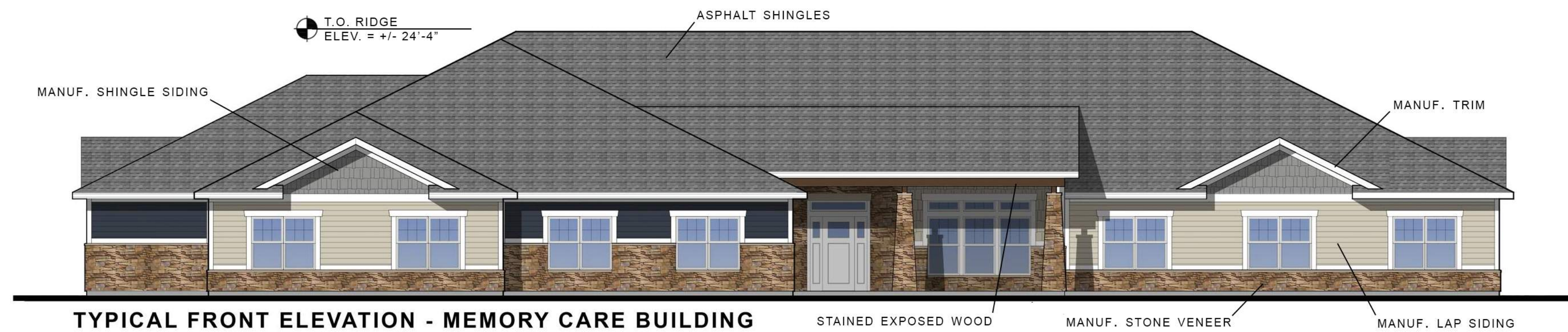
RAINTREE VILLAGE

LEE'S SUMMIT, MO

SCENIC DEVELOPMENT LLC
RETIREMENT COMMUNITY DEVELOPERS



A2.03



EXTERIOR MATERIALS

- MANUF. SHINGLE SIDING
- MANUF. LAP SIDING
- MANUF. TRIM
- MANUF. STONE VENEER
- ASPHALT SHINGLES
- STAINED EXPOSED WOOD
- VINYL WINDOWS

EXTERIOR COLORS

- SW7036: ACCESSIBLE BEIGE
- SW2739: CHARCOAL BLUE
- SW7669: SUMMIT GRAY
- SW2802: ROCKWOOD RED
- SW7005: PURE WHITE

RAINTREE VILLAGE

LEE'S SUMMIT, MO

SITE NOTES

1 THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.

2 MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, UTILITY REQUIREMENTS, LAWS AND ORDINANCES OF FEDERAL, STATE, OSHA AND LOCAL GOVERNING BODIES HAVING JURISDICTION.

3 THE CONTRACTOR SHALL COMPLY WITH ALL CODES AND STANDARDS APPLICABLE TO THIS PROJECT THAT ARE LISTED BUT NOT LIMITED TO: NEC, NFPA, NEMA, ANSI, ETC. EEE, NFPA LIFE SAFETY 100, ASHRAE 90.1, EEC ENERGY CODES AND ISO BUILDING CODE.

4 PRIOR TO ANY DIGGING, TRENCHING, ETC. CONTACT ALL LOCAL UTILITY COMPANIES AND MANIPULATES AND CONFIRM EXACT LOCATIONS OF ALL EXISTING UTILITIES.

5 MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY.

6 ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC SHALL BE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING TO BE REUSED.

7 ALL POLE FIXTURES TO BE LOCATED 4' AWAY FROM EDGE OF CURB.

8 ALL EXTERIOR LIGHT FIXTURES TO BE CONNECTED TO A COMMON EQUIPMENT GROUND. USE #6 TYPE THWN.

9 ALL CIRCUIT TO BE PLACED IN 1" CONDUITS UNLESS OTHERWISE NOTED. CIRCUIT TO USE COPPER WIRE, TYPE THWN.

10 THE CONTROLLING LIGHTING CONTRACTORS SHALL BE MOUNTED INSIDE THE BUILDING WITH TIME-CLOCK CONTROL. A REMOTE PHOTOCELLS LOCATED ON THE EXTERIOR SIDE OF THE BUILDING WALL. INSTALL PHOTOCELLS AT LOCATIONS WHERE BUILDING OR OTHER OBSTRUCTIONS WILL NOT INTERFERE WITH THEIR PROPER OPERATION. FINAL BRANCH CIRCUIT SUPPLY CONNECTIONS WILL BE PROVIDED BY THE BUILDING ELECTRICAL CONTRACTORS.

11 MIN. BURIAL DEPTH FOR THE LIGHTING CIRCUIT SHALL BE 24". A SLIGHT DECREASE IN DEPTH IS ALLOWED WITHIN 10' OF THE POLES.

12 VERIFY CONSTRUCTION AREAS ON OTHER SITE PLANS FOR POTENTIAL OBSTACLES AND CONSTRUCTION LIMITS.

ELECTRICAL GENERAL NOTES

1 ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

2 COORDINATE WORK WITH ALL OTHER TRADES.

3 EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

4 ALL WIRING SHALL BE INSTALLED IN APPROVED RACINGS.

5 ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED AT ALL LOCATIONS.

6 ALL MEASUREMENTS TO TOP OF BOX. RECEPTABLES SHALL BE 20" A.F.F. SWITCHES SHALL BE 48" A.F.F.

7 GFI PROTECT ALL RECEPTABLES WITHIN 6' OF EVERY SINK.

8 DRAWINGS ONLY REPRESENT AN APPROXIMATE LOCATION OF ALL RECEPTABLES, SWITCHES, LIGHTS, TV/DATA JACKS, ELECTRICAL EQUIPMENT, ETC. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD AND MAY VARY FROM DRAWINGS DUE TO UNFORESEEN CIRCUMSTANCES.

9 PROVIDE GFCI PROTECTION FOR ALL AREAS LISTED UNDER NEC 210.8.

10 PROVIDE TAMPER RESISTANT RECEPTABLES IN ALL AREAS LISTED UNDER NEC 408.12.

LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURE	MODEL	LAMPS	WATTAGE	DESCRIPTION
AA	-	-	LED	20	SMALL EXTERIOR WALL PACK
BB	-	-	LED	30	MEDIUM EXTERIOR WALL PACK
CC	-	-	LED	15	EXTERIOR RECESSED DOWNLIGHT
DD	-	-	LED	70	POLE MOUNT FIXTURE, TYPE II OPTICS, 20' POLE
EE	-	-	LED	70	POLE MOUNT FIXTURE, TYPE III OPTICS, 20' POLE
FF	-	-	LED	100	POLE MOUNT FIXTURE, TYPE V OPTICS, 20' POLE
GG	-	-	-	-	DUAL HEAD FLOOD LIGHTS

NOTES:

POWER & COMMUNICATION LEGEND

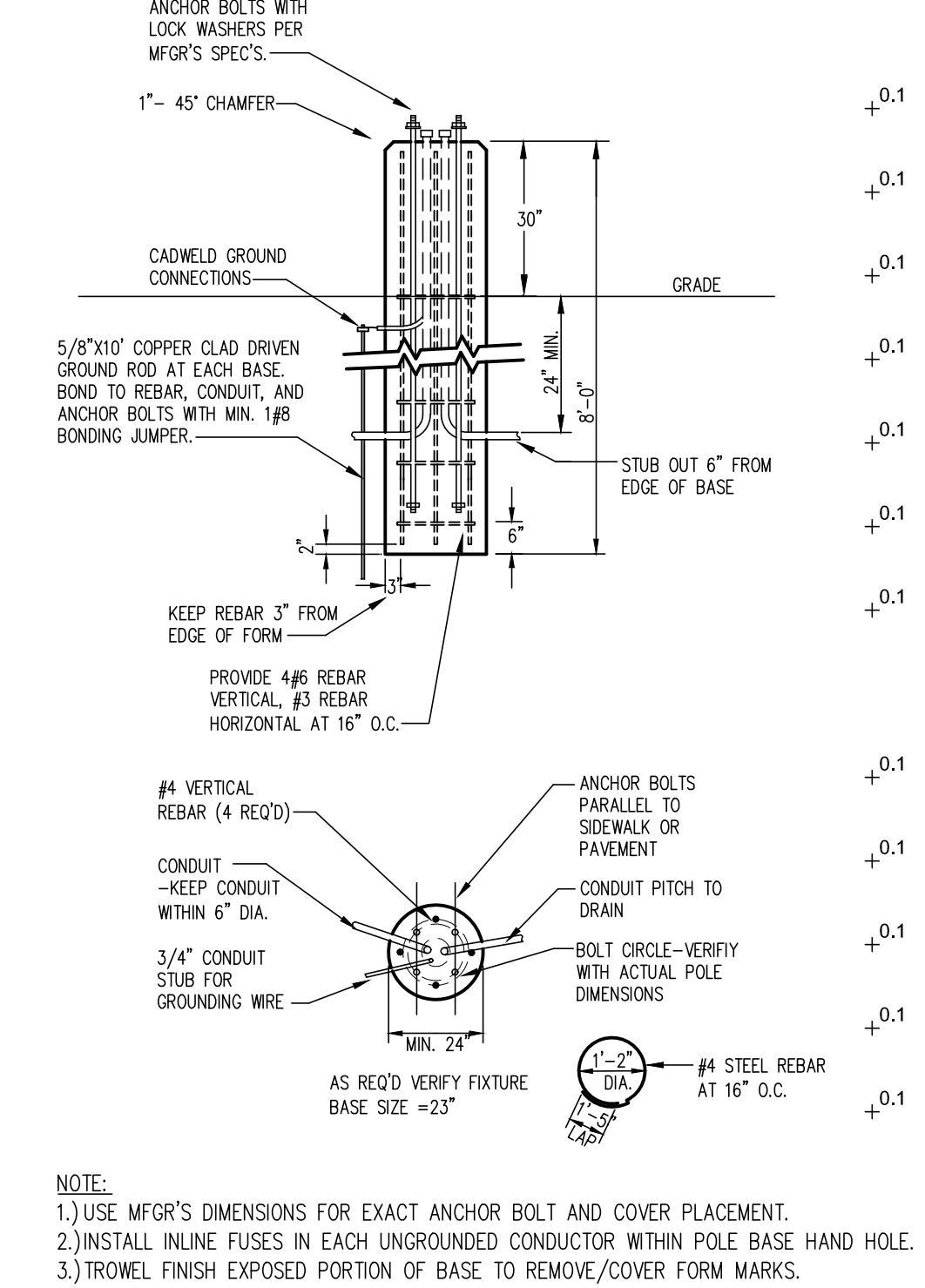
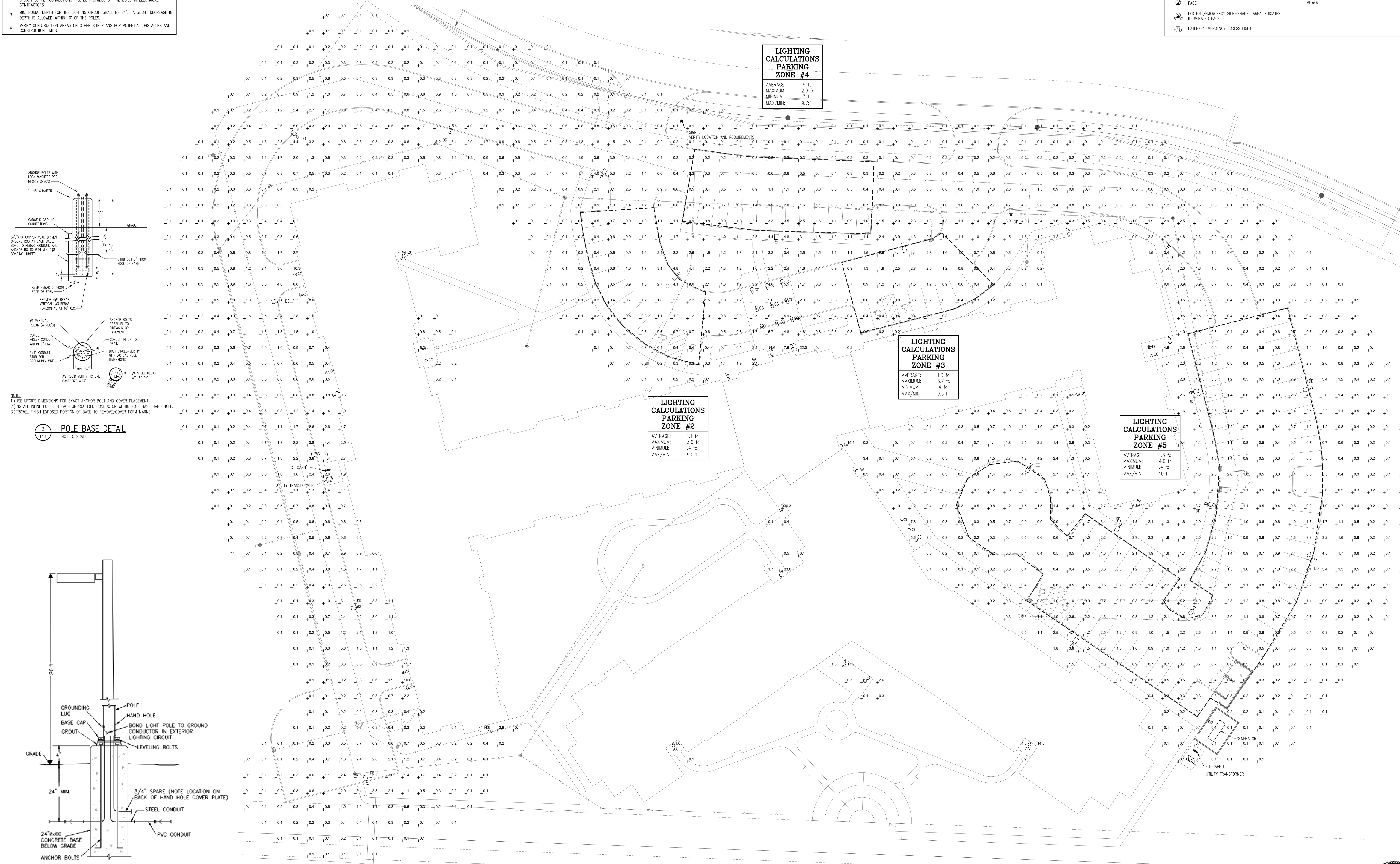
120V DUPLEX OUTLET
120V QUAD OUTLET
240 VOLT RECEPTACLE
DATA/COMMUNICATIONS OUTLET
TELEPHONE OUTLET
TELEVISION OUTLET
DATA/TV COMBO OUTLET
FLOOR OUTLET
JUNCTION BOX
EMERGENCY E-STOP FOR GRILL OR FIREPIT
TIMER FOR GRILL OR FIREPIT
BELOW COUNTER OUTLET
AC ABOVE COUNTER OUTLET

MOTOR CONNECTION
ELECTRICAL DISCONNECT
ELECTRICAL STARTER DISCONNECT
ELECTRICAL CONNECTION W/ NON-FUSED DISCONNECT
ELECTRICAL CONNECTION W/ WEATHER PROOF DISCONNECTS
PANELBOARD
THERMOSTAT MOUNTED AT 48" A.F.F.
SMOKE/CO ALARM
SMOKE ALARM
NITROGEN DIOXIDE DETECTOR
CARBON MONOXIDE DETECTOR
GROUND FAULT CIRCUIT INTERRUPTER
WEATHER PROOF COVER WITH GROUND FAULT CIRCUIT INTERRUPTER

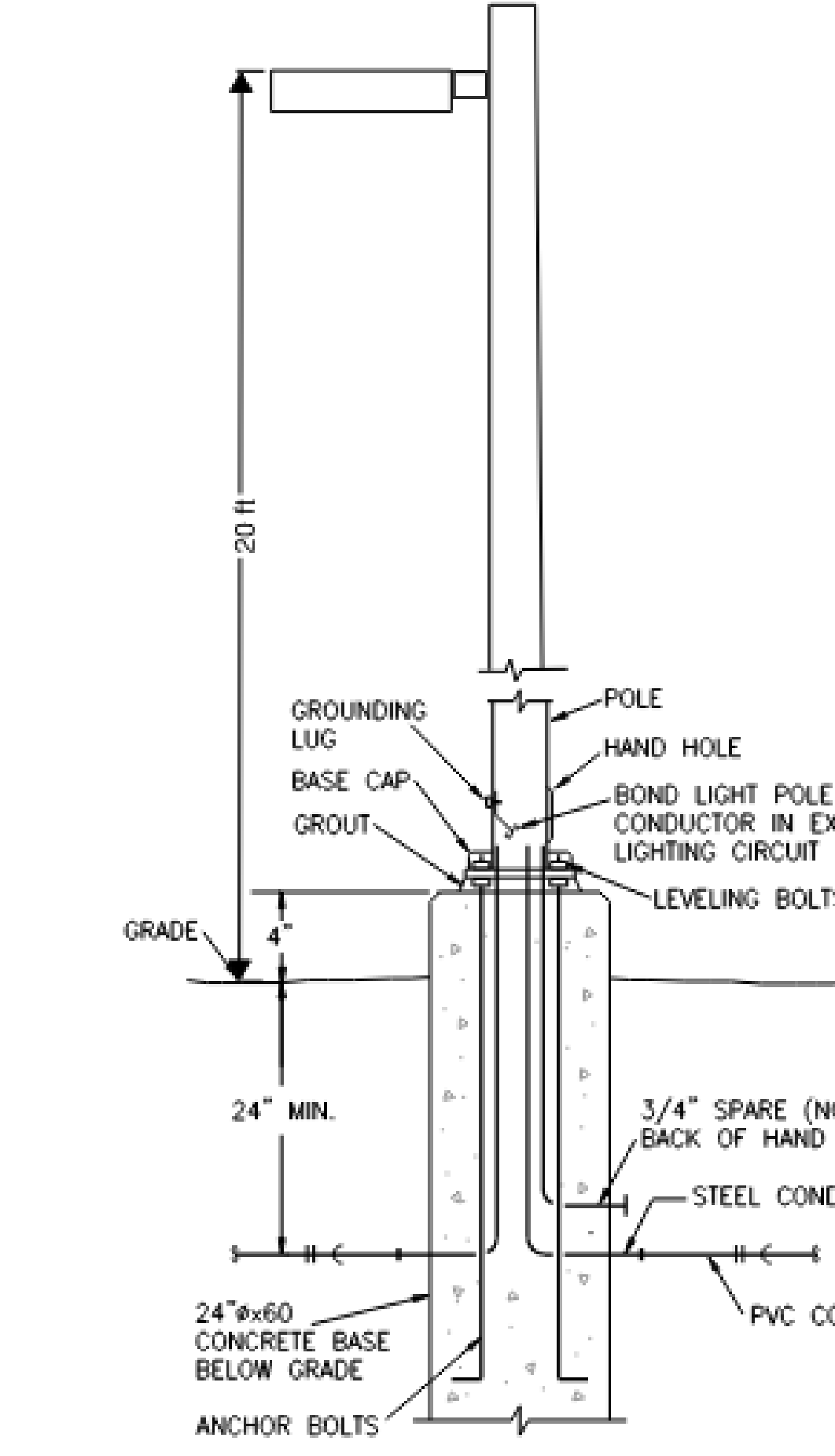
LIGHTING LEGEND

RECESSED 2x4 FIXTURE
RECESSED 2x2 FIXTURE
INDICATES NIGHTLIGHT FIXTURE
INDICATES EMERGENCY FIXTURE
INDICATES EMERGENCY/NIGHTLIGHT FIXTURE
SURFACE MOUNTED 1x4 FIXTURE
HIGH BAY 2x4 FIXTURE
1 SURFACE WALL MOUNTED FIXTURE
1 SURFACE CEILING MOUNT FIXTURE
RECESSED DOWNLIGHT OR DSC FIXTURE
SURFACE WALL MOUNTED FIXTURE
SURFACE MOUNTED FIXTURE
SURFACE MOUNTED PENDANT FIXTURE
OUTSIDE POLE-MOUNT LIGHT FIXTURE
EXTERIOR GROUND MOUNTED LIGHT FIXTURE
EMERGENCY LIGHTING FIXTURE
LED EXIT SIGN-SHADED AREA INDICATES ILLUMINATED FACE
LED EXIT/EMERGENCY SIGN-SHADED AREA INDICATES ILLUMINATED FACE
EXTERIOR EMERGENCY EGRESS LIGHT

SINGLE POLE SWITCH
2-POLE SWITCH
3-WAY SWITCH
4-WAY SWITCH
WALL MOUNTED SINGLE LEVEL OCCUPANCY SENSOR - SEE SCHEDULE
WALL MOUNTED DUAL LEVEL OCCUPANCY SENSOR - SEE SCHEDULE
CEILING MOUNTED OCCUPANCY SENSOR - SEE SCHEDULE
INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
INDICATES LIGHT FIXTURE SWITCH-LESS
INDICATES PANEL AND CIRCUIT NUMBER
INDICATES LIGHT FIXTURE TYPE
INDICATES EXISTING FIXTURE
INDICATES RELOCATED FIXTURE
INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
INDICATES FIXTURE CONTROLLED BY TIMECLOCK
INDICATES FIXTURE ON EMERGENCY OR STANDBY POWER



POLE BASE DETAIL
NOT TO SCALE



LIGHTING POLE BASE DETAIL
NO SCALE

ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

DESIGNED BY: **AC**
CHECKED BY: **AC**
DATE: 07/09/22
REV. NO. 201037416

BERRI ELECTRIC LLC
ELECTRICAL ENGINEERING
1100 S. 10TH AVE. SUITE 100
DENVER, CO 80202
TEL: 303.733.8888
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DATE	REVISION	DESCRIPTION
07/09/22	1	ISSUED FOR PERMIT
07/09/22	2	REVISED PER COMMENTS
07/09/22	3	REVISED PER COMMENTS
07/09/22	4	REVISED PER COMMENTS
07/09/22	5	REVISED PER COMMENTS

DATE: 07/09/22
AS SHOWN
DRAWN BY: **AC**
CHECKED BY: **AC**
JOB NO. 656

RAINTREE VILLAGE
CIRC OF LEE'S SUMMIT
LEE'S SUMMIT, MO
ELECTRICAL SITE PLAN

TIMOTHY J. AUTH
PROFESSIONAL ENGINEER
NO. 2011037416
STATE OF MISSOURI

DRAWING NO. E.1.1