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	C2.00	GENERAL LAYOUT PLAN
	C3.00	TYPICAL ROADWAY & PAVEMENT SECTIONS
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	E1.01	SITE LIGHTING PHOTOMETRICS PLAN
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	E1.03	SITE LIGHTING PHOTOMETRICS PLAN
	E1.03 E2.01	SITE LIGHTING POWER PLAN
	E1.03 E2.01 E2.02	SITE LIGHTING POWER PLAN SITE LIGHTING POWER PLAN
	E1.03 E2.01	SITE LIGHTING POWER PLAN

DEVELOPMENT TEAM CONTACT INFORMATION

OWNER/DEVELOPER	
SCANNELL PROPERTIES #603, LLC	8801 RIVER CROSSING E SUITE 300 INDIANAPOLIS, INDIAN
CIVIL ENGINEER	
MITCH PLEAK OLSSON	7301 W 133RD ST SUITE 200 OVERLAND PARK, KS PH: 913—381—11 mpleak@olsson.c

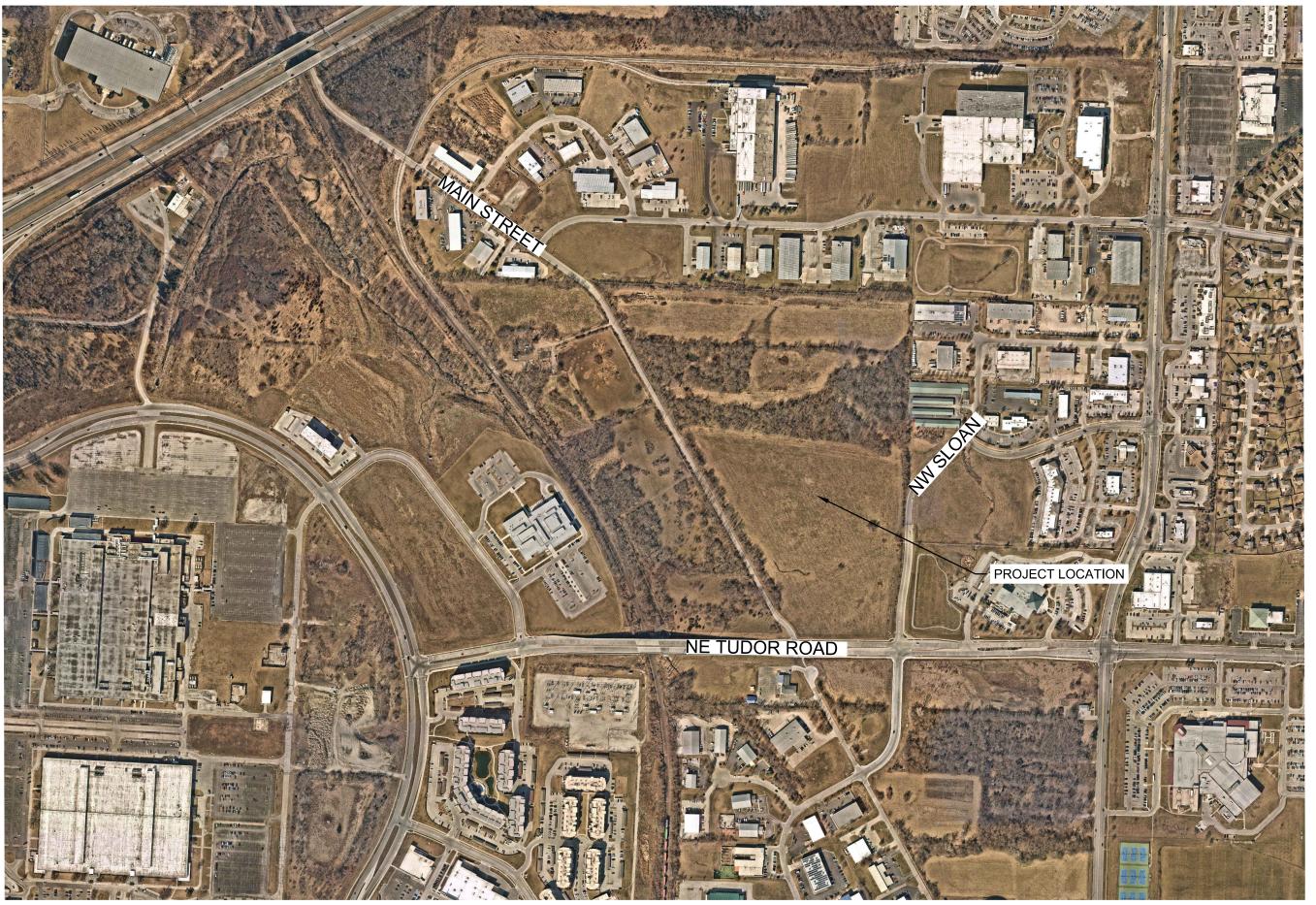
PROPERTY DESCRIPTION

All that part of an unplatted tract of land, together with all that part of North Main Street right of way, all lying in the West Half of Section 31, Township 48 North, Range 31 West, lying in the City of Lee's Summit, Jackson County, Missouri, described by Patrick Ethan Ward, MO PLS-20050071, of Olsson MOLC-366, on October 14, 2021, as follows:

BEGINNING at the Northeast corner of the Southwest Quarter of Section 31, Township 48 North, Range 31 West; thence South 01 degree 59 minutes 47 seconds West, on the East line of said Southwest Quarter, a distance of 65.98 feet to a point on the West line of NW Sloan Street right of way, as established in Document 2013E0075031, said point also lying on a non-tangent curve; thence in a Southerly direction, departing said East line, on said West line and on a curve to the right whose initial tangent bears South 02 degrees 47 minutes 37 seconds West, having a radius of 970.00 feet, through a central angle of 6 degrees 27 minutes 07 seconds, an arc distance of 109.23 feet to a point of tangency; thence South 09 degrees 14 minutes 44 seconds West, continuing on said West line, a distance of 111.80 feet to a point of curvature; thence in a Southerly direction, continuing on said West line and on a curve to the left, having a radius of 1030.00 feet, through a central angle of 7 degrees 14 minutes 57 seconds, an arc distance of 130.32 feet to a point of tangency; thence South 01 degree 59 minutes 47 seconds West, continuing on said West line, a distance of 69.49 feet to a point on the North line of NE Tudor Road right of way, as established in said Document 2013E0075031; thence South 46 degrees 15 minutes 48 seconds West, departing said West line, on said North line, a distance of 46.09 feet to a point; thence North 89 degrees 24 minutes 16 seconds West, continuing on said North line, and on the North line of NW Tudor Road right of way, as established in Document 2013E0075030, a distance of 1249.23 feet to a point on the East line of Union Pacific Railroad right of way, as now established, said point also lying on a non-tangent curve; thence in a Northerly and Northwesterly direction, departing said North line, on said East line and on a curve to the left whose initial tangent bears North 15 degrees 46 minutes 27 seconds West, having a radius of 3203.90 feet, through a central angle of 22 degrees 48 minutes 11 seconds, an arc distance of 1275.12 feet to a point of tangency; thence North 38 degrees 34 minutes 39 seconds West, continuing on said East line, a distance of 738.40 feet to a point of curvature; thence in a Northwesterly direction, continuing on said East line and on a curve to the right, having a radius of 5981.13 feet, through a central angle of 2 degrees 39 minutes 22 seconds, an arc distance of 277.27 feet to a point on the North line of the South Half of the Northwest Quarter of said Section 31, said point also lying on a non-tangent line; thence South 87 degrees 40 minutes 30 seconds East, departing said East line, on said North line, a distance of 884.17 feet to a point on a non-tangent curve; thence in a Southeasterly direction, departing said North line, on a curve to the right whose initial tangent bears South 45 degrees 29 minutes 38 seconds East, having a radius of 544.00 feet, through a central angle of 16 degrees 50 minutes 44 seconds, an arc distance of 159.94 feet to a point of tangency; thence South 28 degrees 38 minutes 55 seconds East a distance of 437.58 feet to a point of curvature; thence in a Southeasterly and Easterly direction, on a curve to the left, having a radius of 476.00 feet, through a central angle of 63 degrees 19 minutes 59 seconds, an arc distance of 526.16 feet to a point of tangency; thence North 88 degrees 01 minute 06 seconds East a distance of 416.85 feet to a point of curvature; thence in an Easterly and Southeasterly direction, on a curve to the right, having a radius of 544.00 feet, through a central angle of 65 degrees 51 minutes 08 seconds, an arc distance of 625.24 feet to a point on a non-tangent line, said point also lying on the East line of said Northwest Quarter; thence South 01 degree 53 minutes 30 seconds West, on said East line, a distance of 338.00 feet to the POINT OF BEGINNING, containing 2,375,437 Square Feet or 54.5325 Acres, more or less.

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS FINAL DEVELOPMENT PLAN

AN UNPLATTED PARCEL IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



NOT TO SCALE

BOULEVARD, NA 46240 STREET KS 66213 1170 .com

UTILITY COMPANIES AND GOVERNING AGENCIES:

AT&T RON GIPFERT

500 E. 8TH STREET, ROOM 1146 KANSAS CITY, MISSOURI 64106 (816) 275–1550 ÈMAIL: RG7910@ATT.COM

EVERGY JEFF R. WILLIAMS- ENGINEER-CENTRAL DESIGN 401 SE BAILEY ROAD LEE'S SUMMIT, MO 64081 (816) 347-4310

ÈMAIL: JEFF.WILLIAMS@KCPL.COM

CONSOLIDATED COMMUNICATIONS JOHN CASTILOW 14859 W. 95TH STREET LENEXA, KS 66215 (913) 322–9785 JOHN.CASTILOW@CONSOLIDATED.COM

GOOGLE FIBER LAUREN MARCUCCI (913) 663–1900 LMARCUCCI@GOOGLE.COM LEE'S SUMMIT R-7 SCHOOL DISTRICT KINZIE WOODERSON 301 NE TUDOR ROAD LEE'S SUMMIT, MO 64086 (816) 986–1050

LEE'S SUMMIT WATER UTILITIES 1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 (816) 969–1900

WASTE WATER LEE'S SUMMIT WATER UTILITIES 1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 (816) 969-1900

SPIRE GAS RICHARD FROCK 3025 SE CLOVER DRIVE LEE'S SUMMIT, MO 64082 (816) 472-3489 RICHARD.FROCK@SPIREENERGY.COM

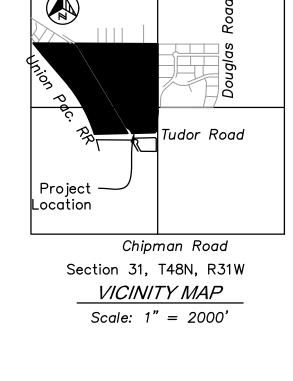
CHARTER/SPECTRUM TROY PREWITT 8221 W. 119TH STREET OVERLAND PARK, KS 66213 (816) 401-3573 TROÝ.PREWITT@CHARTER.COM

Ð	SECTION CORNER
•	SET 1/2" REBAR W/LC 366 CAP
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-Ò	FIRE HYDRANT
X wv	WATER VALVE
WM	WATER METER
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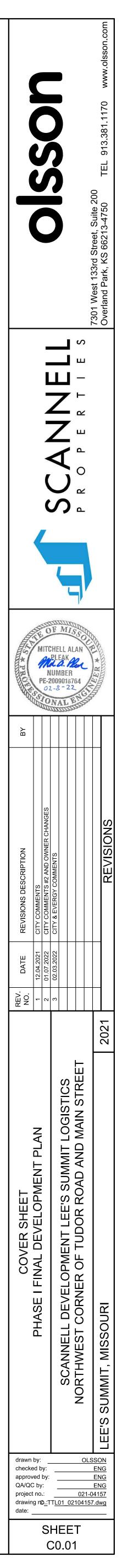
(M)	MEASURED
(P)	PLATTED
	OVERHEAD POWER LINE
	GAS LINE
	UNDERGROUND POWER LINE
	UNDERGROUND TELEPHONE LINE
	UNDERGROUND FIBER OPTIC LINE
	SANITARY SEWER LINE
	STORM LINE
	WATER LINE
(T)	TELEPHONE MANHOLE
TP	TELEPHONE PEDESTAL
ТС	TELEPHONE CABINET
D	STORM SEWER MANHOLE
	SANITARY SEWER CLEANOUT
E	ELECTRIC BOX
В	BREAKER BOX
EM	ELECTRIC METER
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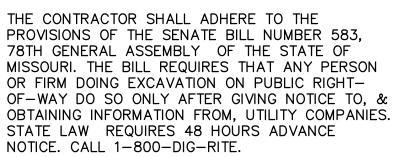
KINZÍE.WOODERSON@LRS7.NET





PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.





GENERAL NOTES: 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483, OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!! 2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER. 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 INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE THE WORK SHOWN IN THESE PLANS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES. 5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES. 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 ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES. 8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED. 9. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES SHOWN TO REMAIN FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN FOR REMOVAL ON THESE PLANS. 10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES. 11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. 12. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE APPLICABLE UTILITY COMPANIES. 13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. 14. ALL DISTURBED AREAS SHALL BE LANDSCAPED, SEEDED OR SODDED, AS SHOWN ON THE LANDSCAPE PLAN. 15. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA STANDARDS AND 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. 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS. 17. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. 18. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION. 19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. 20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED. 21. ALL WATER SERVICE LINES SHALL BE INSTALLED PER LEE'S SUMMIT WATER UTILITIES STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN. 22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. 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. 23. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT. 24. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS. 25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL 26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE. 27. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT. 28. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND 29. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID. 30. CONCRETE PAVEMENT JOINTS SHALL AT A MINIMUM BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS): LONGITUDINAL CONSTRUCTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET, TOOLED TO 1/3 THE SLAB THICKNESS AND OF THE BAR TYPE CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE AND DOWELED WITH SMOOTH DOWELS. TRANSVERSE JOINTS SPACED AT INTERVALS NOT GREATER THAN 15 FEET AND TOOLED TO 1/3 OF THE SLAB THICKNESS. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 3/4" NONEXTRUDING 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. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL. 32. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS. 33. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER. 34. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON, THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME

- CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED 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.

ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.

36. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.

PRODUCTS. IN THE EVEN THIS NOTE IS LESS STRINGENT THAN THE LOCAL JURISDICTION, THE MORE STRINGENT REQUIREMENTS SHOULD APPLY.

DEMOLITION NOTES

- 1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
- 2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS. UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISSOURI ONE CALL AT 1-800-344-7483 IN ADVANCE OF ANY EXCAVATION TO COORDINATE UTILITY LOCATIONS.
- THESE PLANS. 5. REMOVAL AND DISPOSAL OF BUSHES AND TREES SMALLER THAN 12" IN DIAMETER SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR CLEARING AND GRUBBING.
- 6. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OFF SITE BY THE CONTRACTOR.
- 7. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- 8. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
- CONTRACTOR SHALL SAW CUT WHERE NECESSARY.
- PROCEEDING WITH WORK ON THIS CONTRACT.

ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. 12. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIME WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER

AND THE CITY. 13. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

14. DEMOLITION OF BUILDINGS SHALL INCLUDE THE BUILDING STRUCTURE, PAD, FOOTINGS, FOUNDATIONS, BASEMENT WALLS, BASEMENT FLOORS, TRUCK DOCKS, STEPS, DECKS, ALL ITEMS REMAINING IN BUILDING, ALL BUILDING UTILITY SERVICES, SIDEWALKS, AND BACKFILLING AND RESTORING REMAINING EXCAVATIONS, BASEMENTS AND TRENCHES PER SPECIFICATIONS.

15. ALL LIGHT POLE DEMOLITION SHALL INCLUDE FIXTURES, BASES AND WIRING.

HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES. EXPRESSED OR IMPLIED. INCLUDING WITHOUT LIMITATION. ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.

35. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS. OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE

37. CONTRACTOR TO PROVIDE A STRUCTURAL DESIGN FOR ALL STORM STRUCTURES WITH A ("L"+"H") AND ("W" + "H") GREATER THAN 20 FEET. "L" IS THE LENGTH OF THE BOX, "W" IS THE WIDTH OF THE BOX, AND "H" IS THE HEIGHT OF THE BOX. STRUCTURAL DESIGN SHOULD INCLUDE DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER. DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO ANY FABRICATION AND ORDERING OF PIPE

3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND

4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR SHOWN ON

9. ALL SIDEWALK AND PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING PAVEMENT.

10. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DISCONNECTION, DEMOLITION, AND REMOVAL OF SERVICE LINES. CAP ALL LINES BEFORE

11. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES WORK FORCE AND

16. ALL UTILITY DEMOLITION SHALL INCLUDE METERS, MANHOLES AND OTHER STRUCTURES ASSOCIATED WITH THE UTILITY SERVICE LINE.

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKING PAINT: LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES.

- 2. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
- 3. ALLOW PAVING TO AGE FOR 24 HOURS BEFORE MARKING.
- 4. SWEEP AND CLEAN SURFACE.
- 5. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS WITH UNIFORM STRAIGHT EDGES. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS. 6. THIS WORK SHALL CONSIST OF FURNISHING AND APPLYING PAINT ON PAVEMENT SURFACES, IN TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS, IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
- 7. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- 8. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
- 9. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT, COLORS TO MATCH THE EXISTING ADJACENT INSTALLATIONS. USE FLAT BLACK, WHITE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING: A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE WHITE COLOR. B. PORTLAND CEMENT CONCRETE PAVING: USE YELLOW COLOR.
- C. HANDICAPPED ACCESSIBLE PARKING AND ENTRYWAYS: USE WHITE COLOR WITH WHITE STRIPES. D. PROVIDE PAINTED CURBS AT FIRE LANE DESIGNATIONS PER FIRE MARSHAL REQUIREMENTS.
- 10. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN. 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.
- 11. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. HANDICAPPED PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.

EROSION & SEDIMENT CONTROL NOTES

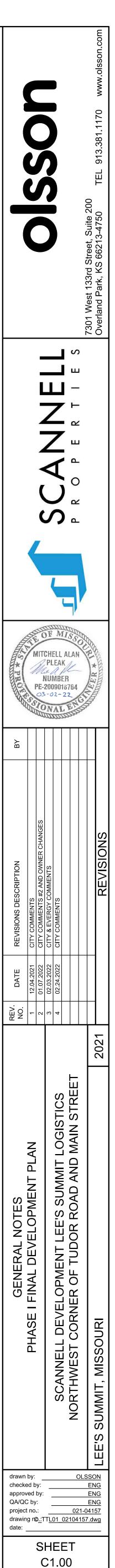
- 1. PRIOR TO LAND DISTURBANCE ACTIVITIES. THE FOLLOWING SHALL OCCUR: A. DELINEATE THE OUTER LIMITS OF ANY NATURAL STREAM CORRIDOR DESIGNATED IN ACCORDANCE WITH THE CITY'S DESIGN AND CONSTRUCTION MANUAL SHALL BE APPLICABLE TO DEVELOPMENT IN THE ADP.
- B. CONSTRUCT A STABILIZED ENTRANCE/PARKING/DELIVERY AREA.
- C. INSTALL PERIMETER CONTROLS AND REQUEST THE INSPECTION OF THE PRECONSTRUCTION EROSION AND SEDIMENT CONTROL MEASURES DESIGNATED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. LAND DISTURBANCE WORK SHALL NOT PROCEED UNTIL THERE IS A SATISFACTORY INSPECTION.
- D. IDENTIFY THE LIMITS OF CONSTRUCTION ON THE GROUND WITH EASILY RECOGNIZABLE INDICATIONS SUCH AS CONSTRUCTION STAKING, CONSTRUCTION FENCING, AND PLACEMENT OF PHYSICAL BARRIERS OR OTHER MEANS ACCEPTABLE TO THE CITY INSPECTOR AND IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
- 2. THE SITE SHALL COMPLY WITH ALL REQUIREMENTS OF THE MISSOURI WATER POLLUTION CONTROL AND NPDES STORMWATER RUNOFF FROM CONSTRUCTION SITES GENERAL PERMIT, AND LEE'S SUMMIT STANDARDS AND SPECIFICATIONS LIMITED TO:
- A. STABILIZATION OF ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS.
- B. INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED TO MEET OR EXCEED THE MINIMUM INSPECTION FREQUENCY IN THE MISSOURI GENERAL PERMIT. AT A MINIMUM, INSPECTIONS SHALL BE PERFORMED DURING ALL PHASES OF CONSTRUCTION AT THE FOLLOWING INTERVALS: I AT LEAST ONCE EVERY 14 DAYS II BY THE END OF THE NEXT DAY, EXCLUDING WEEKENDS AND FEDERAL HOLIDAYS, AFTER A RAIN EVENT OF ½ INCH OR MORE.
- C. AN INSPECTION LOG SHALL BE MAINTAINED AND SHALL BE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
- D. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE ROUTINELY UPDATED PER THE SWPPP AND NOI TO SHOW ALL CHANGES AND AMENDMENTS TO THE PLAN. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE KEPT ON SITE AND MADE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
- 3. UNLESS OTHERWISE NOTED IN THE PLANS. ALL SEEDING MUST CONFORM TO THE CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS.
- 4. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED FOR THE DURATION OF A PROJECT. ALL INSTALLED EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A MANNER THAT PRESERVES THEIR EFFECTIVENESS. IF THE CITY DETERMINES THAT THE BMPS IN PLACE DO NOT PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL AT ANY TIME DURING THE PROJECT ADDITIONAL OF A TERMATE MEASURES. THAT PROVIDE EFFECTIVE CONTROL SHALL BE REQUIRED. FAILURE TO DO SO IS A VIOLATION OF THE PROVISIONS OF CITY OF LEE'S SUMMIT STANDARDS AND REGULATIONS.
- 5. SILT FENCES AND SEDIMENT CONTROL BMPS WHICH ARE SHOWN ALONG THE BACK OF CURB MUST BE INSTALLED WITHIN TWO WEEKS OF CURB BACKFILL AND PRIOR TO PLACEMENT OF BASE ASPHALT. EXACT LOCATIONS OF THESE EROSION CONTROL METHODS MAY BE FIELD ADJUSTED TO MINIMIZE CONFLICTS WITH UTILITY CONSTRUCTION; HOWEVER, ANTICIPATED DISTURBANCE BY UTILITY CONSTRUCTION SHALL NOT DELAY INSTALLATION.
- 6. THE ABOVE REQUIREMENTS ARE THE RESPONSIBILITY OF THE PERMITTEE FOR THE SITE. RESPONSIBILITY MAY BE TRANSFERRED TO ANOTHER PARTY BY THE PERMITEEE ACCORDING TO THE SWPPP, BUT THE PERMITTEE SHALL REMAIN LIABLE BY THE CITY OF LEE'S SUMMIT IF ANY OF THE ABOVE CONDITIONS ARE NOT MET.
- 7. APWA EROSION AND SEDIMENT CONTROL/BMPS USED ON THE PROJECT SHALL BE CONSTRUCTED, INSPECTED, AND MAINTAINED AT A MINIMUM TO APWA STANDARDS AND SPECIFICATIONS.
- 8. THE SITE SHALL COMPLY WITH ALL REQUIREMENTS OF THE MISSOURI WATER POLLUTION CONTROL AND NPDES STORMWATER RUNOFF FROM CONSTRUCTION SITES GENERAL PERMIT, OTHER PERMIT REQUIREMENTS, AND CITY OF LEE'S SUMMIT.
- 9. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO BIDDING, SATISFY HIMSELF AS TO THE CONDITION OF EXISTING BMPS INCLUDING SEDIMENT TRAPS AND BASINS UNDER CURRENT OPERATION/NOI FROM THE DEMOLITION PLANS CONSTRUCTION DOCUMENTS. AT NOTICE TO PROCEED, BMPS, EXISTING PERMITS, SWPPP OPERATIONS, AND MAINTENANCE BECOMES THE CONTRACTOR'S RESPONSIBILITY.

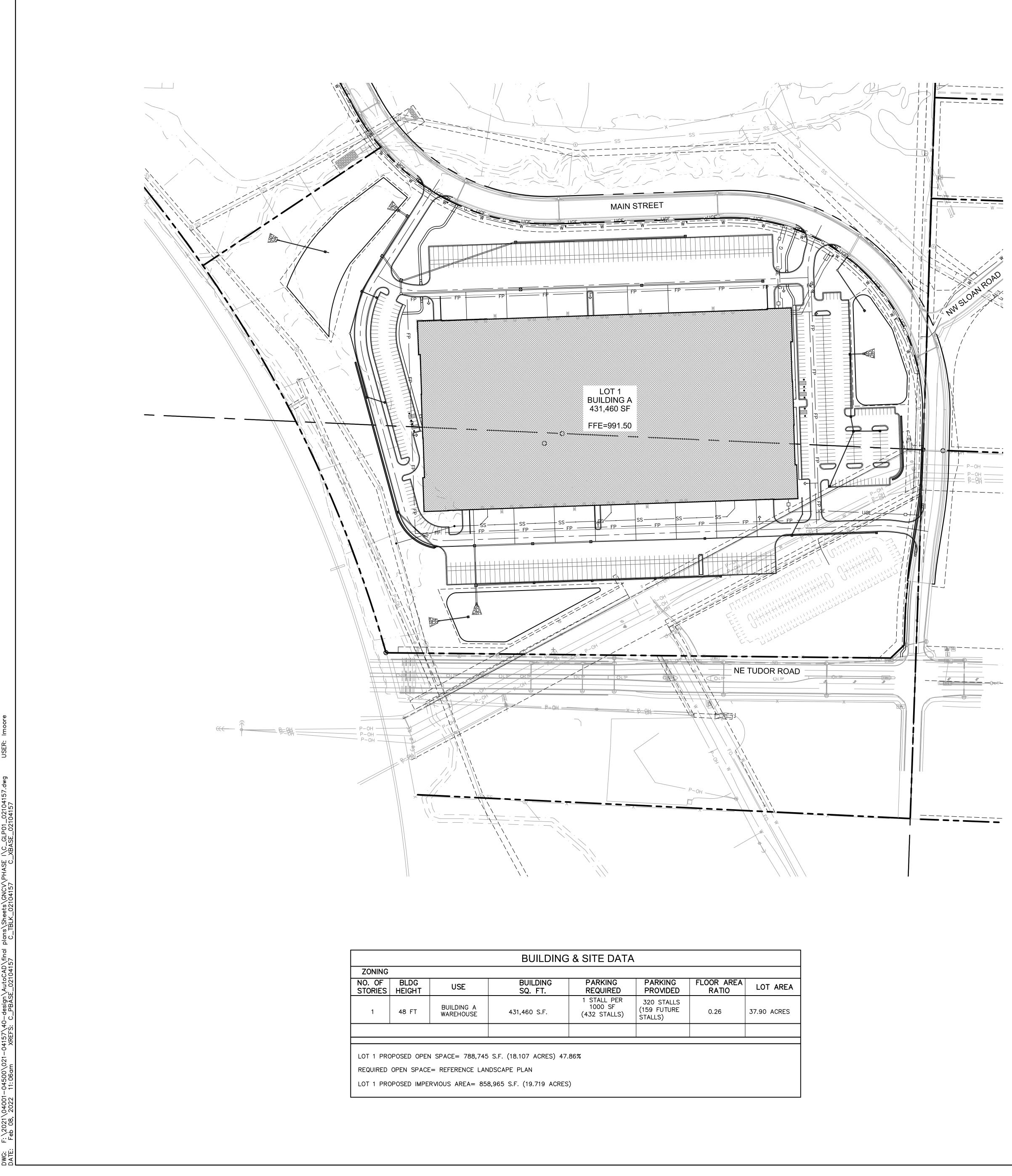
SANITARY SEWER NOTES

- 1. ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- 2. INSTALL 6" ONE-WAY CLEANOUT 10' FROM BUILDING OR AS NOTED ON PLANS.
- 3. NO FOUNDATION DRAINS ARE PLANNED FOR THIS PROJECT. DOWNSPOUTS SHALL NOT BE CONNECTED TO SANITARY SEWER. DOWNSPOUTS WILL DISCHARGE AT GRADE USING SPLASHBLOCK OR TO PROPOSED STORM SEWER.
- 4. TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE. 5. IN THE EVENT OF WORK IN OR ON THE SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
- 6. 90-DEGREE TURNS TO BE ACCOMPLISHED WITH TWO 45-DEGREE BENDS WITH A MINIMUM OF ONE FOOT OF PIPE BETWEEN THE 45-DEGREE BENDS.
- 7. FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
- 8. SANITARY SERVICE LINES SHALL BE INSTALLED BY BUILDING PLUMBER AND IN ACCORDANCE WITH THE CURRENT SERVICE LINE DESIGN AND CONSTRUCTION STANDARDS. 9. ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
- 10. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
- 11. MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
- 12. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER SERVICE LINE.

AMERICAN WITH DISABILITIES ACT. (ADA)

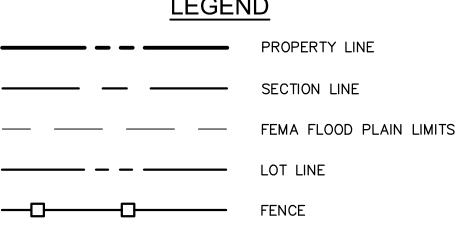
- 1. ADA PARKING SPACES, MARKINGS AND ACCESS TO THE BUILDING(S) SHALL COMPLY WITH ADA.
- 2. ALL CONSTRUCTION TRAFFIC, TEMPORARY TRAFFIC CONTROL DEVICES, AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.





BUILDING & SITE DATA					
			_		
USE	BUILDING SQ. FT.	PARKING REQUIRED	PARKING PROVIDED	FLOOR AREA RATIO	LOT AREA
BUILDING A WAREHOUSE	431,460 S.F.	1 STALL PER 1000 SF (432 STALLS)	320 STALLS (159 FUTURE STALLS)	0.26	37.90 ACRES
SPACE= 788,745 S.F. (18.107 ACRES) 47.86%					
REFERENCE LANDSCAPE PLAN					
/IOUS AREA= 858,965 S.F. (19.719 ACRES)					

LEGEND



PROPERTY DESCRIPTION

All that part of an unplatted tract of land, together with all that part of North Main Street right of way, all lying in the West Half of Section 31, Township 48 North, Range 31 West, lying in the City of Lee's Summit, Jackson County, Missouri, described by Patrick Ethan Ward, MO PLS-20050071, of Olsson MOLC-366, on October 14, 2021, as follows:

BEGINNING at the Northeast corner of the Southwest Quarter of Section 31, Township 48 North, Range 31 West; thence South 01 degree 59 minutes 47 seconds West, on the East line of said Southwest Quarter, a distance of 65.98 feet to a point on the West line of NW Sloan Street right of way, as established in Document 2013E0075031, said point also lying on a non-tangent curve; thence in a Southerly direction, departing said East line, on said West line and on a curve to the right whose initial tangent bears South 02 degrees 47 minutes 37 seconds West, having a radius of 970.00 feet, through a central angle of 6 degrees 27 minutes 07 seconds, an arc distance of 109.23 feet to a point of tangency; thence South 09 degrees 14 minutes 44 seconds West, continuing on said West line, a distance of 111.80 feet to a point of curvature; thence in a Southerly direction, continuing on said West line and on a curve to the left, having a radius of 1030.00 feet, through a central angle of 7 degrees 14 minutes 57 seconds, an arc distance of 130.32 feet to a point of tangency; thence South 01 degree 59 minutes 47 seconds West, continuing on said West line, a distance of 69.49 feet to a point on the North line of NE Tudor Road right of way, as established in said Document 2013E0075031; thence South 46 degrees 15 minutes 48 seconds West, departing said West line, on said North line, a distance of 46.09 feet to a point; thence North 89 degrees 24 minutes 16 seconds West, continuing on said North line, and on the North line of NW Tudor Road right of way, as established in Document 2013E0075030, a distance of 1249.23 feet to a point on the East line of Union Pacific Railroad right of way, as now established, said point also lying on a non-tangent curve; thence in a Northerly and Northwesterly direction, departing said North line, on said East line and on a curve to the left whose initial tangent bears North 15 degrees 46 minutes 27 seconds West, having a radius of 3203.90 feet, through a central angle of 22 degrees 48 minutes 11 seconds, an arc distance of 1275.12 feet to a point of tangency; thence North 38 degrees 34 minutes 39 seconds West, continuing on said East line, a distance of 738.40 feet to a point of curvature; thence in a Northwesterly direction, continuing on said East line and on a curve to the right, having a radius of 5981.13 feet, through a central angle of 2 degrees 39 minutes 22 seconds, an arc distance of 277.27 feet to a point on the North line of the South Half of the Northwest Quarter of said Section 31, said point also lying on a non-tangent line; thence South 87 degrees 40 minutes 30 seconds East, departing said East line, on said North line, a distance of 884.17 feet to a point on a non-tangent curve; thence in a Southeasterly direction, departing said North line, on a curve to the right whose initial tangent bears South 45 degrees 29 minutes 38 seconds East, having a radius of 544.00 feet, through a central angle of 16 degrees 50 minutes 44 seconds, an arc distance of 159.94 feet to a point of tangency; thence South 28 degrees 38 minutes 55 seconds East a distance of 437.58 feet to a point of curvature; thence in a Southeasterly and Easterly direction, on a curve to the left, having a radius of 476.00 feet, through a central angle of 63 degrees 19 minutes 59 seconds, an arc distance of 526.16 feet to a point of tangency; thence North 88 degrees 01 minute 06 seconds East a distance of 416.85 feet to a point of curvature; thence in an Easterly and Southeasterly direction, on a curve to the right, having a radius of 544.00 feet, through a central angle of 65 degrees 51 minutes 08 seconds, an arc distance of 625.24 feet to a point on a non-tangent line, said point also lying on the East line of said Northwest Quarter; thence South 01 degree 53 minutes 30 seconds West, on said East line, a distance of 338.00 feet to the POINT OF BEGINNING, containing 2,375,437 Square Feet or 54.5325 Acres, more or less.

PROPERTY OWNER/ DEVELOPER SCANNELL PROPERTIES #603, LLC 8801 RIVER CROSSING BLVD, SUITE 300

INDIANAPOLIS, IN 46240 PH: 317-218-1648

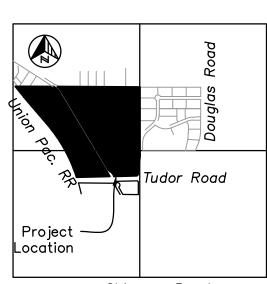
ENGINEER/ LANDSCAPE ARCHITECT

OLSSON 7301 W. 133RD STREET, SUITE 200 OVERLAND PARK, KS 66213 PH: 913-381-1170 F: 913-381-1174

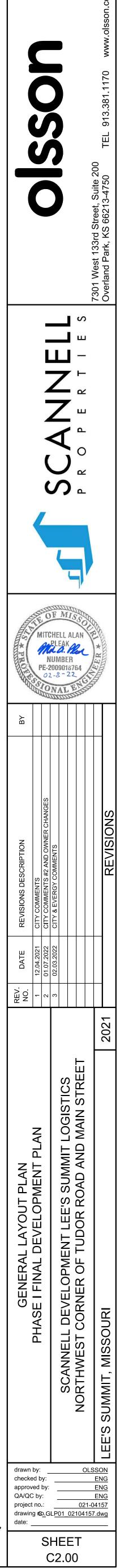
PROPOSED SITE USE INDUSTRIAL

EXISTING & PROPOSED ZONING

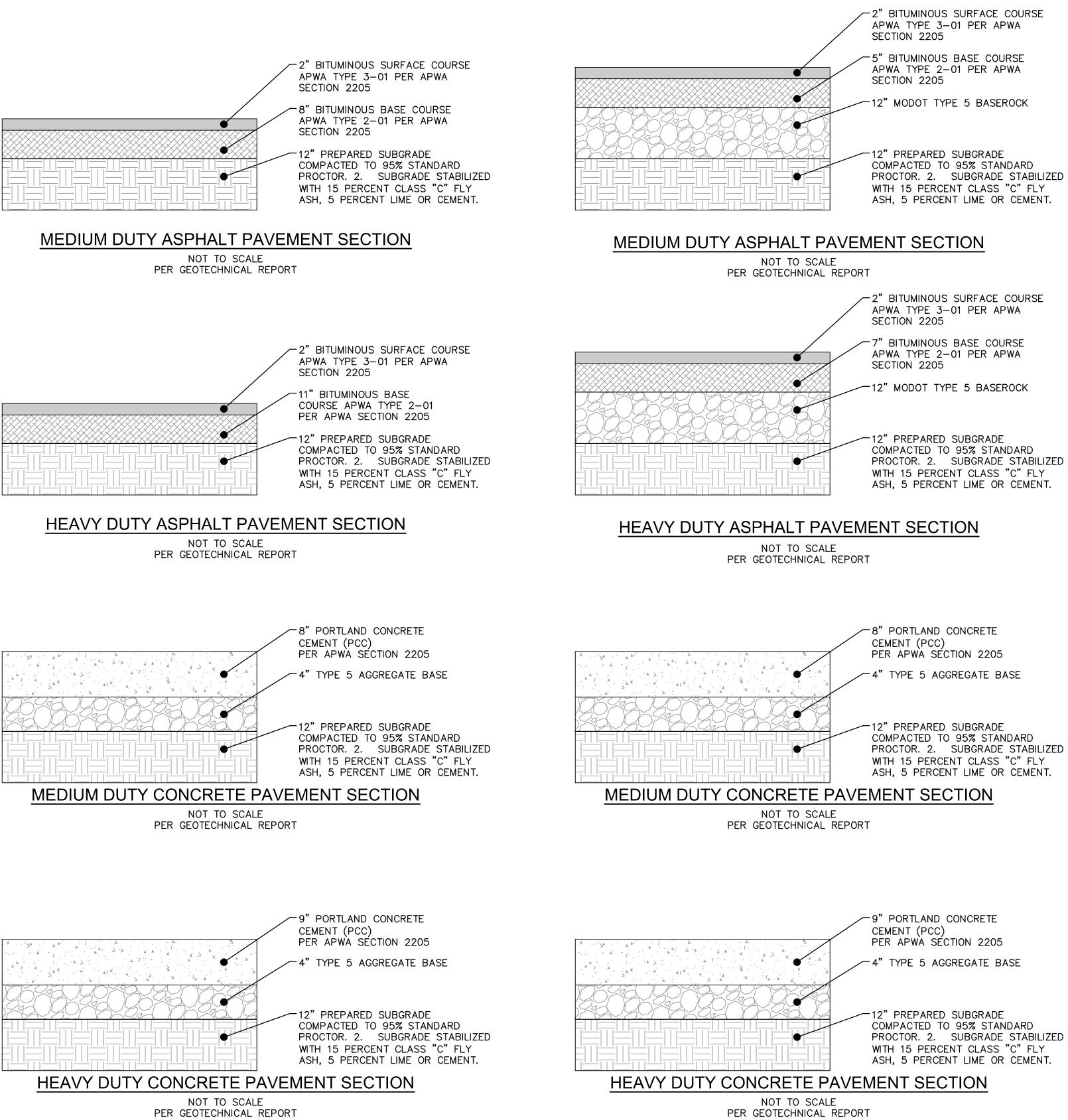
SITE AREA NET SITE AREA= 3,439,837 SQ. FT., (78.9678 AC±)



Chipman Road Section 31, T48N, R31W VICINITY MAP Scale: 1" = 2000'



100' SCALE IN FEET

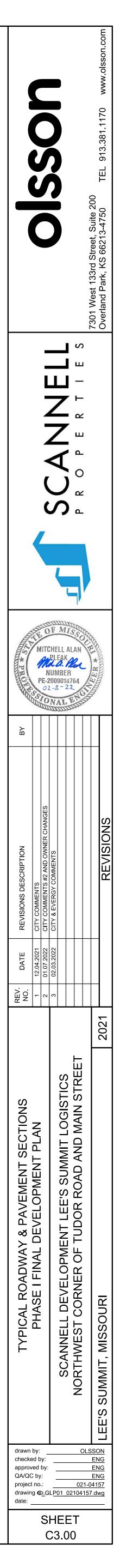


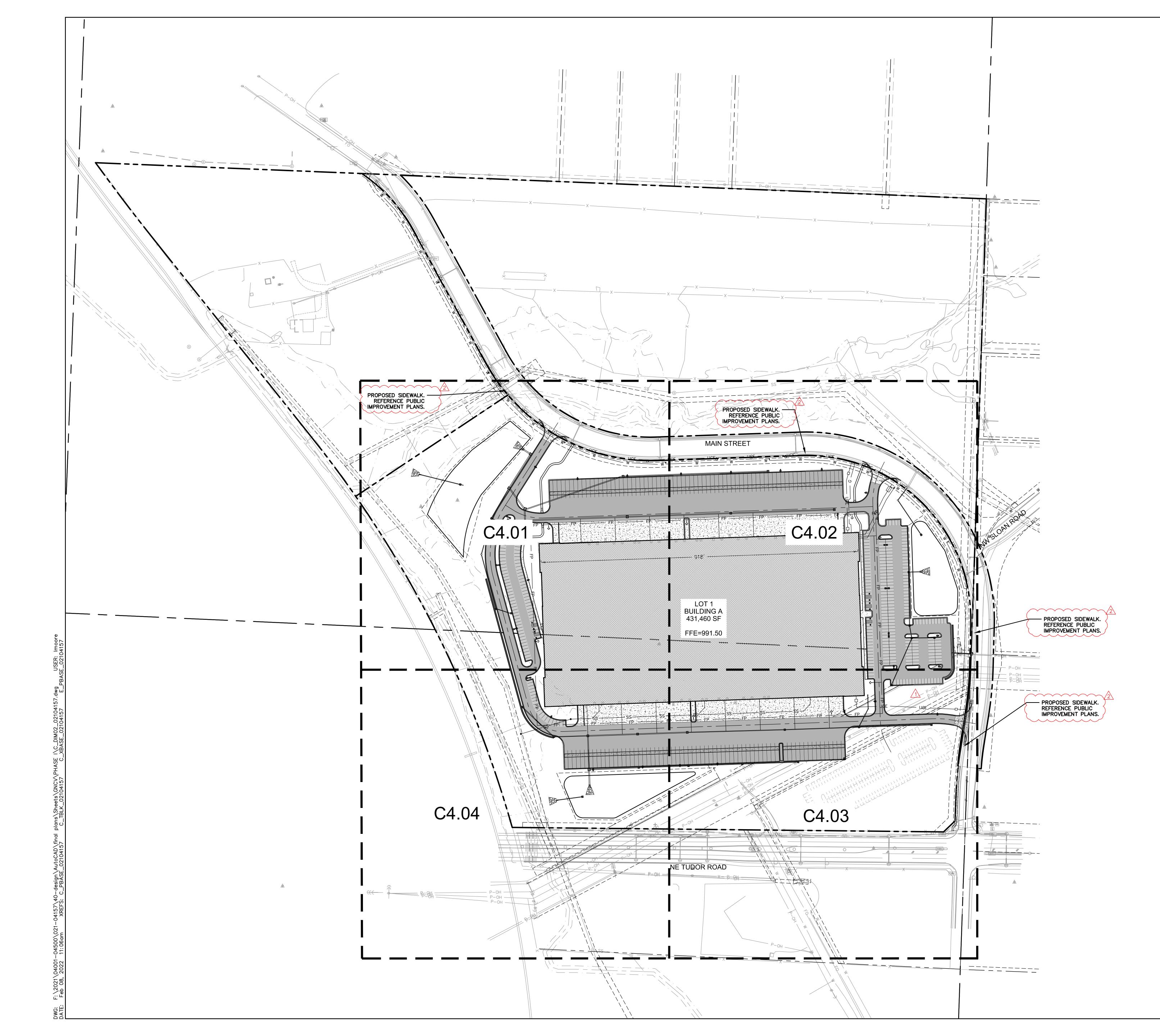
PER GEOTECHNICAL REPORT

1

NOTE

- 1. ALL CONSTRUCTION, SITE PREPARATION, GRADING, AND EXCAVATION PROCEDURES SHALL CONFORM TO RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT INCLUDING ADDENDUMS. CONTRACTOR SHALL CONTACT ENGINEER WITH ANY DISCREPANCIES OR CONCERNS BASED ON ACTUAL SITE CONDITIONS. 2. GEOTECHNICAL REPORT GOVERNS ONLY IF IT MEETS OR EXCEEDS CITY
- REQUIREMENTS. 3. SUBGRADE STABILIZED WITH 15 PERCENT CLASS "C" FLY ASH, 5 PERCENT LIME
- OR CEMENT.

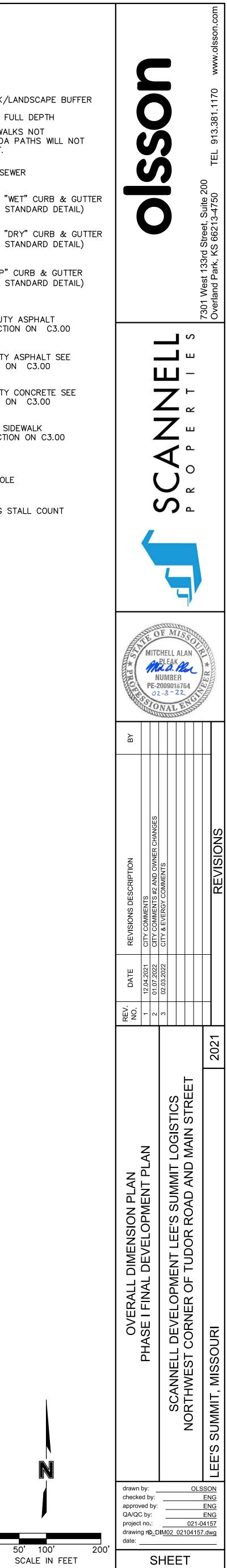


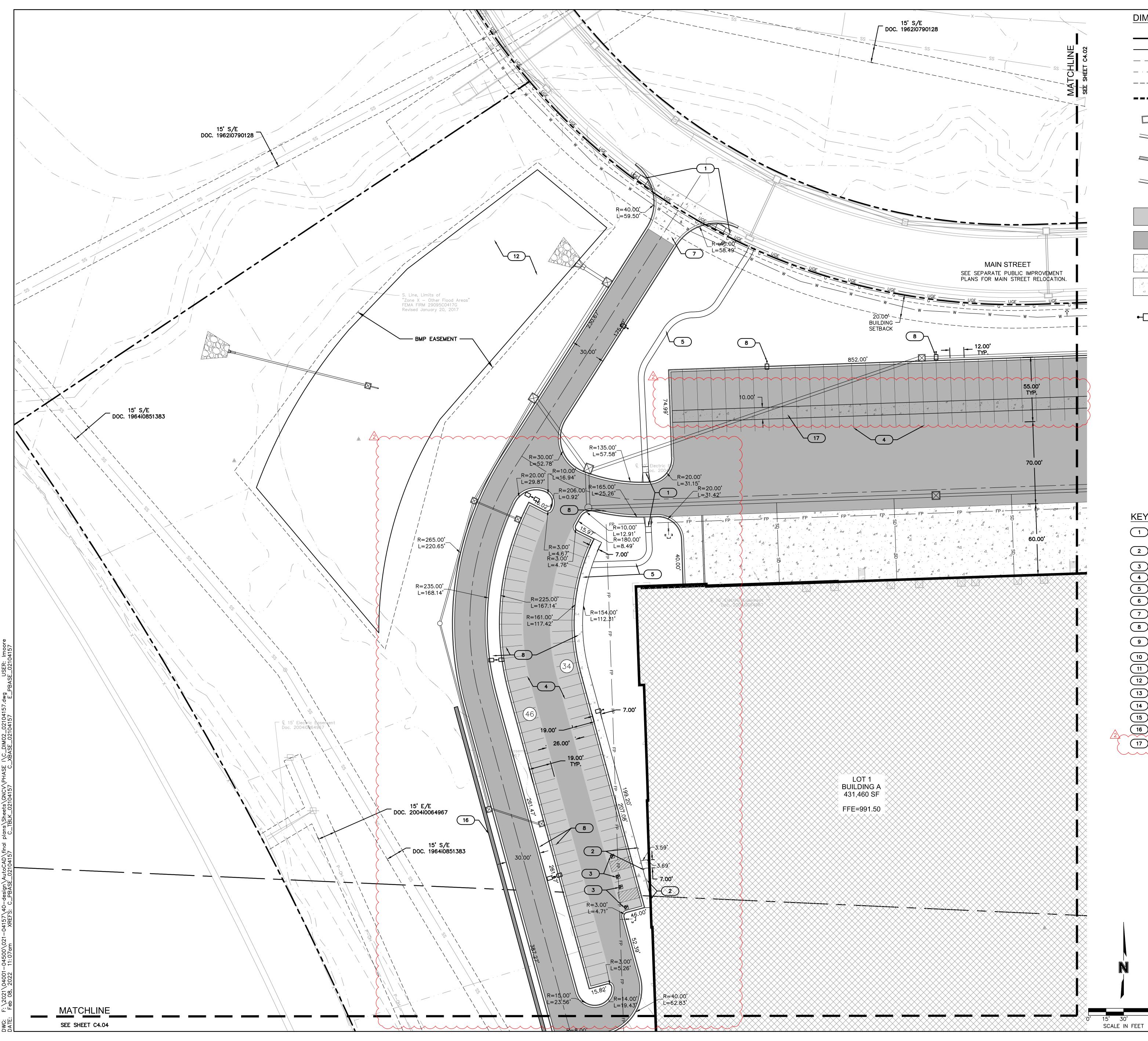




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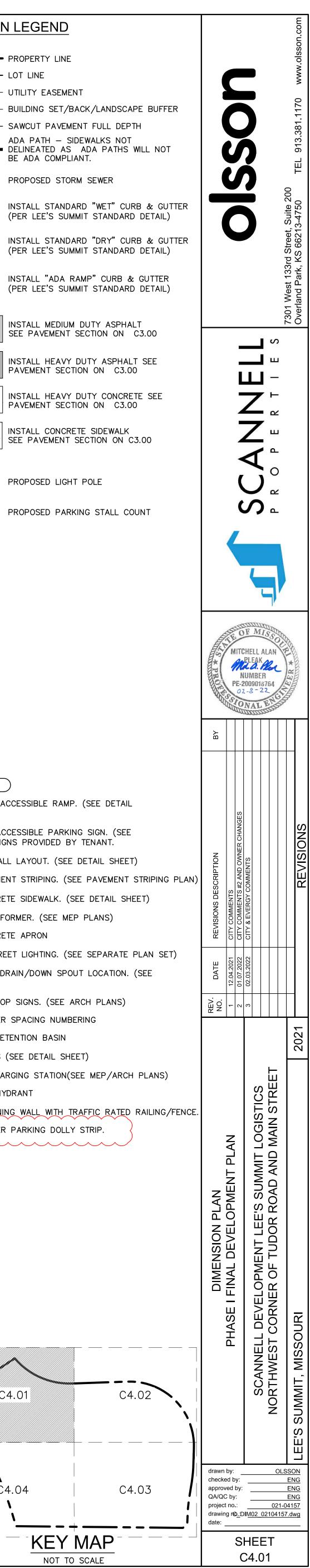


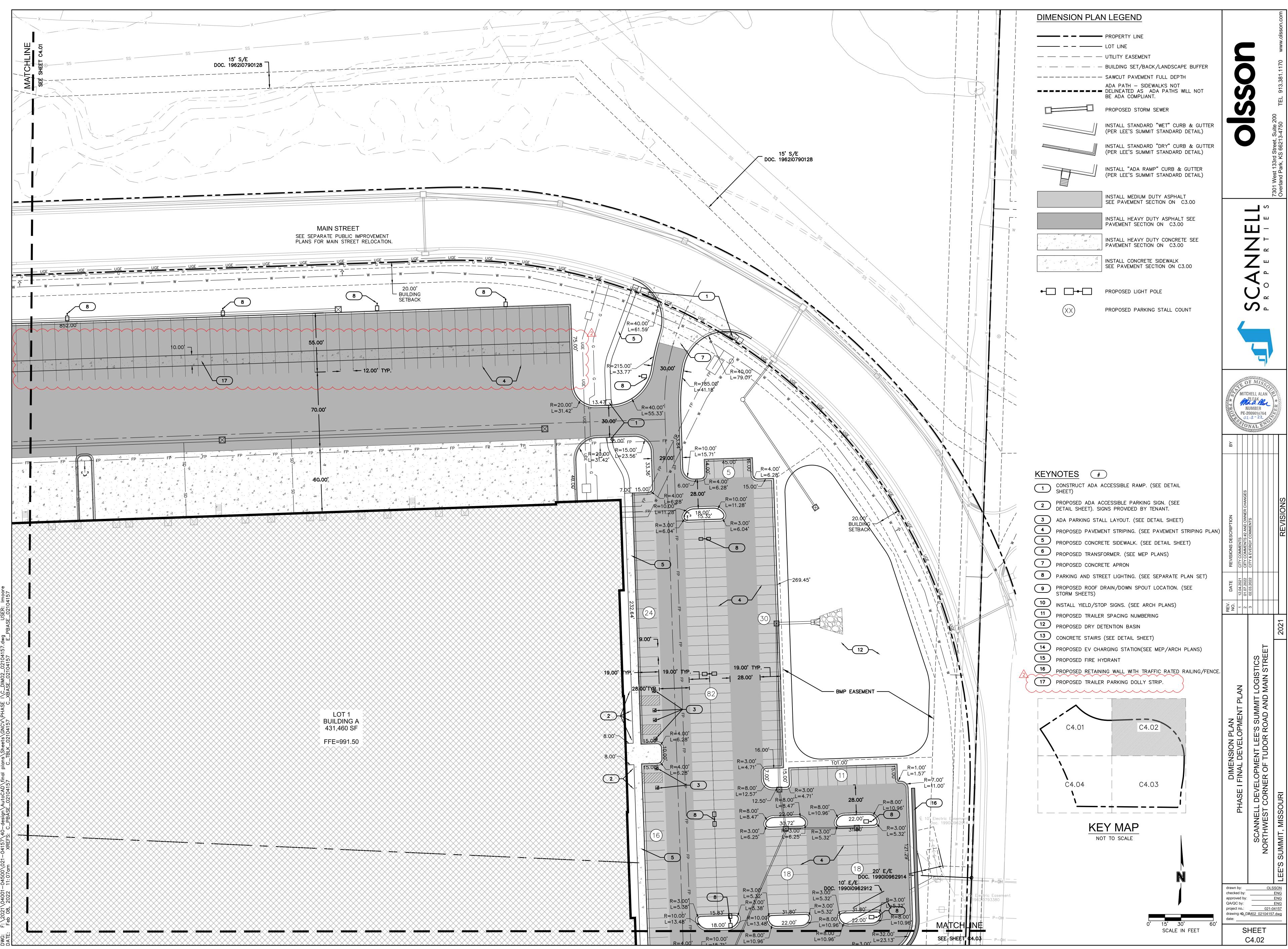


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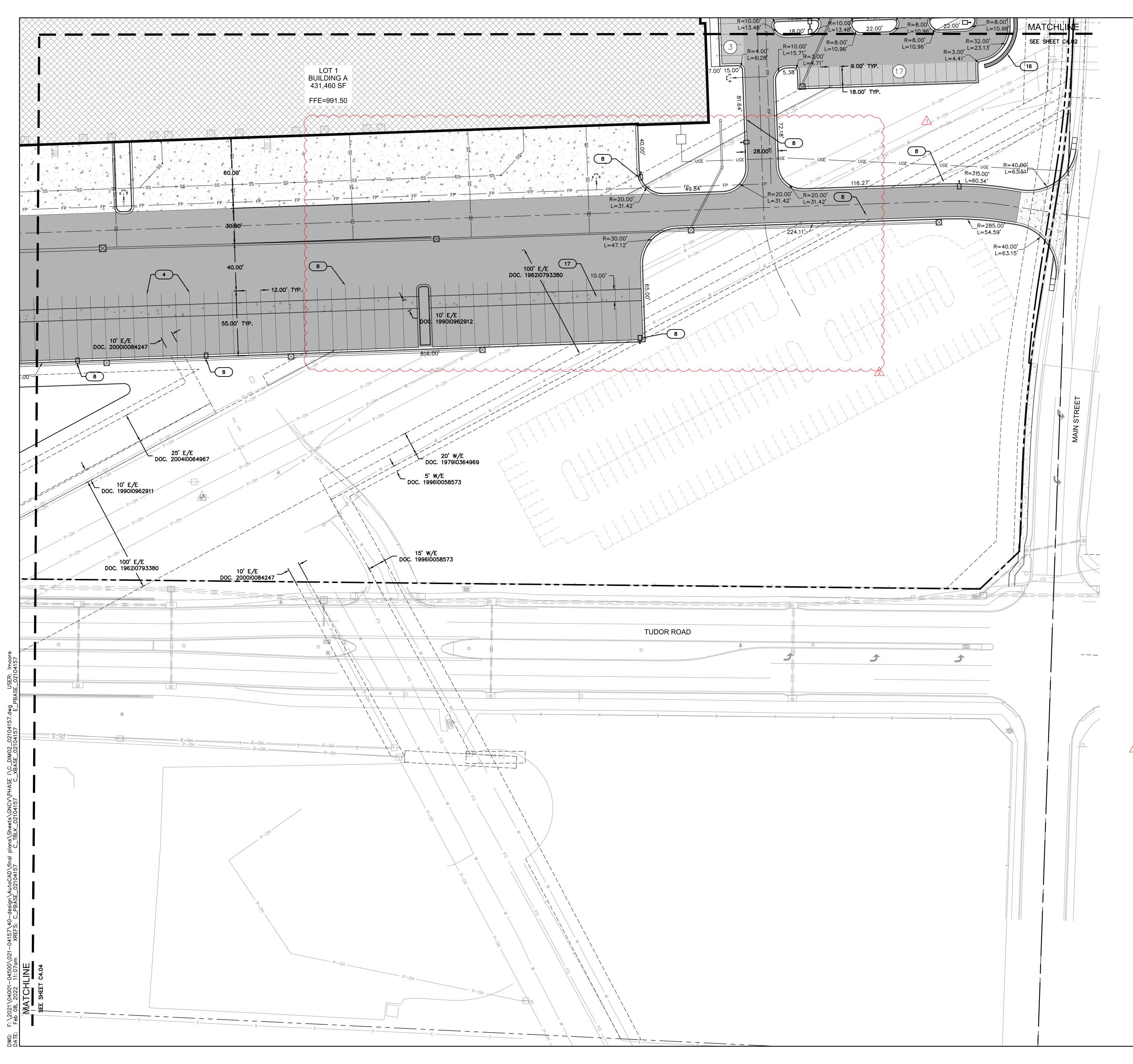
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KEYNOTES # CONSTRUCT ADA ACCESSIBLE RAMP. (SEE DETAILSHEET) 2 PROPOSED ADA ACCESSIBLE PARKING SIGN. (SEE DETAIL SHEET). SIGNS PROVIDED BY TENANT. 3 ADA PARKING STALL LAYOUT. (SEE DETAIL SHEET) 4 PROPOSED PAVEMENT STRIPING. (SEE PAVEMENT STRIPING PLAN) 5 PROPOSED CONCRETE SIDEWALK. (SEE DETAIL SHEET) 6 PROPOSED TRANSFORMER. (SEE MEP PLANS) 7 PROPOSED CONCRETE APRON 8 PARKING AND STREET LIGHTING. (SEE SEPARATE PLAN SET) 9 PROPOSED ROOF DRAIN/DOWN SPOUT LOCATION. (SEE STORM SHEETS) 10 INSTALL YIELD/STOP SIGNS. (SEE ARCH PLANS) 11 PROPOSED TRAILER SPACING NUMBERING 12 PROPOSED DRY DETENTION BASIN 13 CONCRETE STAIRS (SEE DETAIL SHEET) 14 PROPOSED EV CHARGING STATION(SEE MEP/ARCH PLANS) 15 PROPOSED FIRE HYDRANT 16 PROPOSED RETAINING WALL WITH TRAFFIC RATED RAILING/FENCE. 17 PROPOSED TRAILER PARKING DOLLY STRIP. _____





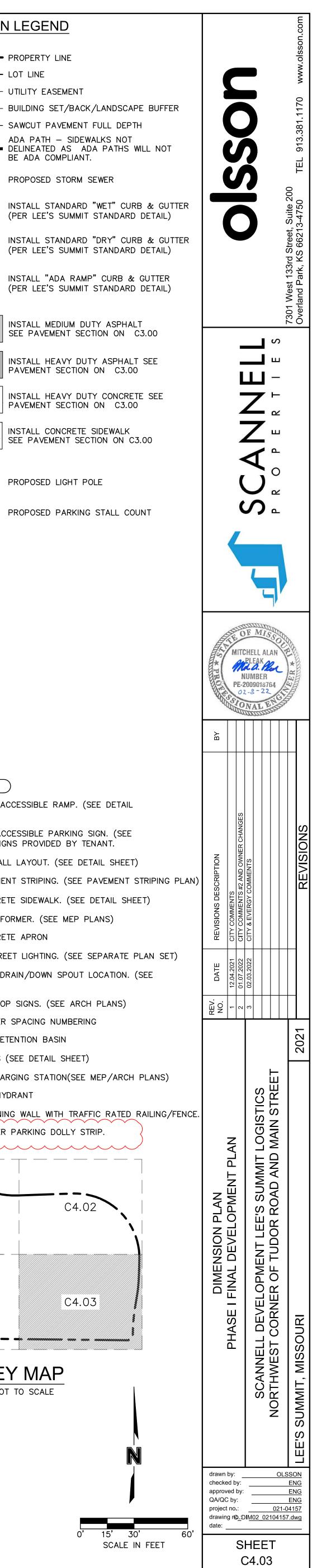
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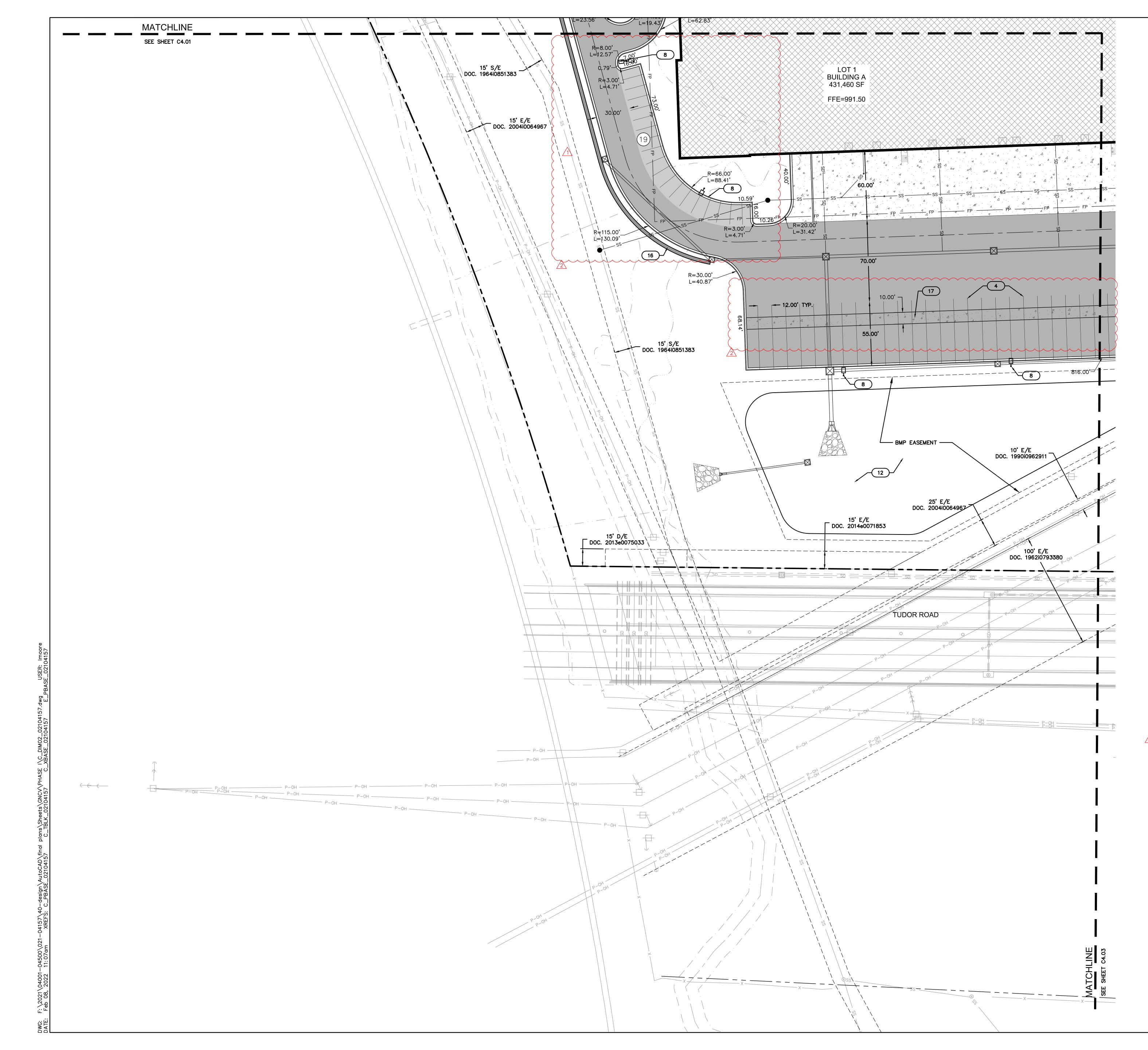


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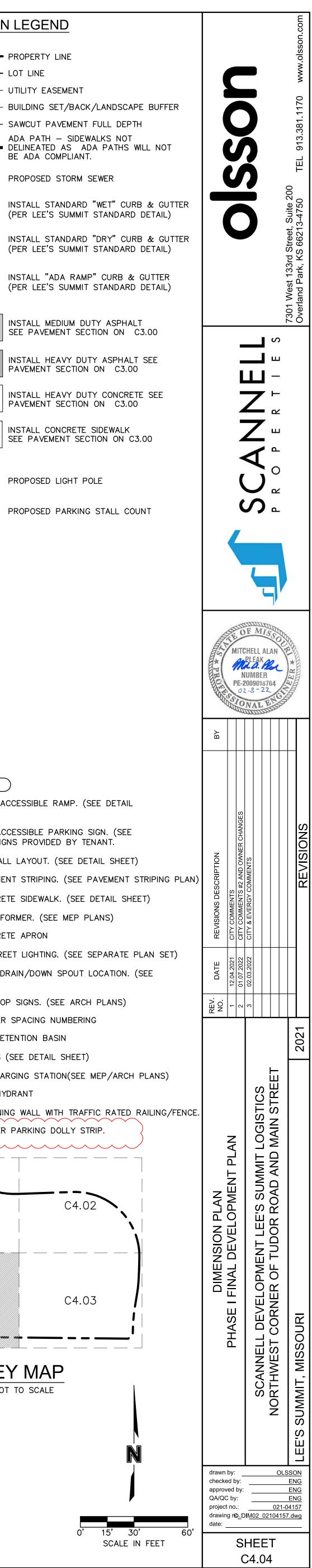


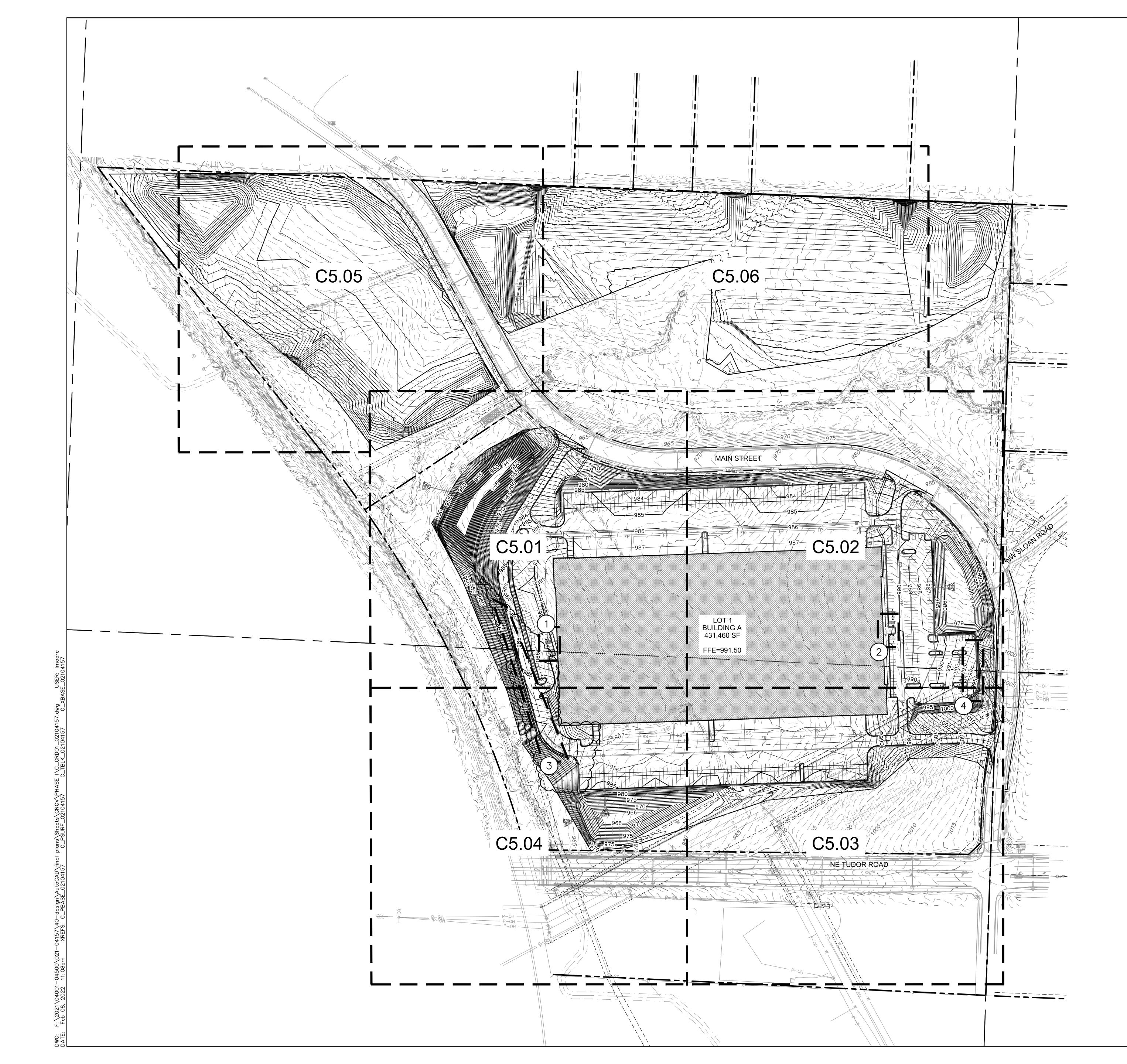


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5	PROPOSED CONCRETE SID	EWALK. (SEE DE	
6	PROPOSED TRANSFORMER	. (SEE MEP PLAN	
7	PROPOSED CONCRETE AP	RON	
8	PARKING AND STREET LIG	HTING. (SEE SEP	
9	PROPOSED ROOF DRAIN/E STORM SHEETS)	OOWN SPOUT LOC	
	INSTALL YIELD/STOP SIGN	IS. (SEE ARCH P	
	PROPOSED TRAILER SPAC	ING NUMBERING	
	PROPOSED DRY DETENTIO	N BASIN	
(13)	CONCRETE STAIRS (SEE DETAIL SHEET)		
14	PROPOSED EV CHARGING	STATION(SEE ME	
	PROPOSED FIRE HYDRANT		
	PROPOSED RETAINING WA	LL WITH TRAFFIC	
	PROPOSED TRAILER PARK	ING DOLLY STRIP	
	\wedge		
		>	
	C4.01	C4.02	
	`		
	C4.04	C4.03	
	X		
	* ************************************		
<u>, , , , , , , , , , , , , , , , , , , </u>			
	<u>KEY N</u>	<u>/IAP</u>	
	ΝΟΤ ΤΟ S	SCALE	

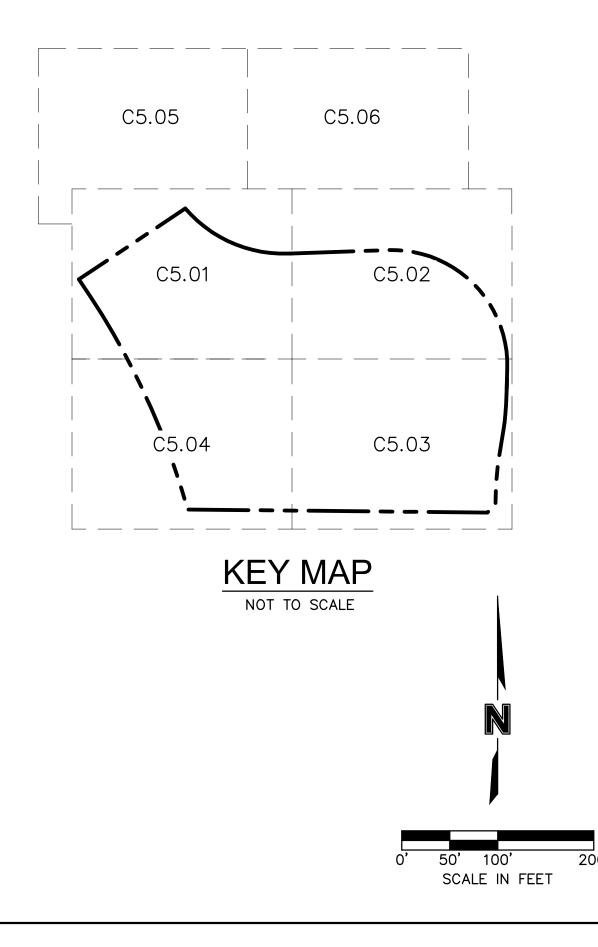
DIMENSION PLAN	N LEGEND
 	PROPERTY LINE LOT LINE UTILITY EASEMENT BUILDING SET/BACK/LA SAWCUT PAVEMENT FUL
	ADA PATH – SIDEWALKS DELINEATED AS ADA P BE ADA COMPLIANT.
	PROPOSED STORM SEWE
	INSTALL STANDARD "WE (PER LEE'S SUMMIT STA
	INSTALL STANDARD "DR (PER LEE'S SUMMIT STA
	INSTALL "ADA RAMP" C (PER LEE'S SUMMIT STA
	INSTALL MEDIUM DUTY A SEE PAVEMENT SECTION
	INSTALL HEAVY DUTY A PAVEMENT SECTION ON
	INSTALL HEAVY DUTY C PAVEMENT SECTION ON
	INSTALL CONCRETE SIDE SEE PAVEMENT SECTION
•	PROPOSED LIGHT POLE

XX





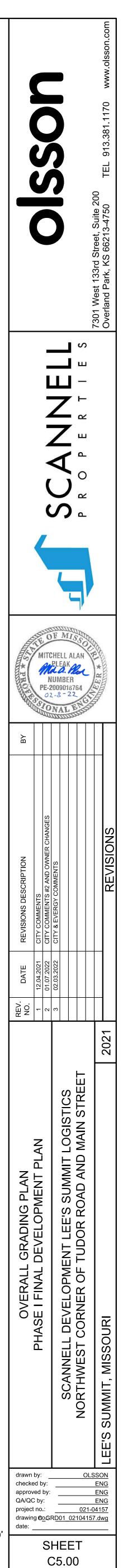
LEGEN	<u>1D</u>
	PROPERTY LINE SURROUNDING PROPER UTILITY EASEMENT
950	PROPOSED CONTOURS
GR.BR	GRADE BREAK LINE
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE
(\mathbf{X})	GRADING DETAIL LOCA (SHEETS C509–C515)

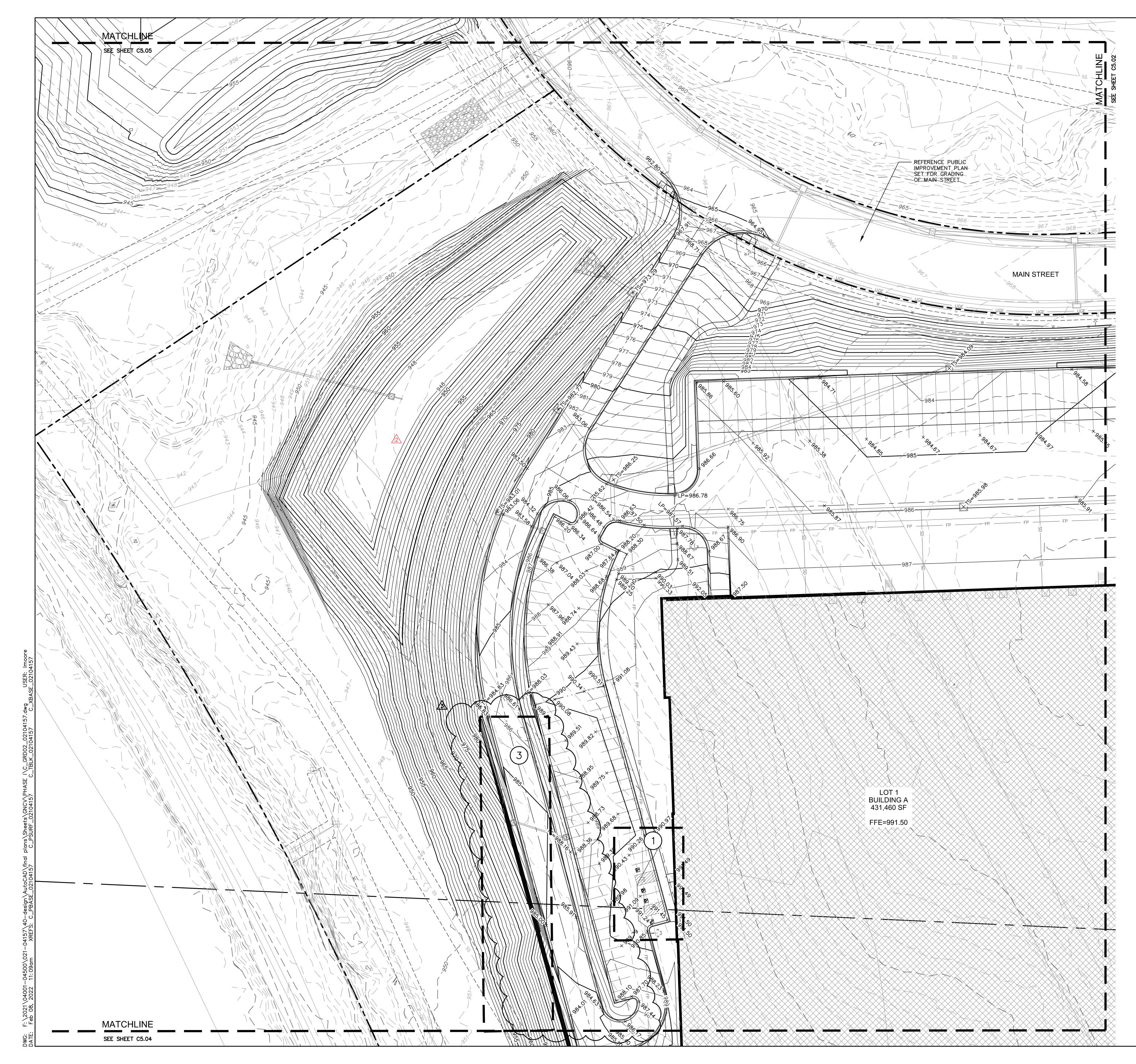




OURS

LOCATIONS -C515)





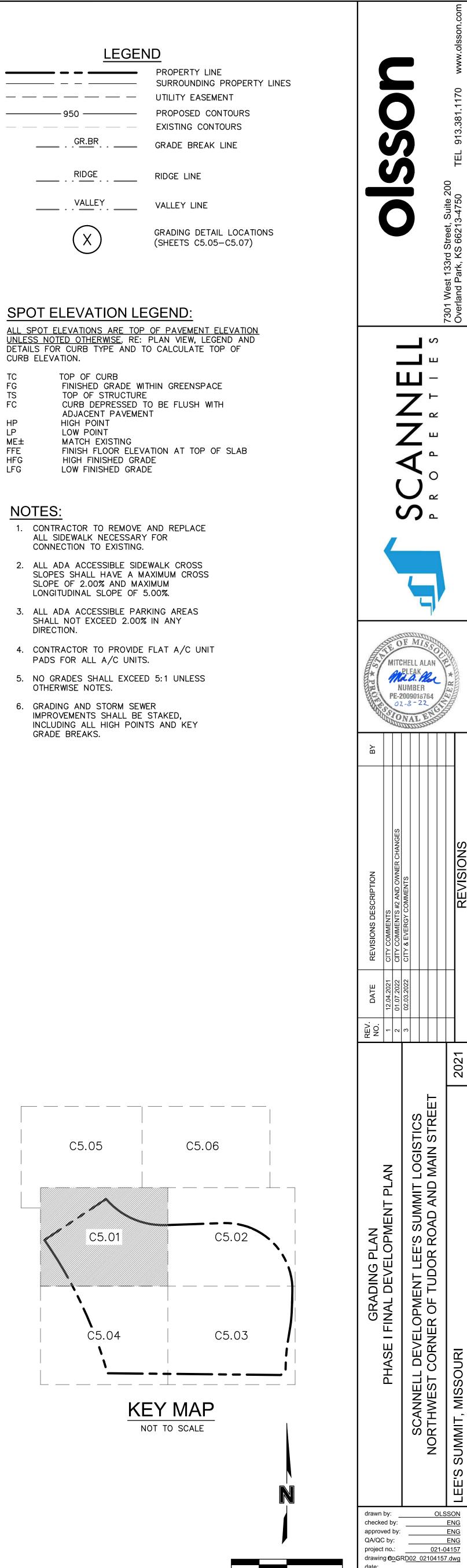
LEGEN	<u>ND</u>
	PROPERTY LINE SURROUNDING PROPE
	UTILITY EASEMENT
950 —	PROPOSED CONTOUR EXISTING CONTOURS
G <u>R.B</u> R	GRADE BREAK LINE
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE
(\mathbf{X})	GRADING DETAIL LOC (SHEETS C5.05-C5.0

<u>ALL SPU</u>	<u>I ELEVAII</u>	<u>UNS ARE</u>	<u>- 10P</u>	<u> </u>	AVEMEN	I ELE	. VA I
UNLESS	NOTED OT	HERWISE	. RE:	PLAN	VIEW, L	EGEN	DΑ
	FOR CURE EVATION.	3 TYPE A	AND T	O CAL	CULATE	TOP	OF
TC	TOP O	F CURB					

FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SL
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

NOTES:

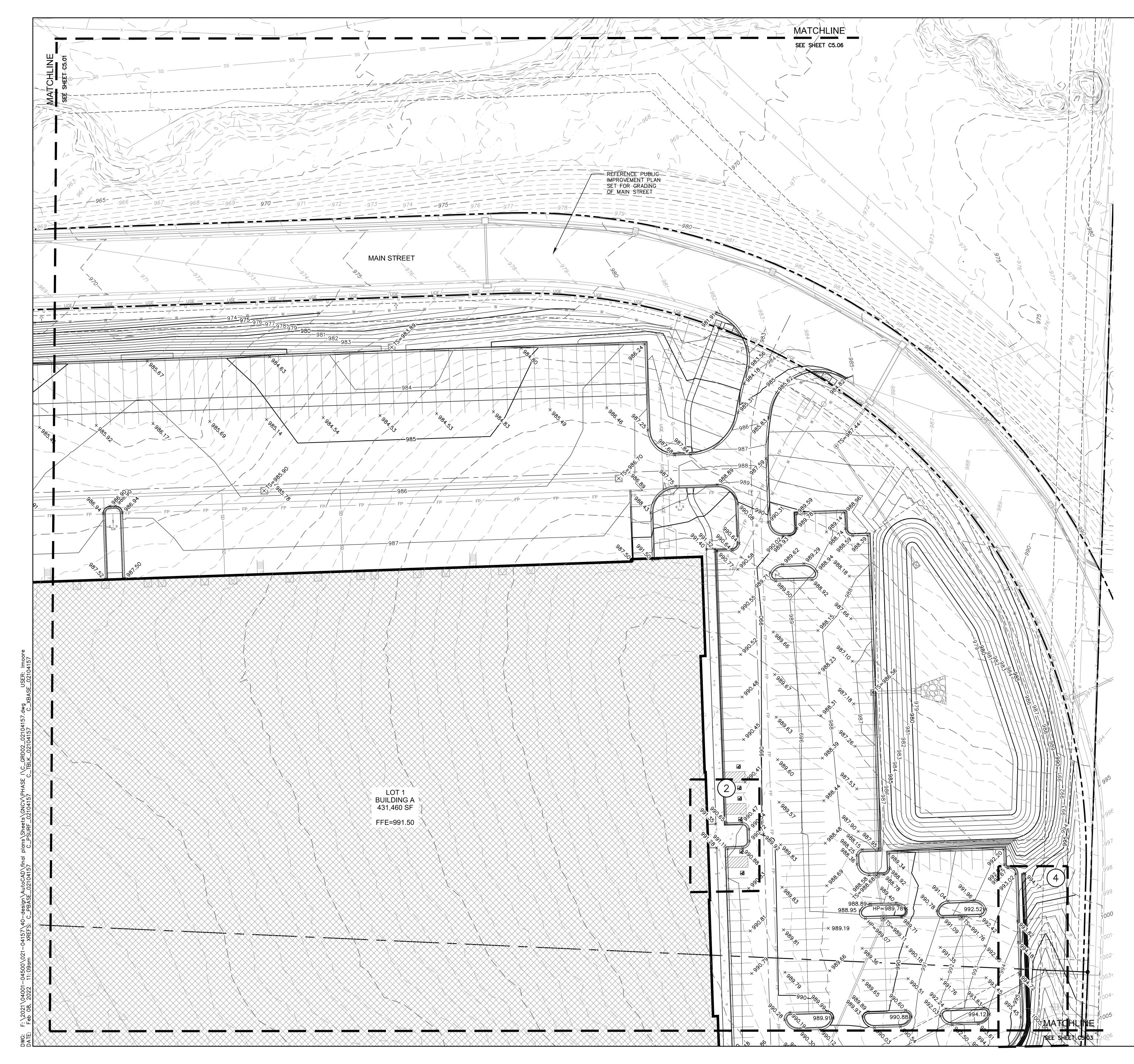
- 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
- 5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.



15' 30' SCALE IN FEET

SHEET

C5.01

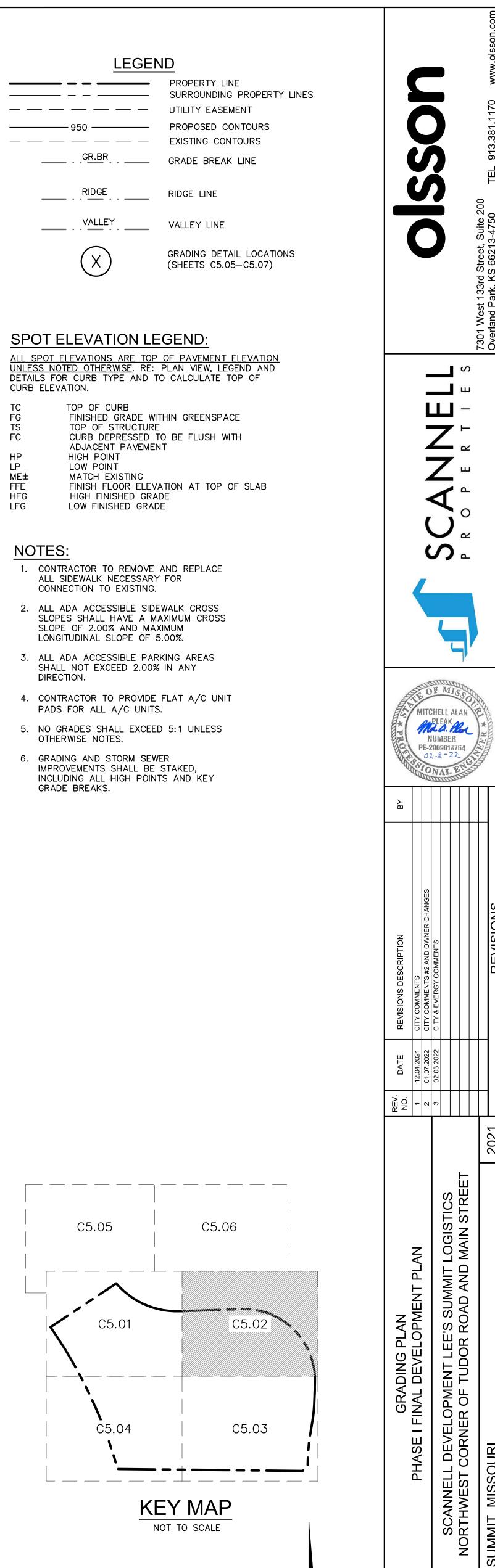


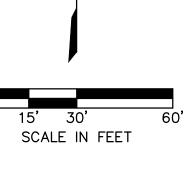
LEGEN	<u>1D</u>
	PROPERTY LINE SURROUNDING PROPI UTILITY EASEMENT
950	PROPOSED CONTOUR EXISTING CONTOURS
G <u>R.B</u> R	GRADE BREAK LINE
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE
(\mathbf{X})	GRADING DETAIL LOC (SHEETS C5.05–C5.0

<u>ALL SPC</u>	<u> DT ELEVATIONS ARE TOP OF PAVEMENT ELEVA</u>
UNLESS	NOTED OTHERWISE. RE: PLAN VIEW, LEGEND A
DETAILS	FOR CURB TYPE AND TO CALCULATE TOP OF
CURB EI	_EVATION.
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH

NOTES:

- CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.





drawn by:

 checked by:
 ENG

 approved by:
 ENG

 QA/QC by:
 ENG

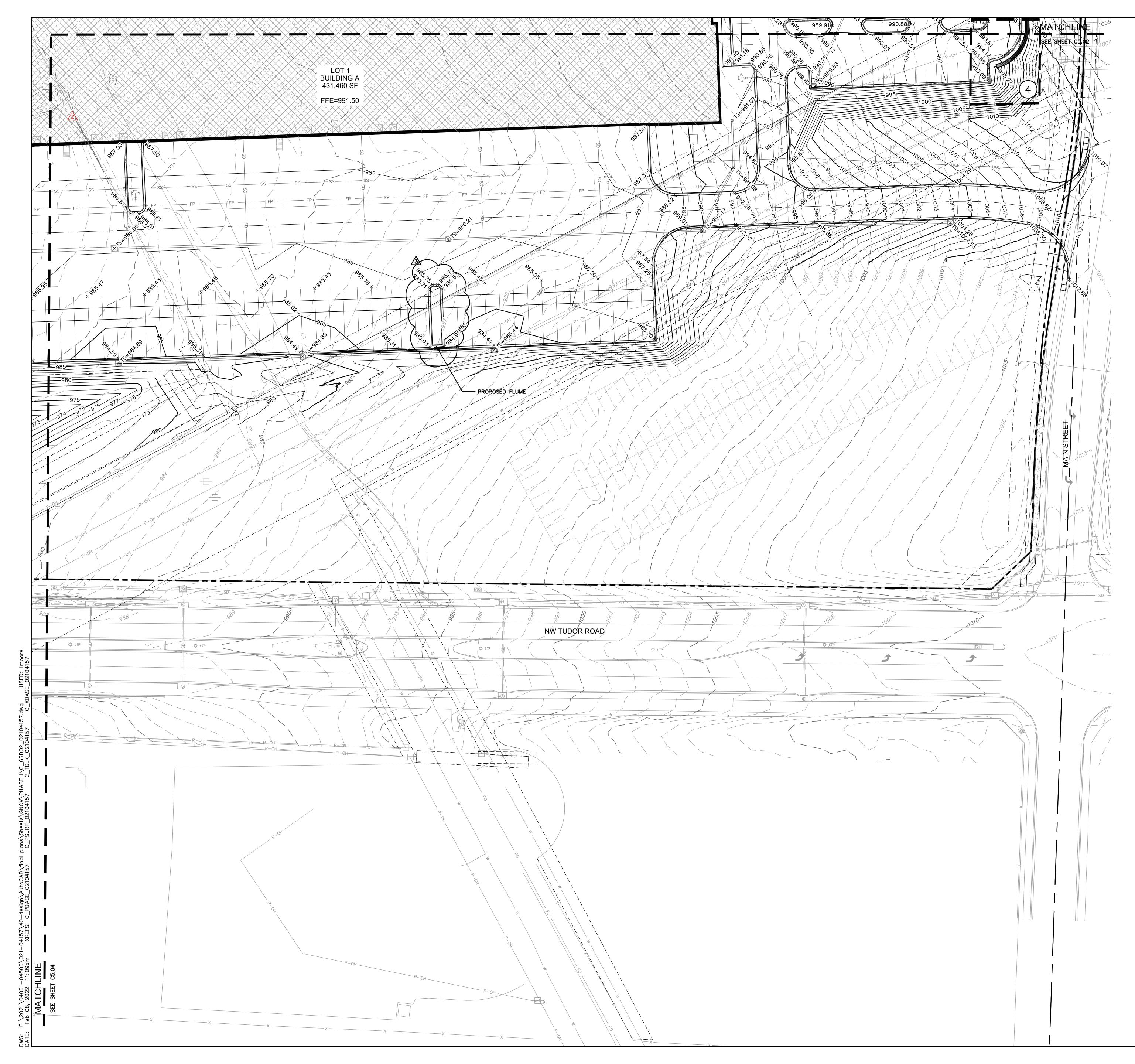
 project no.:
 021-04157

 drawing @o_GRD02_02104157.dwg
 date:

SHEET

C5.02

OLSSON



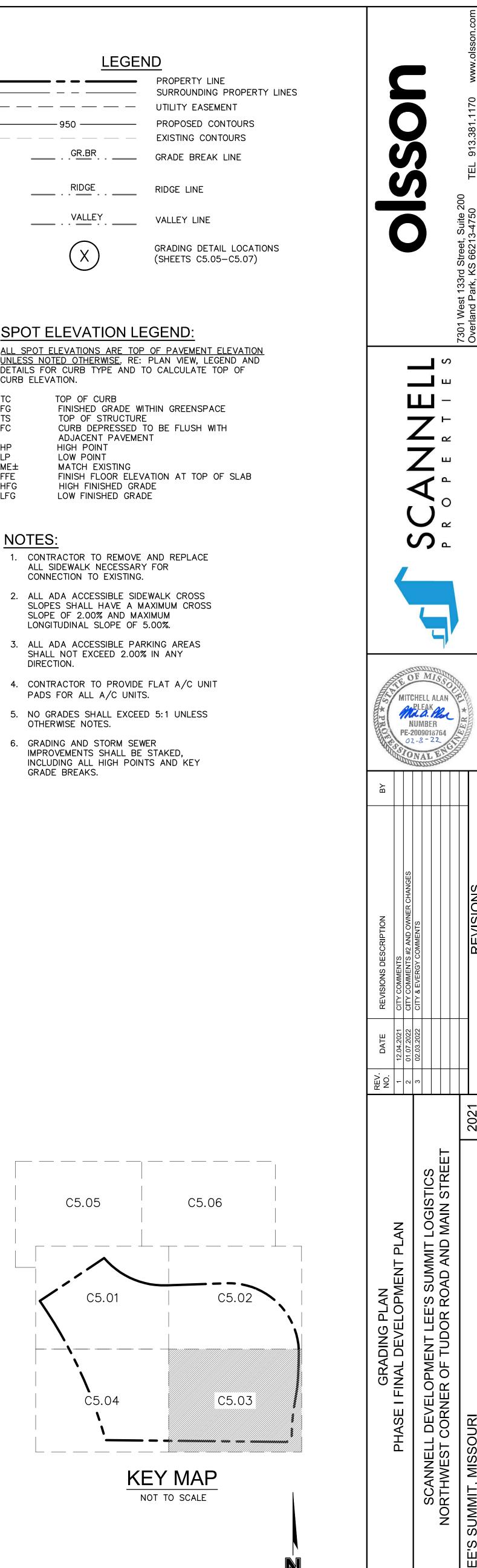
LEGEN	<u>ND</u>
	PROPERTY LINE SURROUNDING PROPI UTILITY EASEMENT
950	PROPOSED CONTOUR EXISTING CONTOURS
G <u>R.B</u> R	GRADE BREAK LINE
	RIDGE LINE
VALLEY	VALLEY LINE
(\mathbf{X})	GRADING DETAIL LOC (SHEETS C5.05-C5.0

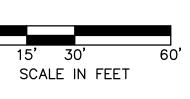
<u>all spo</u>)t ele	<u>EVATIO</u>	NS AF	<u>RE TC</u>	P OF	5 PA'	VEMEN	<u>NT E</u>	LE V	/A1
UNLESS	NOTE	D OTH	ERWIS	<u>E</u> . RE	: PL	AN V	/IEW,	LEG	END	A
DETAILS CURB EL			TYPE	AND	то с	CALC	ULAT	Ε ΤΟ)P (ЭF
тс	Т	OP OF	CURE	3						

FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP OF SL
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

NOTES:

- 1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPE OF 2.00% AND MAXIMUM
- 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- 4. CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
- 5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.





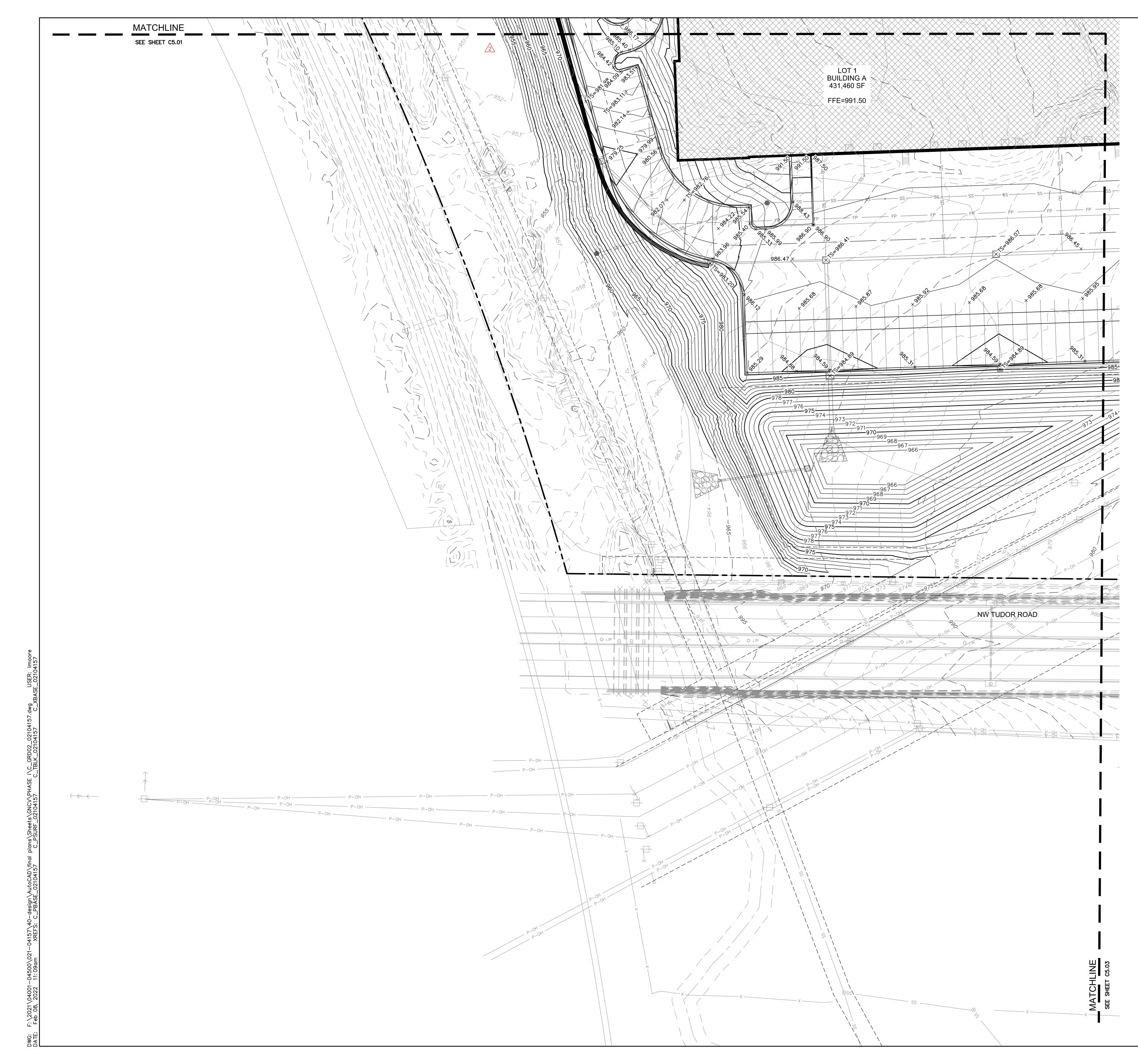
drawn by: OLSSON
 checked by:
 ENG

 approved by:
 ENG

 QA/QC by:
 ENG

 project no.:
 021-04157

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 SHEET C5.03



LEGEN	<u>1D</u>
	PROPERTY LINE SURROUNDING PROPE
	UTILITY EASEMENT
950 —	PROPOSED CONTOUR EXISTING CONTOURS
<u>GR.BR</u>	GRADE BREAK LINE
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE
(\mathbf{X})	GRADING DETAIL LOC (SHEETS C5.05-C5.0

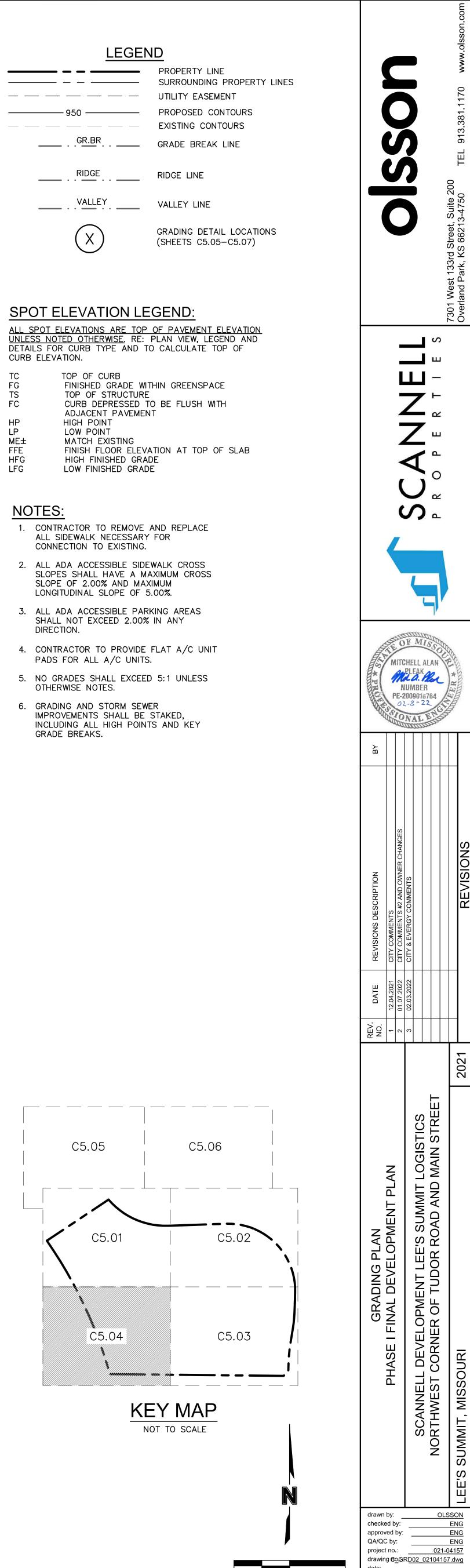
UNLESS	NOTED OTHERWISE. RE: PLAN VIEW, LEGEND A
DETAILS	FOR CURB TYPE AND TO CALCULATE TOP OF
CURB EL	_EVATION.
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSPACE
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH WITH

NOTES:

HP

LP

- 2. ALL ADA ACCESSIBLE SIDEWALK CROSS
- ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
- 5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.





SHEET C5.04

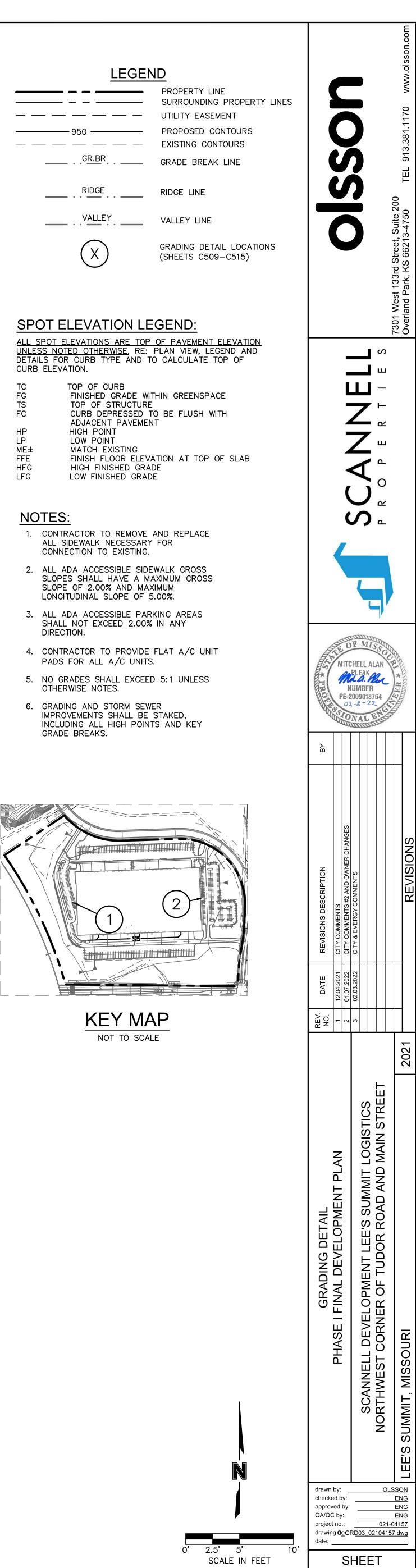


LEGEN	
	PROPERT SURROUN
	UTILITY E
950 —	PROPOSE EXISTING
G <u>R.B</u> R	GRADE BI
	RIDGE LIN
VALLEY	VALLEY L
X	GRADING (SHEETS

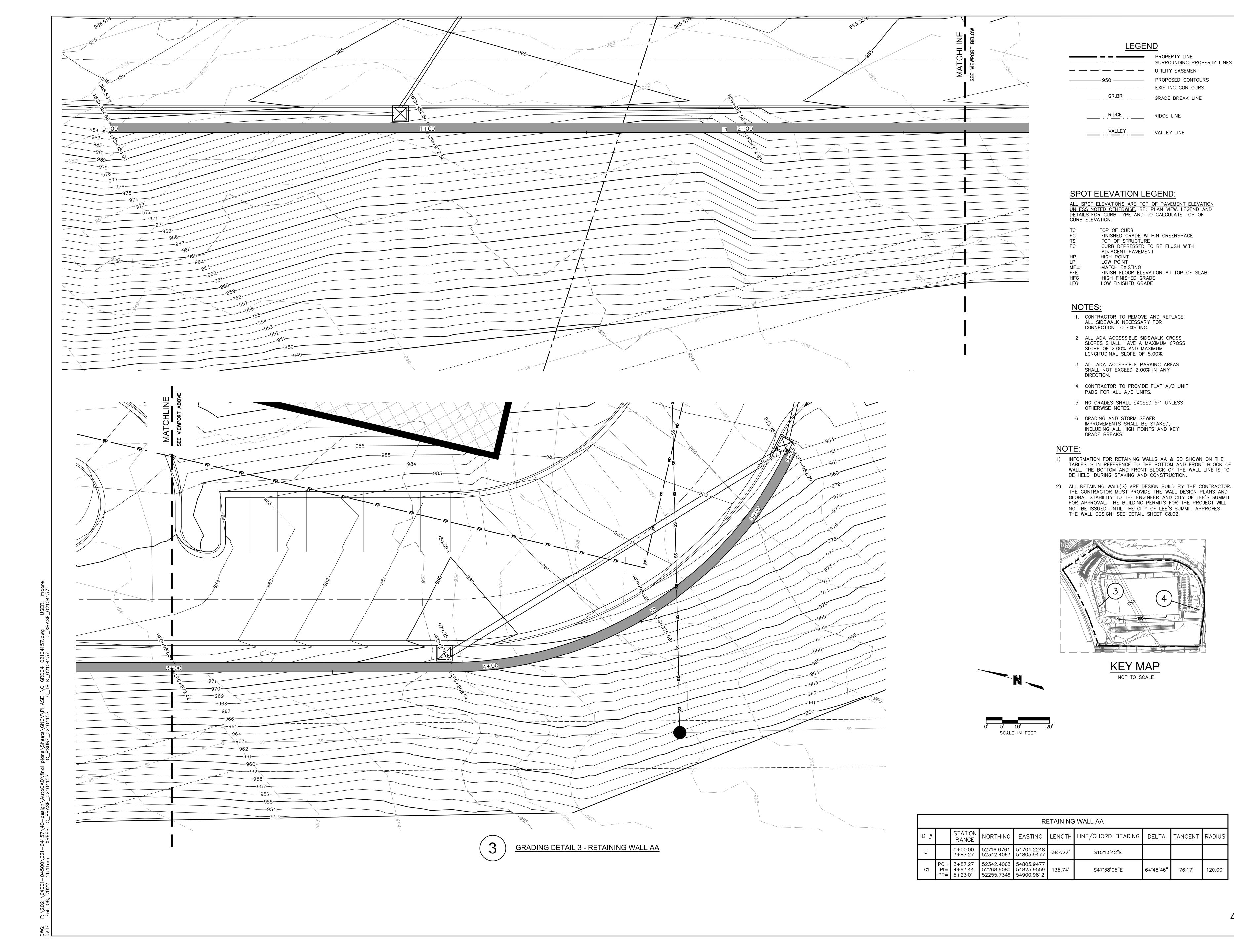
DETAILS	FOR CURB TYPE AND TO CALCULA LEVATION.
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREEN
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH

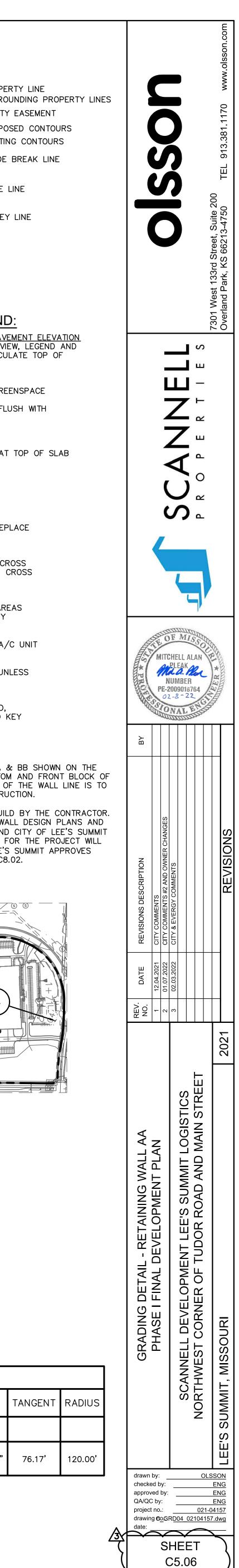
	COND DEFNESSED TO DE LEOS
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

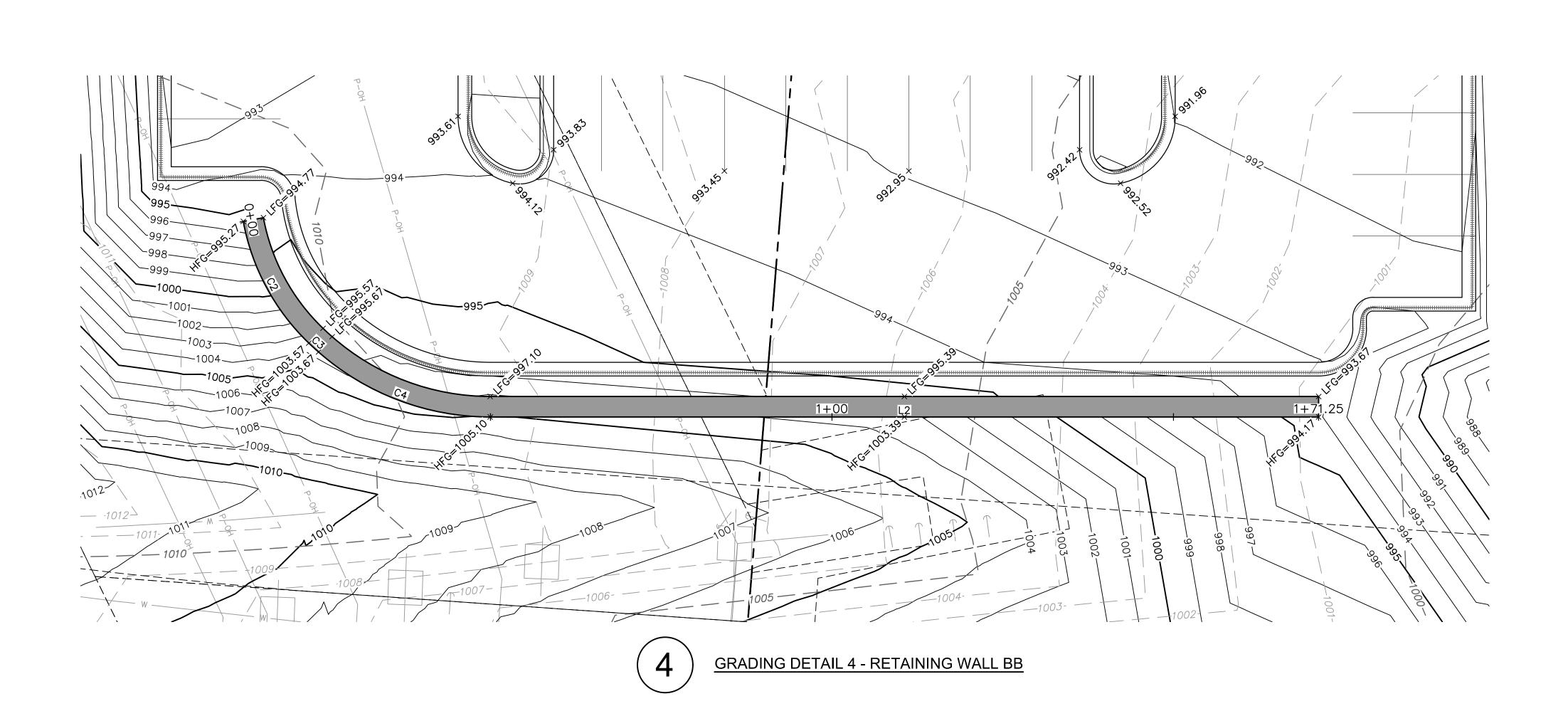
- PADS FOR ALL A/C UNITS.



C5.05



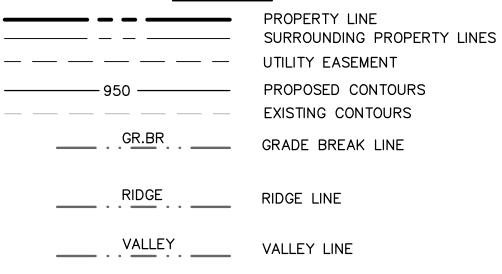




	RETAINING WALL BB								
ID #		STATION RANGE	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
C2	PC= PI= PT=	0+00.00 0+10.63 0+20.57	52424.8396 52427.1327 52435.0536	56034.6742 56045.0544 56052.1443	20.57'	N59°41'13"E	35°42'41"	10.63'	33.00'
C3	PC= PI= PT=	0+20.57 0+21.53 0+22.50	52435.0536 52435.7726 52436.5180	56052.1443 56052.7879 56053.4007	1.93'	N40 ° 37'47"E	2 ° 24'12"	0.96'	46.00 '
C4	PC= PI= PT=	0+22.50 0+36.86 0+49.96	52436.5180 52447.6120 52461.9661	56053.4007 56062.5225 56062.0259	27.46'	N18*43'23"E	41°24'35"	14.36'	38.00'
L2		0+49.96 1+71.25	52461.9661 52583.1850	56062.0259 56057.8315	121.29'	N1 * 58'54"W			

F: \2021\04001-04500\021-04157\40-design\AutoCAD\final plans\Sheets\GNCV\PHASE I\C_GRD04_02104157.dwg USER: Imoore : Feb 08, 2022 11:11am XREFS: C_PBASE_02104157 C_PSURF_02104157 C_TBLK_02104157 C_XBASE_02104157

LEGEND



SPOT ELEVATION LEGEND: ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

CURB	ELEVATION.
тс	TOP OF CURB
FG	FINISHED GRADE WITHIN GREEN
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
$ME\pm$	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TO

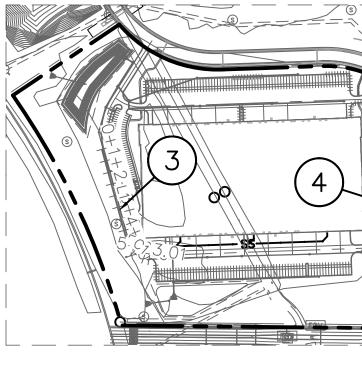
HFG HIGH FINISHED GRADE LFG LOW FINISHED GRADE

NOTES:

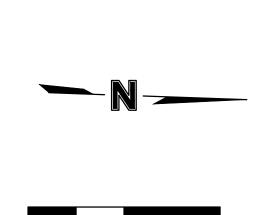
- 1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- 4. CONTRACTOR TO PROVIDE FLAT A/C UNIT PADS FOR ALL A/C UNITS.
- 5. NO GRADES SHALL EXCEED 5:1 UNLESS OTHERWISE NOTES.
- GRADING AND STORM SEWER IMPROVEMENTS SHALL BE STAKED, INCLUDING ALL HIGH POINTS AND KEY GRADE BREAKS.

<u>NOTE:</u>

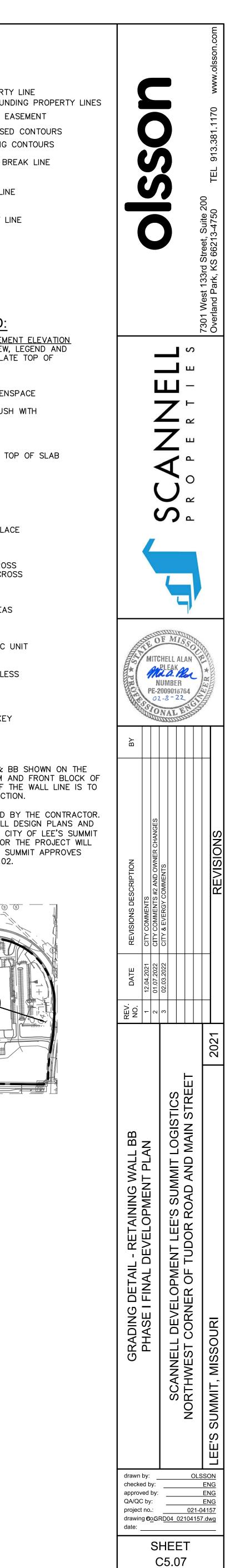
- INFORMATION FOR RETAINING WALLS AA & BB SHOWN ON THE TABLES IS IN REFERENCE TO THE BOTTOM AND FRONT BLOCK OF WALL. THE BOTTOM AND FRONT BLOCK OF THE WALL LINE IS TO BE HELD DURING STAKING AND CONSTRUCTION.
- 2) ALL RETAINING WALL(S) ARE DESIGN BUILD BY THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE THE WALL DESIGN PLANS AND GLOBAL STABILITY TO THE ENGINEER AND CITY OF LEE'S SUMMIT FOR APPROVAL. THE BUILDING PERMITS FOR THE PROJECT WILL NOT BE ISSUED UNTIL THE CITY OF LEE'S SUMMIT APPROVES THE WALL DESIGN. SEE DETAIL SHEET C8.02.

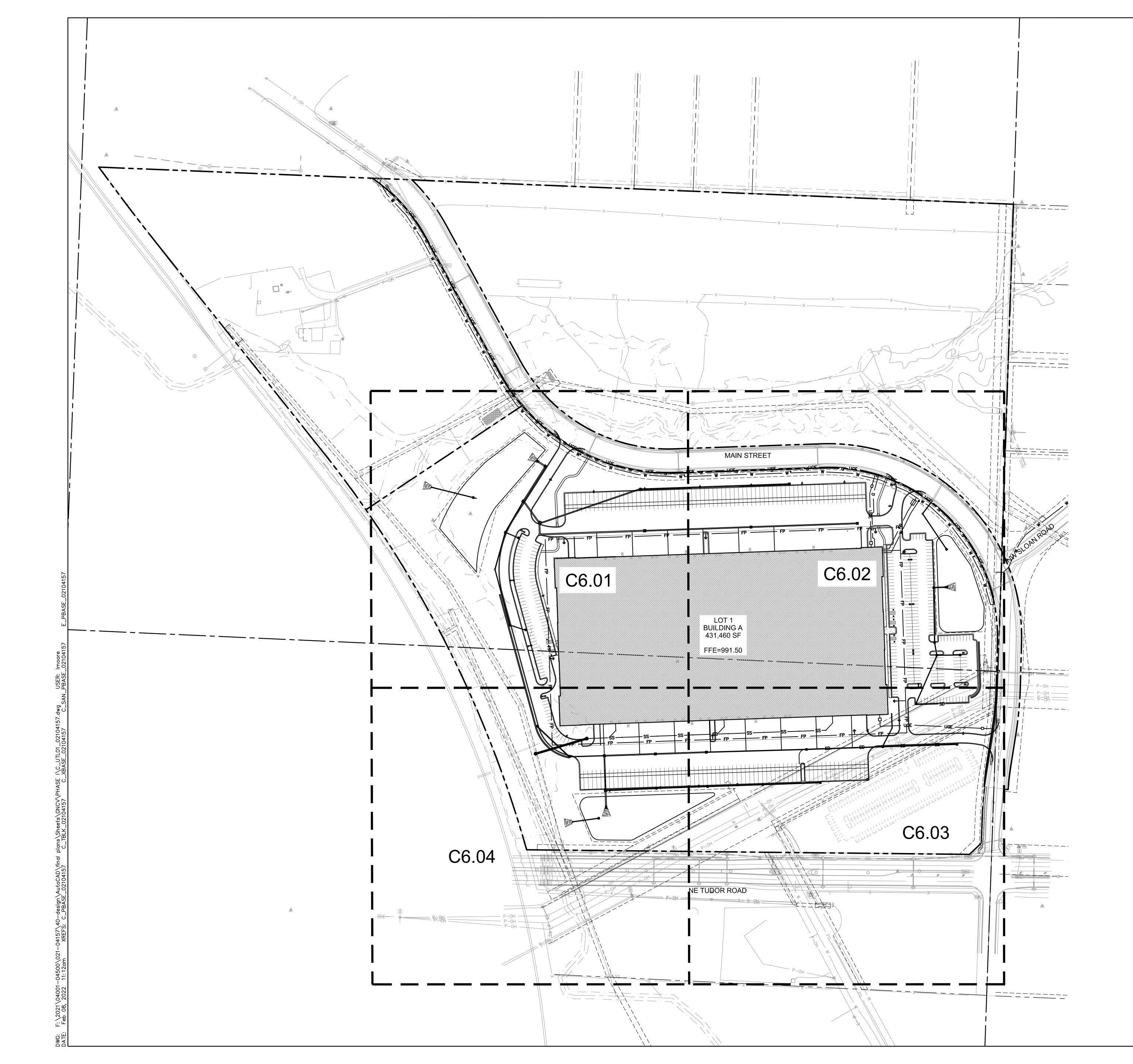


KEY MAP



5' 10' 2 SCALE IN FEET





	PROPERTY LINE
SS SS	EXISTING SANITARY SE
\equiv \equiv \equiv \equiv \equiv \equiv \equiv	EXISTING STORM
W	EXISTING WATER PIPE
———— P-OH ————	EXISTING OVERHEAD P
P-UG	EXISTING UNDERGROUN
	STORM SEWER
SD SD	
P-UG	UNDERGROUND POWER
G G	NATRUAL GAS PIPE
CATV	CABLE TELEVISION CON
— w —	WATER PIPE
SSSS	SANITARY SEWER SER
•	SANITARY SEWER MAIN C6.08-C6.12)

<u>/1</u>

<u>NOTE:</u>

1. NO GAS WELLS ARE PRESENT ON THE PROPERTY BASED ON THE "ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI", BY EDWARD ALTON MAY, JR. DATED 1995.

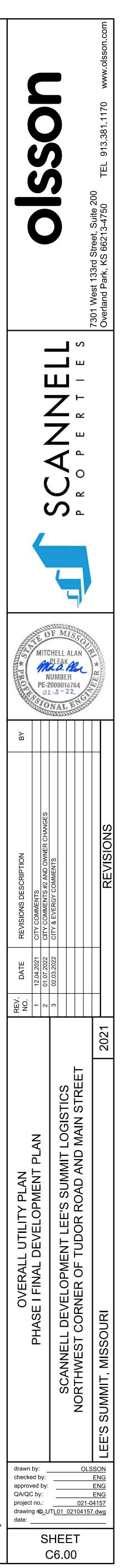
RY SEWER

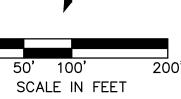
PIPE EAD POWER LINE GROUND POWER LINE

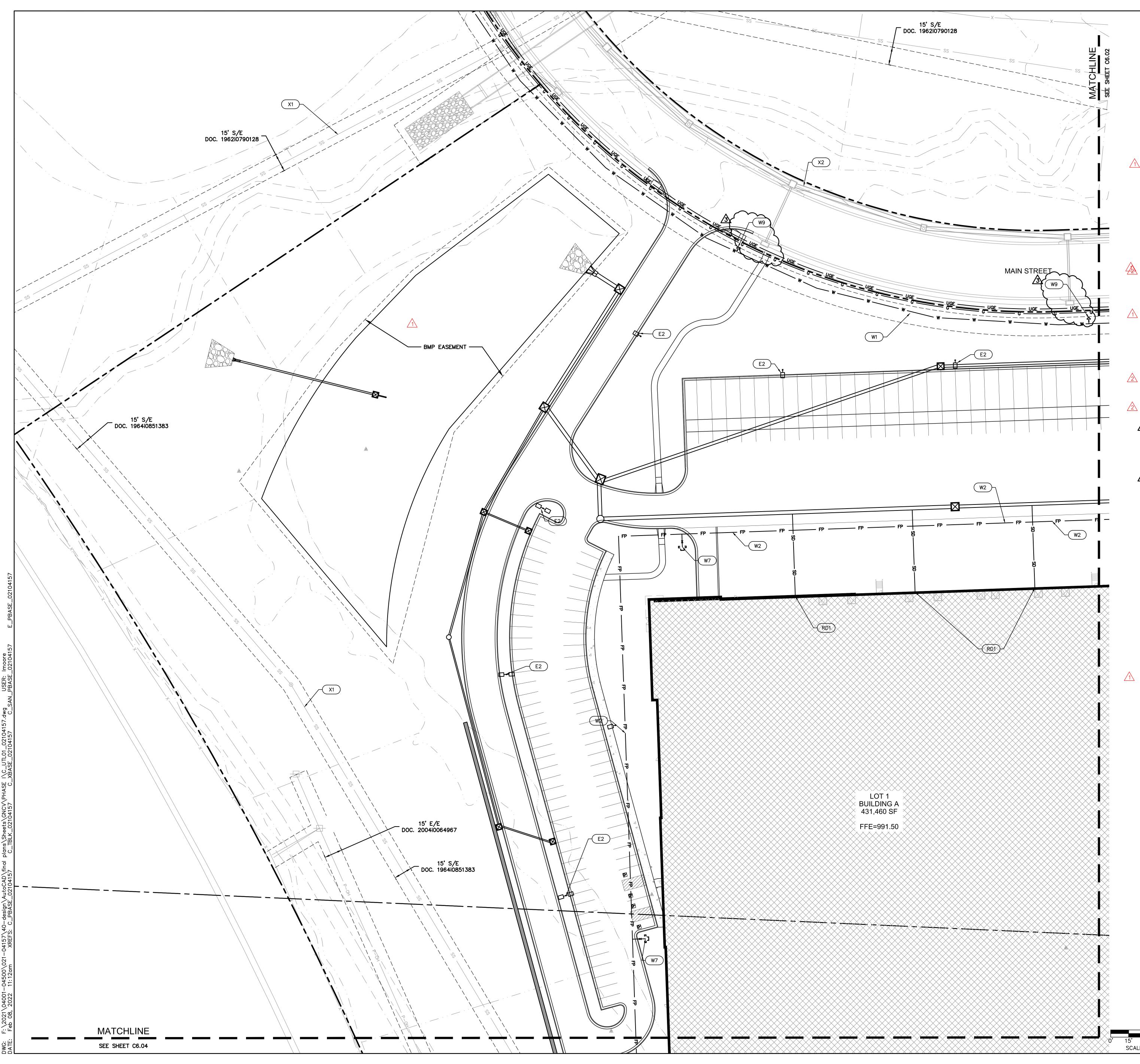
PIPE AND ROOF DRAINS POWER CONDUIT

I CONDUIT

R SERVICE LINE R MAIN (PER SHEETS



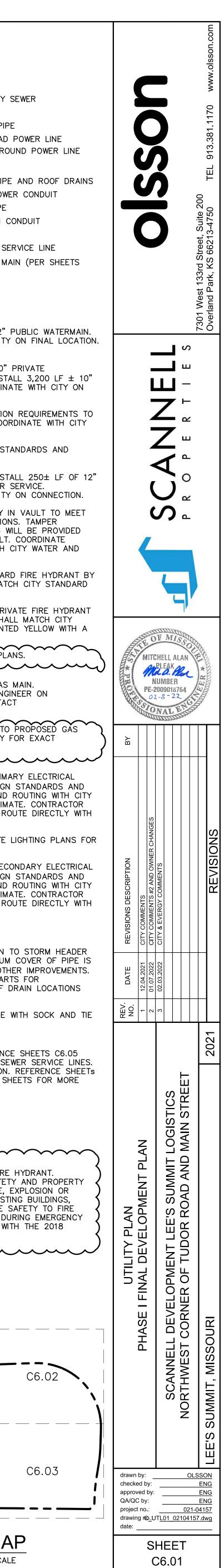


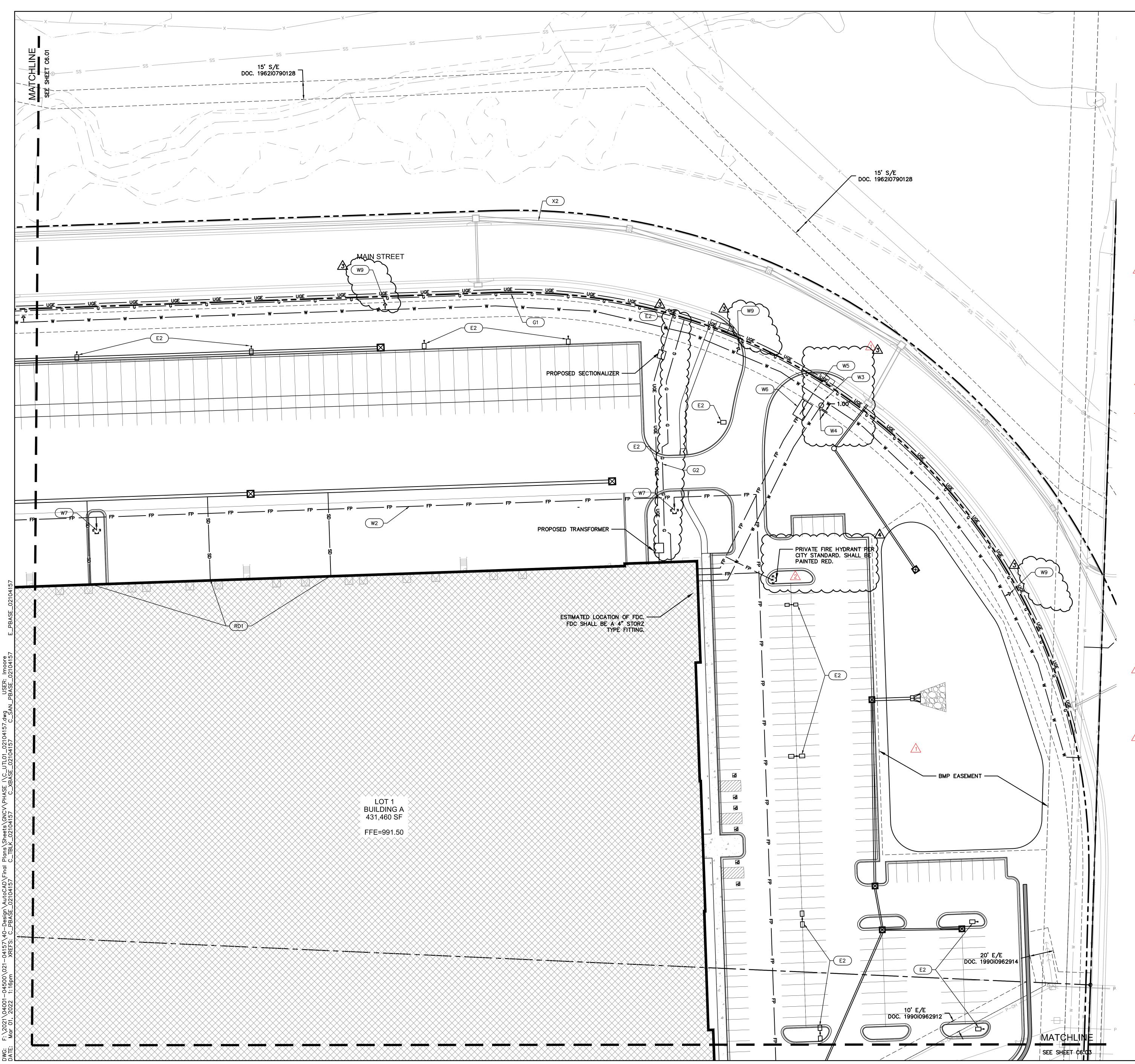


			SS		– SS —	— EX		G SAN	ITARY S
									rm Er pipe
				- P-OH - - P-UG -					RHEAD ERGROL
									ER PIPE D POWE
		_		– catv –					S PIPE SION CO
~			— w —		- w —	— w	ATER	PIPE	
<u>_1</u>		-	— SS —		– SS —	S.	ANITAF	RY SE	WER SEI WER MA
			YNO	TEQ		- C	6.08–0	26.12)	
			TER)				
		W1	APPRO	XIMATE					D 12"F H CITY
		W2	PRESS C900 FINAL	URIZED DR 14. LOCATIO	FIRE F CONTR ON.	PROTE ACTO	CTION R SHA	LOOP LL CC	D 10" D INSTA ORDINA
		W3 W4	BE DE ON CC	TERMINE NNECTI	ED. CO ON.	ONTRA	ACTOR	SHAL	NECTION L COOR TER STA
Λ		W5	SPECIF	TICATION	IS.				D INSTA
			C900 CONTR	DR 14 ACTOR	FOR FII SHALL	RE PF COO	ROTECT	TON V TE WIT	VATER S TH CITY
		W6	CITY V SWITCH FOR T	VATER S HES ANI HE SHU .L AND	STANDA D THEII T—OFF	ARDS R ASS VALL	AND S SOCIAT JES IN	PECIF ED WI THE	MBLY IN ICATION RING WI VAULT. WITH C
<u>/</u> 2\		W7	CONTR		YARD	HYDF	RANTS	SHAL	ED YARE L MATC D.
2	Δ	W8	BY CO	NTRACI	OR. F	PRIVA	TE HYI	ORANT	D PRIV. S SHAL PAINTE
Z	<u>'3\</u>	W9	\sim	\sim	HYDRAN	NTS.	SEE SE		TE PLA
		<u>GA</u> G1					OF PRO		D GAS
	\$		CONTR FINAL	ACTOR	SHALL ON OF	COO GAS	RDINAT MAIN	E WIT	H ENGI CONTAC
-	7	G2	MAIN.	COORDI	NATE \	WITH	UTILITY	COM	ICE TO PANY F
	كر	F T F			UTING,				N.
		E1	SERVIO SPECIF AND E SHALL	L APPR CE PER TICATION VERGY.	ROXIMA EVERG IS. VEF THE A DINATE	Y/LEE RIFY (ALIGNN	E'S SU CONDUI MENT I	MMIT IT SIZ S APF	F PRIMA DESIGN E AND PROXIMA /ICE RO
		E2	PROPC DETAIL		TE LIGH	HTING.	REFE	RENCE	e site l
		E3	SERVIO SPECIF AND E SHALL	CE PER FICATION VERGY.	EVERG IS. VEF THE A INATE	Y/LEE RIFY (ALIGNN	E'S SU CONDUI MENT I	MMIT IT SIZ S APF	DF SECC DESIGN E AND PROXIMA /ICE RO
			INSTAL PIPE V 2.5' A INCLUE INSTAL	VITH A ND SHA DE BENI	HDPE F 1.0% M ALL COO DS, FIT . SEE I	ROM IINIMU ORDIN TINGS	THE R M SLC ATE W , AND	OOF I PE. N ITH A OTHE	DRAIN T IINIMUM LL OTHI R PART ROOF D
Λ		RD2		L BACK					PIPE V R.
				Y SEV ARY SEV) Ference
		SS2	PRIVA C6.08	TE SANI	TARY S PRIVA	SEWEF	R MAIN	EXTE	ARY SEV INSION. WER SH
		X1	EXISTI	<u>UTIL</u> NG SAN	ITARY	SEWE	-	١	
	ß	X2 X3		NG STO NG WAT			\sim	\sim	\sim
		NOTI 1. 2.	FDC S THE A PROTE DANGE STRUC FIGHTE OPERA	LL ISSU CTION F ROUS (TURES RS ANE	ES PER ROM T CONDITI AND P D EMER SHALL	RTAIN THE H ONS REMIS REMIS BE II	ING TO AZARE IN NEV ES, AI Y RES N ACC) LIFE)S OF V AND VD TC POND	OF FIRE SAFET FIRE, E EXISTII THE S ERS DUI NCE WIT
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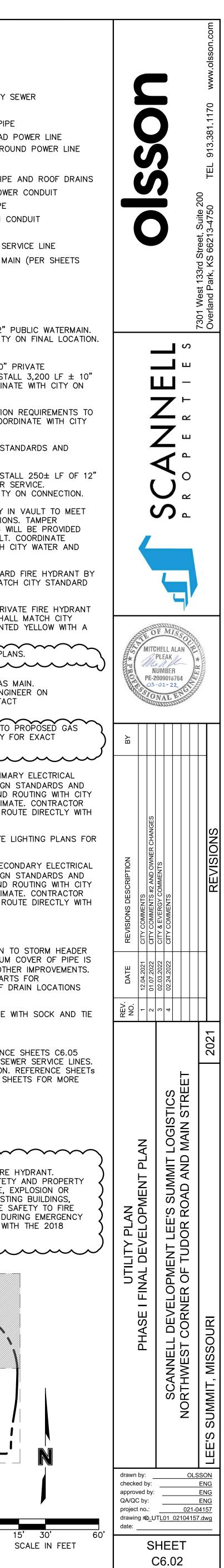
15' 30' SCALE IN FEET

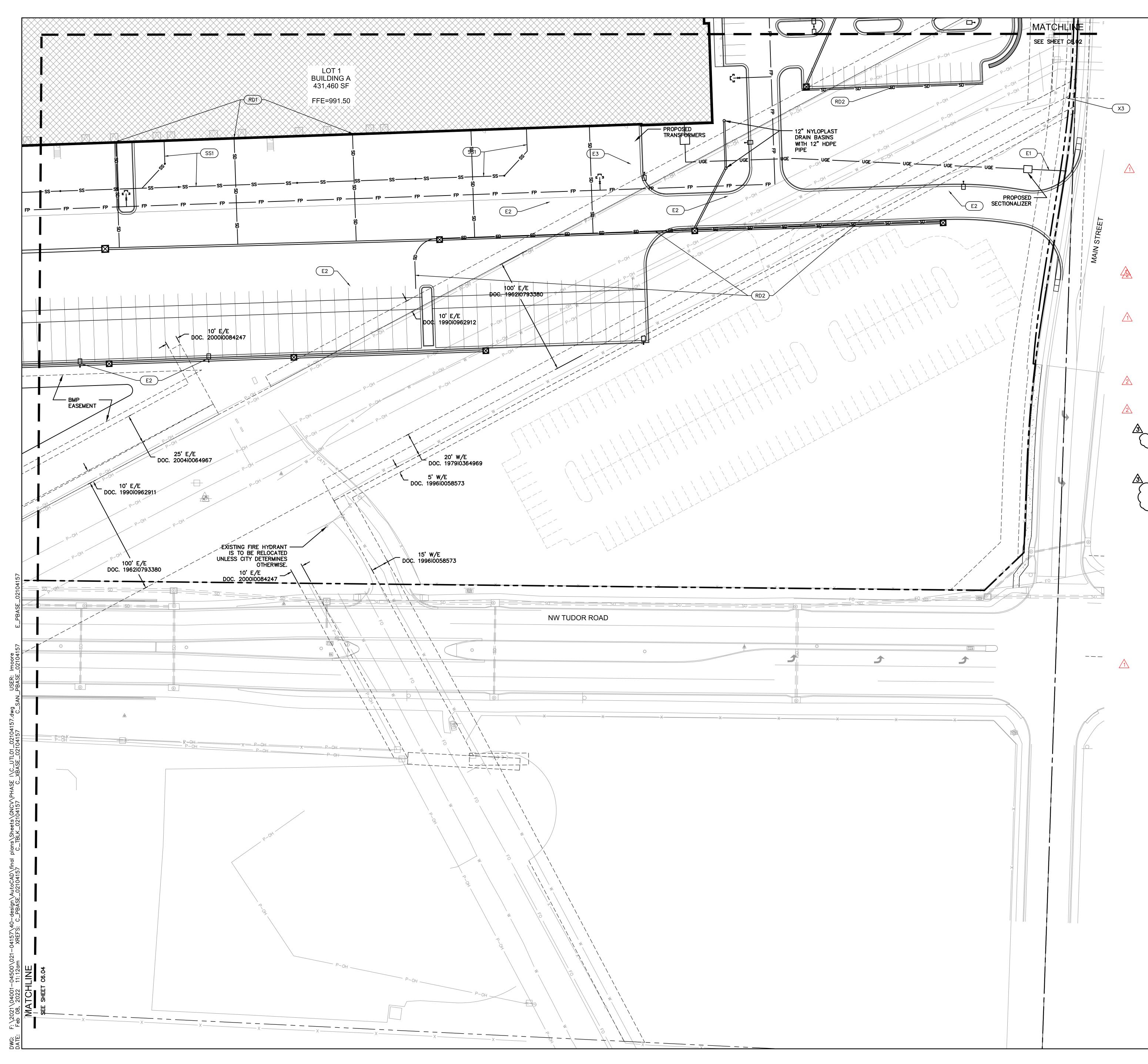
KEY MAP





:					GEIND	
		S			PROPERTY EXISTING S	LINE SANITARY SI
					EXISTING S	STORM WATER PIPE
					EXISTING (DVERHEAD F JNDERGROU
					STORM SE	WER
		s				ADER PIPE DUND POWER
		(NATRUAL CABLE TEL	GAS PIPE _EVISION CO
A	\wedge	/ /			WATER PIF SANITARY	PE SEWER SER
		•			SANITARY C6.08–C6.	SEWER MAI
		KEYN	IOTES			
			ROXIMATE			OSED 12"P
≥ -		CO	NTRACTOR	SHALL CO	DORDINATE	WITH CITY
	$\wedge \wedge$	PRI C90	ESSURIZED	FIRE PRO	TECTION LO	OSED 10" P DOP. INSTAL COORDINAT
		BE		D. CONT		ONNECTION HALL COORE
		W4 INS		R METER	PER CITY	WATER STAI
	Λ	C90	DO DR 14 F	FOR FIRE	PROTECTIÓ	AND INSTAI N WATER SI WITH CITY
		CIT SW	Y WATER S TCHES ANI	STANDARD	S AND SPE	SSEMBLY IN CIFICATIONS WIRING WIL HE VAULT.
 	2	ME	P PLANS.			ION WITH C
	^	CO	NTRACTOR.	YARD HY		HALL MATCH
	<u>/2</u>	BY ST/	CONTRACT	OR. PRIV	VATE HYDR.	OSED PRIVA ANTS SHALL BE PAINTEI
× ` `		W9 PUE	BLIC FIRE H	HYDRANTS	S. SEE SEP	ARATE PLAN
						DSED GAS N
	A	FIN		ON OF GA	S MAIN AN	WITH ENGIN ID CONTACT
	~	MA	N. COORDI	NATE WIT	H UTILITY (ERVICE TO I
	Ľ			UTING, AN	ND CONNEC	
		SEF SPE AN	TALL APPR RVICE PER ECIFICATION D EVERGY.	EVERGY/I S. VERIF THE ALIG	LEE'S SUMN (CONDUIT GNMENT IS	OF PRIMAR IT DESIGN SIZE AND R APPROXIMA ERVICE ROU
×		CIT E2 PR	Y AND EVE OPOSED SIT	RGY.		NCE SITE LI
		E3 INS				F OF SECO
		SPE AN SH	ECIFICATION D EVERGY.	IS. VERIÉS THE ALIO INATE ELI	Y CONDUIT	IT DESIGN SIZE AND F APPROXIMA ⁻ ERVICE ROU
			<u>1 ROOF</u>			
	Λ	PIP 2.5 INC INS	E WITH A ' AND SHA LUDE BEND TALLATION.	1.0% MINII LL COORI DS, FITTIN SEE MEF	MUM SLOPE DINATE WITH GS, AND O	DF DRAIN TO MINIMUM H ALL OTHE THER PARTS DR ROOF DF
	<u> </u>	RD2 INS			B PERFORA STORM SE	TED PIPE W
		<u>SANIT</u>	ARY SEV	NER SE		ss#)
		–C SS2 PRI	6.07 FOR I VATE SANI	NFORMAT TARY SEV	ION ON SAI VER MAIN E	REFERENCE NITARY SEW XTENSION.
Ĺ	$\widehat{1}$		08 – C6.12 ORMATION.		SANITARY	SEWER SHE
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	ß		STING WAT			
	<u>/5</u> (NOTE: 1. FD(C SHALL BE	E LOCATE	••••• D WITH 100)' OF FIRE I
		PR	DTECTION F	ROM THE	HAZARDS	IFE SAFETY OF FIRE, EX AND EXISTIN
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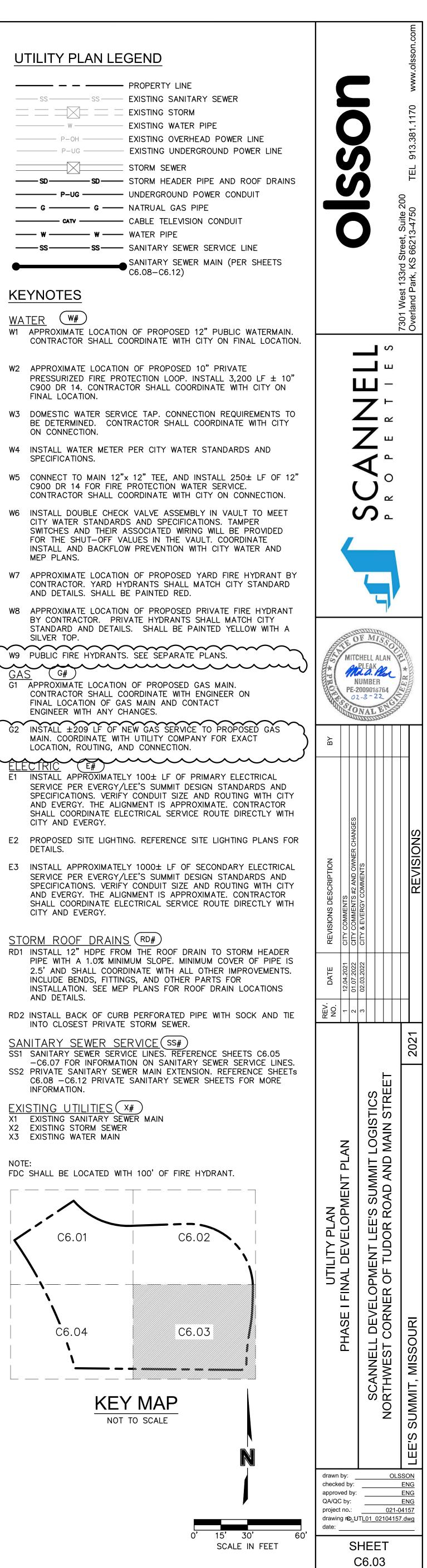
SS	— SS ———	EXISTING SANITARY
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W		EXISTING WATER PIP
———— P-OH -		EXISTING OVERHEAD
P-UG -		EXISTING UNDERGRO
		STORM SEWER
SD	— SD ———	STORM HEADER PIPE
P-UG -		UNDERGROUND POWE
G	— G ——	NATRUAL GAS PIPE
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SS	– ss ——	SANITARY SEWER SE
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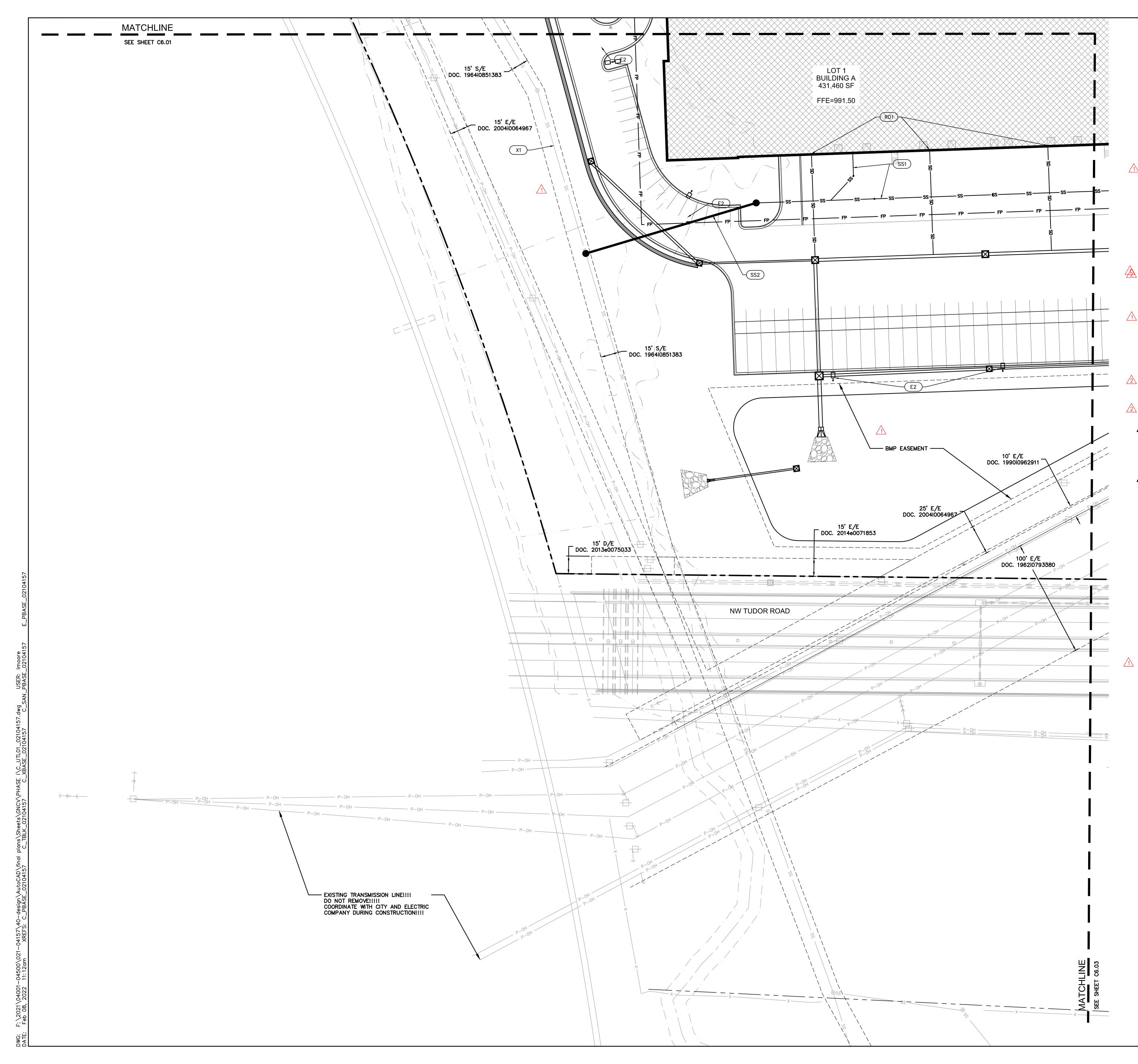
KE	YNOTES
WA W1	TER W# APPROXIMATE LOCATION OF PROPOSED 12" P CONTRACTOR SHALL COORDINATE WITH CITY
W2	APPROXIMATE LOCATION OF PROPOSED 10" F PRESSURIZED FIRE PROTECTION LOOP. INSTAI C900 DR 14. CONTRACTOR SHALL COORDINA FINAL LOCATION.
W3	DOMESTIC WATER SERVICE TAP. CONNECTION BE DETERMINED. CONTRACTOR SHALL COORI ON CONNECTION.
W4	INSTALL WATER METER PER CITY WATER STA SPECIFICATIONS.
W5	CONNECT TO MAIN 12"x 12" TEE, AND INSTA C900 DR 14 FOR FIRE PROTECTION WATER S CONTRACTOR SHALL COORDINATE WITH CITY
W6	INSTALL DOUBLE CHECK VALVE ASSEMBLY IN CITY WATER STANDARDS AND SPECIFICATIONS SWITCHES AND THEIR ASSOCIATED WIRING WI FOR THE SHUT-OFF VALUES IN THE VAULT. INSTALL AND BACKFLOW PREVENTION WITH C MEP PLANS.
W7	APPROXIMATE LOCATION OF PROPOSED YARD CONTRACTOR. YARD HYDRANTS SHALL MATCH AND DETAILS. SHALL BE PAINTED RED.
W8	APPROXIMATE LOCATION OF PROPOSED PRIVA BY CONTRACTOR. PRIVATE HYDRANTS SHALL STANDARD AND DETAILS. SHALL BE PAINTED SILVER TOP.
W9	PUBLIC FIRE HYDRANTS. SEE SEPARATE PLAN
<u>GA</u> G1	S (G#) APPROXIMATE LOCATION OF PROPOSED GAS N CONTRACTOR SHALL COORDINATE WITH ENGIN FINAL LOCATION OF GAS MAIN AND CONTACT ENGINEER WITH ANY CHANGES.
G2	INSTALL ±209 LF OF NEW GAS SERVICE TO MAIN. COORDINATE WITH UTILITY COMPANY F LOCATION, ROUTING, AND CONNECTION.
ELE	<u>CTRIC</u> (E#)
E1	INSTALL APPROXIMATELY 100± LF OF PRIMA SERVICE PER EVERGY/LEE'S SUMMIT DESIGN SPECIFICATIONS. VERIFY CONDUIT SIZE AND F AND EVERGY. THE ALIGNMENT IS APPROXIMA SHALL COORDINATE ELECTRICAL SERVICE ROU CITY AND EVERGY.
E2	PROPOSED SITE LIGHTING. REFERENCE SITE L DETAILS.
E3	INSTALL APPROXIMATELY 1000± LF OF SECO SERVICE PER EVERGY/LEE'S SUMMIT DESIGN SPECIFICATIONS. VERIFY CONDUIT SIZE AND F AND EVERGY THE ALIGNMENT IS APPROXIMA

AND DETAILS.

INFORMATION.

X2 EXISTING STORM SEWER X3 EXISTING WATER MAIN

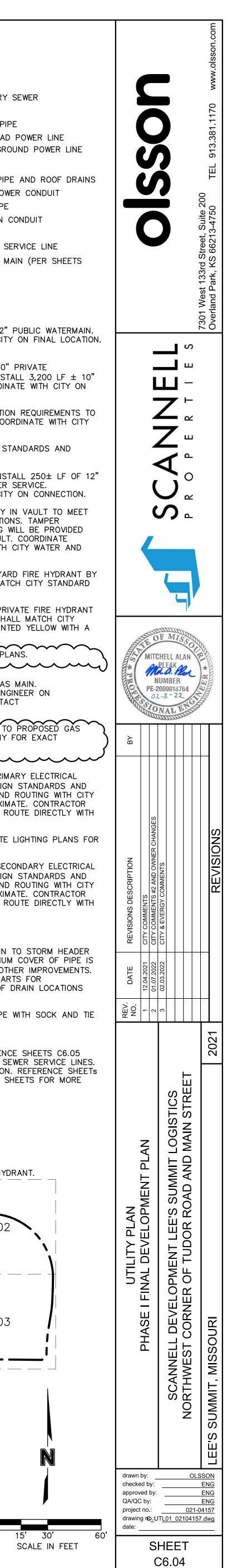


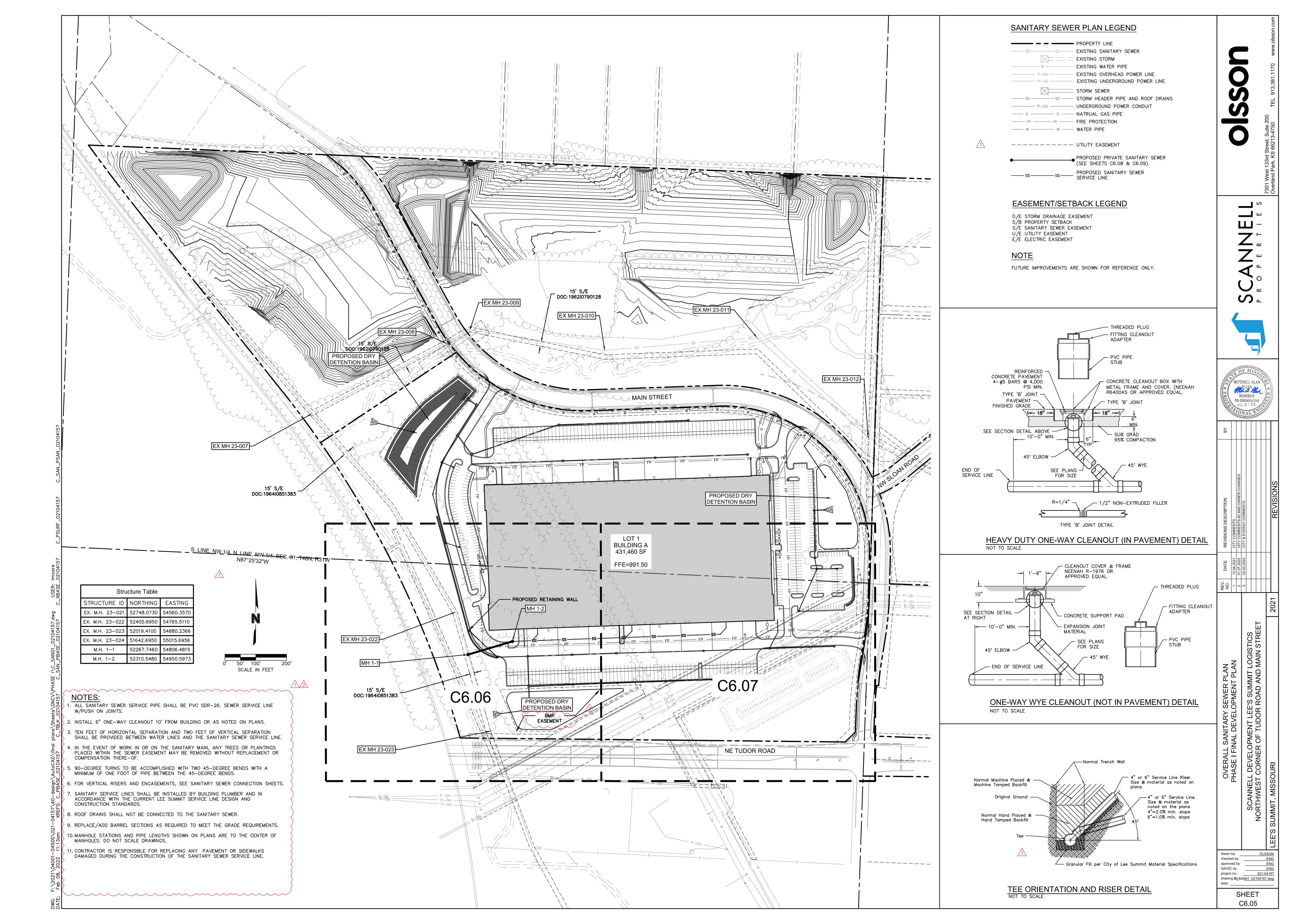


------ PROPERTY LINE

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					- EXISTING STORM SE	
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					- WATER PI	
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	•				SANITARY C6.08-C6	
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					COORDINATE	
	W2		XIMATE		ON OF PROF	POSED 10"
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	RD1	PIPE W	/ITH A	1.0% MIN	OM THE ROG	E. MINIMUM
		INCLUD	E BEND	DS, FITTII	RDINATE WIT NGS, AND O	THER PAR
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	RD2				RB PERFORA E STORM SE	
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	<u>571</u> SS1	SANITA	RY SEV	VER SER	VICE LINES. TION ON SA	REFERENC
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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 CORNERS. 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. 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 MODOT RIGHT-OF-WAY SHALL CONFORM TO
- THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT. 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
- 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

SHOP DRAWINGS

VERIFIED:

THERETO:

CONTRACT DOCUMENTS.

LIMITED TO, THE FOLLOWING:

EQUAL" ALTERNATIVE.

PROJECT.

COMPLETED THE ABOVE TASKS.

LOCAL CODES AND ORDINANCES.

ADJUSTMENTS ARE INDICATED IN THE PLANS.

- 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.
- DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE

3. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING

4. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE

TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL

5. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL

ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS

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

VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS

AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN

DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND

A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED

B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION,

C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES,

PERTAINING TO THE PERFORMANCE OF THE WORK;

PRECAUTIONS AND PROGRAMS INCIDENT THERETO;

CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT

SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION

SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY

D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH

SAMPLES. AND WITH THE REQUIREMENTS OF THE WORK AND THE

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

2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT

B. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN "APPROVED

A. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS

SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND

CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY

PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW

UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION

APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP

PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS,

- 2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.

- 2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF 4. ALL STRUCTURE DIMENSIONS ARE TO INSIDE FACE OF STRUCTURE.

FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL

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

SANITARY SEWER GENERAL NOTES

STRUCTURE TO CENTER OF STRUCTURE.

CONSTRUCTION OF SANITARY SEWER.

THROUGH THE MANHOLE.

SEALS.

INFORMATION.

SS4.00.

SEWER.

NOTED.

5.

8.

INSTALLATION.

COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE.

ORDINANCES OR AS AN AID WHEN ORIENTING THE LID DURING

POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY

MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND

9. PIPE PENETRATIONS SHALL USE GASKETS TO ENSURE WATERTIGHT

SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.

FAILS ON ANY SECTION OF PIPE, THAT SECTION SHALL BE

16. SANITARY LATERALS ARE DESIGNED @ 2.00% SLOPE. IF RISER IS

10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC

ALL TESTING EQUIPMENT. TESTING SHALL INCLUDE

B. AIR PRESSURE TEST OF ALL GRAVITY SEWERS.

UNCOVERED AND REPLACED.

C. VACUUM TEST OF ALL MANHOLES.

SHALL BE 2.0' TO AVOID PIPE JOINT.

CURRENT APWA SPECIFICATIONS.

ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND

6. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF

7. 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.

CONFORMING TO 1/2 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

11. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM

OF TWO FULL BUSINESS DAYS IN ADVANCE. CONTRACTOR SHALL FURNISH A. MANDREL TEST OF ALL GRAVITY SEWERS. IF THE MANDREL TEST

12. REFER TO SHEET SS3.02 FOR SANITARY DESIGN & SEWER LATERAL

13. ALL SERVICE LINE CONNECTIONS SHALL BE MADE WITH AN 8"X8" PVC WYE, 8"PVC 45" BEND, AND THE APPROPRIATE LENGTH OF 8" PVC

LATERAL (UNLESS OTHERWISE SHOWN) AND CAP. SEE DETAIL SHEET

14. MSFE- INDICATES LOWEST FLOOR SERVICEABLE BY PROPOSED SANITARY

15. MAXIMUM DEVIATION FROM LATERAL STATION LOCATIONS AS CALLED OUT

INDICATED, IT IS TO BE AT THE SANITARY MAIN, UNLESS OTHERWISE

17. REFER TO CURRENT CITY SPECIFICATIONS FOR MINIMUM PIPE SLOPES.

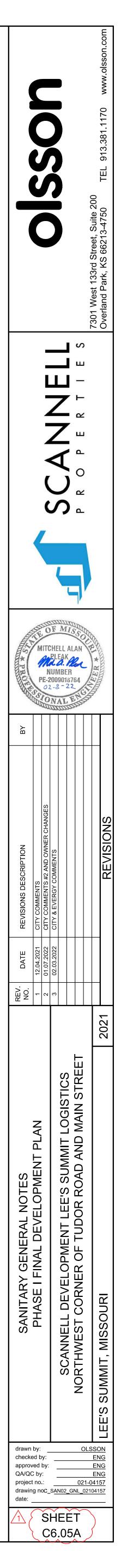
18. CONTRACTOR MAY BE REQUIRED TO RECONSTRUCT PIPE AND STRUCTURE IF MINIMUM INVERT DROP OR PIPE SLOPE REQUIREMENTS ARE NOT MET.

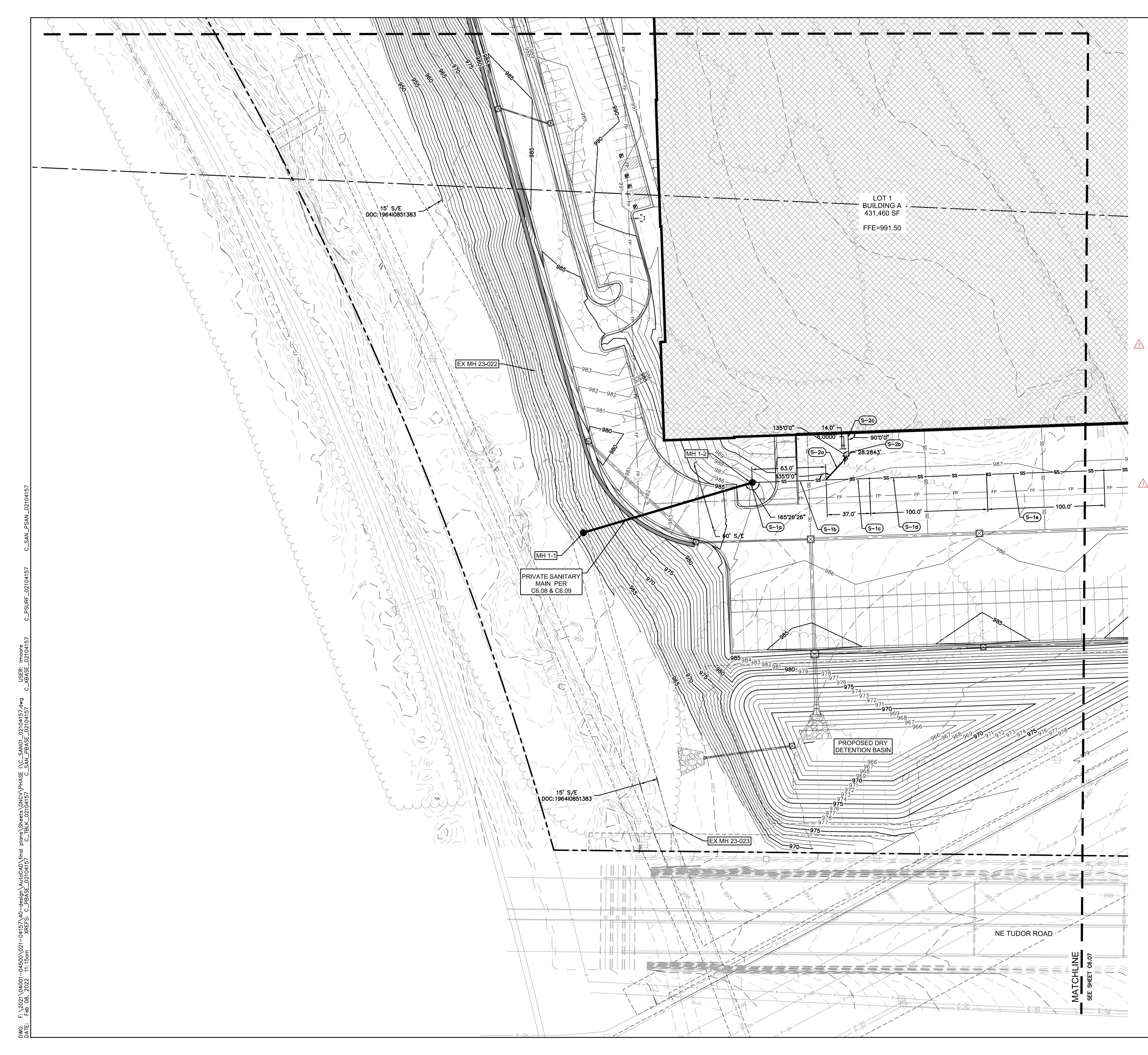
19. SANITARY STRUCTURES SHALL BE PER CURRENT CITY DETAILS. IF CITY DOES NOT HAVE PUBLISHED DETAILS STRUCTURES SHALL BE PER

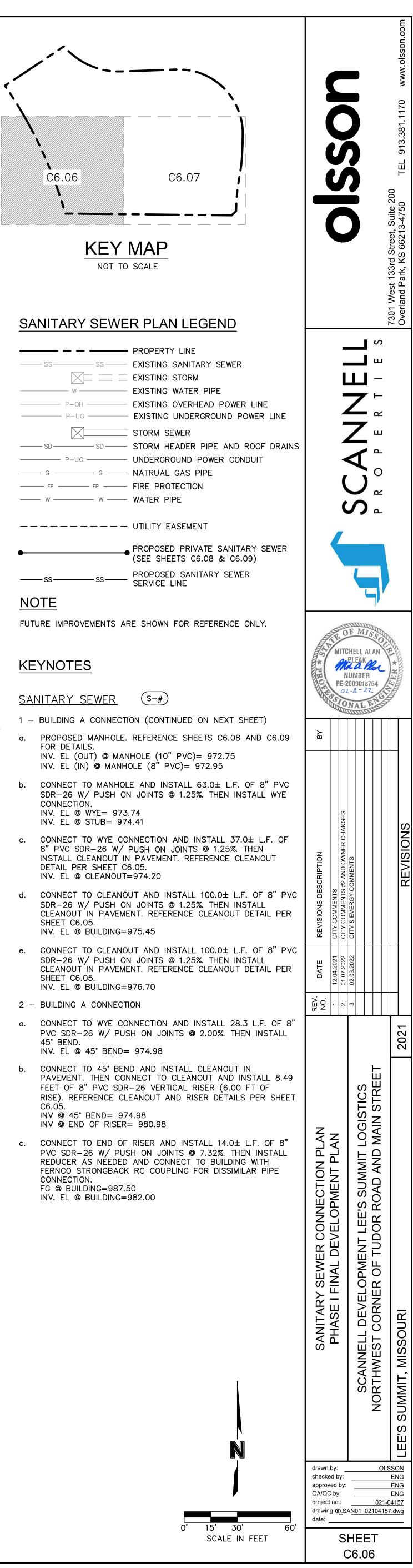
20. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10'HORIZONTALLY WHEN PARALLEL AND 2'VERTICALLY WHEN CROSSING. WATER LINES SHALL CROSS ABOVE SANITARY SEWERS.

ESTIMATE OF QUANTITIES AS-BUILT QUANTITIY ITEM NO. DESCRIPTION UNIT | QUANTITY | UNIT CONNECT TO EXISTING SANITARY SEWER EA. 1 EA. 10" PVC SDR-26 PIPE (MAIN LINE) 150.34 L.F. 2 L.F. STANDARD 4'-0" I.D. MANHOLE (8' DEEP) 2 EA. EA. 3

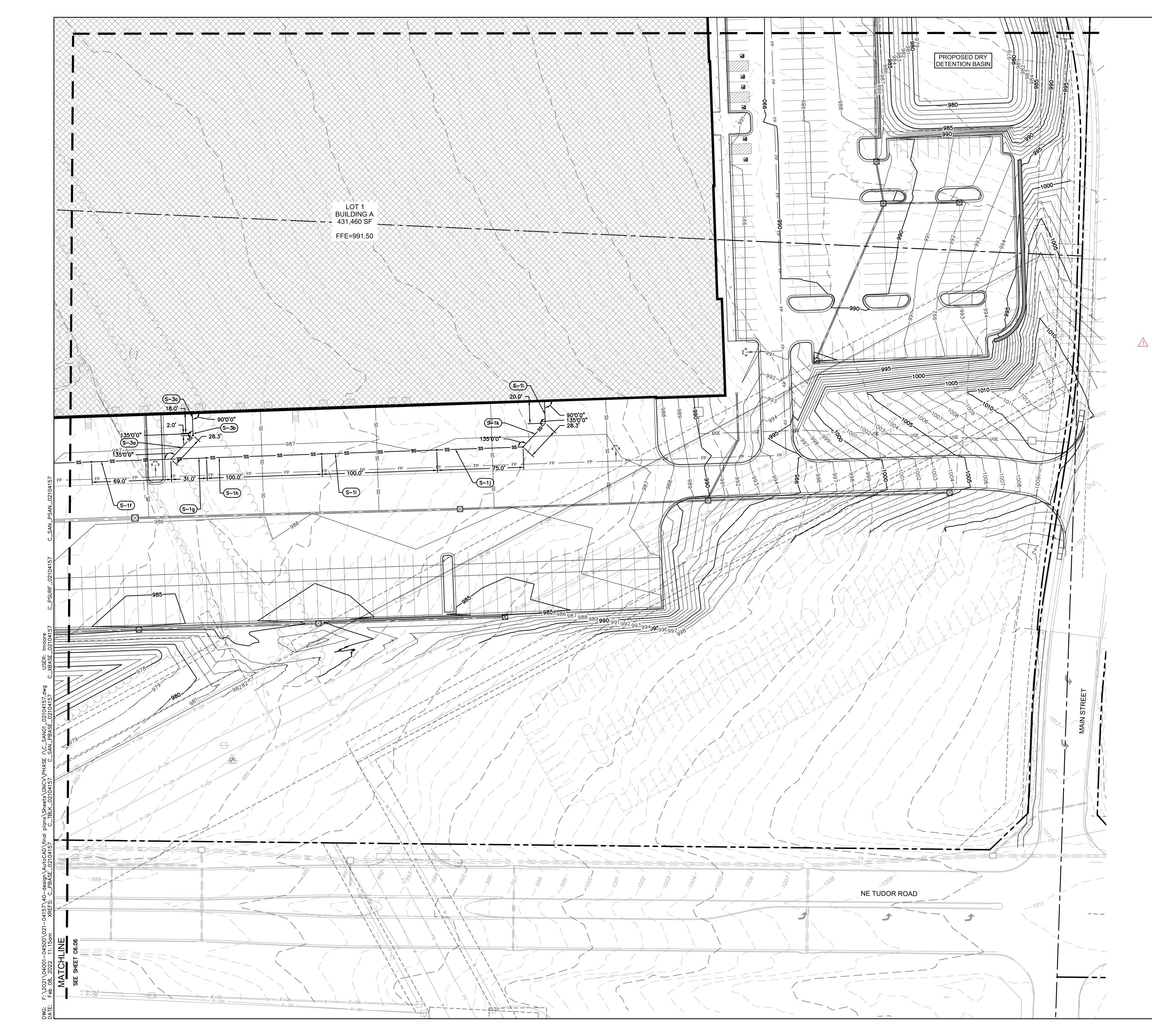
SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.







SS	SS	 PROPERTY LINE EXISTING SANITA EXISTING STORM EXISTING WATER EXISTING OVERHI
N		- EXISTING UNDER
		STORM SEWER STORM HEADER
		UNDERGROUND F
		- NATRUAL GAS P - FIRE PROTECTION
W	— W ——	- WATER PIPE
		- UTILITY EASEMEN
•		• PROPOSED PRIV (SEE SHEETS C6
SS	— ss ——	PROPOSED SANI SERVICE LINE
NOTE		



C6.07 C6.06 KEY MAP NOT TO SCALE

SANITARY SEWER PLAN LEGEND

		— —	PROPERTY LINE
	SS	SS	EXISTING SANITA
		$\equiv =$	EXISTING STORM
	V	/	EXISTING WATER
	——— P—	он	EXISTING OVERHI
	P_	UG	EXISTING UNDER
		X	STORM SEWER
	SD	SD	STORM HEADER
	P_	UG	UNDERGROUND F
	G	G	NATRUAL GAS P
	FP	FP	FIRE PROTECTION
	W	W	WATER PIPE
			UTILITY EASEMEN
(•		PROPOSED PRIVA
			v
	SS	SS	PROPOSED SANI SERVICE LINE

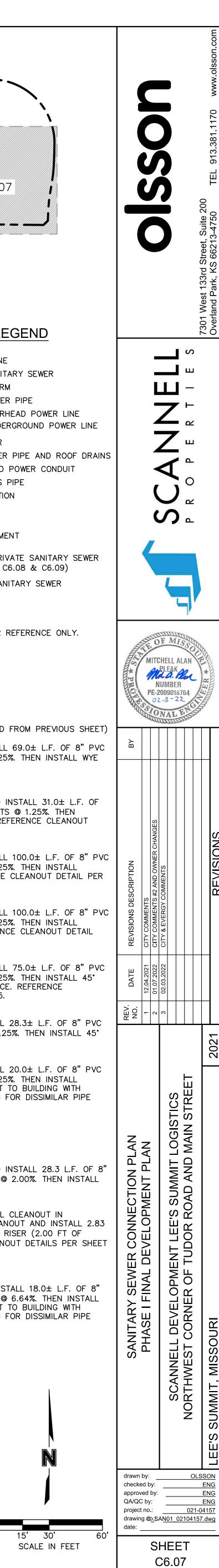
NOTE

FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

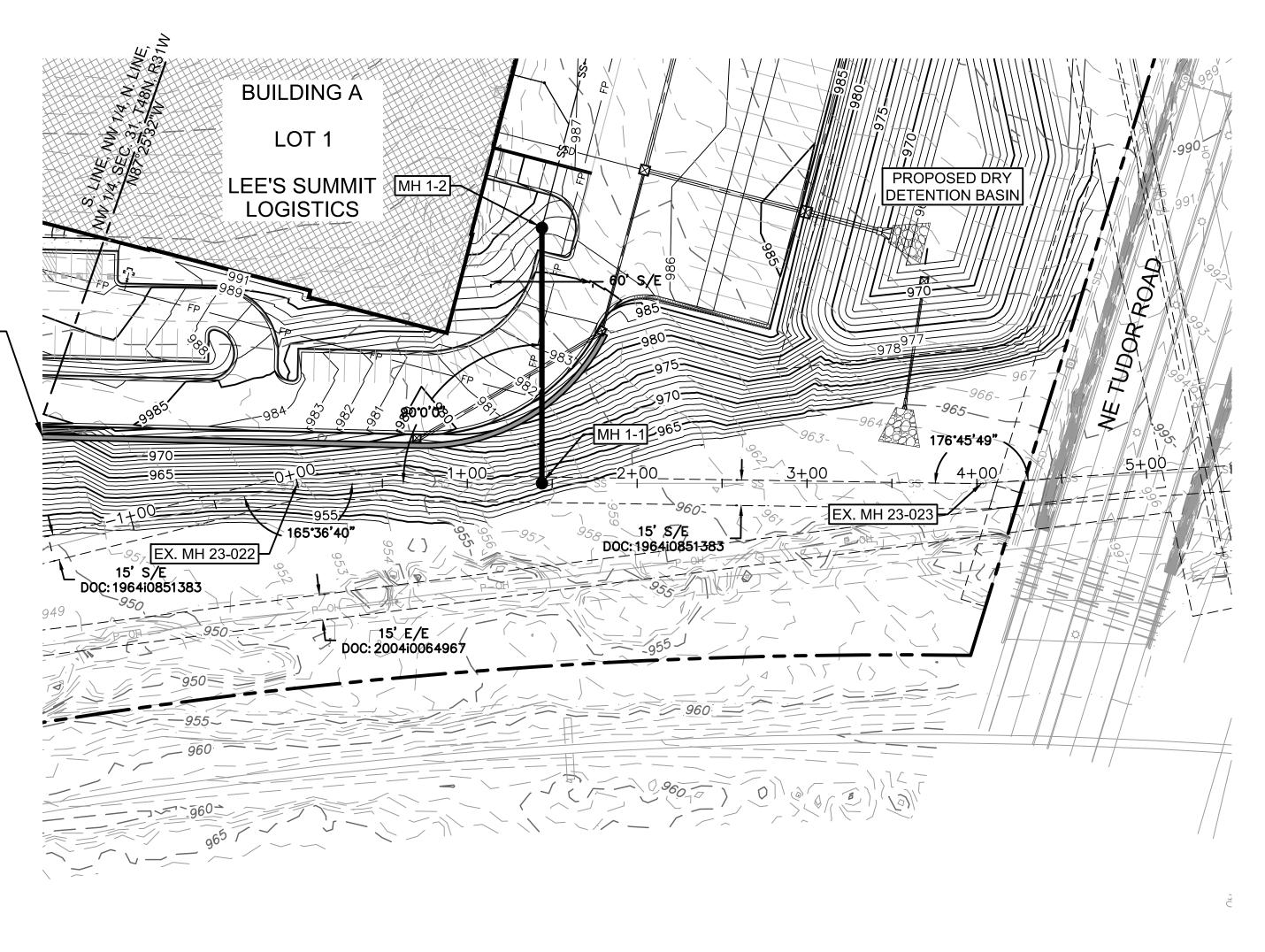
KEYNOTES

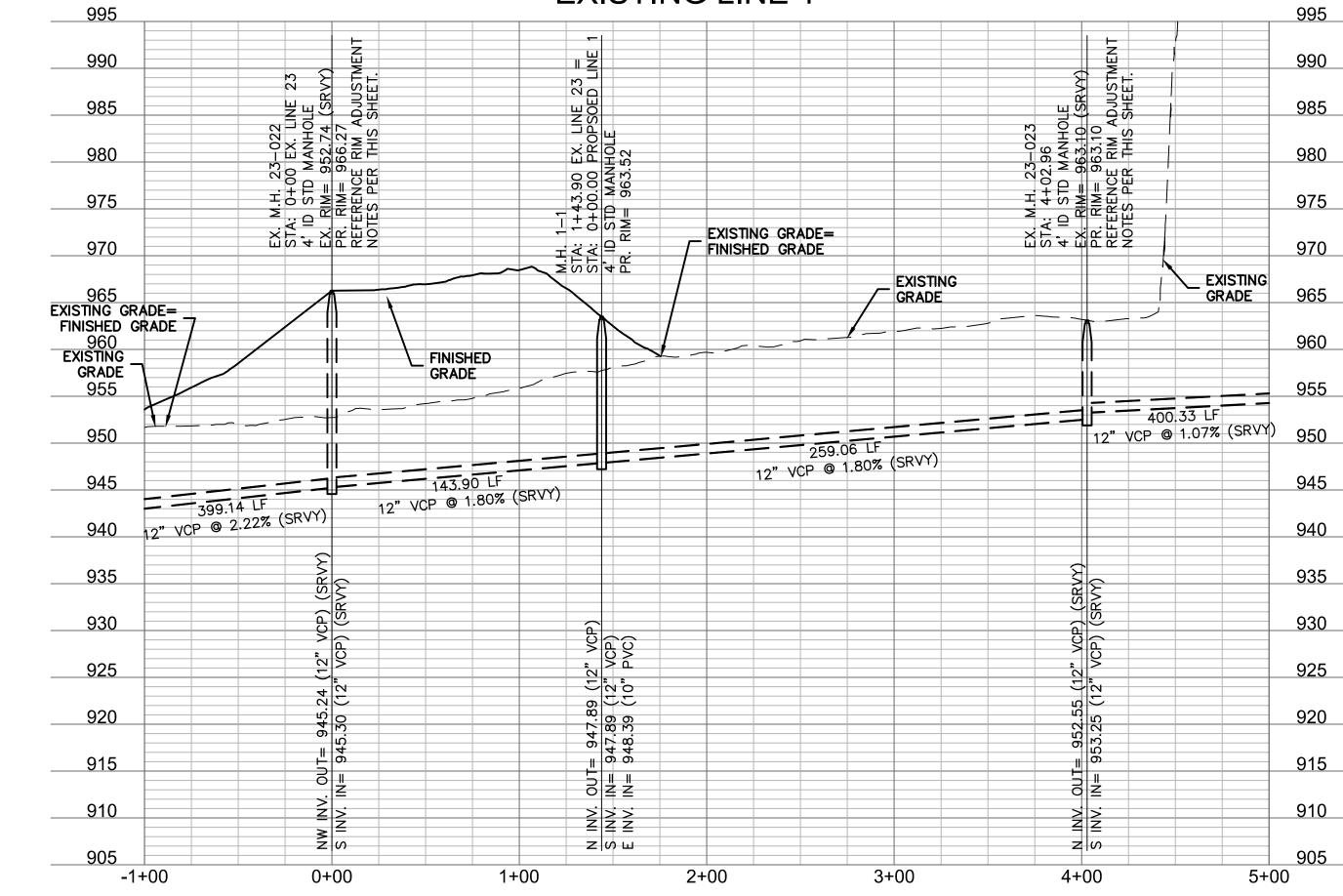
(S-#) SANITARY SEWER

- 1 BUILDING A CONNECTION (CONTINUED FROM PREVIOUS SHEET)
- f. CONNECT TO CLEANOUT AND INSTALL 69.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL WYE CONNECTION. INV. EL @ WYE= 977.57 INV. EL @ STUB= 978.24
- CONNECT TO WYE CONNECTION AND INSTALL 31.0 \pm L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05. INV. EL @ CLEANOUT= 977.95
- h. CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN PAVEMENT. REFERENCE CLEANOUT DETAIL PER SHEET C6.05. INV. EL @ CLEANOUT= 979.21
- CONNECT TO CLEANOUT AND INSTALL 100.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT IN GREENSPACE. REFERENCE CLEANOUT DETAIL PER SHEET C6.05. INV. EL @ CLEANOUT= 980.46
- CONNECT TO CLEANOUT AND INSTALL 75.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL 45" BEND AND CLEANOUT IN GREENSPACE. REFERENCE CLEANOUT DETAIL PER SHEET C6.05. INV. EL @ 45° BEND= 981.40
- k. CONNECT TO 45° BEND AND INSTALL 28.3± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS AT 1.25%. THEN INSTALL 45° BEND. INV. EL @ 45° BEND= 981.75
- CONNECT TO 45° BEND AND INSTALL 20.0± L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION. FG @ BUILDING=989.00 INV. EL @ BUILDING=982.00
- 3 BUILDING A CONNECTION
- a. CONNECT TO WYE CONNECTION AND INSTALL 28.3 L.F. OF 8" PVC SDR-26 W/ PUSH ON JOINTS @ 2.00%. THEN INSTALL 45° BEND. INV. EL @ 45° BEND= 978.81
- b. CONNECT TO 45° BEND AND INSTALL CLEANOUT IN PAVEMENT. THEN CONNECT TO CLEANOUT AND INSTALL 2.83 FEET OF 8" PVC SDR-26 VERTICAL RISER (2.00 FT OF RISE). REFERENCE RISER AND CLEANOUT DETAILS PER SHEET C6.05. INV @ 45° BEND= 978.81
- INV @ END OF RISER= 980.81
- c. CONNECT TO END OF RISER AND INSTALL 18.0± L.F. OF 8" PVC SDR—26 W/ PUSH ON JOINTS @ 6.64%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION. FG @ BUILDING=987.50 INV. EL @ BUILDING=982.00

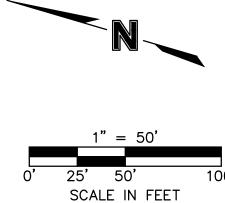


WALL





EXISTING LINE 1



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905 5+00



— — <i>830</i> — — —	EXISTING CON
	PROPOSED C

EASEMENT/SETBACK LEGEND

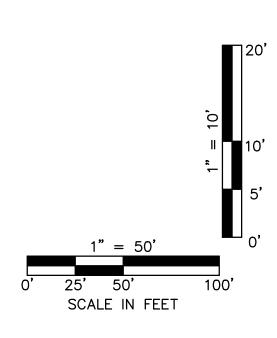
D/E STORM DRAINAGE EASEMENT S/B PROPERTY SETBACK S/E SANITARY SEWER EASEMENT

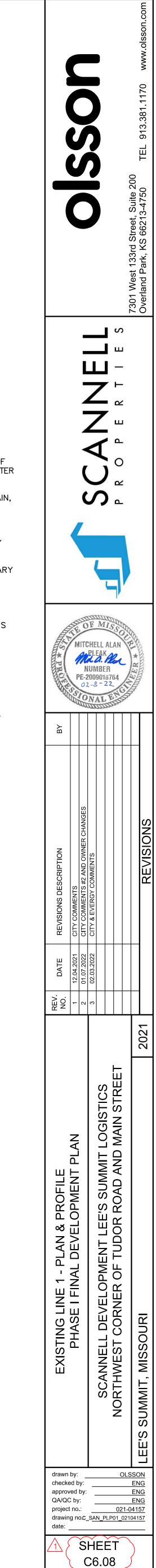
U/E UTILITY EASEMENT E/E ELECTRIC EASEMENT

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- 2. TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE.
- 3. IN THE EVENT OF WORK IN OR ON THE UG SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
- 4. FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
- 5. ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
- 6. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
- 7. MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
- 8. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER MAIN.
- RIM ADJUSTMENT NOTES:
- 1. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.

	STRUCTURES
ID	DESCRIPTION
EX. M.H. 23-022 0+00	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 966.27 52405.6950; 54765.5110 INV IN = 945.30 (12" VCP) INV OUT = 945.24 (12" VCP)
EX. M.H. 23-023 4+02.96	N: 52405.695; E: 54765.511 4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 963.10 52019.4100; 54880.2366 INV IN = 953.25 (12" VCP) INV OUT = 952.55 (12" VCP) N: 52019.410; E: 54880.237
M.H. 1-1 1+43.90	4' ID STD MANHOLE EXISTING SANITARY SEWER - LINE 1 RIM= 963.52 52267.7460; 54806.4815 INV IN = 947.89 (12" VCP) INV IN = 948.39 (10" PVC) INV OUT = 947.89 (12" VCP) N: 52267.746; E: 54806.481





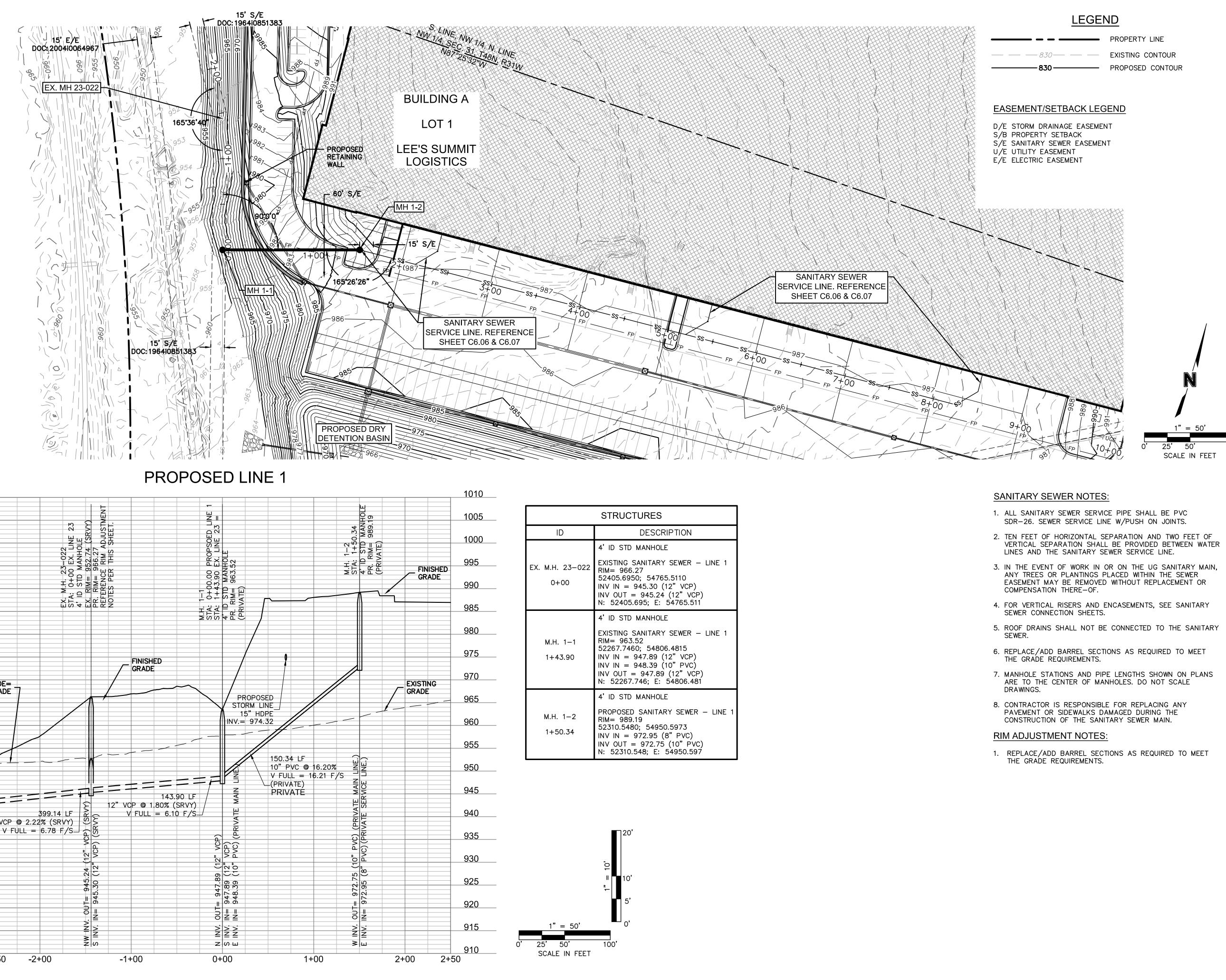
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CONTOUR

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975	
970 Existing GR/ Finished Gi 965	ADE= RADE
960 Existing Grade 955	
950	1
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<u> </u>	VCP
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<u>910</u> -2+	-50
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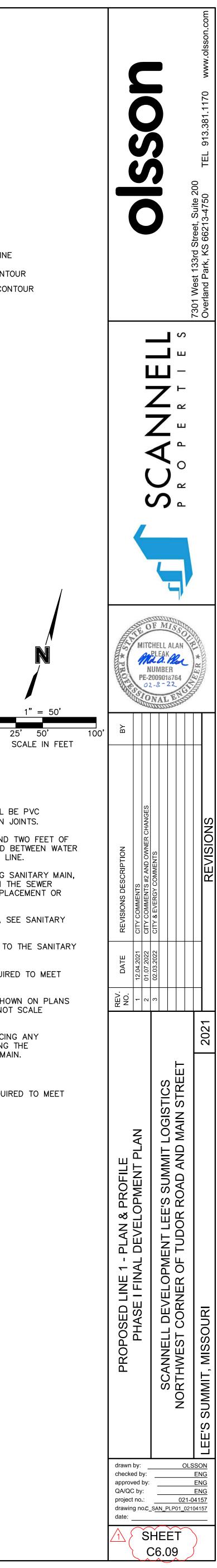
____1005



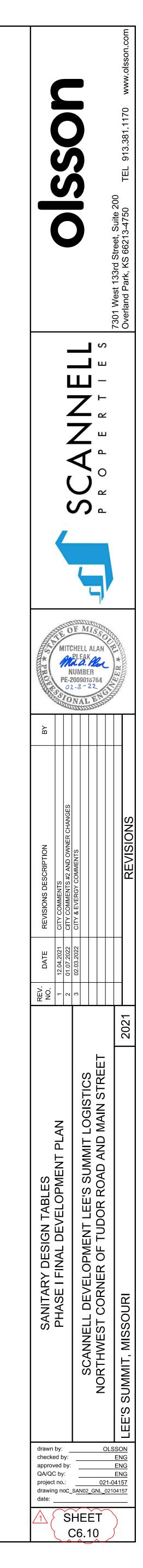
	STRUCTURES					
	DESCRIPTION					
	4' ID STD MANHOLE					
22	EXISTING SANITARY SEWER - LINE 1 RIM= 966.27 52405.6950; 54765.5110 INV IN = 945.30 (12" VCP) INV OUT = 945.24 (12" VCP) N: 52405.695; E: 54765.511					
	4' ID STD MANHOLE					
	EXISTING SANITARY SEWER - LINE 1 RIM= 963.52 52267.7460; 54806.4815 INV IN = 947.89 (12" VCP) INV IN = 948.39 (10" PVC) INV OUT = 947.89 (12" VCP) N: 52267.746; E: 54806.481					
	4' ID STD MANHOLE					
	PROPOSED SANITARY SEWER - LINE 1 RIM= 989.19 52310.5480; 54950.5973 INV IN = 972.95 (8" PVC) INV OUT = 972.75 (10" PVC) N: 52310.548; E: 54950.597					

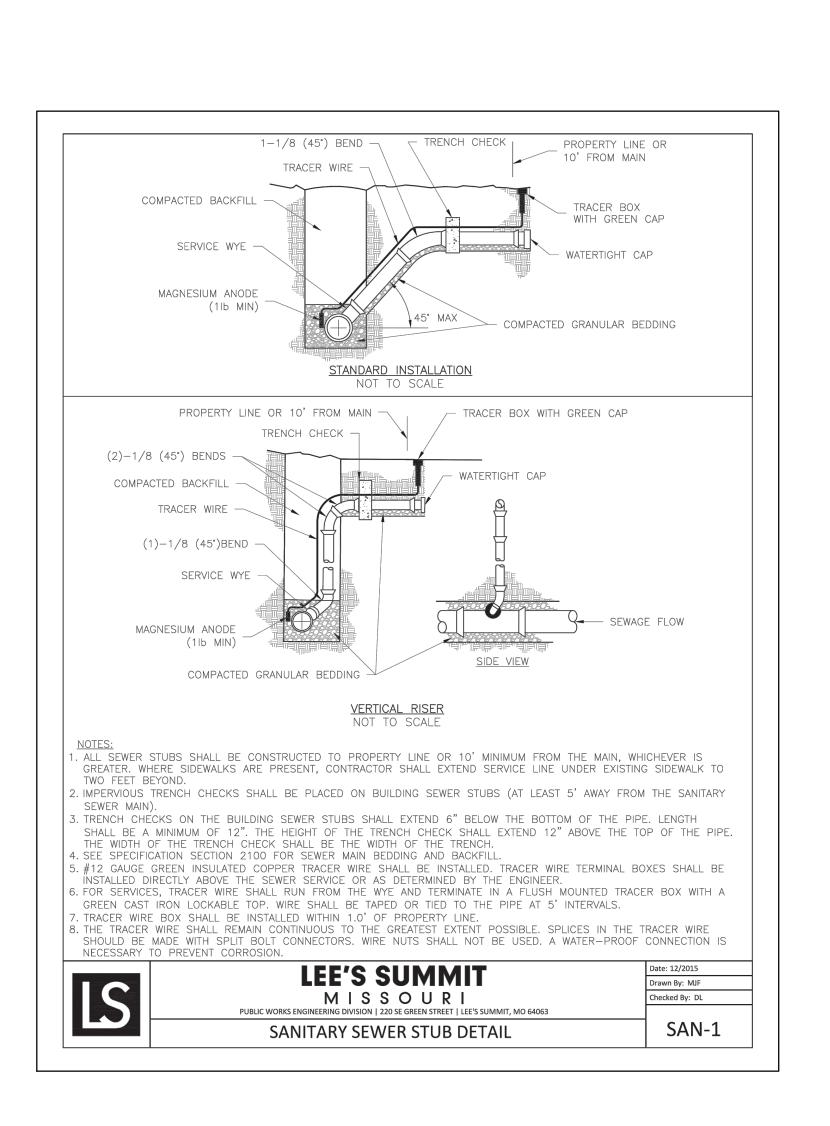
- SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR

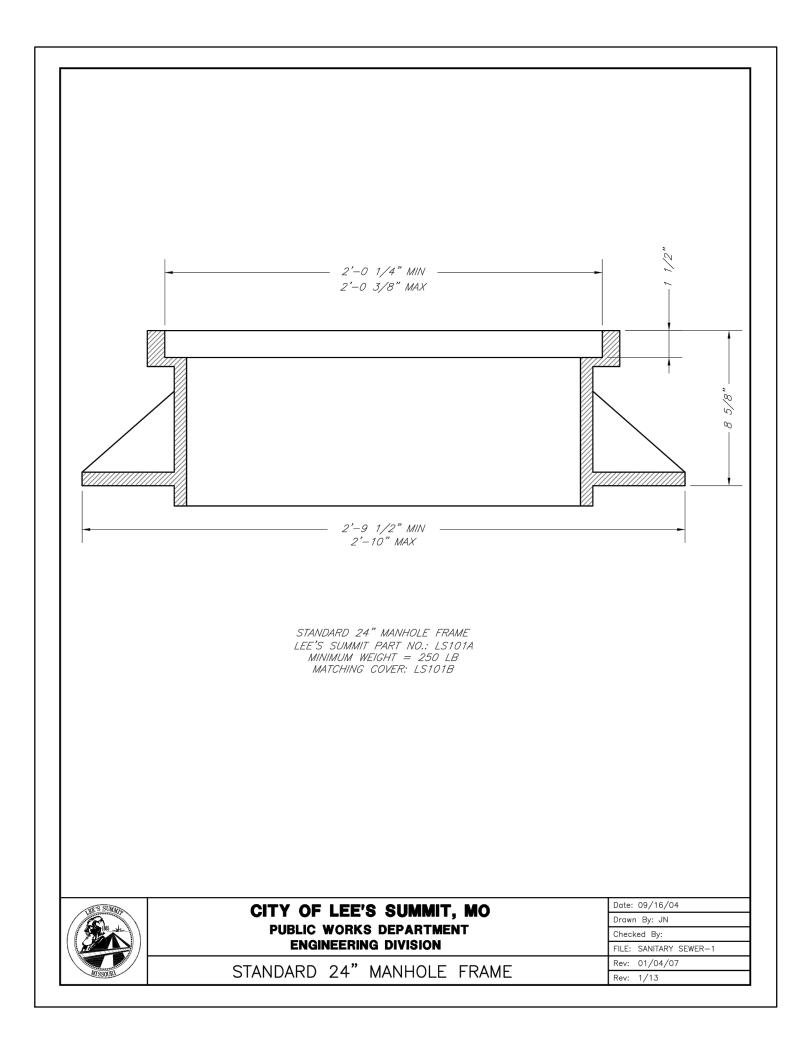
- 8. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER MAIN.
- 1. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET

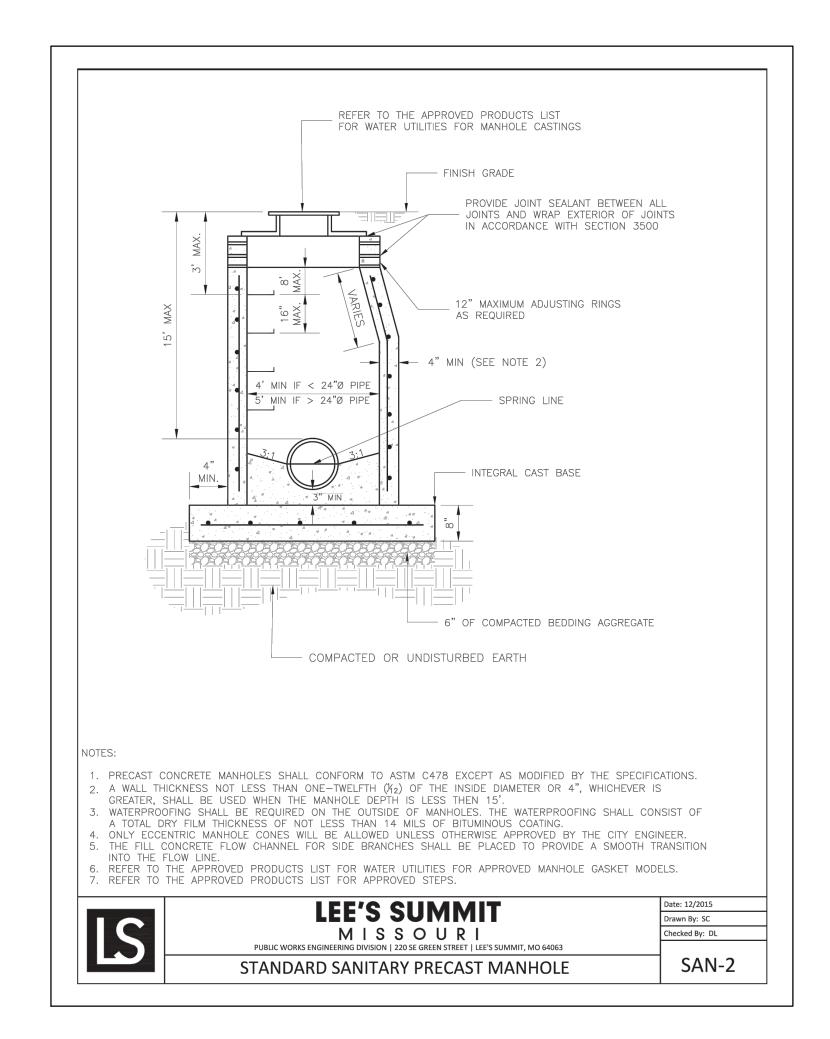


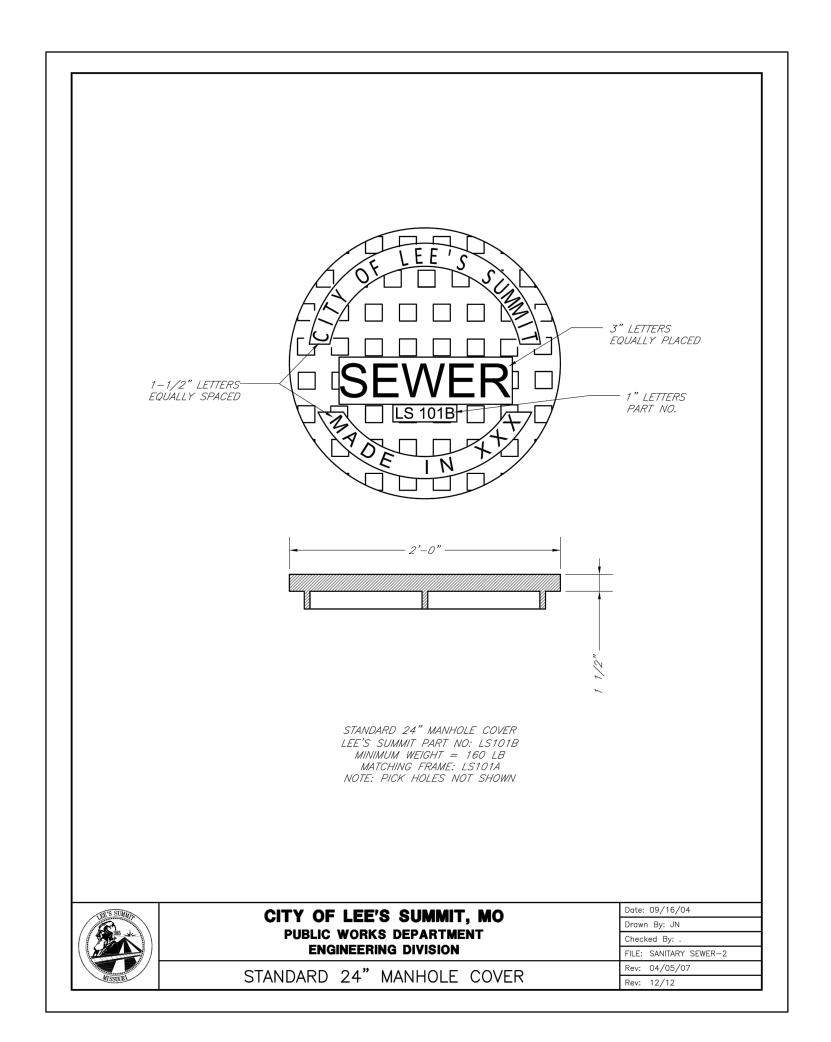
	Sanitary Sewer Design Information										
Upstream Manhole	Downstream Pipe Slope	Downstream Pipe Diameter	Proposed Cumulative Area	Future Cumulative Area	Peak Base Flow 50-Year Design	Peak Inflitration Flow 50-Year Design	Peak Inflow 50-Year Design	Total Peak Flow	Downstream Pipe Mannings N	Downstream Pipe Capacity	Downstream Pipe Full Flow Velocity
	(%)	(in)	(Ac.)	(Ac.)	(gpd)	(gpd)	(cfs)	(cfs)		(cfs)	(fps)
EX MH 23-022	1.80%	12	304.38	0.00	456570.00	152190.000	4.007	4.949	0.014	4.44	5.65
MH 1-1	16.20%	10	39.38	0.00	59070.00	19690.000	0.948	1.070	0.014	8.19	15.01

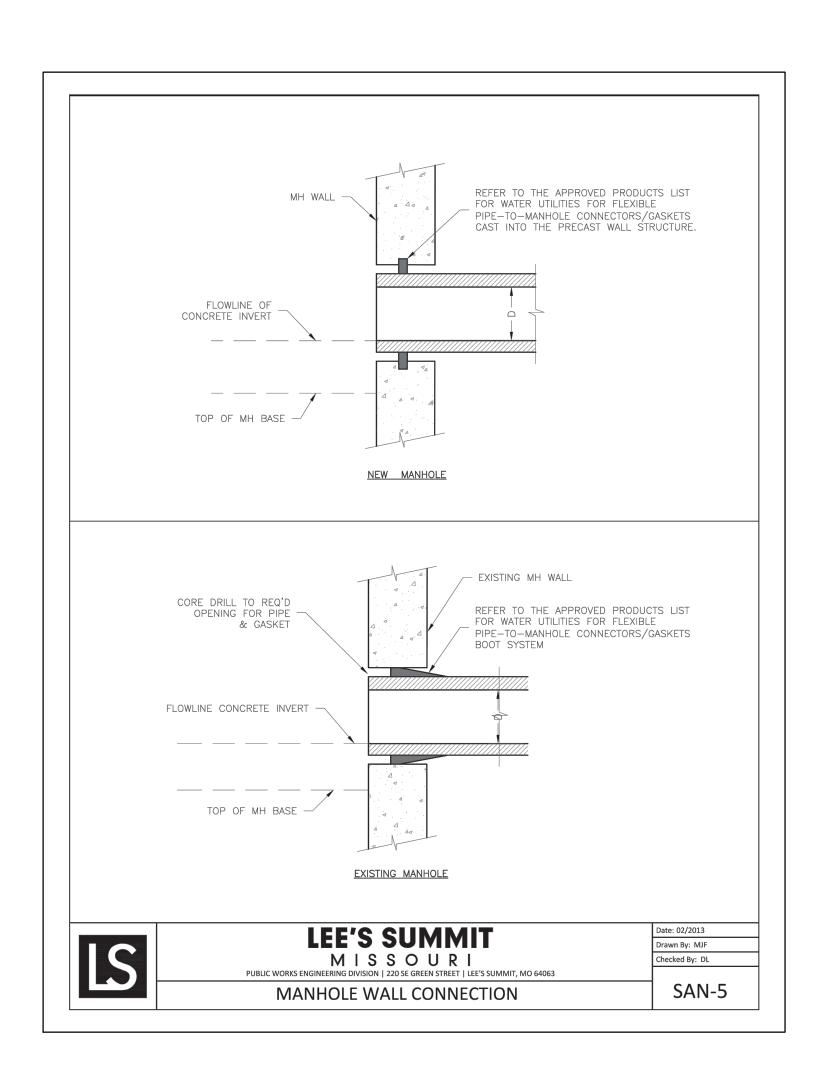


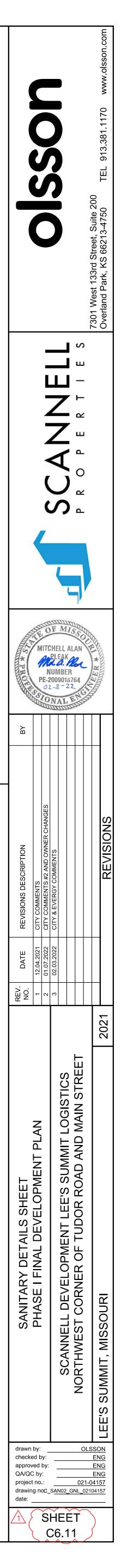


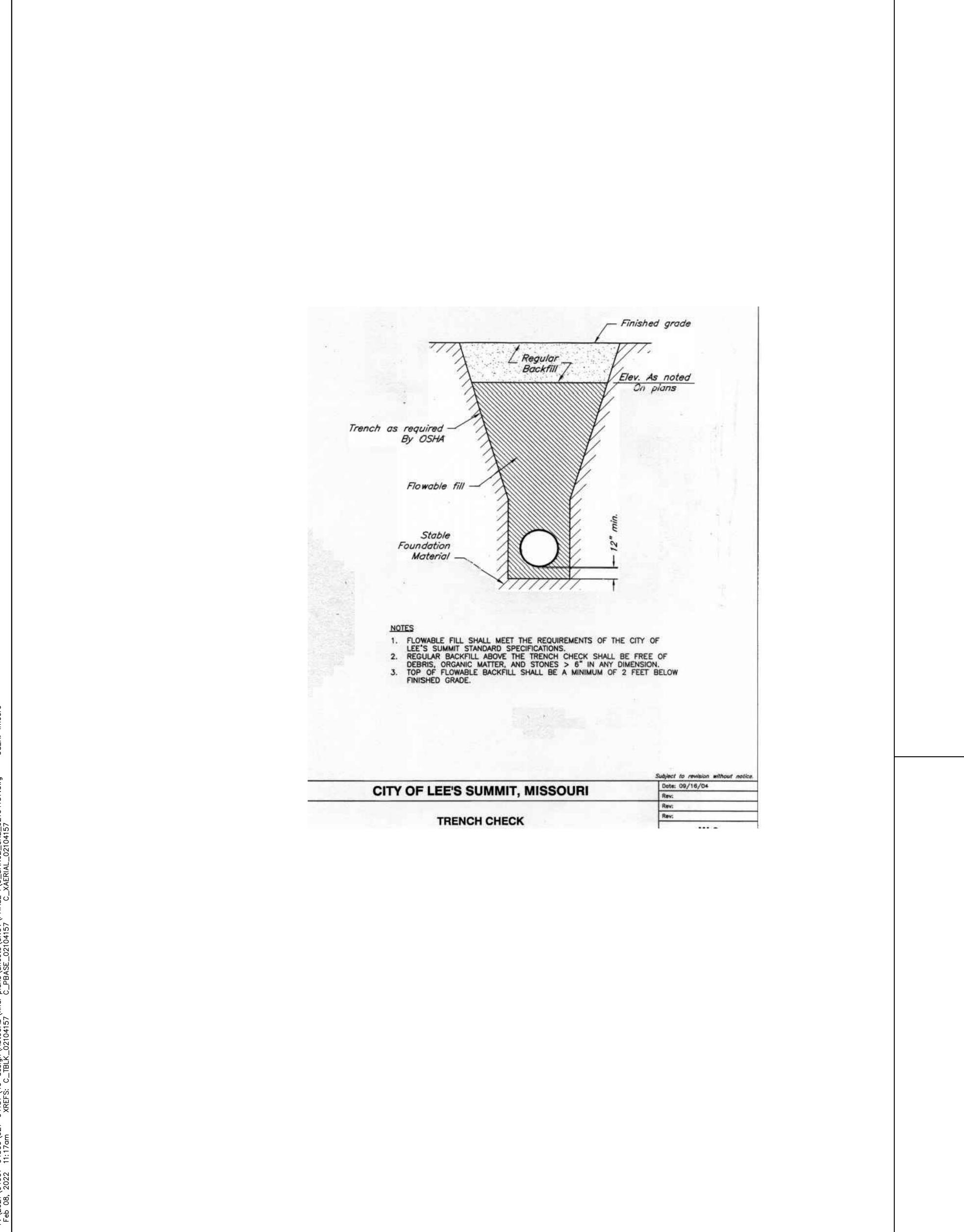




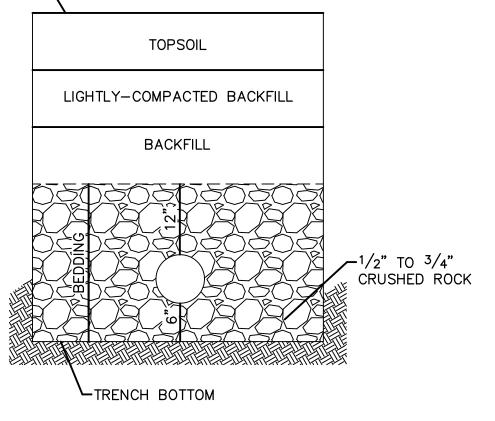






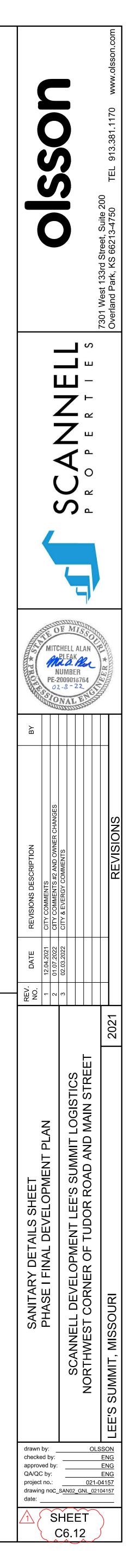


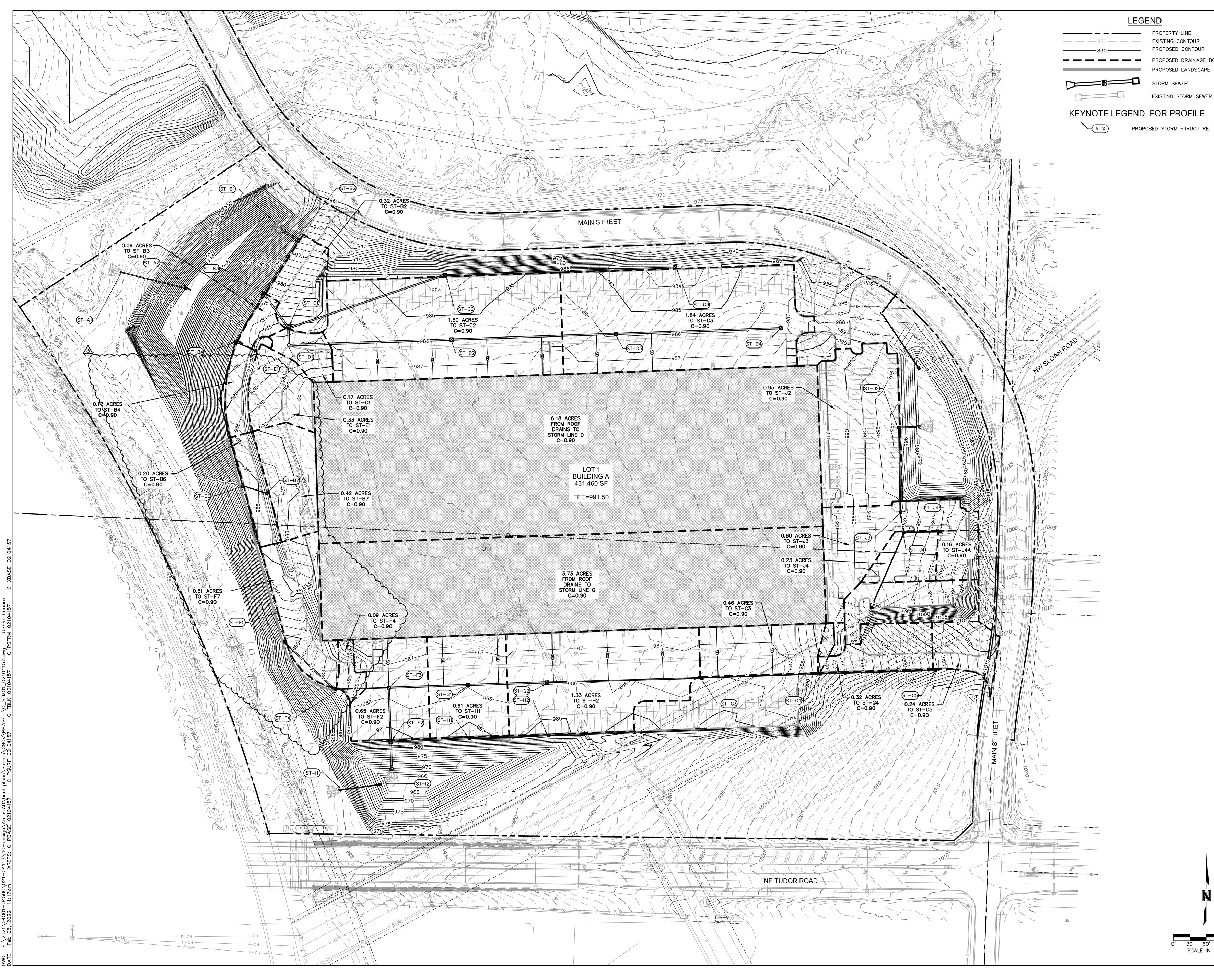
EXISTING GROUND OR -FINISHED GRADE



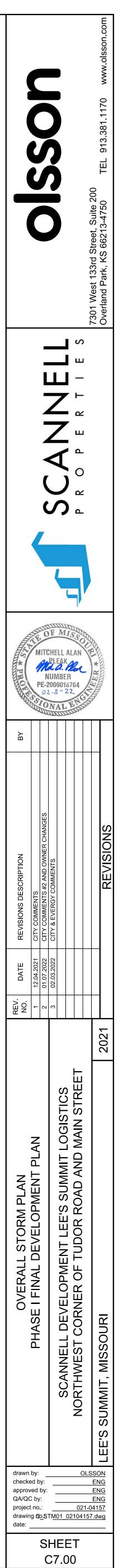
UNDERGROUND PIPE INSTALLATION FOR SANITARY SEWER

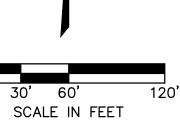
<u>NOTES:</u> 1. A MINIMUM OF 36 INCHES OF COVER SHALL BE OVER THE TOP OF THE PIPE. THIS MINIMUM OF COVER SHALL BE FROM THE TOP OF PIPE TO THE FINISHED GRADE. 2. BEDDING AGGREGATE MATERIAL SHALL BE PER SECTION 6900 AND 2102 OF THE CITY DESIGN AND CONSTRUCTION MANUAL. BEDDING AGGREGATE SHALL BE PLACED FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 12 INCHES ABOVE THE TOP OF THE PIPE. 3. BACKFILL MATERIAL AND PLACEMENT SHALL BE PER SECTION 6900 AND 2102 OF THE CITY DESIGN AND CONSTRUCTION MANUAL. 4. TRENCHING SHALL BE IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. SLOPES MUST NOT EXTEND BELOW TOP OF BEDDING. 5. MINIMUM AND MAXIMUM TRENCH WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.

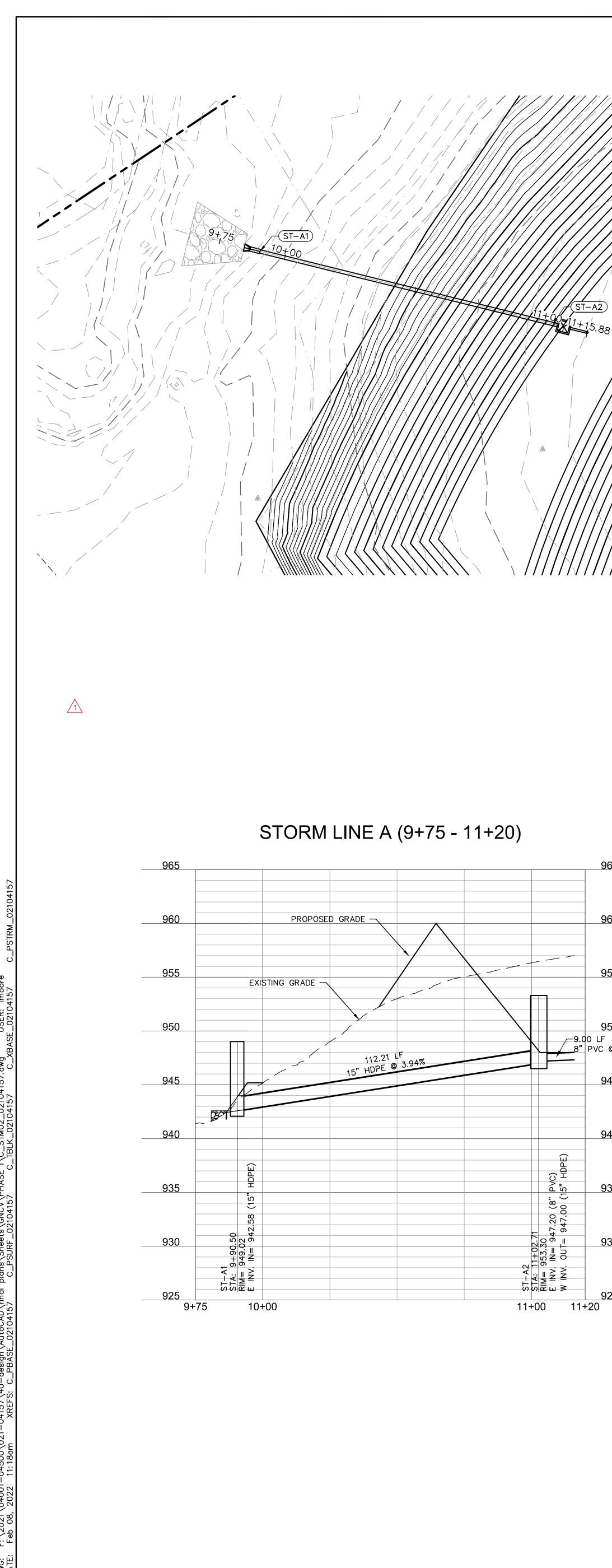


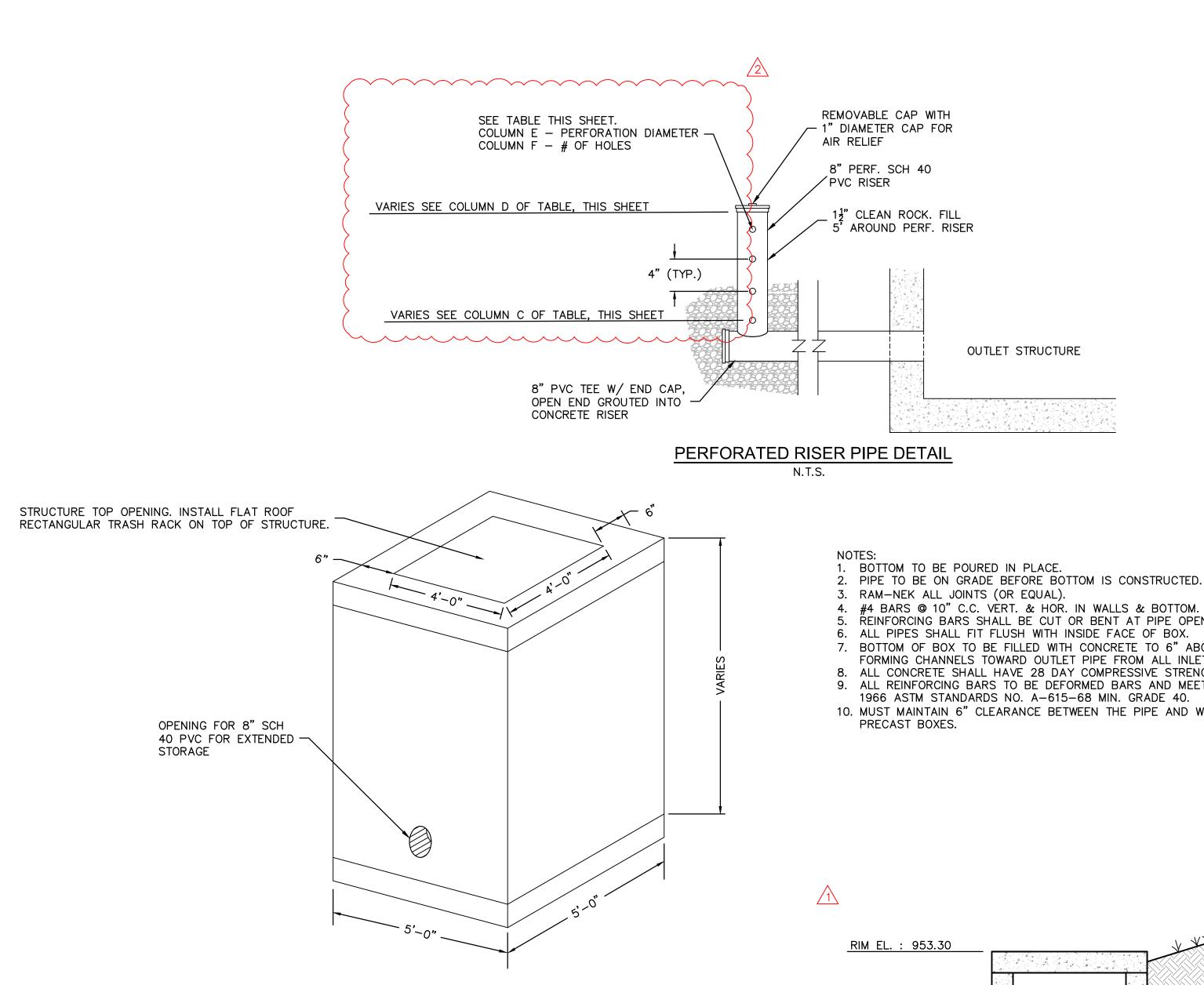


PROPOSED DRAINAGE BOUNDARIES PROPOSED LANDSCAPE WALL

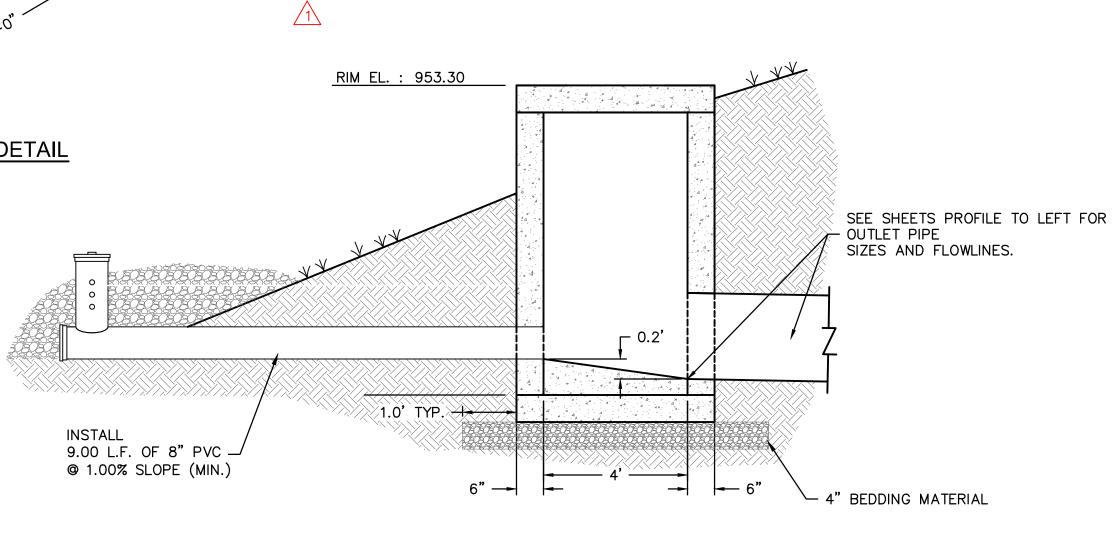








OUTLET STRUCTURE DETAIL N.T.S.



OUTLET STRUCTURE AND PERFORATED RISER INFORMATION						
A B C D E F						
DETENTION FACILITY	STRUCTURE ID	BOTTOM PERFORATION ELEVATION	TOP ELEVATION OF PERFORATED PIPE	PERFORATION DIAMETER	# OF PERFORATION HOLES	
B4	ST-A2	947.00	950.33	1-1/8" (1.1")	10	

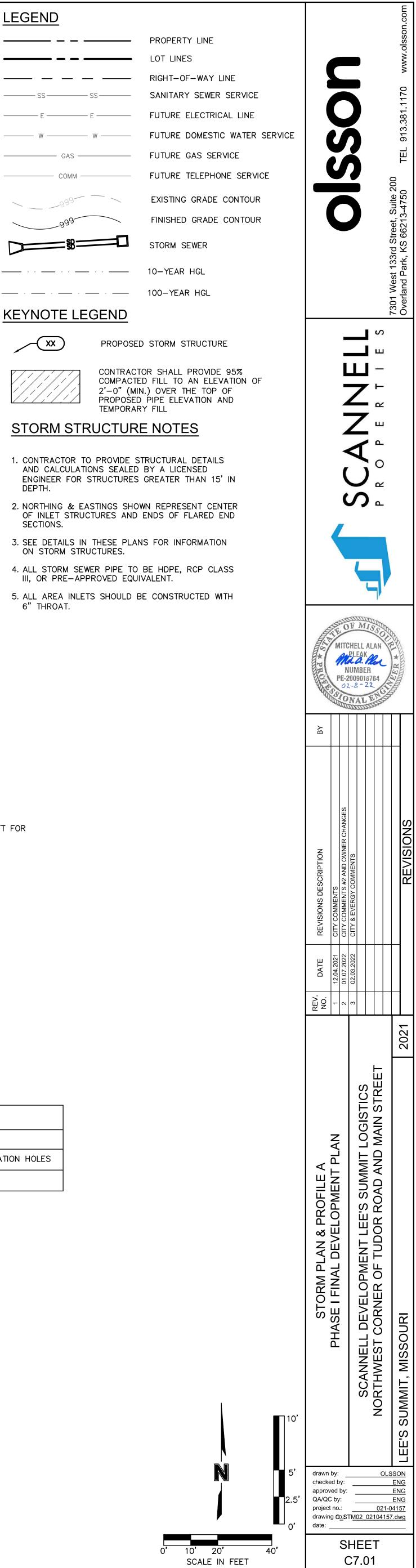
960 955 STRUCTURES DESCRIPTION 15" CONCRETE FLARED END SECTION WITH TOE WALL 9+90.50, 0.09' RT ST-A1 STORM LINE A 950 <u>8</u>" PVC @ 1.00% MIN. INV IN = 942.58 (15" HDPE) N: 53017.967; E: 54517.822 945 4'X4' JUNCTION BOX REFERENCE DETAIL ON SHEET. 11+02.71, 0.02' RT ST-A2 STORM LINE A 940 RIM= 953.30 935

930 925

965

- 2. PIPE TO BE ON GRADE BEFORE BOTTOM IS CONSTRUCTED.
- REINFORCING BARS SHALL BE CUT OR BENT AT PIPE OPENINGS.
- 7. BOTTOM OF BOX TO BE FILLED WITH CONCRETE TO 6" ABOVE INVERT OF PIPE
- FORMING CHANNELS TOWARD OUTLET PIPE FROM ALL INLET PIPES. 8. ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 9. ALL REINFORCING BARS TO BE DEFORMED BARS AND MEET REQUIREMENTS OF
- 10. MUST MAINTAIN 6" CLEARANCE BETWEEN THE PIPE AND WALLS FOR



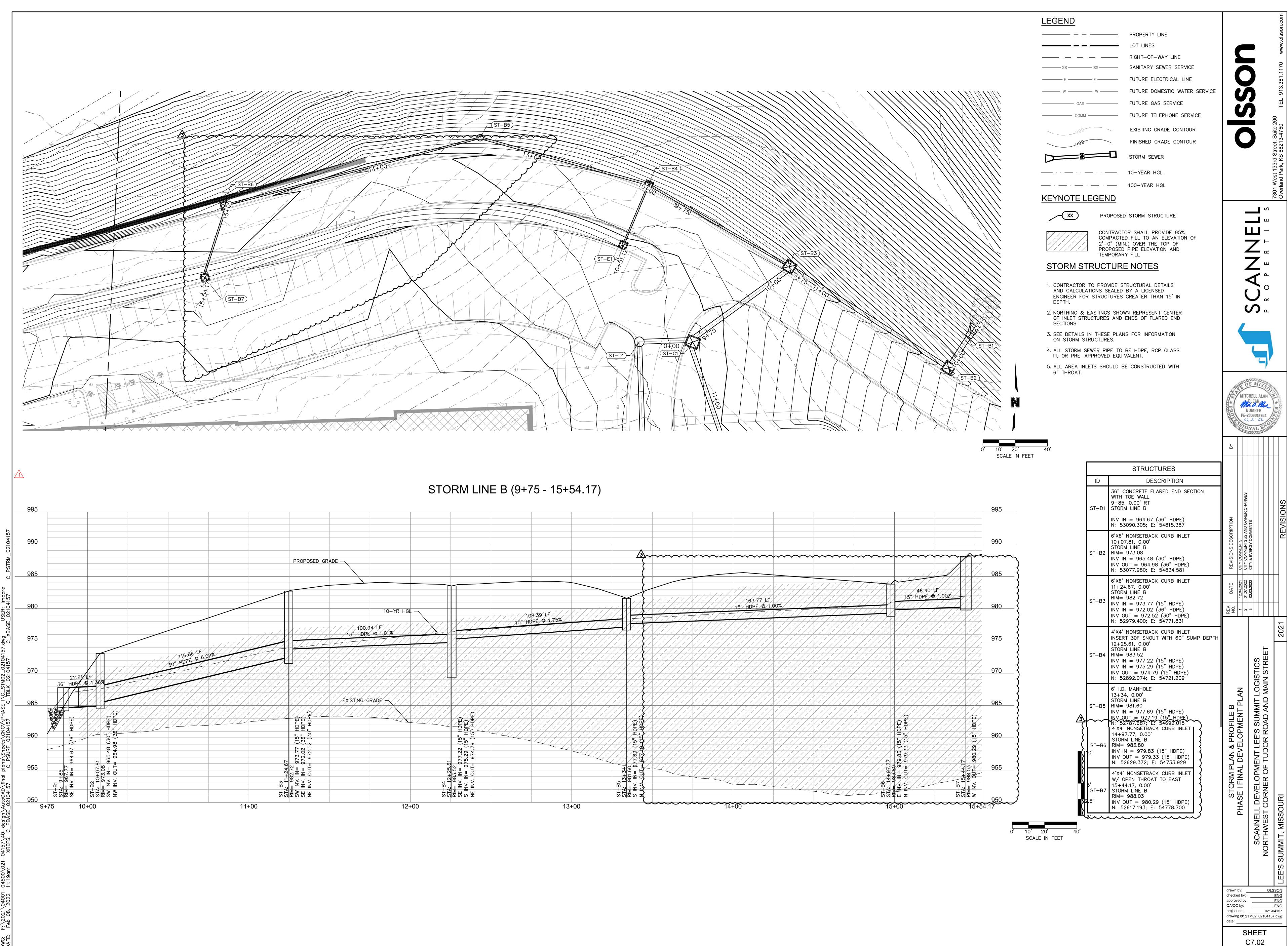


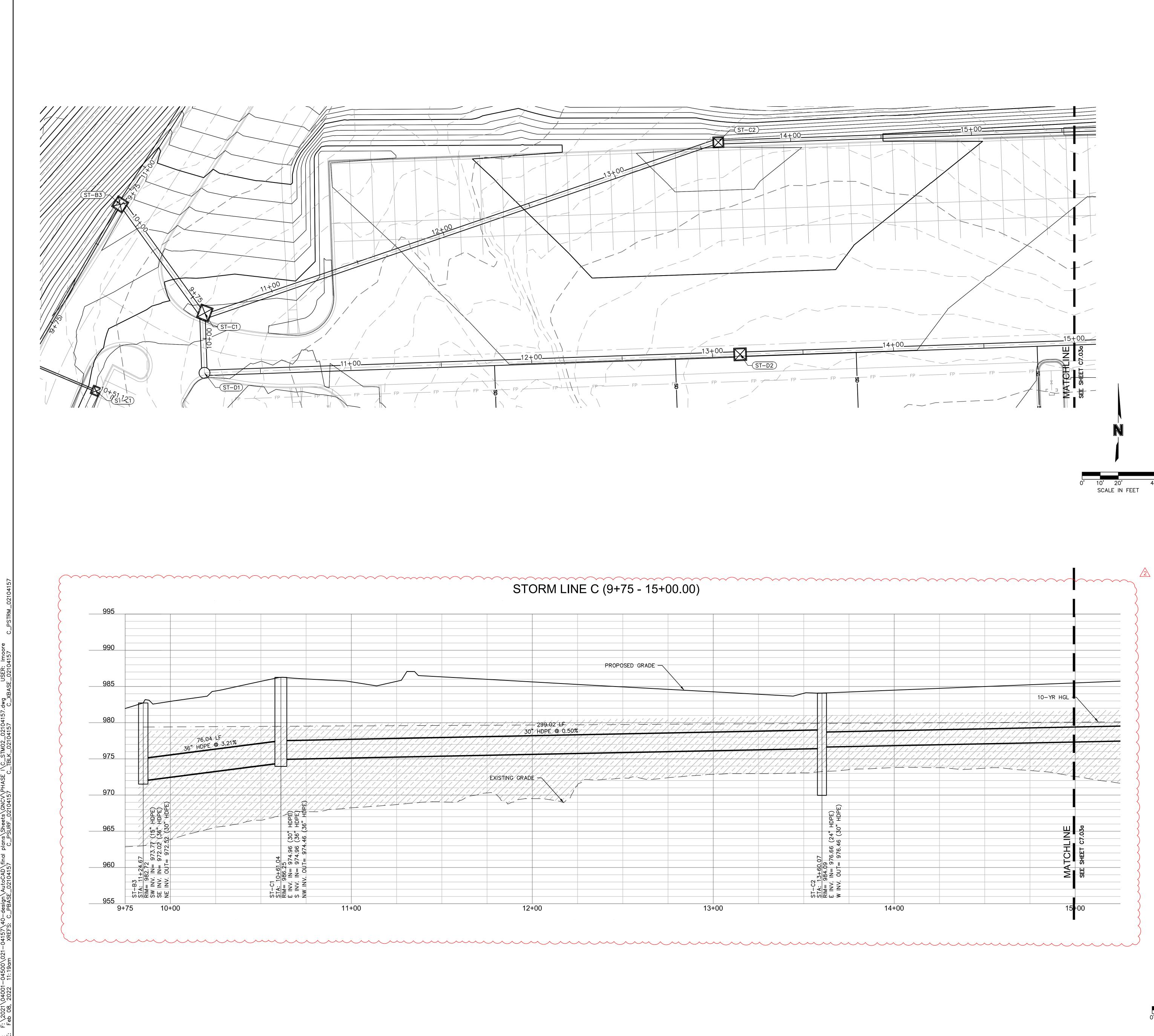
KEYNOTE LEGEND

/xx

- 1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED
- DEPTH. 2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END
- SECTIONS. 3. SEE DETAILS IN THESE PLANS FOR INFORMATION
- 5. ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

SECTION THROUGH OUTLET STRUCTURE N.T.S.

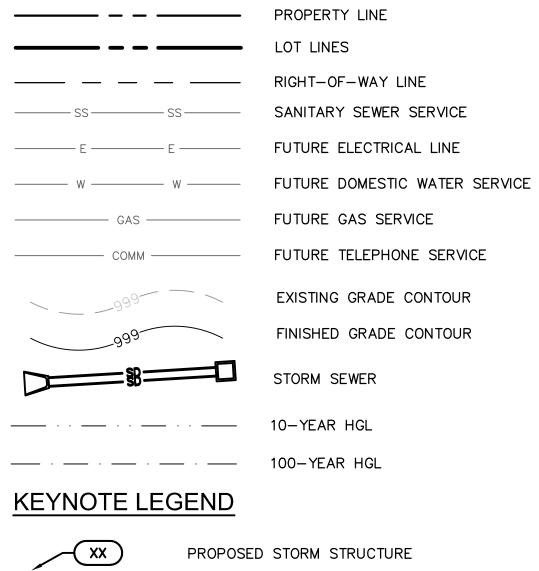




	PROPOSED GRADE				
				10-YR HGL	
		·/,{/;/,//,/////////////////////////////			
			RIM= 984.09 E INV. IN= 976.66 W INV. OUT= 976.46 MINV. OUT= 976.46		SEE SHEET C7.03d
			976.44	Ц Н Н	
				ATC 1	
				Σ	
12+00	13+00		14+00	15	+00

	STRUCTURES
ID	DESCRIPTION
ST-C1	6'X7' NONSETBACK CURB INLET 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE) INV IN = 974.96 (36" HDPE) INV OUT = 974.46 (36" HDPE) N: 52919.441; E: 54818.600
ST-C2	5'X5' NONSETBACK CURB INLET INSERT 36FTB SNOUT WITH 75" 13+60.07, 0.00' STORM LINE C RIM= 984.09 INV IN = 976.66 (24" HDPE) INV OUT = 976.46 (30" HDPE) N: 53013.717; E: 55102.372
ST-C3	5'X5' NONSETBACK CURB INLET 17+80.07, -0.09' LT STORM LINE C RIM= 983.89 INV OUT = 978.76 (24" HDPE) N: 53028.241; E: 55522.121

LEGEND



PROPOSED STORM STRUCTURE

CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

- 1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- 2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- 3. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- 4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- 5. ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

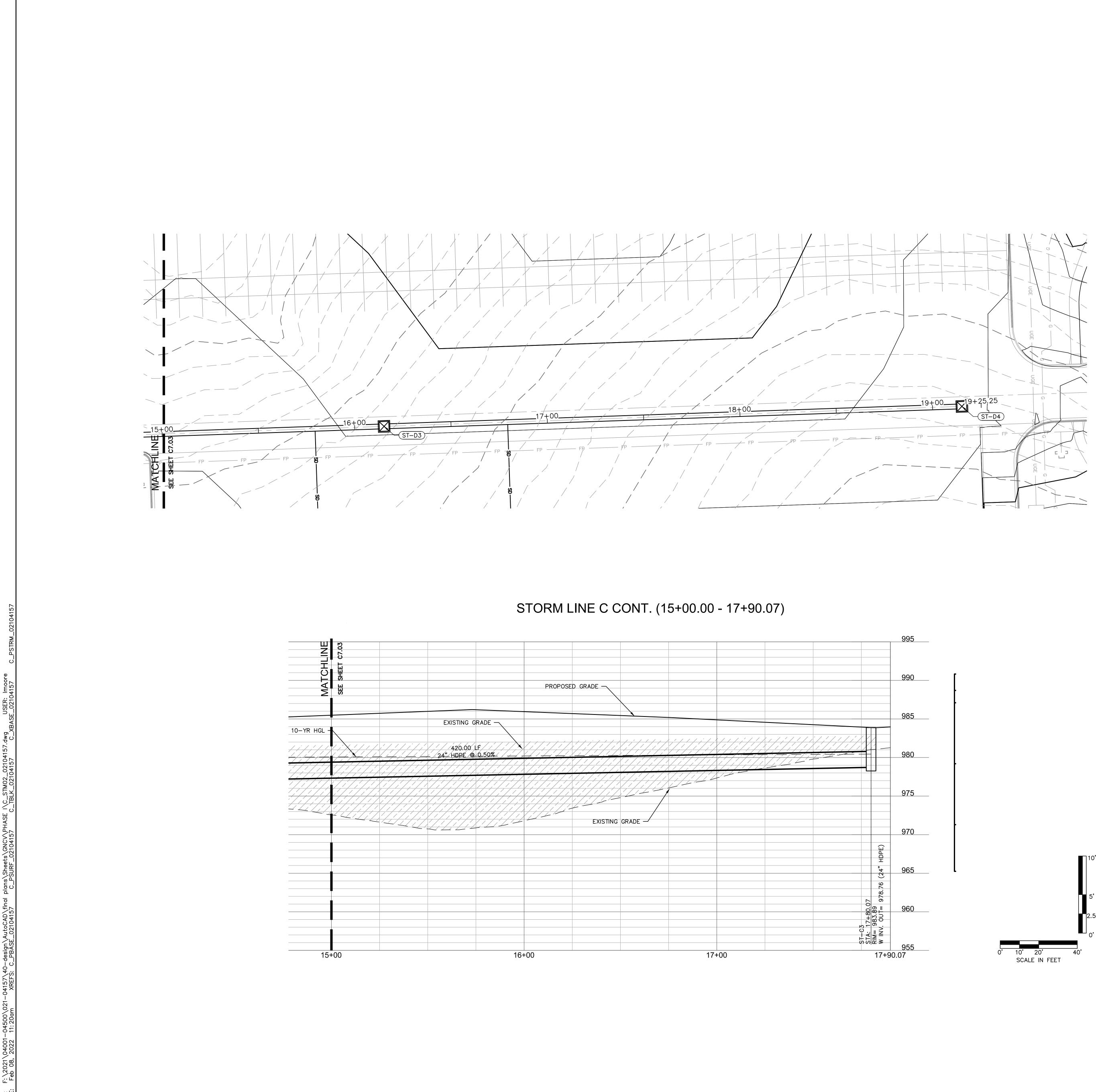
r	10'	20'		
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	SCALE	E IN	FEET	

□2.5′

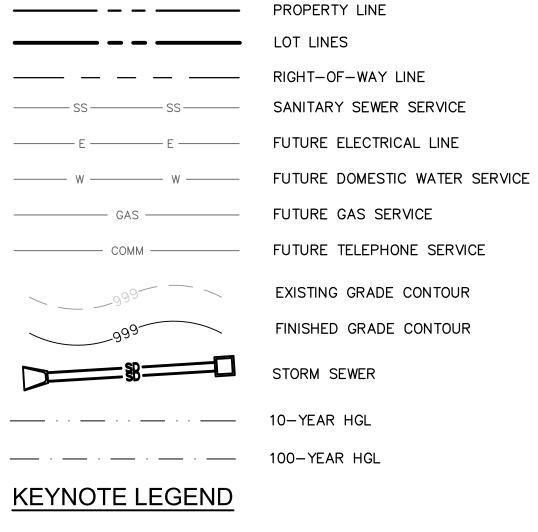
40'

S EXISTING GRADE CONTOUR FINISHED GRADE CONTOUR S ш Ш – -7 **∠** " Ŭ ິ ໂ ເ F MIS MITCHELL ALAN PLEAK NUMBER PE-2009018764 02-8-22 NAL 75" SUMP DEPTH REV. DATE REVL NO. 12.04.2021 CITY COMMEN 2 01.07.2022 CITY & EVERG 2 02.03.2022 CITY & EVERG 202 STORM PLAN & PROFILE C PHASE I FINAL DEVELOPMENT PLAN SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET JMMIT, MISSOURI 0 ш OLSSON drawn by: checked by: ENG ENG approved by: QA/QC by: ENG project no.: 021-04157 drawing 00_\$TM02_02104157.dwg date: _____ SHEET

C7.03



LEGEND





2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

- STORM STRUCTURE NOTES
- 1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- 2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- 3. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- 4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

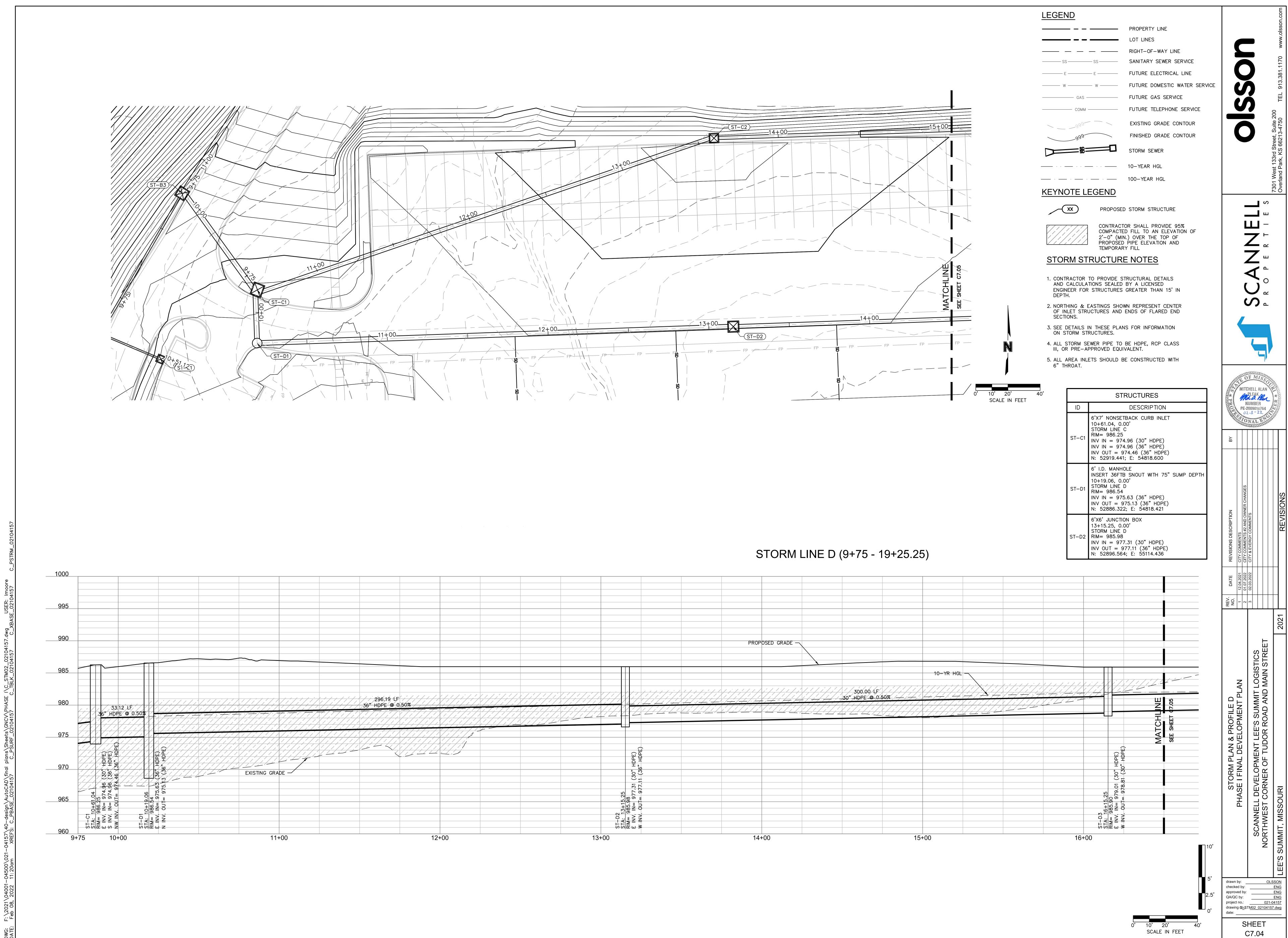
	STRUCTURES						
ID	DESCRIPTION						
ST-C1	6'X7' NONSETBACK CURB INLET 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE) INV IN = 974.96 (36" HDPE) INV OUT = 974.46 (36" HDPE) N: 52919.441; E: 54818.600						
ST-C2	5'X5' NONSETBACK CURB INLET INSERT 36FTB SNOUT WITH 75" SUMP DEPTH 13+60.07, 0.00' STORM LINE C RIM= 984.09 INV IN = 976.66 (24" HDPE) INV OUT = 976.46 (30" HDPE) N: 53013.717; E: 55102.372						
ST-C3	5'X5' NONSETBACK CURB INLET 17+80.07, -0.09' LT STORM LINE C RIM= 983.89 INV OUT = 978.76 (24" HDPE) N: 53028.241; E: 55522.121						

0' 10' 20' SCALE IN FEET

S EXISTING GRADE CONTOUR FINISHED GRADE CONTOUR S ш Ш – CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF Z - A Ű S[¬] MITCHELL ALAN NUMBER PE-2009018764 12.04.2021 01.07.2022 02.03.2022 NO N OPMENT LEE'S SUMMIT LOGISTICS R OF TUDOR ROAD AND MAIN STREE AN AND PROFILE C CONT. NAL DEVELOPMENT PLAN STORM PL/ PHASE I FII SCANNELL DEVEL DRTHWEST CORNE IMIT, MISSOURI OLSSON drawn by: checked by: ENG approved by: ENG QA/QC by: ENG project no.: 021-04157 drawing 00_STM02_02104157.dwg date: date:

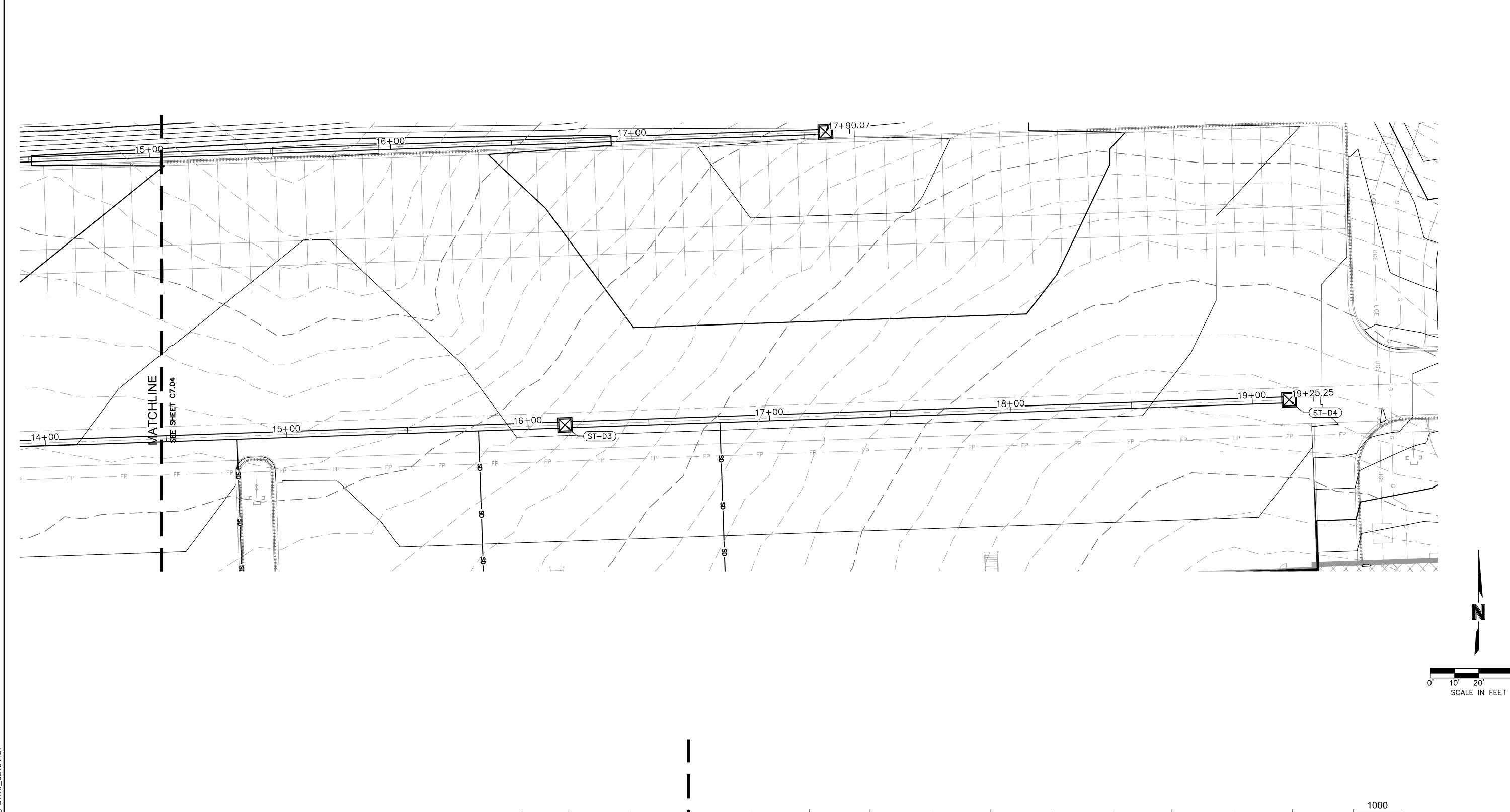
SHEET

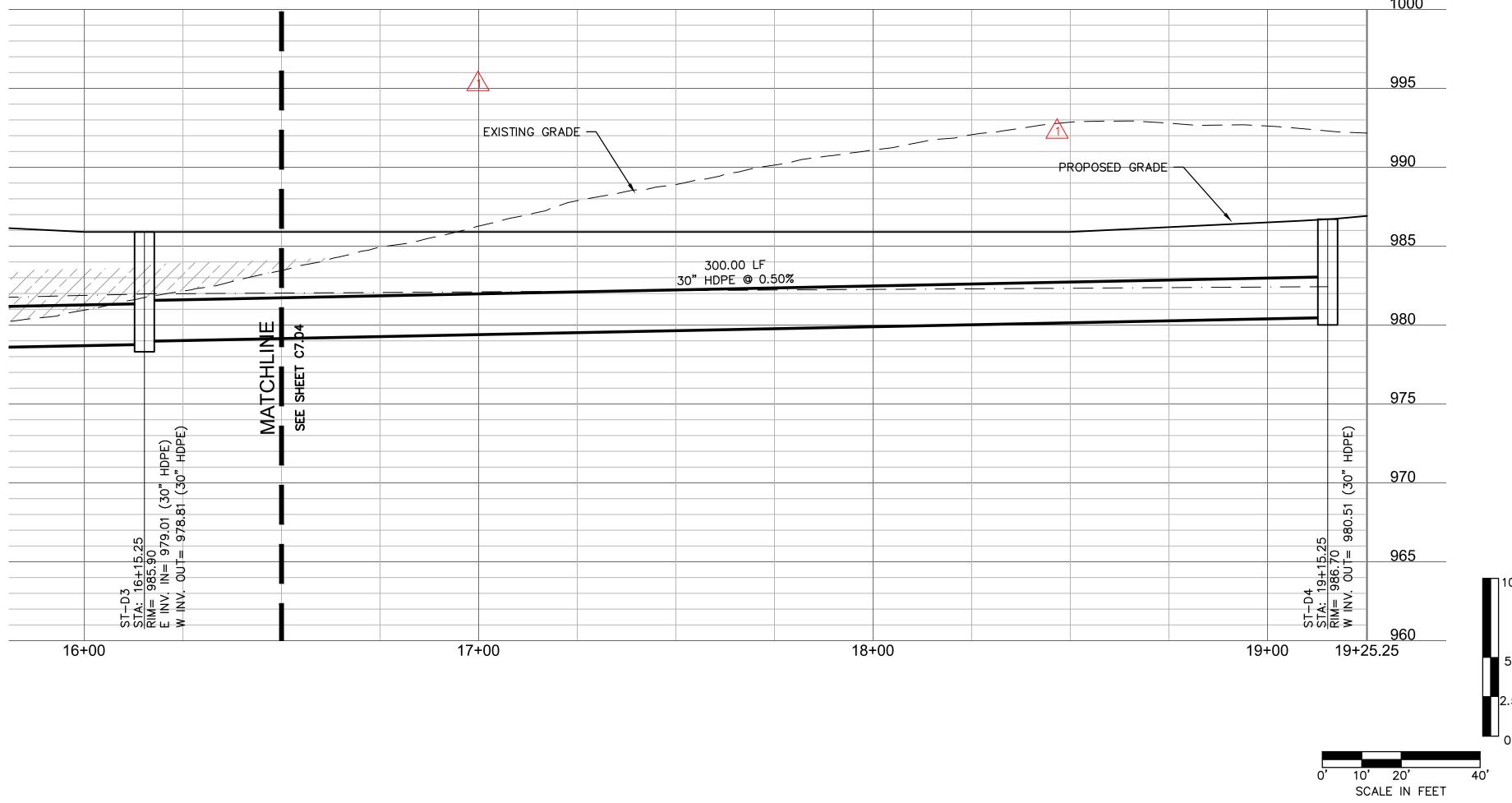
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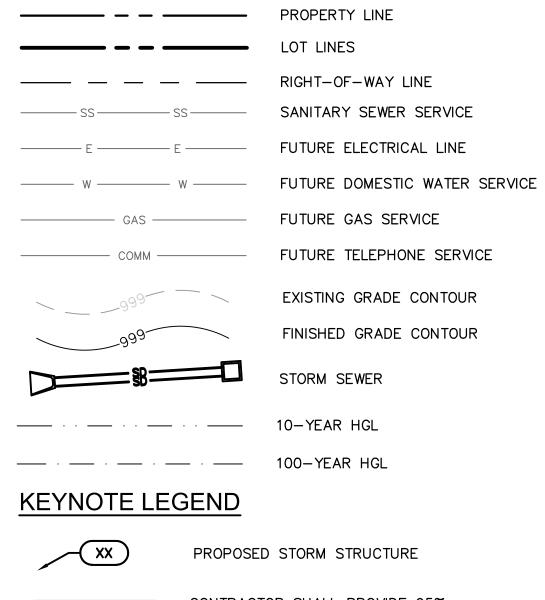
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17	296.19 LF 36" HDPE @ 0	509								·/ <u>-+</u> / <u>-</u> /·/-
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		 					ഗ ഗ	RIM= 985.98 E INV. IN= 977.31 (30" HDPE) W INV. OLIT- 977.11 (36" HDDE)		
		12-	+00			13-	+00			 14

		STRUCTURES					
	ID	DESCRIPTIO					
	ST-C1	6'X7' NONSETBACK CURB IN 10+61.04, 0.00' STORM LINE C RIM= 986.25 INV IN = 974.96 (30" HDPE INV IN = 974.96 (36" HDPE INV OUT = 974.46 (36" HDI N: 52919.441; E: 54818.600					
	ST-D1	6' I.D. MANHOLE INSERT 36FTB SNOUT WITH 10+19.06, 0.00' STORM LINE D RIM= 986.54 INV IN = 975.63 (36" HDPE INV OUT = 975.13 (36" HDP N: 52886.322; E: 54818.42					
	ST-D2	6'X6' JUNCTION BOX 13+15.25, 0.00' STORM LINE D RIM= 985.98 INV IN = 977.31 (30" HDPE INV OUT = 977.11 (36" HDP N: 52896.564; E: 55114.430					





LEGEND



CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

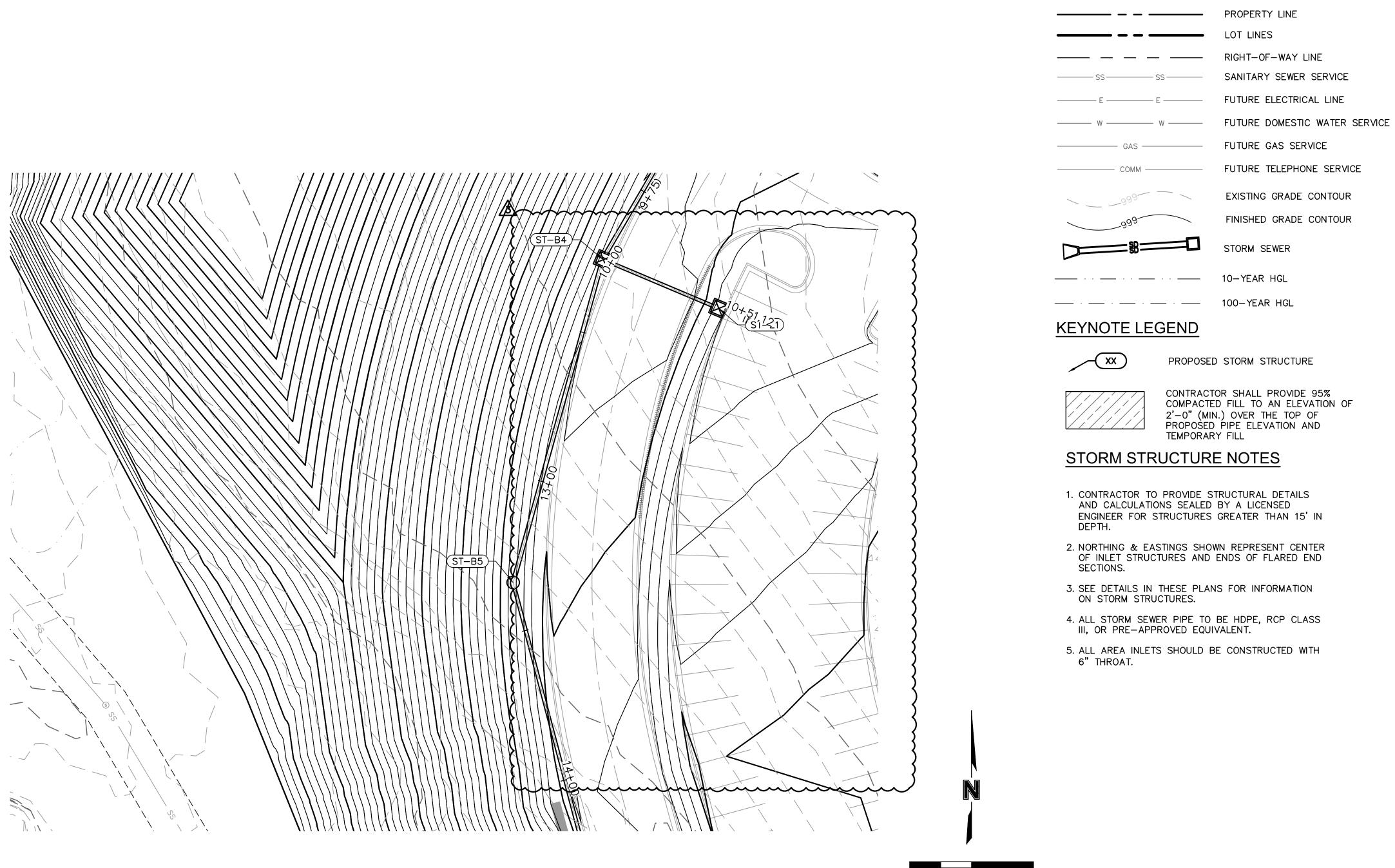
STORM STRUCTURE NOTES

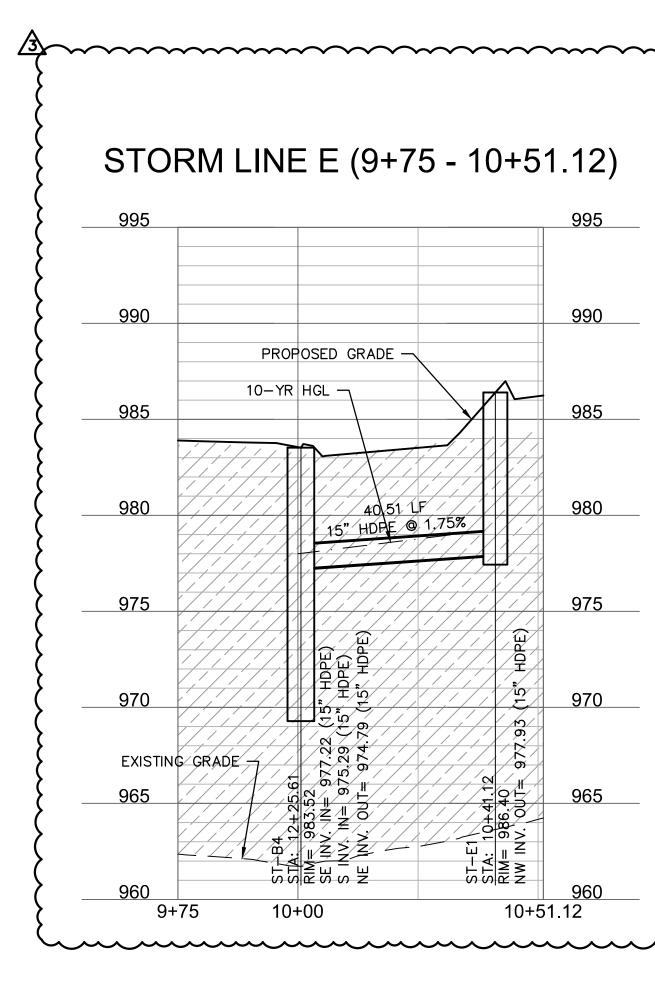
- 1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- 2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- 3. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- 4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

STRUCTURES						
ID	DESCRIPTION					
ST-D3	6'X6' JUNCTION BOX 16+15.25, 0.00' STORM LINE D RIM= 985.90 INV IN = 979.01 (30" H INV OUT = 978.81 (30" N: 52906.938; E: 55414					
ST-D4	6'X6' JUNCTION BOX 19+15.25, 0.00' STORM LINE D RIM= 986.70 INV OUT = 980.51 (30" N: 52917.313; E: 55714					

S EXISTING GRADE CONTOUR FINISHED GRADE CONTOUR ~ v ш Ш – Z Ŭ S -F MIS MITCHELL ALAN PLEAK NUMBER PE-2009018764 02-8-22 REV. DATE KEV. NO. 1 12.04.2021 CITY CON 2 01.07.2022 CITY CON 02.03.2022 CITY & EV HDPE))"HDPE) 14.257 STORM PLAN & PROFILE D HASE I FINAL DEVELOPMENT PLAN L DEVELOPMENT LEE'S SUMMIT LOGISTICS CORNER OF TUDOR ROAD AND MAIN STREET OURI "HDPE) 4.078 ELL drawn by: OLSSON checked by: ENG approved by: ENG QA/QC by: ENG project no.: 021-04157 drawing @p.STM02_02104157.dwg date: SHEET

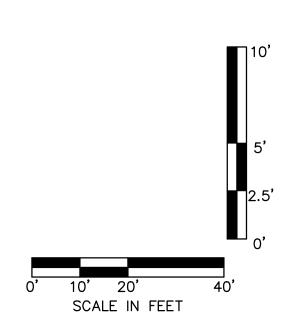
F: \2021\04001-04500\021-04157\40-design\AutoCAD\final_plans\Sheets\GNCV\PHASE_I\C_STM02_02104157.dwg USER: Imoore Feb_08, 2022 11:21am XREFS: C_PBASE_02104157 C_PSURF_02104157 C_TBLK_02104157 C_XBASE_02104157 C_PSTRM_02104157





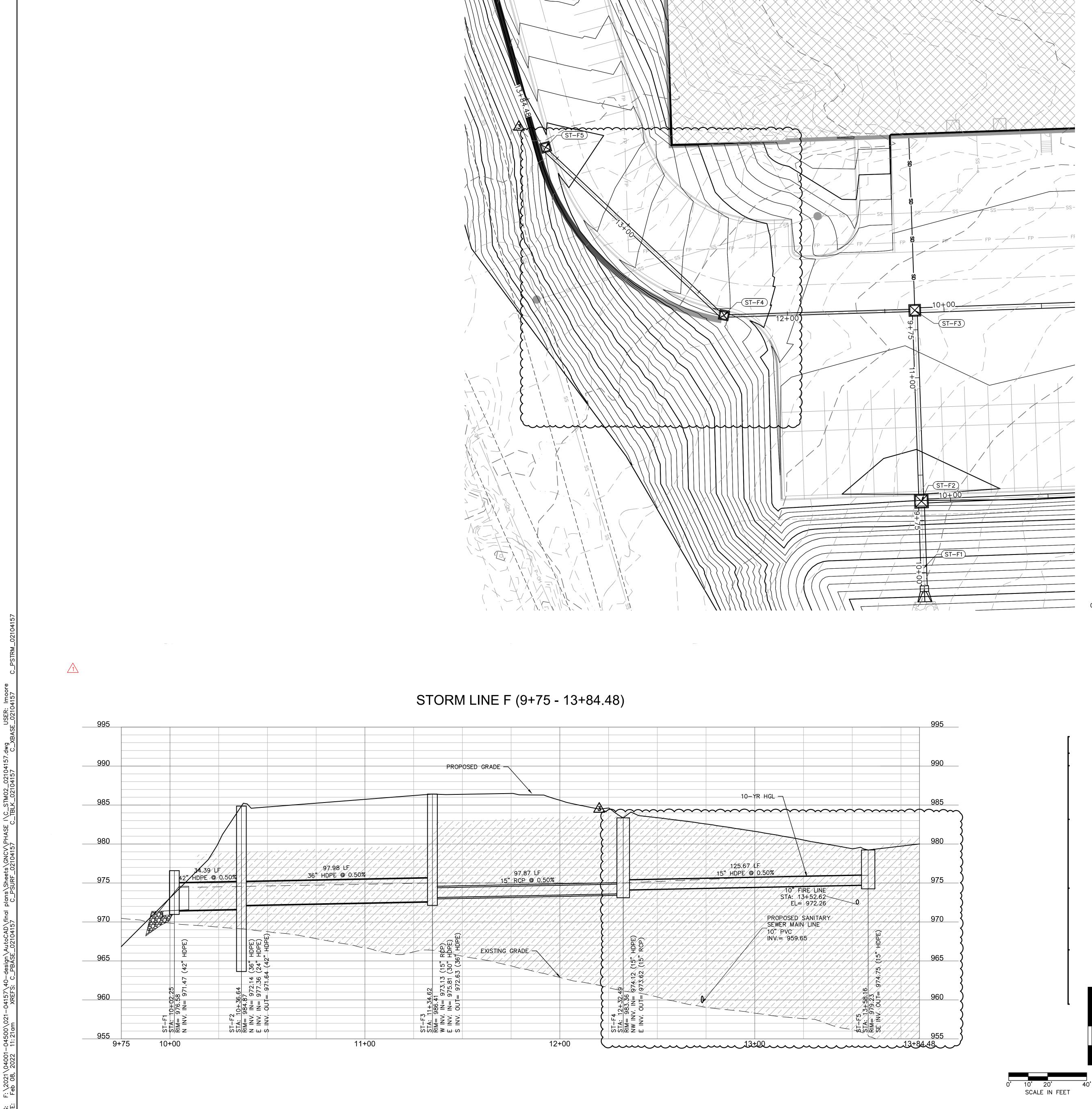
0' 10' 20' 4 SCALE IN FEET LEGEND

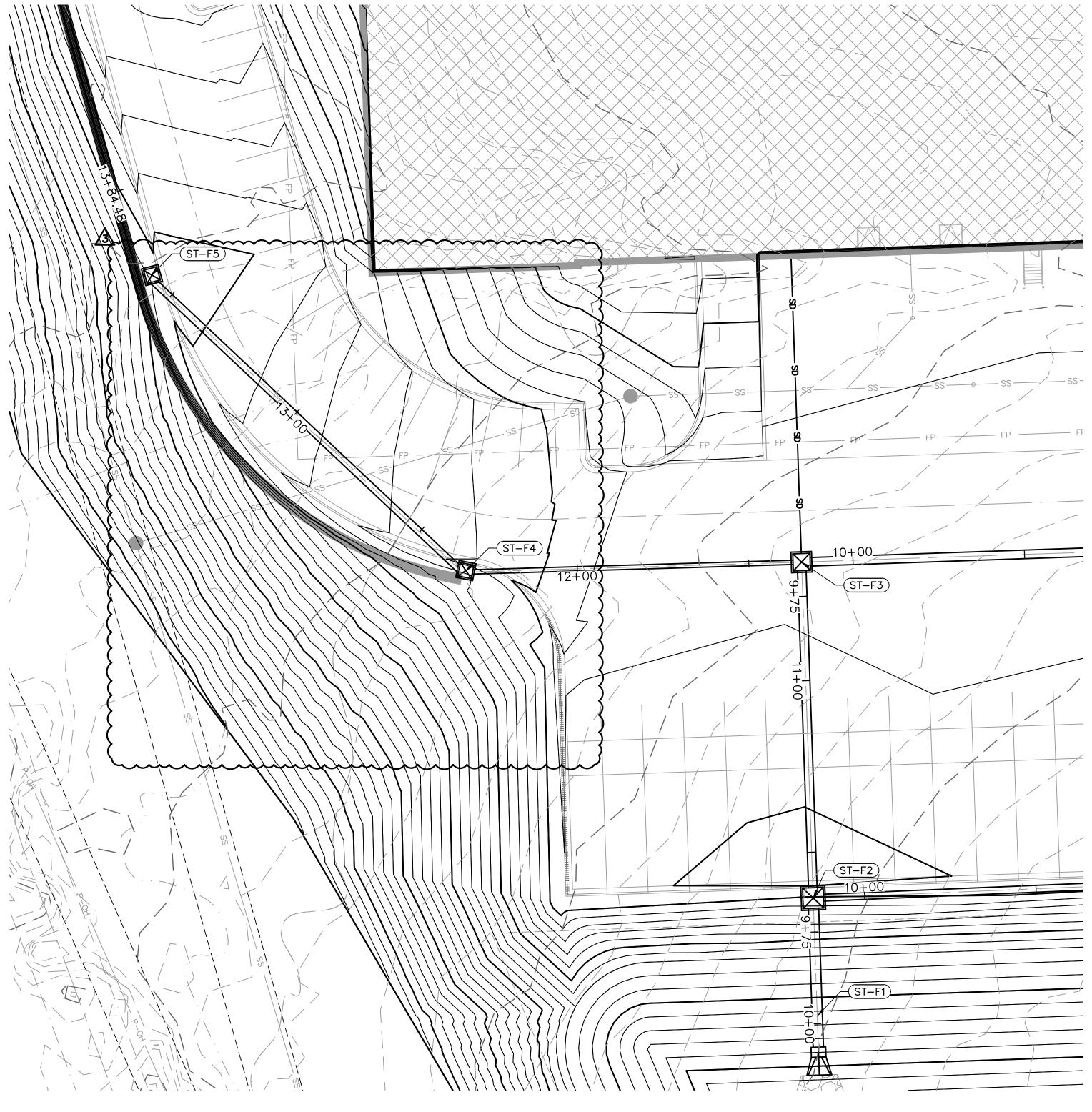
	STRUCTURES						
ID	DESCRIPTION						
ST–E1	4'X4' CURB/GRATE INLET 10+41.12, 0.00' STORM LINE E RIM= 986.40 INV OUT = 977.93 (15" HDPE) N: 52876.308; E: 54758.524						

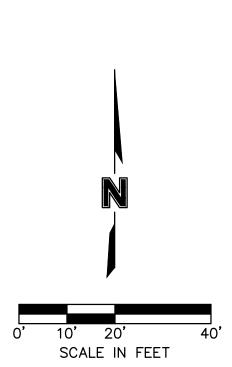


S EXISTING GRADE CONTOUR FINISHED GRADE CONTOUR S ш Ш – -7 ∠ " Ŭ S ~ MITCHELL ALAN PLEAK NUMBER PE-2009018764 02-8-22 DATE REVISIONS 12.04.2021 CITY COMMET 01.07.2022 CITY & EVERCE , and Rec. STORM PLAN & PROFILE E HASE I FINAL DEVELOPMENT PLAN L DEVELOPMENT LEE'S SUMMIT LOGISTICS CORNER OF TUDOR ROAD AND MAIN STREET OURI ELL I ST C SCANNE RTHWE drawn by: OLSSON ENG ENG checked by: approved by: QA/QC by: ENG project no.: 021-04157 drawing @_\$TM02_02104157.dwg date:

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■ 10'

	STRUCTURES	STRUCTURES		
ID	DESCRIPTION	ID	DESCRIPTION	
ST–F1	36" CONCRETE FLARED END SECTION WITH TOE WALL 10+02.25, 0.00' LT STORM LINE F INV IN = 971.47 (42" HDPE) N: 52129.936; E: 55005.032	ST-F5	6'X6' NONSETBACK CURB INLE 13+58.16, 0.00' STORM LINE F RIM= 979.23 INV OUT = 974.75 (15" HDPE) N: 52345.882; E: 54811.102	
ST-F2	7'X6' NONSETBACK CURB INLET INSERT 48FTB SNOUT WITH 90" SUMP DEPTH 10+36.64, 0.00' STORM LINE F RIM= 984.87 INV IN = 972.14 (36" HDPE) INV IN = 977.36 (24" HDPE) INV OUT = 971.64 (42" HDPE) N: 52164.302; E: 55003.842			
ST-F3	6'X6' JUNCTION BOX 11+34.62, 0.00' STORM LINE F RIM= 986.41 INV IN = 973.13 (15" RCP) INV IN = 975.81 (30" HDPE) INV OUT = 972.63 (36" HDPE) N: 52262.226; E: 55000.453			
ST-F4	6'X6' NONSETBACK CURB INLET 12+32.49, 0.00' STORM LINE F RIM= 983.36 INV IN = 974.12 (15" HDPE) INV OUT = 973.62 (15" RCP) N: 52259.754; E: 54902.614			

LEGEND

		PROPERTY LINE
		LOT LINES
		RIGHT-OF-WAY L
SS	SS	SANITARY SEWER
———— E ———	——— E ————	FUTURE ELECTRIC
W	W	FUTURE DOMESTIC
G <i>A</i>	\S	FUTURE GAS SER
CO	MM	FUTURE TELEPHO
<u> </u>	9	EXISTING GRADE
90		FINISHED GRADE
	8====	STORM SEWER
		10-YEAR HGL
· ·	_ · ·	100-YEAR HGL
<u>KEYNOTE</u>	LEGEND	

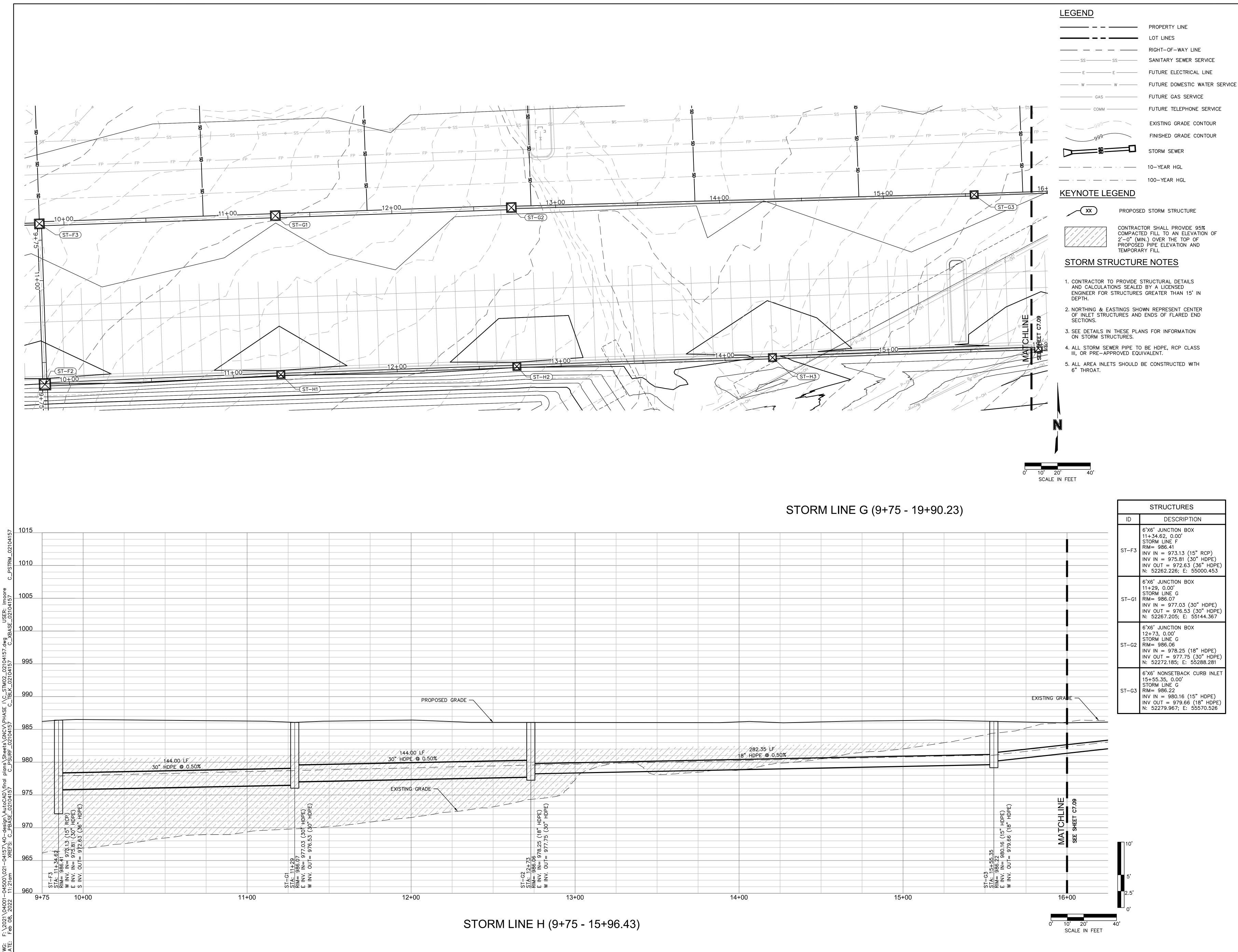
PROPOSED STORM STRUCTURE

2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND TEMPORARY FILL

STORM STRUCTURE NOTES

- 1. ALL ROOF DRAIN CONNECTIONS TO BE INCLUDED IN FUTURE PLAN SET.
- 2. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- 3. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- 4. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- 5. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- 6. ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

OF-WAY LINE RY SEWER SERVICE E ELECTRICAL LINE E DOMESTIC WATER SERVICE \boldsymbol{C} GAS SERVICE U TELEPHONE SERVICE GRADE CONTOUR GRADE CONTOUR ~ v ____ Ш – CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF -7 ∠ " Ŭ [°] S -FMIS MITCHELL ALAN PLEAK NUMBER PE-2009018764 REV. DA. NO. 12.04.2021 2 01.07.2022 CURB INLET (15" HDPE) 54811.102 OPMENT LEE'S SUMMIT LOGISTICS R OF TUDOR ROAD AND MAIN STREE AN STORM PLAN & PROFILE F SE I FINAL DEVELOPMENT PL SCANNELL DEVEL NORTHWEST CORNE SUMMIT, MISSOURI PHA S drawn by: OLSSON checked by: ENG approved by: ENG QA/QC by: ENG project no.: 021-04157 drawing @p_STM02_02104157.dwg date: SHEET

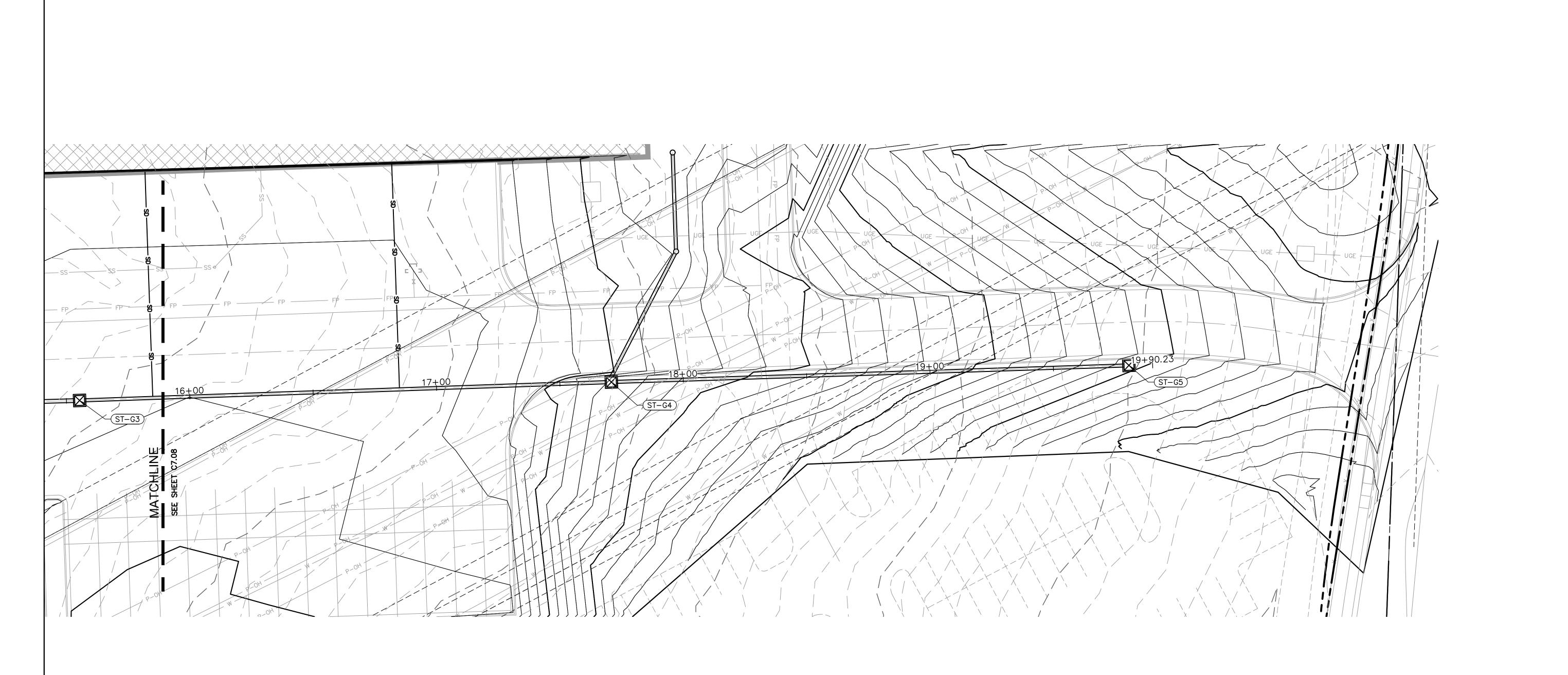


PROPOSED	GRADE -					
//144.00 LF//// 30" HDPE/@ 0.50%//						282.35 18" HDPE @
ÉXIŞTING GRADE						
			HDPE)			
			RIM= 986.06 E INV. IN= 978.25 (18" HDPE) W INV. OUT= 977.75 (30" HDPE)			
			78. 97			
		2 12+73	986.06 . IN= 9 . 0UT= 9			

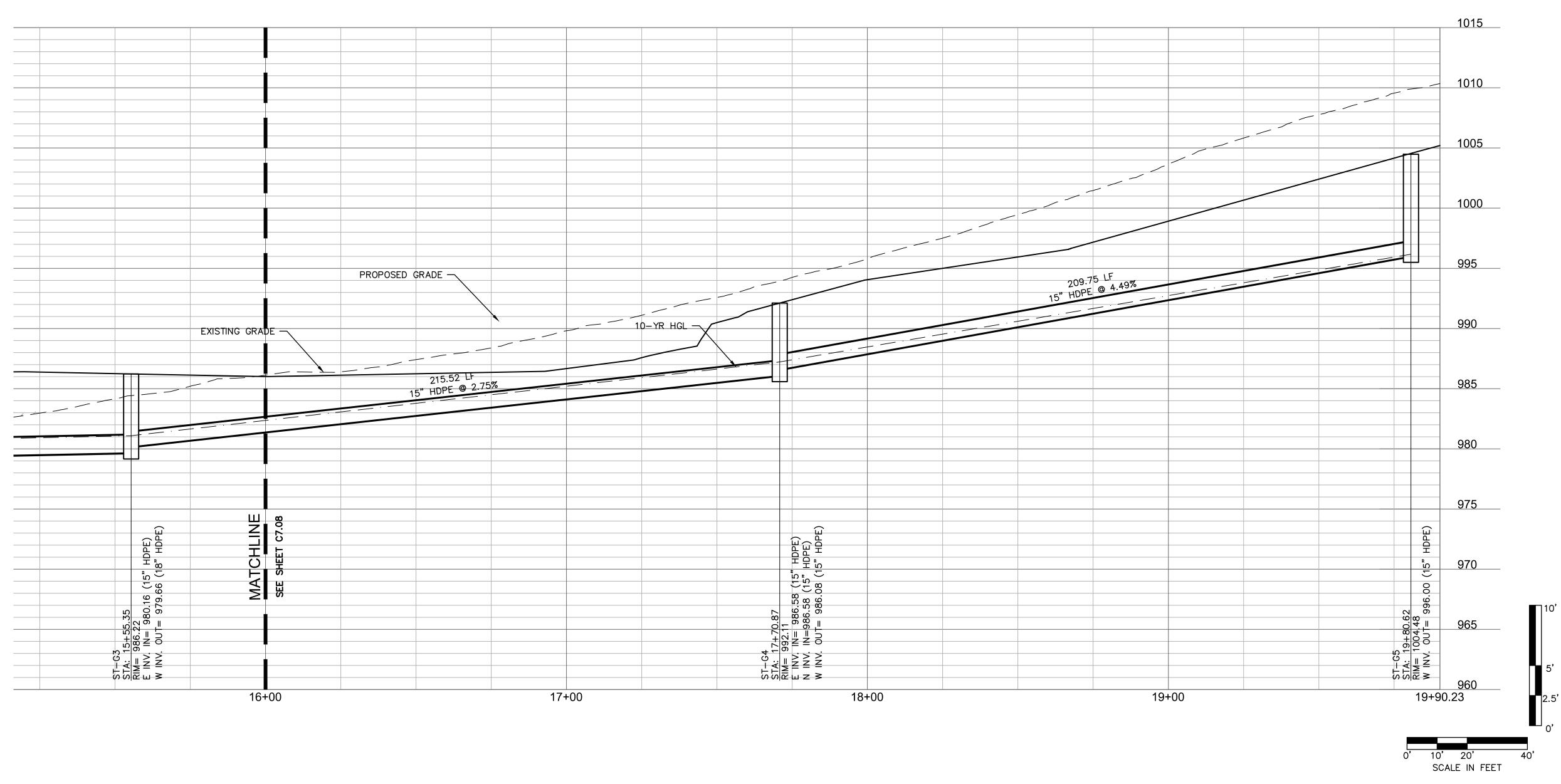
SANITARY SEWER SERVICE FUTURE TELEPHONE SERVICE EXISTING GRADE CONTOUR FINISHED GRADE CONTOUR S ш ш-Z Ű S -MITCHELL ALAN NUMBER PE-2009018764 02-8-22 ONALES DESCRIPTION REVISI CITY CO CITY CO CITY & E עריר 12.04.2021 01.07.2022 02.03.2022 $\begin{array}{l} \text{INV IN} = 977.03 \ (30" \ \text{HDPE}) \\ \text{INV OUT} = 976.53 \ (30" \ \text{HDPE}) \\ \text{N:} \ 52267.205; \ \text{E:} \ 55144.367 \end{array}$ NO - NO. DEVELOPMENT LEE'S SUMMIT LOGISTICS ORNER OF TUDOR ROAD AND MAIN STRE JRI 6'X6' NONSETBACK CURB INLET STORM PLAN & PROFILE G PHASE I FINAL DEVELOPMENT PLAN INV IN = 980.16 (15" HDPE)INV OUT = 979.66 (18" HDPE) N: 52279.967; E: 55570.526 SCANNELL D NORTHWEST CC SUMMIT, MISSOU drawn by: OLSSON checked by: ENG approved by: ENG QA/QC by: ENG project no.: 021-04157 drawing @p.\$TM02_02104157.dwg date:

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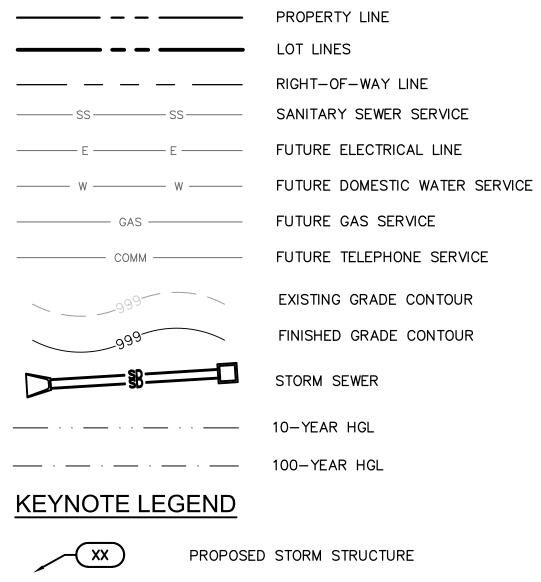








LEGEND



TEMPORARY FILL STORM STRUCTURE NOTES

- 1. CONTRACTOR TO PROVIDE STRUCTURAL DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER FOR STRUCTURES GREATER THAN 15' IN DEPTH.
- 2. NORTHING & EASTINGS SHOWN REPRESENT CENTER OF INLET STRUCTURES AND ENDS OF FLARED END SECTIONS.
- 3. SEE DETAILS IN THESE PLANS FOR INFORMATION ON STORM STRUCTURES.
- 4. ALL STORM SEWER PIPE TO BE HDPE, RCP CLASS III, OR PRE-APPROVED EQUIVALENT.
- ALL AREA INLETS SHOULD BE CONSTRUCTED WITH 6" THROAT.

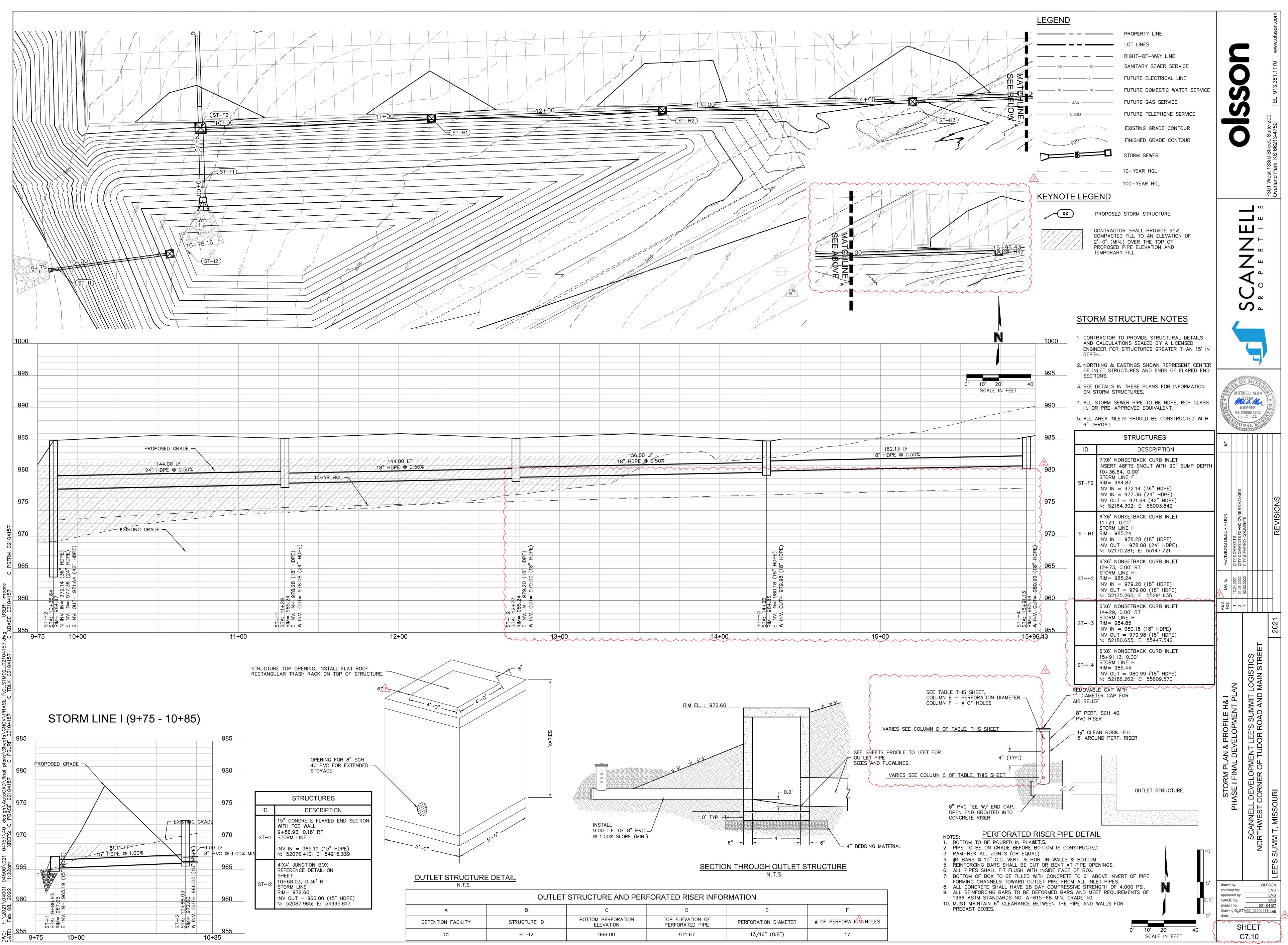
10' 20' SCALE IN FEET

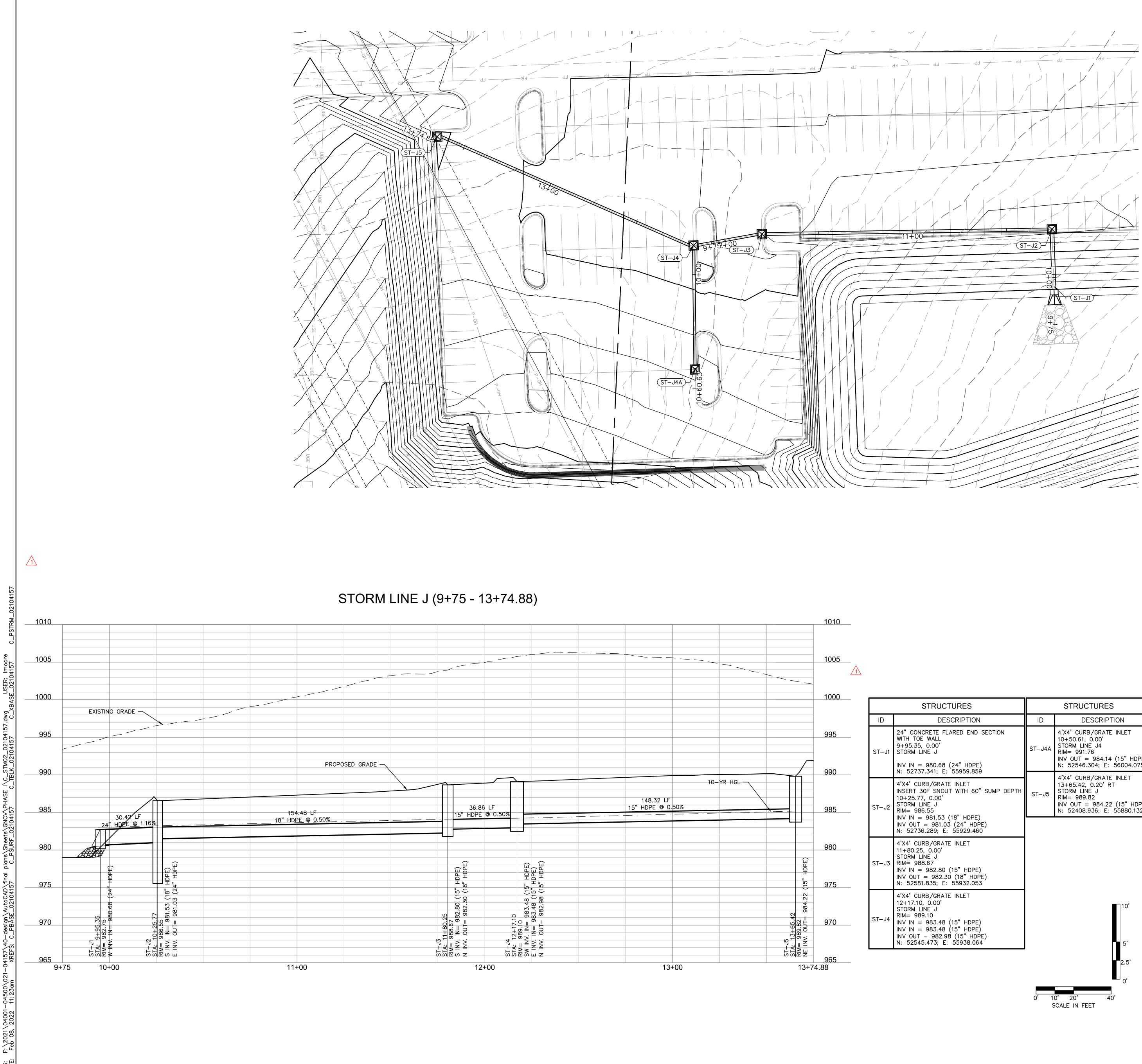
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	STRUCTURES					
ID	DESCRIPTION					
ST-G3	6'X6' NONSETBACK CURB INLET 15+55.35, 0.00' STORM LINE G RIM= 986.22 INV IN = 980.16 (15" HDPE) INV OUT = 979.66 (18" HDPE) N: 52279.967; E: 55570.526					
ST-G4	5'X5' NONSETBACK CURB INLET 17+70.87, 0.00' STORM LINE G RIM= 992.11 INV IN = 986.58 (15" HDPE) INV OUT = 986.08 (15" HDPE) N: 52287.420; E: 55785.916					
ST-G5	4'X4' NONSETBACK CURB INLET 19+80.62, -0.35' LT STORM LINE G RIM= 1004.48 INV OUT = 996.00 (15" HDPE) N: 52294.174; E: 55995.554					

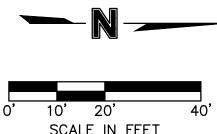
S S S ш Ш – CONTRACTOR SHALL PROVIDE 95% COMPACTED FILL TO AN ELEVATION OF 2'-0" (MIN.) OVER THE TOP OF PROPOSED PIPE ELEVATION AND -7 ∠ " ŬĽ S[¬] FMIS MITCHELL ALAN NUMBER PE-2009018764 02-8-22 CITY COMIV CITY COMIV CITY & EVE 12.04.2021 01.07.2022 02.03.2022 STORM PLAN & PROFILE G PHASE I FINAL DEVELOPMENT PLAN SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS NORTHWEST CORNER OF TUDOR ROAD AND MAIN STRE SUMMIT, MISSOURI

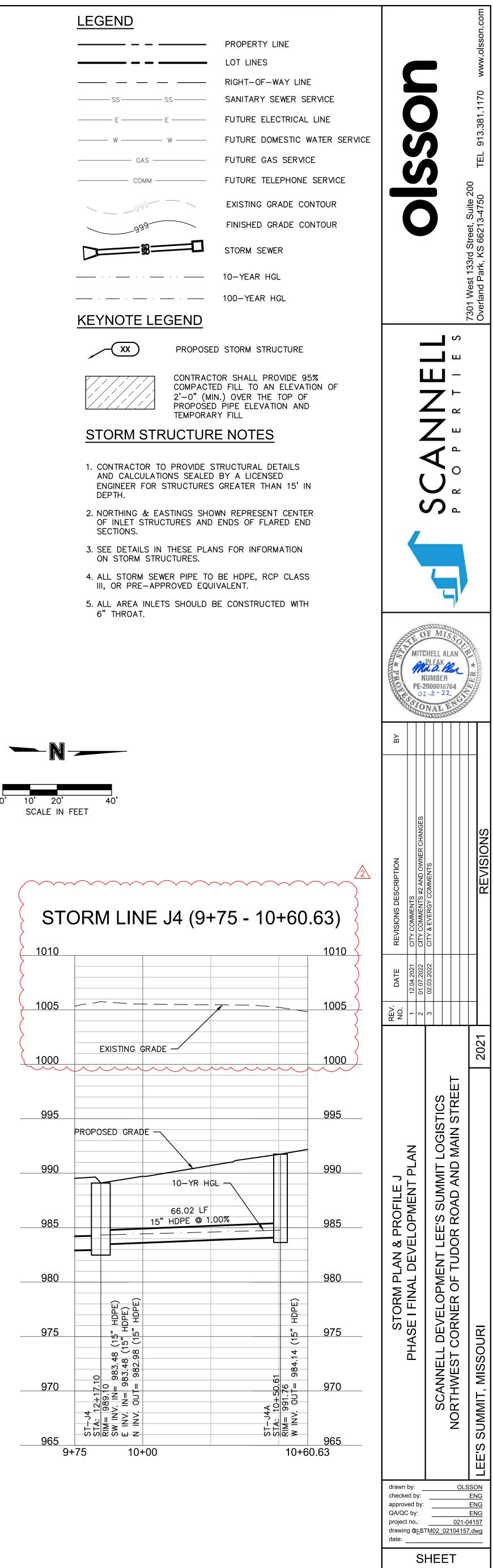
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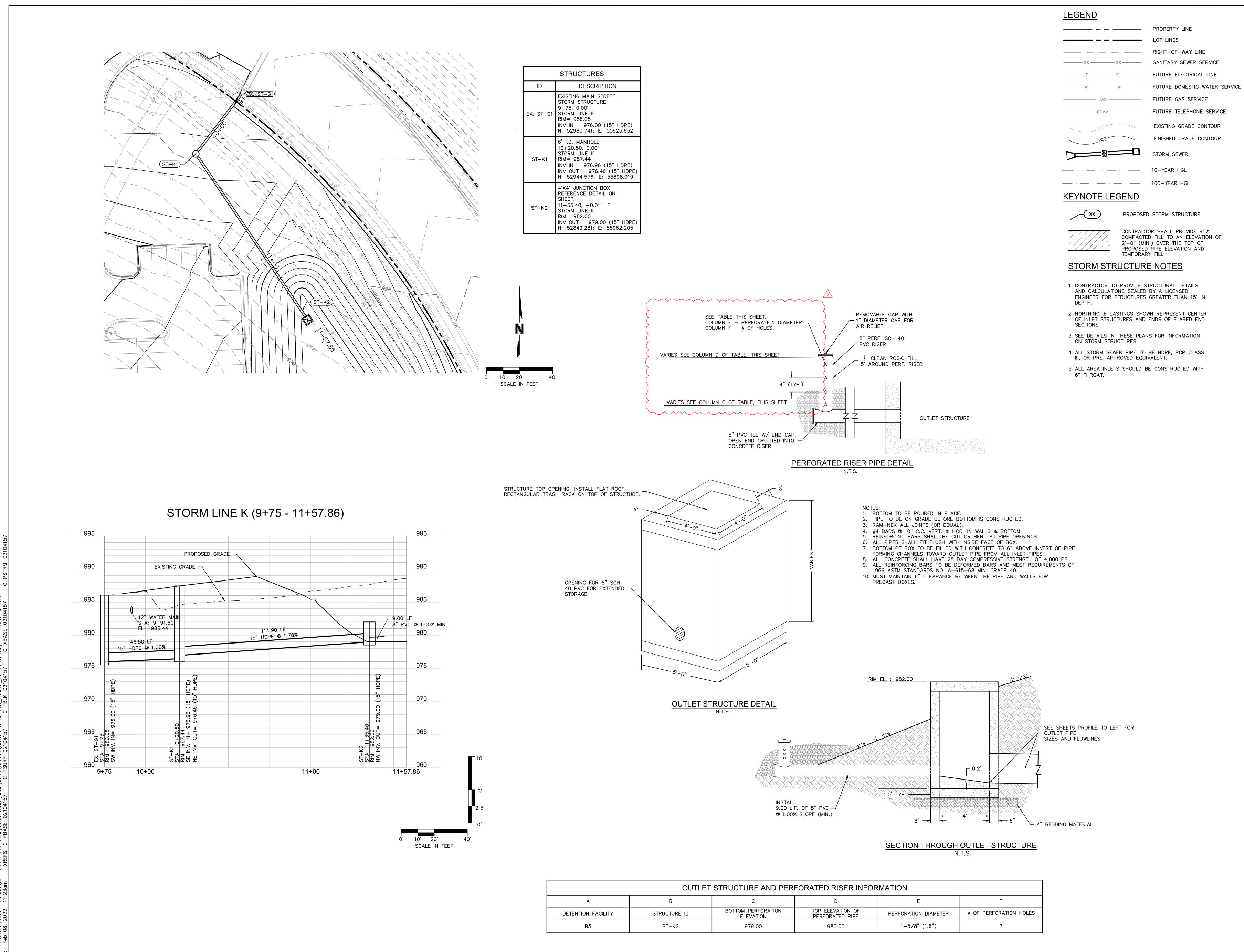


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w w	FUTURE DO
GAS	FUTURE GA
СОММ	FUTURE TEL
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· · · · · · · · ·	10-YEAR H
· · · ·	100-YEAR H
KEYNOTE LEGEND	
XX PROPOSED	STORM STR
COMPACTED 2'-0" (MIN	DR SHALL PR) FILL TO AN .) OVER THE PIPE ELEVAT ? FILL
STORM STRUCTURE	NOTES
1. CONTRACTOR TO PROVIDE ST AND CALCULATIONS SEALED I ENGINEER FOR STRUCTURES (DEPTH.	BY A LICENS
 NORTHING & EASTINGS SHOW OF INLET STRUCTURES AND E SECTIONS. 	
3. SEE DETAILS IN THESE PLANS ON STORM STRUCTURES.	S FOR INFOR
4. ALL STORM SEWER PIPE TO E III, OR PRE-APPROVED EQUIV	
5. ALL AREA INLETS SHOULD BE 6" THROAT.	CONSTRUC

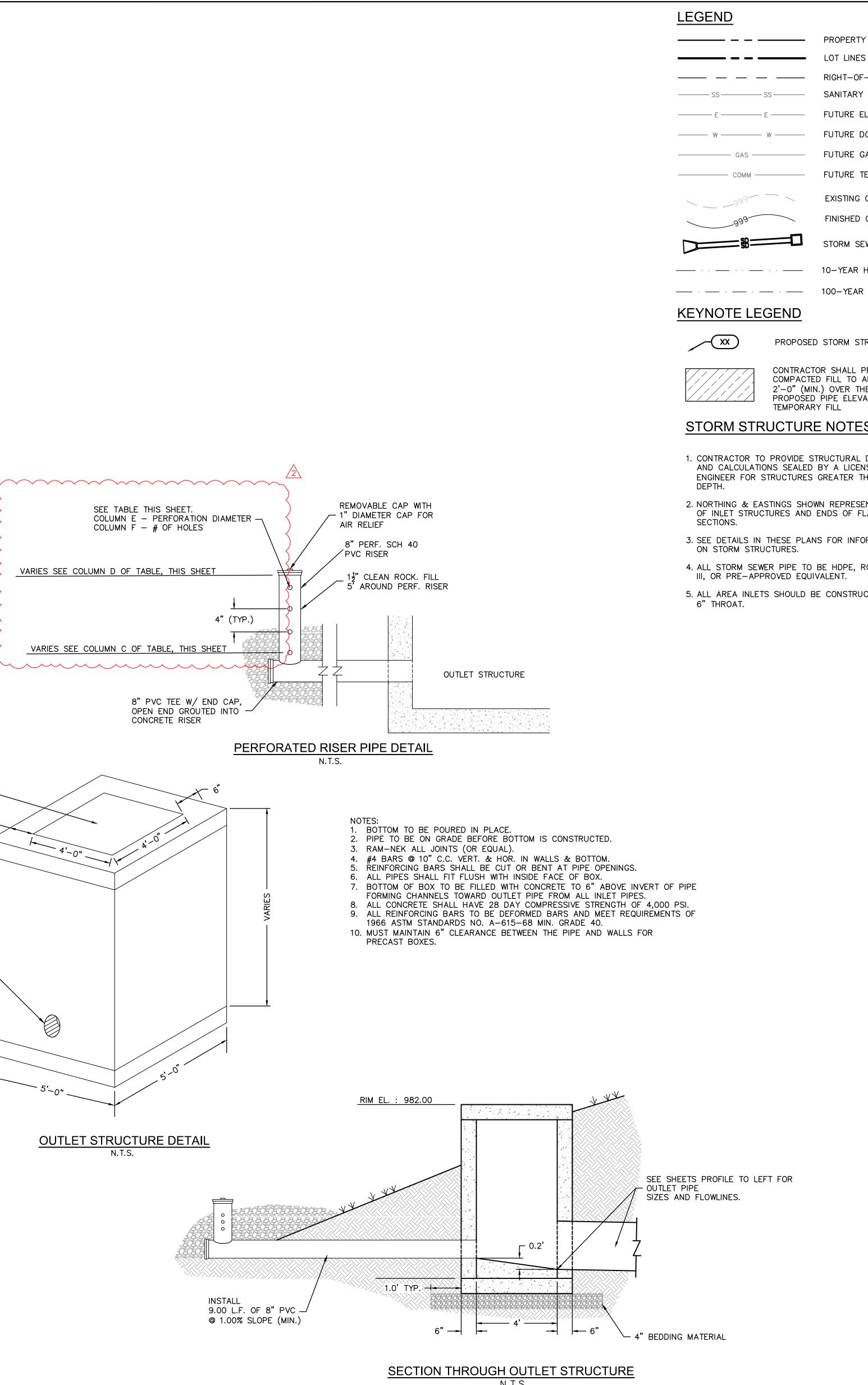


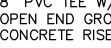


	STRUCTURES	STRUCTURES		
ID	DESCRIPTION	ID	DESCRIPTION	
T—J1	24" CONCRETE FLARED END SECTION WITH TOE WALL 9+95.35, 0.00' STORM LINE J INV IN = 980.68 (24" HDPE) N: 52737.341; E: 55959.859	ST-J4A	4'X4' CURB/GRATE INLET 10+50.61, 0.00' STORM LINE J4 RIM= 991.76 INV OUT = 984.14 (15" HDPE) N: 52546.304; E: 56004.075	
T—J2	4'X4' CURB/GRATE INLET INSERT 30F SNOUT WITH 60" SUMP DEPTH 10+25.77, 0.00' STORM LINE J RIM= 986.55 INV IN = 981.53 (18" HDPE) INV OUT = 981.03 (24" HDPE) N: 52736.289; E: 55929.460	ST-J5	4'X4' CURB/GRATE INLET 13+65.42, 0.20' RT STORM LINE J RIM= 989.82 INV OUT = 984.22 (15" HDPE) N: 52408.936; E: 55880.132	
T—J3	4'X4' CURB/GRATE INLET 11+80.25, 0.00' STORM LINE J RIM= 988.67 INV IN = 982.80 (15" HDPE) INV OUT = 982.30 (18" HDPE) N: 52581.835; E: 55932.053			
T—J4	4'X4' CURB/GRATE INLET 12+17.10, 0.00' STORM LINE J RIM= 989.10 INV IN = 983.48 (15" HDPE) INV IN = 983.48 (15" HDPE) INV OUT = 982.98 (15" HDPE) N: 52545.473; E: 55938.064		10' 5'	
			2.5'	



	STRUCTURES
ID	DESCRIPTION
EX. ST–G1	EXISTING MAIN STREET STORM STRUCTURE 9+75, 0.00' STORM LINE K RIM= 986.05 INV IN = 976.00 (15" HDPE) N: 52980.741; E: 55925.632
ST–K1	6' I.D. MANHOLE 10+20.50, 0.00' STORM LINE K RIM= 987.44 INV IN = 976.96 (15" HDPE) INV OUT = 976.46 (15" HDPE) N: 52944.576; E: 55898.019
ST-K2	4'X4' JUNCTION BOX REFERENCE DETAIL ON SHEET. 11+35.40, -0.01' LT STORM LINE K RIM= 982.00 INV OUT = 979.00 (15" HDPE) N: 52849.281; E: 55962.205





	STRUCTURE ANI	
A	В	С
DETENTION FACILITY	STRUCTURE ID	BOTTOM PERFORAT ELEVATION
B5	ST-K2	979.00

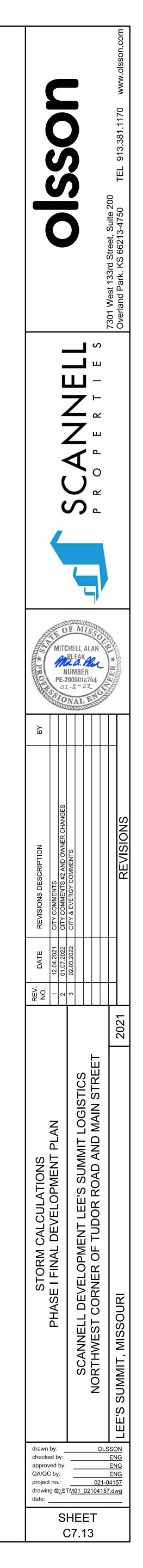
FINISHED GRADE CONTOUR s S _____ш ш-∠__ ~ ш U ₂ S[¬] MITCHELL ALAN NUMBER PE-2009018764 02-8-22 DNALE CITY & EVERC DAIE 12.04.2021 01.07.2022 02.03.2022 NO L OPMENT LEE'S SUMMIT LOGISTICS R OF TUDOR ROAD AND MAIN STRE AN STORM PLAN & PROFILE K SE I FINAL DEVELOPMENT PL DEVE ORNE ST C drawn by: OLSSON checked by: ENG approved by: ENG QA/QC by: ENG project no.: 021-04157 drawing 00.STM02_02104157.dwg date: _____

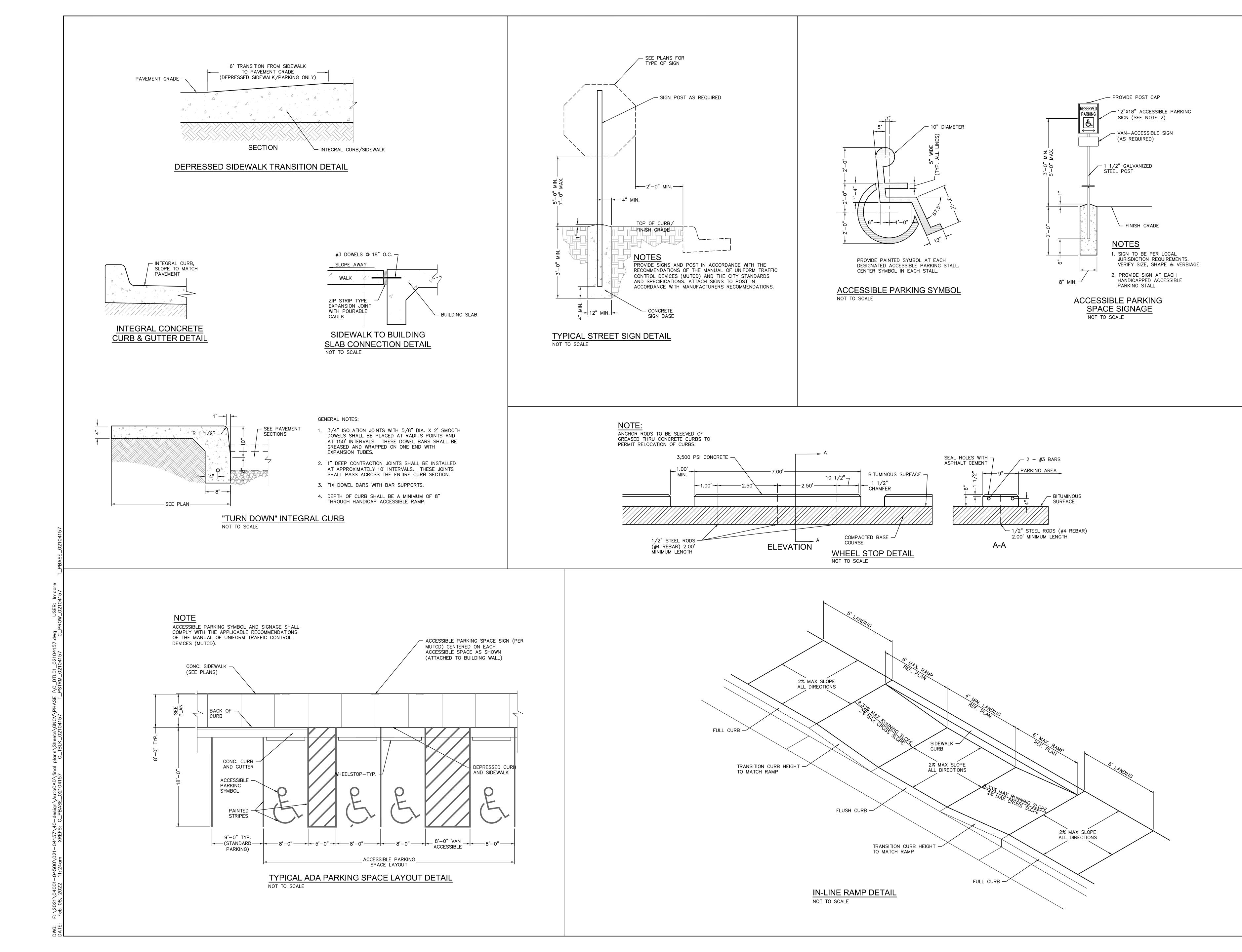
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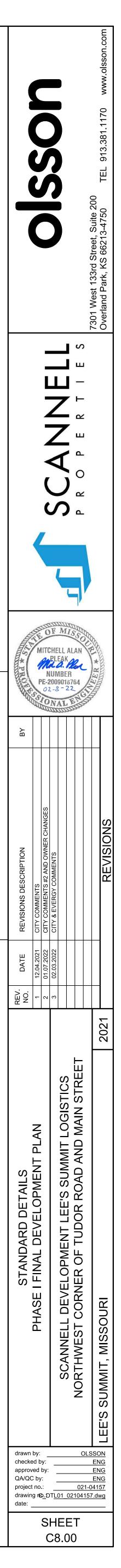
				<u>1</u>	0 YEA	AR STORM	CALCUL	ATIONS										
Note Note <th< th=""><th></th><th></th><th></th><th>S</th><th>STORM S</th><th>SEWER PIPE AN</th><th>D STRUCTU</th><th>RE TABLE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>				S	STORM S	SEWER PIPE AN	D STRUCTU	RE TABLE										
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		PIPE .									E	ENTRY LOSS	ACTUAL		. [HW.	HYDRAULIC	HYDRAULIC
	FROM TO AREA AREA C KC IC TIME INTENSITY DESIGN Q								DOWNSTREAM		ICTION _		ENTRY			CONTROL	GRADE	GRADE Comments
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Image Image <td></td> <td>108.57 1.75</td> <td>15 8.57</td> <td>1.23</td> <td>6.98</td> <td>6.95 1.0</td> <td></td> <td>977.19</td> <td>975.29</td> <td>976.33</td> <td>0.47</td> <td>0.40</td> <td>0.40</td> <td>0.30 0</td> <td>.78</td> <td>978.50 977.19</td> <td>978.50</td> <td>980.46</td>		108.57 1.75	15 8.57	1.23	6.98	6.95 1.0		977.19	975.29	976.33	0.47	0.40	0.40	0.30 0	.78	978.50 977.19	978.50	980.46
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	0.00 9.31						982.7											
Di Di<	D4 2.43 0.90 0.90 5.0 7.35 16.08 D3 2.43 0.90 0.90 5.0 0.82 7.35 16.08	300.00 0.50	30 29.08	4 91	5 92	6.06 0.8			979.01	981.02	0 46	0.40	1 00	0.57 1	04	982 61 982 05	982.61	985.20
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ <t< td=""><td>D3 2.02 0.90 0.90 5.0 7.35 13.37</td><td></td><td></td><td></td><td></td><td></td><td>985.90</td><td></td><td></td><td></td><td></td><td>0.10</td><td></td><td></td><td></td><td></td><td>981.96</td><td>984.40</td></t<>	D3 2.02 0.90 0.90 5.0 7.35 13.37						985.90					0.10					981.96	984.40
N N N <th< td=""><td></td><td>300.00 0.50</td><td>30 29.08</td><td>4.91</td><td>5.92</td><td>6.74 1.2</td><td></td><td></td><td>977.31</td><td>980.23</td><td>1.46</td><td>0.40</td><td>0.40</td><td>0.28 1</td><td>.74</td><td>981.82 981.96</td><td>080.20</td><td>094.49</td></th<>		300.00 0.50	30 29.08	4.91	5.92	6.74 1.2			977.31	980.23	1.46	0.40	0.40	0.28 1	.74	981.82 981.96	080.20	094.49
3 1 1 1	D1 6.17 0.90 0.90 6.6 0.66 6.90 38.31	296.19 0.50	36 47.29	7.07	6.69	7.43 1.0	6		975.63	978.69	0.98	0.40	0.40	0.34 1	.33	980.29 980.02	900.29	
I I I I I <		22.04 0.50	20 47.00	7.07	0.00	7.45 4.0		075.40	074.00	077.07	0.44	0.40	0.40	0.24	40	070.04	978.34	985.60
		33.04 0.50	36 47.29	7.07	6.69	7.45 1.0			974.96	977.67	0.11	0.40	0.40	0.34 0	.40	978.34 978.13	984.14	986.94
	D1 0.25 0.90 0.90 7.3 0.40 6.70 1.51	125.00 1.75	15 8.57	1.23	6.98	5.25 0.7	2	983.24	981.05	982.04	0.07	0.40	1.00	0.43 0	.50	984.14 983.24		
P P P P P P P P		34.92 1.00	15 6.48	1 23	5.28	2.53 0.6			983.65	983.91	0.00	0.40	1.00	0.10 0	10	984 84 984 01	984.84	988.06
P1 P1 P1 P1 P1	F6 0.23 0.90 0.90 5.0 7.35 1.52						989.33				0.00	0.10	1.00	0.10 0	. 10		984.05	987.83
PI ····································	F5 0.27 0.90 0.90 7.9 0.40 6.55 1.59	104.17 1.00	15 6.48	1.23	5.28	4.37 0.7			982.11	982.78	0.06	0.40	1.00	0.30 0	.36	984.05 983.15	092 51	0.97.20
N N N N N	F4 0.27 0.90 0.90 8.3 0.22 6.45 1.57	57.81 1.00	15 6.48	1.23	5.28	4.34 0.7			981.03	981.70	0.03	0.40	0.40	0.12 0	.15	982.51 981.85	902.01	907.39
P1 P3 <td>F4 0.23 0.90 0.90 5.0 7.35 1.52</td> <td></td> <td>15 0.10</td> <td></td> <td></td> <td></td> <td>987.32</td> <td></td> <td></td> <td></td> <td></td> <td>2.12</td> <td></td> <td></td> <td></td> <td></td> <td>981.59</td> <td>985.82</td>	F4 0.23 0.90 0.90 5.0 7.35 1.52		15 0.10				987.32					2.12					981.59	985.82
P2	F3 0.50 0.90 0.90 8.6 0.32 6.40 2.88 F3 1.06 0.90 0.90 5.0 7.35 7.01	97.95 1.00	15 6.48	1.23	5.28	5.12 0.8		980.53	979.55	980.47	0.20	0.40	1.00	0.41 0	.60	981.59 981.08	978.74	984 91
Image: Finite F	F2 5.72 0.90 0.90 8.9 0.18 6.32 32.56	97.87 1.00	30 41.13	4.91	8.38	9.27 1.3	7	975.31	974.33	976.98	0.62	0.40	0.40	0.53 1	.16	978.74 978.14		
C C C C C <		34.50 1.00	36 66.88	7.07	9.46	10.23 1.2		973 83	973 48	975 97	0 17	0.40	0.40	0.65 0	82	977 60 976 79	977.60	983.37
A V	G5 0.24 0.90 0.90 5.0 7.35 1.59					10.20 1.2					0.17	0.10	0.10	0.00 0	.02	017.00 010.10	996.89	1002.98
N N N N N <	G4 0.24 0.90 0.90 9.1 0.49 6.27 1.35	209.36 4.50	15 13.74	1.23	11.20	7.15 0.7		996.00	986.58	987.07	0.09	0.40	1.00	0.79 0	.89	996.89 996.00	097.17	001 70
GR Vert Vert Vert Vert	G3 0.56 0.90 0.90 9.6 0.47 6.16 3.11	215.13 2.75	15 10.74	1.23	8.75	7.56 0.8	7	986.08	980.16	980.98	0.50	0.40	1.00	0.89 1	.39	987.17 986.08	907.11	
GC L0 L0 <thl0< th=""> L0 L0 L0<!--</td--><td>G3 0.46 0.90 0.90 5.0 7.35 3.04</td><td></td><td>40 7.15</td><td></td><td></td><td></td><td>987.20</td><td>070.00</td><td>070.05</td><td></td><td></td><td>0.40</td><td></td><td></td><td>40</td><td>004.00</td><td>981.06</td><td>985.70</td></thl0<>	G3 0.46 0.90 0.90 5.0 7.35 3.04		40 7.15				987.20	070.00	070.05			0.40			40	004.00	981.06	985.70
C1 C31 C30 C30 C30 C30 C30	G2 1.02 0.90 0.90 10.1 1.02 6.06 5.57 G2 2.08 0.90 0.90 5.0 7.35 13.76	282.75 0.50	18 7.45	1./7	4.21	4.61 0.9			978.25	9/9.6/	U.8U	0.40	1.00	0.33 1	.13	980.81	979.87	984.55
F3 K4 0.90 0.90 1.6 0.97 5.78 2.18 0.00 5.78 2.18 0.00 5.78 0.97 5.78 0.97	G1 3.10 0.90 0.90 11.1 0.39 5.86 16.34	144.00 0.50	30 29.08	4.91	5.92	6.08 0.8	5		977.03	979.05	0.23	0.40	1.00	0.57 0	.81	979.87 979.86		
H2 1.33 1.93 1.93 0.9 </td <td>G1 1.06 0.90 0.90 5.0 7.35 7.01 F3 4.16 0.90 0.90 11.5 0.37 5.7° 21.64</td> <td></td> <td>30 20.08</td> <td><u> 1</u> Q1</td> <td>5.92</td> <td>6 48 0 0</td> <td></td> <td>976 53</td> <td>975.81</td> <td>978.05</td> <td>0 40</td> <td>0 40</td> <td>0 40</td> <td>0.26</td> <td>66</td> <td>978.98 978.72</td> <td>978.98</td> <td>984.57</td>	G1 1.06 0.90 0.90 5.0 7.35 7.01 F3 4.16 0.90 0.90 11.5 0.37 5.7° 21.64		30 20.08	<u> 1</u> Q1	5.92	6 48 0 0		976 53	975.81	978.05	0 40	0 40	0 40	0.26	66	978.98 978.72	978.98	984.57
H1 D1 0.6 0.7 0.7.3 0.04 0.04 0.04 0.07 0.7.35 0.04 0.00 0.7.35 0.04 0.00 0.7.35 0.04 0.00 0.07	H2 1.33 0.90 0.90 5.0 7.35 8.80						985.24					0.10	0.10	0		010.12	980.89	983.74
F2 1.94 0.90 0.90 1.24 0.45 5.62 9.81 9.81 1.44.00 0.50 2.4 1.60 3.10 5.10 5.35 0.80 979.13 0.27 0.40 0.40 0.45 979.13 979.58 979.13 0.27 0.40 0.40 0.45 979.13 979.13 0.27 0.40 0.40 0.45 979.13 0.45 979.13 0.45 979.13 0.45 979.13 0.45 979.13 0.45 979.13 0.45 979.14 979.58 1 0.45 979.14 979.58 1 0.45 979.14 979.58 1 0.45 979.14 0.45 979.14 0.45 979.14 979.58 1 0.45 979.14 0.45 979.14		144.00 0.50	18 7.45	1.77	4.21	4.77 1.0			978.28	979.92	0.62	0.40	1.00	0.35 0	.97	980.60 980.89	070.04	092.74
J5 0.4 0.4 0.4 0.90 0.90 5.0 7.35 2.91 147.4 0.6 1.0 1.2 0.7 0.98.2		144.00 0.50	24 16.04	3.14	5.11	5.35 0.8			977.36	979.13	0.27	0.40	0.40	0.18 0	.45	979.81 979.58	979.81	903.74
JA0.230.90.905.00.905.07.351.520.000.00.01.520.155.424.050.0036.860.50154.581.233.734.211.020.5982.98982.00984.120.150.400.110.26984.25984.38987.000.00J30.600.600.905.00.905.00.7.353.970.601.60.60982.98982.00984.120.150.400.110.26984.25984.380.00984.38987.00J30.600.600.905.00.905.00.7.353.970.601.60.60982.98982.00984.120.150.400.100.26984.25984.380.00984.23987.00J30.600.600.600.905.00.7.350.690.601.60.600.600.600.100.26984.25984.380.600.100.26984.25984.300.600.100.26984.25984.300.600.100.26984.25984.300.600.100	J5 0.44 0.90 0.90 5.0 7.35 2.91						989.82										985.18	988.32
J3 0.83 0.90 0.90 1.35 0.15 5.42 4.05 3.68 0.50 1.23 3.73 4.21 1.02 982.80 984.12 0.15 0.40 0.11 0.26 984.25 984.38 1.23 3.73 4.21 1.02 982.80 982.80 984.12 0.15 0.40 0.11 0.26 984.25 984.38 1.23 3.73 4.21 1.02 1.02 0.40 0.41 0.26 984.25 984.38 1.23 3.73 4.21 1.02 0.45 0.40 0.41 0.26 984.25 984.38 1.23 3.73 4.21 1.02 1.02 0.45 0.40 0.11 0.26 984.25 984.38 1.23 3.73 1.77 4.21 1.77 4.21 4.78 1.68 0.40 1.00 0.35 1.04 983.93 983.19 0.68 0.40 1.00 0.35 1.44 983.93 983.19 0.68 0.40 1.00 0.45 984.23 984.23 984.23 984.23 984.23 984.23 984.23 984.		147.41 0.50	15 4.58	1.23	3.73	3.69 0.7		984.22	983.48	984.39	0.17	0.40	1.00	0.21 0	.38	985.18 984.77	984 38	987.60
J30.600.900.900.900.900.900.900.900.900.97.30.97.30.97.40.900.97.70.98.230.98.170.98.230.98.170.000.10<	J3 0.83 0.90 0.90 13.5 0.15 5.42 4.05	36.86 0.50	15 4.58	1.23	3.73	4.21 1.0	2	982.98	982.80	984.12	0.15	0.40	0.40	0.11 0	.26	984.25 984.38		
J2 0.95 0.96 0.90 0.90 5.0 7.35 6.29 J1 2.38 0.90 0.90 1.42 0.07 5.31 11.37 6.29 J4 0.16 0.90 0.90 5.0 7.35 6.29 98.25 99.25	J3 0.60 0.90 0.90 5.0 7.35 3.97		10 7.15	A 77	4.04	4.70 4.0		000.00	004.50	002.40		0.40	1.00	0.05	04	002.02	984.23	987.17
J1 2.38 0.90 0.90 14.2 0.07 5.31 11.37 30.82 1.15 24 24.33 3.14 7.74 7.60 0.93 980.68 982.28 0.08 0.40 1.00 0.98 983.25 0 0 0 990.25 J4A 0.16 0.90 0.90 5.0 7.35 1.06 0 0 0 0 0 980.68 982.28 0.08 0.40 1.00 0.90 983.25 0 0 0 0 0 0 0.98 983.25 0		154.84 0.50	18 /.45	1.//	4.21	4.78 1.0		982.30	981.53	983.19	<u>80.0</u>	0.40	1.00	0.35 1	.04	983.92 984.23	983.25	985.05
JA 0.16 0.90 0.90 5.0 7.35 1.06 JA 0.16 0.16 0.90 0.90 5.0 7.35 1.06 JA 0.16 0.16 0.90 0.90 5.00 7.35 1.06 990.25 JA 0.16 0.16 0.90 0.90 1.02 984.99 990.25 JA 0.16 0.90 0.90 1.02 984.40 0.10 0.10 0.10 0.10 984.99 984.61 1.00	J1 2.38 0.90 0.90 14.2 0.07 5.31 11.37	30.82 1.15	24 24.33	3.14	7.74	7.60 0.9	3		980.68	982.28	0.08	0.40	1.00	0.90 0	.98	982.89 983.25		
	J4A 0.16 0.90 0.90 5.0 7.35 1.06 J4 0.16 0.90 0.90 14.2 0.31 5.30 0.76	<u> </u>	15 6 48	1 23	5 28	3 54 0 6			983 48	984 41	0.01	0.40	1 00	0 19 0	20	984 99 984 61	984.99	990.25
		00.02 1.00	10 0.40	1.20	0.20	0.01 0.0	~		000.40		0.01	UTU	1.00	0.10 0	0	001.00 00 1 .01		

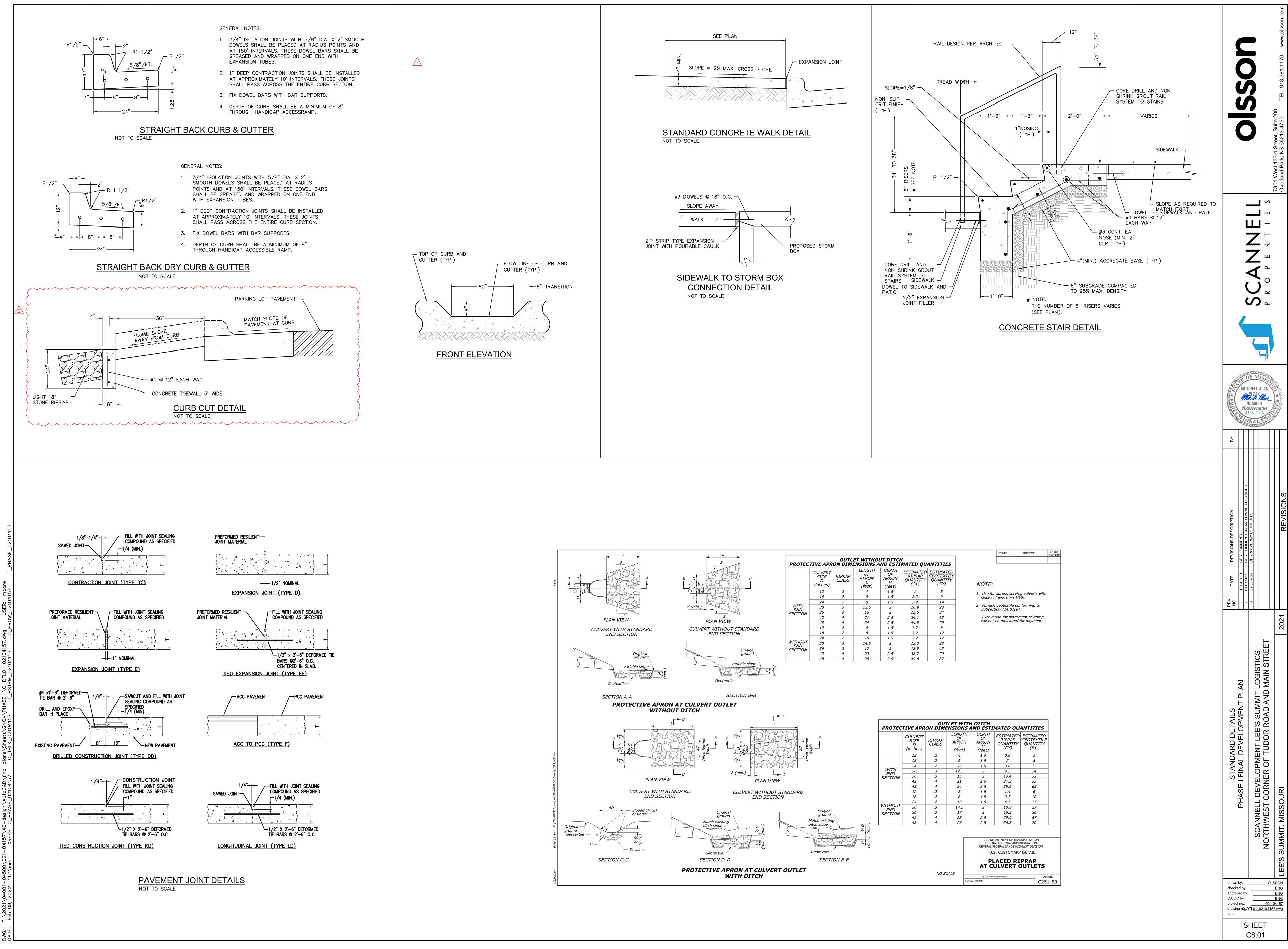
STORM SEWER PIPE AND STRUCTURE TABLE																				
TITLE: Lee's Summit Logistics JOB #: 021-04157																				
DESIGN CONDITIONS: PRIVATE - 100 YEAR STORM EVENT																			1	
STRUCTURES RUNOFF CALCULATIONS DIRECT TOTAL		E								DOWNSTREAM	EN	NTRY LOSS	ACTUAL			HW,	HYDRAULI		RAULIC	
FROM TO AREA AREA C KC IC TIME INTENSITY DESIGN Q DESCRIPTION	PIPE LENGTH (L.F.)					IGN V F/S) Hw/D		FLOWLINE	DOWNSTREAM FLOWLINE	WATER	FRICTION CC	DEFFICIENT	ENTRY		f+hm HW, IN (FT) CONTF		GRADE	GR	RADE	Comments
(ACRES) (ACRES) (K=1.25) (MIN) (MIN) (IN/HR) (CFS)	(%)	`	, (,				ELEVATION		(k)	LOSS (k)				ELEV.	(M)	IAX)	
B8 0.26 0.90 1.00 5.0 10.32 2.68	440.00 4.70	-	4.5	0.57		40.000	989.21	000.07	004.05	001.00	0.00	0.40	4.00	0.50	0.05	20 000.07	984.70	98	37.71	
B7 0.26 0.90 1.00 5.0 0.40 10.32 2.68 B7 0.15 0.90 1.00 5.0 10.32 1.55	149.63 1.75		15	8.57 1	.23 6.98 6	.18 0.82	986.99	983.67	981.05	981.86	0.26	0.40	1.00	0.59	0.85 984.7	0 983.67	981.85	98	35.49	
B6 0.41 0.90 1.00 5.4 0.09 10.16 4.16 B6 0.25 0.90 1.00 5.0 10.32 2.58	36.71 1.75	5 18	15	8.57 1	.23 6.98 6	.93 1.04	986.66	980.55	979.91	980.94	0.15	0.40	0.40	0.30	0.45 981.8	981.39	981.43	00	35.16	
B5 0.66 0.90 1.00 5.5 0.11 10.12 6.68	62.45 2.75	5 15	15 ^	10.74 1	.23 8.75 9	.21 1.61		979.41	977.69	978.92	0.68	0.40	0.40	0.53	1.20 981.4	3 980.13				
B5 0.00 0.90 1.00 5.0 10.32 0.00 B4 0.66 0.90 1.00 5.6 0.23 10.08 6.65	108.57 1.75	5 14	15	8.57 1	.23 6.98 7	.70 1.61	981.96	977.19	975.29	976.64	1.16	0.40	0.40	0.37	1.53 979.2	20 978.17	979.20	98	30.46	
B4 0.24 0.90 1.00 5.0 10.32 2.48							983.51										977.76	98	32.01	
B3 0.90 0.90 1.00 5.8 0.23 9.98 8.99 B3 0.11 0.90 1.00 5.0 10.32 1.14	101.11 1.75		15	8.57 1	.23 6.98 7	2.38	982.70	974.79	973.02	974.85	1.98	0.40	0.40	0.33	2.31 977.7	6 977.16	#VALUE!	! 98	31.20	
B2 11.21 0.90 1.00 6.1 0.09 9.90 110.93 B2 0.32 0.90 1.00 5.0 10.32 3.30	116.86 6.00) 3(30 1	100.74 4	.91 20.52 2	2.60 8.81	973.04	972.52	965.51	#VALUE!	8.61	0.40	0.40	3.17	11.78 994.5	4 #VALUE!	976.84	07	71.54	
B1 11.21 0.90 1.00 6.2 0.02 9.86 110.56	23.41 1.75	5 36	36 8	88.47 7	.07 12.52 1	5.64 3.92	975.04	965.08	964.67	968.31	0.65	0.40	0.40	1.52	2.17 976.8	970.47	970.04	97	1.54	
C3 1.84 0.90 12.93 18.99							983.89			976.66							981.56		32.39	
C2 1.84 0.90 1.00 5.0 1.16 10.32 18.99	420.00 0.50) 24	24 ^	16.04 3	.14 5.11 6	.05 1.40		978.76	976.66		2.99	0.40	1.00	0.57	3.56 981.5	6 978.76				
C2 1.80 0.90 1.00 5.0 10.32 18.58 C1 3.64 0.90 1.00 6.2 0.68 9.86 35.90	299.07 0.50) 30	30 2	29.08 4	.91 5.92 7	.31 1.52	984.09	976.46	974.96	974.96	2.31	0.40	1.00	0.83	3.14 980.2	.7 976.46	980.27	98	32.59	
C1 0.14 0.90 1.00 5.0 10.32 1.45 B3 10.20 0.90 1.00 6.8 0.09 9.61 98.02	75.97 1.00) 20	36 6	66.88 7	.07 9.46 1	3.87 3.22	986.25	974.46	973.70	973.70	1.65	0.40	0.40	1.19	2.85 984.1	3 974.46	984.13	98	34.75	
0.00 12.93	10.97			00.00	.07 9.40 1	5.07 5.22	982.7	374.40	915.10		1.00	0.40	0.40	1.13	2.03 304.1	5 374.40				
D4 2.43 0.90 1.00 5.0 10.32 25.08 D3 2.43 0.90 1.00 5.0 0.75 10.32 25.08	300.00 0.50) 30	30 2	29.08 4	.91 5.92 6	.65 1.09	986.70	980.51	979.01	981.66	1.13	0.40	1.00	0.69	1.82 983.2		983.47	98	35.20	
D3 2.02 0.90 1.00 5.0 10.32 20.85 D2 4.45 0.90 1.00 5.8 0.55 10.02 44.58							985.90										985.00	98	34.40	
D2 1.72 0.90 1.00 5.0 10.32 17.75	300.00 0.50) 30	30 2	29.08 4	.91 5.92 9	08 1.98	985.98	978.81	977.31	980.92	3.57	0.40	0.40	0.51	4.08 983.7	985.00	982.79	98	34.48	
D1 6.17 0.90 1.00 6.3 0.58 9.81 60.51 D1 0.00 0.90 1.00 5.0 10.32 0.00	296.19 0.50) 36	36 4	47.29 7	.07 6.69 8	.56 1.64	987.10	977.11	975.63	979.89	2.45	0.40	0.40	0.46	2.91 982.0	982.79	980.17	08	35.60	
C1 6.42 0.90 1.00 6.9 0.06 9.60 61.60	33.04 0.50) 30	36 4	47.29 7	.07 6.69 8	.72 1.68		975.13	974.96	978.60	0.28	0.40	0.40	0.47	0.76 980.1	7 979.35				
E1 0.25 0.90 1.00 5.0 10.32 2.58 D1 0.25 0.90 1.00 6.9 0.35 9.57 2.39	125.00 1.75	5 18	15	8.57 1	.23 6.98 5	.99 0.79	988.44	983.24	981.05	982.14	0.17	0.40	1.00	0.56	0.73 984.2	3 983.24	984.23	98	36.94	
F7 0.04 0.90 1.00 5.0 10.32 0.41 F6 0.04 0.90 1.00 7.3 0.20 9.45 0.38	34.92 1.00		15			.89 0.67	989.56	984.00	983.65	983.97	0.00	0.40	1 00	0.12	0.12 004.0	0.001 10	984.84	98	38.06	
F6 0.23 0.90 1.00 5.0 10.32 2.37	54.92 1.00		15	6.48 1			989.33				0.00	0.40			0.13 984.8	904.10	984.16	98	37.83	
F5 0.27 0.90 1.00 7.5 0.35 9.38 2.53 F5 0.00 0.90 1.00 5.0 10.32 0.00	104.17 1.00) 18	15	6.48 1	.23 5.28 4	.95 0.81	988.89	983.15	982.11	982.97	0.16	0.40	1.00	0.38	0.54 984.1	6 983.51	982.61	98	37.39	
F4 0.27 0.90 1.00 7.8 0.20 9.26 2.50	57.81 1.00) 1:	15	6.48 1	.23 5.28 4	.94 0.80		981.61	981.03	981.89	0.09	0.40	0.40	0.15	0.24 982.6	982.12				
F4 0.23 0.90 1.00 5.0 10.32 2.37 F3 0.50 0.90 1.00 8.0 0.29 9.20 4.60	97.95 1.00) 1:	15	6.48 1	.23 5.28 5	.72 1.12		980.53	979.55	980.76	0.50	0.40	1.00	0.51	1.01 981.9	981.77	981.93		35.82	
F3 1.06 0.90 1.00 5.0 10.32 10.94 F2 5.72 0.90 1.00 8.3 0.15 9.10 52.07	97.87 1.00) 3(30 4	41.13 4	.91 8.38 1	0.61 2.46	986.41	975.31	974.33	977.99	1.59	0.40	0.40	0.70	2.29 981.4	7 980.28	981.47	98	34.91	
F2 0.65 0.90 1.00 5.0 10.32 6.71							984.87										980.35	98	33.37	
F1 8.31 0.90 1.00 8.5 0.05 9.05 75.24 G5 0.24 0.90 1.00 5.0 10.32 2.48	34.50 1.00) 36	36 6	66.88 7	.07 9.46 1	2.17	1004.48	973.83	973.48	977.12	0.44	0.40	0.40	0.70	1.15 980.3	978.26	996.96	100	02.98	
G4 0.24 0.90 1.00 8.5 0.43 9.04 2.17	209.36 4.50) 1:	15 ^	13.74 1	.23 11.20 8	.16 0.77	993.22	996.00	986.58	987.21	0.24	0.40	1.00	1.04	1.27 996.9	6 996.00			91.72	
G3 0.56 0.90 1.00 9.0 0.42 8.90 4.99	215.13 2.75	5 15	15 ŕ	10.74 1	.23 8.75 8	.57 1.20		986.08	980.16	981.21	1.30	0.40	1.00	1.14	2.44 987.5	986.08				
G3 0.46 0.90 1.00 5.0 10.32 4.75 G2 1.02 0.90 1.00 9.4 0.93 8.77 8.95	282.75 0.50) 18	18	7.45 1	.77 4.21 5	.06 1.35	987.20	979.66	978.25	980.33	2.08	0.40	1.00	0.40	2.47 981.6	9 982.80	982.80	98	35.70	
G2 2.08 0.90 1.00 5.0 10.32 21.47							986.05										981.07	98	34.55	
G1 3.10 0.90 1.00 10.3 0.36 8.50 26.36 G1 1.06 0.90 1.00 5.0 10.32 10.94	144.00 0.50					.70 1.13	986.07	977.75	977.03	979.77	0.60	0.40	1.00		1.30 980.5		980.31	98	34.57	
F3 4.16 0.90 1.00 10.7 0.34 8.40 34.96 H2 1.33 0.90 1.00 5.0 10.32 13.73	144.00 0.50) 30	30 2	29.08 4	.91 5.92 7	.12 1.48	985.24	976.53	975.81	978.95	1.05	0.40	0.40	0.32	1.37 980.2	980.31	982.64	00	33.74	
H1 1.33 0.90 1.00 11.0 0.38 8.31 11.05	144.00 0.50) 18	18	7.45 1	.77 4.21 6	.26 1.71		979.00	978.28	980.42	1.61	0.40	1.00	0.61	2.22 981.5	6 982.64				
H1 0.61 0.90 1.00 5.0 10.32 6.30 F2 1.94 0.90 1.00 11.4 0.41 8.21 15.93	144.00 0.50) 24	24	16.04 3	.14 5.11 5	.80 1.18	985.24	978.08	977.36	979.63	0.72	0.40	0.40	0.21	0.93 980.4	4 980.56	980.56	98	33.74	
J5 0.44 0.90 1.00 5.0 10.32 4.54							989.82										985.41	98	38.32	
J4 0.44 0.90 1.00 11.8 0.60 8.10 3.56 J4 0.23 0.90 1.00 5.0 10.32 2.37	147.41 0.50		15			0.94	989.10		983.48	984.69	0.45	0.40	1.00		0.72 985.3			98	37.60	
J3 0.83 0.90 1.00 12.4 0.11 7.95 6.60 J3 0.60 0.90 1.00 5.0 10.32 6.19	36.86 0.50) 15	15	4.58 1	.23 3.73 5	.38 1.59	988.67	982.98	982.80	984.57	0.39	0.40	0.40	0.18	0.57 984.9	985.14	986.13	08	37.17	
J2 1.43 0.90 1.00 12.5 0.40 7.92 11.33	154.84 0.50) 18	18	7.45 1	.77 4.21 6	.41 1.76		982.30	981.53	983.67	1.82	0.40	1.00	0.64	2.46 984.9	986.13				
J2 0.95 0.90 1.00 5.0 10.32 9.81 J1 2.38 0.90 1.00 12.9 0.06 7.83 18.63	30.82 1.15	5 24	24 2	24.33 3	.14 7.74 8	.51 1.37	986.55	981.03	980.68	982.63	0.21	0.40	1.00	1.13	1.34 983.7	7 983.97	983.97	98	35.05	
J4A 0.16 0.90 1.00 5.0 10.32 1.65							991.75										985.02	99	90.25	
J4 0.16 0.90 1.00 13.0 0.27 7.81 1.25	66.02 1.00		15	6.48 1	.23 5.28 4	.08 0.70		984.14	983.48	984.49	0.03	0.40	1.00	U.20	0.28 985.0	984.//				

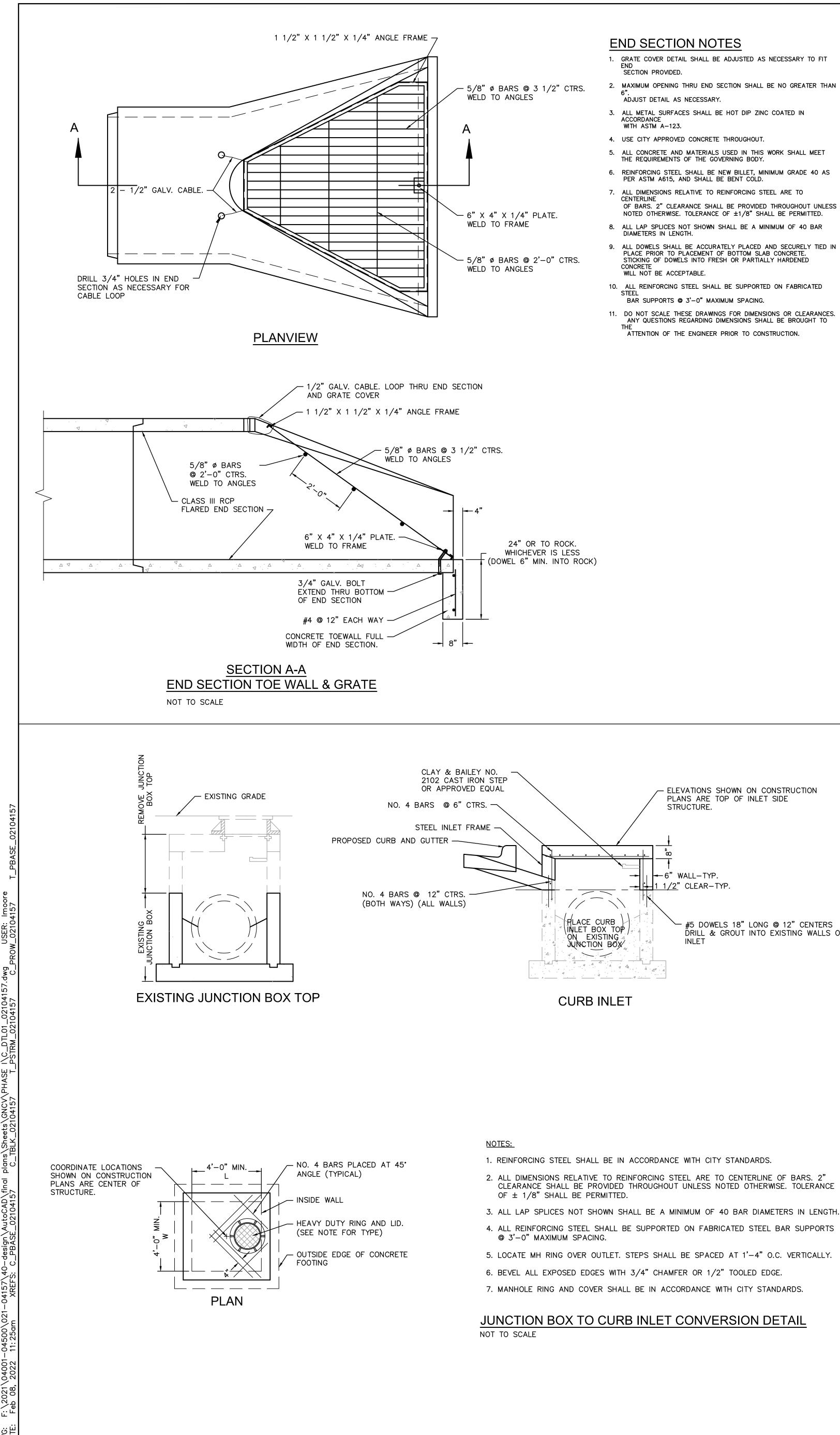
100 YEAR STORM CALCULATIONS











END SECTION NOTES

- 1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT SECTION PROVIDED.
- 2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN ADJUST DETAIL AS NECESSARY.
- 3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN
- ACCORDANCE WITH ASTM A-123.
- 4. USE CITY APPROVED CONCRETE THROUGHOUT.
- 5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
- 6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8$ " SHALL BE PERMITTED.
- 8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- 10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

- ELEVATIONS SHOWN ON CONSTRUCTION PLANS ARE TOP OF INLET SIDE STRUCTURE. -6" WALL-TYP. <u>+ 1 1/2</u>" CLEAR-TYP FLACE CURB INLET BOX TOP ON EXISTING A JUNCTION BOX \sim

CURB INLET

#5 DOWELS 18" LONG @ 12" CENTERS DRILL & GROUT INTO EXISTING WALLS OF

NOTE: STEEL INLET FRAME (6" THROAT) -LIP OF CURB -3-#4 BARS SHALL BE PLACED SAME -AS CURB AND GUTTER REINFORCING 1" GALVANIZED HARDWARE CLOTH AND FILTER FABRIC (TERRATEX SD OR APPROVED EQUAL) SHALL BE PLACED IN FRONT OF 4" DRAIN PIPE PRIOR TO PLACING ROCK 15" IN ALL DIRECTIONS. 2-4" DRAIN PIPES (LOCATE TOP OF

8" MIN. LOW PERMEABLE SOIL -

REINFORCED SOIL APPROXIMATE LIMITS OF EXCAVATION RETAINED SOIL 4" PERFORATED PVC DRAINAGE TILE

DIM PER ENGINEERED PLANS BY CONTRACTOR

|-−−1'−6" **-−−**| DRAIN PIPE BELOW ASPHALT BASE) #4 BARS @ 12" CENTERS -(BOTH WAYS) (ALL WAYS) CONCRETE FOOTING

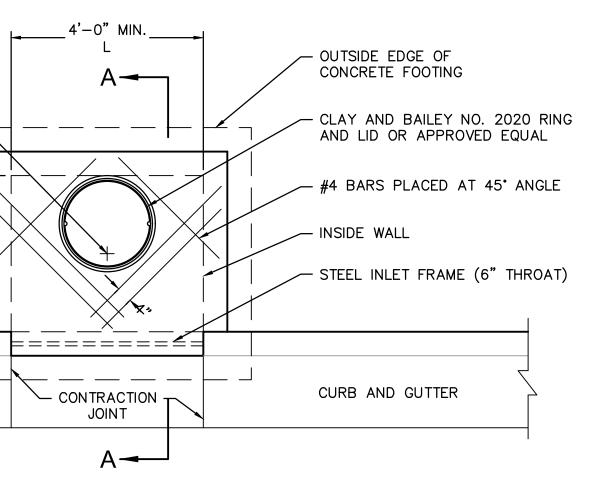
TRANSITION CURB AND GUTTER TO MATCH PROPOSED CURB INLET IN 3' (TYPICAL BOTH SIDES)

ELEVATION AND

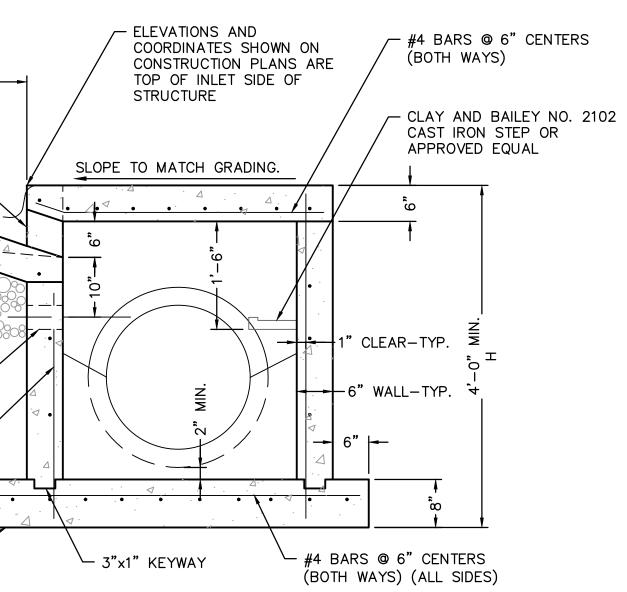
COORDINATES SHOWN ON

CENTER OF STRUCTURE

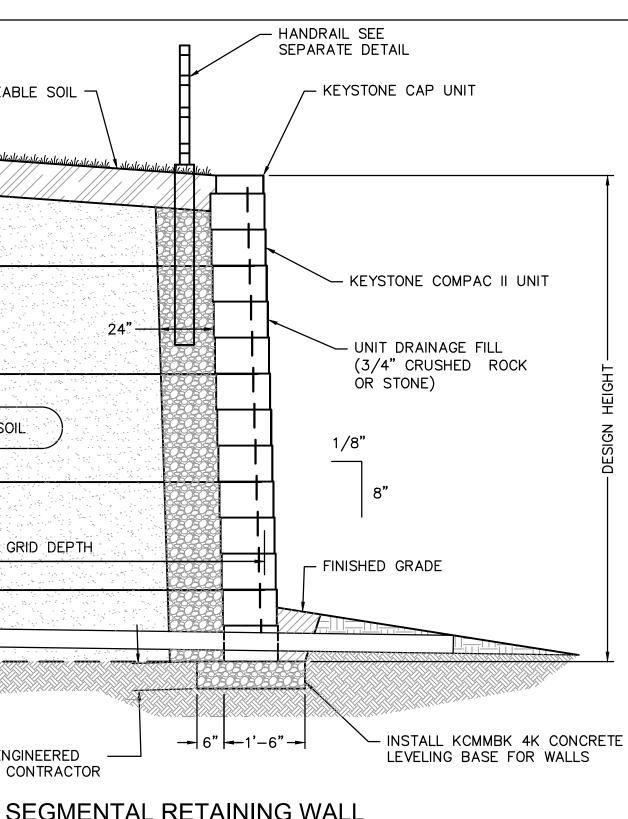
CONSTRUCTION PLANS ARE







SECTION A-A NON-SETBACK CURB INLET NOT TO SCALE



SEGMENTAL RETAINING WALL NOT TO SCALE

NON-SETBACK CURB INLET NOTES

- 1. USE CITY APPROVED CONCRETE THROUGHOUT.

- 4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT
- SPACED AT 1'-4" O.C. VERTICALLY.
- 7. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
- INLETS SHALL BE LEVEL.
- DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
- ASTM A615, AND SHALL BE BENT COLD.
- OTHERWISE. TOLERANCE OF $\pm 1/8$ " SHALL BE PERMITTED.
- 12. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- ACCEPTABLE.
- BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- CURING COMPOUND.
- CURB CONSTRUCTION, OR AS DIRECTED BY THE CITY ENGINEER.
- STANDARDS.
- OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
- THE CITY ENGINEER.

RETAINING WALL NOTES

THE CONTRACTOR.

ENGINEER REGISTERED IN THE STATE OF MISSOURI.

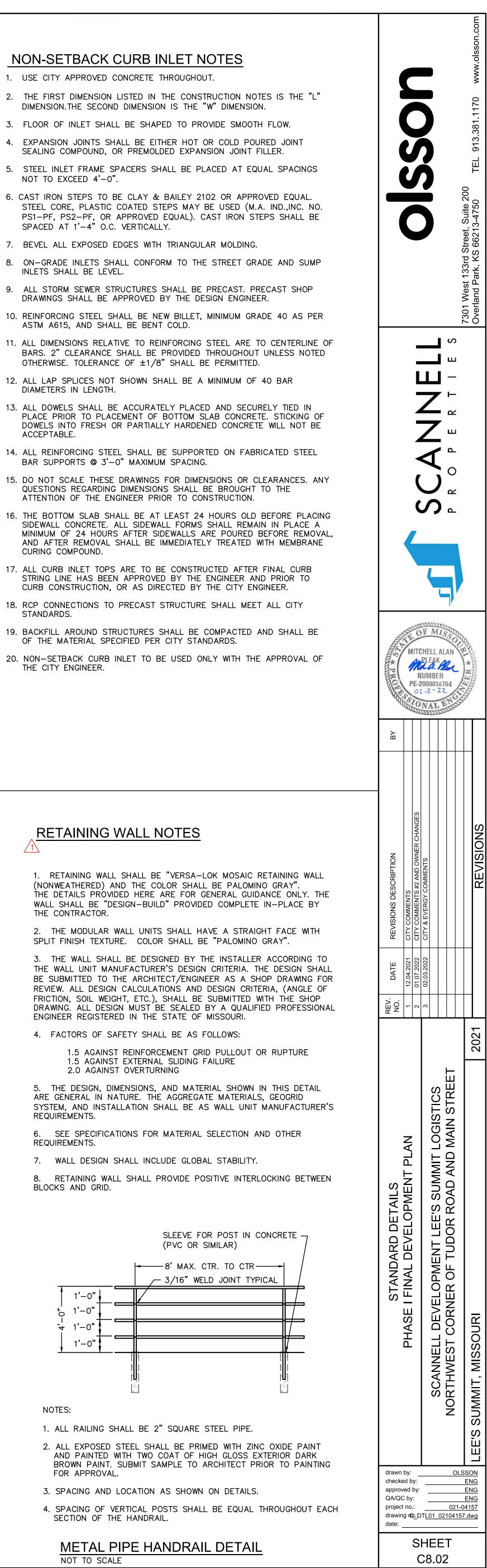
- 4. FACTORS OF SAFETY SHALL BE AS FOLLOWS:
 - 1.5 AGAINST EXTERNAL SLIDING FAILURE

REQUIREMENTS.

REQUIREMENTS.

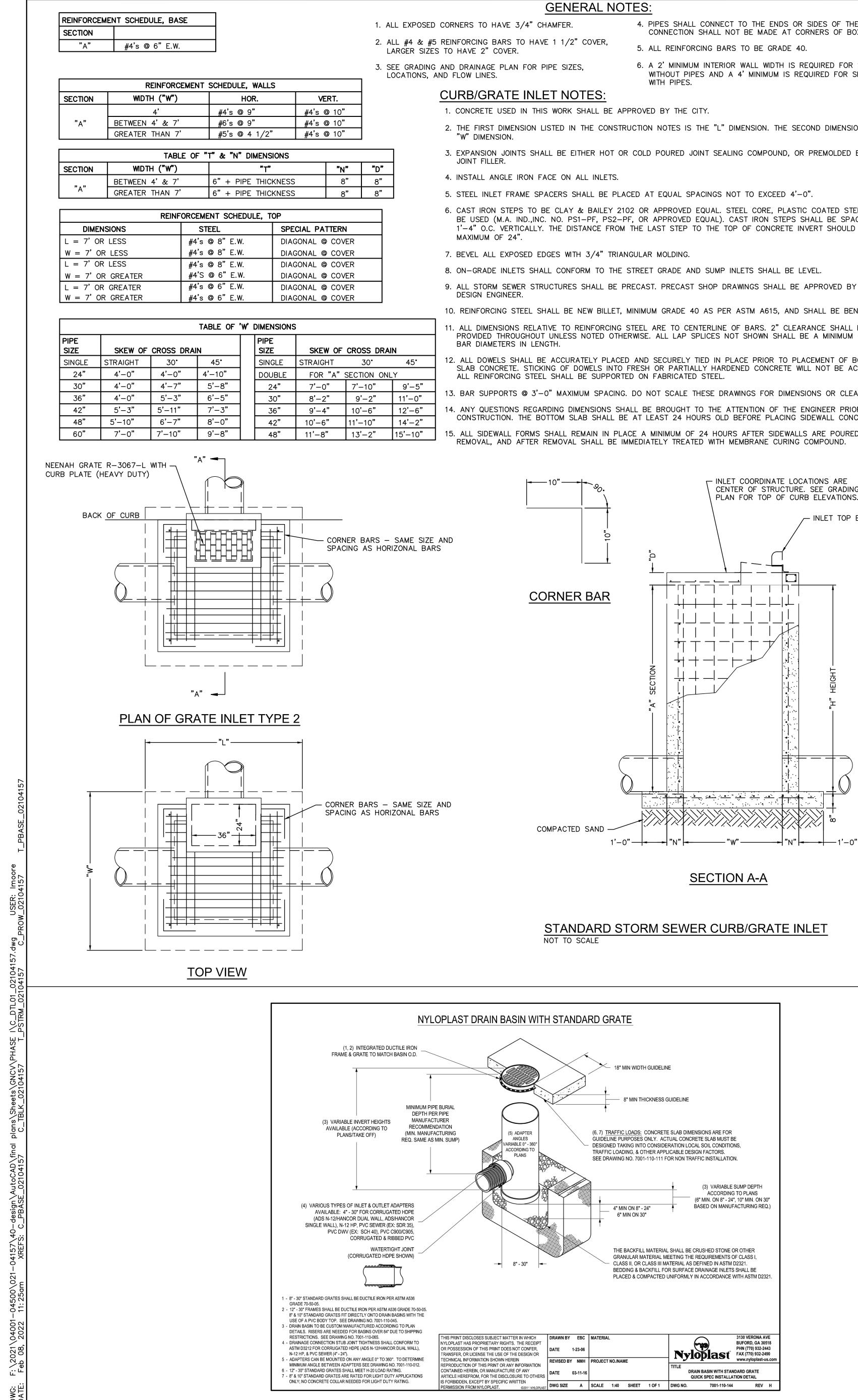
7. WALL DESIGN SHALL INCLUDE GLOBAL STABILITY.

BLOCKS AND GRID.

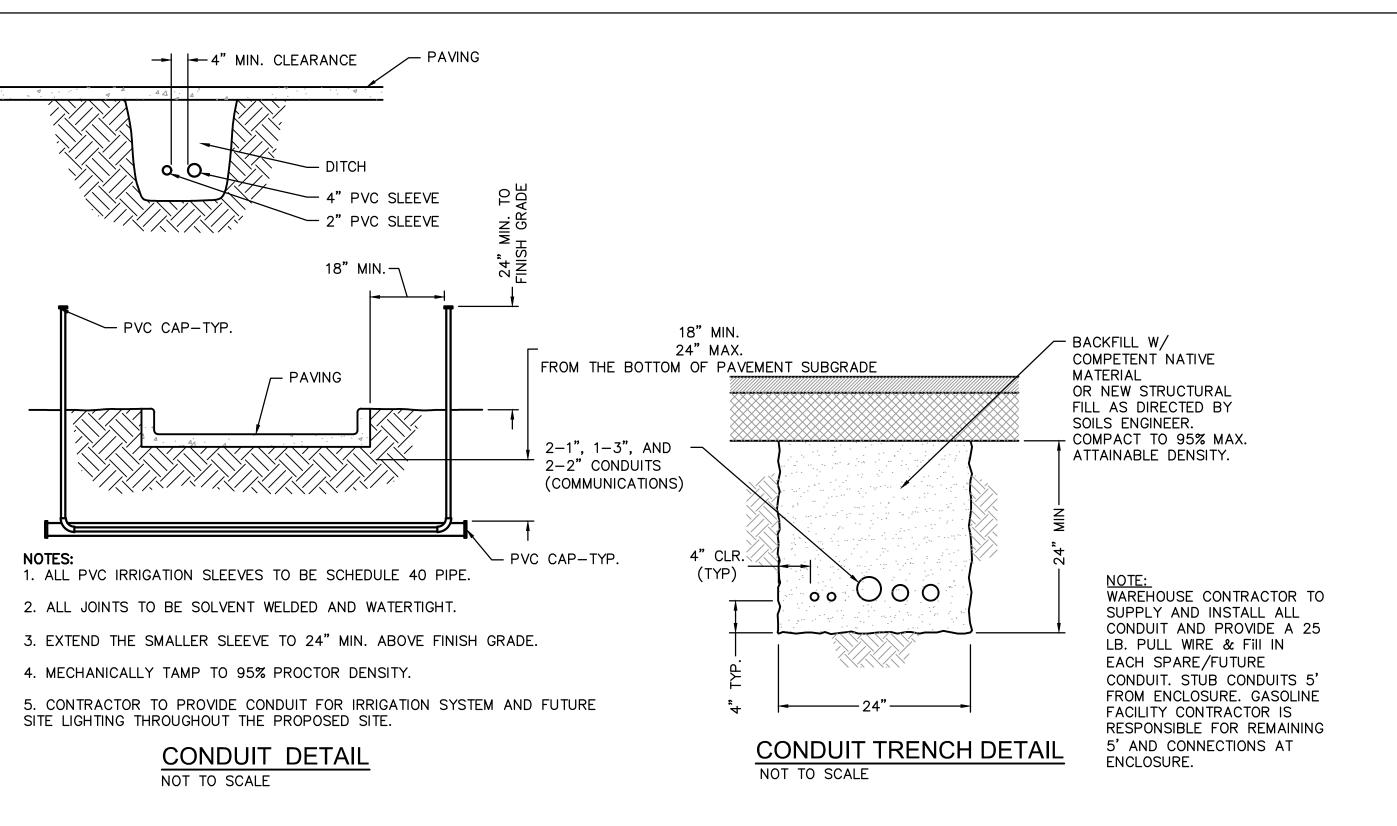


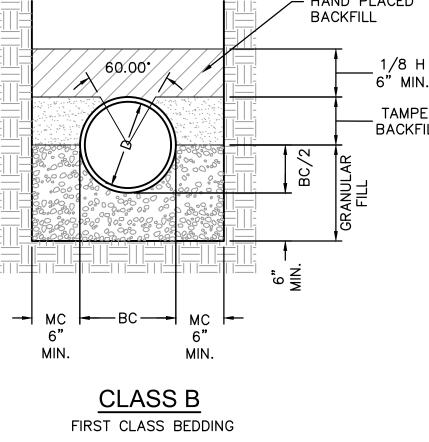
NOTES:

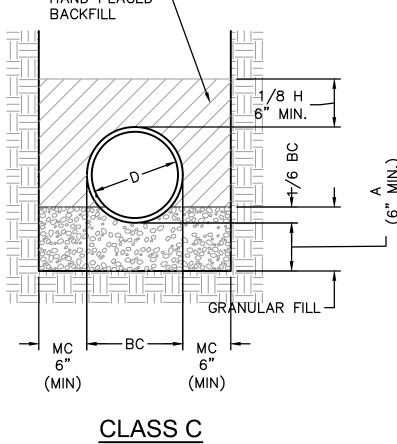
- 1. ALL RAILING SHALL BE 2" SQUARE STEEL PIPE.
- FOR APPROVAL.



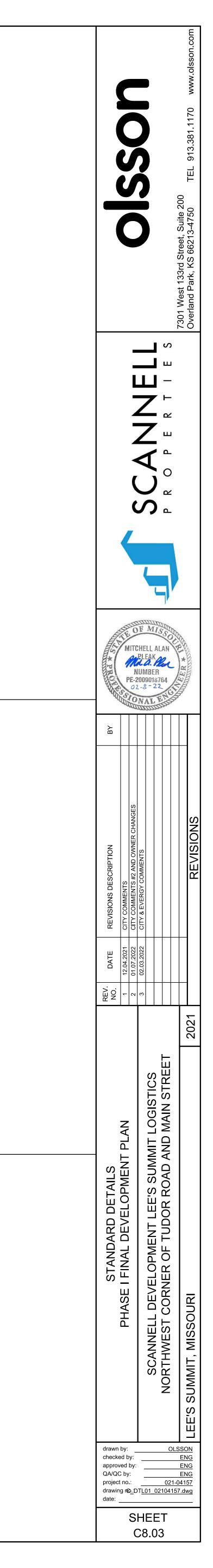
GENERAL NO						
" CHAMFER. HAVE 1 1/2" COVER,	4. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF BOX.					
	5. ALL REINFORCING BARS TO BE GRADE 40.					
OR PIPE SIZES,	6. A 2' MINIMUM INTERIOR WALL WIDTH IS REQUIRED FOR SIDES WITHOUT PIPES AND A 4' MINIMUM IS REQUIRED FOR SIDES				$\frac{\text{LEGEND}}{\text{BC} = \text{OUTSIDE DIAMETER OF PIPE}}$	
NLET NOTES:	WITH PIPES.	TABLE OF FIL	LL DEPTHS B	ELOW PIPE	H = BACKFILL COVER ABOVE TOP OF PIPE	
	APPROVED BY THE CITY.				D = NOMINAL PIPE DIAMETER	
ON LISTED IN THE CONS	TRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE	D A	"A" MIN.	"A" MIN. IN		
SHALL BE EITHER HOT	OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION			ROCK	MC = MINIMUM SIDEWALL CLEARANCE (SEE TABLE	E)
		27" & SMALLER	6"	6"		HAND PLACED BACKFILL
N FACE ON ALL INLETS.	ACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".	30"TO 66"	6"	9"	HAND PLACED	
	2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY	66" & LARGER	6"	12"	60.00 1/8 н	
,INC. NO. PS1-PF, PS2-	-PF, OR APPROVED EQUAL). CAST IRON STEPS SHALL BE SPACED AT M THE LAST STEP TO THE TOP OF CONCRETE INVERT SHOULD BE A				6" MIN. TAMPED	
D EDGES WITH 3/4" TRI	ANGULAR MOLDING.	TABLE C	OF TRENCH V	VIDTHS		
SHALL CONFORM TO TH	E STREET GRADE AND SUMP INLETS SHALL BE LEVEL.					
STRUCTURES SHALL BE	PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE	PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH (INCHES)	MINIMUM SIDE WALL CLEARANCE (INCHES)		
L SHALL BE NEW BILLET	, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.			· · ·		
IOUT UNLESS NOTED OT	G STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE HERWISE. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40	18	35	6	→ MC → BC → MC →	
LENGTH.	ED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM	21	39	6 1/2	6" 6" MIN. MIN.	6" 6" (MIN) (MIN)
TICKING OF DOWELS INT	D FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.	24	44	7		
3'-0" MAXIMUM SPACIN	IG. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES.	27	49	8	CLASS B FIRST CLASS BEDDING	CLASS C ORDINARY BEDDING
	HALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE.	30	54	8 1/2	BEDDING NOTES	
MS SHALL REMAIN IN P	LACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE	33	58	9	1. GRANULAR FILL TO BE CRUSHED STONE OR PEA	
ER REMOVAL SHALL BE	IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.	36	64	10	PASSING 1/2" SIEVE AND NOT LESS THAN 95% T PLACED IN NOT MORE THEN 6" LAYERS AND COM	
		42	73	11	2. TAMPED BACKFILL SHALL BE FINELY DIVIDED JOB DEBRIS, ORGANIC MATERIAL AND STONES, COMPA	
	CENTER OF STRUCTURE. SEE GRADING	48	83	12 1/2	DETERMINED BY AASHTO STANDARD METHOD T-9 SUBSTITUTED FOR ALL OR PART OF TAMPED BAC	99. GRANULAR FILL MAY BE
	PLAN FOR TOP OF CURB ELEVATIONS.	54	92	13 1/2	3. HAND PLACED BACKFILL SHALL BE FINELY DIVIDE STONES.	ED MATERIAL FREE FROM DEBRIS AND
	- INLET TOP ELEVATION	60	102	15	STURES.	
		66	109	15		
CORNER BAR					STORM SEWER TRENCH DETAIL	
					NOT TO SCALE	-
				CLEARANCE F	PAVING	
				<		
			do la		Ш	
				4" PVC SLEEV		
			× / × × / × × / ×		s S S H S S S S S S S S S S S S S	

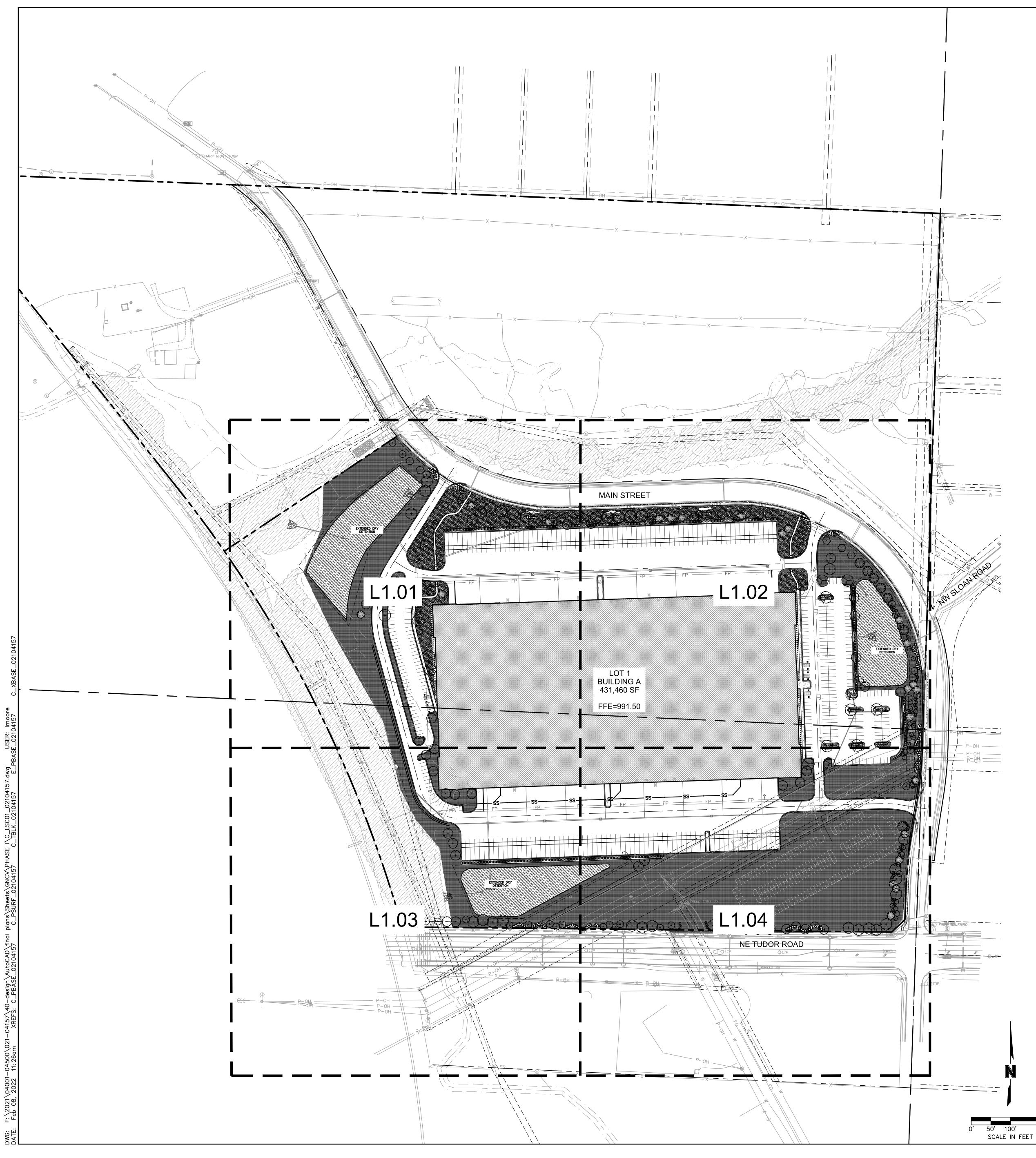






- TO BE VEL
- AND





LANDSCAPE CALCULATIONS - LOT 1

SCREENING.

1 SHADE TREE / 1,000 SF 12 SHADE TREES REQUIRED 6 SHADE TREES PROVIDED

1 ORNAMENTAL TREE / 500 SF

60 SHRUBS REQUIRED 67 SHRUBS PROVIDED

1 SHRUB / 200 SF

OPEN YARD AREAS 1 TREE AND 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT AREA AND TRACTS. EXCLUDING BUILDING FOOTPRINT AREA AND TRACTS. 1,008,818 SF /5,000 SF 201.76 TREES REQUIRED

- 77 TREES PROVIDED
- **SEE PLAN FOR EXISTING TREE MASSES TO REMAIN 403.5 SHRUBS REQUIRED 469 SHRUBS PROVIDED

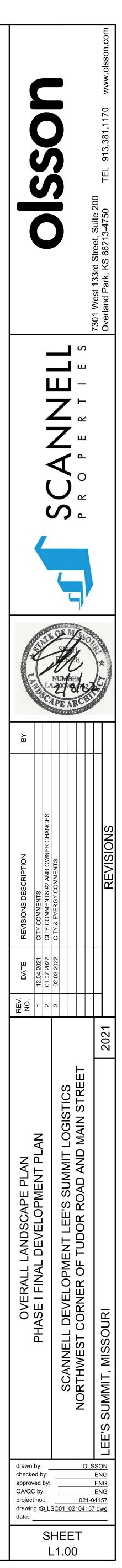
STREET FRONTAGE REQUIREMENT MAIN STREET (SOUTH SIDE)

- 1,334 LF` 1 TREE / 30' OF STREET FRONTAGE
- 44.46 TREES REQUIRED 44 TREES PROVIDED
- 1 SHRUB PER 20' OF STREET FRONTAGE 67 SHRUBS REQUIRED
- 67 SHRUBS PROVIDED
- TUDOR ROAD
- 1,215 LF 1 TREE / 30' OF STREET FRONTAGE
- 40 TREES REQUIRED 40 TREES PROVIDED 1 SHRUB PER 20' OF STREET FRONTAGE
- 60 SHRUBS REQUIRED
- 60 SHRUBS PROVIDED

CIDUOUS TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
\bigcirc	ACER MIYABEI 'STATE STREET' MIYABEI MAPLE	B & B	3"		9
(+) +)	EUCOMMIA ULMOIDES HARDY RUBBER TREE	B & B	3"		12
et e	GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	B & B	3"		5
\bigcirc	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	B & B	3"		14
(v + c)	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	B & B	3"		29
\bigcirc	QUERCUS BICOLOR SWAMP WHITE OAK	B & B	3"		5
+	QUERCUS MACROCARPA BURR OAK	B & B	3"		3
\odot	QUERCUS SHUMARDII SHUMARD RED OAK	B & B	3"		26
	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM BALD CYPRESS	B & B	3"		5
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	B & B	3"		5
	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	B & B	3"		7
$\overline{\langle \cdot \rangle}$	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	B & B	3"		11
ERGREEN TREES	BOTANICAL / COMMON NAME JUNIPERUS VIRGINIANA 'CANAERTII' CANAERTI JUNIPER	SIZE B&B, 8' HT.	CALIPER		QTY 32
	PICEA ABIES NORWAY SPRUCE	B&B, 8' HT.			22
NAMENTAL TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
\bigcirc	ACER TATARICUM 'HOT WINGS' HOT WINGS TATARIAN MAPLE	B&B, 8' HT.			2
(\cdot)	AMELANCHIER CANADENSIS 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	В & В	3"		25
·	CERCIS CANADENSIS EASTERN REDBUD	В & В	3"		26
$\left(\cdot \right)$	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	В & В	3"		8
RUBS	BOTANICAL / COMMON NAME	SIZE			
\bigcirc	BUXUS X 'GREEN VELVET' BOXWOOD	5 GAL			22
\bigcirc	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	5 GAL			45
æ	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	5 GAL			58
\odot	JUNIPERUS CHINENSIS 'GOLD LACE' GOLD LACE JUNIPER	5 GAL			67
\bigcirc	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	5 GAL			358
and the	PANICUM VIRGATUM 'NORTH WIND' NORTHWIND SWITCH GRASS	1 GAL			80
$\overline{\mathbf{\cdot}}$	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	5 GAL			72
\bigcirc	VIBURNUM LANTANA 'MOHICAN' MOHICAN WAYFARING TREE	5 GAL			55
(\cdot)	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	5 GAL			110
OUND COVERS	BOTANICAL / COMMON NAME FESTUCA TURF TYPE TALL FESCUE BLEND	CONT SEED		SPACING	507,237 S
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD			71,349 SF
TIVE VEGETATION	BOTANICAL / COMMON NAME	CONT		SPACING	
	PANICUM VIRGATUM SWITCH GRASS	SEED	1	1	99,023 SF

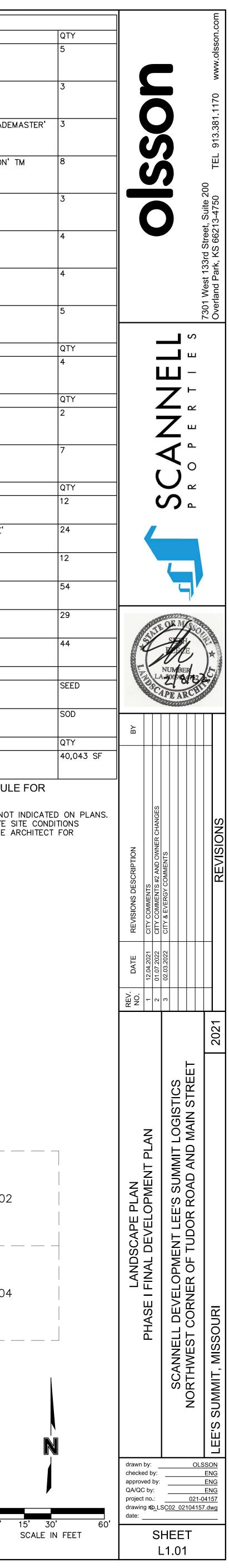
24 ORNAMENTAL TREES REQUIRED 37 ORNAMENTAL TREES PROVIDED 1 EVERGREEN TREE / 300 SF 40 EVERGREEN TREES REQUIRED 43 EVERGREEN TREES PROVIDED

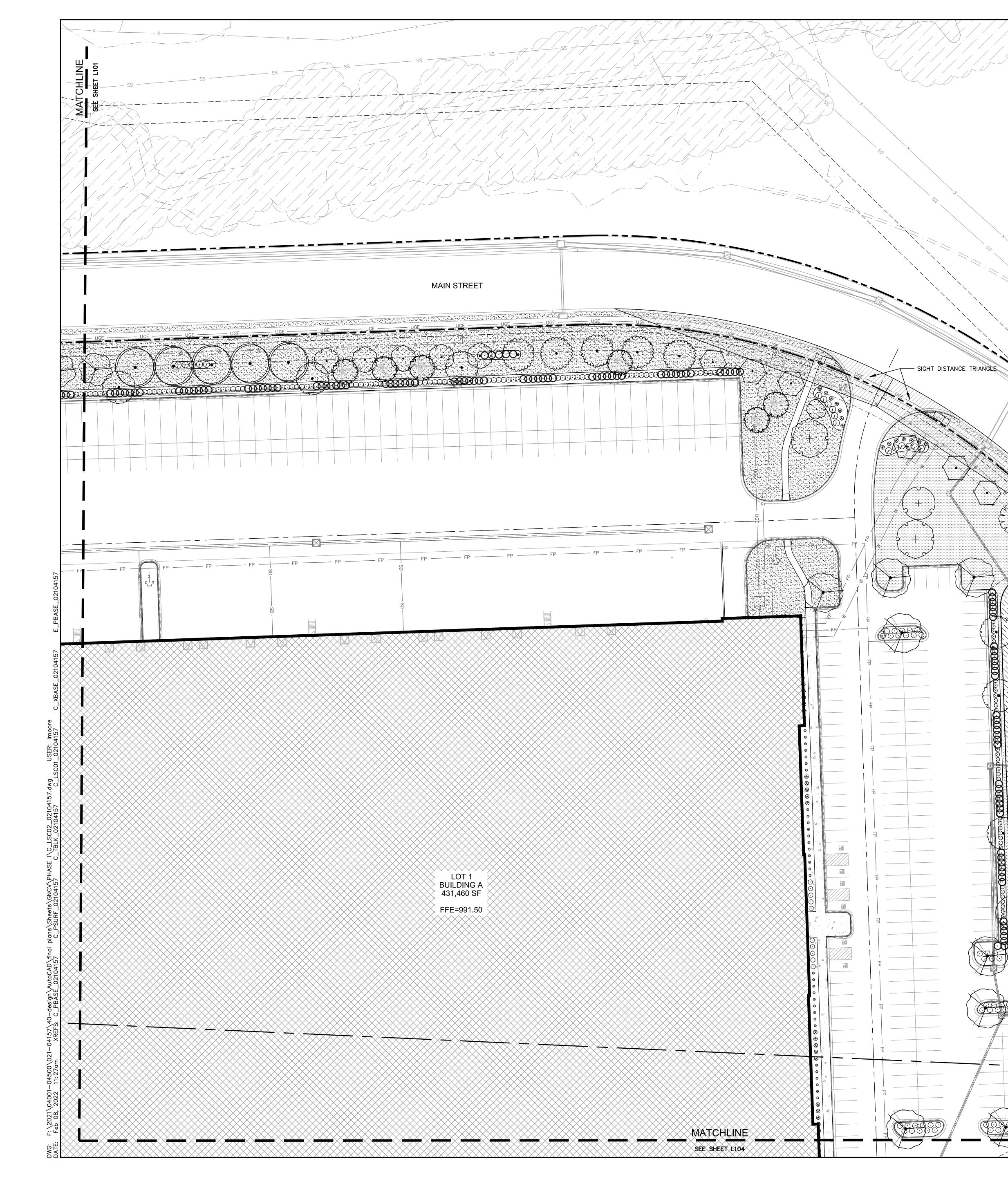
** ADJUSTMENTS MADE DUE TO OVERHEAD POWERLINES

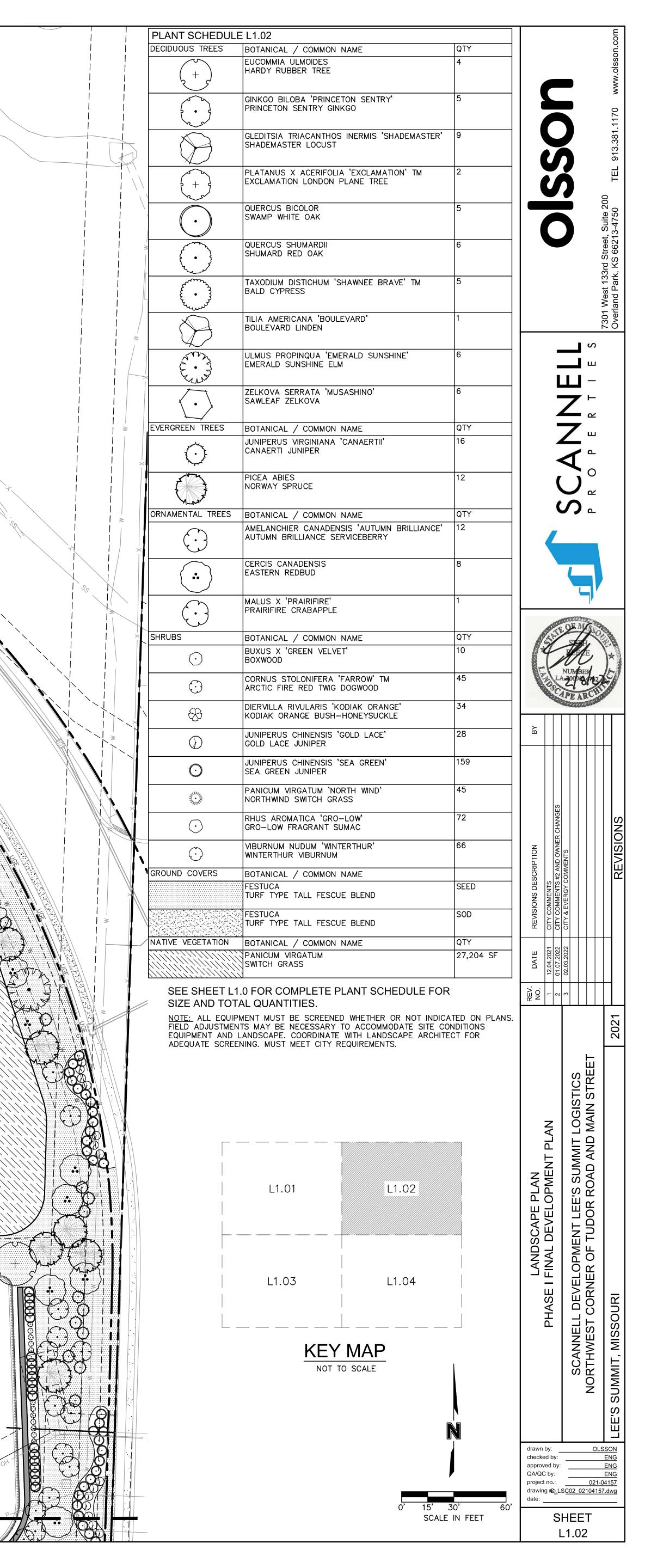


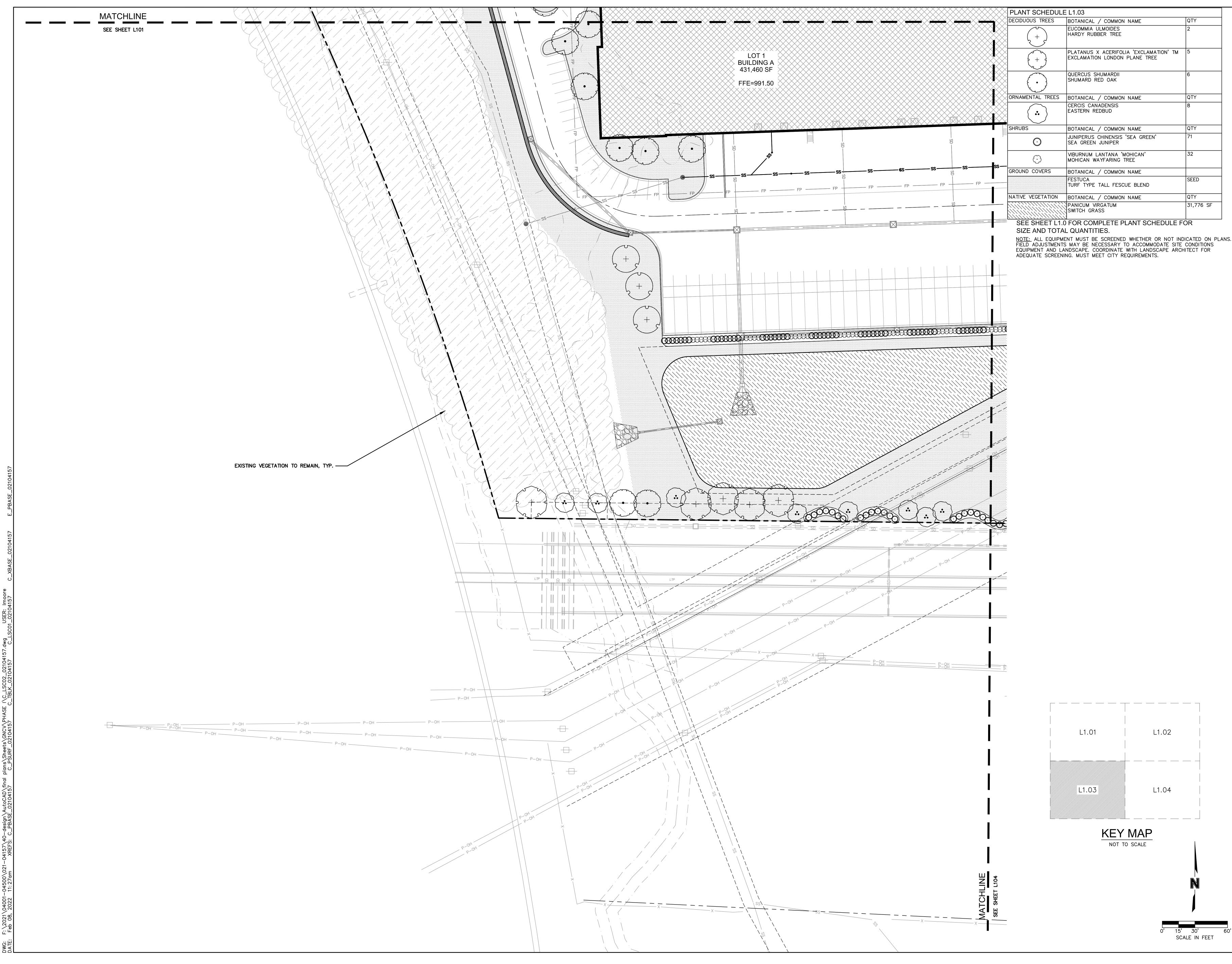


	· _ :		
	— X X X	PLANT SCHEDULE	BOTANICAL / COMMON NAME
	<u> </u>		ACER MIYABEI 'STATE STREET' MIYABEI MAPLE
	CHLINE CHLINE CHLINE SS SS SS SS SS SS SS SS SS SS SS SS SS	SHEET L102	EUCOMMIA ULMOIDES HARDY RUBBER TREE
			GLEDITSIA TRIACANTHOS INERMIS 'SHADEN SHADEMASTER LOCUST
			PLATANUS X ACERIFOLIA 'EXCLAMATION'
			EXCLAMATION LONDON PLANE TREE
			QUERCUS MACROCARPA BURR OAK
		$\left(\begin{array}{c} \\ \\ \end{array} \right)$	QUERCUS SHUMARDII SHUMARD RED OAK
			TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN
			ZELKOVA SERRATA 'MUSASHINO'
		EVERGREEN TREES	SAWLEAF ZELKOVA
			BOTANICAL / COMMON NAME PICEA ABIES NORWAY SPRUCE
	MAIN STREET	ORNAMENTAL TREES	BOTANICAL / COMMON NAME
Uge Uge			CERCIS CANADENSIS EASTERN REDBUD
			MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE
		SHRUBS	BOTANICAL / COMMON NAME
			BUXUS X 'GREEN VELVET' BOXWOOD
			DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE JUNIPERUS CHINENSIS 'GOLD LACE'
			GOLD LACE JUNIPER
			SEA GREEN JUNIPER PANICUM VIRGATUM 'NORTH WIND'
		AND	NORTHWIND SWITCH GRASS
		GROUND COVERS	WINTERTHUR VIBURNUM BOTANICAL / COMMON NAME
			FESTUCA TURF TYPE TALL FESCUE BLEND
			FESTUCA TURF TYPE TALL FESCUE BLEND
	FP FP F		BOTANICAL / COMMON NAME PANICUM VIRGATUM SWITCH GRASS
FP	S S	SEE SHEET L1.0 SIZE AND TOTAL	I FOR COMPLETE PLANT SCHEDULI QUANTITIES.
	S	<u>NOTE:</u> ALL EQUIPME FIELD ADJUSTMENTS	NT MUST BE SCREENED WHETHER OR NOT MAY BE NECESSARY TO ACCOMMODATE S NDSCAPE. COORDINATE WITH LANDSCAPE A
S I			IG. MUST MEET CITY REQUIREMENTS.
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FFE=991.50			
			L1.03 L1.04
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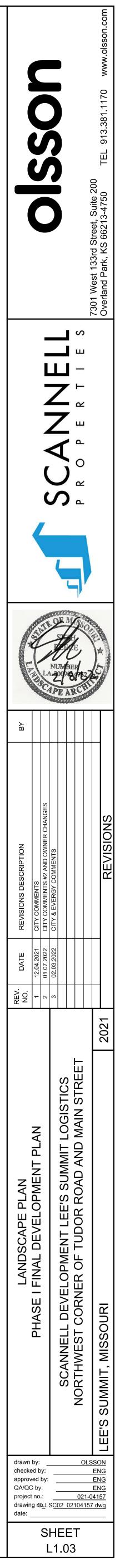


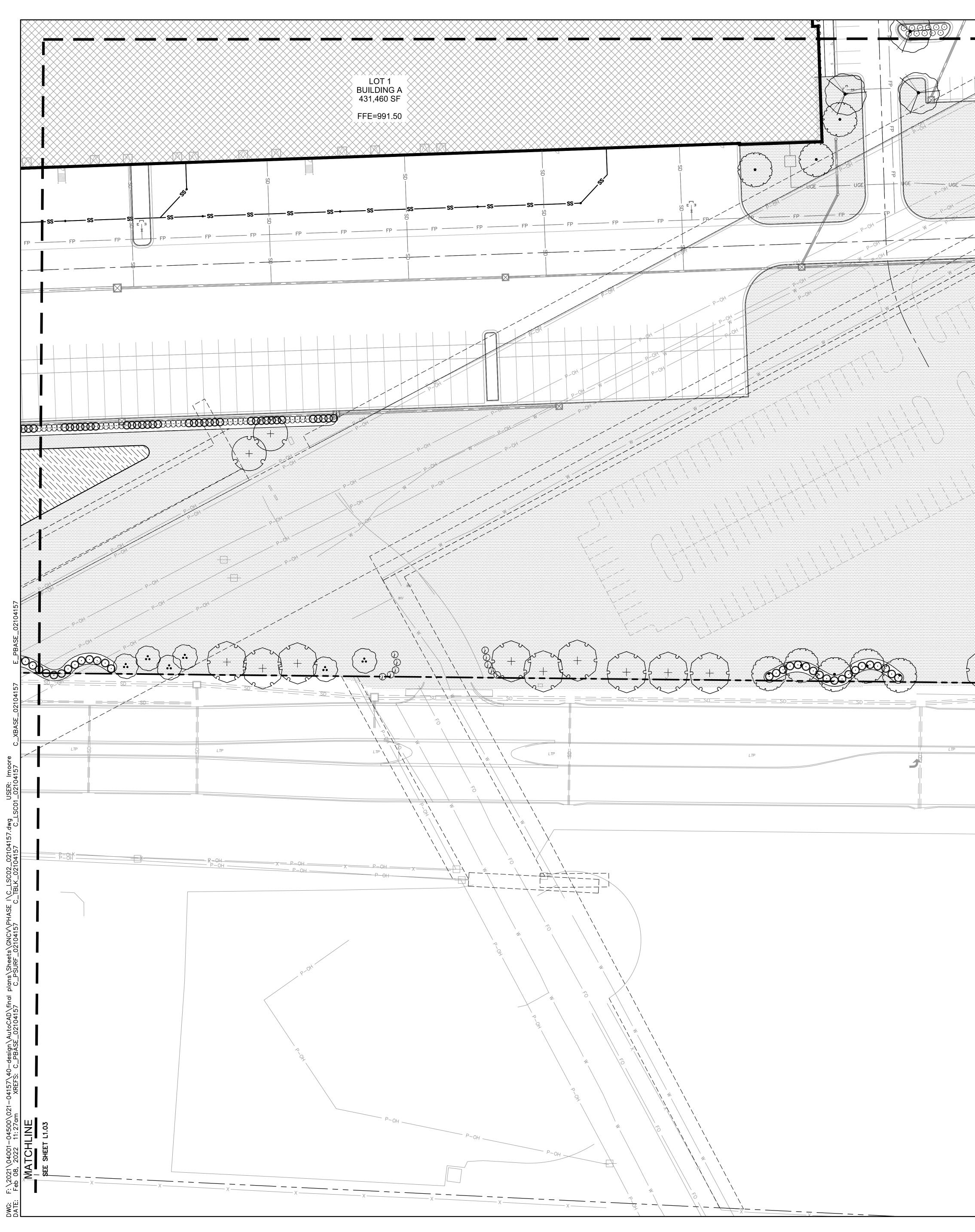




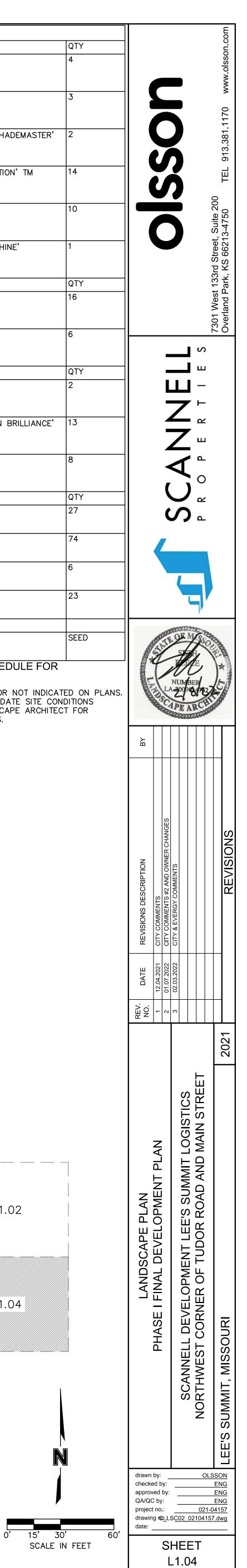
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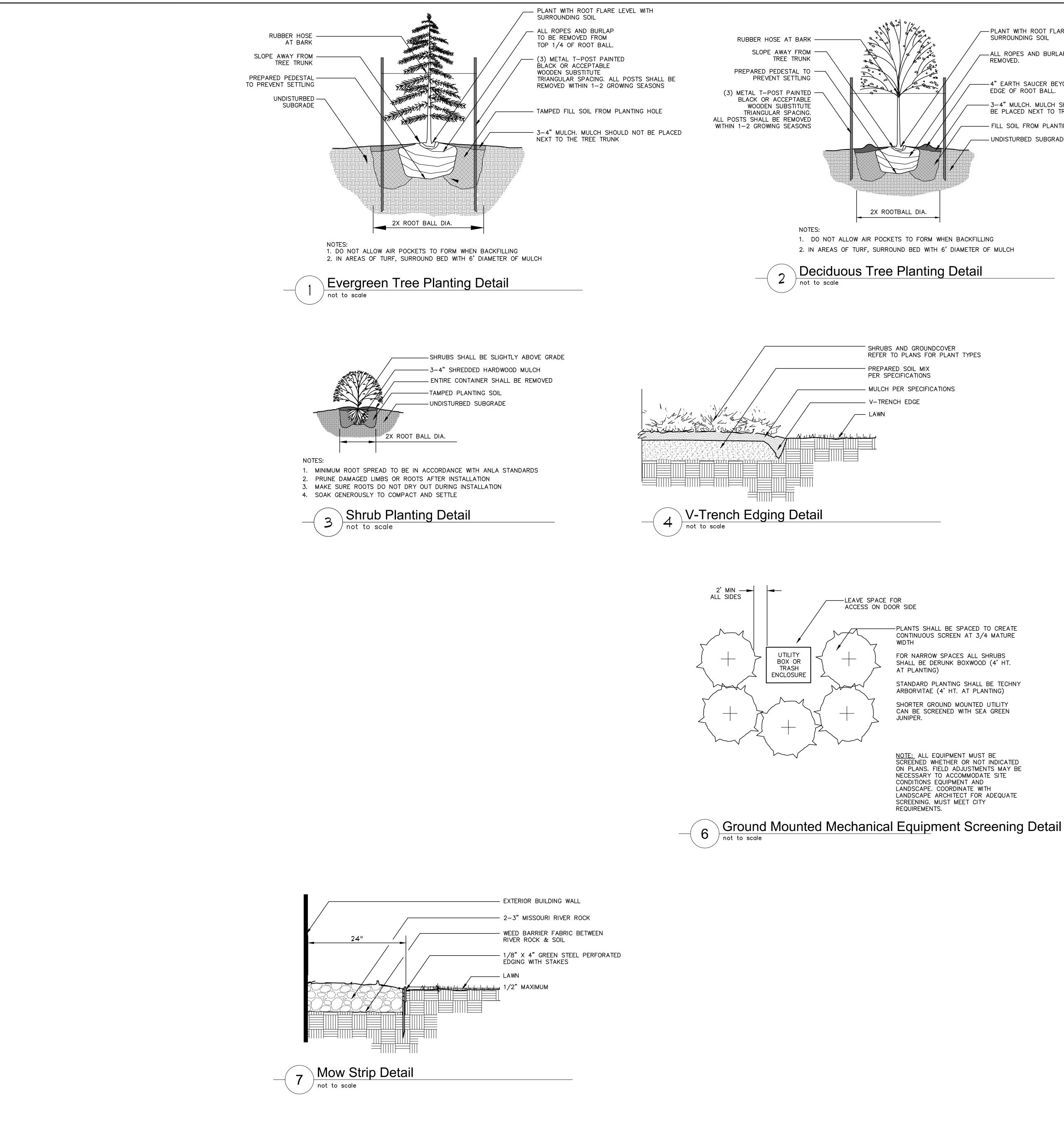
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	300 	MATCH		F	PLANT SCHEDULE	EL1.04 BOTANICAL / COM	
		SEE SEE	Dinc2		(.)	ACER MIYABEI 'STA MIYABEI MAPLE	
P-OH	P-0		8			EUCOMMIA ULMOIDE HARDY RUBBER TR	
						GLEDITSIA TRIACAN SHADEMASTER LOC	ITHOS INERMIS 'SHADE
P-ON P-ON	W					PLATANUS X ACER	RFOLIA 'EXCLAMATION'
e-04		- Char				QUERCUS SHUMARI	DII
UCE UCE UCE						SHUMARD RED OAP	K
						EMERALD SUNSHIN	E ELM
					EVERGREEN TREES	BOTANICAL / COM JUNIPERUS VIRGINI, CANAERTI JUNIPER	ANA 'CANAERTII'
				-		PICEA ABIES NORWAY SPRUCE	
					ORNAMENTAL TREES	BOTANICAL / COM	
	Ę				\odot	ACER TATARICUM ' HOT WINGS TATARI	IAN MAPLE
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	Ę.				SHRUBS	BOTANICAL / COM JUNIPERUS CHINEN GOLD LACE JUNIPE	ISIS 'GOLD LACE'
					\odot	JUNIPERUS CHINEN SEA GREEN JUNIPE	ISIS 'SEA GREEN'
					Sullie Shirt	PANICUM VIRGATUN NORTHWIND SWITCH	
						VIBURNUM LANTAN MOHICAN WAYFARIN	NG TREE
					GROUND COVERS	BOTANICAL / COM FESTUCA TURF TYPE TALL F	
					SIZE AND TOTA	L QUANTITIES.	E PLANT SCHEDU
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	- PLANT WITH ROOT FLARE LEVEL WITH SURROUNDING SOIL		
	– ALL ROPES AND BURLAP SHALL BE REMOVED.		ANTING NO
	– 4" EARTH SAUCER BEYOND EDGE OF ROOT BALL.	2.	LOCATE AND FLAC CONTRACTOR SHA DAMAGE TO SUCH
	– 3–4" MULCH. MULCH SHOULD NOT BE PLACED NEXT TO TREE TRUNK	3.	OWNER. PLANTS AND OTH OF THE CITY AND QUANTITIES TO CO
	– FILL SOIL FROM PLANTING HOLE – UNDISTURBED SUBGRADE	4.	PLAN IS SUBJECT CHANGES OR SUE THE LANDSCAPE
		5.	ALL PLANT MATER THE AMERICAN S & LANDSCAPE AS REPRESENTATIVE SPECIFICATIONS.
		6.	ALL TREES SHALL SPECIFIED CALIPE GRADE.
ETS TO FORM WHEN BACKFILLI DUND BED WITH 6' DIAMETER (		7.	PLANTING OF TRE DURING EITHER TH PLANTING SEASON
Planting Detail		8.	CONTRACTOR SHA INSTALLATION. CC STAKING PRIOR T FIELD CONDITIONS BE APPROVED BY
		9.	THE LANDSCAPE INJURIOUS TO PL/ PLANTING MIX.
		10.	A PRE-EMERGENT INSTALLATION OF
S AND GROUNDCOVER TO PLANS FOR PLANT TYPES RED SOIL MIX		11.	BACKFILL ALL PL/ PLANTING SOIL MI AND TWO (2) PAF COMPONENTS PRI
PER SPECIFICATIONS		12.	ALL LANDSCAPE I MINIMUM OF 3-4'
NCH EDGE		13.	V-TRENCH LANDS SODDED AREAS.
		14.	ALL LANDSCAPE A IRRIGATION SYSTE IRRIGATION SYSTE
		15.	LANDSCAPE CONT UNTIL THE TIME T ACCEPTANCE OF DEFOLIATES (PRIC REPLACED.
		16.	THE CONTRACTOR BEGINNING AT TH PROMPTLY (AS PI
		SC	DDDING NC
		1.	ALL DISTURBED A MINIMUM OF 3 CI
		2.	ALL LAWN AREAS 85% MAXIMUM DE
		3.	THE ENTIRE SURF STONES, ROOTS,
FOR OOR SIDE — PLANTS SHALL BE SPACED 1 CONTINUOUS SCREEN AT 3/4		4.	SOD SHALL BE M ONE INCH (PLUS EXCLUDE TOP GR CUTTING IN THE SOD DAMAGED B BEFORE BEING IN
FOR NARROW SPACES ALL S SHALL BE DERUNK BOXWOOD	HRUBS	5.	
AT PLANTING) STANDARD PLANTING SHALL	BE TECHNY	6.	MOISTEN PREPAR AND ALLOW SURF FERTILIZER IN TH
ARBORVITAE (4' HT. AT PLAI SHORTER GROUND MOUNTED CAN BE SCREENED WITH SEA	UTILITY	7.	OF NITROGEN PEI

### NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.

### OTES

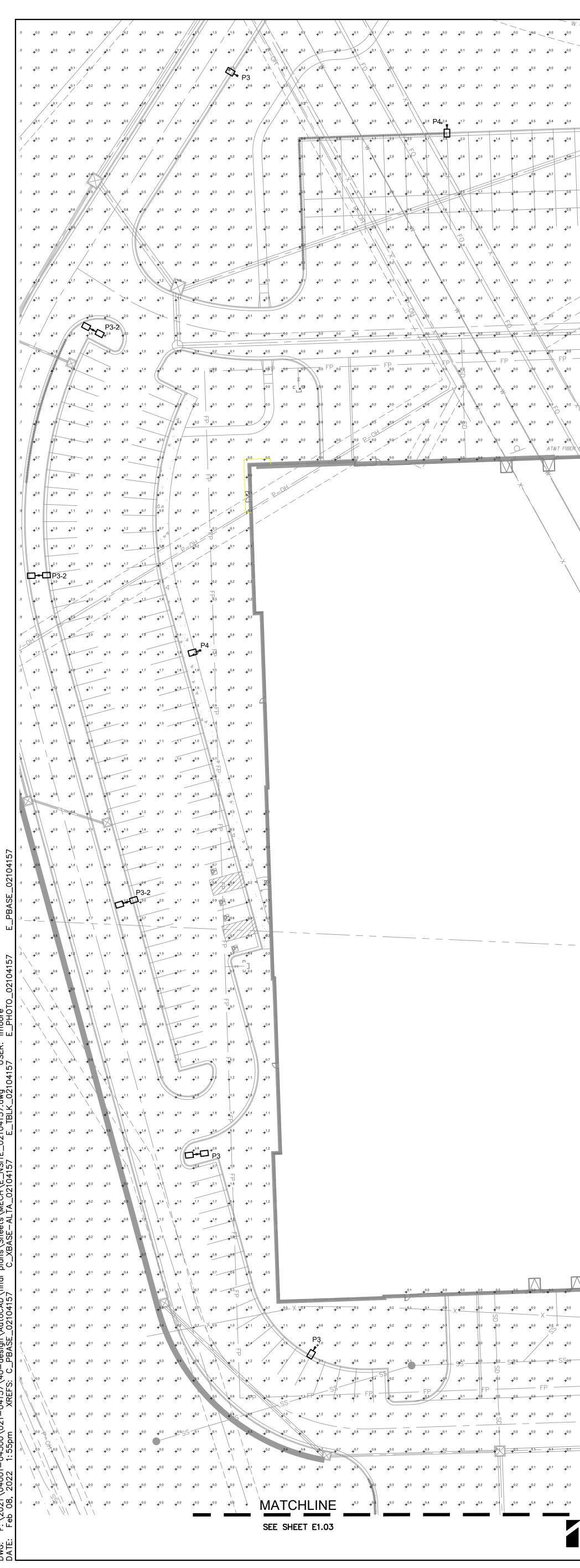
- BE COORDINATED WITH THE WORK OF OTHER TRADES.
- AG ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. ALL PROTECT EXISTING OVERHEAD AND UNDERGROUND UTILITIES CH SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE
- HER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CO D LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIEN COMPLETE THE WORK AS DRAWN.
- TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABI BSTITUTIONS MUST BE APPROVED BY THE CITY OF LEE'S SUMM ARCHITECT.
- ERIAL SHALL BE NURSERY GROWN TO MEET MINIMUM SIZE AS S STANDARD FOR NURSERY STOCK ESTABLISHED BY THE AMERICA SSOCIATION (ANLA). THE LANDSCAPE ARCHITECT OR OWNER'S RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT N
- L BE CALIPERED AND ANY UNDERSIZED TREES SHALL BE REJEC ER MEASUREMENT FOR TREES SHALL BE MEASURED AT 12" ABC
- REES, SHRUBS, SODDED AND SEEDED TURFGRASS SHALL BE CON THE SPRING (MARCH 15–JUNE 15) OR FALL (SEPTEMBER 1 – C ON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
- ALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR ONTRACTOR SHALL HAVE THE LANDSCAPE ARCHITECT APPROVE TO INSTALLATION. FIELD ADJUSTMENTS MAY BE NECESSARY BAS G (I.E. ROOT BALL AND DROP INLET CONFLICT). ALL ADJUSTME THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND ANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKI
- IT HERBICIDE SHALL BE APPLIED TO ALL SHRUB BEDS PRIOR T ANY PLANT MATERIAL.
- _ANTING BEDS TO A MINIMUM 12-INCH DEPTH WITH PLANTING S MIX SHALL CONSIST OF ONE (1) PART PERLITE, ONE (1) PART F ARTS CLEAN LOAM TOPSOIL. THOROUGHLY MIX PLANTING SOIL RIOR TO PLACEMENT.
- PLANTING AREAS, EXCLUDING TURF AREAS SHALL BE MULCHED "SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON DSCAPE EDGING IS TO BE USED ON ALL LANDSCAPE BEDS ABUT
- AREAS SHALL BE IRRIGATED WITH A HIGH-EFFICIENCY, AUTOMA IEM ACHIEVING 100% EVEN COVERAGE OF ALL LANDSCAPE AREA FEM SHALL BE DESIGN-BUILD TO MEET ALL CITY REQUIREMENTS.
- TRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MA THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL AND THE PROJECT HAS TAKEN PLACE. ANY MATERIAL WHICH DIES, OR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVE
- WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF HE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLAC PER DIRECTION OF OWNER).

### OTES

- AREAS SHALL BE SODDED WITH TURF-TYPE TALL FESCUE SOD CULTIVARS.
- S SHALL RECEIVE A MINIMUM 6-INCH DEPTH OF TOPSOIL COMP ENSITY AT OPTIMUM MOISTURE CONTENT.
- RFACE TO BE SODDED SHALL BE REASONABLY SMOOTH AND FRE OR OTHER DEBRIS.
- MACHINE STRIPPED AT A UNIFORM SOIL THICKNESS OF APPROX S OR MINUS 1/4-INCH). THE MEASUREMENT FOR THICKNESS SH ROWTH AND THATCH, AND SHALL BE DETERMINED AT THE TIME FIELD. PRECAUTIONS SHALL BE TAKEN TO PREVENT DRYING AN BY HEAT AND DRY CONDITIONS, AND SOD CUT MORE THAN 18 | NCORPORATED INTO THE WORK SHALL NOT BE USED.
- OD SHALL BE DONE IN A MANNER THAT WILL PREVENT TEARING HER DAMAGE. PROTECT EXPOSED ROOTS FROM DEHYDRATION. [ SOD THAN CAN BE LAID WITHIN 24 HOURS.
- RED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THO RFACE TO DRY BEFORE INSTALLING SOD. FERTILIZE, HARROW OR HE TOP 1-1/2-INCHES OF TOPSOIL, AT A UNIFORM RATE OF OI ER 1000 S.F.
- CAREFULLY PLACED IN THE DIRECTION PARALLEL WITH THE SLO AREA TO BE SODDED. SOD STRIPS SHALL BE BUTTED TOGETHER BUT NOT OVE WITH THE SEAMS STAGGERED ON EACH ROW.
- 8. FERTILIZER SHALL BE 20-10-5 COMMERCIAL FERTILIZER OF THE GRADE, TYPE, SPECIFIED AND SHALL COMPLY WITH THE RULES OF THE STATE OF MISSOURI D AGRICULTURE. FERTILIZER SHALL BE IDENTIFIED ACCORDING TO THE PERCENT THAT ORDER.
- 9. ALL SOD ON SLOPES GREATER THAN 5:1 AND WITHIN DETENTION AREAS SHALL STAKED.
- 10. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DU WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MOIST SOIL TO A MINIMUM DEPTH OF FOUR INCHES BELOW SOD.
- 11. CONTRACTOR SHALL PROVIDE FULL MAINTENANCE FOR SODDED TURF GRASS FO OF 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TUR ESTABLISHED. THE TURF GRASS SHALL BE FREE OF WEEDS, OPEN JOINTS, BAI AND SURFACE IRREGULARITIES.

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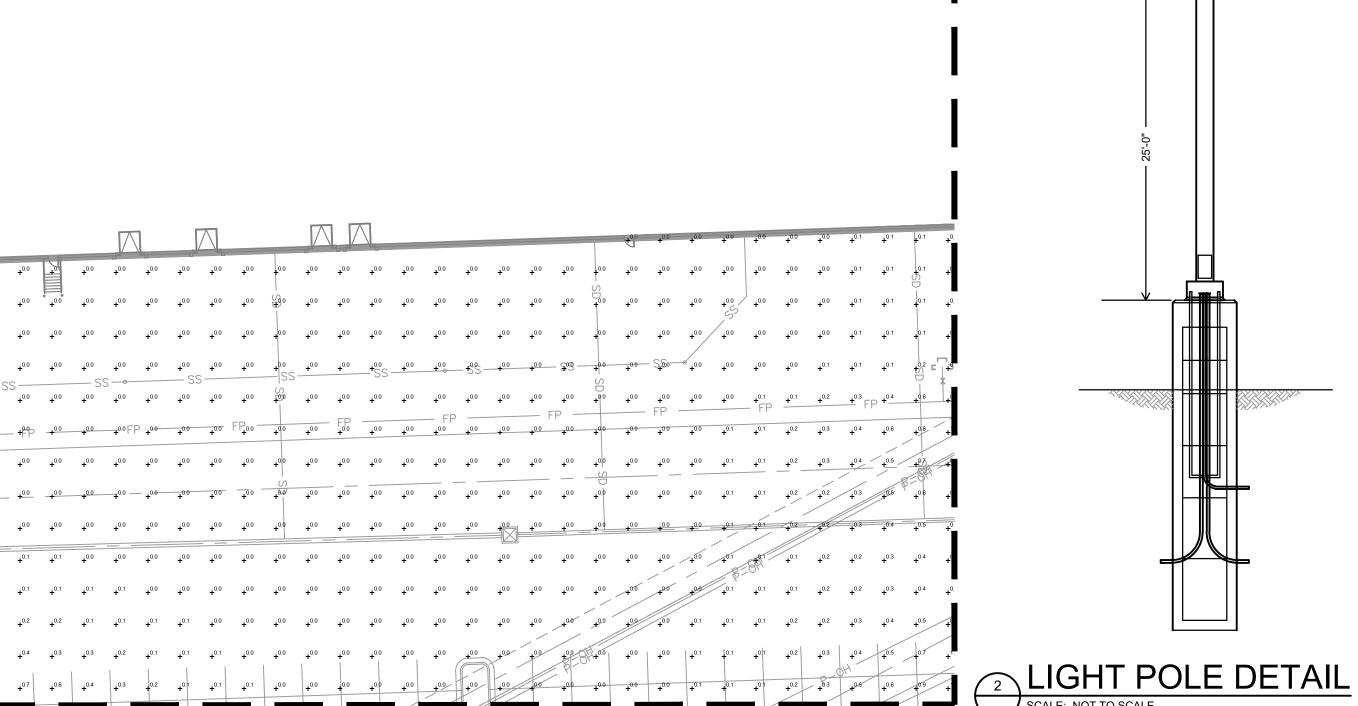
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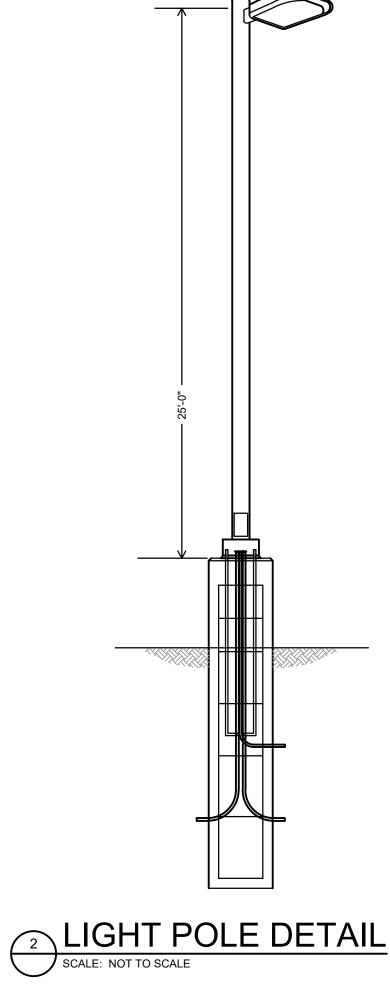


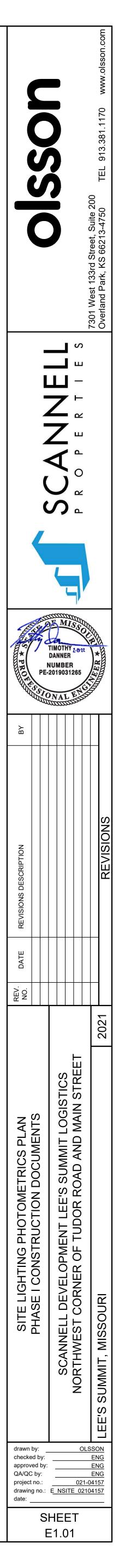
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AT&T FIRER NOEL

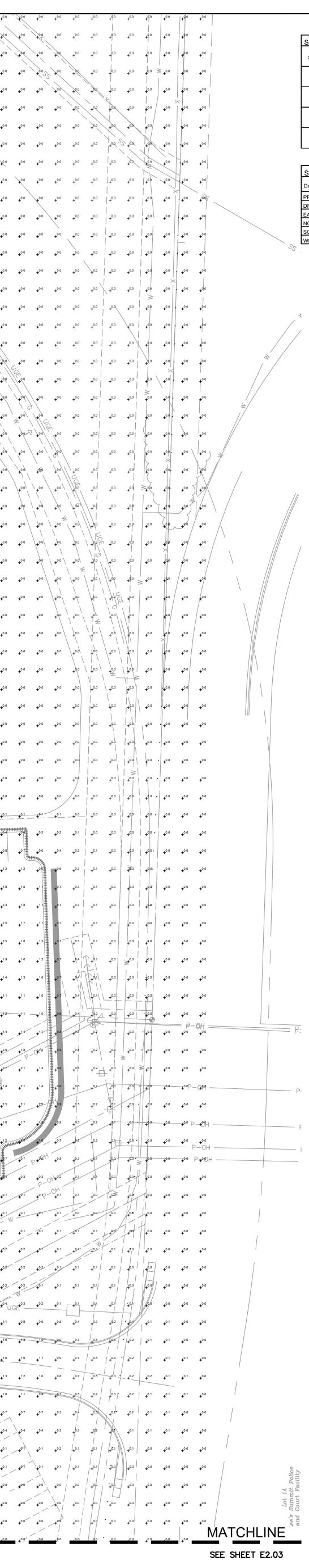
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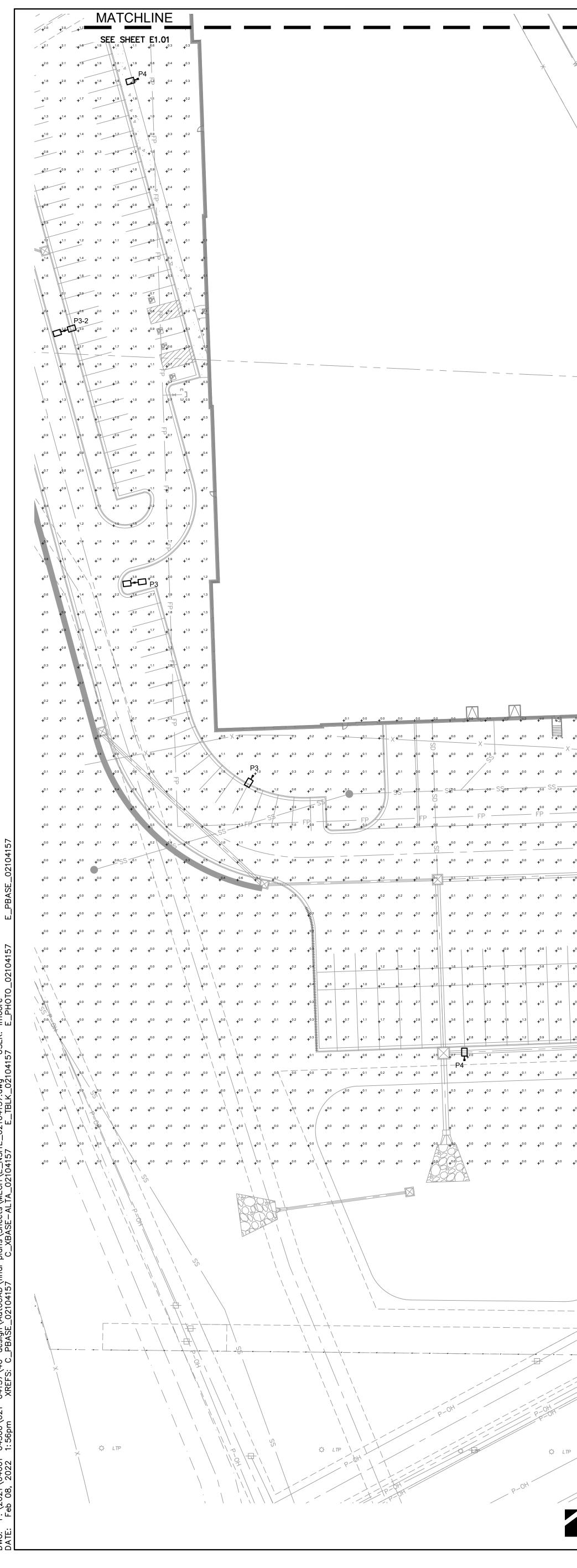
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	SITE LIGHTING PHOTOMETRICS PLAN



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Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
Ţ	P4	11	Lithonia Lighting	DSX1 LED P8 40K T4M MVOLT HS	DSX1 LED P8 40K T4M MVOLT with houseside shield	1	18424	0.9	207
р П	P3-2	8	Lithonia Lighting	DSX1 LED P3 40K T3M MVOLT	DSX1 LED P3 40K T3M MVOLT	1	12214	0.9	204
Ģ	P5	2	Lithonia Lighting	DSX1 LED P3 40K T5S MVOLT	DSX1 LED P3 40K T5S MVOLT	1	13088	0.9	102
Ţ	P3	7	Lithonia Lighting	DSX1 LED P3 40K T3M MVOLT	DSX1 LED P3 40K T3M MVOLT	1	12214	0.9	102

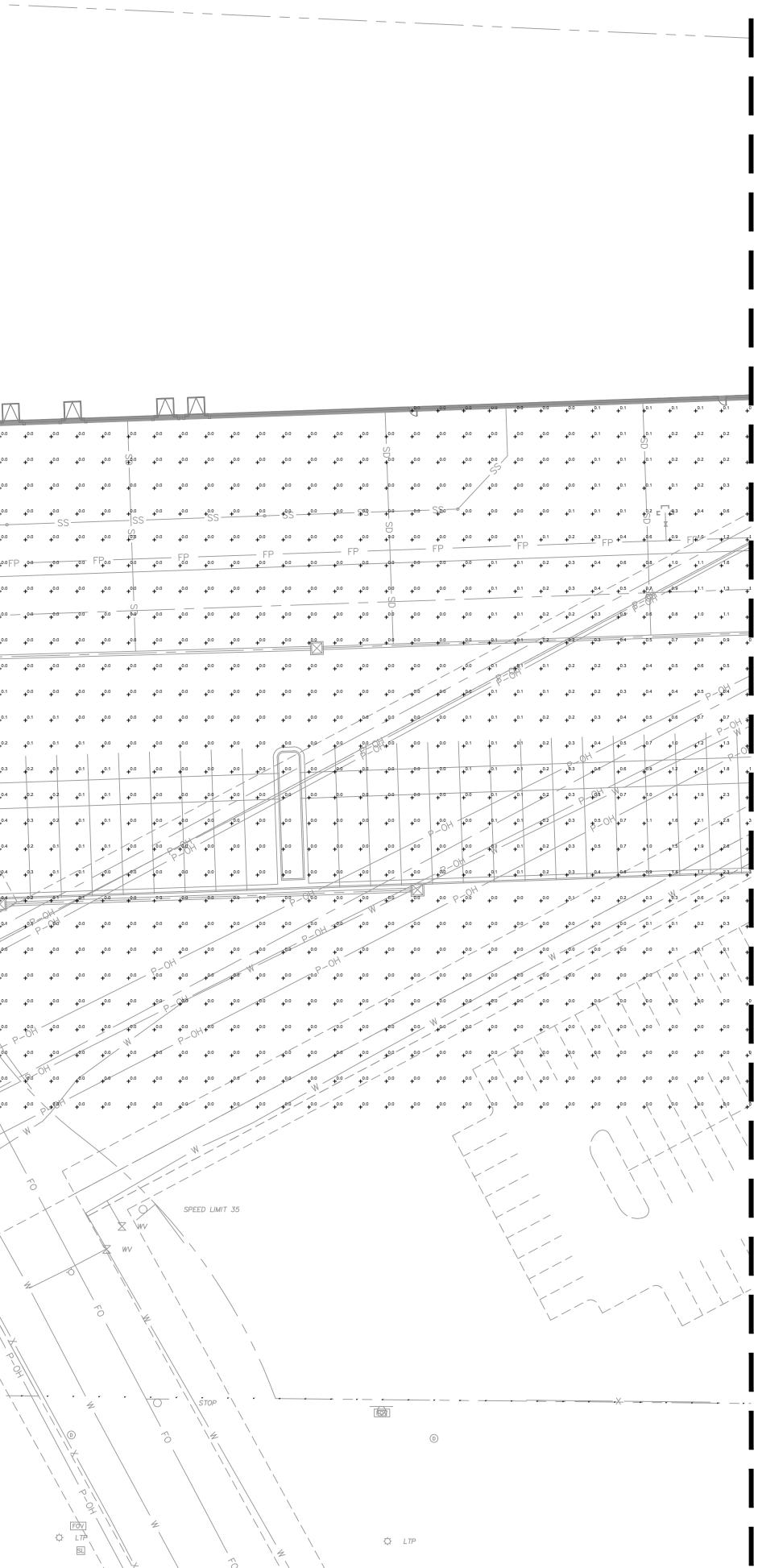
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Mir
PROPERTY LINE	+	0.0 fc	0.3 fc	0.0 fc	N/A	N/A
DRIVE	Ж	0.4 fc	4.1 fc	0.3 fc	11.0:1	3.7:1
EAST PARKING	Ж	1.2 fc	3.9 fc	0.3 fc	13.0:1	4.0:1
NORTH PARKING	Ж	1.5 fc	4.1 fc	0.3 fc	13.7:1	5.0:1
SOUTH PARKING	Ж	1.1 fc	2.9 fc	0.0 fc	N/A	N/A
WEST PARKING	Ж	1.3 fc	3.0 fc	0.3 fc	10.0:1	4.3:1

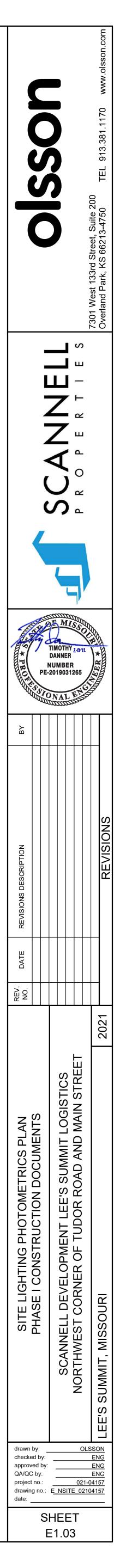
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SITE LIGHTING PHOTOMETRICS PLAN	PHASE I CONSTRUCTION DOCUMENTS		SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS	NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET			LEE'S SUMMIT, MISSOURI
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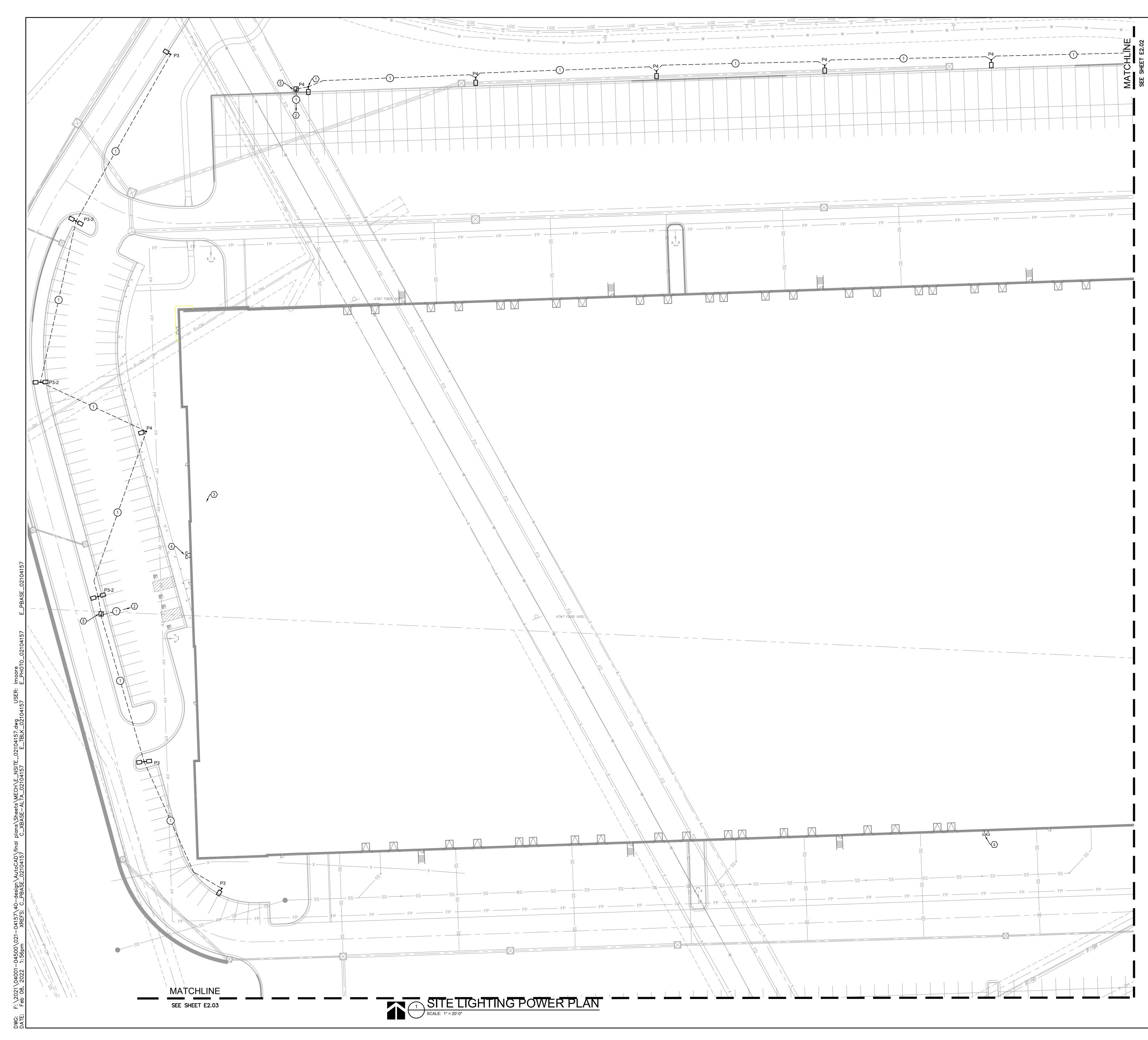


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1 SITE LIGHTING PHOTOMETRICS PLAN SCALE: 1" = 20'-0"	

AATCHLINE SEE SHEET C4.02







## GENERAL NOTES

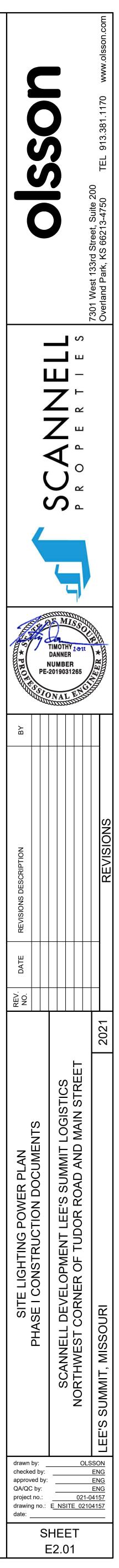
- A. TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- B. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
  - C. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
  - D. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.

## ○ SHEET KEYNOTES

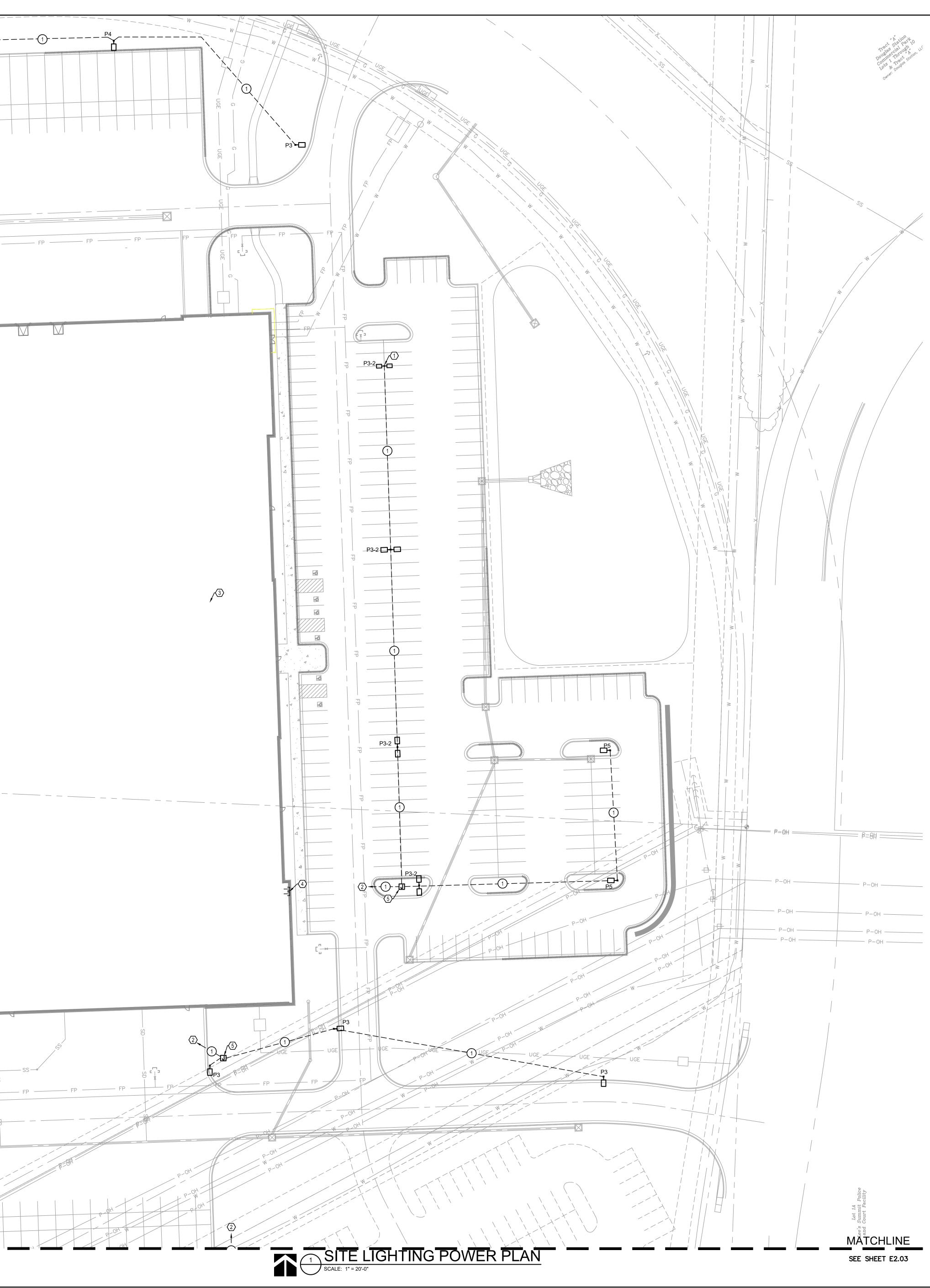
- 1. AREA LED LIGHT FIXTURE ON POLE WITH CONCRETE BASE. REFER TO LIGHT FIXTURE SCHEDULE AND LIGHT POLE BASE DETAIL FOR ADDITIONAL INFORMATION. (TYP.)
- 2. ROUTE LIGHTING HOMERUN PANEL TO 20A/1P CIRCUIT BREAKER TO PANELBOARD IN BUILDING.
- 3. APPROXIMATE LOCATION OF PANELBOARD FOR NEW LIGHTING CIRCUITS. REFER TO BUILDING INTERIOR PLANS FOR EXACT LOCATION AND CONTROL SCHEME. EXTERIOR LIGHTING CIRCUITS TO BE CONTROLLED BY TIME CLOCK/PHOTOCELL.
- 4. REFER TO BUILDING INTERIOR PLANS FOR ROUTING LIGHTING CIRCUITS IN BUILDING.
- 5. IN GRADE JUNCTION BOX. REFER TO JUNCTION BOX DETAILS FOR ADDITIONAL INFORMATION. DETERMINE EXACT LOCATION AND QUANTITY FOR ROUTING NEW LIGHTING CIRCUITS.

### **O SHEET KEYNOTES**

1. (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT.



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## GENERAL NOTES

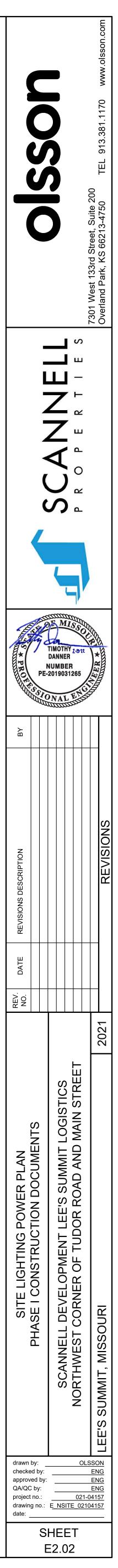
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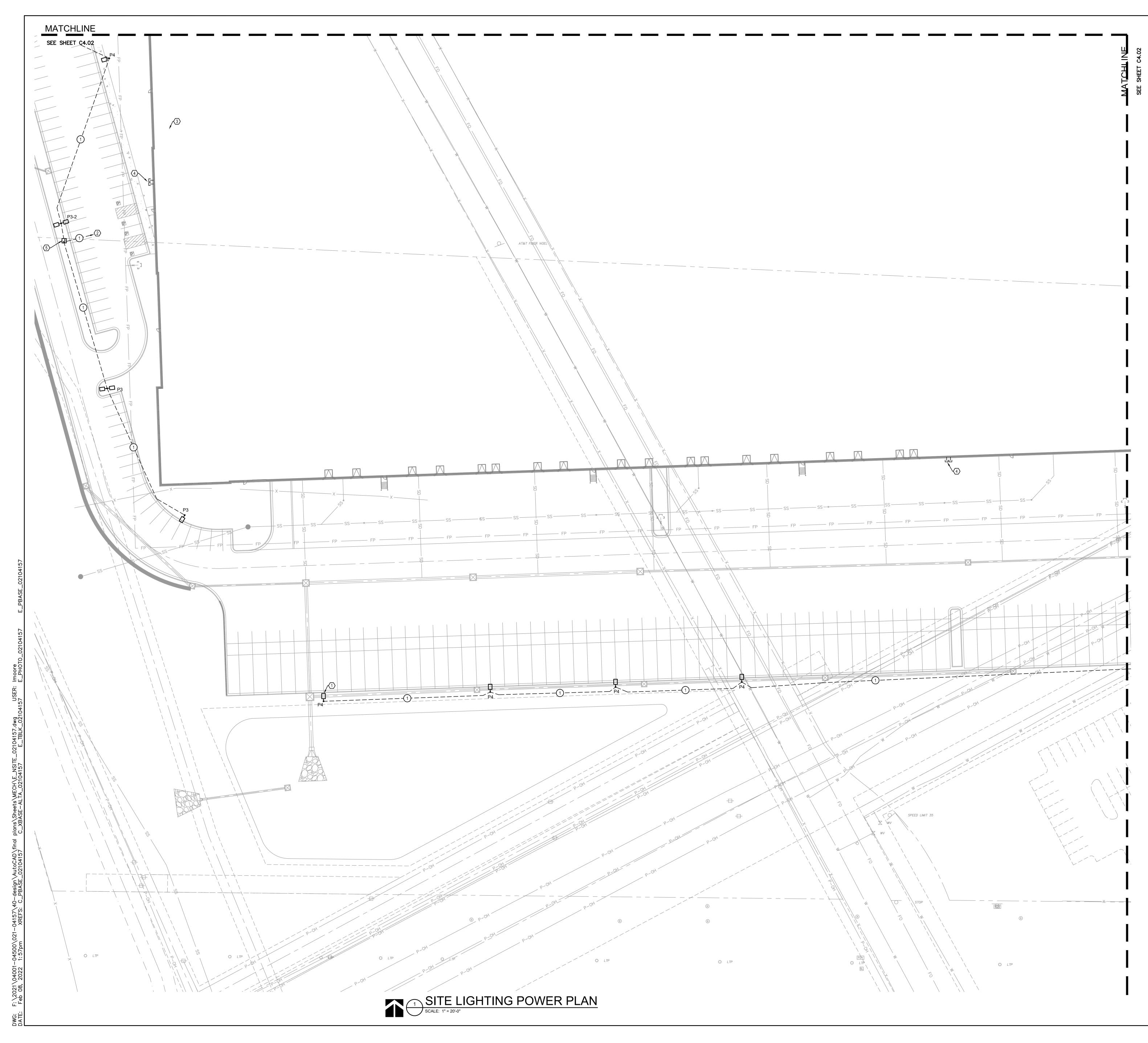
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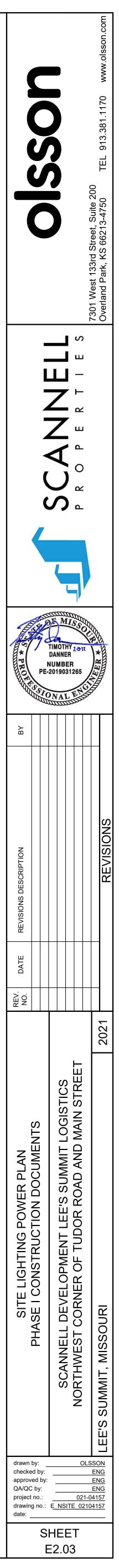
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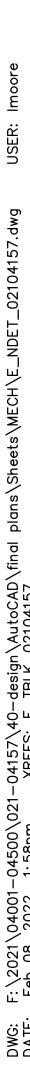
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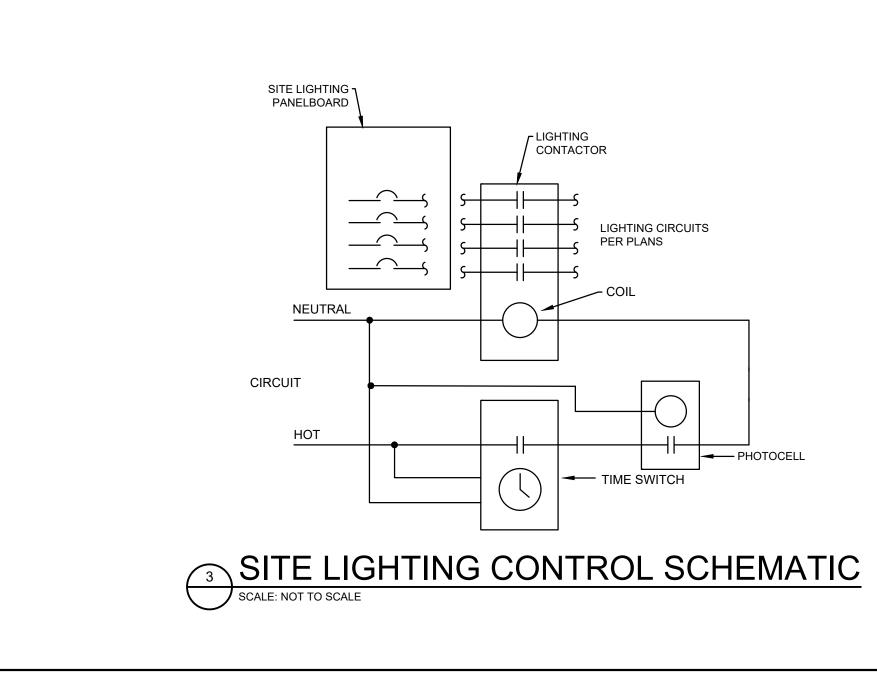
### ○ SHEET KEYNOTES

1. (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT.

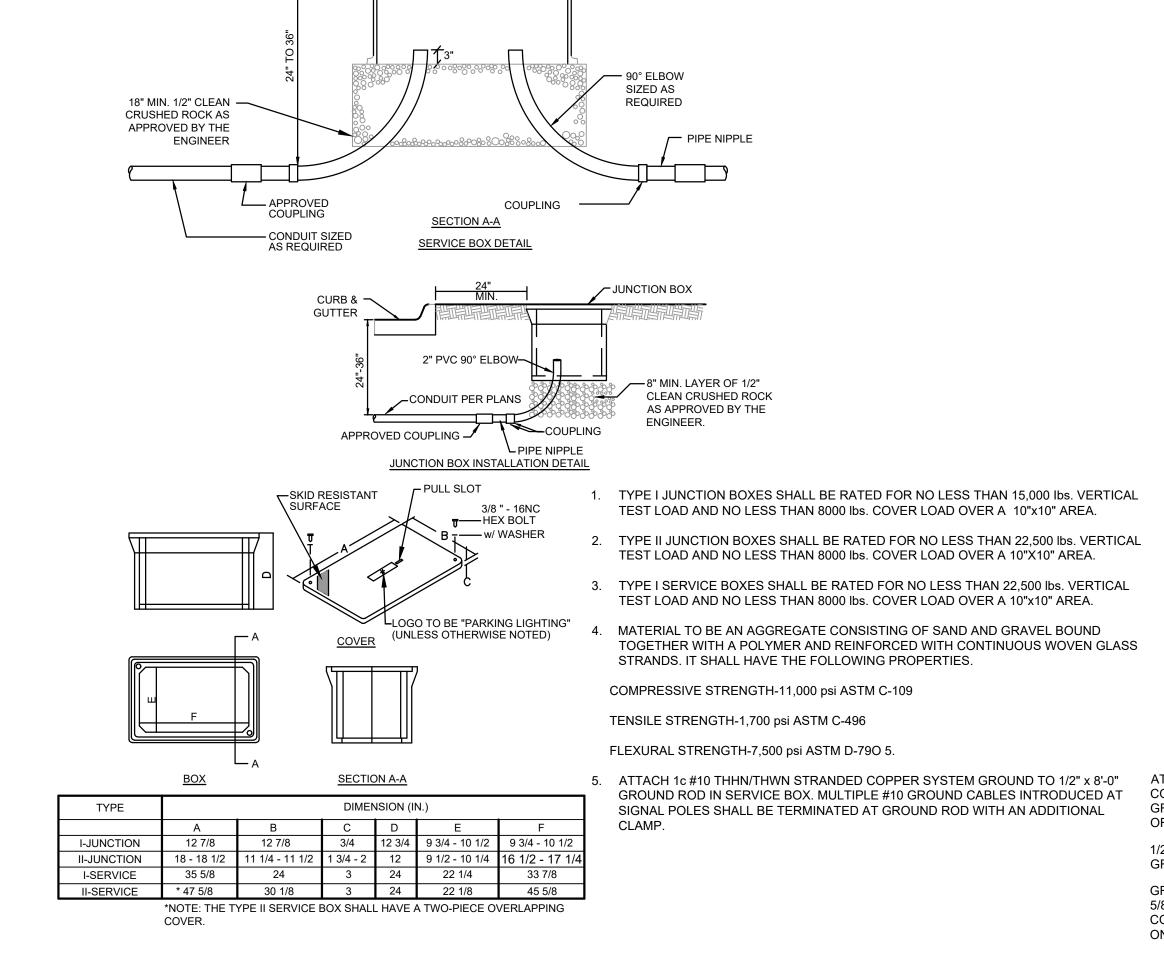
B. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND



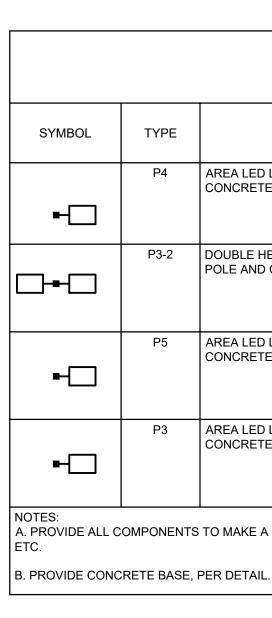




# FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS SCALE: NOT TO SCALE



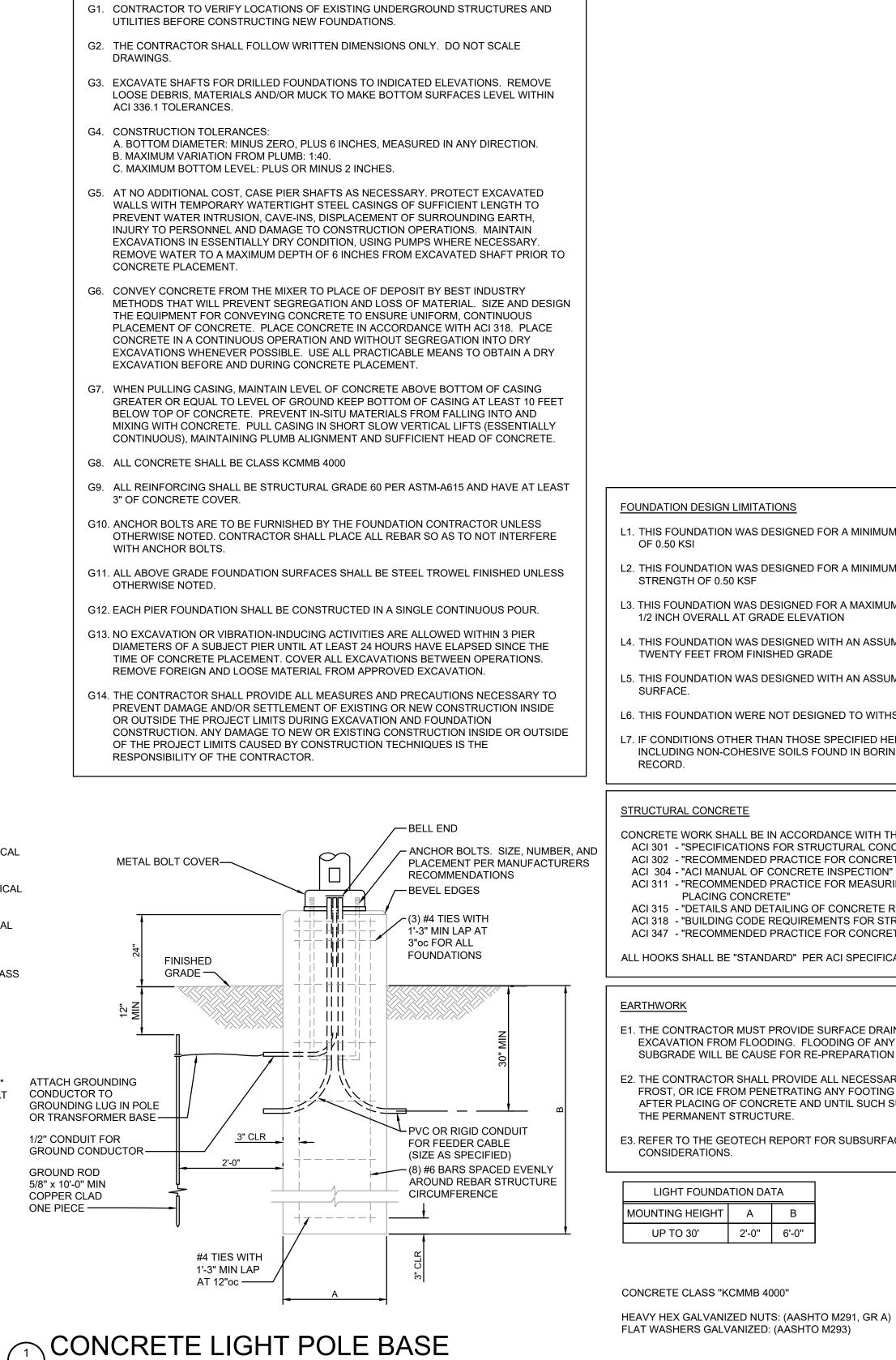
PLAN





	1							
TYPE	DESCRIPTION	MANUFACTURER AND MODEL	LAMPS	LUMENS	COLOR TEMP / CRI	DRIVER / BALLAST	VOLTAGE / WATTAGE	LOCATION
P4	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P8-40K-T4M-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	24,000	4000K / 80	0-10V DIMMING	MVOLT 207	PARKING LOT
P3-2	DOUBLE HEAD AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T3M-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM28AS-DBLXD	LED	12,500	4000K / 80	0-10V DIMMING	MVOLT 204	PARKING LOT
P5	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T5S-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	13,000	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT
P3	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T3M-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	12,500	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT

GENERAL NOTES

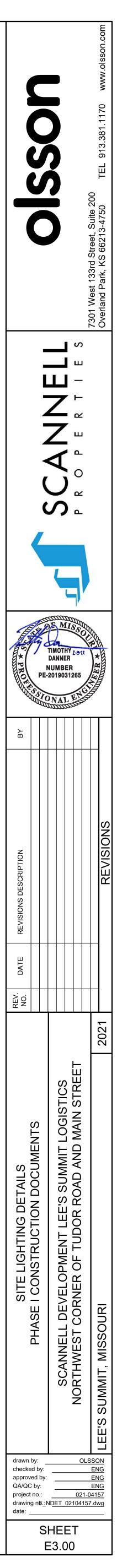


L1. THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL DEFORMATION MODULUS OF 0.50 KSI
L2. THIS FOUNDATION WAS DESIGNED FOR A MINIMUM LATERAL SOIL UNDRAINED SHEAR STRENGTH OF 0.50 KSF
L3. THIS FOUNDATION WAS DESIGNED FOR A MAXIMUM ALLOWABLE LATERAL DEFLECTION OF 1/2 INCH OVERALL AT GRADE ELEVATION
L4. THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED DEPTH TO ROCK GREATER THAN TWENTY FEET FROM FINISHED GRADE
L5. THIS FOUNDATION WAS DESIGNED WITH AN ASSUMED WATER TABLE LOCATED AT THE SOIL SURFACE.
L6. THIS FOUNDATION WERE NOT DESIGNED TO WITHSTAND THE EFFECTS OF SCOURING.
L7. IF CONDITIONS OTHER THAN THOSE SPECIFIED HEREIN ARE PRESENT AT THE SITE, INCLUDING NON-COHESIVE SOILS FOUND IN BORINGS, PLEASE CONTACT THE ENGINEER OF RECORD.
STRUCTURAL CONCRETE
CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF: ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION" ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
ALL HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS.
EARTHWORK
E1. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION OF THE SUBGRADE.
E2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT STRUCTURE.
E3. REFER TO THE GEOTECH REPORT FOR SUBSURFACE CONDITIONS AND CONSTRUCTION CONSIDERATIONS.
LIGHT FOUNDATION DATA

MOUNTING HEIGHT A B

2'-0" 6'-0"

UP TO 30'



## SECTION 260000 ELECTRICAL

1. GENERAL CONDITIONS:

A. THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.

- B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITION NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AN SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUC WORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST T
- D. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.
- E. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- F. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.
- G. ALL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING CONDITION.
- H. INCLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. .
- REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR Ι. REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING
- AGENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS. PROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND
- APPROVAL BY ENFORCEMENT AUTHORITIES. K. FURNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION,
- L. INSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN PLACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND MAKE READY FOR OWNER'S USE.
- M. PROVIDE: TO FURNISH AND INSTALL.

- N. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
- O. THE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, BEFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER
- P. REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING. INSTALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL CONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
- Q. PROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, MISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THE HAVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTE OTHERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTAN OF THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE BUILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER RESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPI
- R. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIL PROJECT BY THE OWNER.
- S. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABC THE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALE DAILY. CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY IDENTIFICATION.
- T. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND OWNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMI TO THE ENGINEER AND OWNER FOR REVIEW.
- U. TEST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY CONSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST IS NOT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHAL BE REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE WRITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINE
- V. FULLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATIO OF EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROV INSTRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED PERSONNEL.
- W. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.
- X. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT INDICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTE A FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF TH PROJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO ANY SHOP DRAWING SUBMITTAL REVIEW.
- Y. THIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS A RESPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT MANUAL.

2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

A.	ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL
	ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES,
	THE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL
	APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND
	CODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED
	HEREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE
	POINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.

3. SCOPE OF WORK:

A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY

	DRAWINGS AND HEREIN DESCRIBED.
THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.	<ul> <li>B. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.</li> <li>4. MATERIALS AND FOURIENT REVIEW:</li> </ul>
THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND	4. MATERIALS AND EQUIPMENT REVIEW:
TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.	A. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL SUBMIT FOR REVIEW SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL HIGHLIGHT THE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES.
COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS IECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND	<ul> <li>B. ALL PORTIONS OF THE SHOP DRAWINGS THAT ARE INTENDED TO BE REVIEWED SHALL BE HIGHLIGHTED. ANY PORTION NOT CALLED OUT SHALL BE ASSUMED TO BE EXCLUDED FROM THE JOB.</li> </ul>
INISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH VORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS IAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.	5. GUARANTEE: A. THIS CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND
HE OWNER. HIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT SE SCALED TO DETERMINE DIMENSIONS.	THAT THE APPARATUS FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE INSTALLATION WHICH PROVES OR BECOMES
PECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS ALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.	DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED.
URNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS HOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.	A. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, MECHANICAL, STRUCTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT, AND IT
LL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING ONDITION.	SHALL BE HIS RESPONSIBILITY TO COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES.
ICLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY OR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT PECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS	7. AS-BUILT DRAWINGS: A. THIS CONTRACTOR SHALL PREPARE COMPLETE AS-BUILT DRAWINGS OF ALL
EQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR EGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING	ELECTRICAL SYSTEMS AND TURN OVER TO THE ENGINEER REVISED ELECTRONIC CAD FILES.
GENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS. ROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND PPROVAL BY ENFORCEMENT AUTHORITIES.	B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT TO BE INSTALLED ON THIS PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE
URNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, ELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION,	INSTRUCTIONS. 8. EXCAVATION:
INLOAD AND UNPACK, AND GUARANTEE. NSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN LACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND	A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
AKE READY FOR OWNER'S USE. ROVIDE: TO FURNISH AND INSTALL.	B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT AND THE ESTABLISHMENT OF ALL LINES AND LEVELS REQUIRED FOR THE EXECUTION OF THE WORK.
ROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. ROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE /EATHER.	C. WHEN SERVICES ARE TO BE RUN SIDE-BY- SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION
HE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR ORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.	BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK.
EFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING, STALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL ONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S ECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.	D. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHEF UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY
ROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, ISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THEY AVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTED THERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTANCE	ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER. 9. EXTERIOR AND FOUNDATION WALLS:
F THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE UILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION F THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER ESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIED ORTION.	A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW FOR CAULKING MATERIAL. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS. ALL SLEEVES SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER
ONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL QUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIRE ROJECT BY THE OWNER.	PRIOR TO INSTALLATION. 10.FLOORS:
EEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR UBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE UBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABOUT HE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALENT	A. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 2 INCHES ABOVE FLOOR.
AILY. CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY DENTIFICATION.	11. CUTTING: A. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE
PERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO ERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND WNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMIT	INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING". 12.PATCHING:
D THE ENGINEER AND OWNER FOR REVIEW. EST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY	A. ON CONCRETE, PATCH THE OPENING WITH CONCRETE, FINISHED SMOOTH WITH ADJACENT SURFACES.
ONSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE IOST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING SSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST IS	13.IDENTIFICATION OF SWITCHES AND APPARATUS:
TACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHALL REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE RITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINEER.	A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF
JLLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION F EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROVIDE STRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED	ENGRAVED PLASTIC PLATES BLACK WITH WHITE LETTERS. 14. GROUNDING:
ERSONNEL. ONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER ANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.	<ul> <li>A. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN GROUND WIRES.</li> <li>B. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE</li> </ul>
ONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT DICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.	REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.
FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF THE OJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO BY SHOP DRAWING SUBMITTAL REVIEW.	<ul> <li>15. CONDUIT:</li> <li>A. ALL ELECTRICAL POWER WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL</li> <li>BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING</li> </ul>
IIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS AND SPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT ANUAL.	OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED. B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 AS MANUFACTURED BY CARLON OR APPROVED EQUAL. ALL CONDUITS SHALL BE INSTALLED WITH
TIONS, ORDINANCES, STATUTES AND CODES:	MINIMUM 36" INCH COVER. C. CONDUIT INSTALLED ABOVE GROUND EXTERIOR SHALL BE GALVANIZED RIGI
LL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL LECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES, HE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL PPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND ODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED EREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE	C. CONDUIT INSTALLED ABOVE GROUND EXTERIOR SHALL BE GALVANIZED RIGH STEEL AS MANUFACTURED BY THE ALLIED TUBE AND CONDUIT CORPORATION OR APPROVED EQUAL. CONDUIT SHALL BE SHERARDIZED OR HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
OINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.	D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE
WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE ALL SYSTEMS OPERATIONAL AS SHOWN ON THE	<ul><li>FLOOR.</li><li>E. THIN WALL TUBING SHALL BE REPUBLIC "ELECTRUNITE E.M.T." OR APPROVED EQUAL. SHALL BE INSTALLED INDOORS.</li></ul>

F.	ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE A
	WATERTIGHT.

- G. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED.
- H. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYS- TEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING.
- CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; PLUG AND KEEP CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED.
- J. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILD- ING LINES.
- 18. WIRE AND CABLE:
  - A. WIRE AND CABLE SHALL BE AMERICAN INSULATED WIRE CORP., GENERAL CABLE CORP., SENATOR WIRE AND CABLE CORP. SOUTHWIRE OR APPROVED EQUAL, OF SIZES AS SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.
  - B. ALL CONDUCTORS SHALL BE COPPER. C. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH INSULATION AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE

RATED FOR 90 DEGREES C. APPLICATION.

### AND SHALL BE

THHN/THWN INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION

