

100% PLANS FOR SANITARY SEWER MAIN CONSTRUCTION

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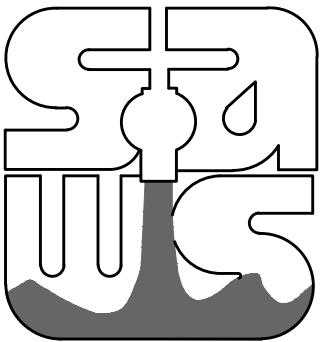
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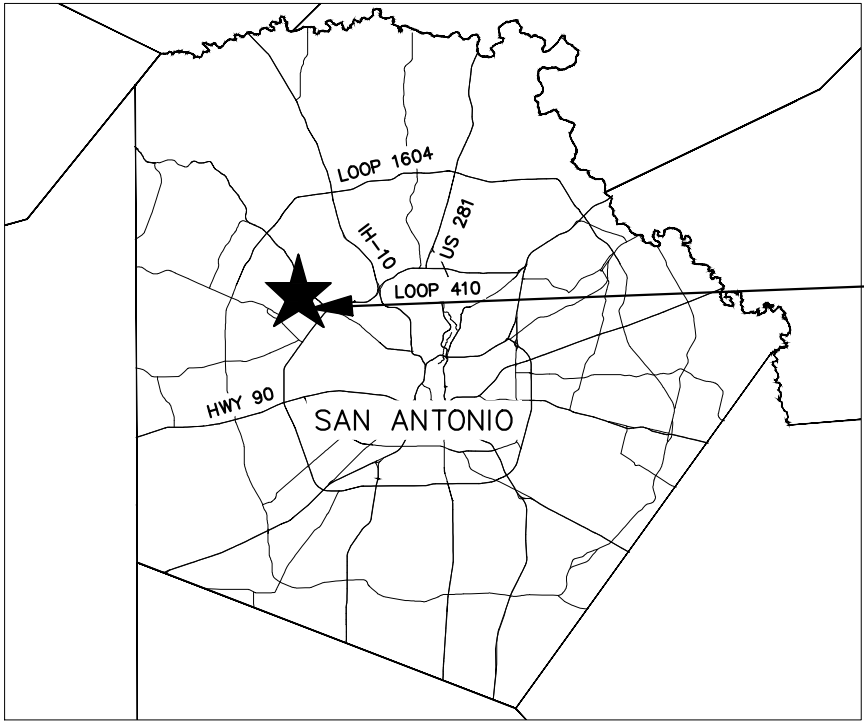
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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

W-9: UPPER LEON CREEK SEWER CAPACITY STORAGE AND RELIEF, CULEBRA CREEK TO WHITBY ROAD PROJECT

JOB No. 22-4501

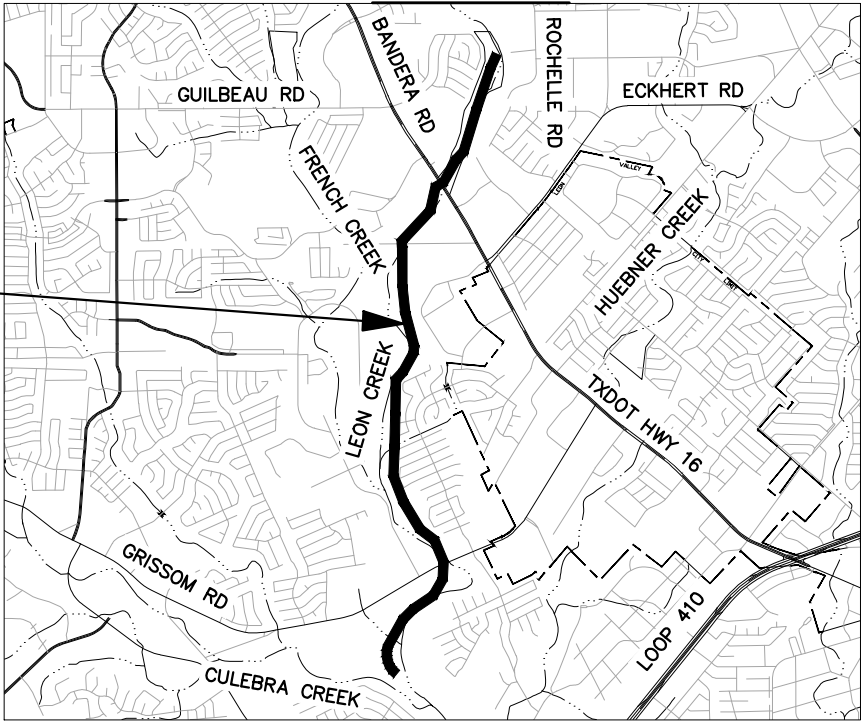
SOLICITATION No. CO-00699

JANUARY 2024



VICINITY MAP
N.T.S.

PROJECT
LIMITS



LOCATION MAP
N.T.S.

GENERAL

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TP1-TP30A SHOULD BE PRINTED IN COLOR IF VIEWING HARD
COPIES OF THE PLANS

C1	SEWER MAIN PLAN & PROFILE BEGIN TO STA. 9+50.00
C2	SEWER MAIN PLAN & PROFILE STA. 9+50.00 TO STA. 13+50.00
C3	SEWER MAIN PLAN & PROFILE STA. 13+50.00 TO STA. 17+50.00
C4	SEWER MAIN PLAN & PROFILE STA. 17+50.00 TO STA. 21+50.00
C5	SEWER MAIN PLAN & PROFILE STA. 21+50.00 TO STA. 25+50.00
C6	SEWER MAIN PLAN & PROFILE STA. 25+50.00 TO STA. 30+00.00
C7	SEWER MAIN PLAN & PROFILE STA. 30+00.00 TO STA. 34+00.00
C8	SEWER MAIN PLAN & PROFILE STA. 34+00.00 TO STA. 38+00.00
C9	SEWER MAIN PLAN & PROFILE STA. 38+00.00 TO STA. 42+00.00
C10	SEWER MAIN PLAN & PROFILE STA. 42+00.00 TO STA. 46+00.00
C11	SEWER MAIN PLAN & PROFILE STA. 46+00.00 TO STA. 50+05.00
C12	SEWER MAIN PLAN & PROFILE STA. 50+05.00 TO STA. 54+00.00
C13	SEWER MAIN PLAN & PROFILE STA. 54+00.00 TO STA. 58+00.00
C14	SEWER MAIN PLAN & PROFILE STA. 58+00.00 TO STA. 62+00.00
C15	SEWER MAIN PLAN & PROFILE STA. 62+00.00 TO STA. 66+00.00
C16	SEWER MAIN PLAN & PROFILE STA. 66+00.00 TO STA. 70+00.00
C17	SEWER MAIN PLAN & PROFILE STA. 70+00.00 TO STA. 74+00.00
C18	SEWER MAIN PLAN & PROFILE STA. 74+00.00 TO STA. 78+00.00
C19	SEWER MAIN PLAN & PROFILE STA. 78+00.00 TO STA. 82+00.00
C20	SEWER MAIN PLAN & PROFILE STA. 82+00.00 TO STA. 86+00.00
C21	SEWER MAIN PLAN & PROFILE STA. 86+00.00 TO STA. 90+00.00
C22	SEWER MAIN PLAN & PROFILE STA. 90+00.00 TO STA. 94+00.00
C23	SEWER MAIN PLAN & PROFILE STA. 94+00.00 TO STA. 98+00.00
C24	SEWER MAIN PLAN & PROFILE STA. 98+00.00 TO STA. 102+00.00
C25	SEWER MAIN PLAN & PROFILE STA. 102+00.00 TO STA. 106+00.00
C26	SEWER MAIN PLAN & PROFILE STA. 106+00.00 TO STA. 110+00.00
C27	SEWER MAIN PLAN & PROFILE STA. 110+00.00 TO STA. 114+00.00
C28	SEWER MAIN PLAN & PROFILE STA. 114+00.00 TO STA. 118+00.00
C29	SEWER MAIN PLAN & PROFILE STA. 118+00.00 TO STA. 122+00.00
C30	SEWER MAIN PLAN & PROFILE STA. 122+00.00 TO STA. 126+00.00
C31	SEWER MAIN PLAN & PROFILE STA. 126+00.00 TO STA. 130+00.00
C32	SEWER MAIN PLAN & PROFILE STA. 130+00.00 TO STA. 134+00.00
C33	SEWER MAIN PLAN & PROFILE STA. 134+00.00 TO STA. 138+00.00
C34	SEWER MAIN PLAN & PROFILE STA. 138+00.00 TO STA. 142+00.00
C35	SEWER MAIN PLAN & PROFILE STA. 142+00.00 TO STA. 146+00.00
C36	SEWER MAIN PLAN & PROFILE STA. 146+00.00 TO STA. 150+00.00
C37	SEWER MAIN PLAN & PROFILE STA. 150+00.00 TO STA. 154+00.00
C38	SEWER MAIN PLAN & PROFILE STA. 154+00.00 TO STA. 158+00.00
C39	SEWER MAIN PLAN & PROFILE STA. 158+00.00 TO STA. 162+00.00
C40	SEWER MAIN PLAN & PROFILE STA. 162+00.00 TO STA. 166+00.00
C41	SEWER MAIN PLAN & PROFILE STA. 166+00.00 TO STA. 170+00.00
C42	SEWER MAIN PLAN & PROFILE STA. 170+00.00 TO STA. 174+00.00
C43	SEWER MAIN PLAN & PROFILE STA. 174+00.00 TO STA. 178+00.00
C44	SEWER MAIN PLAN & PROFILE STA. 178+00.00 TO STA. 182+00.00
C45	SEWER MAIN PLAN & PROFILE STA. 182+00.00 TO STA. 186+00.00
C46	SEWER MAIN PLAN & PROFILE STA. 186+00.00 TO STA. 190+00.00
C47	SEWER MAIN PLAN & PROFILE STA. 190+00.00 TO STA. 194+00.00
C48	SEWER MAIN PLAN & PROFILE STA. 194+00.00 TO STA. 198+00.00
C49	SEWER MAIN PLAN & PROFILE STA. 198+00.00 TO STA. 202+00.00
C50	SEWER MAIN PLAN & PROFILE STA. 202+00.00 TO STA. 206+00.00
C51	SEWER MAIN PLAN & PROFILE STA. 206+00.00 TO STA. 210+00.00
C52	SEWER MAIN PLAN & PROFILE STA. 210+00.00 TO STA. 214+00.00
C53	SEWER MAIN PLAN & PROFILE STA. 214+00.00 TO STA. 215+63.95
C54	8-INCH (LATERAL B1) SANITARY SEWER PLAN & PROFILE STA. 1+
C55	8-INCH (LATERAL B2) SANITARY SEWER PLAN & PROFILE STA. 1+
C56	8-INCH (LATERAL B2) SANITARY SEWER PLAN & PROFILE STA. 4+
C57	8-INCH (LATERAL C) SANITARY SEWER PLAN & PROFILE STA. 1+
C58	8-INCH (LATERAL D) SANITARY SEWER PLAN & PROFILE STA. 1+
C59	8-INCH (LATERAL E) SANITARY SEWER PLAN & PROFILE STA. 1+
C60	27-INCH (LATERAL F) SANITARY SEWER PLAN & PROFILE STA. 1+
C61	27-INCH (LATERAL F) SANITARY SEWER PLAN & PROFILE STA. 4+
C62	8-INCH (LATERAL G) SANITARY SEWER PLAN & PROFILE STA. 1+
C63	8-INCH (LATERAL H) SANITARY SEWER PLAN & PROFILE STA. 1+
C64	10-INCH (LATERAL I) SANITARY SEWER PLAN & PROFILE STA. 1+
C65	8-INCH (LATERAL J) SANITARY SEWER PLAN & PROFILE STA. 1+

C65A	36-INCH (LATERAL K) SANITARY SEWER PLAN & PROFILE STA. 1+00.00 TO 4+00.00
C65B	36-INCH (LATERAL K) SANITARY SEWER PLAN & PROFILE STA. 4+00.00 TO END
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TP5	TREE PROTECTION (SHEET 5 OF 41)
TP6	TREE PROTECTION (SHEET 6 OF 41)
TP6A	TREE PROTECTION (SHEET 6A OF 41)
TP7	TREE PROTECTION (SHEET 7 OF 41)
TP7A	TREE PROTECTION (SHEET 7A OF 41)
TP8	TREE PROTECTION (SHEET 8 OF 41)
TP9	TREE PROTECTION (SHEET 9 OF 41)

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No.	Revision	By	Date

<div style="margin-left: 10px;"> <p>SAN ANTONIO WATER SYSTEM</p> </div>	<p style="font-size: 1.2em; font-weight: bold; margin: 0;">W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN</p> <p style="font-weight: bold; margin: 0;">SHEET</p> <p style="font-size: 1.5em; font-weight: bold; margin: 0;">SHEET INDEX (SHEET 1 OF 2)</p>
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DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G2
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

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TREE PROTECTION (CONTINUED...)

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TP13	TREE PROTECTION (SHEET 13 OF 41)
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TP15	TREE PROTECTION (SHEET 15 OF 41)
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San Antonio, TX 78216

No.	Revision	By	Date



SAN ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

SHEET INDEX
(SHEET 2 OF 2)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G2A
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

SAWS General Construction Notes

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:

A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM"; TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER"; TAC TITLE 30 PART 1 CHAPTER 290.

B. CURRENT TxDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."

C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."

D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, [HTTPS://APPS.SAWS.ORG/BUSINESS_CENTER/SPECS/CONSTSPECS/](https://apps.saws.org/business_center/specs/constspecs/) UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.

3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 (DURING REGULAR SAWS WORKING HOURS), AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS TWO (2) WEEKS PRIOR TO EXCAVATION. OUTSIDE OF REGULAR SAWS WORKING HOURS THE SAWS EOC SHOULD BE CONTACTED AT 210-704-7297

4. IF NECESSARY, CONTRACTOR WILL COORDINATE USE OF SAWS PREMISES AT NO ADDITIONAL COST TO SAWS. SUCH EFFORTS INCLUDE, BUT ARE NOT LIMITED TO, OBTAINING SECURITY IDENTIFICATION BADGES REQUIRED FOR ACCESS TO SAWS FACILITIES.

5. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.

6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. AS-BUILTS FOR SAW INFRASTRUCTURE CAN BE OBTAINED AT WEBSITE BELOW. CONTRACTOR SHALL COORDINATE PHYSICAL LOCATES FOR SAWS INFRASTRUCTURE THROUGH THE SAWS INSPECTOR. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS INFRASTRUCTURE. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAN ANTONIO WATER SYSTEM:
REQUEST AS-BUILTS: [HTTPS://WWW.SAWS.ORG/SERVICE/LOCATES-SERVICE/](https://www.saws.org/service/locates-service/)

COSA DRAINAGE 210-206-8433
COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720
TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.

8. CONTRACTOR SHALL NOT MAKE USE OF DUMPSTERS OR WASTE BINS THAT ARE INTENDED TO SERVE RESIDENTS AND/OR BUSINESSES.

9. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.

10. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

11. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN SHALL BE DONE IN ACCORDANCE WITH FLOODPLAIN DEVELOPMENT PERMIT.

12. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.

13. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS.

WEEKEND WORK: CONTRACTORS ARE REQUIRED TO SUBMIT REQUEST TO THE SAWS INSPECTION CONSTRUCTION DEPARTMENT BY 12:00PM ON THE WEDNESDAY PRIOR TO THE WEEKEND BEING REQUESTED. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION AT NO COST TO SAWS.

14. PRE-CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS. (NSPI).

15. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.

16. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.

17. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE OVERSEEN BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA INFORMATION AND RELATED MATERIALS MAY BE OBTAINED AT [HTTPS://WWW.OSHA.GOV/](https://www.osha.gov/) OR AT THE OSHA SAN ANTONIO OFFICE LOCATED AT FOUNTAINHEAD TOWER, SUITE 605 8200 W. INTERSTATE 10 SAN ANTONIO, TX 78230 WHICH IS ALSO REACHABLE BY PHONE AT (210) 472-5040.

18. TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREAS IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
- SAWS General Sewer Notes
1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT 210-704-SAWS (210-704-7297). PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.

B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.

D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.

E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.

F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISION THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

2. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION ITEM NO. 865, "BYPASS PUMPING SMALL DIAMETER SANITARY SEWER MAINS" AND STANDARD SPECIFICATION ITEM NO. 864, "BYPASS PUMPING LARGE DIAMETER SANITARY SEWER MAINS" AS APPLICABLE. PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE APPROPRIATE BID ITEM ASSOCIATED WITH SANITARY SEWER BYPASS PUMPING IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS 865 AND 864.

3. PRIOR PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY..

4. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI).

5. SMART MANHOLE COVERS: THE CONTRACTOR SHALL NOTIFY SAWS EOC AT 210-704-SAWS (210-233-7297) AND EITHER AMERICA ESPINOZA AT 210-233-2934 OR JOSE A. MARTINEZ AT 210-233-3071 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

6. FLOW METERS IN MANHOLES: THE CONTRACTOR SHALL NOTIFY BOBBY JOHNSON AT 210-233-3493 OR ABEL BORUNDA AT 210-233-3704 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE FLOW METER IN THE MANHOLE. ANY DAMAGE DONE TO THE FLOW METER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

General Notes

1. THE CONTRACTOR SHALL PROTECT THE PUBLIC, SAWS, AND COSA FULLY TAKING REASONABLE PRECAUTION TO SAFEGUARD PROPERTY OF ANY NATURE WHATSOEVER FROM DAMAGE. PROPERTY WHICH SHALL BE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS CONDITION PRIOR TO DAMAGE AT THE CONTRACTOR'S EXPENSE (NSPI).

2. EXISTING TREES, IMPROVEMENTS AND UTILITIES THAT ARE LOCATED IN AREAS DESIGNATED FOR TEMPORARY CONSTRUCTION USE, SHALL BE PROTECTED FROM ANY POTENTIAL DAMAGE UNLESS SPECIFIC WRITTEN DIRECTION IS PROVIDED BY SAWS. DAMAGE TO THESE ITEMS IN TEMPORARY CONSTRUCTION AREAS SHALL BE CORRECTED TO THE SATISFACTION OF SAWS, AT CONTRACTOR'S EXPENSE (NSPI).

3. CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.

4. THESE PLANS, PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF KIMLEY-HORN AND ASSOCIATES, INC.'S LICENSED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THE WORK. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS.

5. CONTRACTOR SHALL LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, AND CONTROL POINTS. RE-ESTABLISH DISTURBED OR DESTROYED BENCHMARKS AND MONUMENTS BY REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO SAWS. (NSPI).

6. EXISTING PAVING, BUILDINGS, AND OTHER ITEMS SHOWN ON PLANS NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACT ARE FOR INFORMATIONAL PURPOSES ONLY.

7. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO SAWS FOR REVIEW AND WRITTEN APPROVAL.

8. NO SEPARATE PAY FOR ITEMS REQUIRED BY NOTES ON THIS SHEET, UNLESS INCLUDED ON PROPOSAL FORM.

9. CONTRACTOR SHALL COORDINATE WITH THE SAWS INSPECTOR TO ADDRESS ALL LIMITS FOR CURB AND SIDEWALK REMOVAL AND REPLACEMENT BEYOND WHAT IS CONSIDERED INCIDENTAL TO NORMAL UTILITY CONSTRUCTION. IF LIMITS EXCEED INCIDENTALS, CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE GENERAL CONDITIONS OF THE CONTRACT TO DETERMINE IF ADDITIONAL COMPENSATION IS WARRANTED.

10. CONTRACTOR SHALL BE AWARE THAT EXISTING UTILITIES MAY IMPACT THE METHOD OF INSTALLATION. THE INTENT IS FOR THE CONTRACTOR TO USE A MEANS OF JACKING, BORING, OR TUNNELING TO FIT IN THE FOOTPRINT AVAILABLE.

11. IN ALL AREAS WHERE AN EXISTING PAVED SURFACE (SUCH AS A ROADWAY, DRIVEWAY, OR SIDEWALK) IS IMPACTED BY CONSTRUCTION, THE CONTRACTOR SHALL SAW-CUT THE PAVED SURFACE PRIOR TO EXCAVATING, ASSURING CLEAN & STRAIGHT CUT TO FULL DEPTH OF THE PAVED SURFACE, IN ACCORDANCE WITH COSA STANDARD SPECIFICATIONS ITEM 511.4 AND TxDOT STANDARD SPECIFICATIONS ITEM 361.4, WHERE APPLICABLE.

12. IN ALL AREAS WHERE SIDEWALK, CURB, OR DRIVEWAY IS TO BE REPLACED, THE CONTRACTOR SHALL REMOVE AT NEAREST JOINT, IN ACCORDANCE WITH COSA STANDARD SPECIFICATIONS ITEM 511.4.

13. COORDINATES ARE BASED ON THE STATE PLANE COORDINATE SYSTEM ESTABLISHED FOR THE TEXAS SOUTH CENTRAL ZONE 4204, NORTH AMERICAN DATUM (NAD) OF 1983, SURFACE.

NON-STANDARD WORKING HOURS

14. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK OUTSIDE OF STANDARD WORKING HOURS. WORK OUTSIDE OF STANDARD WORKING HOURS SHALL BE CONSIDERED SUBSIDIARY TO THE RELEVANT BID ITEM(S).

TUNNELING

15. THE CONTRACTOR SHALL SECURE ALL SHAFT LOCATIONS WITH SECURITY FENCING AND ALL PROPER SAFETY MEASURES (NSPI).

16. TEMPORARY SHAFT DIMENSIONS ARE SHOWN TO ILLUSTRATE APPROXIMATE LOCATION ONLY. SHAPE/SIZE TO BE DETERMINED BY CONTRACTOR AND INCLUDED IN SHAFT SUBMITTAL PER SECTION SS 02261 - SHAFT EXCAVATION AND SUPPORT.

17. APPROVED TUNNEL INSTALLATION METHODS ARE DEFINED WITHIN THE SPECIAL SPECIFICATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT ONE OF THE APPROVED TUNNELING METHODS FOR EACH LOCATION THAT THEY DETERMINE APPROPRIATE FOR INSTALLATION, GIVEN THE SITE CONDITIONS AND CONSTRAINTS AT EACH TUNNELING LOCATION.

SUPPLEMENTARY

18. NO EXTRA-PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES. THE CONTRACTOR IS REQUIRED TO SUBMIT A REQUEST FOR INFORMATION (RFI), REQUEST FOR PAYMENT (RFP), CHANGE ORDER (CO) AND, IF NECESSARY, AWAIT BOARD APPROVAL FOR ANY WORK OUTSIDE THE PLANS. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT BEEN APPROVED IN ACCORDANCE WITH THE CONTRACT WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF CONTRACTOR.

19. CONTRACTOR MUST CALL FOR BACKFILL INSPECTIONS.

20. DENSITY REPORTS MUST BE SUBMITTED TO THE INSPECTOR WITHIN 24 HOURS OF TESTING.

SANITARY SEWER NOTES:

21. CONNECTION OF EXISTING SANITARY SEWERS TO PROPOSED MANHOLES, CONNECTION OF PROPOSED SANITARY SEWERS TO EXISTING MANHOLES, AND EXTENSIONS OF EXISTING SANITARY SEWER PIPE TO PROPOSED MANHOLES SHALL BE SUBSIDIARY TO THE COST OF THE PROPOSED MANHOLE.

22. CONNECTION OF DROP CONNECTION(S) AND VENT ASSEMBLIES TO PROPOSED MANHOLES SHALL BE SUBSIDIARY TO THE COST OF THE PROPOSED MANHOLE.

23. REMOVAL OF EXISTING SEWER LINES TO BE REPLACED WITH PROPOSED LINES IN THE SAME TRENCH AT THE SAME OR SHALLOWER GRADE SHALL BE SUBSIDIARY TO THE COST OF THE PROPOSED SEWER LINES. (NSPI).

24. THE CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING SANITARY SEWERS AT ALL TIMES DURING CONSTRUCTION.

25. ALL HINGED SANITARY SEWER MANHOLES INSTALLED WITHIN PAVEMENT SHALL CLOSE IN DIRECTION OF TRAFFIC FLOW.

26. CONTRACTOR MAY ENCOUNTER CONCRETE ENCASEMENT IN THE IMMEDIATE VICINITY OF EXISTING MANHOLES. ANY CONCRETE REMOVAL REQUIRED FOR THE PROPER INSTALLATION OF PROPOSED SEWER MAIN AND TIE-INS SHALL BE SUBSIDIARY TO THE COST OF THE PROPOSED MANHOLE.

27. ALL SANITARY SEWER MANHOLE RING AND COVERS SHALL BE WATERTIGHT.

28. THE CONTRACTOR SHALL COMPLY WITH TCEQ CHAPTER 217.53 (M)(2)(C) WITH REFERENCE TO PIPE JOINT DEFLECTION. THE CONTRACTOR SHALL COORDINATE WITH HOBAS REGARDING THE PIPE LENGTHS REQUIRED TO ACHIEVE THE REQUIRED DEFLECTION THAT IS IN COMPLIANCE WITH TCEQ DEFLECTION REQUIREMENTS FOR THE RADIUS OF THE CURVES ON THE PROJECT.

TRAFFIC CONTROL

29. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TxDOT STANDARDS. TRAFFIC CONTROL DEVICES ARE TO BE GENERALLY LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.

30. CONTRACTOR TO ESTABLISH AND MAINTAIN TRAFFIC BARRICADING AND CONTROL DEVICES ALONG THE ALIGNMENT IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN. SEE SHEET TCP1 FOR ADDITIONAL TRAFFIC CONTROL NOTES.

ROAD NOTES

31. RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS SHALL BE INSTALLED TO MATCH EXISTING CONDITION AND ARE SUBSIDIARY TO HOT MIX ASPHALTIC PAVEMENT LINE ITEM. RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH TxDOT SPECIFICATION 672 AND 666 AND COSA SPECIFICATION 535 AND 537 WHERE APPLICABLE.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

32. A CONSTRUCTION SITE NOTICE SHALL BE POSTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

33. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN A CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITY AS SPECIFIED IN THE SWPPP.

34. A COPY OF THE SWPPP, INCLUDING CONTRACTOR CERTIFICATIONS AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY AND FILED WITH THE CONSTRUCTION PLANS, AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.

35. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, SUBMITTING, AND POSTING THE NOTICE OF INTENT AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH STATE RULES AND REGULATIONS.

36. A NOTICE OF TERMINATION (N.O.T.) SHALL BE SUBMITTED TO THE TCEQ BY THE CONTRACTOR WHEN THE SITE HAS 100% OF THE DISTURBED AREAS STABILIZED AND THE SITE NO LONGER HAS STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, OR THE N.O.T. PERMITTEE OR CO-PERMITTEE.

37. CONTRACTOR SHALL OBTAIN AND MAINTAIN SWPPP THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION AND UNTIL SURFACE IS RESTORED.

38. GRAVEL FILTER BAGS TO BE USED ALONG THE CURB WITHIN CONSTRUCTION LIMITS.

39. ALL COSTS FOR THE STORM WATER POLLUTION PREVENTION PLAN, PERMIT, ETC. SHALL SUBSIDIARY TO THE LUMP SUM COST OF THE "SWPPP" LINE ITEM.

WALTON, LINDSEY 12/02/21 11:51 AM
KUSA UTILITIES 06/06/2008 CAD PLAN SHEETS
GENERAL NOTES.DWG
11/22/20 15:21 PM
PLOTTED BY
DWG NAME
COSA SEWER

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JEFFREY A. FARNSWORTH

SERIAL NO. 80190

DATE: JANUARY 2024

SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

GENERAL NOTES (SHEET 1 OF 2)

DATE: JANUARY 2024

DESIGN: KHA

DRAWN: KHA

CHECKED: KHA

SAWS PROJECT NO.

22-4501

KHA PROJECT NO.

068665068

SHEET NO.

G3

General Notes (Cont.)

FLOODPLAIN

41. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED COSA FLOODPLAIN PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION.
42. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF WORK, MATERIAL, AND EQUIPMENT PRIOR TO RAIN EVENTS. A MAJORITY OF THE PROJECT IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN AND FLOODWAY AREAS OF LEON CREEK. THE PROJECT SITE IS SUSCEPTIBLE TO QUICKLY RISING WATER IN RESPONSE TO RAINFALL EVENTS. NO MATERIAL SHALL BE STORED IN THE 100-YEAR FLOODPLAIN LONGER THAN THE END OF THE SHIFT IN WHICH IT WAS GENERATED. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING TRENCHES, PITS, MATERIALS, AND EQUIPMENT FROM DAMAGE/INUNDATION OF FLOOD WATERS. ROADWAYS TO THE PROJECT SITE CAN BE EXPECTED TO BE BLOCKED OFF AS LOW WATER CROSSING DURING STORM EVENTS AND FOR EXTENDED PERIODS THEREAFTER. CONTRACTOR SHALL COORDINATE WITH SAWS TO DETERMINE WHETHER CONTRACTOR MAY RETURN TO WORK ONSITE AFTER RAIN EVENT/PARK CLOSURE.
43. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS.
44. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING (210-206-8433) AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
45. CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
46. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-206-8433 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
47. UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/SHAFTS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/SHAFTS TO BE IMPACTED BY CONSTRUCTION LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL WHEN NOT IN USE.
48. IMPROVED SECTIONS OF EARTHEN CHANNELS AND/OR WATERWAYS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.

SPRINT

49. THE EXISTENCE AND LOCATION OF OVERHEAD CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATE 48 HOURS PRIOR TO EXCAVATION AT 1-800-545-6005 OR 811. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY POLES DURING CONSTRUCTION.

AT&T

50. THE CONTRACTOR SHALL CALL FOR LOCATES THROUGH THE "ONE CALL" UTILITY LOCATE SERVICE (1-800-344-8377) 48 HOURS PRIOR TO CONSTRUCTION/EXCAVATION WORK. CONTRACTORS HAVE THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY DURING CONSTRUCTION.

CPS ENERGY NOTES:

51. ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (HEALTH AND SAFETY CODE, TITLE 9, SUBTITLE A, CHAPTER 752) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PRECAUTIONARY MEASURES.
52. CALL CPS LOCATOR 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
53. THE FOLLOWING CPS CONTACT INFORMATION IS PROVIDED FOR THE CONTRACTOR'S USE:
CPS LOCATOR - 210-353-4897 (LILLIAN MORALES)
CUSTOMER ENGINEERING (OUTAGES & POLE BRACING) - 210-353-4050
RIGHT-OF-WAY (EASEMENT ACCESS) - 210-353-3477 (BARBARA BROLL)
OUTSIDE SERVICES - 210-353-5243 (SID BONILLA)
54. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.
55. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND CPS VALVES THAT ARE IN THE PROJECT AREA.
56. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH CPS TO BRACE DISTRIBUTION POWER POLES. ANY POLES WITHIN 10 FEET OF CONSTRUCTION SHALL BE REVIEWED WITH CPS TO DETERMINE IF BRACING IS REQUIRED. (NSPI).
57. STOCKPILING OF DIRT, STACKING OF CONSTRUCTION MATERIALS, OR CREATION OF ANY MEANS FOR PERSONNEL OR EQUIPMENT TO BE CLOSER TO LIVE POWER LINES, IS STRICTLY FORBIDDEN. CONTRACTOR SHALL TAKE ALL MEANS NECESSARY TO CONSTRUCT NEW SEWER IN PROXIMITY TO POWER LINES SAFELY, AND IN ACCORDANCE WITH CURRENT OSHA GUIDELINES. CONTRACTOR SHALL BE PREPARED TO RELOCATE ANY AND ALL TEMPORARILY STORED MATERIALS WITHIN CPS EASEMENT AT ANY TIME UPON REQUEST BY CPS.
58. COORDINATION FOR POTENTIAL OUTAGE REQUESTS MUST BE MADE NO LESS THAN THREE (3) MONTHS IN ADVANCE WITH CPS ENERGY SYSTEM OPERATIONS. NO OUTAGES WILL BE CONSIDERED DURING PEAK SUMMER MONTHS (JUNE-SEPTEMBER).

MISCELLANEOUS

59. THE ACRONYM "NSPI" IS UTILIZED THROUGHOUT THESE PLANS AND STANDS FOR "NO SEPARATE PAY ITEM".

CONSTRUCTION ACCESS AND STAGING

60. PRIMARY CONSTRUCTION ACCESS ROUTE SHOWN IN THE PLANS SHALL SERVE AS THE CONTRACTOR'S PRIMARY INGRESS AND EGRESS ROUTE. CONTRACTOR SHALL STAKE THE EDGES OF THE WORK AND ACCESS AREAS AT 50-FOOT INTERVALS USING SURVEY LATH, OR EQUIVALENT, PRIOR TO CLEARING. ACCESS STAKING MUST BE HIGHLY VISIBLE WITH BRIGHT PAINTING OR FLAGGING. ALTHOUGH A CORRIDOR OF VARYING WIDTH IS BEING PROVIDED FOR ACCESS, THE CONTRACTOR SHALL NOT CLEAR THE ENTIRE PROVIDED ACCESS ZONE. ONLY A PATH OF MAXIMUM WIDTH OF 20-FEET IS TO BE CLEARED, AND THE INTENDED 20-FOOT CLEARED PATH SHALL BE APPROVED BY SAWS AND THE ENGINEER PRIOR TO ANY CLEARING TAKING PLACE. TREE PRESERVATION IS OF GREAT IMPORTANCE ON THIS PROJECT.
61. CONTRACTOR MUST STAY WITHIN THE AREAS DESIGNATED FOR WORK AND ACCESS. IF CONTRACTOR NEEDS TO WORK OUTSIDE OF THESE DESIGNATED AREAS, CONTRACTOR MUST COORDINATE WITH SAWS INSPECTOR AND CITY OF SAN ANTONIO PARKS DEPARTMENT AND RECEIVE APPROVAL BEFORE CHANGING LIMITS.
62. THE CONTRACTOR WILL BE ALLOWED TO REMOVE TREES ACCORDING TO THE TREE PROTECTION PLAN, SEE SHEETS TPA-TP30A. CONTRACTOR TO MARK TREES TO BE REMOVED IN THE FIELD FOR BOTH THE OWNER AND ENGINEER TO VERIFY PRIOR TO ANY CLEARING TAKING PLACE. ONCE THE MARKED TREES HAVE BEEN VERIFIED AND APPROVED BY THE OWNER AND ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE TREE REMOVAL.
63. CONTRACTOR SHALL COORDINATE WITH SAWS AND THE ENGINEER TO SCHEDULE A WALK THROUGH FOR APPROVAL OF THE STAKED WORK AND ACCESS AREAS PRIOR TO ANY CLEARING, INCLUDING APPROVAL ON THE TREES PROPOSED TO BE REMOVED.
64. CONTRACTOR SHALL MINIMIZE REMOVAL OF EXISTING TREES AND VEGETATION, EVEN WITHIN THE PROPOSED ACCESS ROUTES AND WORK AREAS, WHEREVER POSSIBLE. CONSTRUCTION ACCESS ROUTES SHOWN ON SHEETS G26 - G32 ARE INTENDED TO MINIMIZE CONFLICTS WITH EXISTING TREES AND COSA TRAILS, AND TO REDUCE THE AMOUNT OF TREE/VEGETATION CLEARING. IN NO CASE SHALL TREE CLEARING WIDTH EXCEED LIMITS SHOWN IN THE PLANS IN ORDER TO MAINTAIN COMPLIANCE WITH TREE PERMIT FROM CITY OF SAN ANTONIO.
65. TREES TO REMAIN WITHIN THE ACCESS AREA, PER THE TREE PROTECTION PLANS ON TPA-TP41, SHALL BE PROTECTED PER CITY OF SAN ANTONIO TREE PROTECTION DETAILS (NSPI). TREES/VEGETATION REMOVED FOR CONSTRUCTION ACCESS MAY BE MULCHED WITHIN THE ACCESS AREA BUT ALL MULCH MUST BE REMOVED FROM THE 100-YEAR FLOODPLAIN WITHIN 24 HOURS.
66. CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA AND BACKFILLING ALL TRENCHES AT THE END OF EACH DAY.
67. CONTRACTOR SHALL ADJUST TEMPORARY FENCING AS NEEDED FOR ACCESS BETWEEN TRENCHLESS AND OPEN-CUT SECTIONS.
68. CONTRACTOR SHALL REFERENCE DETAIL 2 ON SHEET C70 FOR THE PROPOSED TEMPORARY FENCING.

VEGETATION RESTORATION

69. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX APPROVED FOR USE BY COSA. SEE SPECIAL CONDITIONS SECTION 6.
70. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS DIRECTED BY SAWS.
71. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF 1/4 TO 1/3-INCH. SEED SHALL BE APPLIED ALONG THE CONTOUR OF THE SLOPE.

COSA GREENWAY TRAILS SYSTEM

72. CONTRACTOR SHALL REFER TO SPECIAL CONDITIONS FOR GUIDANCE ON CONSTRUCTION WITHIN THE COSA GREENWAY TRAILS SYSTEM.
73. THE CONTRACTOR SHALL AVOID DAMAGE OF ANY KIND TO THE COSA GREENWAY TRAILS AND SHALL MINIMIZE ENCROACHMENT ON THE TRAILS DURING CONSTRUCTION. ANY DAMAGED TRAILS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION. (NSPI).
74. ANY TEMPORARY SURFACE OR PATCH ON THE TRAILS SHALL BE COARSE AND SLIP RESISTANT. NO TRAIL SHALL BE TEMPORARILY OR PERMANENTLY COVERED OR PATCHED WITH A SURFACE THAT IS OR COULD BECOME SLIPPERY (I.E. STEEL PLATES, PLASTIC SHEETING, ETC.).
75. NOTIFY COSA PARKS AT 1-210-207-2721 A MINIMUM OF TWO WEEKS PRIOR TO STARTING CONSTRUCTION AND 48 HOURS PRIOR TO MOBILIZING EQUIPMENT.
76. CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF THE PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
77. CONTRACTOR SHALL PROVIDE ADVANCED WARNING ALONG COSA TRAIL IN BOTH DIRECTIONS NOTIFYING PEDESTRIANS OF CONSTRUCTION WORK ZONE AHEAD, SEE COSA TRAIL SIGNAGE PLANS G50-G57. ADVANCED WARNING AND SIGNAGE SHALL FOLLOW CURRENT MUTCD DESIGN GUIDELINES FOR TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL USE FLAGGERS AT ALL TIMES WHILE CONSTRUCTION ACTIVITIES ARE NEAR AND/OR CROSSING COSA PARK TRAILS AS AN ADDITIONAL MEANS OF PROTECTING THE PUBLIC.
78. NEW SEWER CONSTRUCTION IS TO OCCUR WITHIN THE CITY OF SAN ANTONIO LEON CREEK GREENWAY AND CROSSING UNDER GRISSOM ROAD AND BANDERA ROAD. WITHIN THE GREENWAY, THE CONTRACTOR IS DIRECTED TO PLACE TEMPORARY FENCING BETWEEN SAWS UTILITY CONSTRUCTION AND THE GREENWAY, SO THAT USERS OF THE GREENWAY WILL BE UNABLE TO ENTER CONSTRUCTION ZONE. IF CONSTRUCTION ACTIVITIES ARE REQUIRED THAT MAY IMPACT OR TEMPORARILY CLOSE THE GREENWAY, CONTRACTOR IS DIRECTED TO NOTIFY SAWS INSPECTIONS, COSA PARKS AND RECREATION, AND THE PROJECT DESIGN MANAGER AT LEAST 2 WEEKS IN ADVANCE OF INTENDED GREENWAY CLOSURE. CONTRACTOR WILL ALSO INSTALL TEMPORARY WARNING SIGNS, AS DIRECTED BY THE CITY OF SAN ANTONIO, PRIOR AND DURING WORK. CONTRACTOR IS DIRECTED TO TAKE A HIGH DEGREE OF CARE TO ENSURE THAT GREENWAY PATRONS ARE KEPT SAFE.

LEGEND

	PROPOSED SANITARY SEWER LINE
	PROPOSED TUNNEL
	PROPERTY LINE
	PROPOSED EASEMENT
	EXISTING EASEMENT
	EXISTING WATERLINE
	EXISTING SANITARY SEWER LINE
	EXISTING GAS LINE
	EXISTING OVER HEAD ELECTRIC LINE
	EXISTING UNDERGROUND CABLE
	EXISTING FIBER OPTIC
	EXISTING ASPHALT PAVEMENT
	EXISTING 100-YR FLOOD PLAIN
	EXISTING STORM DRAIN
	EXISTING GUARDRAIL
	EXISTING FENCE
	EXISTING SILT FENCE
	EXISTING WOOD FENCE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM DRAIN MANHOLE
	EXISTING WATER METER
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SIGN
	EXISTING POWER POLE
	EXISTING GUY WIRE ANCHOR
	EXISTING TREE

WALTON, LINDSEY 12/7/23 9:15 AM
K:\SNA UTILITIES\06865068\CADD\PLANS\SHEETS\GENERAL NOTES.DWG
12/22/23 10:27 AM
PLOTTED BY
DWG NAME
LAST REVISED

TOTAL ESTIMATED QUANTITIES				
ITEM NO.	SPEC. NO	DESCRIPTION	UNIT	QUANTITY
1	C85A (1)	INSTALL TEMPORARY CHAIN-LINK WIRE FENCE	LS	1
2	C85A (2)	REMOVE AND REPLACE CONCRETE COSA TRAIL	SY	2,177
3	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	40
4	200.1	FLEXIBLE BASE (4" THICK - COMPACTED) (COSA SPEC)	SY	4,300
5	200.1	FLEXIBLE BASE (6" THICK - COMPACTED) (COSA SPEC)	SY	946
6	205.1	HOT MIX ASPHALTIC PAVEMENT TYPE A (3" PAVEMENT THICKNESS) (COSA SPEC)	SY	946
7	209.1	CONCRETE PAVEMENT (6" THICK) (COSA SPEC)	SY	1,477
8	299	FLOWABLE FILL (LOW STRENGTH)	CY	2,076
9	404.1	24-INCH CORRUGATED METAL PIPE (COSA SPEC)	LF	103
10	SP 0432 6032	RIPRAP (STONE PROTECTION) (15 IN) (TXDOT SPEC)	SY	1,866
11	0466 6097	HEADWALL (CH - PW - 0) (DIA = 24 IN) (TXDOT SPEC)	EA	1
12	500	CONCRETE CURB AND GUTTER	LF	40
13	505.1	CONCRETE RIPRAP (5" THICK) (COSA SPEC)	SY	185
14	515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	20,385
15	515.1	TOPSOIL (4-INCH DEPTH) (W-52 SHARED EASEMENT) (COSA SPEC)	CY	4,868
16	G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	183,463
17	G26-G32	DRILL SEEDING WITH NATIVE GRASSES (W-52 SHARED EASEMENT)	SY	43,806
18	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC)	LS	1
19	0530 6005	DRIVEWAYS (ACP) (TXDOT SPEC)	SY	61
20	SP 540.1	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	LS	1
21	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	13,585
22	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (0'-6" DEPTH)	LF	160
23	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (6'-10' DEPTH)	LF	624
24	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (10'-14' DEPTH)	LF	133
25	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (14'-18' DEPTH)	LF	56
26	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (18'-22' DEPTH)	LF	131
27	848	8-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (35'+ DEPTH)	LF	15
28	848	10-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (18'-22' DEPTH)	LF	10
29	848	10-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (25'-30' DEPTH)	LF	10
30	848	12-INCH PVC (ASTM D-3034) (SDR 26) SANITARY SEWER LINE (6'-10' DEPTH)	LF	40
31	848	27-INCH PVC (ASTM F-679) (PS 115) SANITARY SEWER LINE (6'-10' DEPTH)	LF	462
32	848	27-INCH PVC (ASTM F-679) (PS 115) SANITARY SEWER LINE (10'-14' DEPTH)	LF	212
33	SP 853	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	EA	5
34	SP 853	FIBER-REINFORCED SANITARY SEWER MANHOLE (5' DIAMETER)	EA	1
35	SP 853	FIBER-REINFORCED SANITARY SEWER MANHOLE W/ DROP (4' DIAMETER)	EA	5
36	SP 853	FIBER-REINFORCED SANITARY SEWER MANHOLE W/ DROP (5' DIAMETER)	EA	2
37	SP 853	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE, MITER	EA	25
38	SP 853	FIBER-REINFORCED SANITARY SEWER DROP MANHOLE - TEE BASE FIBERGLASS MANHOLE, MITER	EA	11
39	SP 857	36-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (14'-18' DEPTH)	LF	29
40	SP 857	36-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (18'-22' DEPTH)	LF	33
41	SP 857	36-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH)	LF	27
42	SP 857	36-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	LF	304
43	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (6'-10' DEPTH)	LF	295
44	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (10'-14' DEPTH)	LF	688
45	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (14'-18' DEPTH)	LF	469
46	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (18'-22' DEPTH)	LF	1,193
47	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH)	LF	836
48	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	LF	5,897
49	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	LF	1,815
50	SP 857	48-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (35'+ DEPTH)	LF	147
51	858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	9
52	SP 862	ABANDONMENT OF MANHOLE	EA	3
53	SP 862	ABANDON - SANITARY SEWER MAIN (33-INCH) AND MANHOLES	LF	12,009
54	SP 862	ABANDON - SANITARY SEWER MAIN (36-INCH) AND MANHOLES	LF	8,857
55	864	BYPASS PUMPING AND FLOW MANAGEMENT (LARGE DIAMETER SANITARY SEWERS)	LS	1
56	865	BYPASS PUMPING AND FLOW MANAGEMENT (SMALL DIAMETER SANITARY SEWERS)	LS	1
57	866	SEWER MAIN POST TELEVISION INSPECTION (8"-15")	LF	1,727
58	866	SEWER MAIN POST TELEVISION INSPECTION (27" OR LARGER)	LF	21,939
59	866	PRE-CONSTRUCTION SEWER MAIN TELEVISION INSPECTION (8"-15")	LF	1,816
60	866	PRE-CONSTRUCTION SEWER MAIN TELEVISION INSPECTION (27" OR LARGER)	LF	21,541
61	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 1)	LS	1
62	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 2)	LS	1
63	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 3)	LS	1
64	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 4)	LS	1
65	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 5)	LS	1
66	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 6)	LS	1
67	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 6A)	LS	1
68	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 7)	LS	1
69	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 8)	LS	1
70	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 9)	LS	1
71	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 10)	LS	1
72	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 11)	LS	1
73	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 12)	LS	1

74	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 13)	LS	1
75	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 14)	LS	1
76	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 15)	LS	1
77	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 16)	LS	1
78	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 17)	LS	1
79	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 18)	LS	1
80	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 19)	LS	1
81	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 20)	LS	1
82	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 21)	LS	1
83	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 22)	LS	1
84	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 23)	LS	1
85	SS 02261	SHAFT EXCAVATION AND SUPPORT (SHAFT 24)	LS	1
86	SS 02314	OPEN FACE TUNNELING	LF	9,532
87	SS 02341	OPEN FACE PIPEJACKING	LF	548
88	SS 02349	48-INCH PS72 (ASTM D-3262) CARRIER PIPE (MATERIAL & INSTALL)	LF	9,532
89	SS 02349	10-INCH PVC (ASTM D-3034) (SDR 26) CARRIER PIPE (MATERIAL & INSTALL)	LF	265
90	SS 02349	8-INCH PVC (ASTM D-3034) (SDR 26) CARRIER PIPE (MATERIAL & INSTALL)	LF	283
91	C67 (1)	DOGHOUSE MANHOLE	EA	5
92	SS 01510-A	TEMPORARY FEATURE PROTECTION (4' X 8' PLYWOOD SHEET)	EA	1
93	SS 01510-B(a)	PEA GRAVEL-FILLED POLYPROPYLENE BAG (1-CU.FT) IN TRENCH	EA	1
94	SS 01510-B(b)	PEA GRAVEL-FILLED POLYPROPYLENE BAG (1-CU.FT) UNDERGROUND	EA	1
95	SS 01510-C(a)	3" TO 5" ROCK IN TRENCH	CY	1
96	SS 01510-C(b)	3" TO 5" ROCK UNDERGROUND	CY	1
97	SS 01510-D	FILTER FABRIC FOR FEATURE REMEDIATION	SY	1
98	SS 01510-E(a)	LOW SLUMP CONCRETE IN TRENCH	CY	1
99	SS 01510-E(b)	LOW SLUMP CONCRETE UNDERGROUND	CY	1
100	SS 01510-F	SPECIAL TRENCH SAFETY ASSOCIATED WITH OBSERVATION OF FEATURE	LF	1
101	SS 01510-G(a)	DOWNTIME ASSOCIATED WITH OBSERVATION OF FEATURES IN TRENCHES	MD	1
102	SS 01510-G(b)	DOWNTIME ASSOCIATED WITH OBSERVATION OF FEATURES IN SHAFTS	MD	1
103	SS 01510-G(c)	DOWNTIME ASSOCIATED WITH OBSERVATION OF FEATURES IN TUNNELS	MD	1
104	SS 01510-H(a)	CONSTRUCT TUNNEL BULKHEAD AND DRILL FILL HOLE FROM SURFACE	LS	1
105	SS 01510-H(b)	GROUT FROM SURFACE TO FILL FEATURE	CY	1
106	SS 01510-I	SUPPLY AND INSTALL MINE FOAM (UNDERGROUND)	CF	1
107	SS 01510-J	INSTALL STRUCTURAL STEEL (UNDERGROUND)	LB	1
108	102.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION (OPEN-CUT)	EACH	2
109	102.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION (TUNNEL)	EACH	2
110	102.2	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	DAY	1
111	102.3	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY	1
112	102.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH	DAY	1
113	100	MOBILIZATION (MAXIMUM 10% OF ITEMS 1 TO 107)	LS	1
114	101	PREPARING RIGHT-OF-WAY (MAXIMUM 5% OF ITEMS 1 TO 107)	LS	1


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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn
Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



SAN ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

OVERALL
QUANTITIES

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G5
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

KEY NOTES – OWNERSHIP

- 1

CITY OF SAN ANTONIO
DRAINAGE EASEMENT
WARRANTY DEED
VOLUME 0018, PAGE 3612
O.P.R.B.C.T.
- 2

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 10468, PAGE 1012
DOCUMENT NUMBER 20090127103
O.P.R.B.C.T.
- 3

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 14068, PAGE 0832
DOCUMENT NUMBER 20090127070
O.P.R.B.C.T.
- 4

CITY OF SAN ANTONIO
GIFT WARRANTY DEED
VOLUME 14068, PAGE 0838
DOCUMENT NUMBER 20090127071
O.P.R.B.C.T.
- 5

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13603, PAGE 1636
DOCUMENT NUMBER 20080158318
O.P.R.B.C.T.
- 6

LBT ENTERPRISES, INC,
SPECIAL WARRANTY DEED
VOLUME 7768 PAGE 1487
O.P.R.B.C.T.
- 7

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 14256 PAGE 1802
O.P.R.B.C.T.
- 8

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 14256 PAGE 1795
O.P.R.B.C.T.
- 9

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13904 PAGE 2429
O.P.R.B.C.T.
- 10

DAVID J. THOLEN
SPECIAL CASH WARRANTY DEED AND
AGREEMENT
VOLUME 7898 PAGE 1450
O.P.R.B.C.T.
- 11

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13603, PAGE 1636
DOCUMENT NUMBER 20080158318
O.P.R.B.C.T.
- 12

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13626, PAGE 0766
DOCUMENT NUMBER 20080170512
O.P.R.B.C.T.
- 13

ONE NORTH PLACE UNIT–8
DRAINAGE EASEMENT
VOLUME 7200 PAGE 208–209
O.P.R.B.C.T.
- 14

CLINT PATTIE
SPECIAL WARRANTY DEED WITH
VENDOR’S LIEN
VOLUME 16768 PAGE 162
DOCUMENT NUMBER: 20060158788
O.P.R.B.C.T.
- 15

GENE J & DIANNE J SIRIZZOTTI,ET AL.
WARRANTY DEED
VOLUME 8115, PAGE 2002
O.P.R.B.C.T.
- 16

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13965, PAGE 2146
DOCUMENT NUMBER 20090078860
O.P.R.B.C.T.
- 17

GENE J & DIANNE J SIRIZZOTTI,ET AL.
WARRANTY DEED
VOLUME 8115, PAGE 2002
O.P.R.B.C.T.
- 18

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13610, PAGE 0429
DOCUMENT NUMBER 20080162173
O.P.R.B.C.T.
- 19

OSCAR ANDRES HERNANDEZ
WARRANTY DEED WITH VENDOR’S LIEN
DOCUMENT NUMBER: 20070236620
O.P.R.B.C.T.
- 20

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13965, PAGE 2146
DOCUMENT NUMBER 20090078860
O.P.R.B.C.T.
- 21

CITY OF SAN ANTONIO
VOLUME 14025, PAGE 749
DOCUMENT NUMBER 20090106811
O.P.R.B.C.T.
- 22

OSCAR ANDRES HERNANDEZ
WARRANTY DEED WITH VENDOR’S LIEN
DOCUMENT NUMBER: 20070236620
O.P.R.B.C.T.
- 23

SAN ANTONIO PARKS FOUNDATION
SPECIAL GIFT WARRANTY DEED
VOLUME 7493, PAGE 640
O.P.R.B.C.T.
- 24

GENE J. SIRIZZOTTI BUILDERS, INC.
A TEXAS CORPORATION
SPECIAL WARRANTY DEED
VOLUME 5844, PAGE 1955
O.P.R.B.C.T.
- 25

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13690, PAGE 0583
DOCUMENT NUMBER 20080207626
O.P.R.B.C.T.
- 26

LOT 15, N.C.B. 17975
BANDERA COMMONS UNIT–3 SUBDIVISION
VOLUME 9571, PAGE 87
O.P.R.B.C.T.

GENERAL NOTES:

- 1) DISTANCES AND COORDINATES ARE IN U.S. SURVEY FEET. DISPLAYED IN SURFACE VALUES AND MAY BE CONVERTED TO GRID BY DIVIDING BY THE COMBINED SCALE FACTOR OF 1.00017.
- 2) ALL ELEVATIONS SHOWN HERE ARE BASED ON NAVD 88 (1988 ADJ.)
- 3) THE HORIZONTAL CONTROL IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NORTH AMERICAN DATUM NAD 83.
- 4) BASED ON A SURVEY COMPLETED IN APRIL 2023
- 5) ALL BOUNDARY LINES ARE APPROXIMATE. ANY BOUNDARY LINES PROVIDED WITHOUT AN ACCOMPANYING SEAL AND SIGNATURE ARE PRELIMINARY. THIS DOCUMENT WILL NOT BE RECORDED FOR ANY PURPOSE, AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL BOUNDARY SURVEY DOCUMENT.

LEGEND:

- N.C.B.

NEW CITY BLOCK
- O.P.R.B.C.T.


OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS

SILVIA LOPEZ/ 1/25/2023 2:37 PM
V:\2126 SAWS\W9 UPPER LEON CREED\DRAWINGS\2126 SAWS\W9 CONTROL MAP.DWG
1/25/2023 2:37 PM

PLOTTED BY
DWG NAME
LAST SAVED

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STEPHANE L. JAMES _____ R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024



• Engineers
• Surveyors
• Planners

Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698–5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698–5085

No.	Revision	By	Date



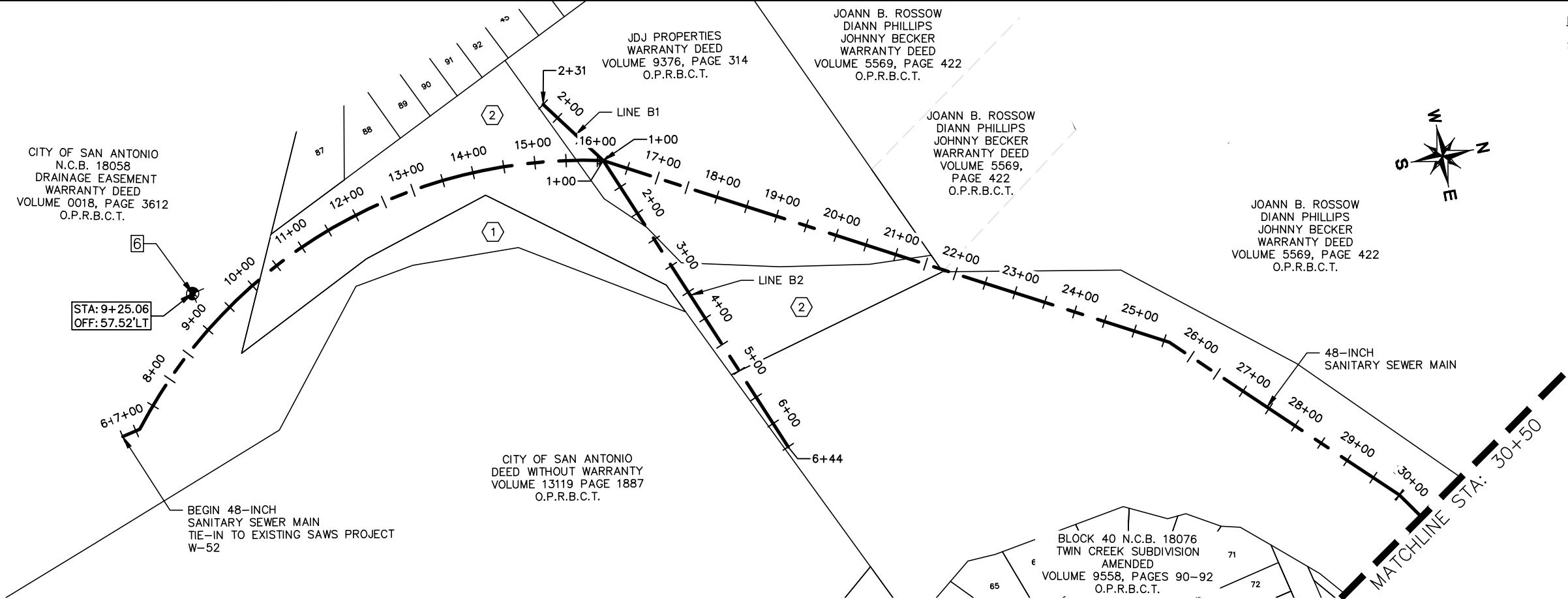
SAN ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48–INCH SEWER MAIN
SHEET

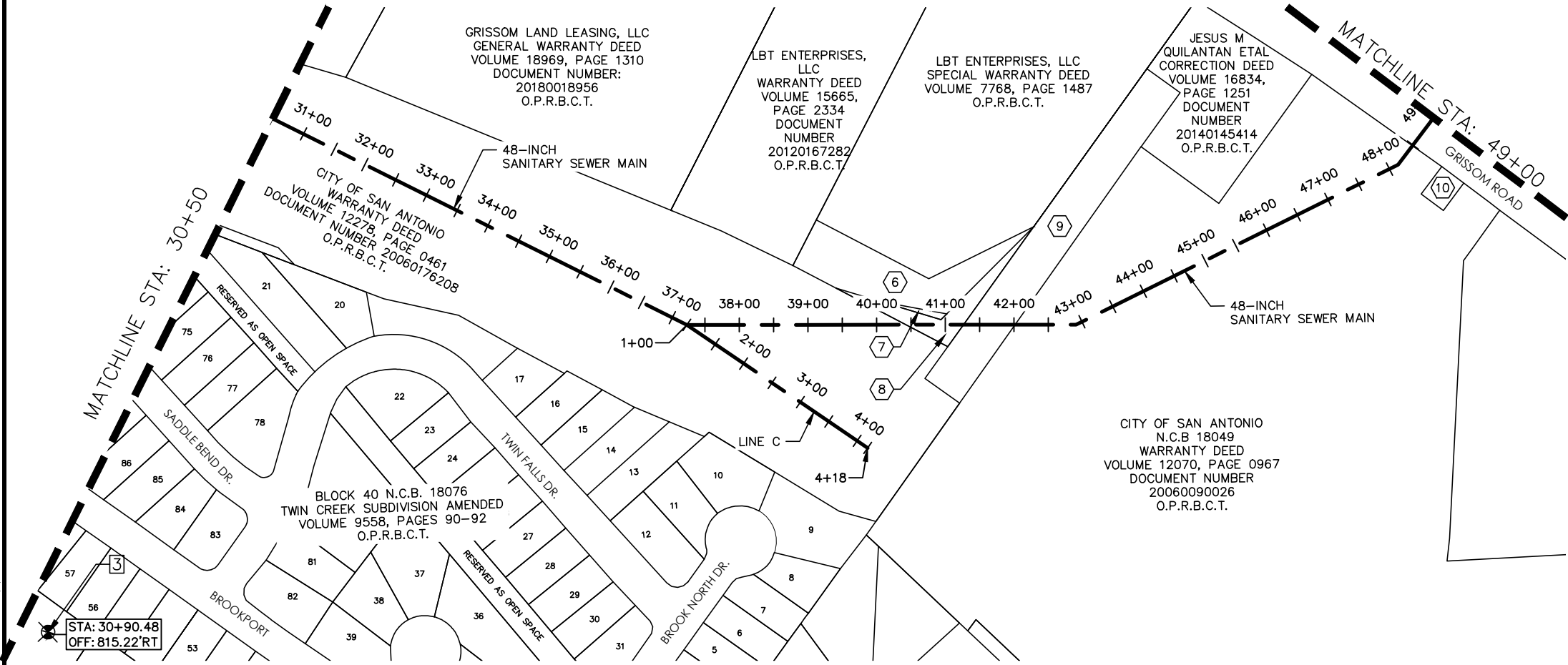
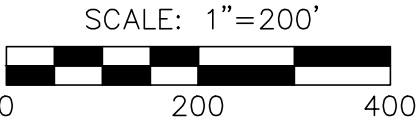
CONTROL MAP
(1 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G5A
DESIGN: KHA	22–4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

NOTES:
SEE SHEET G5A FOR GENERAL NOTES, KEYNOTES, AND LEGEND



BENCHMARK TABLE				
Point/BM #	Elevation	Northing	Easting	Description
3	772.26	13723357.30	2085340.35	CP3 MAGNAIL W/ MTR SHINER
6	775.67	13722158.13	2084116.77	CP 6 SIP 1/2 W/PINK MTR CAP




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STEPHANE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024

MTR
Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

• Engineers
• Surveyors
• Planners

No.	Revision	By	Date



SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

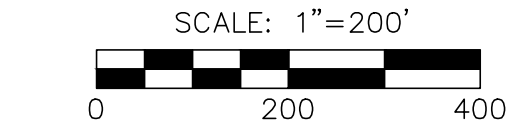
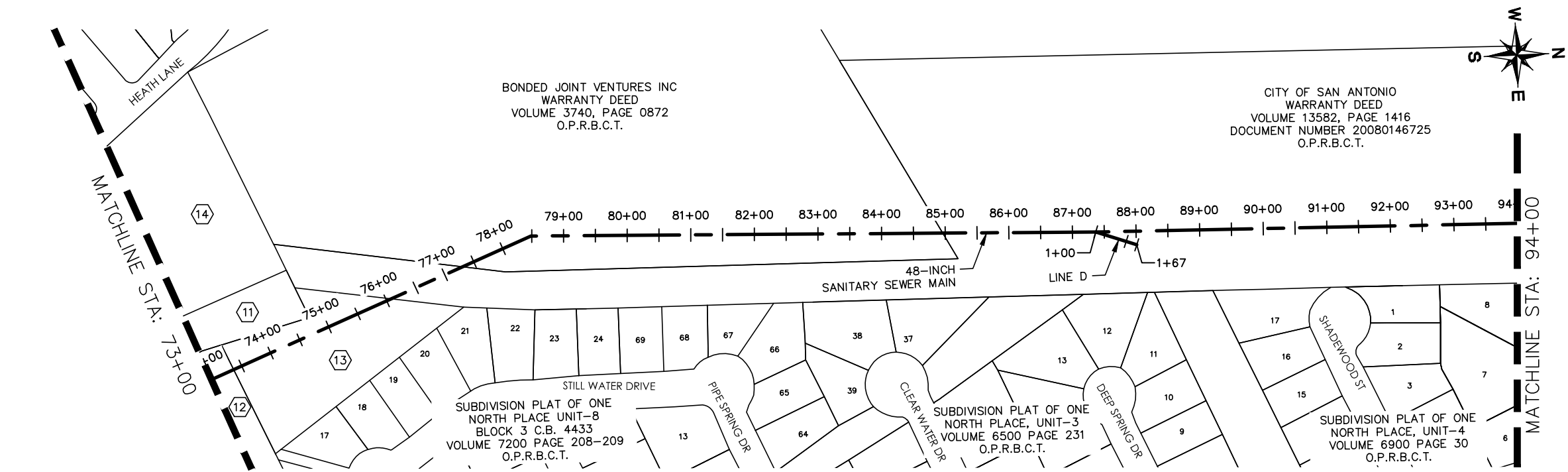
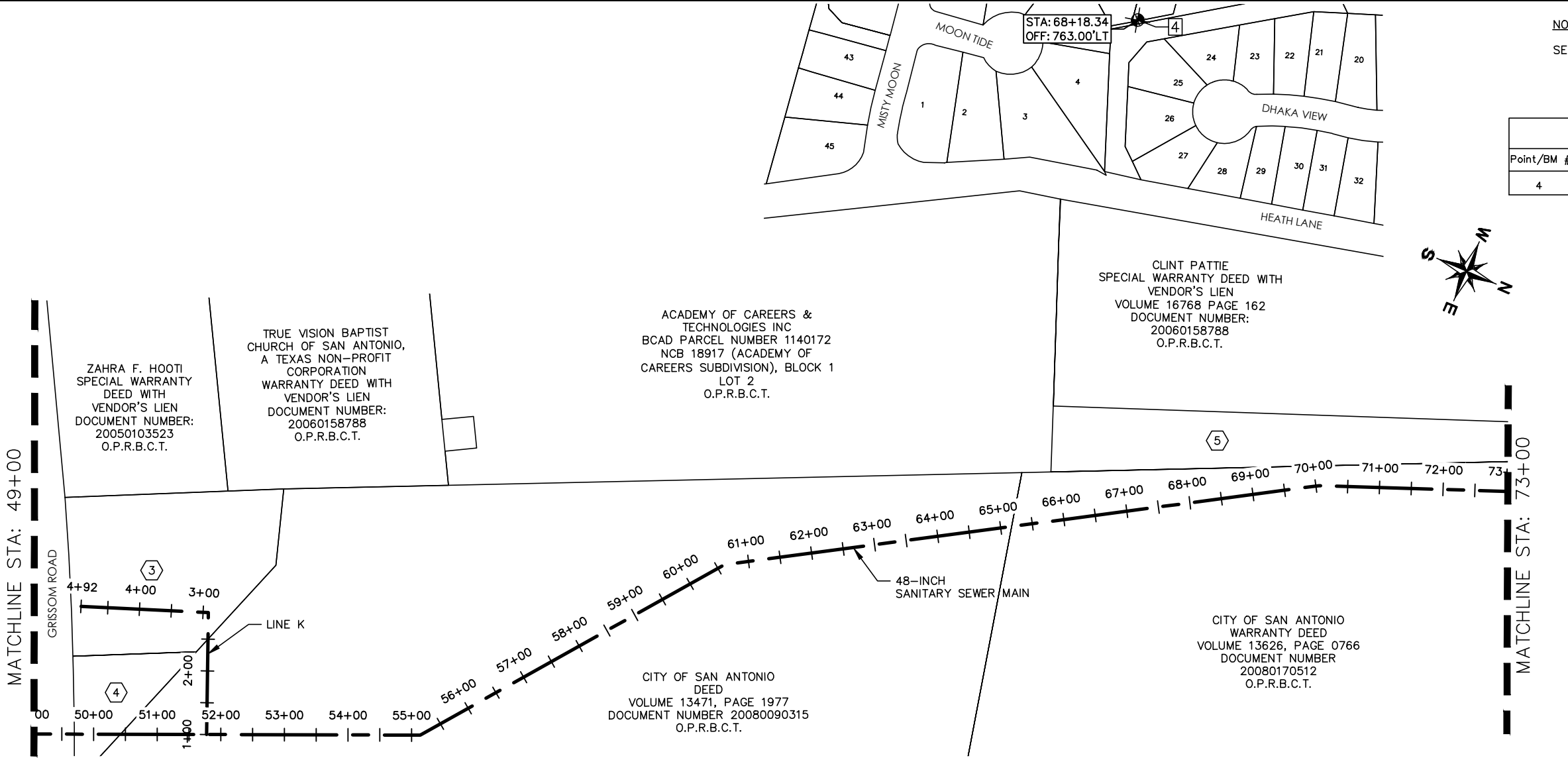
CONTROL MAP
(2 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G6
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

PLOTTED BY: DWG NAME: C:\SAWS\W9 UPPER LEON CREEK\DRAWINGS\226 SAWS W9 CONTROL MAP.DWG
V:\226 SAWS\W9 UPPER LEON CREEK\DRAWINGS\226 SAWS W9 CONTROL MAP.DWG
1/13/2024 2:22 AM
SILVIA LOPEZ 1/13/2024 2:10 PM

NOTES:
SEE SHEET G5A FOR GENERAL NOTES, KEYNOTES, AND LEGEND

BENCHMARK TABLE				
Point/BM #	Elevation	Northing	Easting	Description
4	808.30	13726634.52	2083969.69	CP4 SIP W/ PINK MTR CONTROL CAP



THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR INTERIM REVIEW ONLY. IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

STEPHANIE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024

MTR
Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
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SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

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• Planners

No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

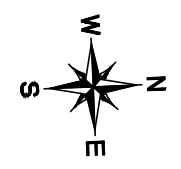
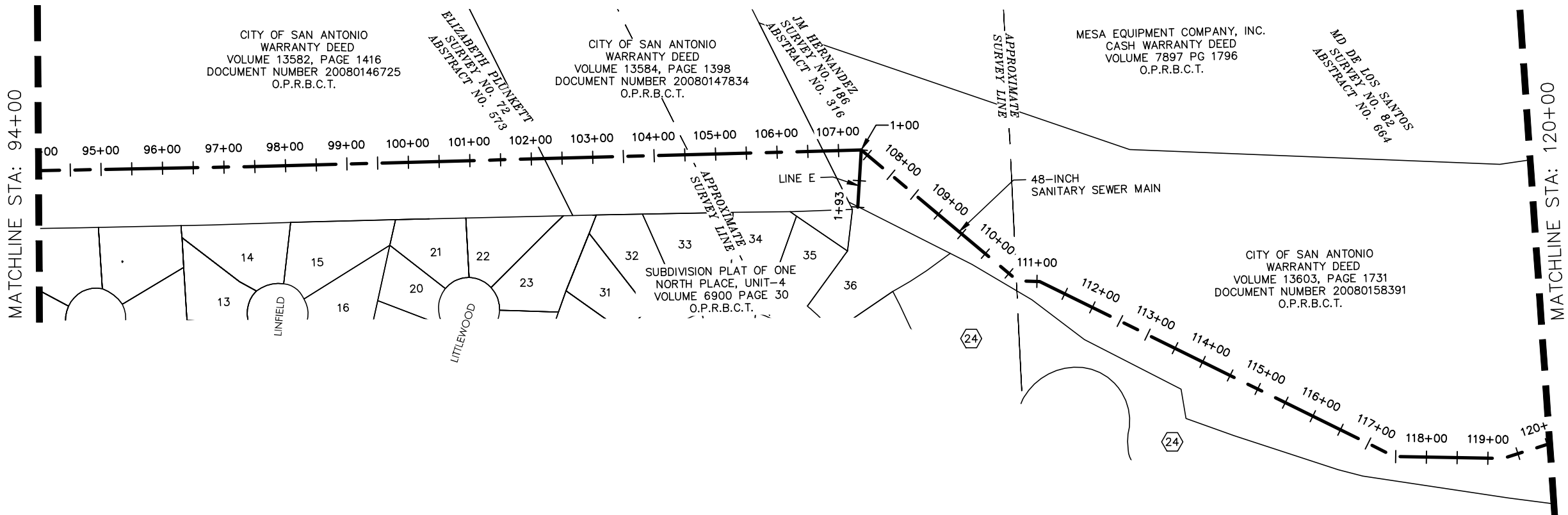
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

CONTROL MAP
(3 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G7
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

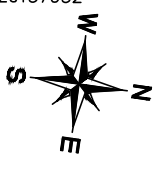
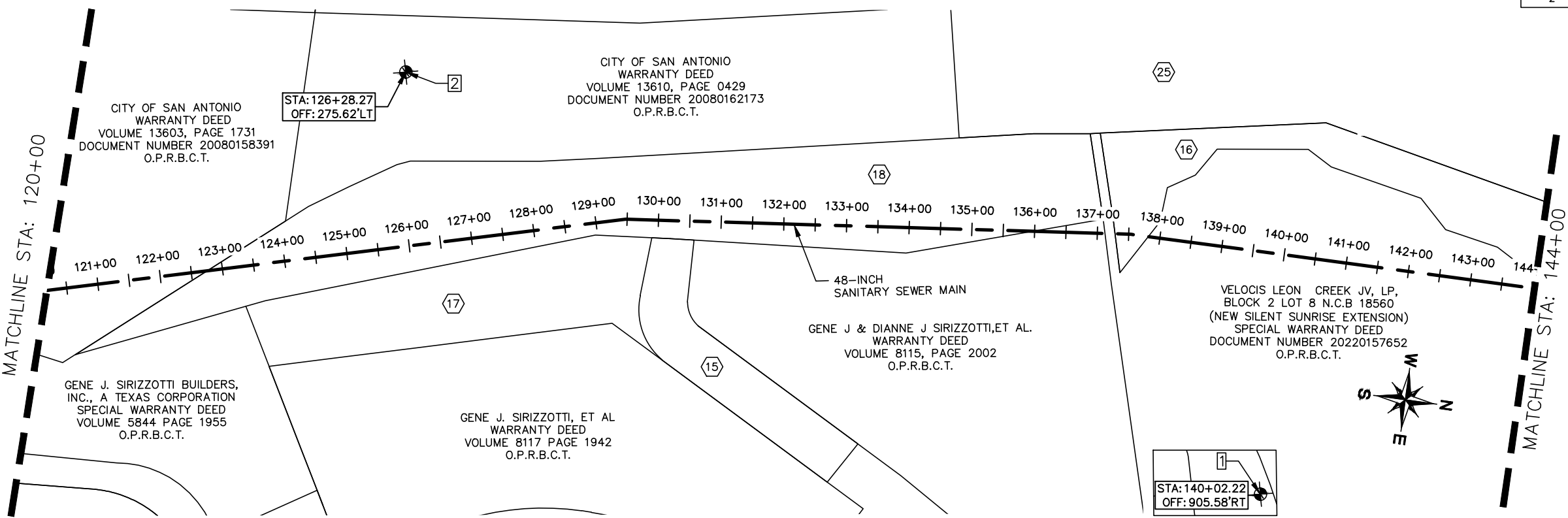
PLOTTED BY: SILVIA LOPEZ/12/26/2023 9:39 AM
DWG NAME: V:\21265 SAWS W9 UPPER LEON CREEDRAWINGS\2126 SAWS W9 CONTROL MAP.DWG
LAST SAVED: 12/26/2023 2:00 PM

NOTES:
SEE SHEET G5A FOR GENERAL NOTES, KEYNOTES, AND LEGEND



BENCHMARK TABLE				
Point/BM #	Elevation	Northing	Easting	Description
1	826.03	13733922.45	2085389.50	CP1 MAGNAIL W/ SHINER
2	825.39	13732488.93	2084388.04	CP2 SIP W/ PINK MTR CONTROL CAP

SCALE: 1"=200'



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STEPHANE L. JAMES R.P.L.S.
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Engineers
Surveyors
Planners

No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

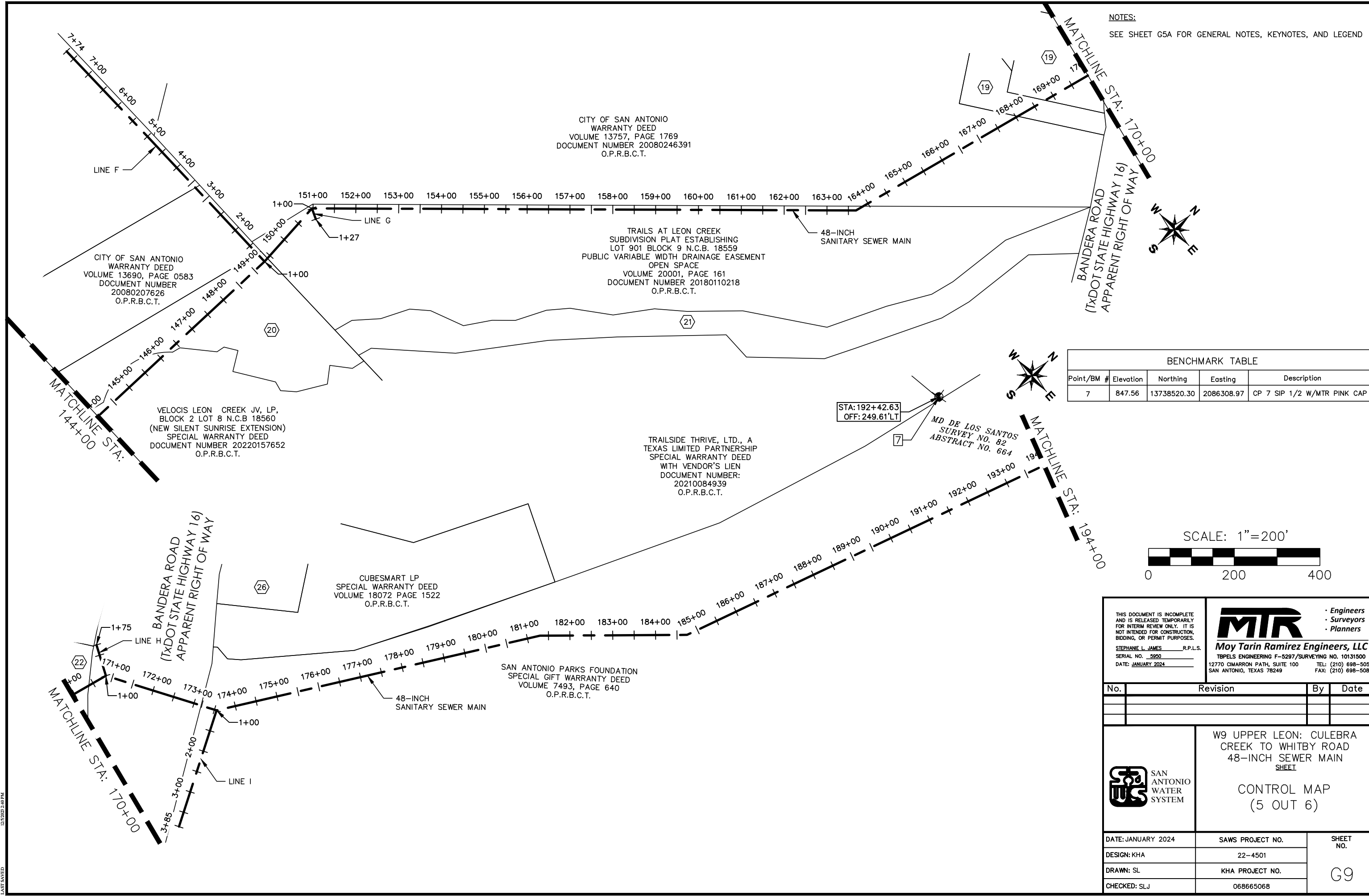
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

CONTROL MAP
(4 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G8
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

PLOTTED BY: SILVIA LOPEZ/12/26/2023 9:39 AM
V:\21265 SAWS\W9 UPPER LEON CREEK\DRAWINGS\2126 SAWS\9 CONTROL MAP.DWG
12/26/2023 2:00 PM
LAST SAVED

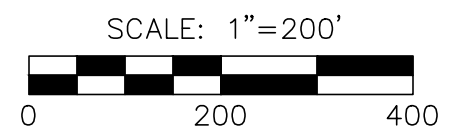
PLOTTED BY: SILVIA LOPEZ/12/26/2023 9:39 AM
 DWG NAME: V:\21263 SAWS\W9 UPPER LEON CREEK\DRAWINGS\21263 SAWS\W9 CONTROL MAP.DWG
 LAST SAVED: 12/26/2023 2:00 PM



NOTES:
 SEE SHEET G5A FOR GENERAL NOTES, KEYNOTES, AND LEGEND



BENCHMARK TABLE				
Point/BM #	Elevation	Northing	Easting	Description
7	847.56	13738520.30	2086308.97	CP 7 SIP 1/2 W/MTR PINK CAP



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STEPHANE L. JAMES R.P.L.S.
 SERIAL NO. 5950
 DATE: JANUARY 2024

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No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

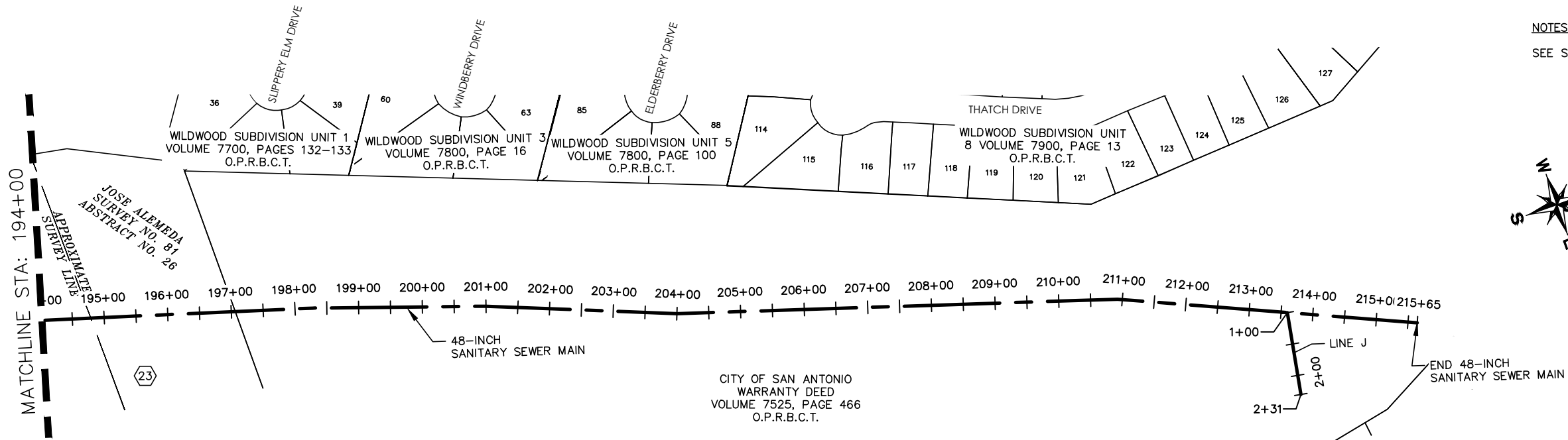
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

CONTROL MAP
(5 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G9
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

PLOTTED BY: SILVIA LOPEZ/12/26/2023 9:39 AM
 DWG NAME: V:\21263 SAWS\W9 UPPER LEON CREEK\DRAWINGS\21263 SAWS\W9 CONTROL MAP.DWG
 LAST SAVED: 12/26/2023 2:00 PM

NOTES:
SEE SHEET G5A FOR GENERAL NOTES, KEYNOTES, AND LEGEND



BENCHMARK TABLE				
Point/BM #	Elevation	Northing	Easting	Description
5	896.00	13740200.06	2088099.11	CP 5 SET MAG NAIL ON PAVEMENT
8	892.36	13740199.52	2088033.62	CP 8 SIP 1/2 W/PINK MTR CAP

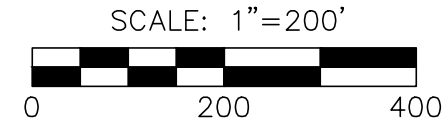
CITY OF SAN ANTONIO
LOT 19, BLOCK 2,
NEW CITY BLOCK 14675
WARRANTY DEED
VOLUME 7871, PAGE 95
O.P.R.B.C.T.

STA: 214+57.46
OFF: 830.62'RT

8

STA: 214+84.59
OFF: 890.23'RT

5



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SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

CONTROL MAP
(6 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G10
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

SILVIA LOPEZ/ 1/25/2023 1:17 PM
V:\2023\SAWS\W9 UPPER LEON CREEK\DRAWINGS\2126 SAWS\W9 STRIP MAP.DWG
1/15/2023 12:21 AM

PLOTTED BY
DWG NAME
LAST SAVED

KEY NOTES – OWNERSHIP

- 1

CITY OF SAN ANTONIO
DRAINAGE EASEMENT
WARRANTY DEED
VOLUME 0018, PAGE 3612
O.P.R.B.C.T.
- 2

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 10468, PAGE 1012
DOCUMENT NUMBER 20090127103
O.P.R.B.C.T.
- 3

CITY OF SAN ANTONIO
P–11C THRU P–11H & PT
OF P–11J AND N.C.B. 15004
WARRANTY DEED
VOLUME 14068, PAGE 0832
DOCUMENT NUMBER 20090127070
O.P.R.B.C.T.
- 4

CITY OF SAN ANTONIO
PT OF P–11J AND P–123
N.C.B. 15004
GIFT WARRANTY DEED
VOLUME 14068, PAGE 0838
DOCUMENT NUMBER 20090127071
O.P.R.B.C.T.
- 5

CITY OF SAN ANTONIO
BLOCK LOT P–17 &P–144
N.C.B 15004
(MISTY OAKS ANNEX)
WARRANTY DEED
VOLUME 13603, PAGE 1636
DOCUMENT NUMBER 20080158318
O.P.R.B.C.T.
- 6

LBT ENTERPRISES, INC.
SPECIAL WARRANTY DEED
VOLUME 7768 PAGE 1487
O.P.R.B.C.T.
- 7

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 14256 PAGE 1802
O.P.R.B.C.T.
- 8

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 14256 PAGE 1795
O.P.R.B.C.T.
- 9

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13904 PAGE 2429
O.P.R.B.C.T.
- 10

DAVID J. THOLEN
SPECIAL CASH WARRANTY DEED AND
AGREEMENT
VOLUME 7898 PAGE 1450
O.P.R.B.C.T.
- 11

CITY OF SAN ANTONIO
BLOCK LOT P–17 &P–144
N.C.B 15004
(MISTY OAKS ANNEX)
WARRANTY DEED
VOLUME 13603, PAGE 1636
DOCUMENT NUMBER 20080158318
O.P.R.B.C.T.
- 12

CITY OF SAN ANTONIO
N.C.B 15004 P–162
WARRANTY DEED
VOLUME 13626, PAGE 0766
DOCUMENT NUMBER 20080170512
O.P.R.B.C.T.
- 13

ONE NORTH PLACE UNIT–8
DRAINAGE EASEMENT
VOLUME 7200 PAGE 208–209
O.P.R.B.C.T.
- 14

CLINT PATTIE
SPECIAL WARRANTY DEED WITH
VENDOR’S LIEN
VOLUME 16768 PAGE 162
DOCUMENT NUMBER: 20060158788
O.P.R.B.C.T.
- 15

GENE J & DIANNE J SIRIZZOTTI,ET AL.
NCB 18560 P–106C (.443AC) P–106D
(.1517AC) & P–108B (.1026AC)
WARRANTY DEED
VOLUME 8115, PAGE 2002
O.P.R.B.C.T.
- 16

CITY OF SAN ANTONIO
BLOCK 2 LOT IRR W351.24 FT OF 2 N.C.B
18560
(BANDERA ECKHERT CENTER)
WARRANTY DEED
VOLUME 13965, PAGE 2146
DOCUMENT NUMBER 20090078860
O.P.R.B.C.T.
- 17

GENE J & DIANNE J SIRIZZOTTI,ET AL.
LOT P–107(2.33) P–108(0.64), & P–109(2.0)
N.C.B 18560
WARRANTY DEED
VOLUME 8115, PAGE 2002
O.P.R.B.C.T.
- 18

CITY OF SAN ANTONIO
LOT P–70 N.C.B 18560
WARRANTY DEED
VOLUME 13610, PAGE 0429
DOCUMENT NUMBER 20080162173
O.P.R.B.C.T.
- 19

OSCAR ANDRES HERNANDEZ
WARRANTY DEED WITH VENDOR’S LIEN
DOCUMENT NUMBER: 20070236620
O.P.R.B.C.T.
- 20

CITY OF SAN ANTONIO
BLOCK 2 LOT IRR W351.24 FT OF 2 N.C.B
18560
(BANDERA ECKHERT CENTER)
WARRANTY DEED
VOLUME 13965, PAGE 2146
DOCUMENT NUMBER 20090078860
O.P.R.B.C.T.
- 21

CITY OF SAN ANTONIO
BLOCK LOT P–1A (BANDERA WEST ANNEXTN)
VOLUME 14025, PAGE 749
DOCUMENT NUMBER 20090106811
O.P.R.B.C.T.
- 22

OSCAR ANDRES HERNANDEZ
WARRANTY DEED WITH VENDOR’S LIEN
DOCUMENT NUMBER: 20070236620
O.P.R.B.C.T.
- 23

CELESTE S. CAGUBCUB
DOCUMENT NUMBER 20170103032
O.P.R.B.C.T.
- 24

SAN ANTONIO PARKS FOUNDATION
SPECIAL GIFT WARRANTY DEED
VOLUME 7493, PAGE 640
O.P.R.B.C.T.
- 25

BRIAN KENLINE PARKS AND
POUNCH PARKS
DOCUMENT NUMBER 20190230758
O.P.R.B.C.T.
- 26

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 12278, PAGE 0461
DOCUMENT NUMBER 20060176208
O.P.R.B.C.T.
- 27

GENE J. SIRIZZOTTI BUILDERS, INC.
A TEXAS CORPORATION
SPECIAL WARRANTY DEED
VOLUME 5844, PAGE 1955
O.P.R.B.C.T.
- 28

CITY OF SAN ANTONIO
WARRANTY DEED
VOLUME 13690, PAGE 0583
DOCUMENT NUMBER 20080207626
O.P.R.B.C.T.
- 29

LOT 15, N.C.B. 17975
BANDERA COMMONS UNIT–3 SUBDIVISION
VOLUME 9571, PAGE 87
O.P.R.B.C.T.
- 30

M & JD PROPERTIES, LTD.
66.123 ACRES
SPECIAL WARRANTY DEED WITH VENDOR’S LIEN
VOLUME 8625, PAGE 12
O.P.R.B.C.T.

○ KEY NOTES – EXISTING EASEMENTS

- A

50’ SANITARY SEWER EASEMENT
VOLUME 6691, PAGE 833
O.P.R.B.C.T.
- B

50’ SANITARY SEWER EASEMENT
(DESIGNATED AS E–1193)
VOLUME 6629, PAGE 247
O.P.R.B.C.T.
- C

50’ SANITARY SEWER EASEMENT
VOLUME 6625, PAGE 390
O.P.R.B.C.T.
- D

20’ SANITARY SEWER EASEMENT
VOLUME 7399, PAGE 187
O.P.R.B.C.T.
- E

20’ SANITARY SEWER EASEMENT
VOLUME 7711, PAGE 777
O.P.R.B.C.T.
- F

16’ SANITARY SEWER EASEMENT
VOLUME 9558, PAGES 90–92
O.P.R.B.C.T.
- G

20’ DRAINAGE EASEMENT
VOLUME 9558, PAGES 90–92
O.P.R.B.C.T.
- H

50’ SANITARY SEWER EASEMENT
VOLUME 6615, PAGE 580
O.P.R.B.C.T.
- J

VARIABLE WIDTH SANITARY SEWER EASEMENT
VOLUME 7115, PAGE 1112
O.P.R.B.C.T.
- K

20’ SANITARY SEWER EASEMENT
VOLUME 7889, PAGE 1007
O.P.R.B.C.T.
- L

20’ SANITARY SEWER EASEMENT
VOLUME 7092, PAGE 126
O.P.R.B.C.T.
- M

20’ SANITARY SEWER EASEMENT
VOLUME 7092, PAGE 99
O.P.R.B.C.T.
- N

50’ SANITARY SEWER EASEMENT
VOLUME 6581, PAGE 969
O.P.R.B.C.T.
- P

50’ SANITARY SEWER EASEMENT
VOLUME 6605, PAGE 345
O.P.R.B.C.T.
- Q

12’ UNDERGROUND GAS, TELEPHONE AND
ELECTRIC EASEMENT
VOLUME 7200, PAGE 208
O.P.R.B.C.T.
- R

16’ TELEPHONE AND SANITARY SEWER
EASEMENT
VOLUME 6500, PAGE 231
O.P.R.B.C.T.
- S

10’ SEWER EASEMENT
VOLUME 6900, PAGES 30–33
O.P.R.B.C.T.
- T

16’ SEWER EASEMENT
VOLUME 7993, PAGE 964
O.P.R.B.C.T.
- U

DRAINAGE EASEMENT
VOLUME 6900, PAGES 30–33
O.P.R.B.C.T.
- V

10’ TELEPHONE EASEMENT
VOLUME 6900, PAGES 30–33
O.P.R.B.C.T.
- W

16’ SANITARY SEWER EASEMENT
VOLUME 7239, PAGE 515
O.P.R.B.C.T.
- X

50’ SANITARY SEWER EASEMENT
VOLUME 6649, PAGE 831
O.P.R.B.C.T.
- Y

16’ SANITARY SEWER EASEMENT
VOLUME 9511, PAGE 218
O.P.R.B.C.T.
- Z

20’ SANITARY SEWER EASEMENT
VOLUME 1103, PAGE 217
O.P.R.B.C.T.
- A1

50’ SANITARY SEWER EASEMENT
VOLUME 6649, PAGE 819
O.P.R.B.C.T.
- B1

DRAINAGE CHANNEL RIGHT OF WAY
STATE OF TEXAS
VOLUME 2617, PAGE 572
O.P.R.B.C.T.
- C1

16’ SANITARY SEWER EASEMENT
VOLUME 7500, PAGE 238
O.P.R.B.C.T.
- D1

50’ SANITARY SEWER EASEMENT
VOLUME 6743, PAGE 693
O.P.R.B.C.T.
- E1

24’ DRAINAGE EASEMENT
VOLUME 9540, PAGE 26
O.P.R.B.C.T.
- F1

50’ SANITARY SEWER EASEMENT
VOLUME 6749, PAGE 676
O.P.R.B.C.T.
- G1

15’ DRAINAGE EASEMENT
VOLUME 7900, PAGE 13
O.P.R.B.C.T.
- H1

12’ DRAINAGE EASEMENT
VOLUME 7800, PAGE 100
O.P.R.B.C.T.
- J1

13’ DRAINAGE EASEMENT
VOLUME 7800. PAGE 16
O.P.R.B.C.T.
- K1

21’ DRAINAGE EASEMENT
VOLUME 7700, PAGE 132–133
O.P.R.B.C.T.
- L1

16’ SANITARY SEWER EASEMENT
VOLUME 9400, PAGE 217
O.P.R.B.C.T.
- M1

16’ SANITARY SEWER EASEMENT
VOLUME 9551, PAGE 4
O.P.R.B.C.T.
- N1

14’ GAS, ELECTRIC, TELEPHONE, AND
CABLE TELEVISION EASEMENT
VOLUME 9541, PAGE 211
O.P.R.B.C.T.
- P1

25’ INGRESS/EGRESS EASEMENT
VOLUME 9594, PAGE 211
O.P.R.B.C.T.
- Q1

16’ ELECTRIC, TELEPHONE, AND SEWER
EASEMENT
VOLUME 6400, PAGES 167–169
O.P.R.B.C.T.
- R1

16’ SANITARY SEWER EASEMENT
VOLUME 3837, PAGE 864
O.P.R.B.C.T.
- S1

VARIABLE WIDTH DRAINAGE
RIGHT OF WAY
VOLUME 9511, PAGE 218
O.P.R.B.C.T.
- T1

78.21’ DRAINAGE EASEMENT
VOLUME 9532, PAGES 75–76
O.P.R.B.C.T.
- U1

VARIABLE WIDTH SANITARY SEWER,
WATER, GAS, ELECTRIC, TELEPHONE,
CABLE TELEVISION EASEMENT
VOLUME 9540, PAGE 26
O.P.R.B.C.T.
- V1

16’ ELECTRIC, EASEMENT
VOLUME 20001, PAGE 635
O.P.R.B.C.T.

SURVEYOR’S GENERAL NOTES:

- 1) DISTANCES AND COORDINATES ARE IN U.S. SURVEY FEET.
DISPLAYED IN SURFACE VALUES AND MAY BE CONVERTED
TO GRID BY DIVIDING BY THE COMBINED SCALE FACTOR OF
1.00017.
- 2) ALL ELEVATIONS SHOWN HERE ARE BASED ON NAVD 88
(1988 ADJ.)
- 3) THE HORIZONTAL CONTROL IS BASED ON THE TEXAS STATE
PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE,
NORTH AMERICAN DATUM NAD 83.
- 4) BASED ON A SURVEY COMPLETED IN APRIL 2023
- 5) ALL BOUNDARY LINES ARE APPROXIMATE. ANY BOUNDARY
LINES PROVIDED WITHOUT AN ACCOMPANYING SEAL AND
SIGNATURE ARE PRELIMINARY. THIS DOCUMENT WILL NOT BE
RECORDED FOR ANY PURPOSE, AND SHALL NOT BE USED
OR VIEWED OR RELIED UPON AS A FINAL BOUNDARY
SURVEY DOCUMENT.

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR INTERIM REVIEW ONLY. IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES. STEPHANE L. JAMES _____ R.P.L.S. SERIAL NO. 5950 DATE: JANUARY 2024		<div><div><div>MTR</div><div><div>Engineers</div><div>Surveyors</div><div>Planners</div></div></div><div><div>Moy Tarin Ramirez Engineers, LLC</div><div>TBPELS ENGINEERING F–5297/SURVEYING NO. 10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698–5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698–5085</div></div></div>	
No.	Revision	By	Date
<div><div><div>SA</div><div>W</div><div>C</div><div>S</div></div><div>SAN ANTONIO WATER SYSTEM</div></div>		W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48–INCH SEWER MAIN SHEET STRIP MAP (1 OUT 6)	
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.	
DESIGN: KHA	22–4501		
DRAWN: SL	KHA PROJECT NO.		
CHECKED: SLJ	068665068	G10A	

THE FOLLOWING GENERAL NOTE HAS BEEN PREPARED AND PROVIDED BY KIMLEY-HORN ON NOVEMBER 2023 :

THE CONTRACTOR WILL BE ALLOWED TO REMOVE TREES ACCORDING TO THE TREE PROTECTION PLAN. CONTRACTOR TO MARK TREES TO BE REMOVED IN THE FIELD FOR BOTH THE OWNER AND ENGINEER TO VERIFY. ONCE THE MARKED TREES HAVE BEEN VERIFIED AND APPROVED BY THE OWNER AND ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE TREE REMOVAL. FOR MORE INFORMATION ON ACCESS AND TREE REMOVAL, REFER TO GENERAL NOTES, G3-G4, ACCESS AND STAGING SHEETS, G26-G32, AND THE TREE PROTECTION SHEETS, TPA-TP41.

NOTE

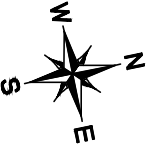
SEE SHEET G10A FOR SURVEYORS GENERAL NOTES, KEYNOTES.

LEGEND:

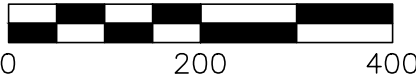
- N.C.B. NEW CITY BLOCK
- O.P.R.B.C.T. OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- TUNNEL SEGMENT

20+00 21+00 22+00 23+00

PROPOSED 48" SANITARY SEWER MAIN ALIGNMENT



SCALE: 1"=200'



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STEPHANE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024



Moy Tarin Ramirez Engineers, LLC
TPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

- Engineers
- Surveyors
- Planners

No.	Revision	By	Date



SAN ANTONIO WATER SYSTEM

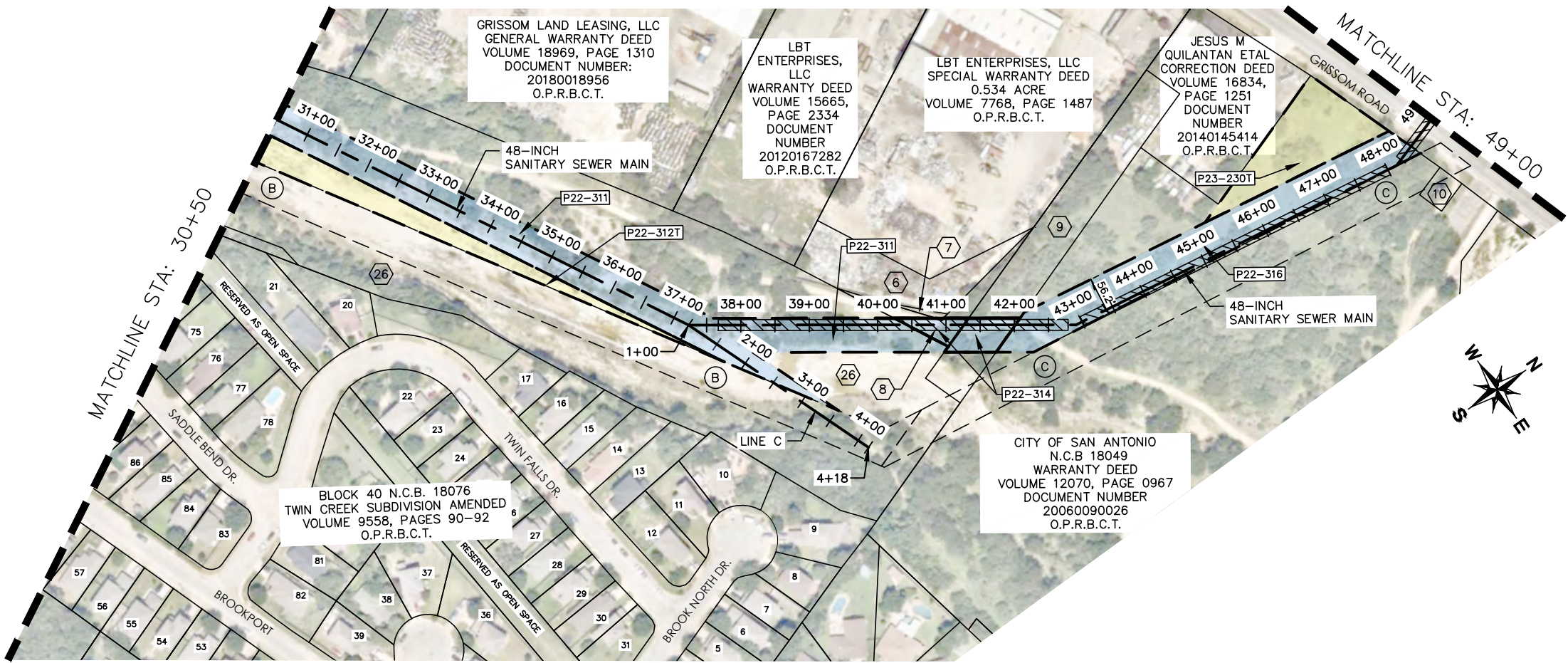
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

STRIP MAP
(2 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G11
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

SILVIA LOPEZ 1/25/2023 1:17 PM
V:\2023\SAWS\W9 UPPER LEON CREEK\DRAWINGS\206 SAWS W9 STRIP MAP.DWG
1/25/2023 12:22 AM

PLOTTED BY
DWG NAME
LAST SAVED



THE FOLLOWING GENERAL NOTE HAS BEEN PREPARED AND PROVIDED BY KIMLEY-HORN ON NOVEMBER 2023 :

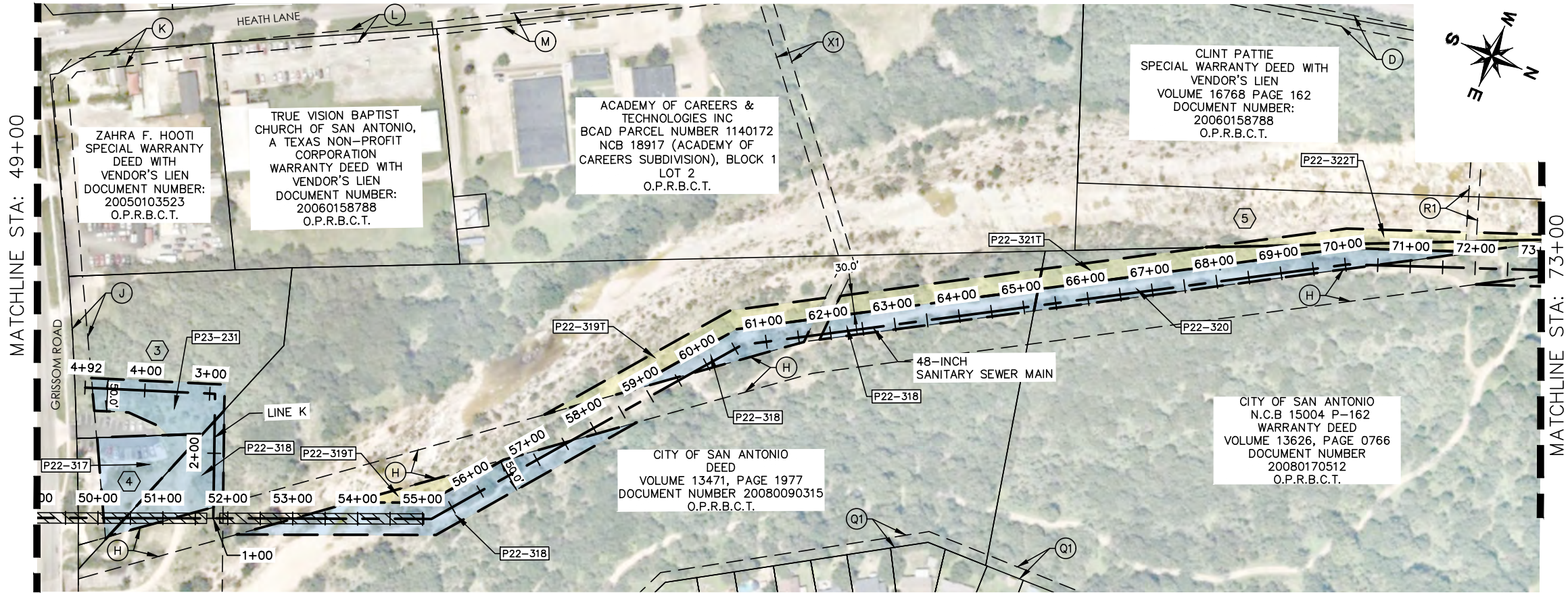
THE CONTRACTOR WILL BE ALLOWED TO REMOVE TREES ACCORDING TO THE TREE PROTECTION PLAN. CONTRACTOR TO MARK TREES TO BE REMOVED IN THE FIELD FOR BOTH THE OWNER AND ENGINEER TO VERIFY. ONCE THE MARKED TREES HAVE BEEN VERIFIED AND APPROVED BY THE OWNER AND ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE TREE REMOVAL. FOR MORE INFORMATION ON ACCESS AND TREE REMOVAL, REFER TO GENERAL NOTES, G3-G4, ACCESS AND STAGING SHEETS, G26-G32, AND THE TREE PROTECTION SHEETS, TPA-TP41.

NOTE

SEE SHEET G10A FOR SURVEYORS GENERAL NOTES, KEYNOTES.

LEGEND:

N.C.B.	NEW CITY BLOCK
O.P.R.B.C.T.	OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS
	PROPOSED PERMANENT EASEMENT
	PROPOSED TEMPORARY EASEMENT
	TUNNEL SEGMENT
	PROPOSED 48" SANITARY SEWER MAIN ALIGNMENT



SCALE: 1"=200'

<small>THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR INTERIM REVIEW ONLY. IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.</small>		MTR Moy Tarin Ramirez Engineers, LLC TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085	
No.	Revision	By	Date
		W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET STRIP MAP (3 OUT 6)	
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G12	
DESIGN: KHA	22-4501		
DRAWN: SL	KHA PROJECT NO.		
CHECKED: SLJ	068665068		

3/23/2023 2:34 PM
V:\2265\SAWS\W9 UPPER LEON CREEK\DRAWINGS\2265 W9 STRIP MAP.DWG
LAST SAVED

THE FOLLOWING GENERAL NOTE HAS BEEN PREPARED AND PROVIDED BY KIMLEY-HORN ON NOVEMBER 2023 :

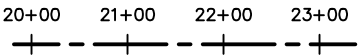
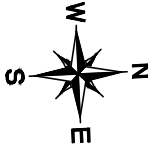
THE CONTRACTOR WILL BE ALLOWED TO REMOVE TREES ACCORDING TO THE TREE PROTECTION PLAN. CONTRACTOR TO MARK TREES TO BE REMOVED IN THE FIELD FOR BOTH THE OWNER AND ENGINEER TO VERIFY. ONCE THE MARKED TREES HAVE BEEN VERIFIED AND APPROVED BY THE OWNER AND ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE TREE REMOVAL. FOR MORE INFORMATION ON ACCESS AND TREE REMOVAL, REFER TO GENERAL NOTES, G3-G4, ACCESS AND STAGING SHEETS, G26-G32, AND THE TREE PROTECTION SHEETS, TPA-TP41.

NOTE

SEE SHEET G10A FOR SURVEYORS GENERAL NOTES, KEYNOTES.

LEGEND:

- N.C.B. NEW CITY BLOCK
- O.P.R.B.C.T. OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- TUNNEL SEGMENT



PROPOSED 48" SANITARY SEWER MAIN ALIGNMENT

SCALE: 1"=200'



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STEPHANIE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024



Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

• Engineers
• Surveyors
• Planners

No.	Revision	By	Date

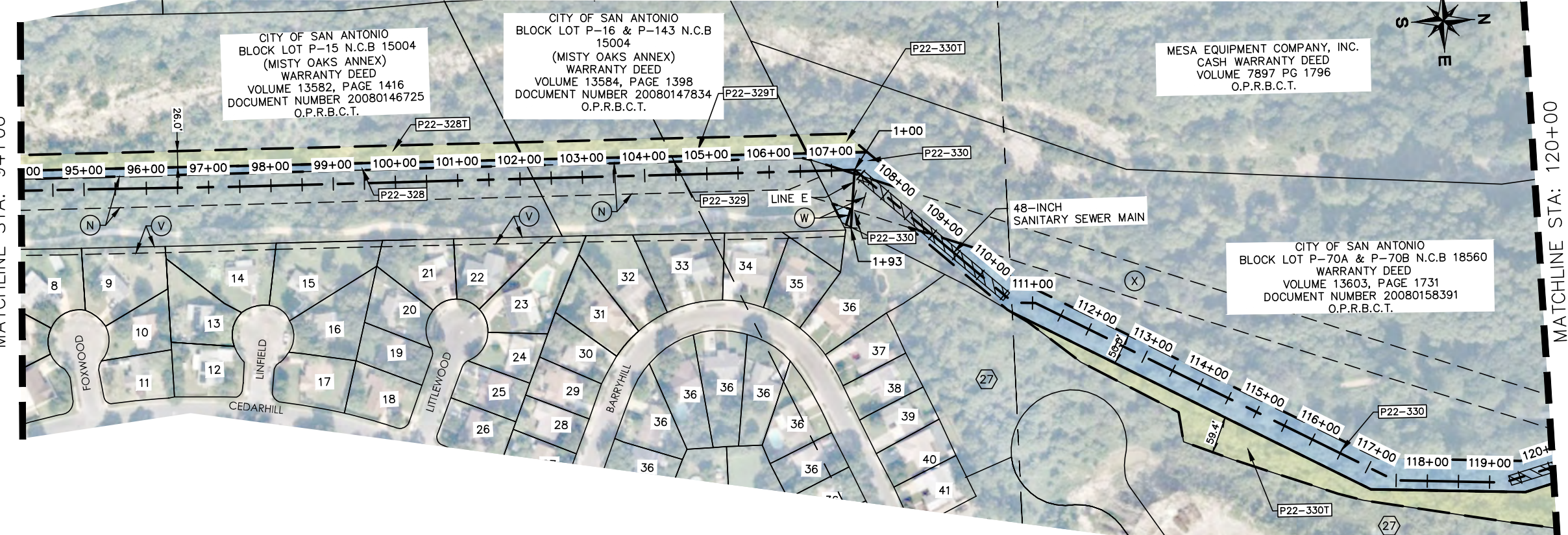
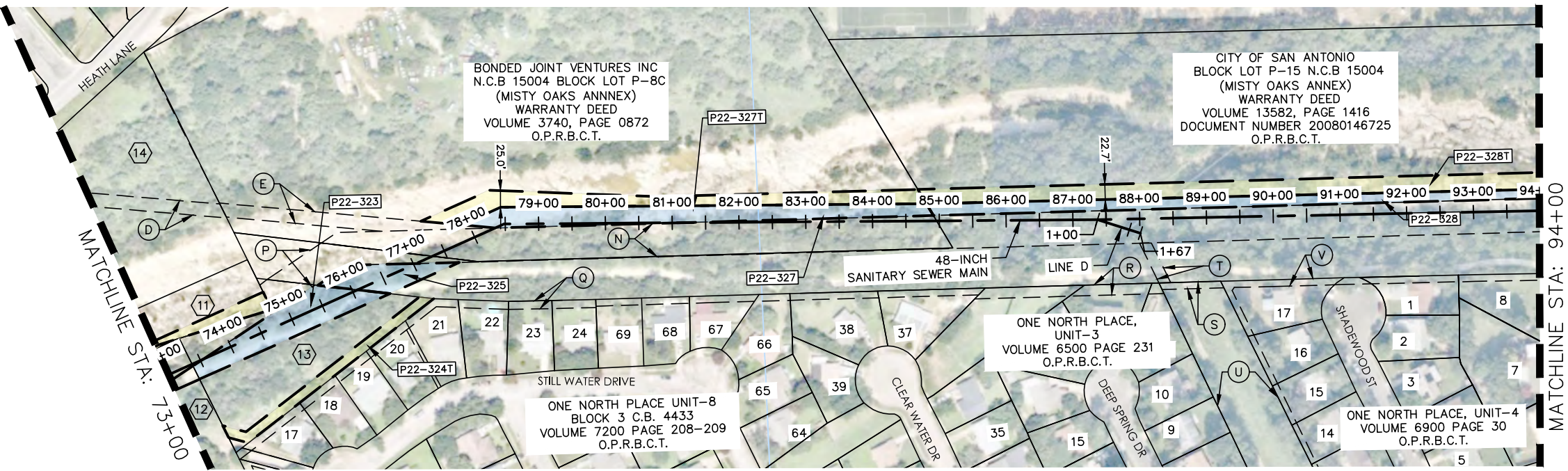


SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

STRIP MAP
(4 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G13
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	



SYLVIA LOPEZ 1/26/2023 9:45 AM
V:\2205 SAWS\W9 UPPER LEON CREEK\DRAWINGS\2205 SAWS W9 STRIP MAP.DWG
1/26/2023 2:04 PM

PLOTTED BY:
DWG NAME
LAST SAVED

THE FOLLOWING GENERAL NOTE HAS BEEN PREPARED AND PROVIDED BY KIMLEY-HORN ON NOVEMBER 2023 :

THE CONTRACTOR WILL BE ALLOWED TO REMOVE TREES ACCORDING TO THE TREE PROTECTION PLAN. CONTRACTOR TO MARK TREES TO BE REMOVED IN THE FIELD FOR BOTH THE OWNER AND ENGINEER TO VERIFY. ONCE THE MARKED TREES HAVE BEEN VERIFIED AND APPROVED BY THE OWNER AND ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE TREE REMOVAL. FOR MORE INFORMATION ON ACCESS AND STAGING REMOVAL, REFER TO GENERAL NOTES, G3-G4, ACCESS AND STAGING SHEETS, G26-G32, AND THE TREE PROTECTION SHEETS, TPA-TP41.

NOTE
SEE SHEET G10A FOR SURVEYORS
GENERAL NOTES, KEYNOTES.

- LEGEND:
- N.C.B. NEW CITY BLOCK
 - O.P.R.B.C.T. OFFICIAL PUBLIC RECORDS OF
BEXAR COUNTY, TEXAS
 - PROPOSED PERMANENT
EASEMENT
 - PROPOSED TEMPORARY
EASEMENT
 - TUNNEL SEGMENT
 - PROPOSED 48" SANITARY
SEWER MAIN ALIGNMENT

SCALE: 1"=200'



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STEPHANE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024

MTR
Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051
SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

• Engineers
• Surveyors
• Planners

No.	Revision	By	Date



W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

STRIP MAP
(5 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G14
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	

PLOTTED BY: SILVIA LOPEZ 1/25/2024 1:17 PM
V:\22063\SAWS\W9 UPPER LEON CREEK\DRAWINGS\22063\W9 STRIP MAP.DWG
1/25/2024 1:22 AM

DWG NAME: W9 STRIP MAP
LAST SAVED:

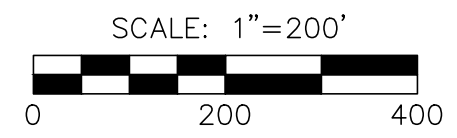
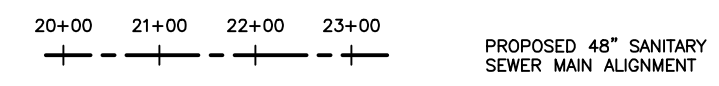
THE FOLLOWING GENERAL NOTE HAS BEEN PREPARED AND PROVIDED BY KIMLEY-HORN ON NOVEMBER 2023 :

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NOTE
SEE SHEET G10A FOR SURVEYORS
GENERAL NOTES, KEYNOTES.



- LEGEND:
- N.C.B. NEW CITY BLOCK
 - O.P.R.B.C.T. OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS
 - PROPOSED PERMANENT EASEMENT
 - PROPOSED TEMPORARY EASEMENT
 - TUNNEL SEGMENT



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STEPHANE L. JAMES R.P.L.S.
SERIAL NO. 5950
DATE: JANUARY 2024

MTR
Moy Tarin Ramirez Engineers, LLC
TBPELS ENGINEERING F-5297/SURVEYING NO. 10131500
12770 CHARRON PATH, SUITE 100
SAN ANTONIO, TEXAS 78249
TEL: (210) 698-5051
FAX: (210) 698-5085

• Engineers
• Surveyors
• Planners

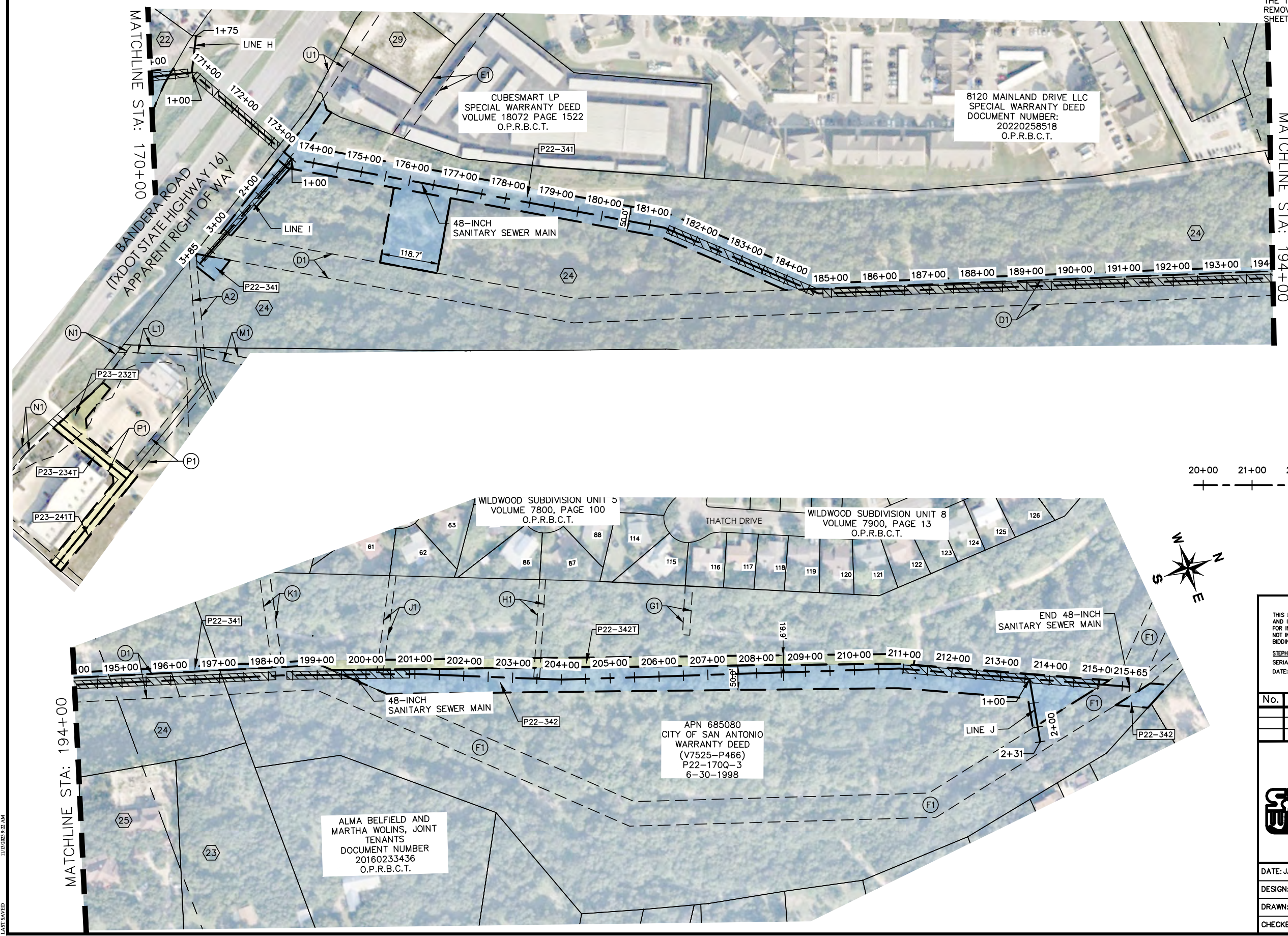
No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

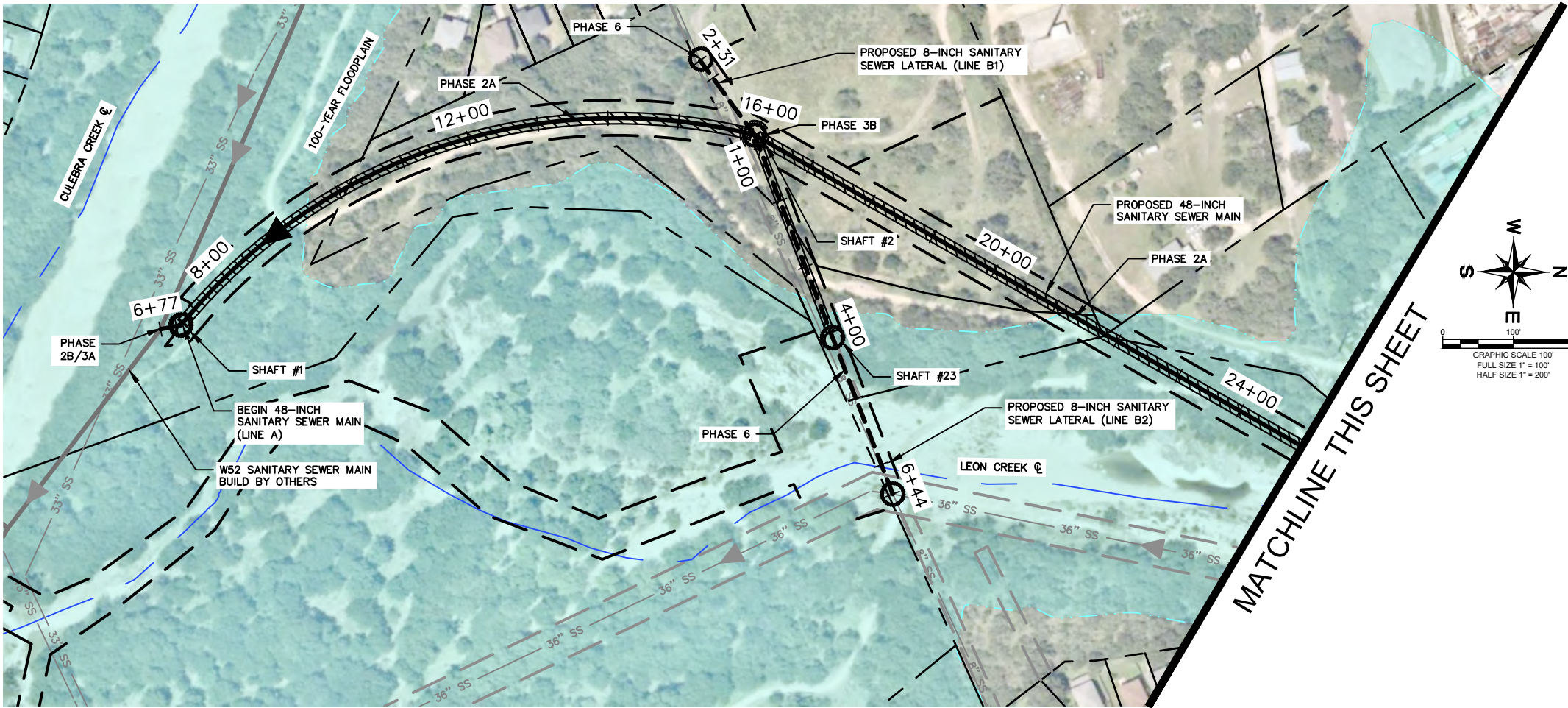
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

STRIP MAP
(6 OUT 6)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G15
DESIGN: KHA	22-4501	
DRAWN: SL	KHA PROJECT NO.	
CHECKED: SLJ	068665068	



PLOTTED BY: SILVIA LOPEZ/1/25/2023 1:18 PM
DWG NAME: W9 UPPER LEON CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN STRIP MAP.DWG
LAST SAVED: 1/15/2023 12:22 AM



SUGGESTED CONSTRUCTION SEQUENCING NOTES

SEQUENCE OF CONSTRUCTION SHALL BE DONE IN A MANNER THAT ELIMINATES THE NEED FOR A LONG TERM BYPASS PUMPING OPERATION. SEQUENCING OF CONSTRUCTION OF THE PROPOSED 48-INCH SEWER MAIN IS INTENDED TO BE AS FOLLOWS:

PHASE 1: CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND BEGIN COORDINATION WITH THE ENTITIES AND OWNERS. THIS INCLUDES COORDINATION ENGINEER/SAWS REGARDING COSA PARK TRAIL CLOSURES, ANY REQUIRED POLE BRACING, AND COORDINATION WITH ADJACENT CONTRACTORS COMPLETING CONSTRUCTION FOR W52, SAWS JOB NO. #22-4502.

PHASE 1A: CONTRACTOR SHALL CLEAR ALL CONSTRUCTION AREAS AS PER THE CONTRACTOR ACCESS PLAN, THE TREE PROTECTION PLAN, AND THE SPECIAL CONDITIONS.

PHASE 2: CONTRACTOR SHALL BEGIN CONSTRUCTION OF 48-INCH SEWER MAIN (LINE A) BEGINNING AT STA. 07+06.74 AND CONSTRUCT THE SEWER UPSTREAM TO STA. 215+63.97

PHASE 2A (TO OCCUR SIMULTANEOUSLY WITH PHASE 2): BEGIN TUNNEL SEGMENTS FOR 48-INCH SEWER MAIN AT LOCATIONS DEEMED MOST ADVANTAGEOUS FOR THE SCHEDULE OF THE CONTRACTOR.

PHASE 2B (TO OCCUR SIMULTANEOUSLY WITH PHASE 2/2A): CONTRACTOR SHALL BYPASS WITH PVC PIPE (BURIED) (NSPI), SEE SHEET C67, THE FOLLOWING EXISTING SEWER MAIN PRIOR TO THE INSTALLATION OF THEIR RESPECTIVE UPSTREAM MANHOLE. ALL MANHOLES MENTIONED BELOW MUST BE TESTED AND APPROVED, BEFORE PHASE 2C AND 3.

PHASE 2B-1: EXISTING 8-INCH TO INSTALL MH 30 AT STA. 198+27.71 (SEE SHEET C49)

PHASE 2B-2: EXISTING 8-INCH TO INSTALL MH 26 AT STA. 173+21.81 (SEE SHEET C42)

PHASE 2B-3: EXISTING 8-INCH TO INSTALL MH 22 AT STA. 149+31.23 (SEE SHEET C36)

PHASE 2B-4: EXISTING 8-INCH TO INSTALL MH 20 AT STA. 129+48.11 (SEE SHEET C31)

PHASE 2B-5: EXISTING 12-INCH TO INSTALL MH 05 AT STA. 31+40.91 (SEE SHEET C7)

PHASE 2C: CONTRACTOR SHALL CONSTRUCT OPEN CUT SEGMENT FROM STA. 6+77 TO STA. 7+06.72 ONCE THE W52 CONTRACTOR HAS INSTALLED AND TESTED THEIR MANHOLE.

PHASE 3: CONTRACTOR SHALL CONSTRUCT, TEST, AND APPROVE THE 48-INCH SEWER MAIN. ONCE IT HAS BEEN APPROVED CONTRACTOR SHALL:

PHASE 3A: TIE IN W52 AND W9 - CONTRACTOR TO VERIFY COMPLETION AND ACCEPTANCE OF THE W52 PROJECT BEFORE TRANSFERRING FLOWS

PHASE 3B: CONTRACTOR SHALL PLUG THE STUB-OUTS TO ALL PROPOSED LATERAL LINES AT THE FOLLOWING MANHOLES: 2, 6, 9, 14, 16, 22, 23, 25, AND 27

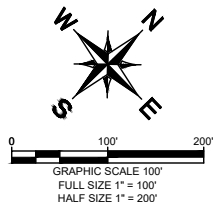
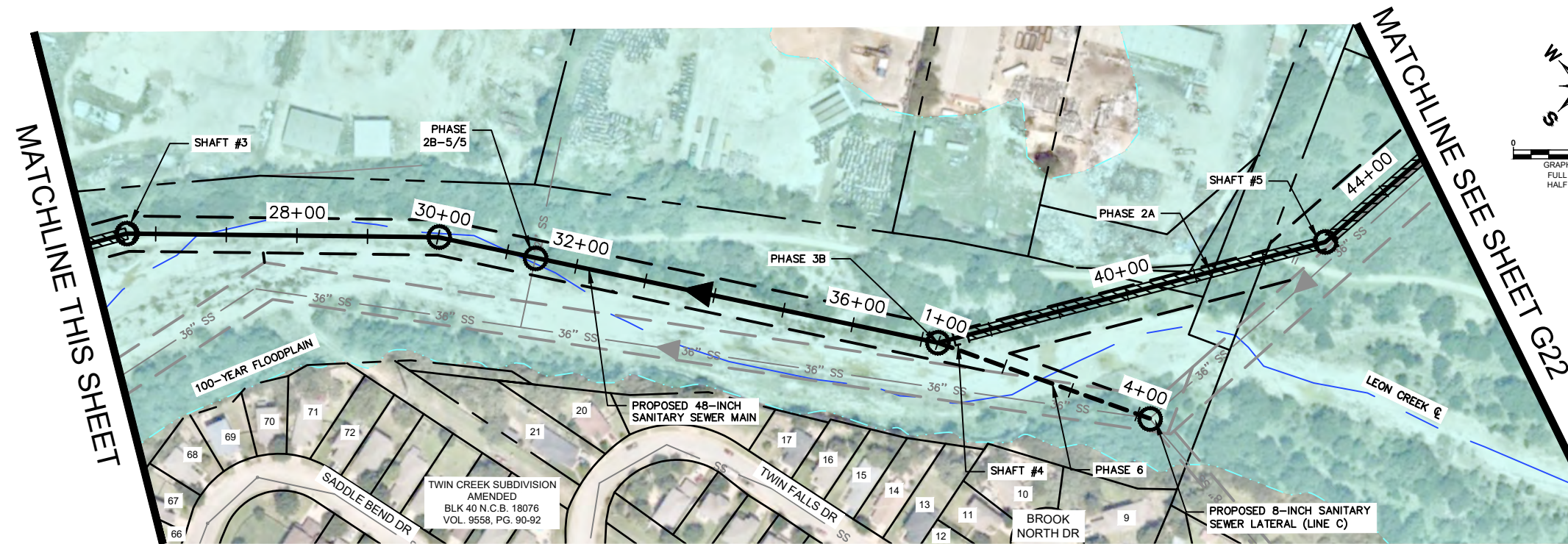
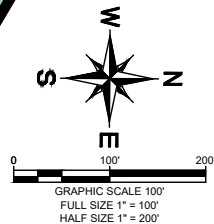
PHASE 3C: INSTALL MH 33 AT STA. 213+59.17 AND PLUG THE STUB-OUT TO LATERAL LINE J.

PHASE 4: CONTRACTOR SHALL BYPASS EXISTING 33-INCH AND 12-INCH SEWER MAIN (LINE A) AND CONNECT PROPOSED 48-INCH TO PROPOSED MH 34 (SEE SHEET C53)

PHASE 5: CONTRACTOR SHALL REMOVE ALL PVC PIPE BYPASSES AND TRANSFER FLOW TO THE PROPOSED 48-INCH.

PHASE 6: CONTRACTOR SHALL CONSTRUCT LATERAL LINES J-D, K, AND C-B1 FROM UPSTREAM TO DOWNSTREAM ALONG LINE A. ONCE EACH LINE HAS BEEN TESTED AND APPROVED CONTRACTOR SHALL BYPASS OR INSTALL TEMPORARY REROUTE AS SPECIFIED IN THE PLANS, REMOVE PLUGS FROM STUB-OUTS, INSTALL UPSTREAM LATERAL MANHOLES, AND CONNECT TO EACH OF THEIR RESPECTIVE SEWER MAIN CONNECTION.

PHASE 7: ONCE ALL FLOWS HAVE BEEN CONFIRMED TO BE TRANSFERRED FROM THE SEWER MAIN EXISTING FLOWS, CONTRACTOR SHALL TELEWISE ALL SPECIFIC SEWER LINES (SEE ABANDONMENT PLAN G32-A-G43) TO BE ABANDONED PRIOR TO ABANDONMENT.



LEGEND

	TUNNEL
	PROPOSED LINE A SEWER MAIN
	PROPOSED LINE B-K SANITARY SEWER LATERALS
	100-YEAR FLOODPLAIN
	CREEK

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

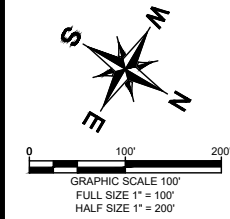
No.	Revision	By	Date



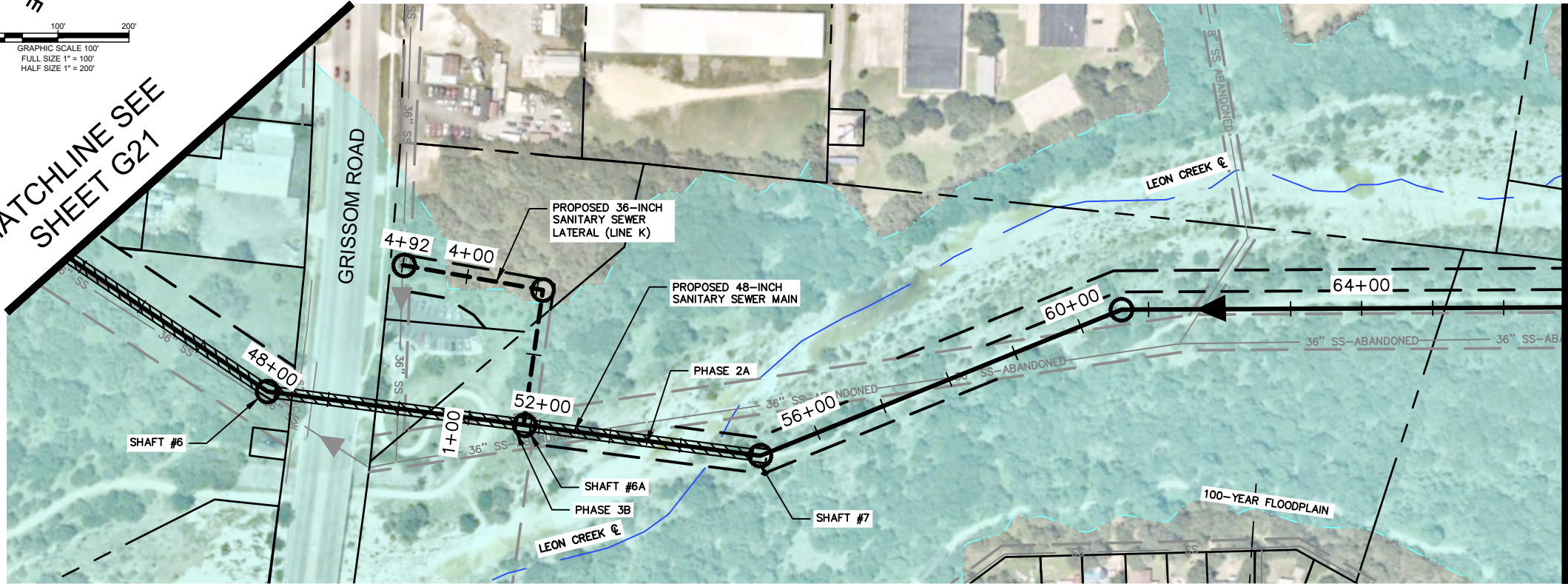
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN

SUGGESTED CONSTRUCTION SEQUENCING (SHEET 1 OF 5)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	G21
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



MATCHLINE SEE
SHEET G21



MATCHLINE THIS SHEET

SUGGESTED CONSTRUCTION SEQUENCING NOTES

SEQUENCE OF CONSTRUCTION SHALL BE DONE IN A MANNER THAT ELIMINATES THE NEED FOR A LONG TERM BYPASS PUMPING OPERATION, SEQUENCING OF CONSTRUCTION OF THE PROPOSED 48-INCH SEWER MAIN IS INTENDED TO BE AS FOLLOWS:

PHASE 1: CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND BEGIN COORDINATION WITH THE ENTITIES AND OWNERS. THIS INCLUDES COORDINATION ENGINEER/SAWS REGARDING COSA PARK TRAIL CLOSURES, ANY REQUIRED POLE BRACING, AND COORDINATION WITH ADJACENT CONTRACTORS COMPLETING CONSTRUCTION FOR W52, SAWS JOB NO. #22-4502.

PHASE 1A: CONTRACTOR SHALL CLEAR ALL CONSTRUCTION AREAS AS PER THE CONTRACTOR ACCESS PLAN, THE TREE PROTECTION PLAN, AND THE SPECIAL CONDITIONS.

PHASE 2: CONTRACTOR SHALL BEGIN CONSTRUCTION OF 48-INCH SEWER MAIN (LINE A) BEGINNING AT STA. 07+06.74 AND CONSTRUCT THE SEWER UPSTREAM TO STA. 215+63.97

PHASE 2A (TO OCCUR SIMULTANEOUSLY WITH PHASE 2): BEGIN TUNNEL SEGMENTS FOR 48-INCH SEWER MAIN AT LOCATIONS DEEMED MOST ADVANTAGEOUS FOR THE SCHEDULE OF THE CONTRACTOR.

PHASE 2B (TO OCCUR SIMULTANEOUSLY WITH PHASE 2/2A): CONTRACTOR SHALL BYPASS WITH PVC PIPE (BURIED) (NSPI), SEE SHEET C67, THE FOLLOWING EXISTING SEWER MAIN PRIOR TO THE INSTALLATION OF THEIR RESPECTIVE UPSTREAM MANHOLE. ALL MANHOLES MENTIONED BELOW MUST BE TESTED AND APPROVED, BEFORE PHASE 2C AND 3.

PHASE 2B-1: EXISTING 8-INCH TO INSTALL MH 30 AT STA. 198+27.71 (SEE SHEET C49)

PHASE 2B-2: EXISTING 8-INCH TO INSTALL MH 26 AT STA. 173+21.81 (SEE SHEET C42)

PHASE 2B-3: EXISTING 8-INCH TO INSTALL MH 22 AT STA. 149+31.23 (SEE SHEET C36)

PHASE 2B-4: EXISTING 8-INCH TO INSTALL MH 20 AT STA. 129+48.11 (SEE SHEET C31)

PHASE 2B-5: EXISTING 12-INCH TO INSTALL MH 05 AT STA. 31+40.91 (SEE SHEET C7)

PHASE 2C: CONTRACTOR SHALL CONSTRUCT OPEN CUT SEGMENT FROM STA. 6+77 TO STA. 7+06.72 ONCE THE W52 CONTRACTOR HAS INSTALLED AND TESTED THEIR MANHOLE.

PHASE 3: CONTRACTOR SHALL CONSTRUCT, TEST, AND APPROVE THE 48-INCH SEWER MAIN. ONCE IT HAS BEEN APPROVED CONTRACTOR SHALL:

PHASE 3A: TIE IN W52 AND W9 - CONTRACTOR TO VERIFY COMPLETION AND ACCEPTANCE OF THE W52 PROJECT BEFORE TRANSFERRING FLOWS

PHASE 3B: CONTRACTOR SHALL PLUG THE STUB-OUTS TO ALL PROPOSED LATERAL LINES AT THE FOLLOWING MANHOLES: 2, 6, 9, 14, 16, 22, 23, 25, AND 27

PHASE 3C: INSTALL MH 33 AT STA. 213+59.17 AND PLUG THE STUB-OUT TO LATERAL LINE J.

PHASE 4: CONTRACTOR SHALL BYPASS EXISTING 33-INCH AND 12-INCH SEWER MAIN (LINE A) AND CONNECT PROPOSED 48-INCH TO PROPOSED MH 34 (SEE SHEET C53)

PHASE 5: CONTRACTOR SHALL REMOVE ALL PVC PIPE BYPASSES AND TRANSFER FLOW TO THE PROPOSED 48-INCH.

PHASE 6: CONTRACTOR SHALL CONSTRUCT LATERAL LINES J-D, K, AND C-B1 FROM UPSTREAM TO DOWNSTREAM ALONG LINE A. ONCE EACH LINE HAS BEEN TESTED AND APPROVED CONTRACTOR SHALL BYPASS OR INSTALL TEMPORARY REROUTE AS SPECIFIED IN THE PLANS, REMOVE PLUGS FROM STUB-OUTS, INSTALL UPSTREAM LATERAL MANHOLES, AND CONNECT TO EACH OF THEIR RESPECTIVE SEWER MAIN CONNECTION.

PHASE 7: ONCE ALL FLOWS HAVE BEEN CONFIRMED TO BE TRANSFERRED FROM THE SEWER MAIN EXISTING FLOWS, CONTRACTOR SHALL TELEWISE ALL SPECIFIC SEWER LINES (SEE ABANDONMENT PLAN G32-A-G43) TO BE ABANDONED PRIOR TO ABANDONMENT.

LEGEND

	TUNNEL
	PROPOSED LINE A SEWER MAIN
	PROPOSED LINE B-K SANITARY SEWER LATERALS
	100-YEAR FLOODPLAIN
	CREEK

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

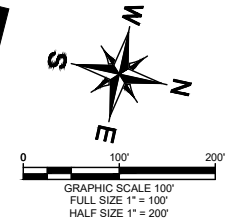
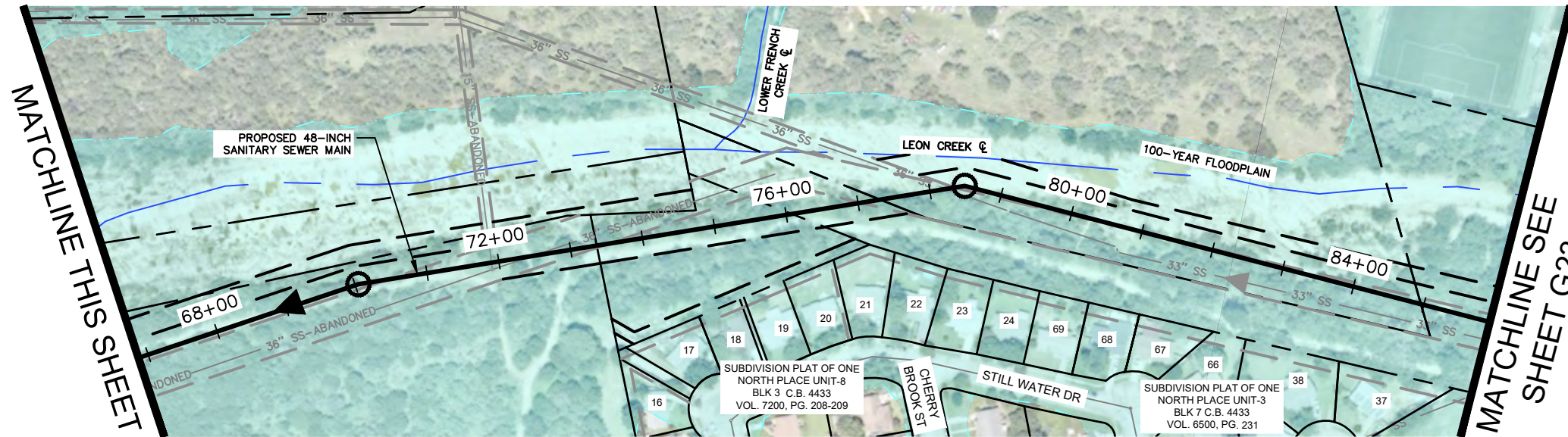
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET
SUGGESTED
CONSTRUCTION
SEQUENCING
(SHEET 2 OF 5)

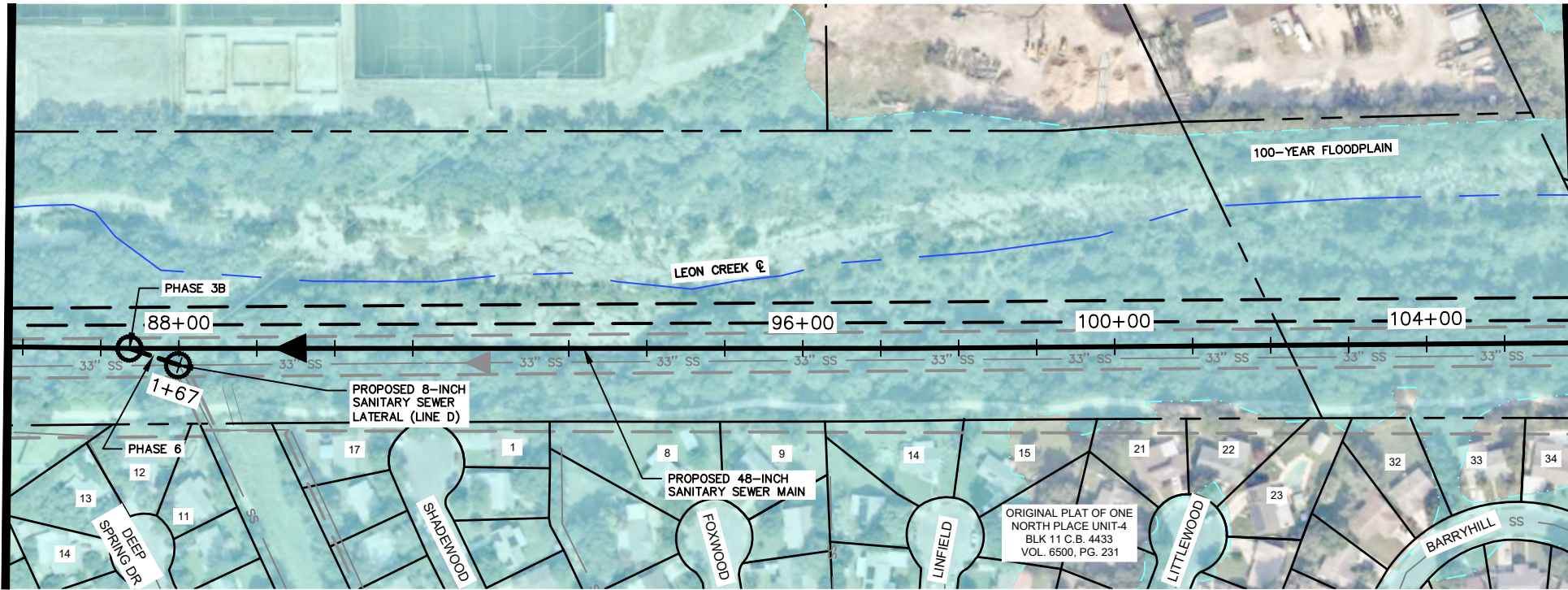
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. G22
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



MATCHLINE THIS SHEET

MATCHLINE SEE
SHEET G23

MATCHLINE SEE SHEET G22



MATCHLINE THIS SHEET

SUGGESTED CONSTRUCTION SEQUENCING NOTES

SEQUENCE OF CONSTRUCTION SHALL BE DONE IN A MANNER THAT ELIMINATES THE NEED FOR A LONG TERM BYPASS PUMPING OPERATION. SEQUENCING OF CONSTRUCTION OF THE PROPOSED 48-INCH SEWER MAIN IS INTENDED TO BE AS FOLLOWS:

PHASE 1: CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND BEGIN COORDINATION WITH THE ENTITIES AND OWNERS. THIS INCLUDES COORDINATION ENGINEER/SAWS REGARDING COSA PARK TRAIL CLOSURES, ANY REQUIRED POLE BRACING, AND COORDINATION WITH ADJACENT CONTRACTORS COMPLETING CONSTRUCTION FOR W52, SAWS JOB NO. #22-4502.

PHASE 1A: CONTRACTOR SHALL CLEAR ALL CONSTRUCTION AREAS AS PER THE CONTRACTOR ACCESS PLAN, THE TREE PROTECTION PLAN, AND THE SPECIAL CONDITIONS.

PHASE 2: CONTRACTOR SHALL BEGIN CONSTRUCTION OF 48-INCH SEWER MAIN (LINE A) BEGINNING AT STA. 07+06.74 AND CONSTRUCT THE SEWER UPSTREAM TO STA. 215+63.97

PHASE 2A (TO OCCUR SIMULTANEOUSLY WITH PHASE 2): BEGIN TUNNEL SEGMENTS FOR 48-INCH SEWER MAIN AT LOCATIONS DEEMED MOST ADVANTAGEOUS FOR THE SCHEDULE OF THE CONTRACTOR.

PHASE 2B (TO OCCUR SIMULTANEOUSLY WITH PHASE 2/2A): CONTRACTOR SHALL BYPASS WITH PVC PIPE (BURIED) (NSPI), SEE SHEET C67, THE FOLLOWING EXISTING SEWER MAIN PRIOR TO THE INSTALLATION OF THEIR RESPECTIVE UPSTREAM MANHOLE. ALL MANHOLES MENTIONED BELOW MUST BE TESTED AND APPROVED, BEFORE PHASE 2C AND 3.

PHASE 2B-1: EXISTING 8-INCH TO INSTALL MH 30 AT STA. 198+27.71 (SEE SHEET C49)

PHASE 2B-2: EXISTING 8-INCH TO INSTALL MH 26 AT STA. 173+21.81 (SEE SHEET C42)

PHASE 2B-3: EXISTING 8-INCH TO INSTALL MH 22 AT STA. 149+31.23 (SEE SHEET C36)

PHASE 2B-4: EXISTING 8-INCH TO INSTALL MH 20 AT STA. 129+48.11 (SEE SHEET C31)

PHASE 2B-5: EXISTING 12-INCH TO INSTALL MH 05 AT STA. 31+40.91 (SEE SHEET C7)

PHASE 2C: CONTRACTOR SHALL CONSTRUCT OPEN CUT SEGMENT FROM STA. 6+77 TO STA. 7+06.72 ONCE THE W52 CONTRACTOR HAS INSTALLED AND TESTED THEIR MANHOLE.

PHASE 3: CONTRACTOR SHALL CONSTRUCT, TEST, AND APPROVE THE 48-INCH SEWER MAIN. ONCE IT HAS BEEN APPROVED CONTRACTOR SHALL:

PHASE 3A: TIE IN W52 AND W9 - CONTRACTOR TO VERIFY COMPLETION AND ACCEPTANCE OF THE W52 PROJECT BEFORE TRANSFERRING FLOWS

PHASE 3B: CONTRACTOR SHALL PLUG THE STUB-OUTS TO ALL PROPOSED LATERAL LINES AT THE FOLLOWING MANHOLES: 2, 6, 9, 14, 16, 22, 23, 25, AND 27

PHASE 3C: INSTALL MH 33 AT STA. 213+59.17 AND PLUG THE STUB-OUT TO LATERAL LINE J.

PHASE 4: CONTRACTOR SHALL BYPASS EXISTING 33-INCH AND 12-INCH SEWER MAIN (LINE A) AND CONNECT PROPOSED 48-INCH TO PROPOSED MH 34 (SEE SHEET C53)

PHASE 5: CONTRACTOR SHALL REMOVE ALL PVC PIPE BYPASSES AND TRANSFER FLOW TO THE PROPOSED 48-INCH.

PHASE 6: CONTRACTOR SHALL CONSTRUCT LATERAL LINES J-D, K, AND C-B1 FROM UPSTREAM TO DOWNSTREAM ALONG LINE A. ONCE EACH LINE HAS BEEN TESTED AND APPROVED CONTRACTOR SHALL BYPASS OR INSTALL TEMPORARY REROUTE AS SPECIFIED IN THE PLANS, REMOVE PLUGS FROM STUB-OUTS, INSTALL UPSTREAM LATERAL MANHOLES, AND CONNECT TO EACH OF THEIR RESPECTIVE SEWER MAIN CONNECTION.

PHASE 7: ONCE ALL FLOWS HAVE BEEN CONFIRMED TO BE TRANSFERRED FROM THE SEWER MAIN EXISTING FLOWS, CONTRACTOR SHALL TELEWISE ALL SPECIFIC SEWER LINES (SEE ABANDONMENT PLAN G32-A-G43) TO BE ABANDONED PRIOR TO ABANDONMENT.

LEGEND

	TUNNEL
	PROPOSED LINE A SEWER MAIN
	PROPOSED LINE B-K SANITARY SEWER LATERALS
	100-YEAR FLOODPLAIN
	CREEK CL

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

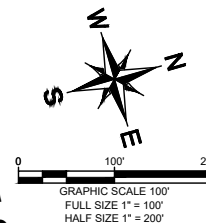
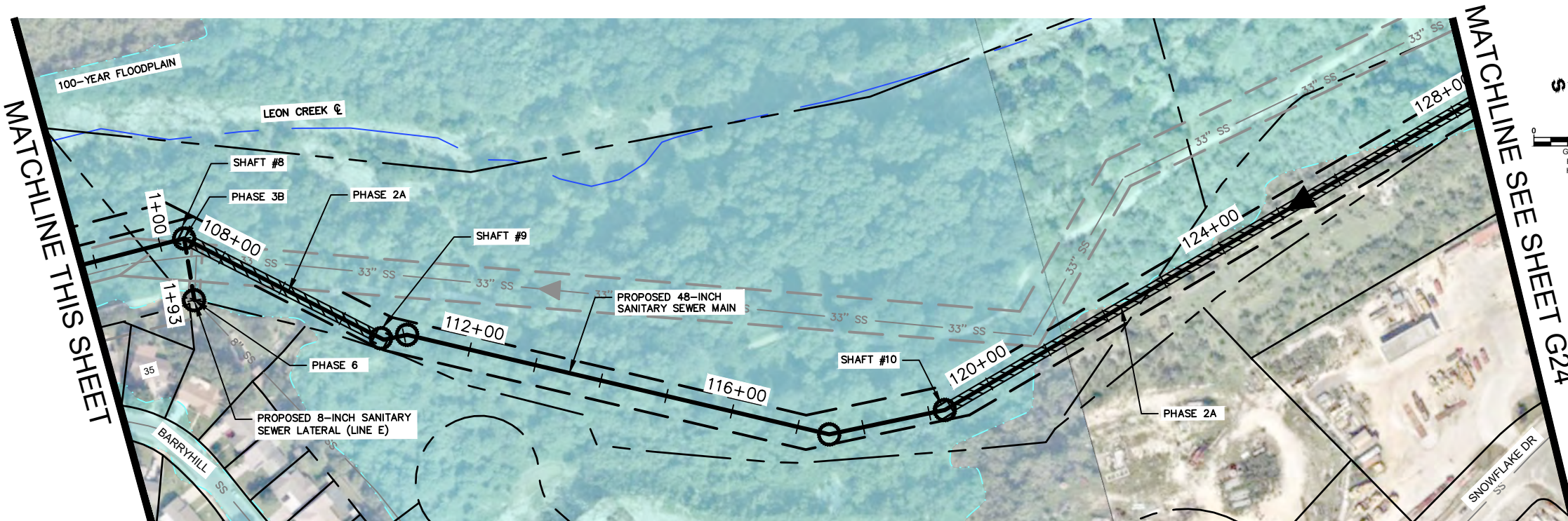
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN

SHEET

SUGGESTED CONSTRUCTION SEQUENCING (SHEET 3 OF 5)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. G23
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		

CHECKED: KHA



GRAPHIC SCALE 100'
FULL SIZE 1" = 100'
HALF SIZE 1" = 200'

100'

200'

100'

200'

100'

200'

100'

200'

100'

200'

100'

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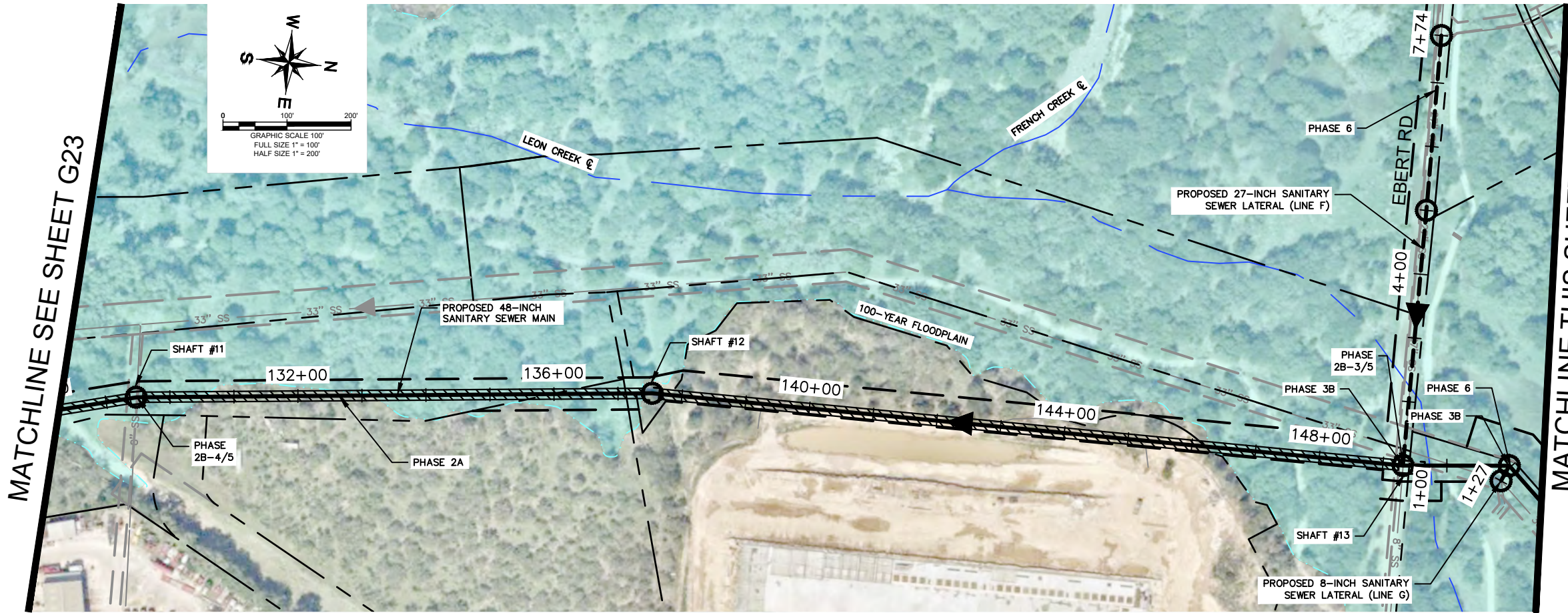
200'

100'

200'

100'

200'



SUGGESTED CONSTRUCTION SEQUENCING NOTES

- SEQUENCE OF CONSTRUCTION SHALL BE DONE IN A MANNER THAT ELIMINATES THE NEED FOR A LONG TERM BYPASS PUMPING OPERATION, SEQUENCING OF CONSTRUCTION OF THE PROPOSED 48-INCH SEWER MAIN IS INTENDED TO BE AS FOLLOWS:
- PHASE 1: CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND BEGIN COORDINATION WITH THE ENTITIES AND OWNERS. THIS INCLUDES COORDINATION ENGINEER/SAWS REGARDING COSA PARK TRAIL CLOSURES, ANY REQUIRED POLE BRACING, AND COORDINATION WITH ADJACENT CONTRACTORS COMPLETING CONSTRUCTION FOR W52, SAWS JOB NO. #22-4502.
- PHASE 1A: CONTRACTOR SHALL CLEAR ALL CONSTRUCTION AREAS AS PER THE CONTRACTOR ACCESS PLAN, THE TREE PROTECTION PLAN, AND THE SPECIAL CONDITIONS.
- PHASE 2: CONTRACTOR SHALL BEGIN CONSTRUCTION OF 48-INCH SEWER MAIN (LINE A) BEGINNING AT STA. 07+06.74 AND CONSTRUCT THE SEWER UPSTREAM TO STA. 215+63.97
- PHASE 2A (TO OCCUR SIMULTANEOUSLY WITH PHASE 2): BEGIN TUNNEL SEGMENTS FOR 48-INCH SEWER MAIN AT LOCATIONS DEEMED MOST ADVANTAGEOUS FOR THE SCHEDULE OF THE CONTRACTOR.
- PHASE 2B (TO OCCUR SIMULTANEOUSLY WITH PHASE 2/2A): CONTRACTOR SHALL BYPASS WITH PVC PIPE (BURIED) (NSPI), SEE SHEET C67, THE FOLLOWING EXISTING SEWER MAIN PRIOR TO THE INSTALLATION OF THEIR RESPECTIVE UPSTREAM MANHOLE. ALL MANHOLES MENTIONED BELOW MUST BE TESTED AND APPROVED, BEFORE PHASE 2C AND 3.
- PHASE 2B-1: EXISTING 8-INCH TO INSTALL MH 30 AT STA. 198+27.71 (SEE SHEET C49)
- PHASE 2B-2: EXISTING 8-INCH TO INSTALL MH 26 AT STA. 173+21.81 (SEE SHEET C42)
- PHASE 2B-3: EXISTING 8-INCH TO INSTALL MH 22 AT STA. 149+31.23 (SEE SHEET C36)
- PHASE 2B-4: EXISTING 8-INCH TO INSTALL MH 20 AT STA. 129+48.11 (SEE SHEET C31)
- PHASE 2B-5: EXISTING 12-INCH TO INSTALL MH 05 AT STA. 31+40.91 (SEE SHEET C7)
- PHASE 2C: CONTRACTOR SHALL CONSTRUCT OPEN CUT SEGMENT FROM STA. 6+77 TO STA. 7+06.72 ONCE THE W52 CONTRACTOR HAS INSTALLED AND TESTED THEIR MANHOLE.
- PHASE 3: CONTRACTOR SHALL CONSTRUCT, TEST, AND APPROVE THE 48-INCH SEWER MAIN. ONCE IT HAS BEEN APPROVED CONTRACTOR SHALL:
- PHASE 3A: TIE IN W52 AND W9 - CONTRACTOR TO VERIFY COMPLETION AND ACCEPTANCE OF THE W52 PROJECT BEFORE TRANSFERRING FLOWS
- PHASE 3B: CONTRACTOR SHALL PLUG THE STUB-OUTS TO ALL PROPOSED LATERAL LINES AT THE FOLLOWING MANHOLES: 2, 6, 9, 14, 16, 22, 23, 25, AND 27
- PHASE 3C: INSTALL MH 33 AT STA. 213+59.17 AND PLUG THE STUB-OUT TO LATERAL LINE J.
- PHASE 4: CONTRACTOR SHALL BYPASS EXISTING 33-INCH AND 12-INCH SEWER MAIN (LINE A) AND CONNECT PROPOSED 48-INCH TO PROPOSED MH 34 (SEE SHEET C53)
- PHASE 5: CONTRACTOR SHALL REMOVE ALL PVC PIPE BYPASSES AND TRANSFER FLOW TO THE PROPOSED 48-INCH.

PHASE 6: CONTRACTOR SHALL CONSTRUCT LATERAL LINES J-D, K, AND C-81 FROM UPSTREAM TO DOWNSTREAM ALONG LINE A. ONCE EACH LINE HAS BEEN TESTED AND APPROVED CONTRACTOR SHALL BYPASS OR INSTALL TEMPORARY REROUTE AS SPECIFIED IN THE PLANS, REMOVE PLUGS FROM STUB-OUTS, INSTALL UPSTREAM LATERAL MANHOLES, AND CONNECT TO EACH OF THEIR RESPECTIVE SEWER MAIN CONNECTION.

PHASE 7: ONCE ALL FLOWS HAVE BEEN CONFIRMED TO BE TRANSFERRED FROM THE SEWER MAIN EXISTING FLOWS, CONTRACTOR SHALL TELEWISE ALL SPECIFIC SEWER LINES (SEE ABANDONMENT PLAN G32-A-G43) TO BE ABANDONED PRIOR TO ABANDONMENT.

LEGEND

- TUNNEL
- PROPOSED LINE A SEWER MAIN
- PROPOSED LINE B-K SANITARY SEWER LATERALS
- 100-YEAR FLOODPLAIN
- CREEK

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

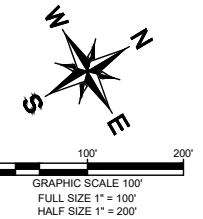
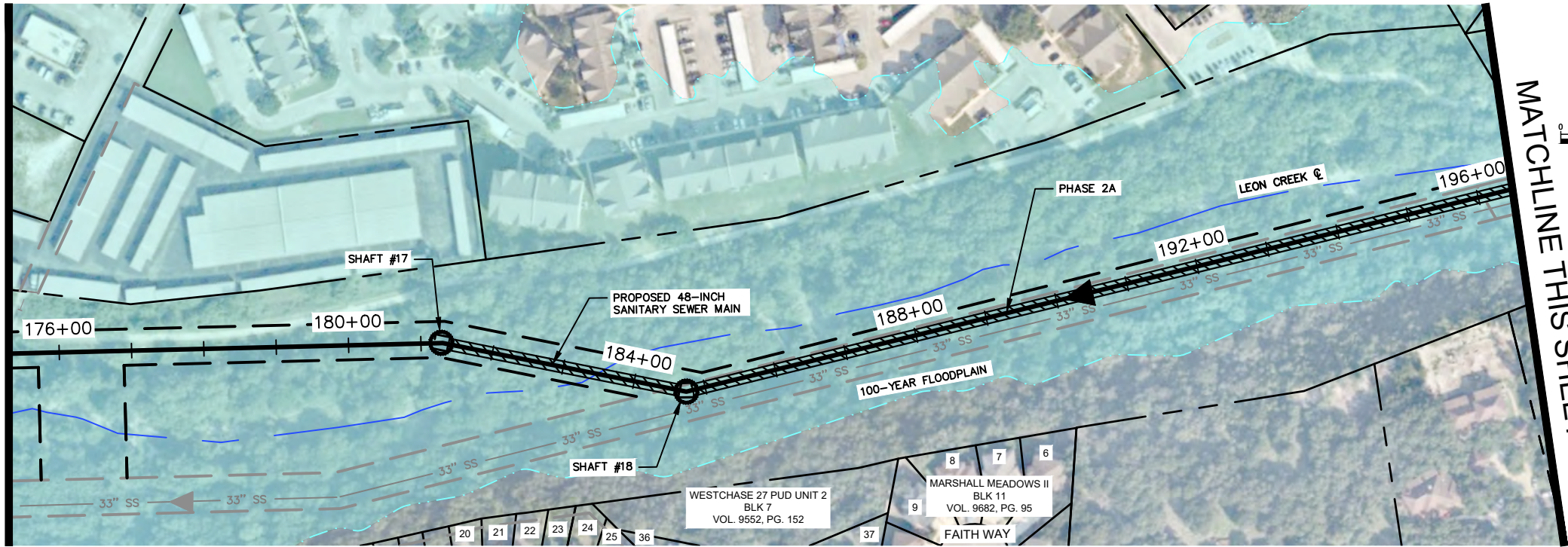


SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET
SUGGESTED CONSTRUCTION SEQUENCING
(SHEET 4 OF 5)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	G24
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

MATCHLINE SEE SHEET G24



SUGGESTED CONSTRUCTION SEQUENCING NOTES

SEQUENCE OF CONSTRUCTION SHALL BE DONE IN A MANNER THAT ELIMINATES THE NEED FOR A LONG TERM BYPASS PUMPING OPERATION, SEQUENCING OF CONSTRUCTION OF THE PROPOSED 48-INCH SEWER MAIN IS INTENDED TO BE AS FOLLOWS:

PHASE 1: CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND BEGIN COORDINATION WITH THE ENTITIES AND OWNERS. THIS INCLUDES COORDINATION ENGINEER/SAWS REGARDING COSA PARK TRAIL CLOSURES, ANY REQUIRED POLE BRACING, AND COORDINATION WITH ADJACENT CONTRACTORS COMPLETING CONSTRUCTION FOR W52, SAWS JOB NO. #22-4502.

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PHASE 2A (TO OCCUR SIMULTANEOUSLY WITH PHASE 2): BEGIN TUNNEL SEGMENTS FOR 48-INCH SEWER MAIN AT LOCATIONS DEEMED MOST ADVANTAGEOUS FOR THE SCHEDULE OF THE CONTRACTOR.

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PHASE 2B-1: EXISTING 8-INCH TO INSTALL MH 30 AT STA. 198+27.71 (SEE SHEET C49)

PHASE 2B-2: EXISTING 8-INCH TO INSTALL MH 26 AT STA. 173+21.81 (SEE SHEET C42)

PHASE 2B-3: EXISTING 8-INCH TO INSTALL MH 22 AT STA. 149+31.23 (SEE SHEET C36)

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PHASE 2B-5 EXISTING 12-INCH TO INSTALL MH 05 AT STA. 31+40.91 (SEE SHEET C7)

PHASE 2C: CONTRACTOR SHALL CONSTRUCT OPEN CUT SEGMENT FROM STA. 6+77 TO STA. 7+06.72 ONCE THE W52 CONTRACTOR HAS INSTALLED AND TESTED THEIR MANHOLE.

PHASE 3: CONTRACTOR SHALL CONSTRUCT, TEST, AND APPROVE THE 48-INCH SEWER MAIN. ONCE IT HAS BEEN APPROVED CONTRACTOR SHALL:

PHASE 3A: TIE IN W52 AND W9 - CONTRACTOR TO VERIFY COMPLETION AND ACCEPTANCE OF THE W52 PROJECT BEFORE TRANSFERRING FLOWS

PHASE 3B: CONTRACTOR SHALL PLUG THE STUB-OUTS TO ALL PROPOSED LATERAL LINES AT THE FOLLOWING MANHOLES: 2, 6, 9, 14, 16, 22, 23, 25, AND 27

PHASE 3C: INSTALL MH 33 AT STA. 213+59.17 AND PLUG THE STUB-OUT TO LATERAL LINE J.

PHASE 4: CONTRACTOR SHALL BYPASS EXISTING 33-INCH AND 12-INCH SEWER MAIN (LINE A) AND CONNECT PROPOSED 48-INCH TO PROPOSED MH 34 (SEE SHEET C53)

PHASE 5: CONTRACTOR SHALL REMOVE ALL PVC PIPE BYPASSES AND TRANSFER FLOW TO THE PROPOSED 48-INCH.

PHASE 6: CONTRACTOR SHALL CONSTRUCT LATERAL LINES J-D, K, AND C-B1 FROM UPSTREAM TO DOWNSTREAM ALONG LINE A. ONCE EACH LINE HAS BEEN TESTED AND APPROVED CONTRACTOR SHALL BYPASS OR INSTALL TEMPORARY PVC REROUTE AS SPECIFIED IN THE PLANS, REMOVE PLUGS FROM STUB-OUTS, INSTALL UPSTREAM LATERAL MANHOLES, AND CONNECT TO EACH OF THEIR RESPECTIVE SEWER MAIN CONNECTION.

PHASE 7: ONCE ALL FLOWS HAVE BEEN CONFIRMED TO BE TRANSFERRED FROM THE SEWER MAIN EXISTING FLOWS, CONTRACTOR SHALL TELEWISE ALL SPECIFIC SEWER LINES (SEE ABANDONMENT PLAN G32-A-G43) TO BE ABANDONED PRIOR TO ABANDONMENT.

LEGEND

	TUNNEL
	PROPOSED LINE A SEWER MAIN
	PROPOSED LINE B-K SANITARY SEWER LATERALS
	100-YEAR FLOODPLAIN
	CREEK &

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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No.	Revision	By	Date



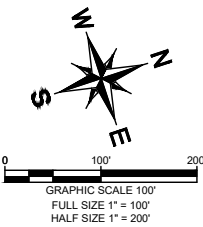
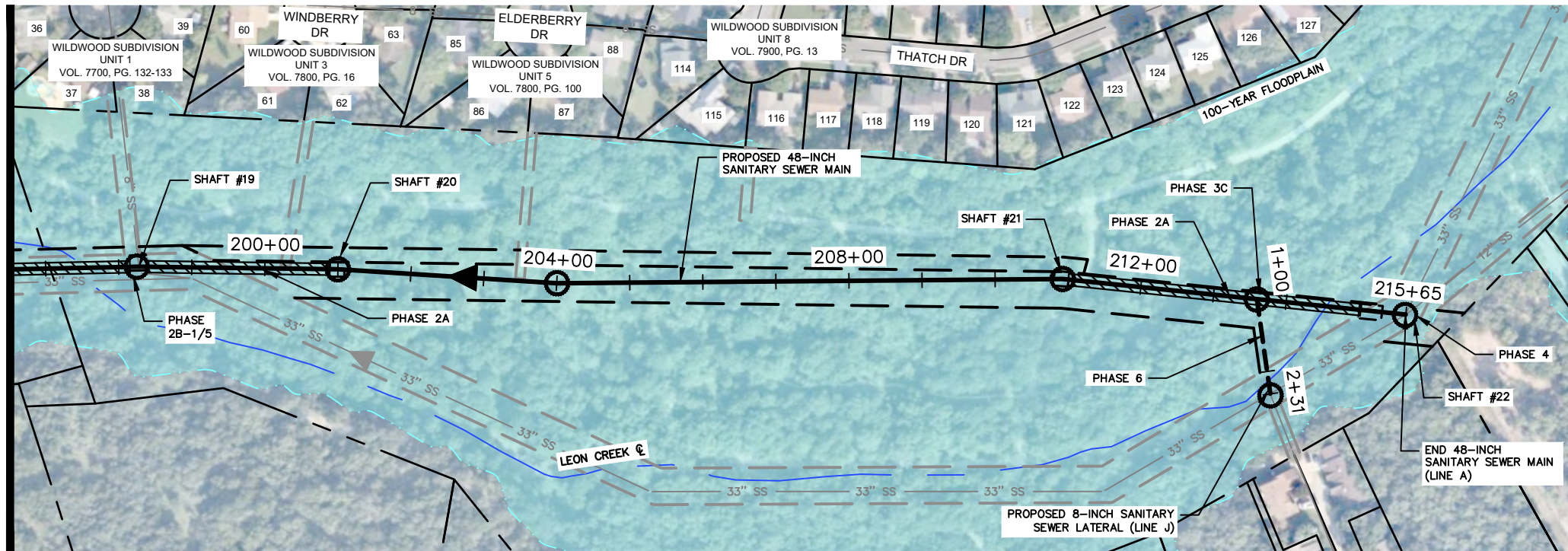
SAN ANTONIO WATER SYSTEM

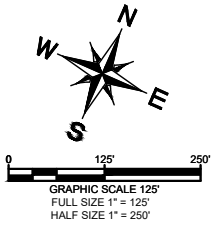
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

SUGGESTED CONSTRUCTION SEQUENCING
(SHEET 5 OF 5)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	G25
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

MATCHLINE THIS SHEET





- NOTES:
1. CONTRACTOR MUST COORDINATE WITH W-52 CONTRACTOR FOR THE USE OF THE SHARED EASEMENT. PORTIONS OF THIS EASEMENT WILL BE USED FOR W-52 STAGING AND STORAGE, AND CANNOT BE USED FOR STAGING AND STORAGE FOR THE W-9 PROJECT.
 2. FENCING FOR SHARED W-52 EASEMENT TO BE PROVIDED BY W-52 CONTRACTOR, BUT MUST BE MAINTAINED BY W-9 CONTRACTOR WHEN BEING USED FOR W-9 ACCESS (NSPI). IF W-52 CONTRACTOR DEMOBILIZES AND REMOVES TEMPORARY FENCING, W-9 CONTRACTOR MUST REPLACE THE TEMPORARY FENCING UNTIL ACCESS IS NO LONGER REQUIRED (NSPI).
 3. CONTRACTOR IS TO MAINTAIN ACCESS ALONG JOE NEWTON ST FOR OTHER PROPERTY OWNERS AT ALL TIMES.
 4. NO EQUIPMENT, VEHICLES, OR MATERIALS MAY BE PARKED OR STORED ON JOE NEWTON ST AT ANY TIME.
 5. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER ONSITE DEVELOPMENT, LLC AT 210-472-2345 TO AVOID IMPACTS TO CONCURRENT WORK BY PROPERTY OWNER.
 6. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 7. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

- VEGETATION RESTORATION NOTES:
1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
 2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
 3. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF 1/4 TO 1/3-INCH.

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
516.1	TOPSOIL (4-INCH DEPTH) (W-52 SHARED EASEMENT) (COSA SPEC)	CY	4040.83
G26-G32	DRILL SEEDING WITH NATIVE GRASSES (W-52 SHARED EASEMENT)	SY	36367.47

LEGEND

AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	
PROP. SAN. SWR. LINE	
TEMP. FENCING FOR TRAIL	
TEMP. FENCING FOR EXCAVATION	
PROPERTY LINE	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

RESPONSIBLE ENGINEER:
GREGORY T. BLACKBURN, PE
TBPE NO. 121663
December 6, 2023

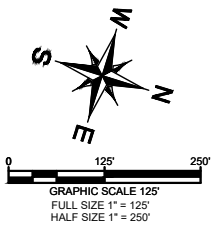
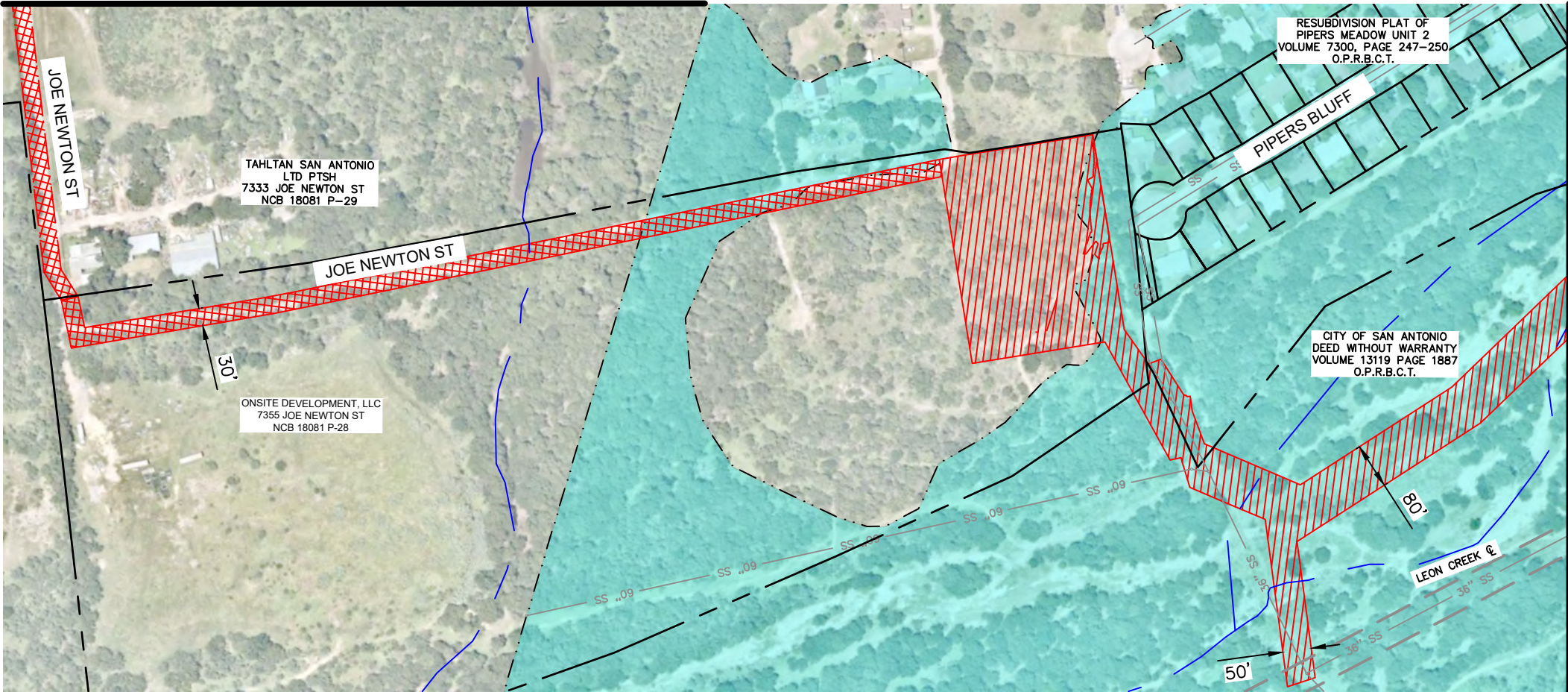
K-FRIESE + ASSOCIATES
A LOCHNER COMPANY

40 NE Loop 410
Mercantile Building, Suite 545
San Antonio, Texas 78216
P 210.491.2391
TBPE Firm No. 6535
www.kfriese.com

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN	
	ACCESS AND STAGING SHEET (1 OF 8)	
	DATE: DECEMBER 2023	SHEETS PROJECT NO.
	DESIGN: KFA	22-4501
	DRAWN: KFA	KHA PROJECT NO.
	CHECKED: KFA	068665068
		SHEET NO. G26

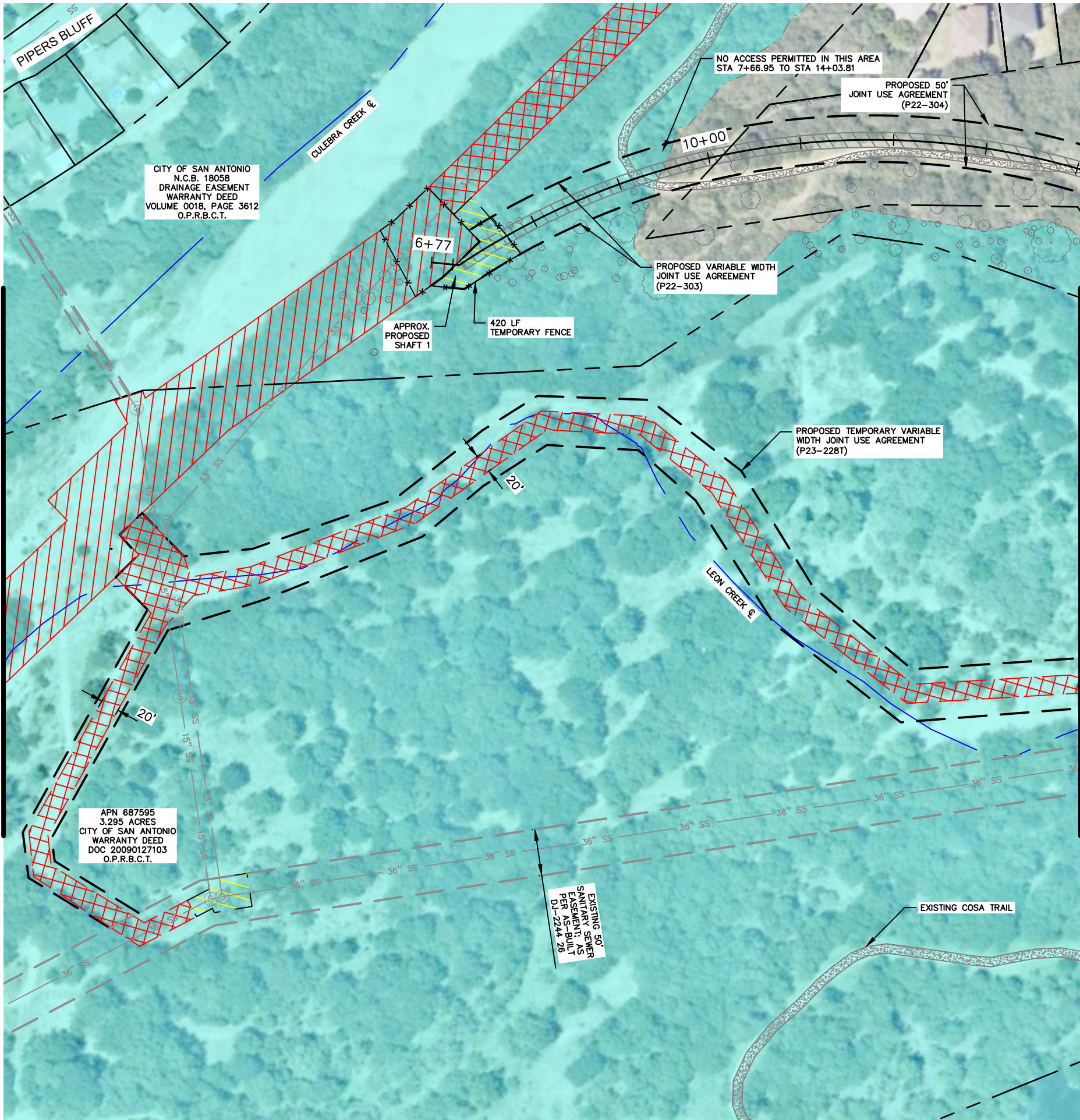
MATCHLINE THIS SHEET



MATCHLINE SEE SHEET G27

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12/6/2023 2:01 PM
PLOTTED BY
DWG NAME
DATE SAVED

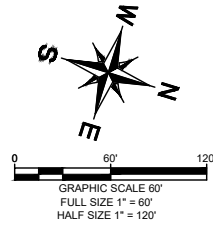
MATCHLINE SEE SHEET G26



MATCHLINE SEE SHEET G28

NOTES:

1. CONTRACTOR MUST COORDINATE WITH W-52 CONTRACTOR FOR THE USE OF THE SHARED EASEMENT. PORTIONS OF THIS EASEMENT WILL BE USED FOR W-52 STAGING AND STORAGE, AND CANNOT BE USED FOR STAGING AND STORAGE FOR THE W-9 PROJECT.
2. FENCING FOR SHARED W-52 EASEMENT TO BE PROVIDED BY W-52 CONTRACTOR, BUT MUST BE MAINTAINED BY W-9 CONTRACTOR WHEN BEING USED FOR W-9 ACCESS. IF W-52 CONTRACTOR DEMOBILIZES AND REMOVES TEMPORARY FENCING, W-9 CONTRACTOR MUST REPLACE THE TEMPORARY FENCING UNTIL ACCESS IS NO LONGER REQUIRED.
3. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
4. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	547.93
516.1	TOPSOIL (4-INCH DEPTH) (W-52 SHARED EASEMENT) (COSA SPEC)	CY	826.49
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	4931.34
G26-G32	DRILL SEEDING WITH NATIVE GRASSES (W-52 SHARED EASEMENT)	SY	7438.4

VEGETATION RESTORATION NOTES:

1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
3. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF 1/4 TO 1/3-INCH.

LEGEND

AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	48" SS
PROP. SAN. SWR. LINE	48" SS
TEMP. FENCING FOR TRAIL	XXXXXXXXXXXXXXXXXXXX
TEMP. FENCING FOR EXCAVATION	-X-X-X-X-X-X-
PROPERTY LINE	----
EXISTING EASEMENT LINE	----
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	----

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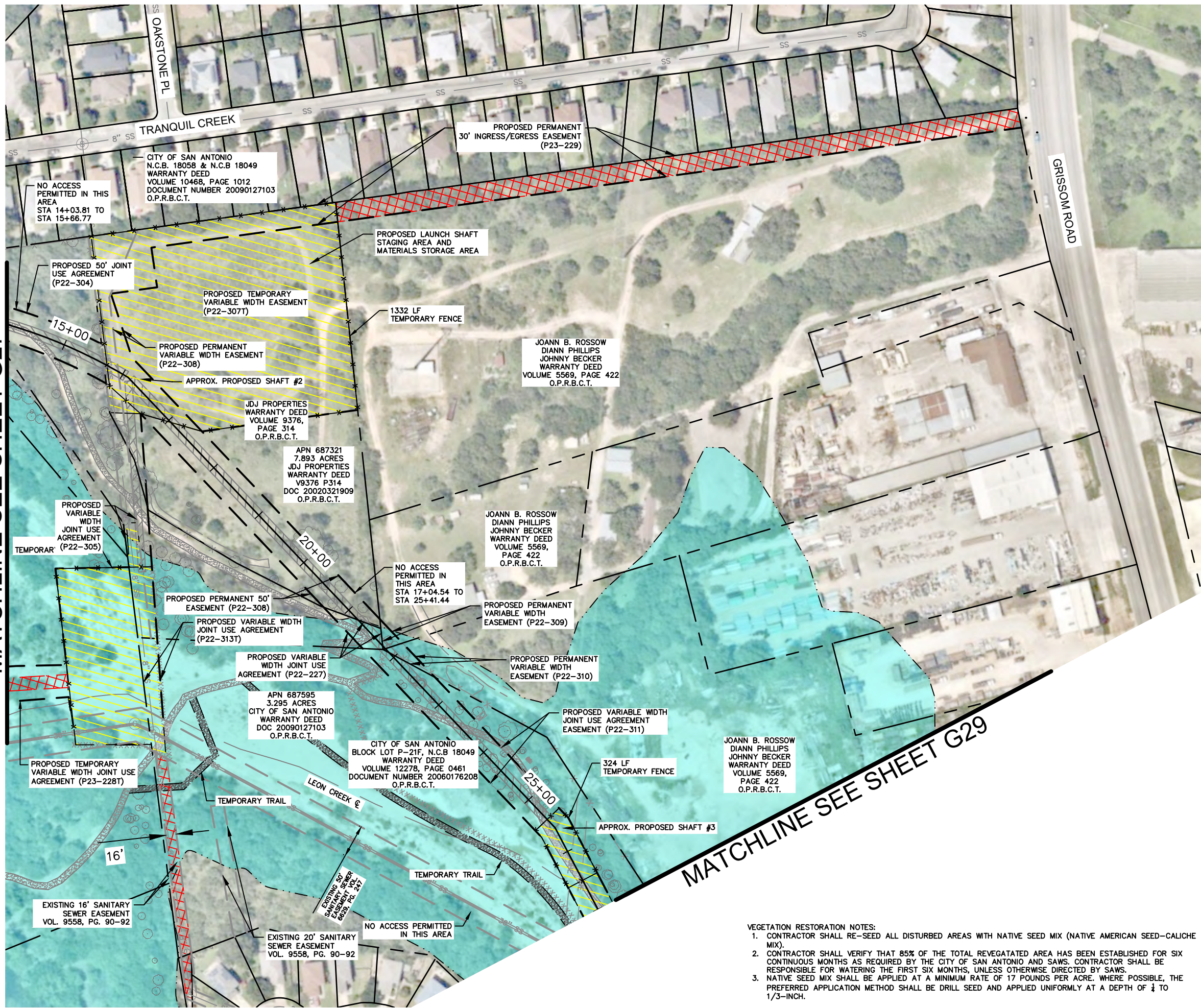
RESPONSIBLE ENGINEER:
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TBPE Firm No. 6535
www.kfriesse.com

No.	Revision	By	Date


	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN	
	ACCESS AND STAGING SHEET (2 OF 8)	
	DATE: DECEMBER 2023	SHEETS PROJECT NO.
	DESIGN: KFA	22-4501
DRAWN: KFA		KHA PROJECT NO.
CHECKED: KFA		068665068
		SHEET NO. G27



NOTES:

1. CONTRACTOR WILL BE REQUIRED TO CLEAR ACCESS PATH TO PROPOSED TUNNEL SHAFT THROUGH PERMANENT ACCESS EASEMENT.
2. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
3. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

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 <p>SAN ANTONIO WATER SYSTEM</p>	<p>W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN</p> <p>ACCESS AND STAGING SHEET (3 OF 8)</p>
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DATE: DECEMBER 2023	SAWS PROJECT NO.	SHEET NO. <div style="font-size: 2em; font-weight: bold;">G28</div>
DESIGN: KFA	22-4501	
DRAWN: KFA	KHA PROJECT NO.	
CHECKED: KFA	068665068	

JOANN B. ROSSOW
DIANN PHILLIPS
JOHNNY BECKER
WARRANTY DEED
VOLUME 5569,
PAGE 422
O.P.R.B.C.T.

SHAFT #3

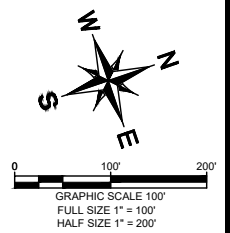
MATCHLINE SEE SHEET G29

VEGETATION RESTORATION NOTES:

1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND LAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE REVEGETATED AREAS MONTHLY UNLESS OTHERWISE SPECIFIED BY THE CITY OF SAN ANTONIO.
3. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE, WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF $\frac{1}{4}$ TO $\frac{1}{3}$ -INCH.

PLOTTED BY MICA GARZA 12/6/2023 9:00 AM
 DWG NAME X:\PROJECTS\0841_SAWS W9 UPPER LEON CREEK\DGN\SHEETS\0841-C-ACCS.DWG
 LAST SAVED 12/4/2023 3:01 PM

- VEGETATION RESTORATION NOTES:
1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
 2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
 3. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF $\frac{1}{4}$ TO $\frac{1}{3}$ -INCH.



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	2257.10
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	20313.88

- NOTES:
1. CONTRACTOR SHALL NOT BLOCK ACCESS TO COSA GRISSOM TRAIL HEAD OR PARKING LOT. IF CONTRACTOR NEEDS TO CROSS COSA TRAIL, FLAGGERS MUST BE USED.
 2. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 2. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

LEGEND

AREAS FOR WORK/ACCESS

PROPOSED TUNNEL

SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)

ACCESS ONLY AREAS

100 YR FLOODPLAIN WITH BOUNDARY

EXISTING SAN. SWR. LINE

PROP. SAN. SWR. LINE

TEMP. FENCING FOR TRAIL

TEMP. FENCING FOR EXCAVATION

PROPERTY LINE

EXISTING EASEMENT LINE

PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT


THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

RESPONSIBLE ENGINEER: GREGORY T. BLACKBURN, PE TBPE NO. 121663 December 6, 2023

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No.	Revision	By	Date

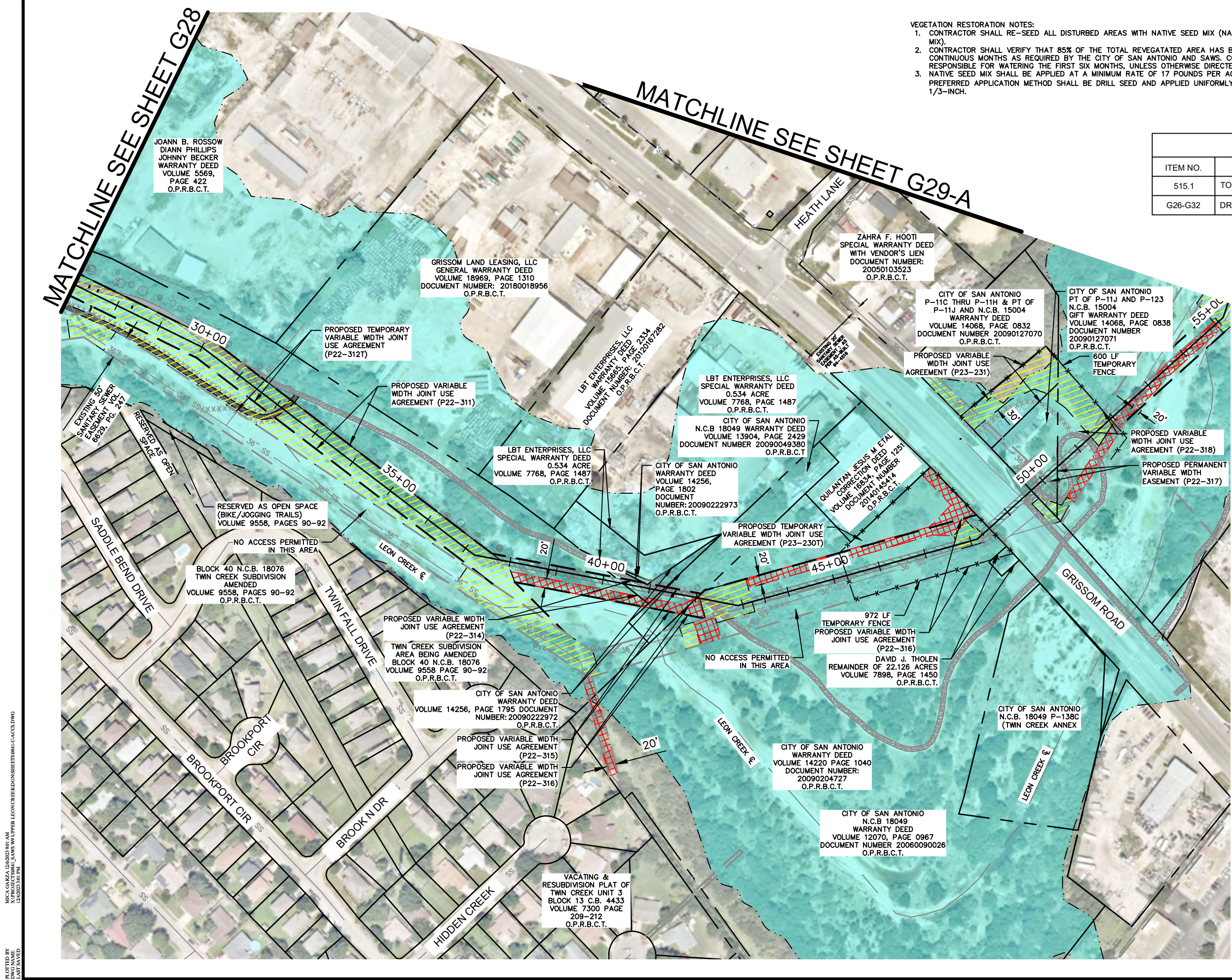


SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN

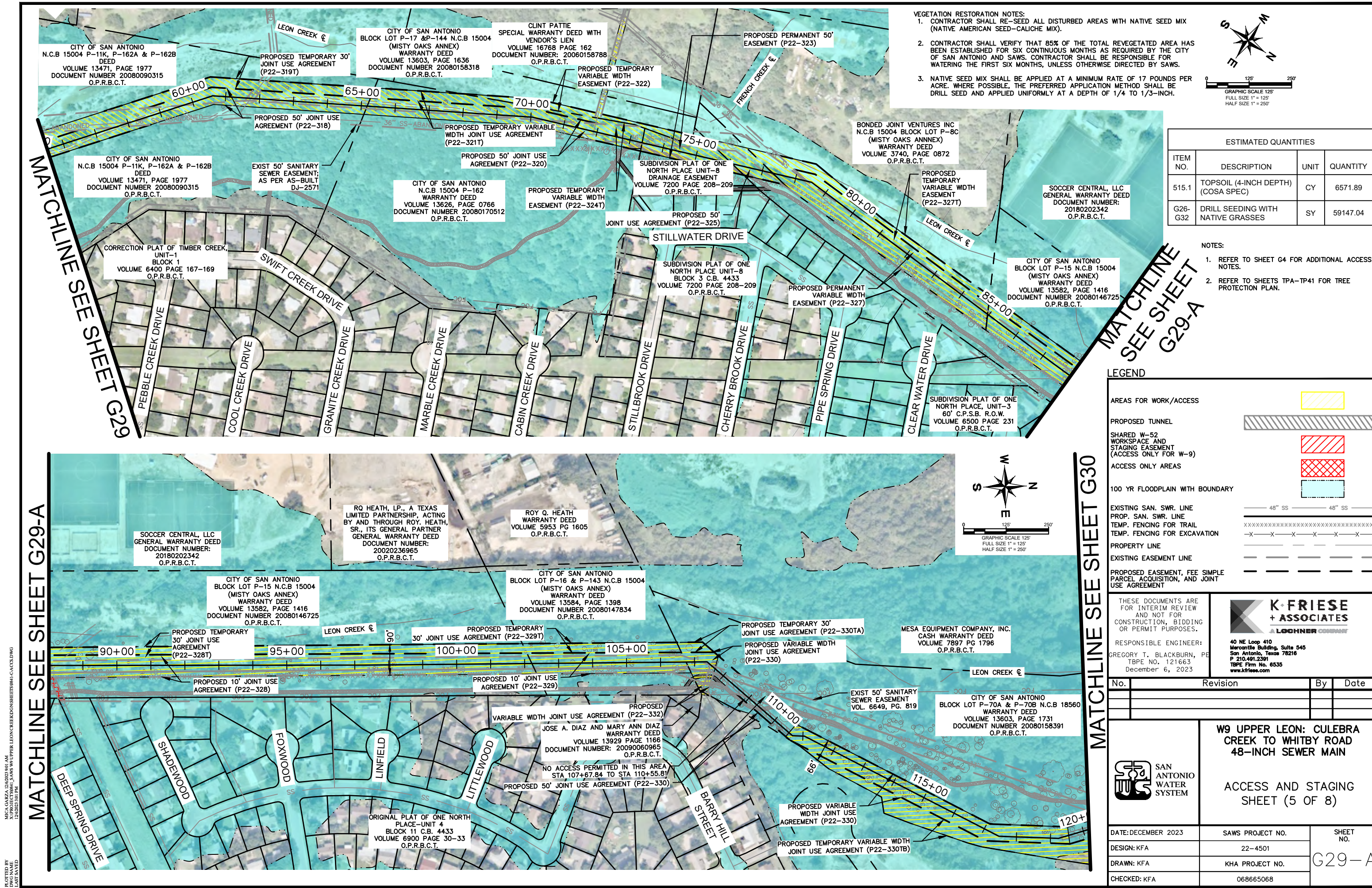
ACCESS AND STAGING SHEET (4 OF 8)

DATE: DECEMBER 2023	SAWS PROJECT NO. 22-4501	SHEET NO. G29
DESIGN: KFA	KHA PROJECT NO. 068665068	
DRAWN: KFA		
CHECKED: KFA		

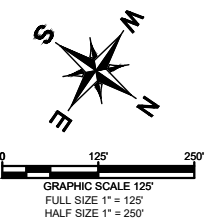


PLOTTED BY: MICHA GARCIA 12/06/2023 9:01 AM
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12/06/2023 2:01 PM

DESIGNED BY: MICHA GARCIA
DRAWN BY: MICHA GARCIA
CHECKED BY: MICHA GARCIA



- VEGETATION RESTORATION NOTES:
1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
 2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
 3. NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF 1/4 TO 1/3-INCH.



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	6571.89
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	59147.04

- NOTES:
1. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 2. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

MATCHLINE
SEE SHEET
G29-A

MATCHLINE
SEE SHEET
G29

LEGEND	
AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	
PROP. SAN. SWR. LINE	
TEMP. FENCING FOR TRAIL	
TEMP. FENCING FOR EXCAVATION	
PROPERTY LINE	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	

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No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

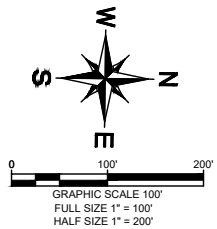
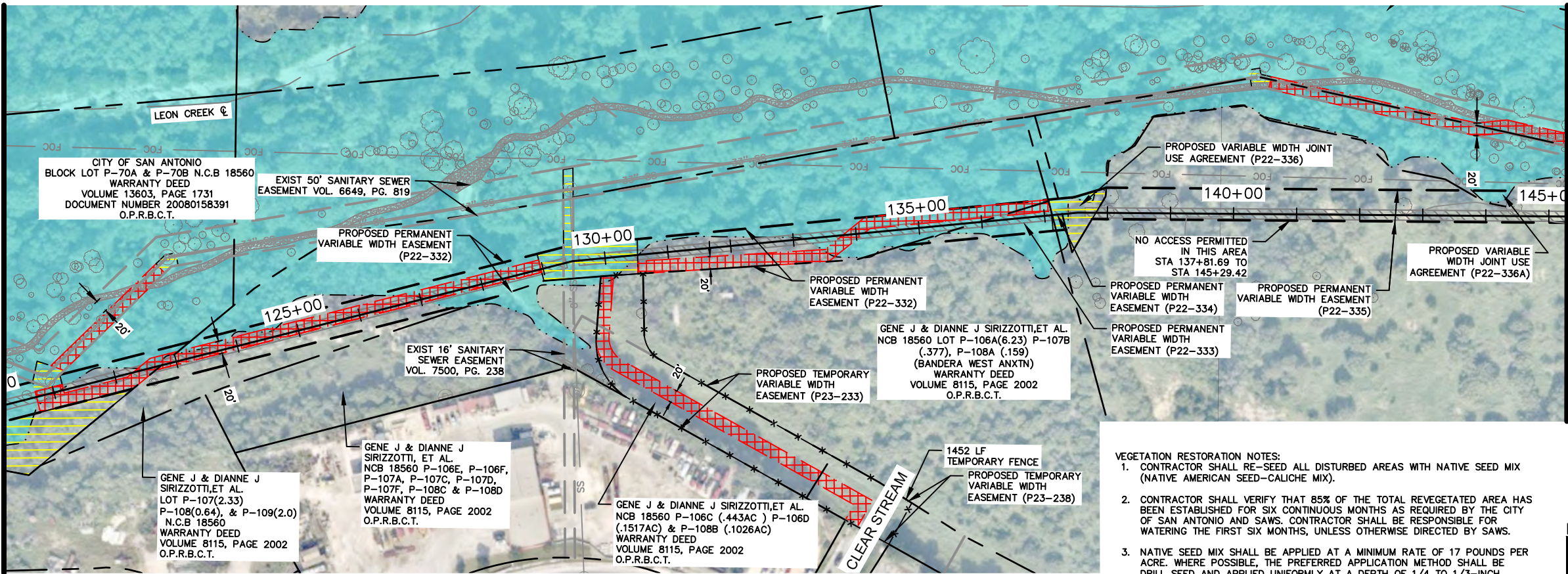
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN

ACCESS AND STAGING SHEET (5 OF 8)

DATE: DECEMBER 2023	SAWS PROJECT NO. 22-4501	SHEET NO. G29-A
DESIGN: KFA	KHA PROJECT NO. 068665068	
DRAWN: KFA		
CHECKED: KFA		

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12/6/2023 9:01 PM
PLOTTED BY
DWG NAME
G29-A

MATCHLINE SEE SHEET G29-A

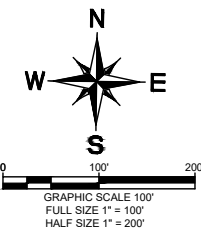
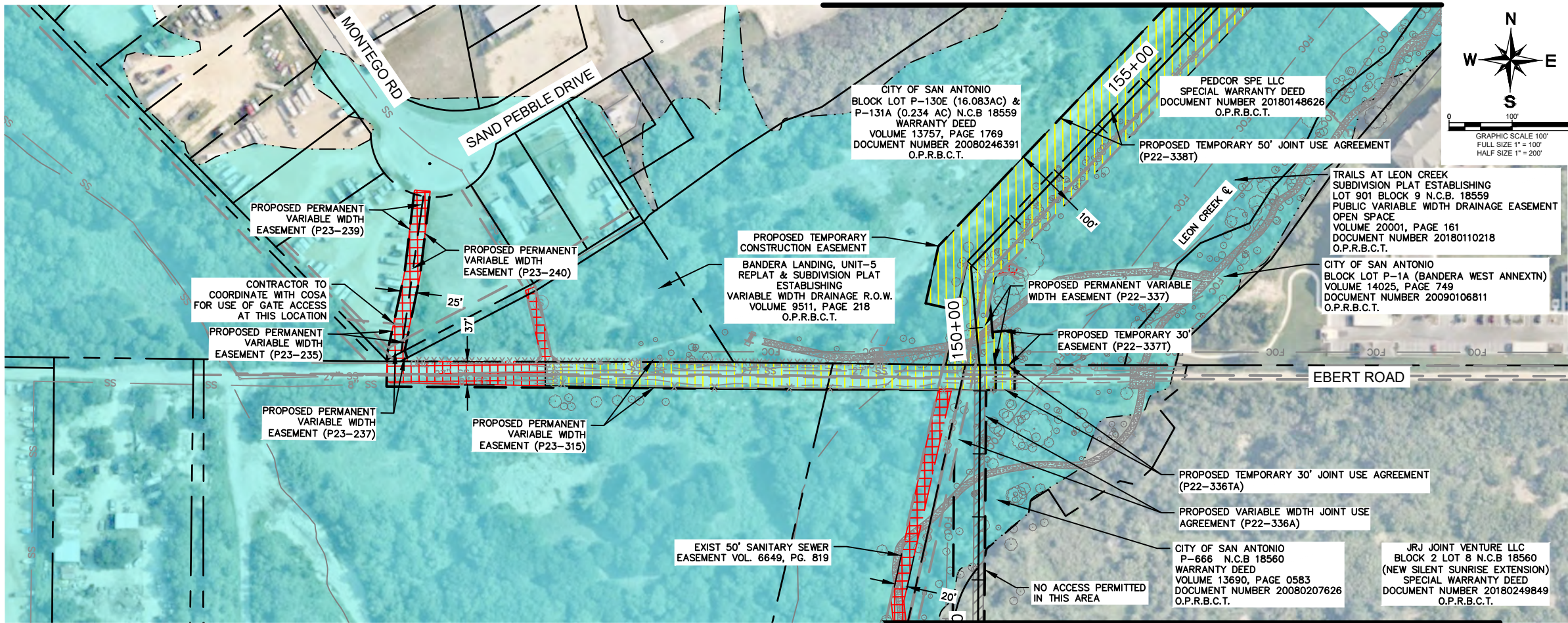


ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	2631.62
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	23684.57

- NOTES:
1. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 2. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS ON ACCESS THROUGH CLEAR STREAM INCLUDING ANY REMOVAL OF VEHICLES BLOCKING THE ACCESS PATH (NSPI).
 2. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

- VEGETATION RESTORATION NOTES:
1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
 2. CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
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MATCHLINE SEE SHEET G31



LEGEND

AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	
PROP. SAN. SWR. LINE	
TEMP. FENCING FOR TRAIL	
TEMP. FENCING FOR EXCAVATION	
PROPERTY LINE	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	

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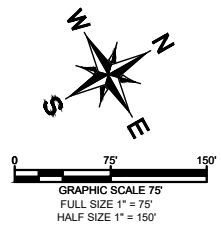
RESPONSIBLE ENGINEER:
GREGORY T. BLACKBURN, PE
TBPE NO. 121663
December 6, 2023

K. FRIESE + ASSOCIATES
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No.	Revision	By	Date

		W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN	
ACCESS AND STAGING SHEET (6 OF 8)			
DATE: DECEMBER 2023	SAWS PROJECT NO.	SHEET NO. G30	
DESIGN: KFA	22-4501		
DRAWN: KFA	KHA PROJECT NO.		
CHECKED: KFA	068665068		



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB	LF	40.00
209.1	CONCRETE PAVEMENT (6" THICK) (COSA SPEC)	SY	1476.49
500	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER	LF	40.00
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	2978
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	26799

- NOTES:
1. REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 2. REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

LEGEND

AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	
PROP. SAN. SWR. LINE	
TEMP. FENCING FOR TRAIL	
TEMP. FENCING FOR EXCAVATION	
PROPERTY LINE	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT, FEE SIMPLE PARCEL ACQUISITION, AND JOINT USE AGREEMENT	

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No.	Revision	By	Date

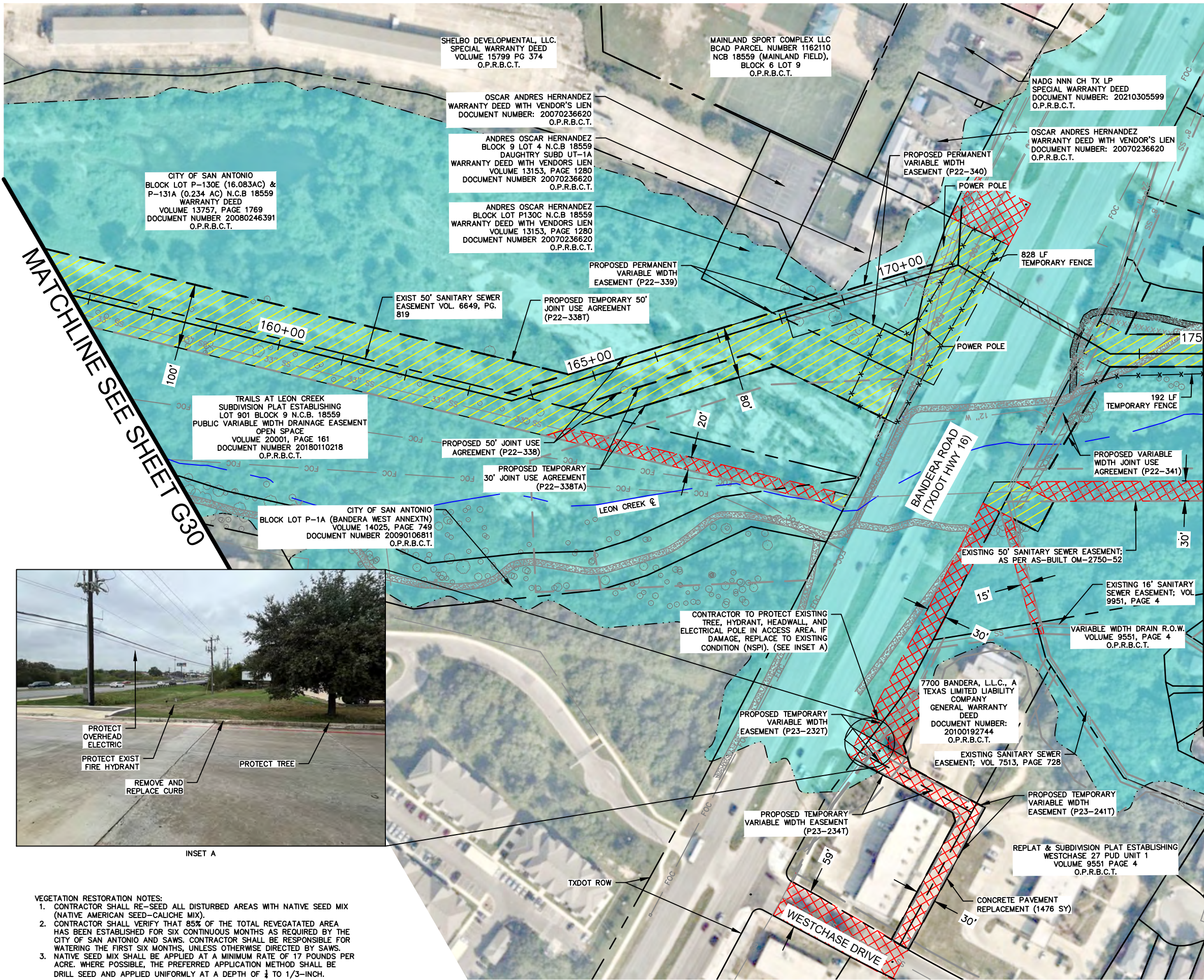


SAN ANTONIO WATER SYSTEM

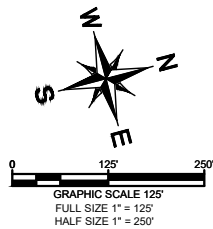
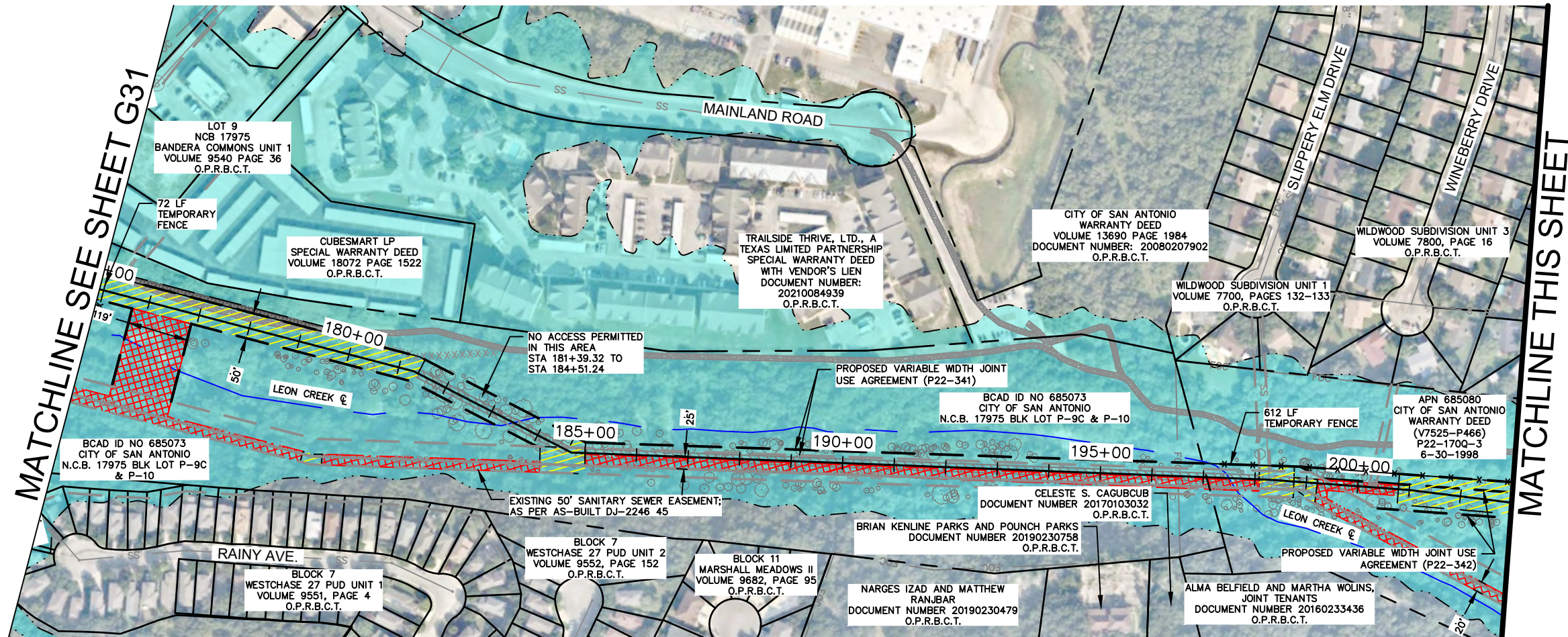
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN

ACCESS AND STAGING
SHEET (7 OF 8)

DATE: DECEMBER 2023	SAWS PROJECT NO.	SHEET NO. G31
DESIGN: KFA	22-4501	
DRAWN: KFA	KHA PROJECT NO.	
CHECKED: KFA	068665068	



- VEGETATION RESTORATION NOTES:
1. CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
515.1	TOPSOIL (4-INCH DEPTH) (COSA SPEC)	CY	2848.22
G26-G32	DRILL SEEDING WITH NATIVE GRASSES	SY	25633.98

LEGEND

AREAS FOR WORK/ACCESS	
PROPOSED TUNNEL	
SHARED W-52 WORKSPACE AND STAGING EASEMENT (ACCESS ONLY FOR W-9)	
ACCESS ONLY AREAS	
100 YR FLOODPLAIN WITH BOUNDARY	
EXISTING SAN. SWR. LINE	
PROP. SAN. SWR. LINE	
TEMP. FENCING FOR TRAIL	
TEMP. FENCING FOR EXCAVATION	
PROPERTY LINE	
EXISTING EASEMENT LINE	
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RESPONSIBLE ENGINEER:
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TBPE NO. 121663
December 6, 2023

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No.	Revision	By	Date



W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN

ACCESS AND STAGING
SHEET (8 OF 8)

DATE: DECEMBER 2023	SAWS PROJECT NO.	SHEET NO. G32
DESIGN: KFA	22-4501	
DRAWN: KFA	KHA PROJECT NO.	
CHECKED: KFA	068665068	

- NOTES:
- REFER TO SHEET G4 FOR ADDITIONAL ACCESS NOTES.
 - REFER TO SHEETS TPA-TP41 FOR TREE PROTECTION PLAN.

- VEGETATION RESTORATION NOTES:
- CONTRACTOR SHALL RE-SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX (NATIVE AMERICAN SEED-CALICHE MIX).
 - CONTRACTOR SHALL VERIFY THAT 85% OF THE TOTAL REVEGETATED AREA HAS BEEN ESTABLISHED FOR SIX CONTINUOUS MONTHS AS REQUIRED BY THE CITY OF SAN ANTONIO AND SAWS. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE FIRST SIX MONTHS, UNLESS OTHERWISE DIRECTED BY SAWS.
 - NATIVE SEED MIX SHALL BE APPLIED AT A MINIMUM RATE OF 17 POUNDS PER ACRE. WHERE POSSIBLE, THE PREFERRED APPLICATION METHOD SHALL BE DRILL SEED AND APPLIED UNIFORMLY AT A DEPTH OF 1/4 TO 1/3-INCH.

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DWG NAME
G32-ACCESS

Tree Protection Notes

TREE PRESERVATION PLAN

THE PURPOSE OF THIS PLAN IS TO DEVELOP GUIDELINES TO BE FOLLOWED BY THE CONTRACTOR WHICH OUTLINE ALLOWABLE CONSTRUCTION ACTIVITIES AS THEY RELATE TO TREE PROTECTION, TREE REMOVAL, AND TREE PRUNING WITH AN EMPHASIS ON TREE AND UNDERSTORY PRESERVATION. PRESERVATION AND MITIGATION REQUIREMENTS WILL BE APPLIED TO THE ENTIRE PROJECT. THE CONSTRUCTION OR MOBILIZATION SHALL OCCUR PRIOR TO ACCEPTANCE OF THE PRESERVATION PLAN.

DEFINITIONS:

DIAMETER BREAST HEIGHT (DBH) OR DIAMETER INCHES: THE AVERAGE CROSS-SECTIONAL MEASUREMENT OF THE TRUNK OF AN EXISTING TREE AT FOUR AND ONE-HALF (4 ½) FEET ABOVE GRADE. IF THE TREE IS ON A SLOPE, IT SHALL BE MEASURED FROM FROM THE HIGH SIDE OF THE SLOPE. NEWLY PLANTED TREES SHALL BE MEASURED SIX (6) INCHES ABOVE GRADE FOR MULTI-TRUNK SPECIES, THIS MEASUREMENT WILL BE BASED ON THE MEASURED DIAMETER OF THE MAIN TRUNK TAKEN FOUR AND ONE-HALF (4 ½) FEET ABOVE GRADE TOGETHER WITH ONE-HALF (½) OF THE DIAMETER OF THE REMAINING TRUNKS MEASURED AT THE SAME HEIGHT.

PROTECTED TREE: TREE DESIGNATED ON PLAN SHEET WITH NOTED LEGEND.

ROOT PROTECTION ZONE (RPZ): AN AREA WITH A RADIUS OF ONE FOOT FOR EACH INCH DBH OF TRUNK, OR IF BRANCHING OCCURS AT FOUR AND ONE-HALF (4 ½) INCHES, THE DIAMETER IS MEASURED AT THE POINT WHERE THE SMALLEST DIAMETER CLOSEST TO THE BRANCHING OCCURS. THE ZONE DOES NOT NEED TO BE EXACTLY CENTERED AROUND THE TREE OR CIRCULAR IN SHAPE, BUT IT SHOULD BE POSITIONED SO THAT NO DISTURBANCE OCCURS CLOSER TO THE TREE THAN ONE-HALF (½) OF THE RADIUS OF THE ZONE OR WITHIN FIVE (5) FEET OF THE TREE WHICHEVER IS LESS FOR ANY TREE OR GROUPS OF TREES. THE ZONED DOES NOT NEED TO EXCEED ONE THOUSAND (1,000) SQUARE FEET IN SIZE. THE RADIAL ROOT PROTECTION ZONES OF TREES MAY OVERLAP ONE ANOTHER SO THAT THE AREA OF PROTECTION REQUIRED FOR ONE (1) TREE MAY BE SHARED BY THE AREA OF PROTECTION REQUIRED FOR ANOTHER TREE TO MINIMIZE THE TOTAL SQUARE FOOTAGE OF PROTECTED AREA WHERE POSSIBLE.

TREE: A PERENNIAL WOODY PLANT, SINGLE OR MULTIPLE TRUNK WITH FEW IF ANY BRANCHES ON ITS LOWER PART WHICH AT MATURITY WILL OBTAIN A MINIMUM SIX-INCH CALIPER.

TREE SURVEY

A TREE SURVEY OF TREES 6" DBH AND LARGER 20 FEET EITHER SIDE OF CENTERLINE HAS BEEN PERFORMED FOR THE PROJECT ROUTE PRESENTED HEREIN. TREE PRESERVATION SHALL BE APPLICABLE TO THE ENTIRE PROJECT. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS PRIOR TO BID SUBMISSION.

TREE REMOVAL

- 1. THE CONTRACTOR WILL BE ALLOWED TO CLEAR SITE AREA UNLESS A PARTICULAR TREE OR TREES IS DESIGNATED TO REMAIN.
- 2. ALL DEBRIS FROM TREE REMOVAL (TRUNKS, BRANCHES, ROOTS, ETC.) SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- 3. THE SAWS CONSTRUCTION INSPECTOR WILL BE REQUIRED TO KEEP AN INVENTORY OF ALL PROTECTED TREES REMOVED. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT SAWS INSPECTOR AUTHORIZATION PENDING IDENTIFICATION, MEASUREMENT, AND DOCUMENTATION.
- 4. TREES LOCATED WITHIN CITY, COUNTY, OR STATE RIGHT-OF-WAYS SHALL NOT BE REMOVED WITHOUT APPROVAL FROM THE CITY ARBORIST'S OFFICE.
- 5. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL SCHEDULE A PROJECT SITE WALK-THROUGH WITH THE CITY ARBORIST INSPECTOR.

TREE PRUNING

- 1. ALL TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO CITY OF SAN ANTONIO ITEM NO. 802 TREE PRUNING, SOIL AMENDING AND FERTILIZATION AND STANDARD PRACTICES DESCRIBED BY THE AMERICAN NATIONAL STANDARD INSTITUTE ANSI A300-1995 OR MOST CURRENT VERSION.
- 2. PRUNING WILL BE ALLOWED WITHIN THE PERMANENT CONSTRUCTION AND/OR ACCESS EASEMENTS AS REQUIRED FOR CLEARANCE WITHIN THE CONSTRUCTION WORK ZONE, CLEARANCE FOR ACCESS OR JOBSITE SAFETY. NO OTHER PRUNING WILL BE ALLOWED WITHOUT AUTHORIZATION FROM THE SAWS CONSTRUCTION INSPECTOR.
- 3. PRUNING SHALL CONSIST OF MINOR BRANCH OR ROOT REMOVAL.
- 4. BRANCHES STUBS 6" IN DIAMETER OR GREATER SHALL NOT BE PRUNED WITHOUT PRIOR APPROVAL OF THE SAWS CONSTRUCTION INSPECTOR.
- 5. BRANCHES OR ROOTS 6" IN DIAMETER OR GREATER SHALL NOT BE PRUNED WITHOUT PRIOR APPROVAL OF THE SAWS CONSTRUCTION INSPECTOR.
- 6. REPAIR PRESERVED TREES WHEN DAMAGED BY CONSTRUCTION OPERATIONS IN A MANNER ACCEPTABLE TO THE OWNER. REPAIR DAMAGED TREES PROMPTLY TO PREVENT PROGRESSIVE DETERIORATION CAUSED BY DAMAGE. ALL BROKEN BRANCHES AND EXPOSED ROOTS OF MITIGATION, PROTECTED, OR HERITAGE TREES SHALL BE CUT CLEANLY. IN CASE OF OAK SPECIES, IN ORDER TO PREVENT INFECTION BY OAK WILT SPORES, WOUNDS MUST BE PAINTED WITH AN ACCEPTABLE WOUND DRESSING WITHIN 30 MINUTES.
- 7. REPLACE TREES SCHEDULED TO REMAIN AND DAMAGED BEYOND REPAIR BY CONSTRUCTION OPERATIONS, AS DETERMINED BY THE OWNER, WITH TREES OF SIMILAR SIZE AND SPECIES.

TREE MITIGATION

- 1. MITIGATION FOR AUTHORIZED TREE REMOVAL WILL BE PERFORMED BY SAWS UNDER A SEPARATE CONTRACT. NO EXPENSE TO THE CONTRACTOR.
- 2. MITIGATION FOR UNAUTHORIZED TREE REMOVAL BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR IN AN AMOUNT EQUAL TO \$140.00 PER TREE INCH DIAMETER REMOVED OUTSIDE THE CONSERVATION EASEMENT AND \$250.00 PER TREE INCH DIAMETER REMOVED INSIDE THE CONSERVATION EASEMENT. PAYMENT OF CONTRACT OR MITIGATION WILL BE INVENTORIED BY THE SAWS CONSTRUCTION INSPECTOR AND SHALL BE WITHHELD FROM THE CONSTRUCTION CONTRACT PAYMENT.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PENALTIES OR FINES OR EACH UNAUTHORIZED TREE REMOVAL IN ACCORDANCE WITH THE CITY OF SAN ANTONIO VERIFIED DEVELOPMENT CODE SECTION 35-493.

TREE PROTECTION NOTES

- 1. CONTRACTOR SHALL BE LICENSED WITH THE CITY OF SAN ANTONIO FOR TREE MAINTENANCE, PRUNING AND/OR REMOVAL OR SHALL RETAIN A LICENSED SUBCONTRACTOR TO PERFORM TREE MAINTENANCE, PRUNING AND/OR REMOVAL.
- 2. PROTECT DESIGNATED EXISTING TREES AS SHOWN ON PLANS AND WITHIN ROW OR PROPOSED EASEMENT. ALL TREES TO BE PRESERVED AS PART OF THE PROJECT SHALL BE PROTECTED AGAINST INJURY OR DAMAGE, INCLUDING CUTTING, SOIL COMPACTION, BREAKING OR SKINNING OF ROOTS, TRUNKS, OR BRANCHES DURING CONSTRUCTION OPERATIONS BY FENCING AS DESCRIBED BELOW. THE TREE PROTECTION SHALL BE PLACED BEFORE ANY EXCAVATION OR GRADING BEGINS AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION WORK. PROTECTION WILL ENCOMPASS THE ROOT PROTECTION ZONE WHICH WILL BE AT MINIMUM, ONE FOOT RADIUS PER INCH DIAMETER OF THE TREE TRUNK AT 4 ½ FEET ABOVE GROUNDS. NO MATERIAL SHALL BE STORED OR CONSTRUCTION OPERATION SHALL BE CARRIED ON WITHIN THE TREE PROTECTION FENCING, UNLESS AUTHORIZED BY THE OWNER. THE PROTECTION SHALL REMAIN UNTIL ALL WORK IS COMPLETED.
- 3. PROTECT DESIGNATED TREES WITH A TEMPORARY MINIMUM 4 FEET HIGH ENCLOSURE. (SEE TREE PROTECTION DETAILS TPA)
- 4. ERECT TEMPORARY FENCING BEFORE COMMENCING SITE PREPARATION WORK. MAINTAIN FENCING DURING FULL CONSTRUCTION PERIOD. REMOVE TEMPORARY FENCING WHEN NO LONGER NEEDED OR WHEN ACCEPTABLE TO THE OWNER.
- 5. PROTECT ALL EXISTING LANDSCAPE AND TREES FROM CHANGES OF SOIL PH FACTOR BY PREVENTING DISPOSAL OF LIME BASED MATERIALS SUCH AS CONCRETE, PLASTER, LIME TREATMENT AT PAVEMENT SUBGRADE, AND APPURTENANCES IN OR IN PROXIMITY TO PRESERVED AREAS.
- 6. PROTECT ALL EXISTING TREES NEAR AREAS TO BE STABILIZED FROM UNDERGROUND CONTAMINANTS BY PLACING A 6 mil (0.15 mm) PLASTIC FILM BARRIER ALONG EXPOSED VERTICAL CUT EXTENDING A MINIMUM OF 12 INCHES (305 mm) INTO UNDISTURBED SUBGRADE BELOW DEPTH OF STABILIZATION.
- 7. CONTRACTOR SHALL MEET WITH COSA TREE INSPECTOR PRIOR TO THE START OF CONSTRUCTION TO GO OVER THE METHODS OF MAXIMIZING TREE PRESERVATION WITHIN THE ALLOWABLE CONTRACTOR STAGING/WORK AREA.
- 8. NO SOIL SHALL BE SPREAD, SPOILED, OR OTHERWISE DISPOSED OF, NOR SHALL ANY SOIL BE REMOVED FROM UNDER ANY TREE WITHIN THE DRIP LINE.
- 9. PROTECT ALL EXISTING TREES FROM STRANGLING BY NOT TYING ROPES OR GUY WIRES TO TRUNKS OR LARGE BRANCHES.
- 10. INTERFERING BRANCHES OF PRESERVED TREE MUST REMAIN PERVIOUS.
- 11. BORE UNDER DESIGNATED SIGNIFICANT TREES AS SHOWN ON THE PLANS.
- 12. THE PROPOSED FINISHED GRADE AND ELEVATION OF LAND WITHIN THE ROOT PROTECTION ZONE OF ANY TREE TO BE PRESERVED SHALL NOT BE RAISED OR LOWERED MORE THAN THREE (3) INCHES UNLESS WELLING AND RETAINING METHODS ARE ALLOWED IN THE ROOT PROTECTION ZONE.
- 13. THE ROOT PROTECTION ZONE FOR EACH PRESERVED TREE MUST REMAIN PERVIOUS.
- 14. REPAIR AND REPLACEMENT OF PRESERVED TREES DAMAGED BY CONSTRUCTION OPERATIONS LACK OF ADEQUATE PROTECTION DURING CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 15. TREES SPECIALLY DESIGNATED TO REMAIN SHALL BE PRESERVED BY THE CONTRACTOR EVEN IF ALTERNATE CONSTRUCTION TECHNIQUES MUST BE UTILIZED. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR THIS INSTALLATION.
- 16. VEHICULAR AND EQUIPMENT PARKING AND MATERIAL STORAGE SHALL NOT BE LOCATED WITHIN THE RPZ OF PROTECTED TREES.
- 17. THE CONSTRUCTION EASEMENT IS PROVIDED TO THE CONTRACTOR FOR STAGING, ACCESS, ADDITIONAL OPERATING ROOM, AND SPOIL/MATERIAL STORAGE. TREE REMOVAL OF PROTECTED TREES WITHIN THE CONSTRUCTION EASEMENT WILL NOT BE ALLOWED UNLESS ACCESS IS NOT OTHERWISE ACHIEVABLE AS DETERMINED BY THE SAWS CONSTRUCTION INSPECTOR. A MEANDERING ACCESS ROUTE WILL BE PROMOTED TO AVOID TREE REMOVAL.
- 18. CONTRACTOR SHALL PROTECT ALL TREES WHENEVER POSSIBLE. DAMAGE TO TREES SHOWN ON PLANS TO BE SAVED WILL BE MITIGATED AT THE CONTRACTOR'S EXPENSE PER MOST CURRENT CITY OF SAN ANTONIO TREE ORDINANCE.
- 19. ALL OAK CUTS AND WOUNDS ARE TO BE PAINTED WITHIN 30 MINUTES.
- 20. TREES, SHRUBS, OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE CITY ARBORIST INSPECTOR.
- 21. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- 22. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. CONTRACTOR SHALL CONTACT THE CITY ARBORIST AT 207-0278 FOR GUIDANCE. THE SAWS INSPECTOR SHALL ALSO BE NOTIFIED. TRIMMING AND ANY OTHER ADJUSTMENTS TO EXISTING TREES SHALL BE PERFORMED TO THE SATISFACTION OF THE CITY ARBORIST AND SAWS AT NO ADDITIONAL COST. (NSPI).

TREE CANOPY MITIGATION CALCULATIONS

OUTSIDE FLOODPLAIN

- A. EXISTING CANOPY AREA PRESERVED: 215,430 SF
- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: 25% x 252,096 SF = 63,024 SF

** TREE CANOPY AREA BEING PRESERVED EXCEEDS THE REQUIRED CANOPY AREA; THEREFORE MITIGATION IS NOT REQUIRED.

INSIDE FLOODPLAIN

- A. EXISTING CANOPY AREA PRESERVED: 1,628,232 SF
- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: 80% x 2,602,754 SF = 2,082,203 SF

** TREE CANOPY AREA BEING PRESERVED DOES NOT EXCEED THE REQUIRED CANOPY AREA; THEREFORE MITIGATION IS REQUIRED.

INSIDE 30' WIDE BUFFER

- A. EXISTING CANOPY AREA PRESERVED: 81,698 SF
- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: 80% x 113,746 SF = 90,997 SF

** TREE CANOPY AREA BEING PRESERVED DOES NOT EXCEED THE REQUIRED CANOPY AREA; THEREFORE MITIGATION IS REQUIRED.

MITIGATION REQUIREMENTS

OUTSIDE FLOODPLAIN

NUMBER OF TREES REQUIRED TO BE PLANTED = 0 SF ÷ (875 SF/TREE) = 0 TREES
INCHES OF CANOPY REQUIRED TO BE MITIGATED = 0 TREES x 16.7 INCHES = 0 INCHES

INSIDE FLOODPLAIN

NUMBER OF TREES REQUIRED TO BE PLANTED = 453,972 SF ÷ (875 SF/TREE) = 519 TREES
INCHES OF CANOPY REQUIRED TO BE MITIGATED = 519 TREES x 16.7 INCHES = 8,668 INCHES

INSIDE 30' WIDE BUFFER

NUMBER OF TREES REQUIRED TO BE PLANTED = 9,299 SF ÷ (875 SF/TREE) = 11 TREES
INCHES OF CANOPY REQUIRED TO BE MITIGATED = 11 TREES x 16.7 INCHES = 184 INCHES

HERITAGE TREES

TOTAL HERITAGE INCHES INSIDE FLOODPLAIN = 1,196 INCHES
REQUIRED HERITAGE PRESERVATION = 1,196 INCHES x 100% = 1,196 INCHES
HERITAGE INCHES PRESERVED = 1,196 INCHES

TOTAL MITIGATION

OUTSIDE FLOODPLAIN CANOPY MITIGATION INCHES = 0 INCHES
FLOODPLAIN CANOPY MITIGATION INCHES = 8,668 INCHES
BUFFER CANOPY MITIGATION INCHES = 184 INCHES
HERITAGE TREE (INSIDE FLOODPLAIN) MITIGATION INCHES* = 0 INCHES
*NO MITIGATION REQUIRED FOR HERITAGE TREES OUTSIDE OF FLOODPLAIN (CIP PROJECT)

MITIGATION FEE @ \$200.00/INCH
OUTSIDE FLOODPLAIN CANOPY FEE = 0 INCHES x \$200 = \$0
FLOODPLAIN CANOPY FEE = 8,668 INCHES x \$200 = \$1,733,600
BUFFER CANOPY FEE = 184 INCHES x \$200 = \$36,800
HERITAGE TREE FEE = 0 INCHES x \$200 = \$0
TOTAL MITIGATION FEE = \$1,770,400

OUTSIDE FLOODPLAIN:	
EXISTING CANOPY =	252,096 SF
REQUIRED TO REMAIN (25%) =	63,024 SF
EXISTING TREE CANOPY TO BE REMOVED =	36,666 SF
EXISTING TREE CANOPY TO REMAIN =	215,430 SF
PERCENTAGE AREA PERSERVED =	85%
CANOPY REQUIRED TO BE MITIGATED =	0 SF

INSIDE FLOODPLAIN:	
EXISTING CANOPY =	2,602,754 SF
REQUIRED TO REMAIN (80%) =	2,082,203 SF
EXISTING TREE CANOPY TO BE REMOVED =	974,522 SF
EXISTING TREE CANOPY TO REMAIN =	1,628,232 SF
PERCENTAGE AREA PERSERVED =	63%
CANOPY REQUIRED TO BE MITIGATED =	453,972 SF

INSIDE 30' FLOODPLAIN BUFFER:	
EXISTING CANOPY =	113,746 SF
REQUIRED TO REMAIN (80%) =	90,997 SF
EXISTING TREE CANOPY TO BE REMOVED =	32,048 SF
EXISTING TREE CANOPY TO REMAIN =	81,698 SF
PERCENTAGE AREA PERSERVED =	72%
CANOPY REQUIRED TO BE MITIGATED =	9,299 SF

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JEFFREY A. FARNSWORTH P.E.
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DATE: JANUARY 2024

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San Antonio, TX 78216

No.	Revision	By	Date

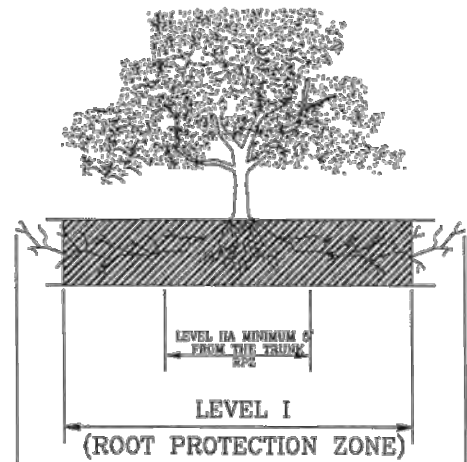


SAN ANTONIO WATER SYSTEM

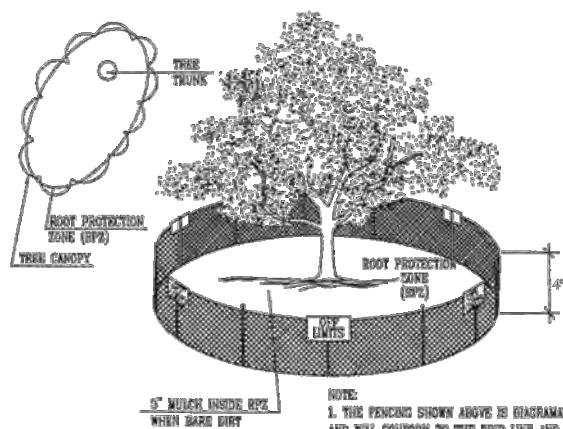
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION NOTES AND SUMMARY TABLE
(SHEET 1 OF 1)

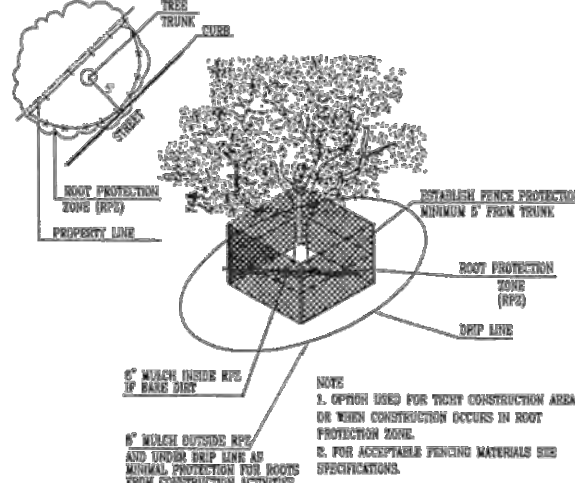
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DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



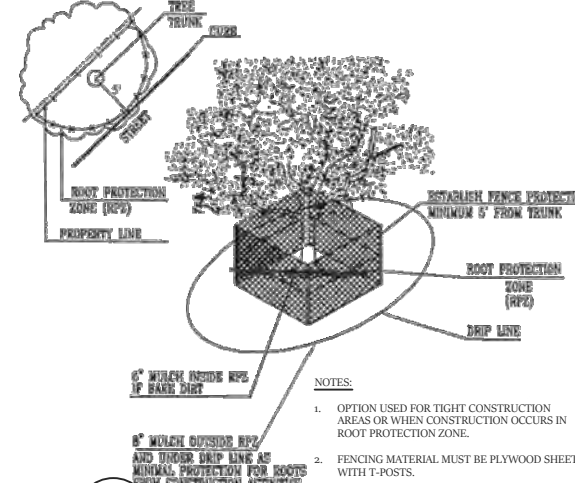
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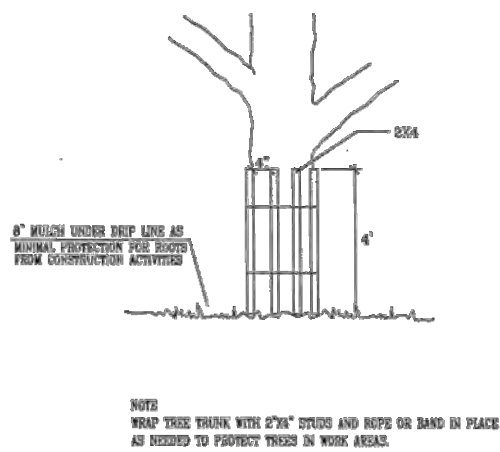
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N. T. S.



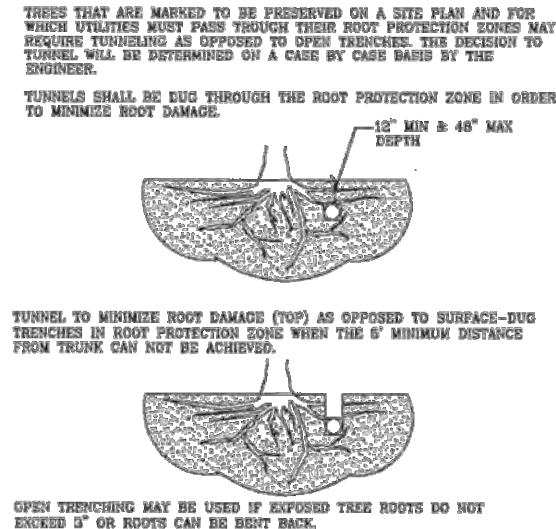
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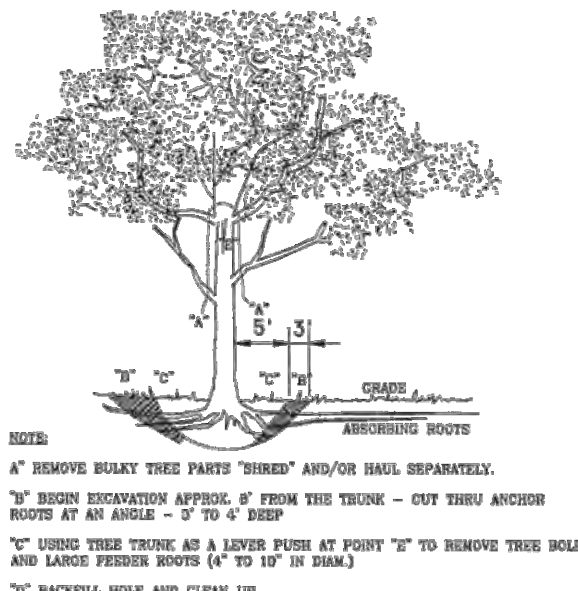
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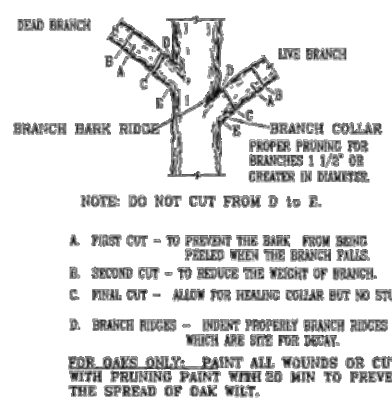
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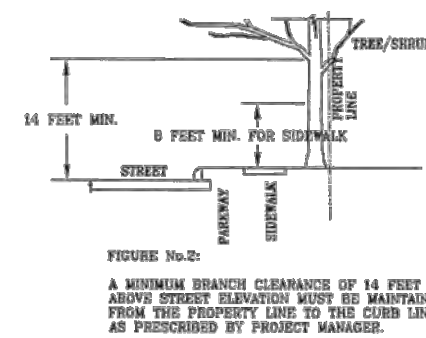
1.2 BORING THRU TREE ROOT ZONE
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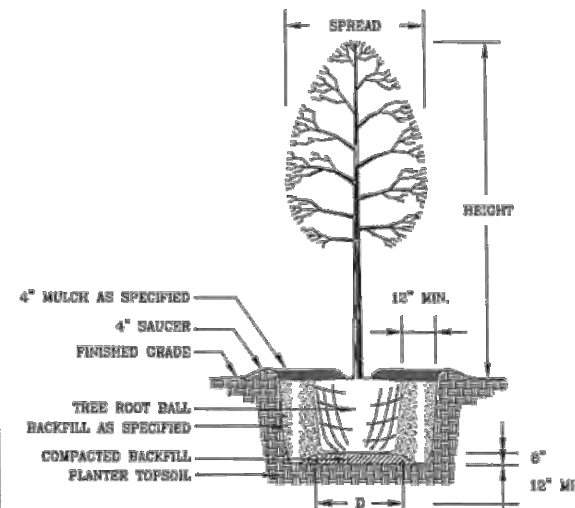
1.3 TREE REMOVAL DIAGRAM
N. T. S.



1.4 BRANCH PRUNING DETAIL
N. T. S.



1.5 BRANCH CLEARANCE DETAIL
N. T. S.



1.6 NEW TREE PLANTING DETAIL
N. T. S.

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San Antonio, TX 78216

No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION DETAILS (SHEET 1 OF 1)

DATE: JANUARY 2024

DESIGN: KHA

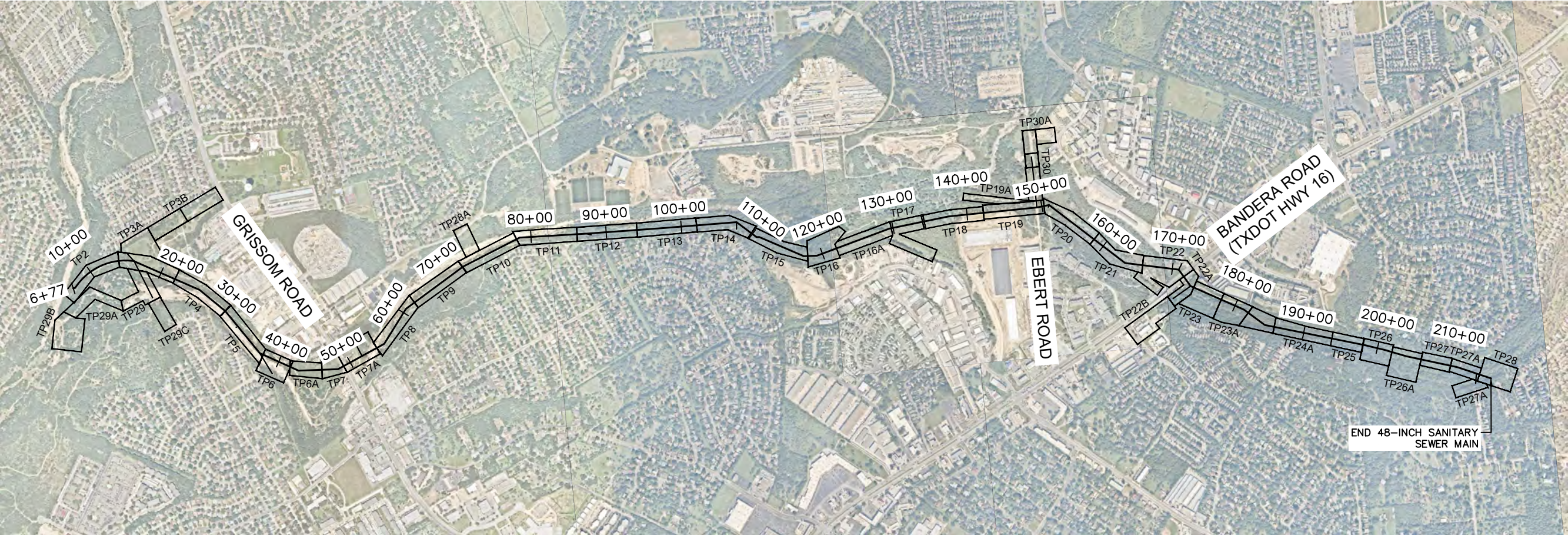
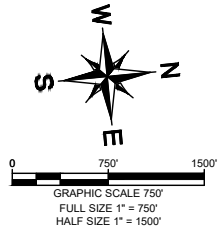
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CHECKED: KHA

SAWS PROJECT NO. 22-4501

KHA PROJECT NO. 068665068

SHEET NO. TPB



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1/25/2023 9:42 AM
PLOTTED BY
DWG NAME
LAST SAVED

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No.	Revision	By	Date

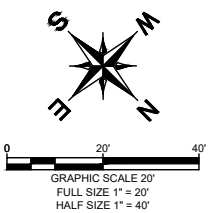
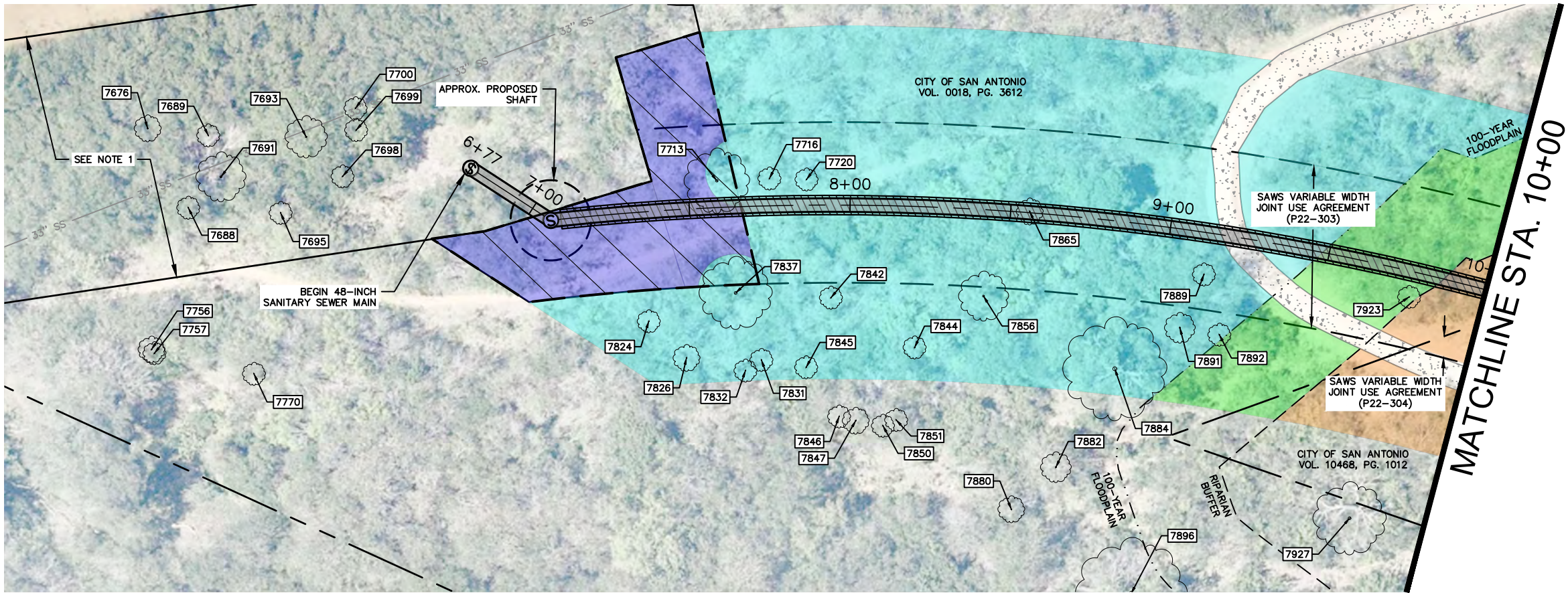


SAN ANTONIO
WATER
SYSTEM

**W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET**

**TREE PROTECTION
OVERALL LAYOUT (SHEET
1 OF 41)**

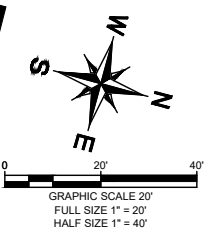
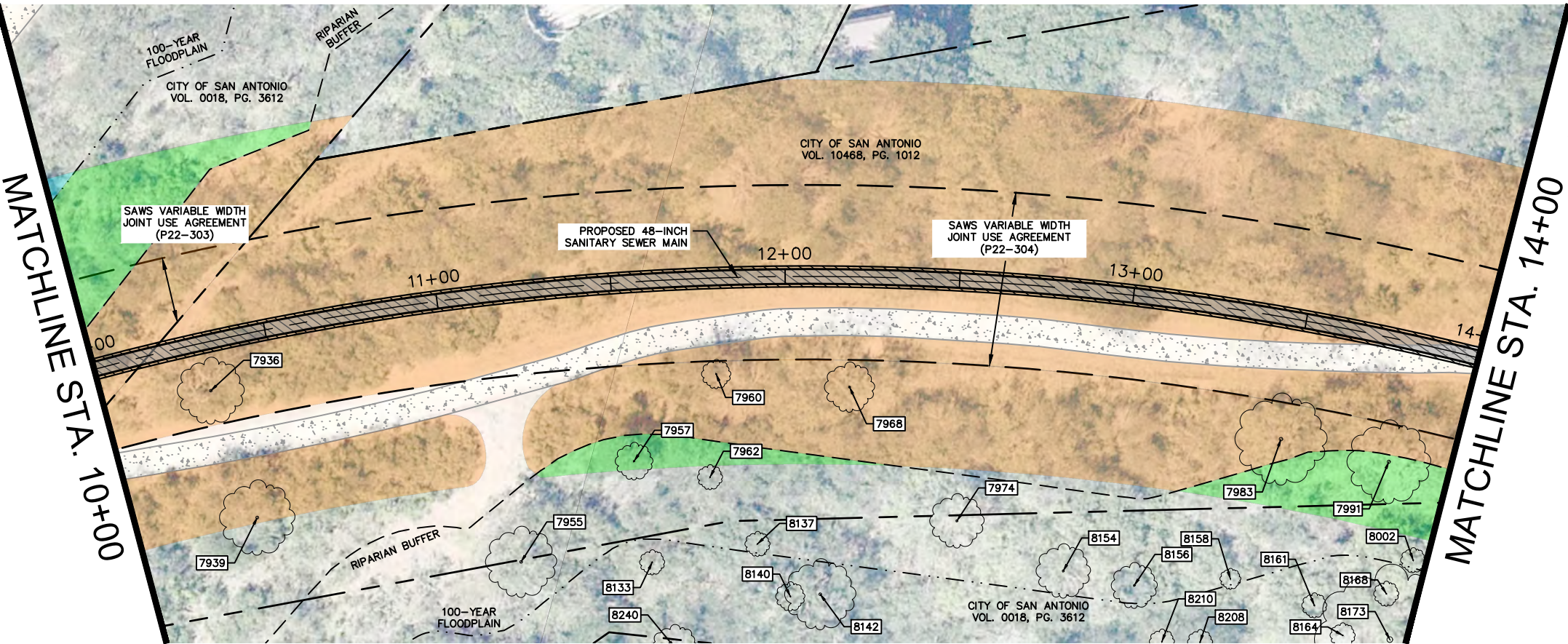
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DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



- NOTES:
1. TREES IN THIS AREA TO BE REMOVED BY OTHERS FOR W52 PROJECT CONSTRUCTION.
 2. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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DATE: JANUARY 2024

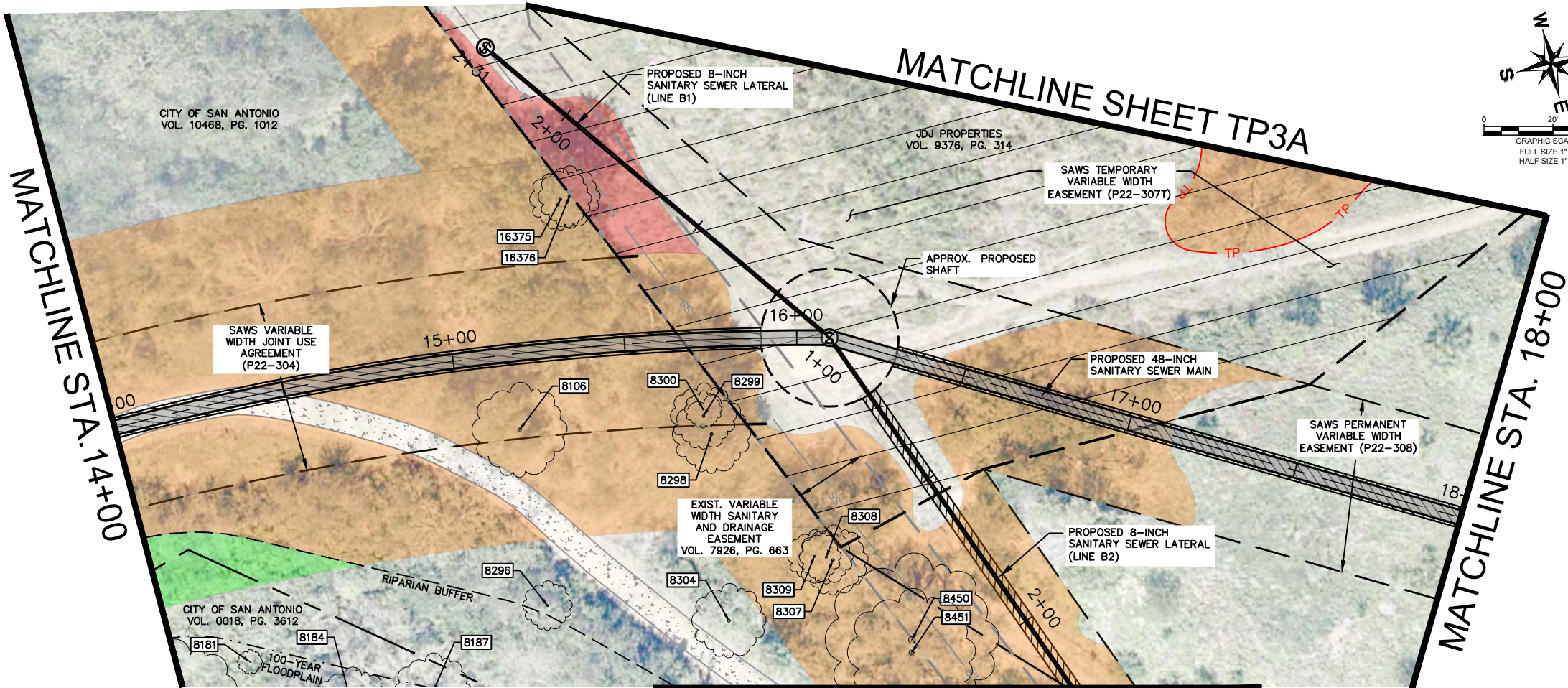
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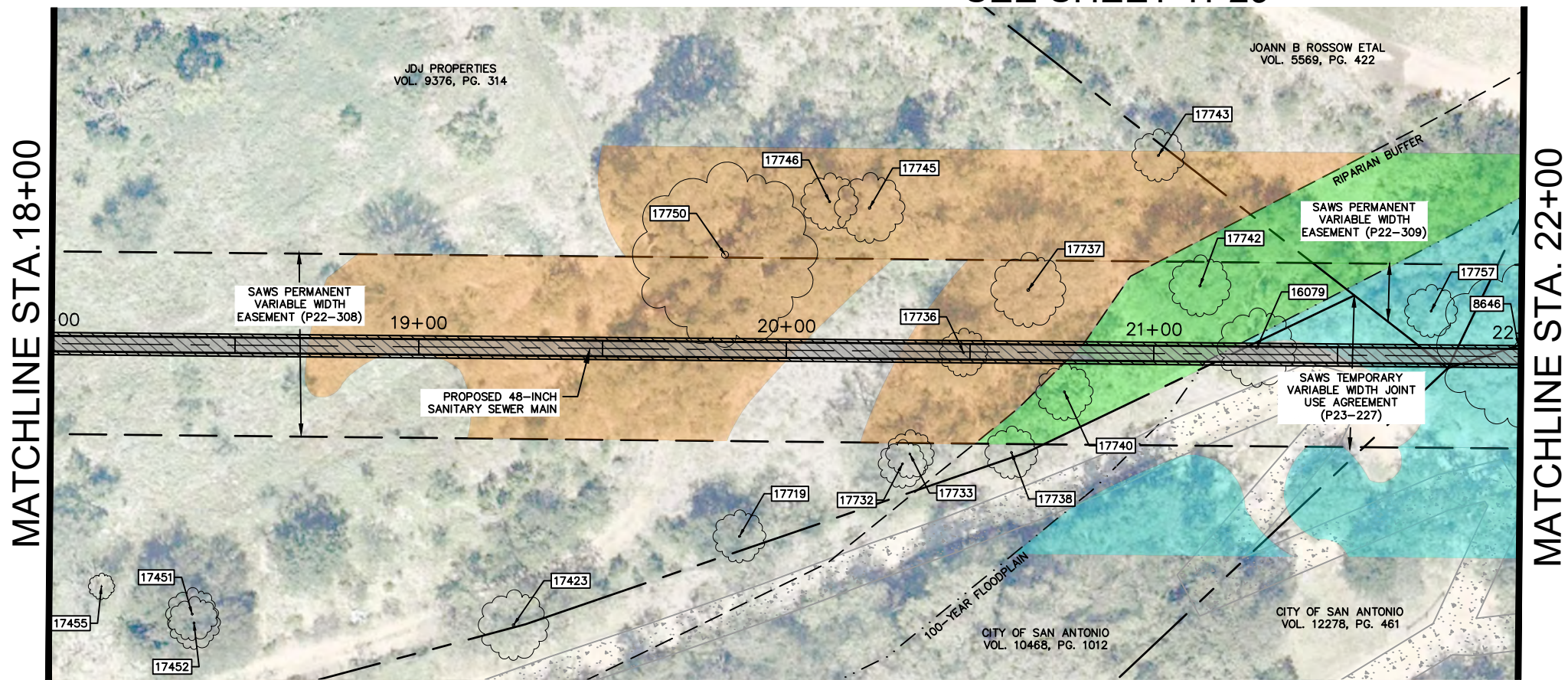
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No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 2 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	SHEET NO. TP2
CHECKED: KHA	068665068	



MATCHLINE LATERAL B2 STA. 2+24
SEE SHEET TP29



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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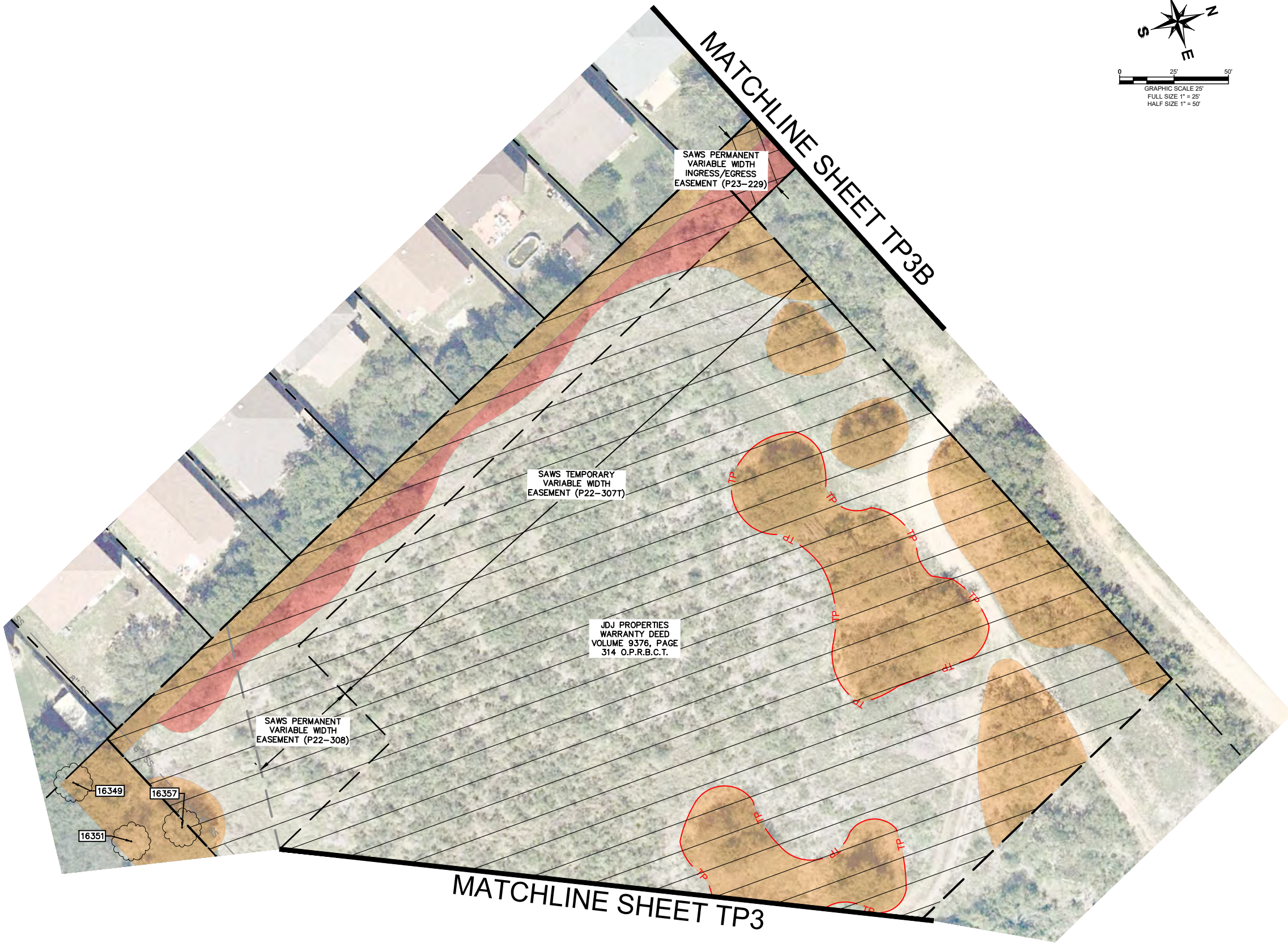
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W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 3 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. TP3
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26–G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 3A OF 41)

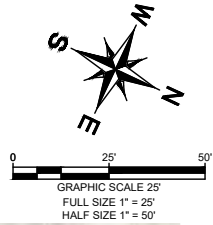
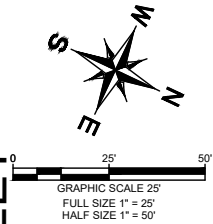
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MATCHLINE THIS SHEET



MATCHLINE SHEET TP3A



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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No.	Revision	By	Date



SAN ANTONIO
WATER
SYSTEM

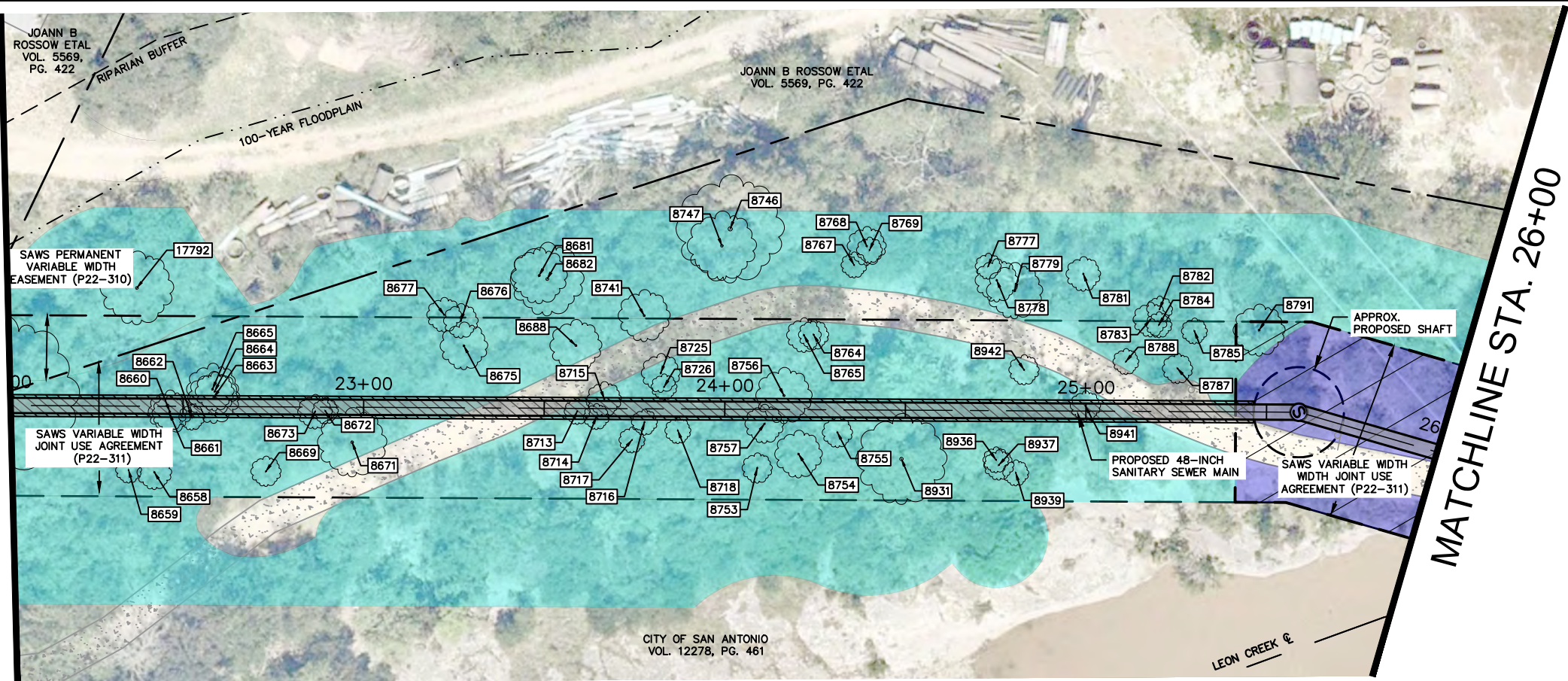
SHEET

TREE PROTECTION
(SHEET 3B OF 41)

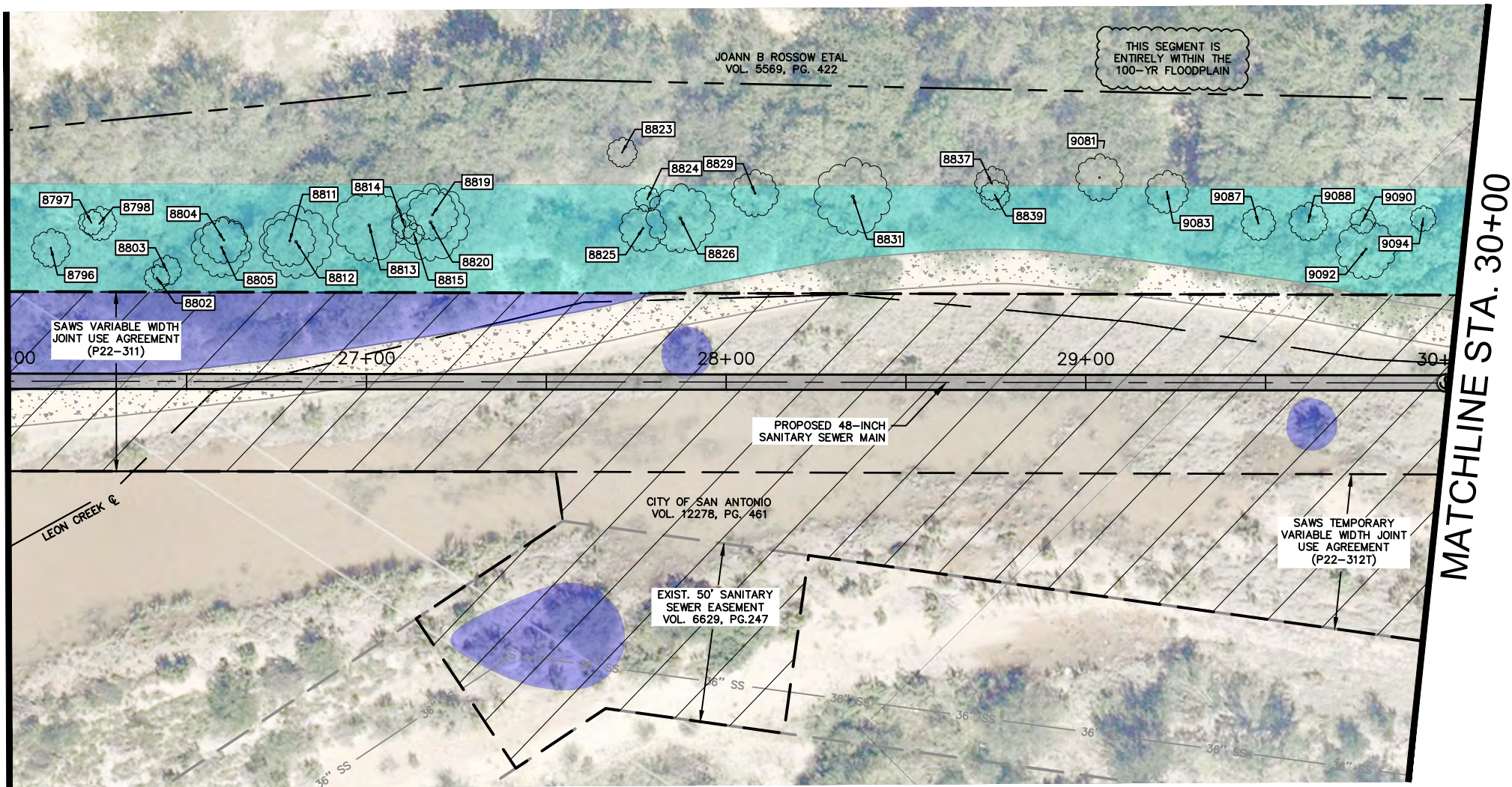
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DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

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KUSA, UTILITIES 06/06/2023 CAD PLANS SHEET TREE SHEETS OUT OF 5.DWG
12/20/23 9:45 AM
PLOTTED BY
DWG NAME
LAST SAVED

MATCHLINE STA. 22+00



MATCHLINE STA. 26+00



MATCHLINE STA. 30+00

NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



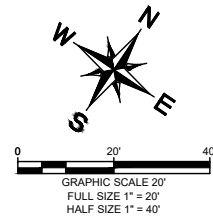
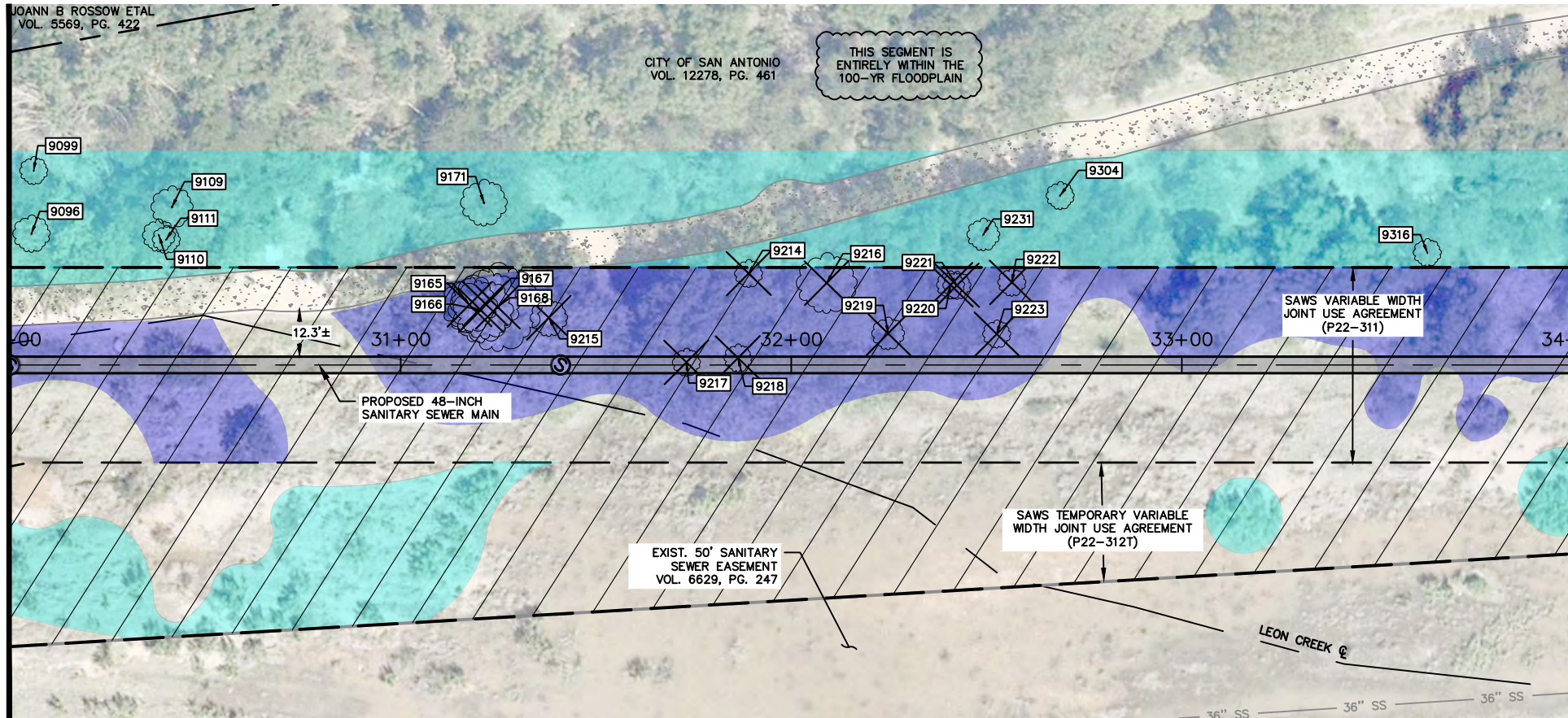
**W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET**

**TREE PROTECTION
(SHEET 4 OF 41)**

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP4
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		

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1/25/2023 9:46 AM
PLOTTED BY
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LAST SAVED

MATCHLINE STA. 30+00

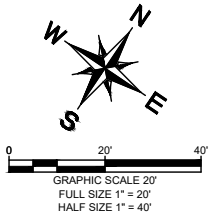


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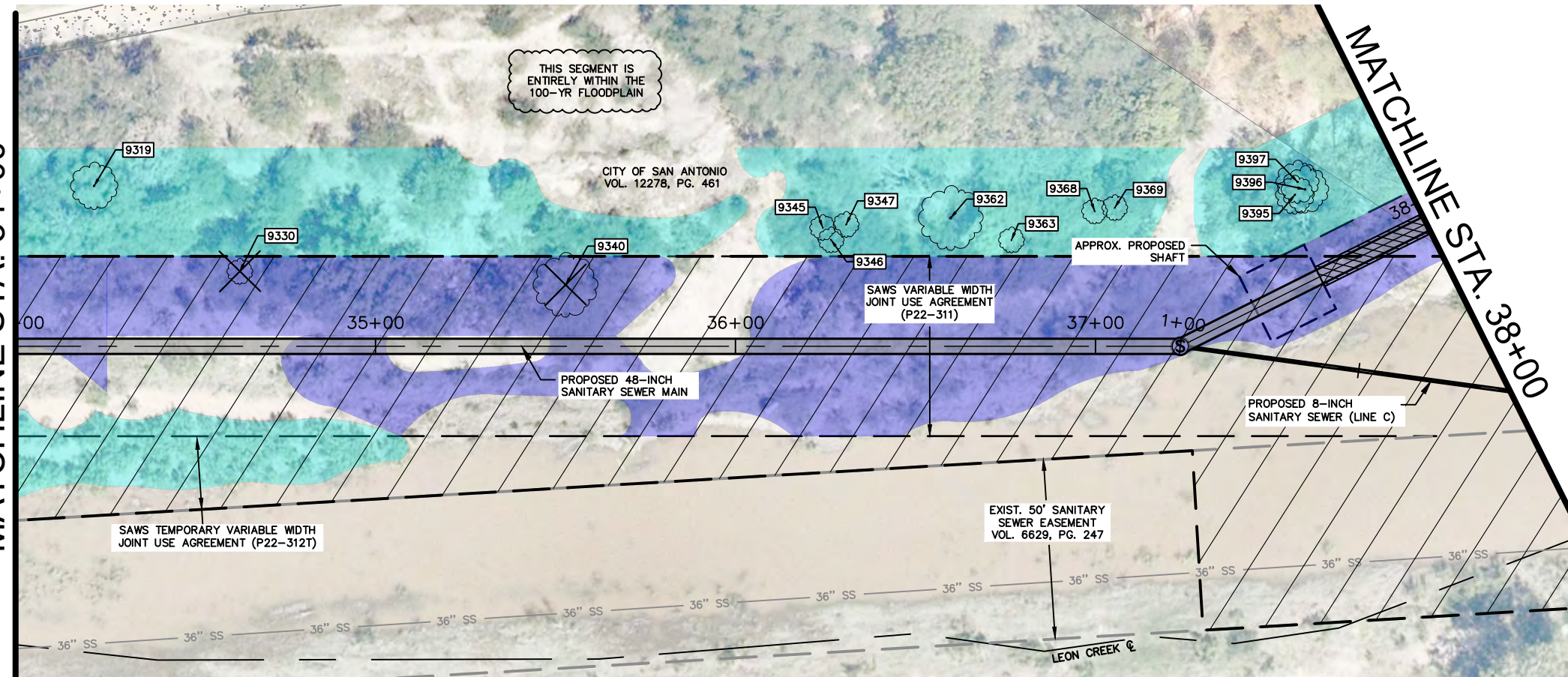
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE STA. 34+00



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

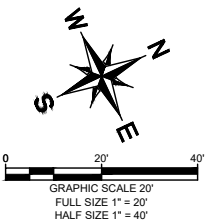


SAN
ANTONIO
WATER
SYSTEM

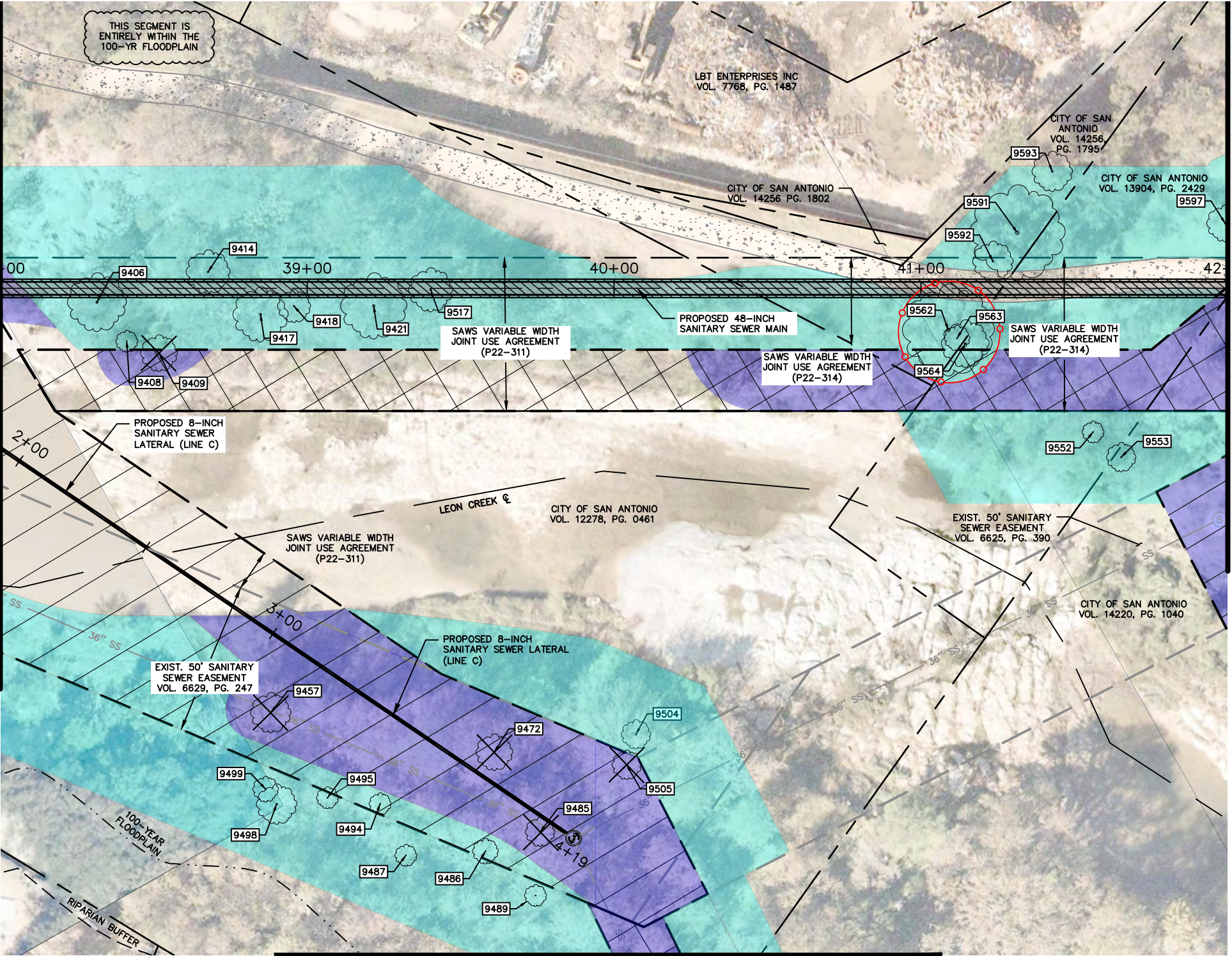
W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 5 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP5
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		



MATCHLINE STA. 38+00



MATCHLINE SEE SHEET TP6A

- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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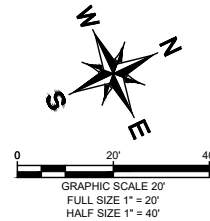
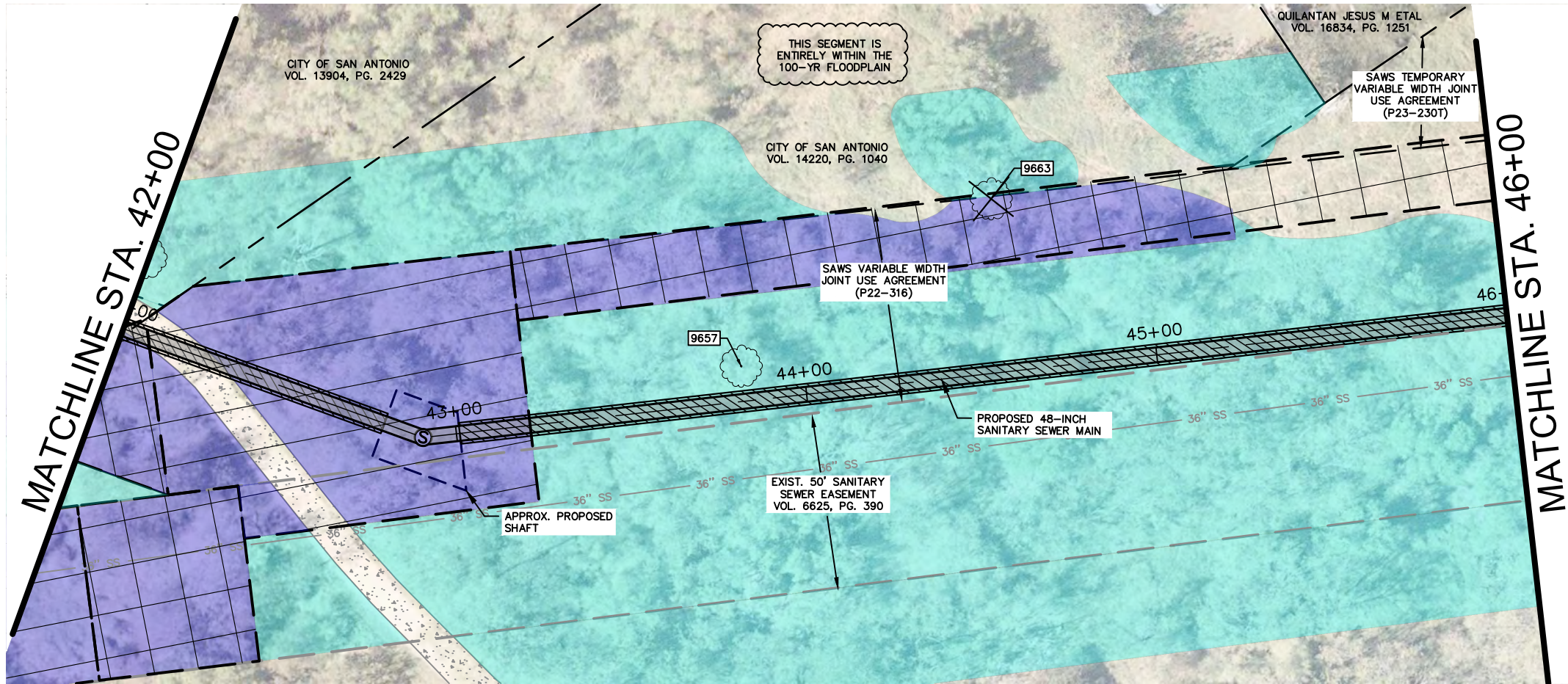
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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

No.	Revision	By	Date

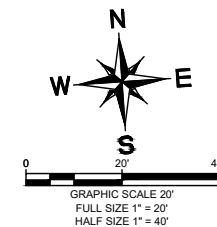
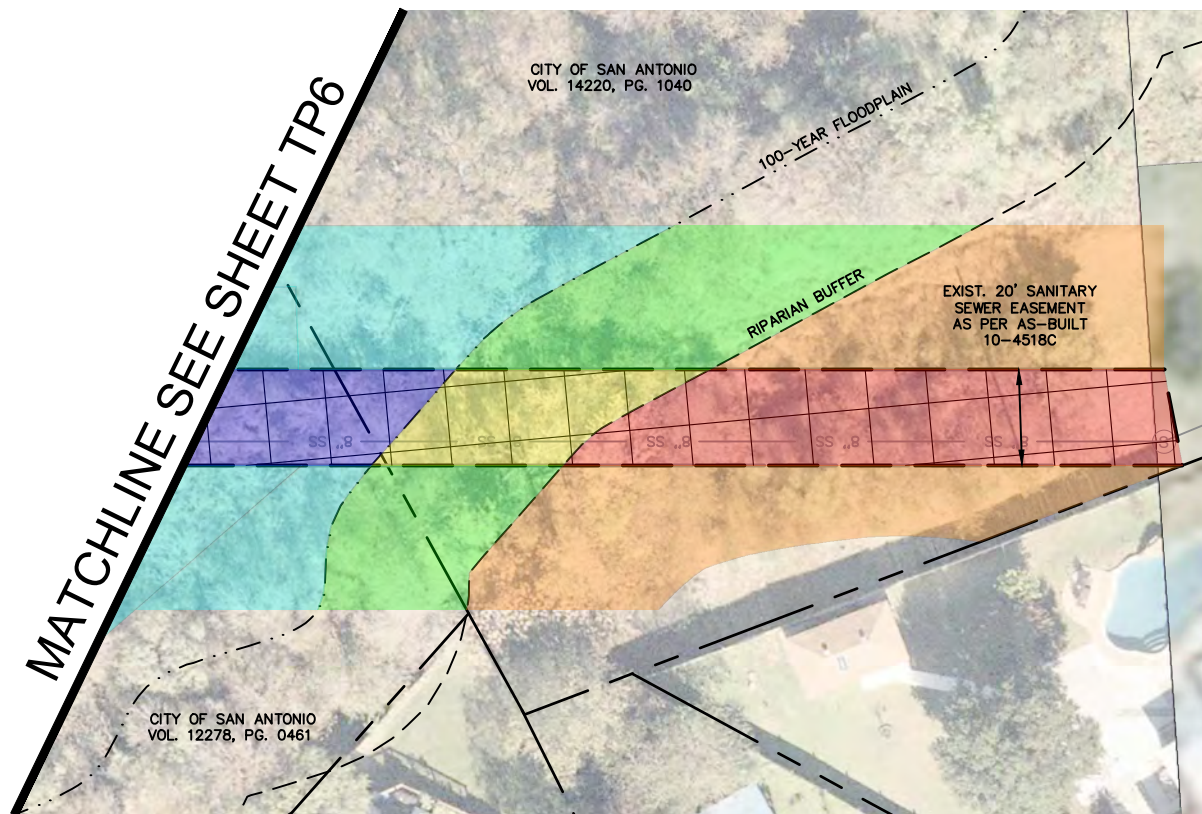
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	TREE PROTECTION (SHEET 6 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP6
CHECKED: KHA		



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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SERIAL NO. 80190
DATE: JANUARY 2024

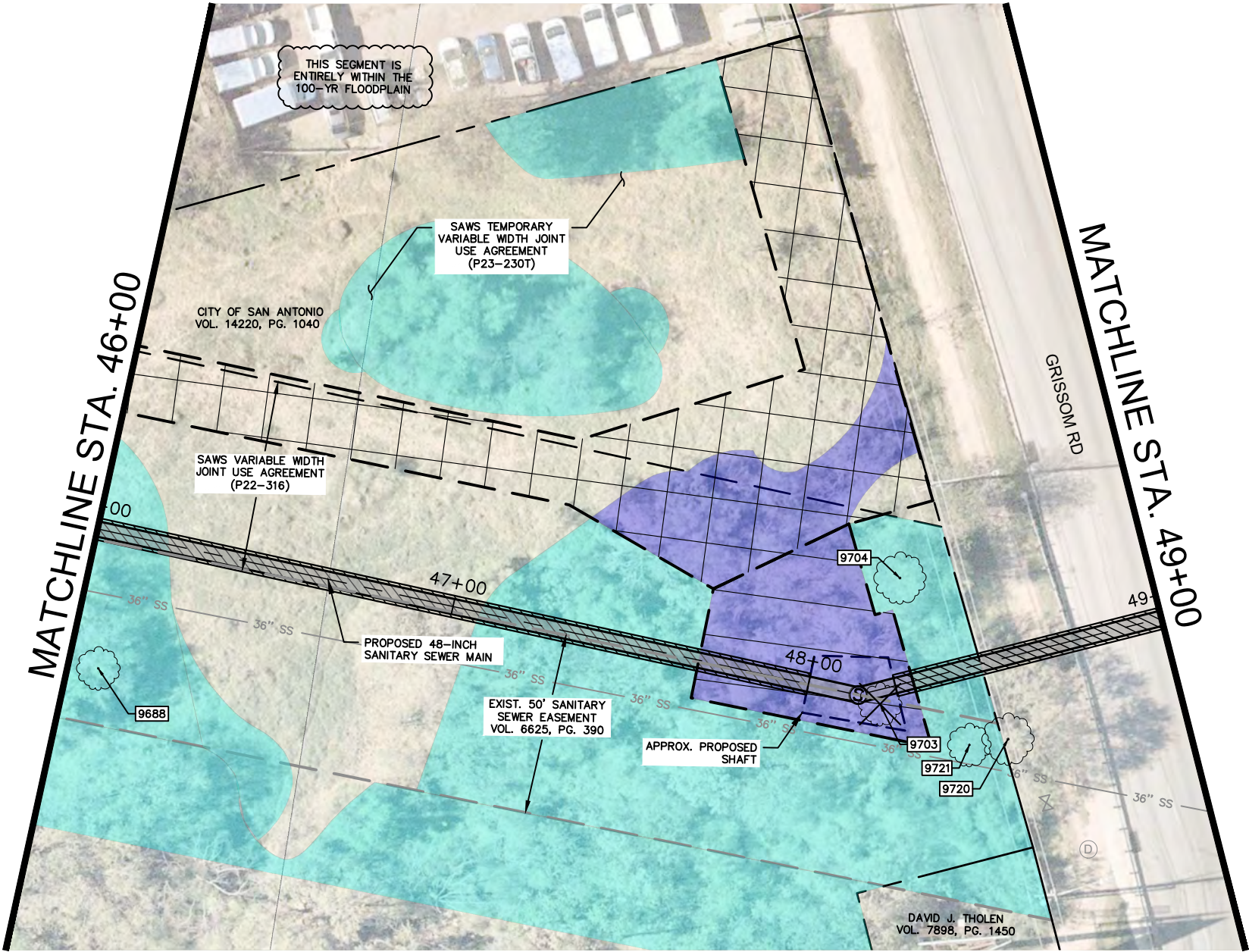
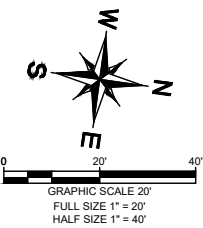
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No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 6A OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	SHEET NO. TP6A
CHECKED: KHA	068665068	



- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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No.	Revision	By	Date



SAN
ANTONIO
WATER
SYSTEM

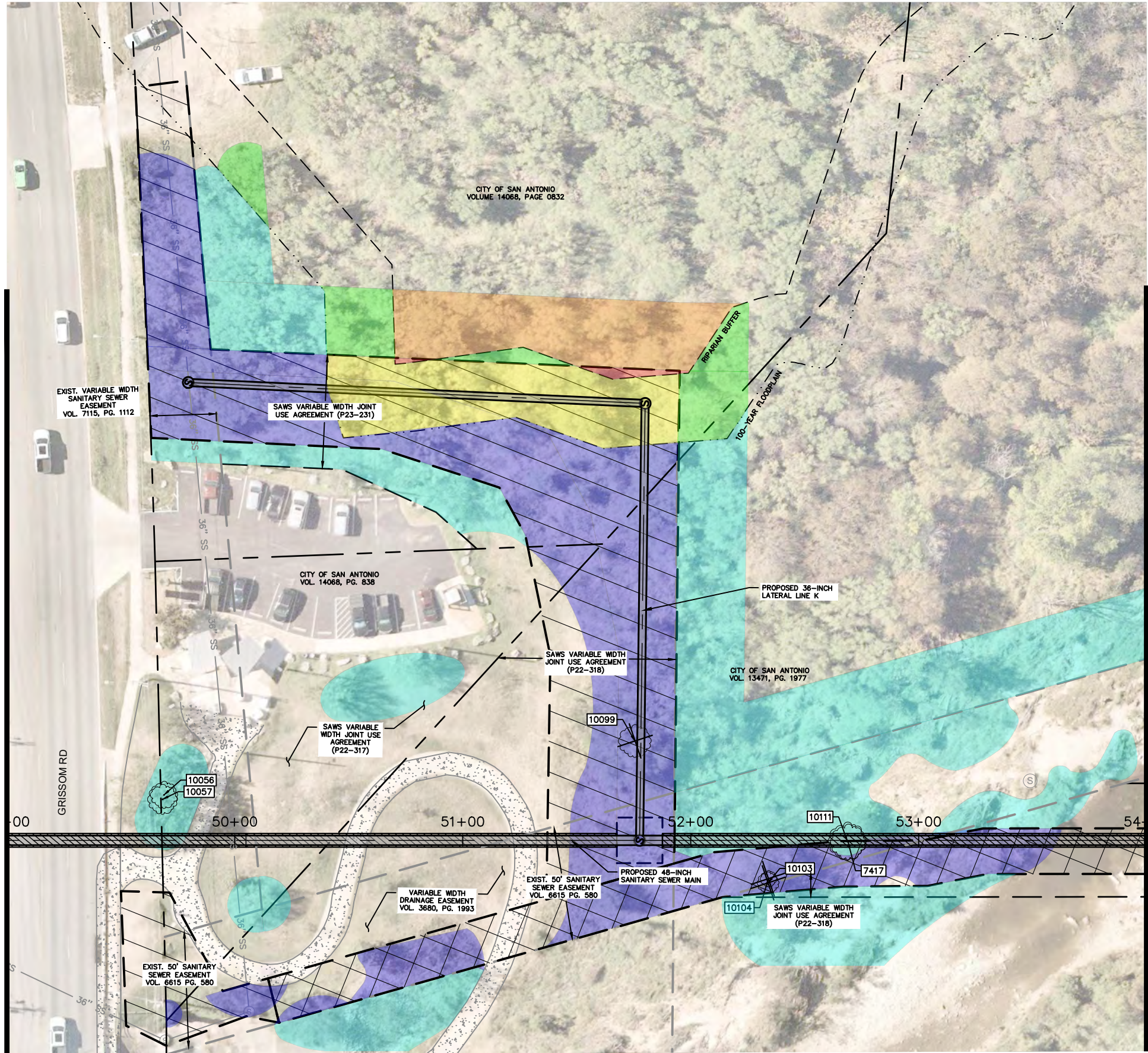
**W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET**

**TREE PROTECTION
(SHEET 7 OF 41)**

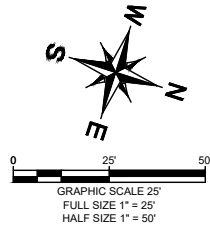
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CHECKED: KHA	068665068	

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1/25/2023 9:45 AM
PLOTTED BY
DWG NAME
LAST SAVED

MATCHLINE STA. 49+00



MATCHLINE STA. 54+00



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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No.	Revision	By	Date

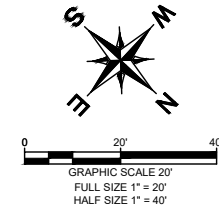
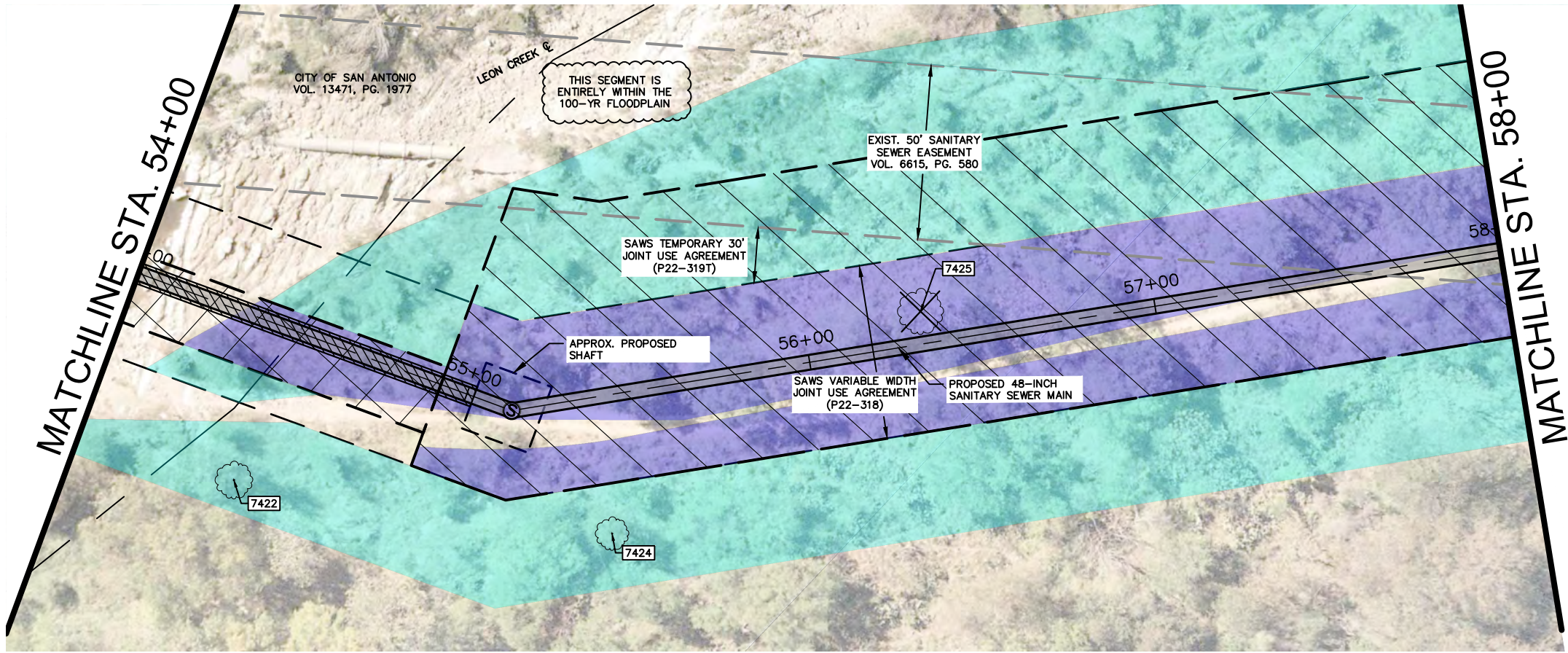


SAN
ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 7A OF 41)

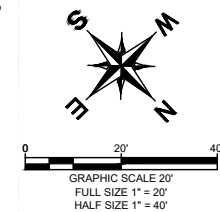
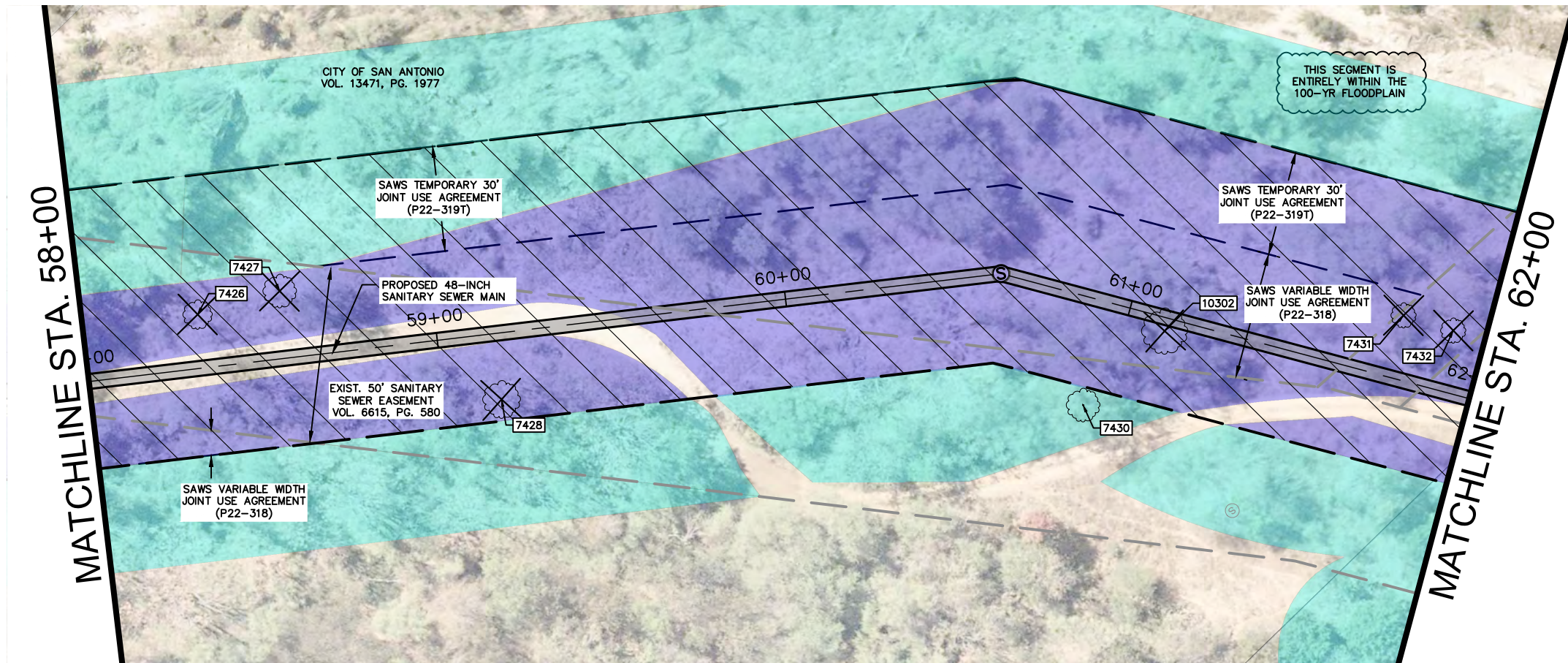
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DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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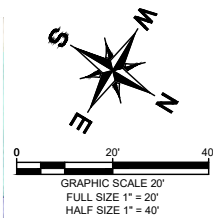
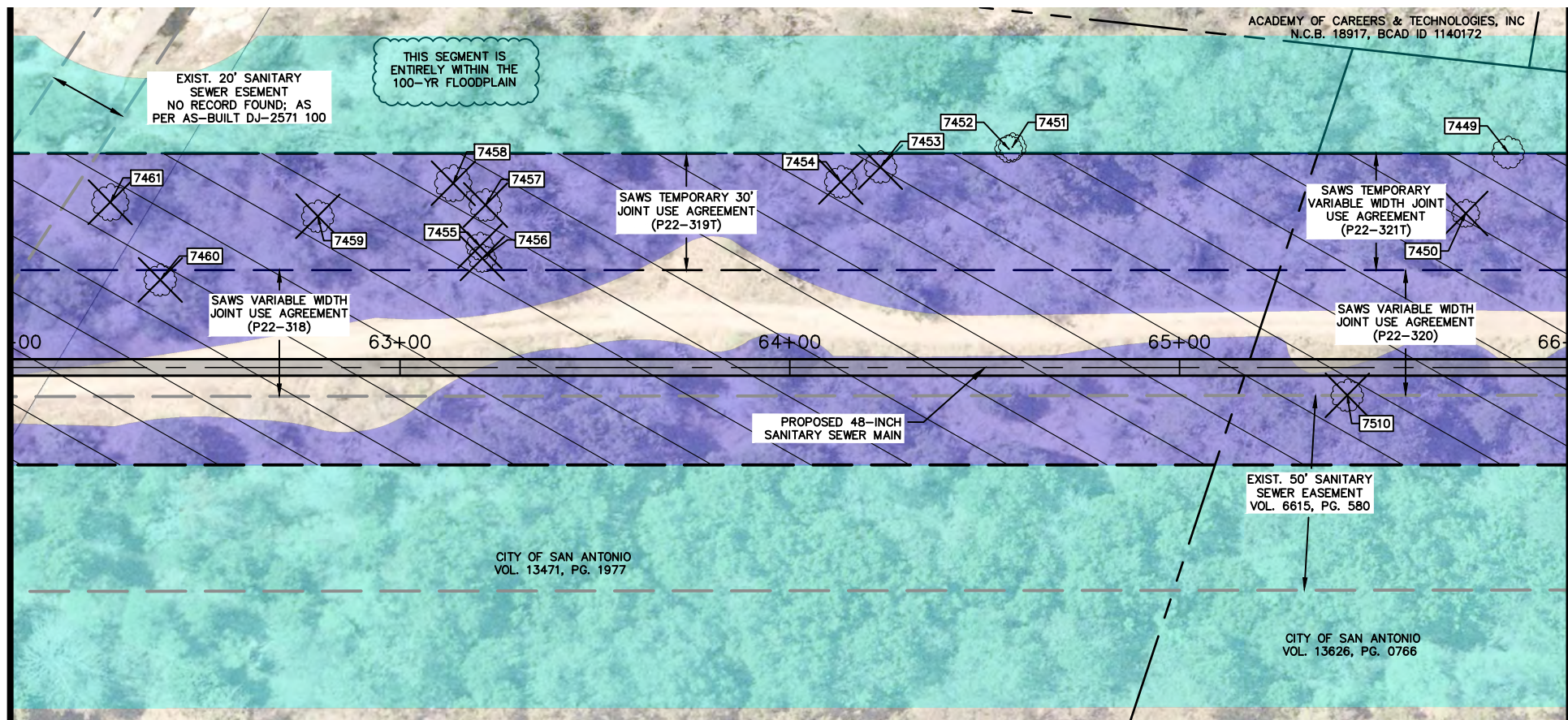
JEFFREY A. FARNSWORTH P.E.
 SERIAL NO. 80190
 DATE: JANUARY 2024

No.	Revision	By	Date

<p>SAN ANTONIO WATER SYSTEM</p>	<p>W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET</p> <p>TREE PROTECTION (SHEET 8 OF 41)</p>	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
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CHECKED: KHA	068665068	<p>SHEET NO.</p> <p>TP8</p>

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LAST SAVED

MATCHLINE STA. 62+00

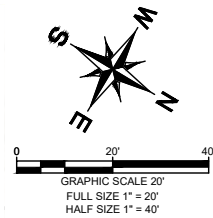


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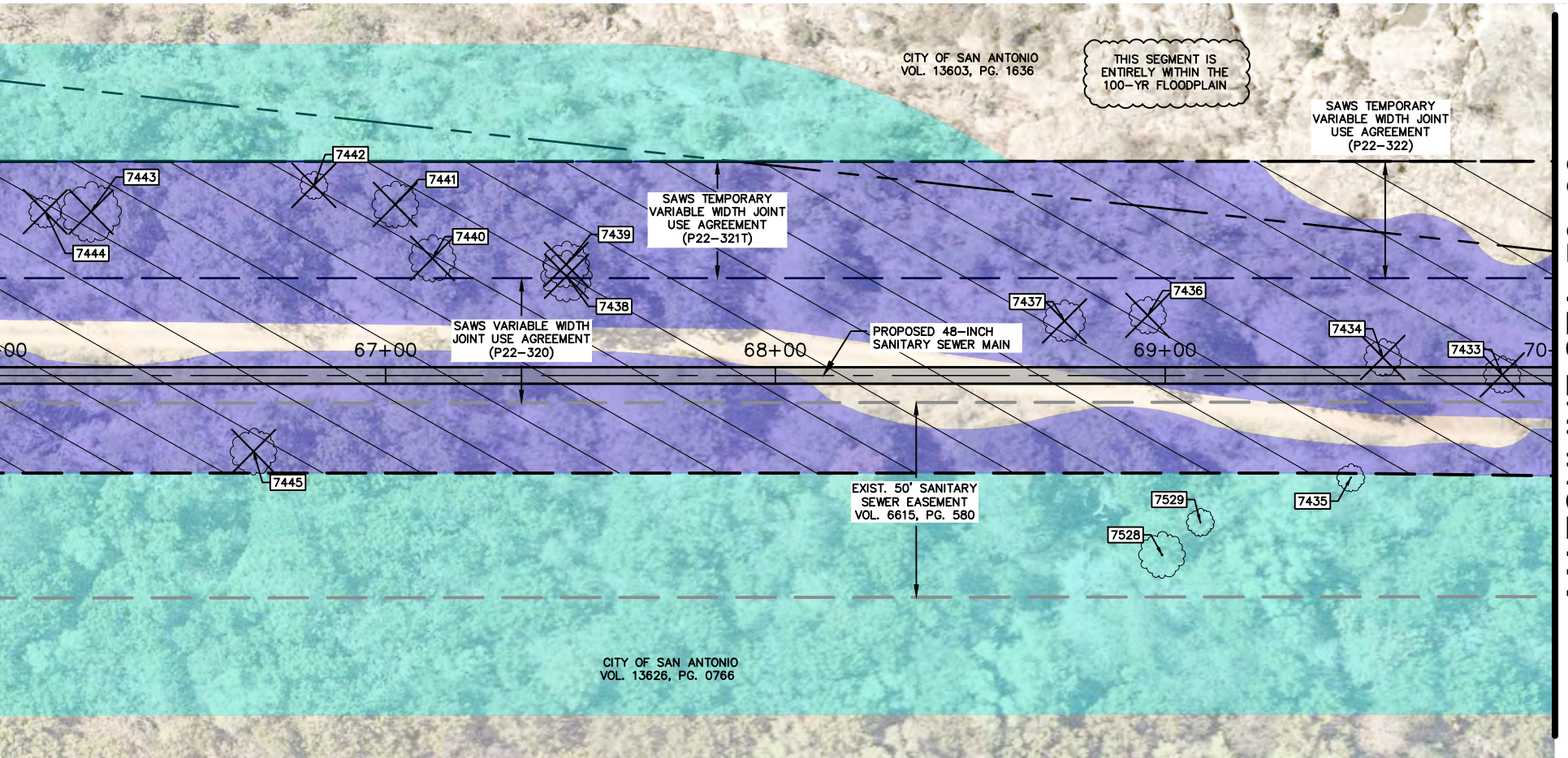
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LEGEND

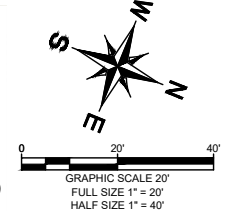
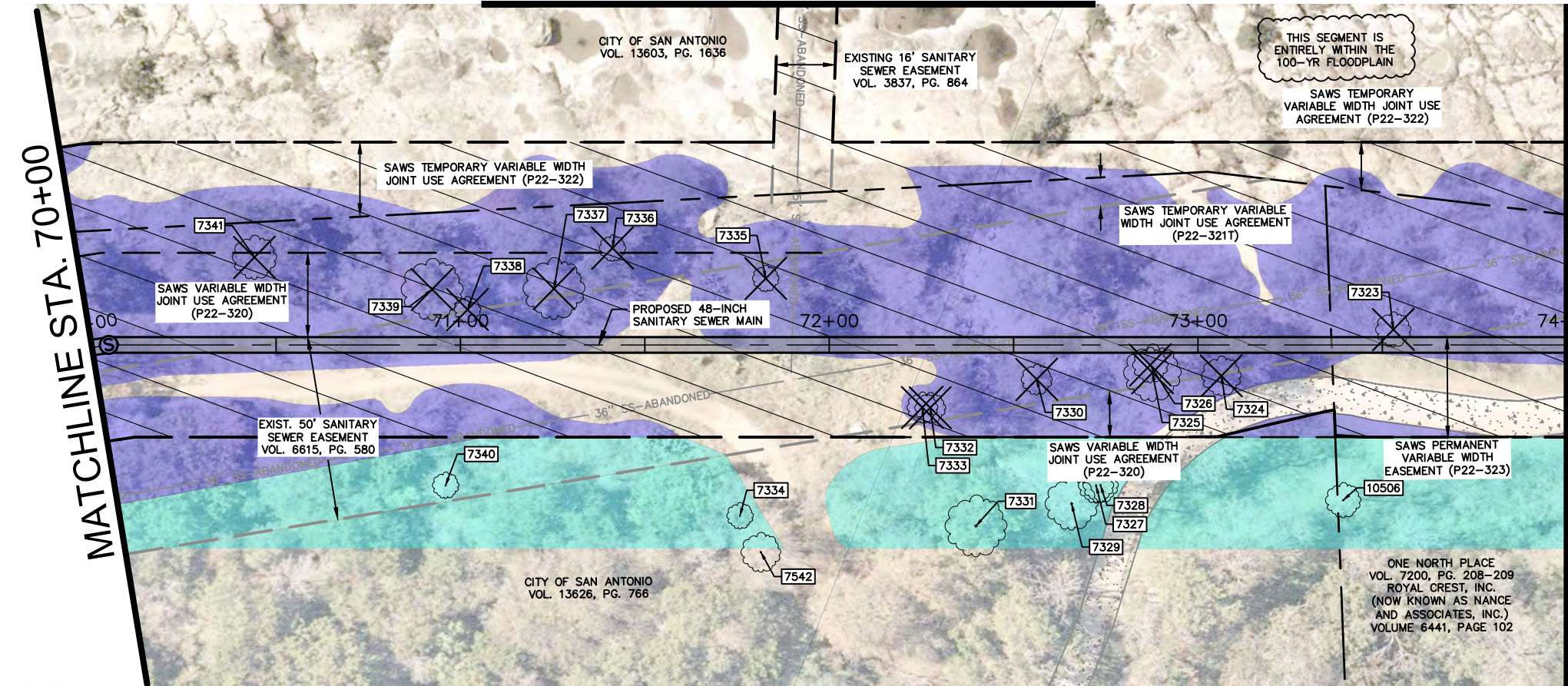
PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
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TREE PRESERVED	
TREE REMOVED	



MATCHLINE STA. 66+00



MATCHLINE SEE SHEET TP28A

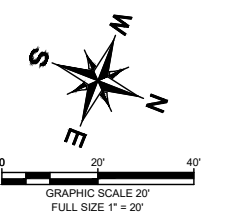
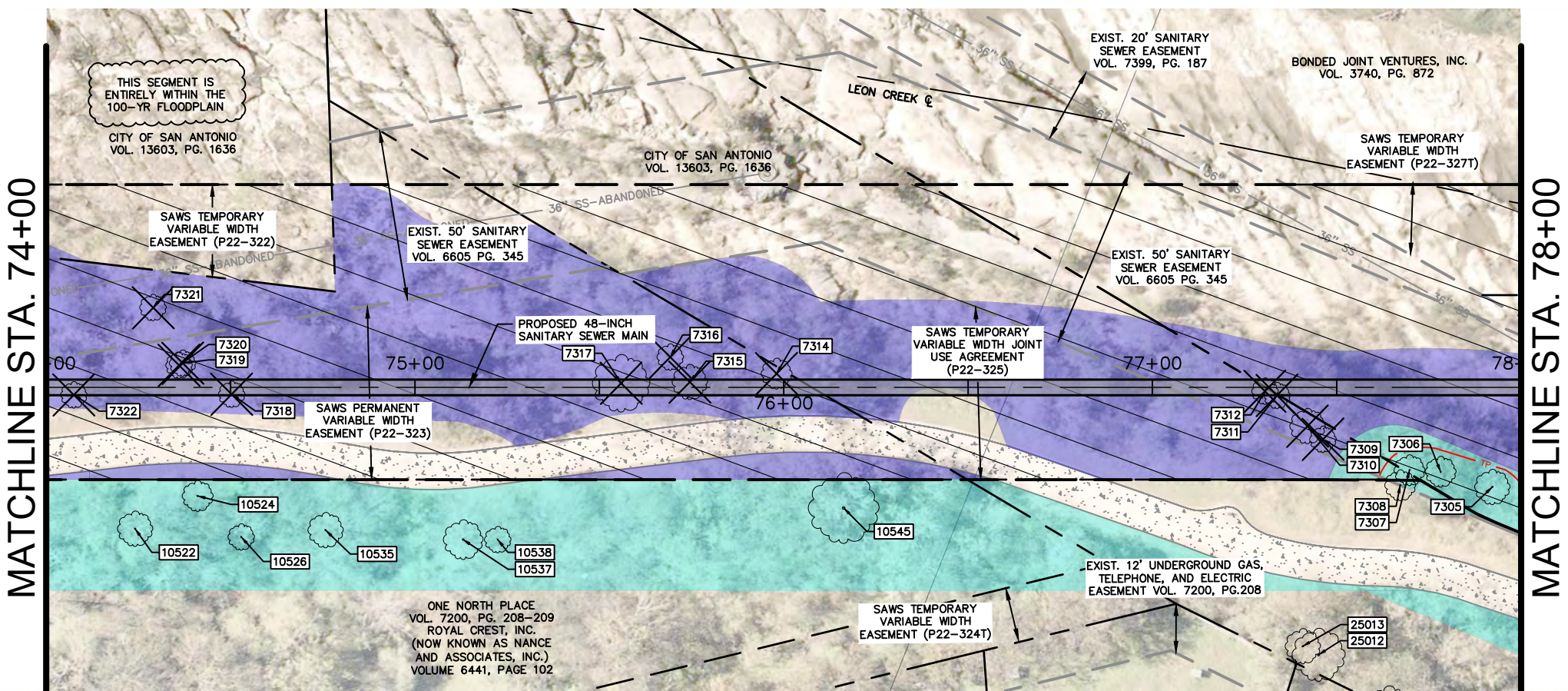


NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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Texas Registered Firm, No. F-928
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

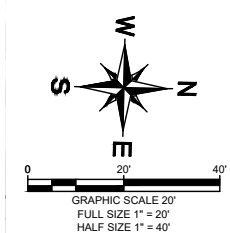
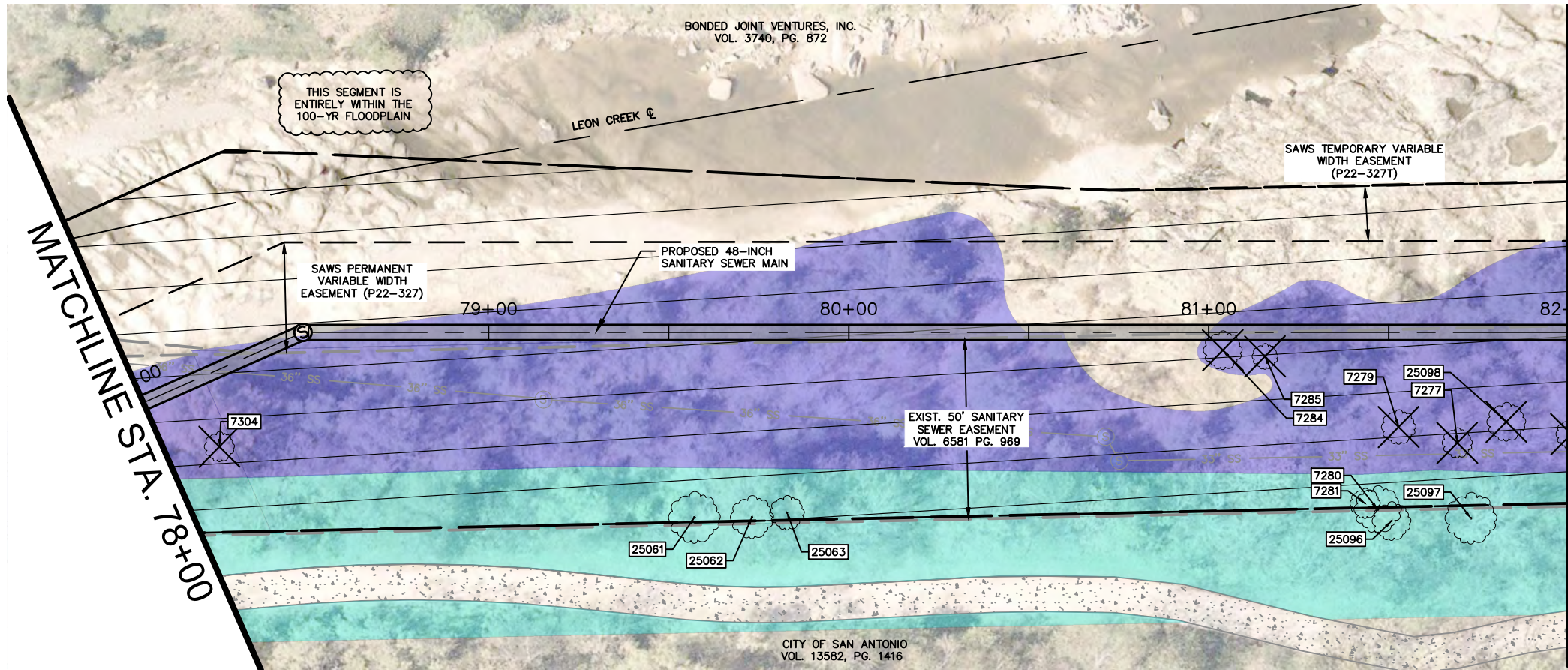
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 10 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP10
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		

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1/25/2023 9:49 AM
PLOTTED BY
DWG NAME
LAST SAVED

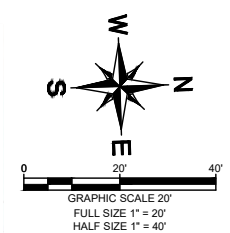
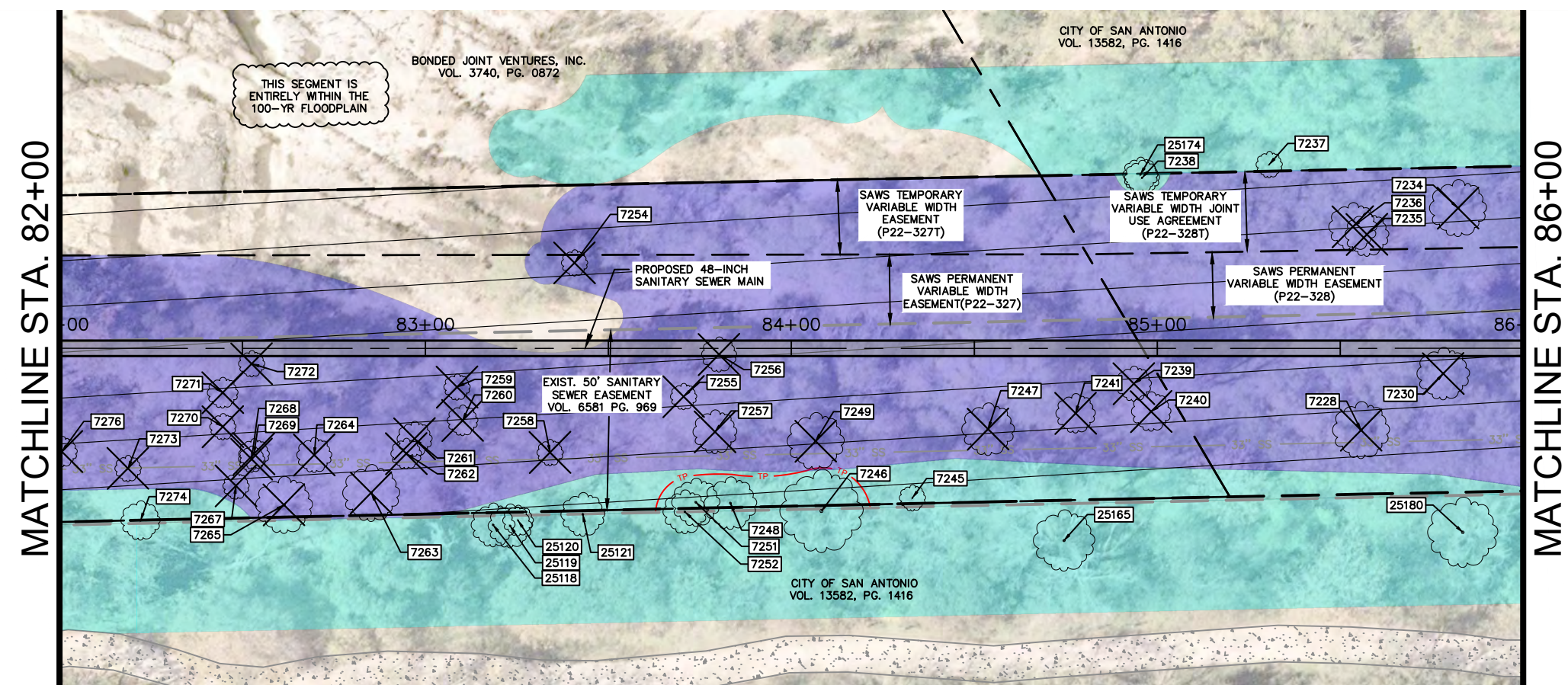


NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

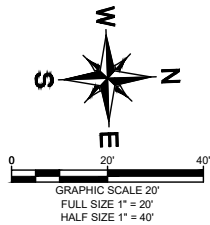
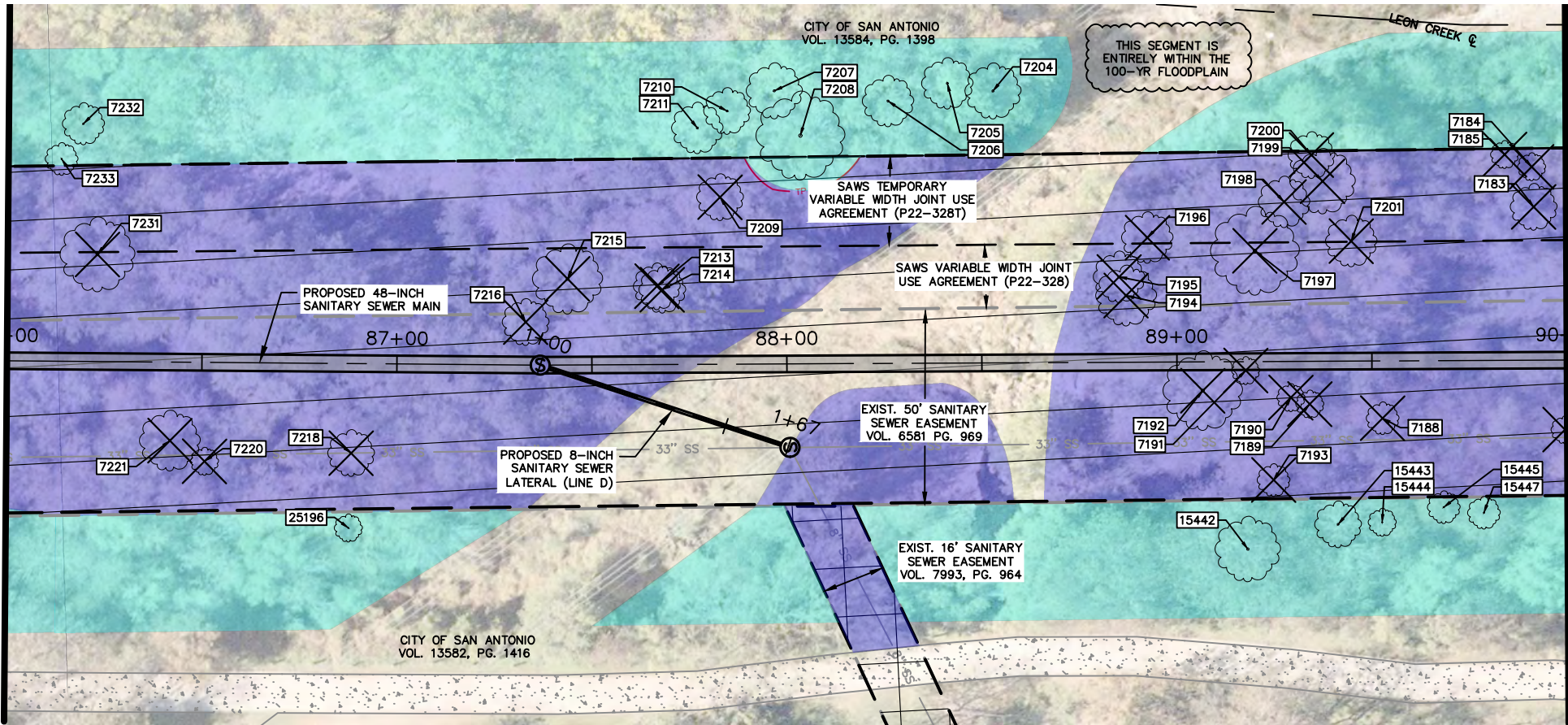
PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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		No.	Revision	By
		W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET		
		TREE PROTECTION (SHEET 11 OF 41)		
		DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP11
		DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA				
CHECKED: KHA				

WALTON, LINDSEY 12/20/23 9:50 AM
KSHA UTILITIES 06/06/2024 CAD PLAN SHEET 11 OF 41 DWG
12/20/23 9:50 AM
PLOTTED BY
DWG NAME
12/20/23 9:50 AM

MATCHLINE STA. 86+00



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



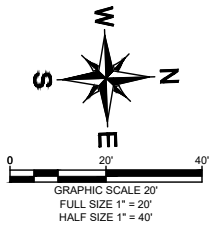
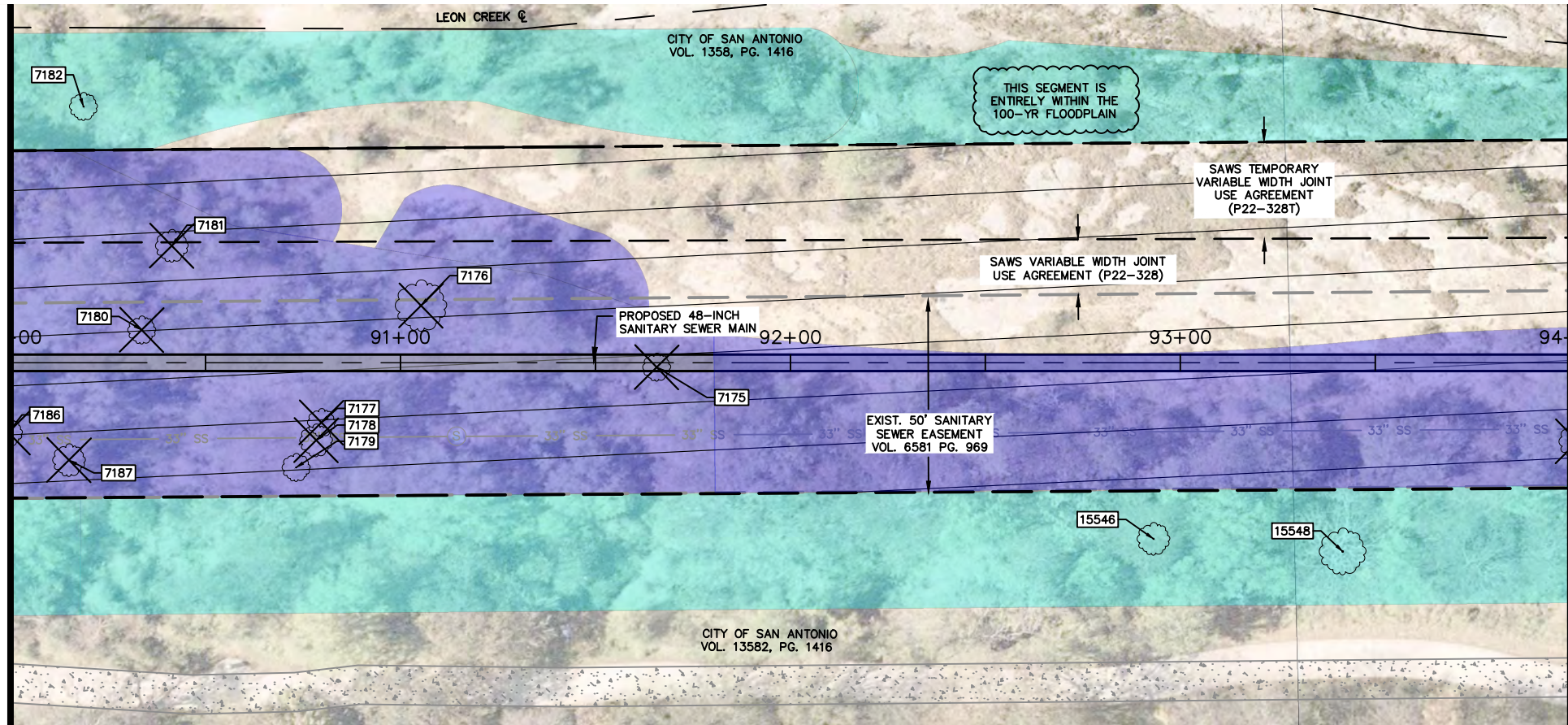
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 12 OF 41)

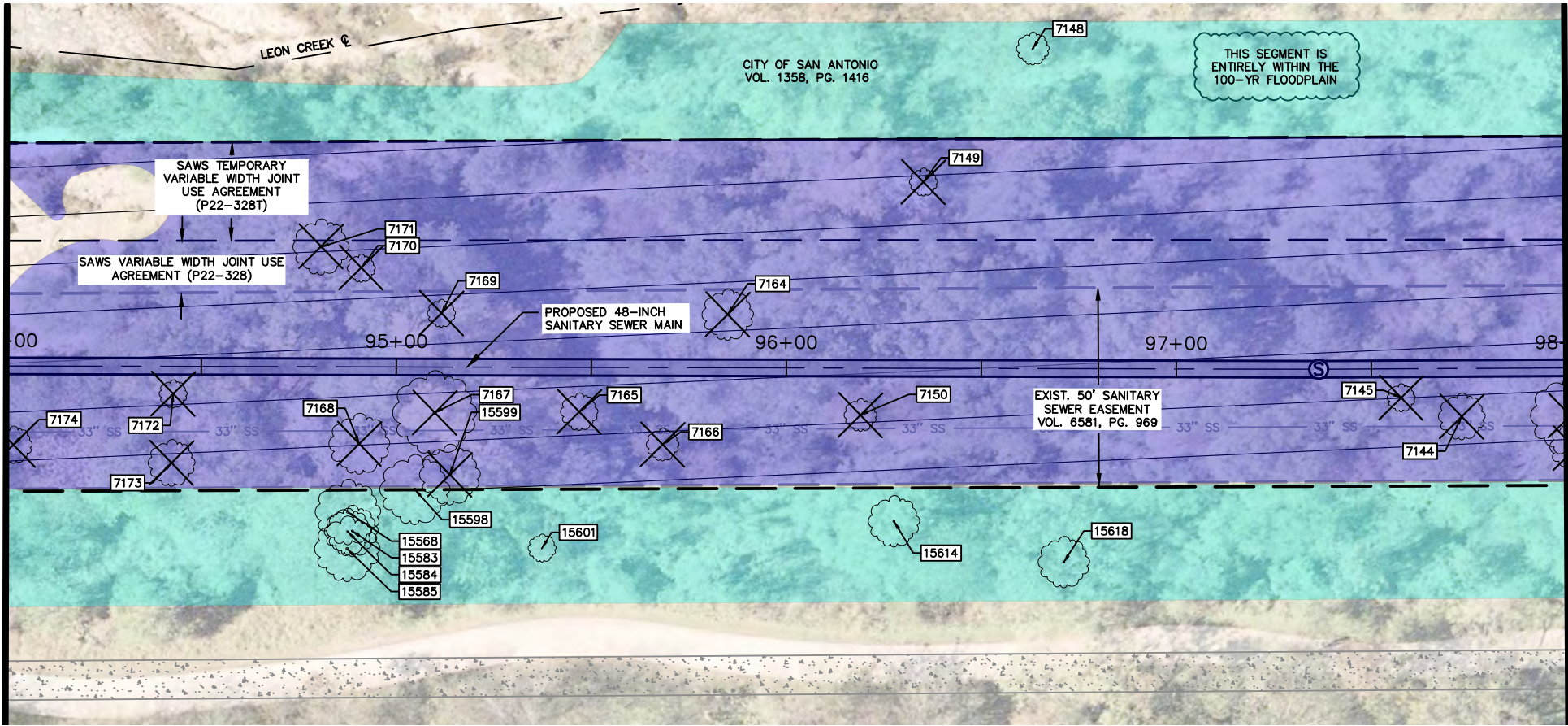
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DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		

MATCHLINE STA. 90+00

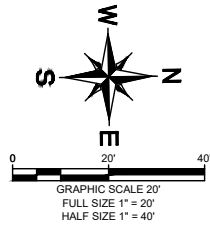
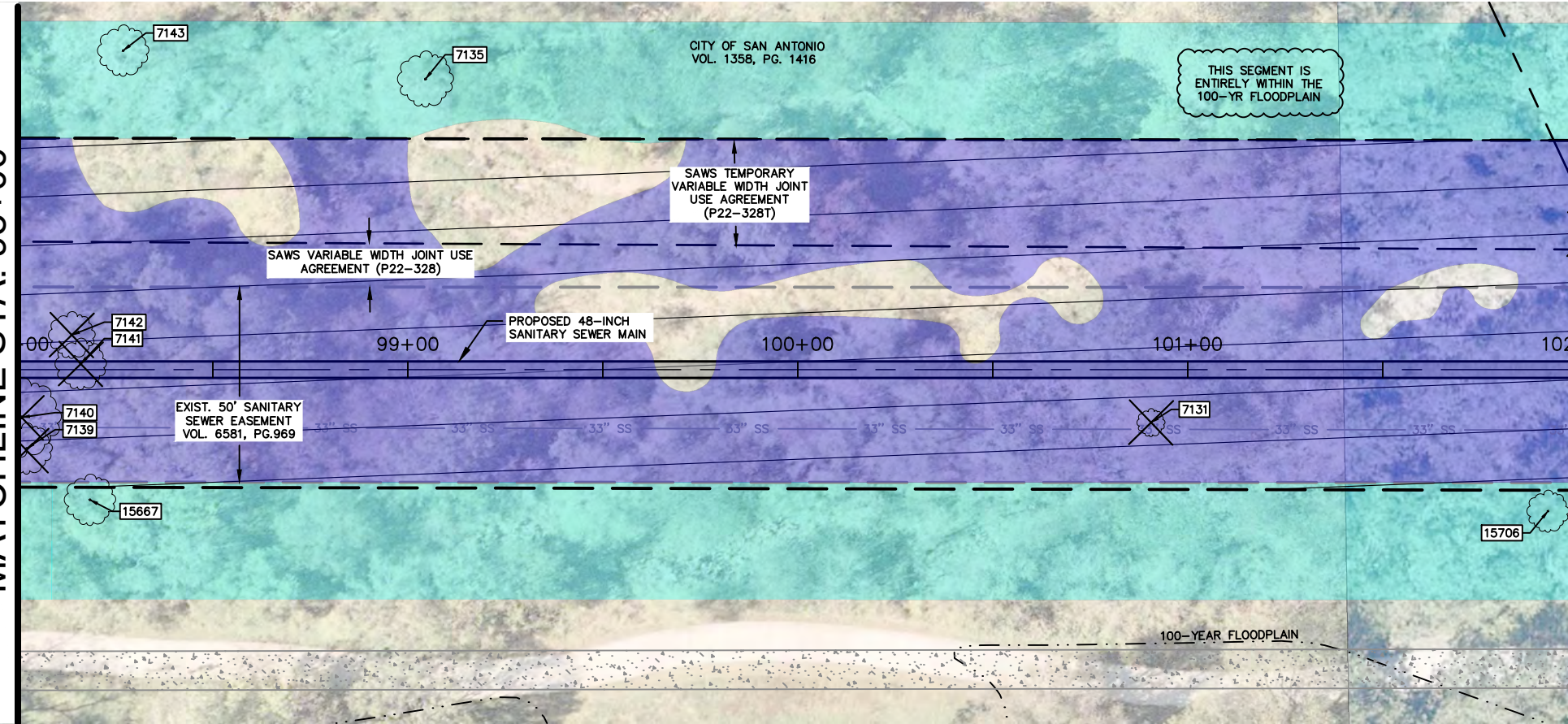


MATCHLINE STA. 94+00

MATCHLINE STA. 94+00



MATCHLINE STA. 98+00

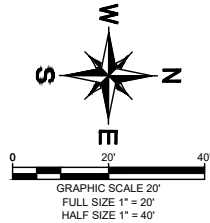


NOTES:

- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



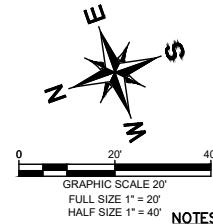
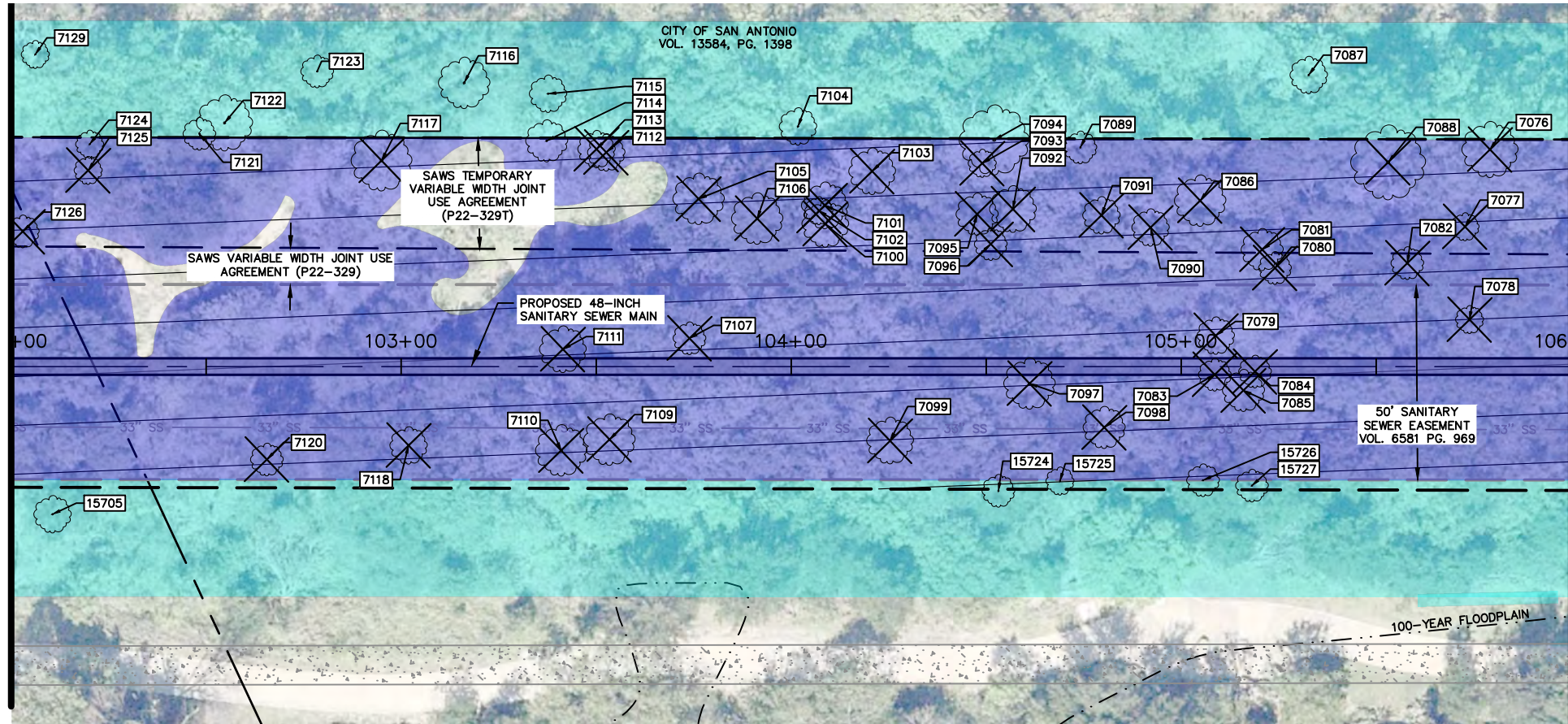
SAN ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 13 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP13
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		

MATCHLINE STA. 102+00



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH, P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

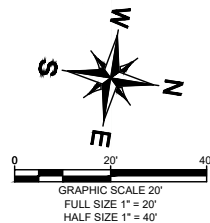


SAN ANTONIO
WATER
SYSTEM

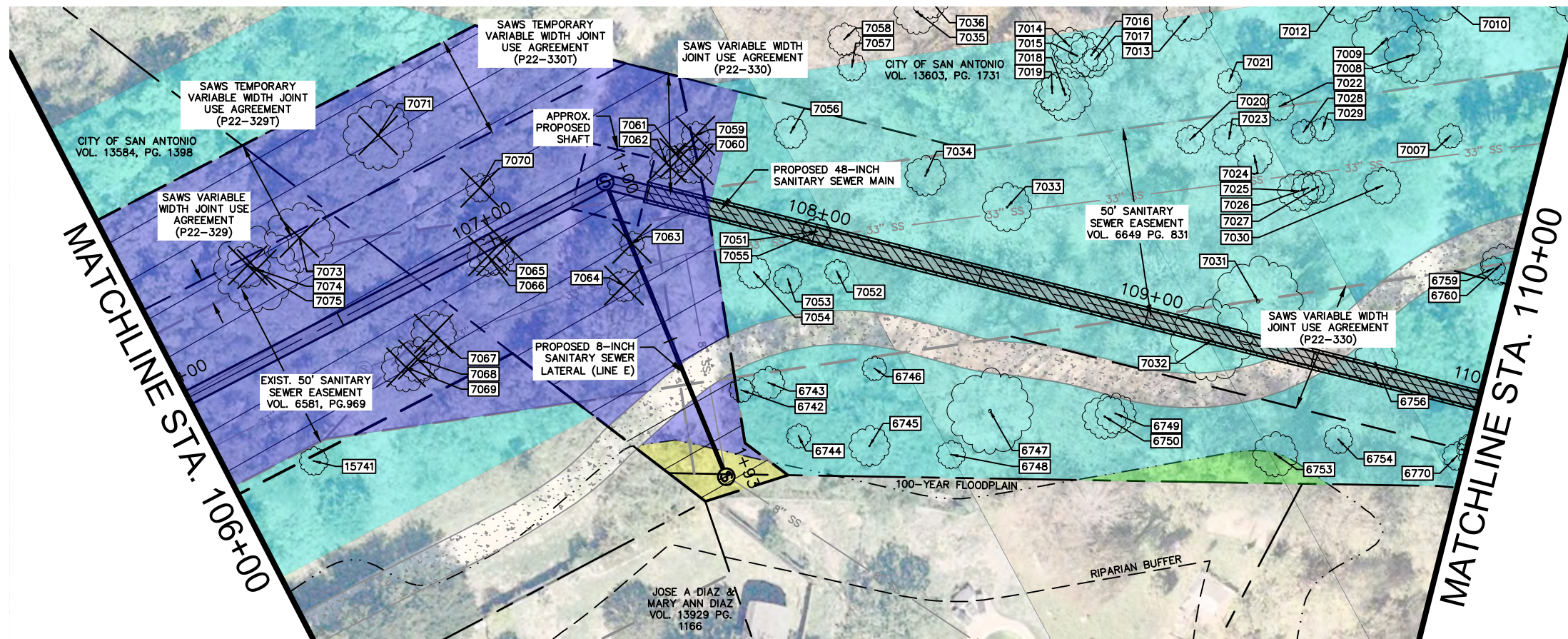
**W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET**

**TREE PROTECTION
(SHEET 14 OF 41)**

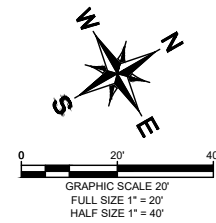
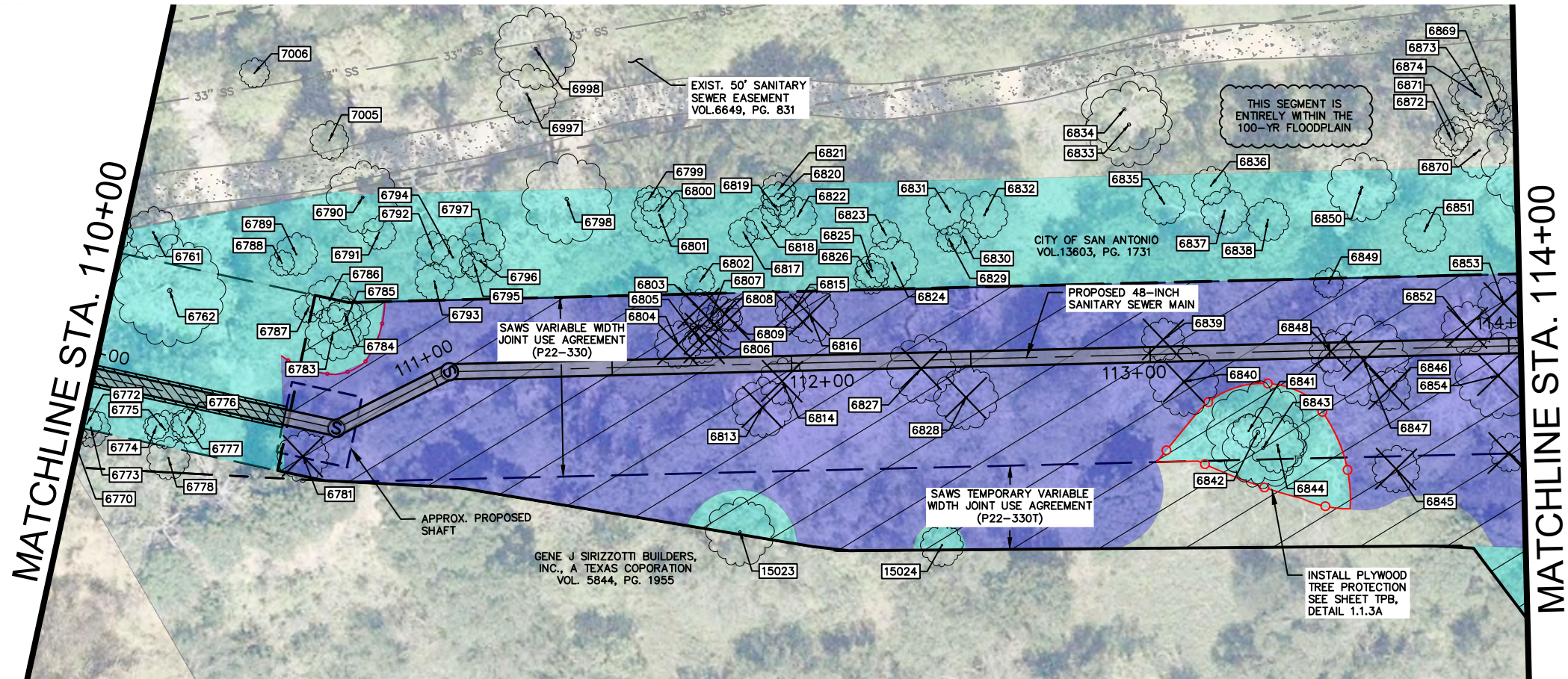
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	TP14
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



MATCHLINE STA. 106+00



MATCHLINE STA. 110+00



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

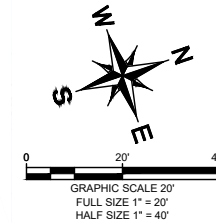
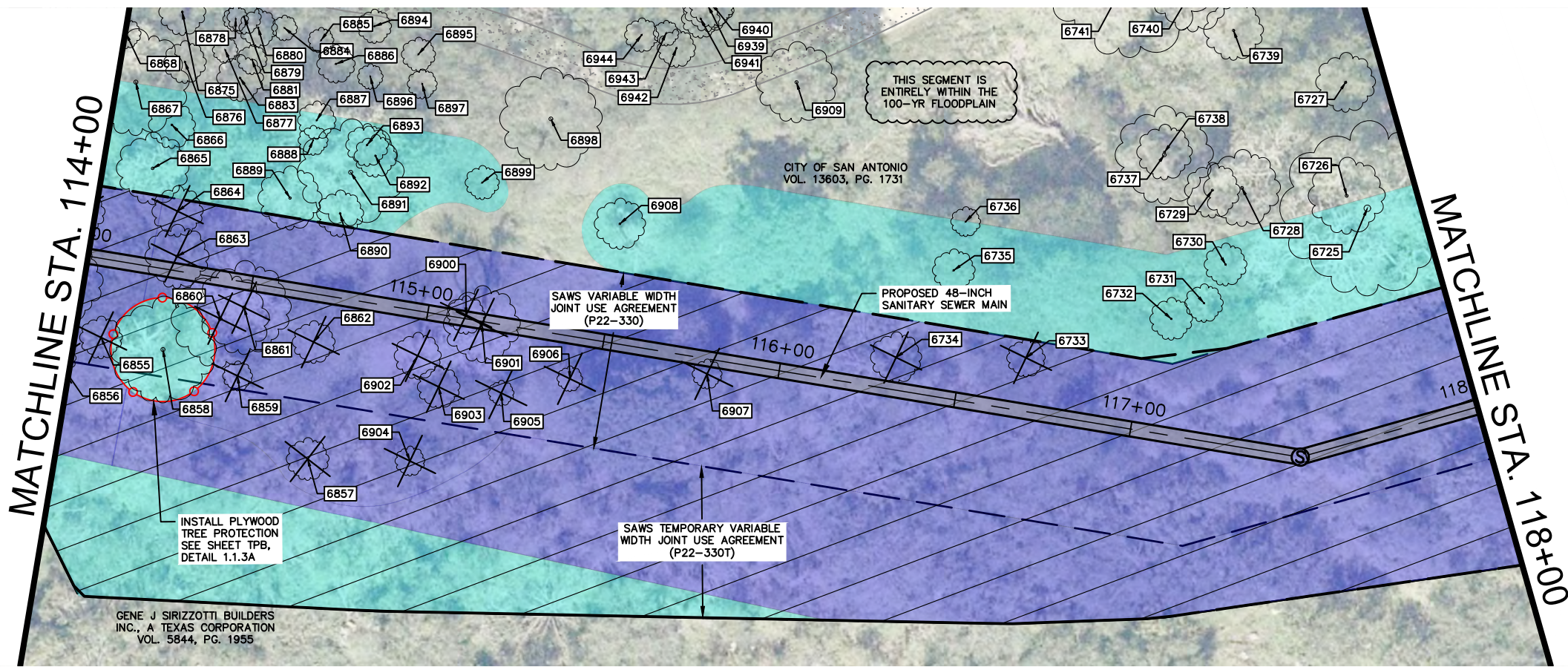
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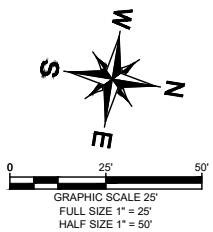
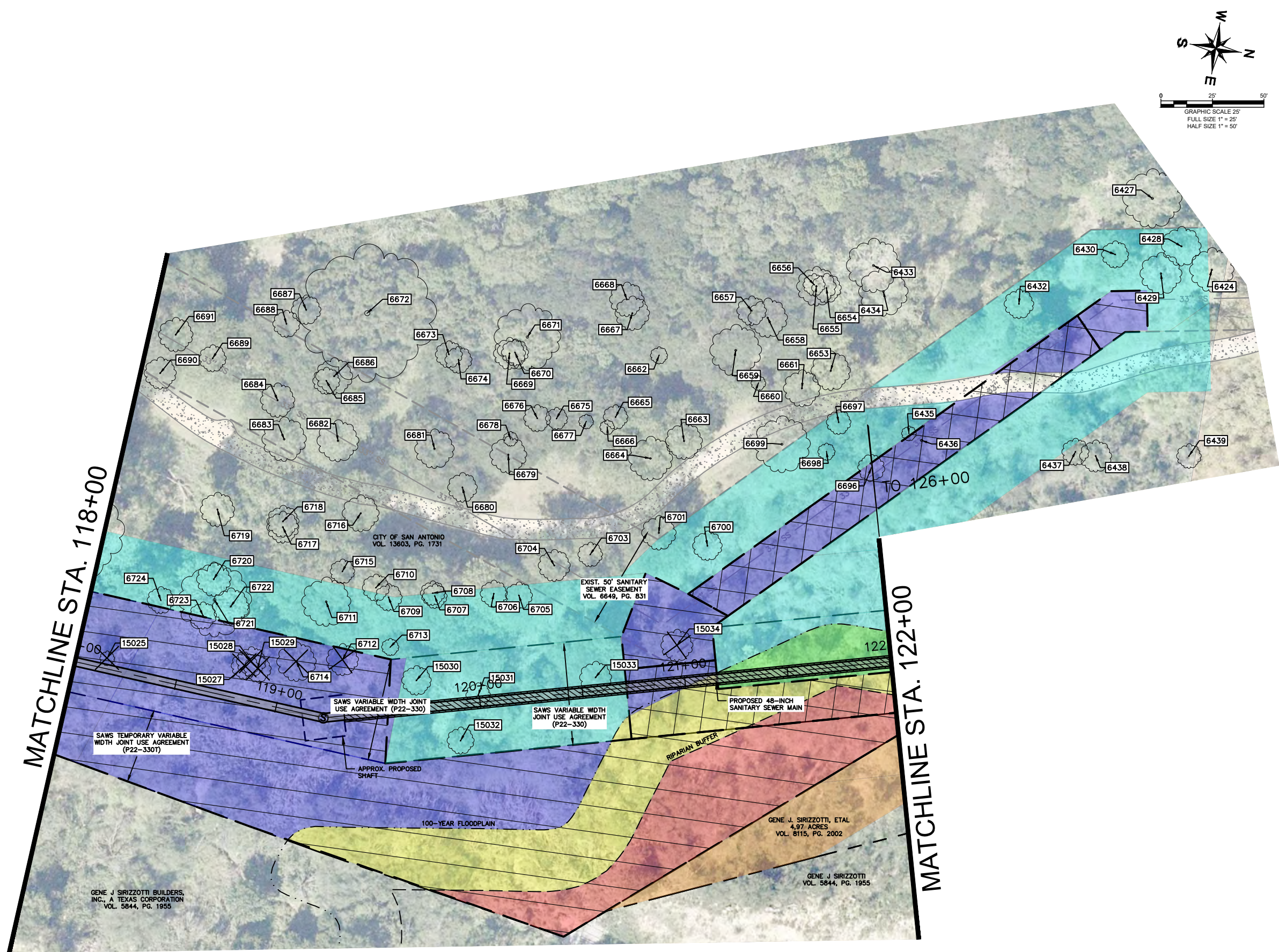
No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 15 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP15
CHECKED: KHA		



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12/28/23 7:01 AM
PLOTTED BY: KHA
DWG NAME: 068665068
LAST SAVED:

WALTON, LINDSEY 1/25/2023 10:18 AM
K:\SNA UTILITIES\06665068\06665068\CAD\PLAN\SH3.TREE\TP16.DWG
1/25/2023 2:01 AM
PLOTTED BY
DWG NAME
LAST SAVED



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL II A)	
TREE PROTECTION (LEVEL II B)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH, P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

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San Antonio, TX 78216

No.	Revision	By	Date

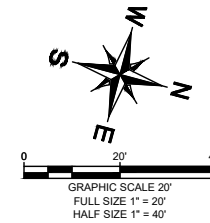
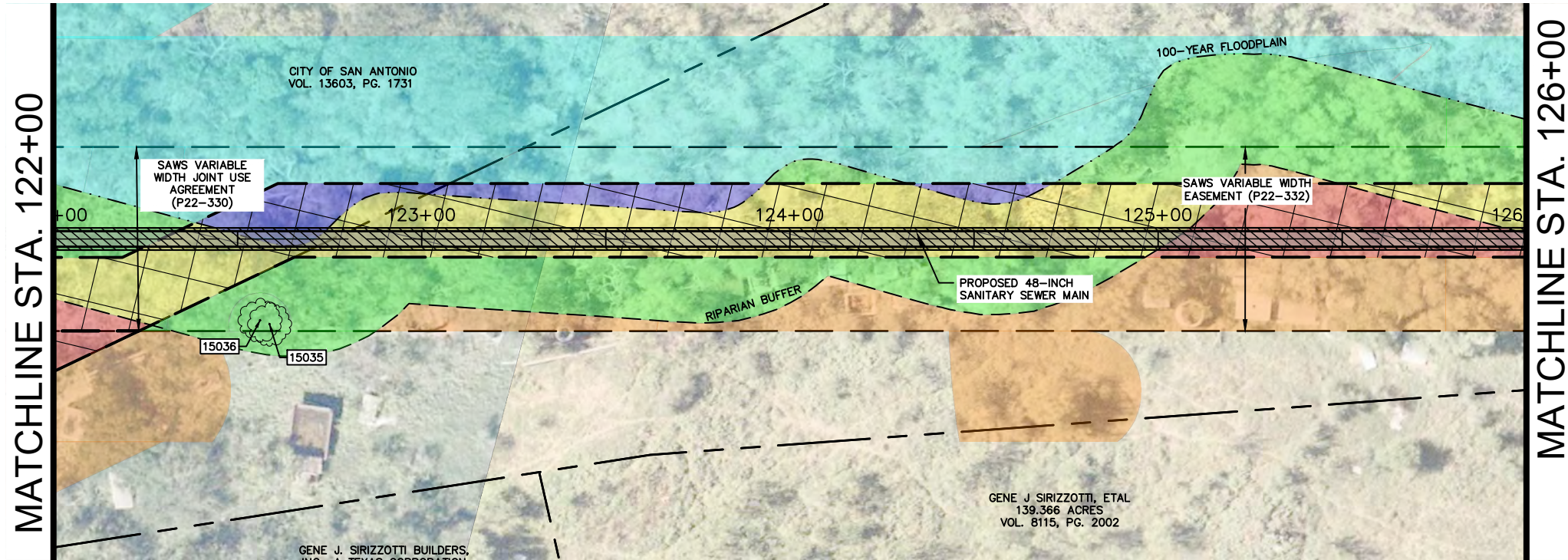
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 16 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP16
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		

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PLOTTED BY
DWG NAME
LAST SAVED

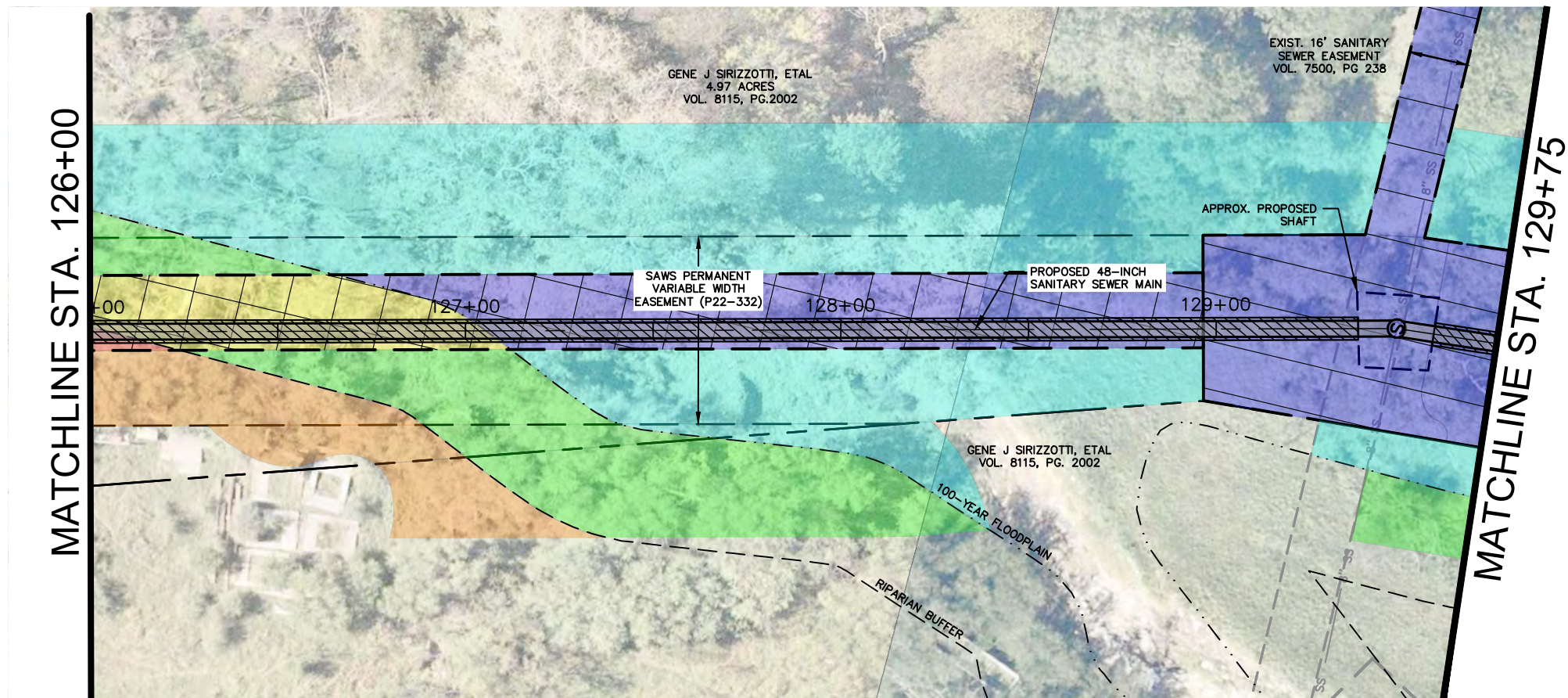
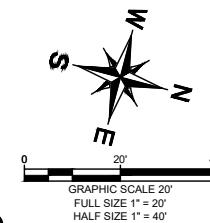


NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



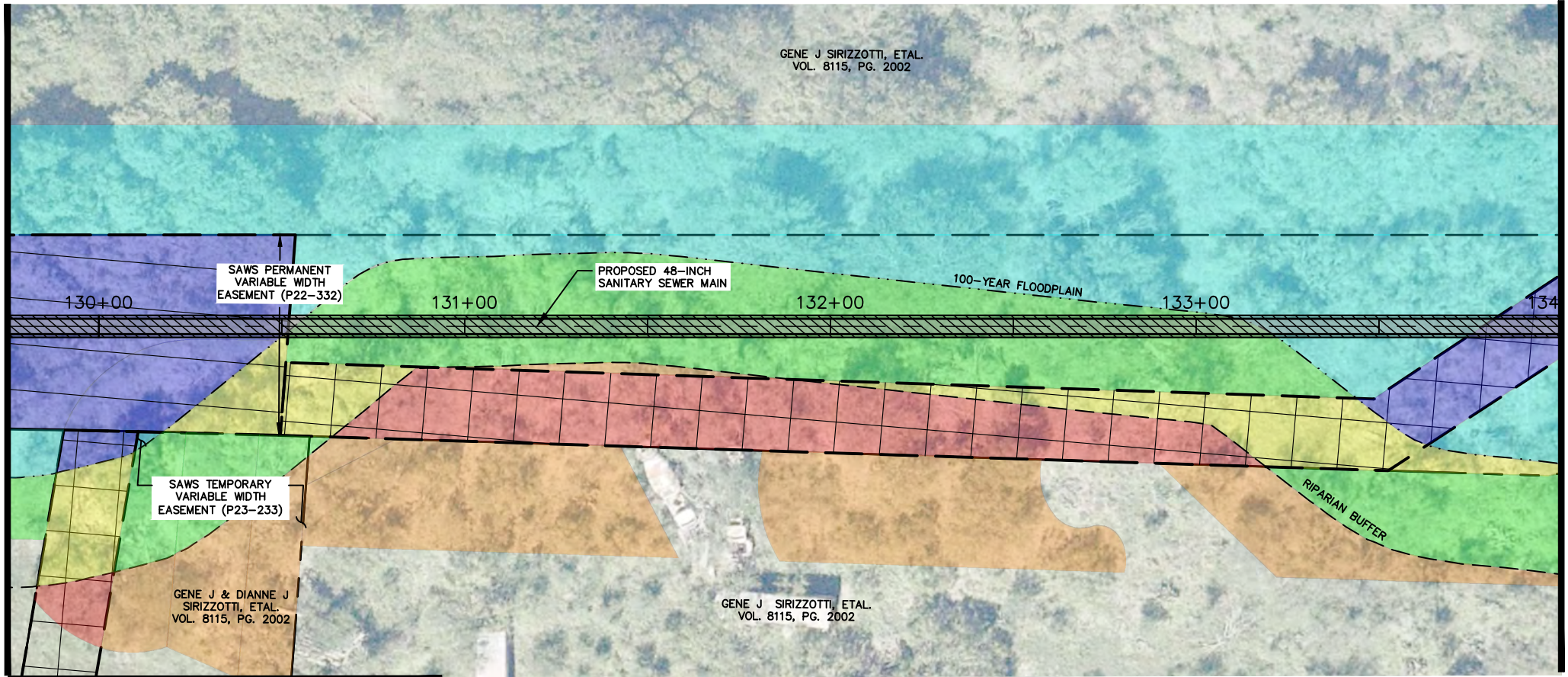
**W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET**

**TREE PROTECTION
(SHEET 16A OF 41)**

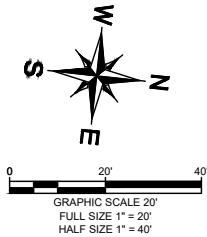
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CHECKED: KHA	068665068	

MATCHLINE STA. 129+75

MATCHLINE STA. 134+00



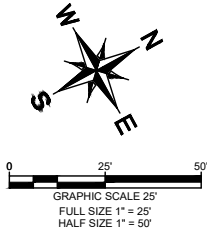
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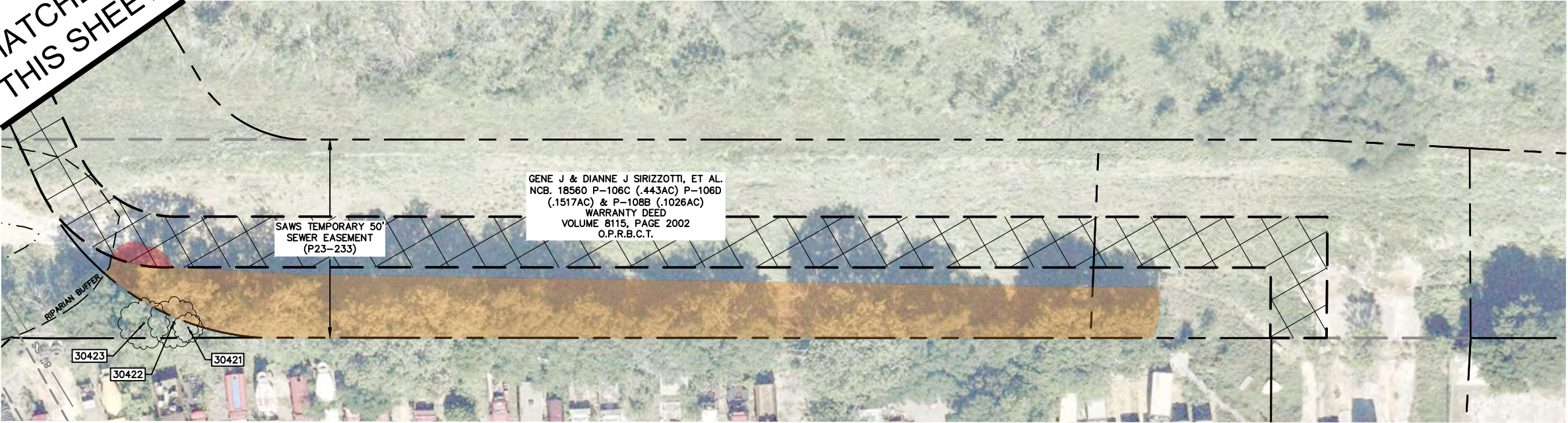
- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26–G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE THIS SHEET



GENE J & DIANNE J SIRIZZOTTI, ET AL.
NCB, 18560 P-106C (.443AC) P-106D
(.1517AC) & P-108B (.1026AC)
WARRANTY DEED
VOLUME 8115, PAGE 2002
O.P.R.B.C.T.

SAWS TEMPORARY 50'
SEWER EASEMENT
(P23-233)

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



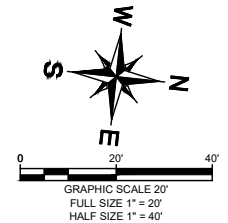
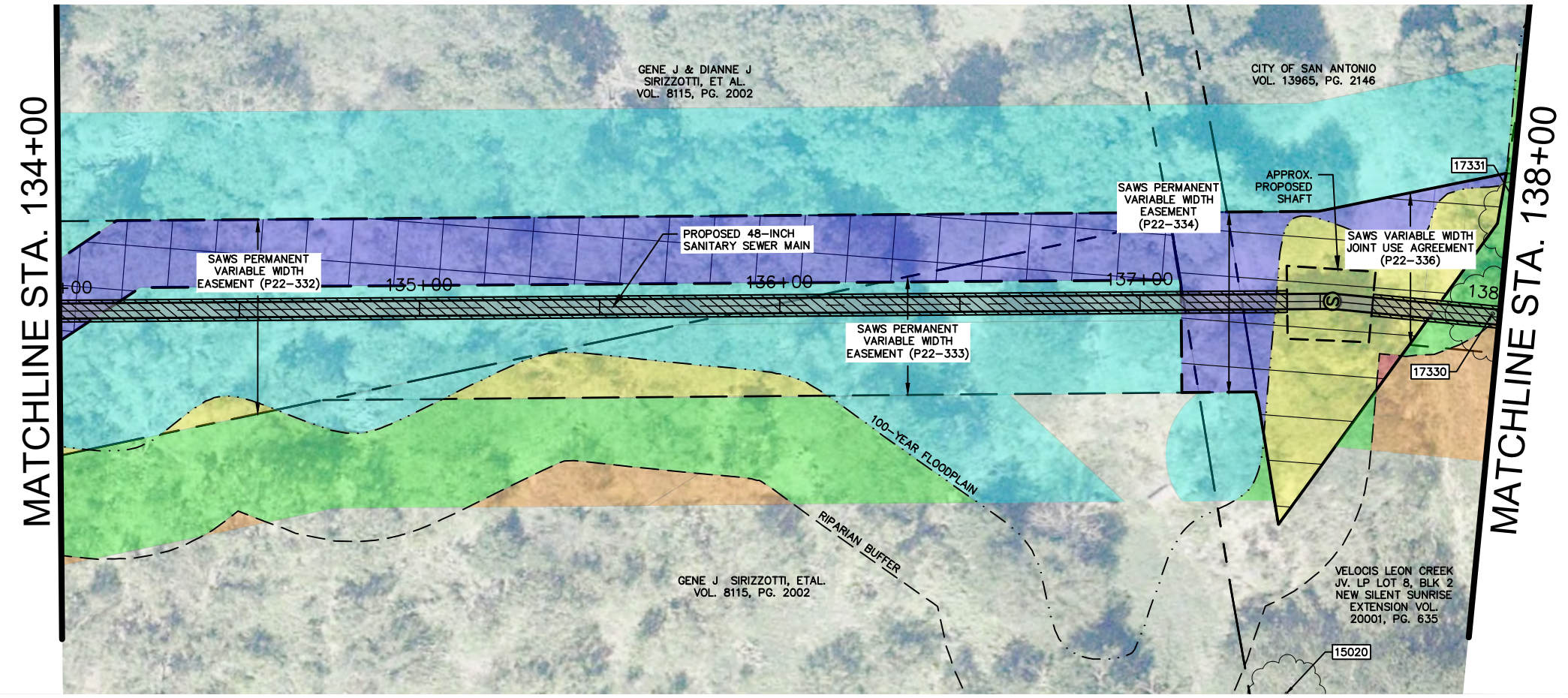
SAN
ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 17 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	TP17
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

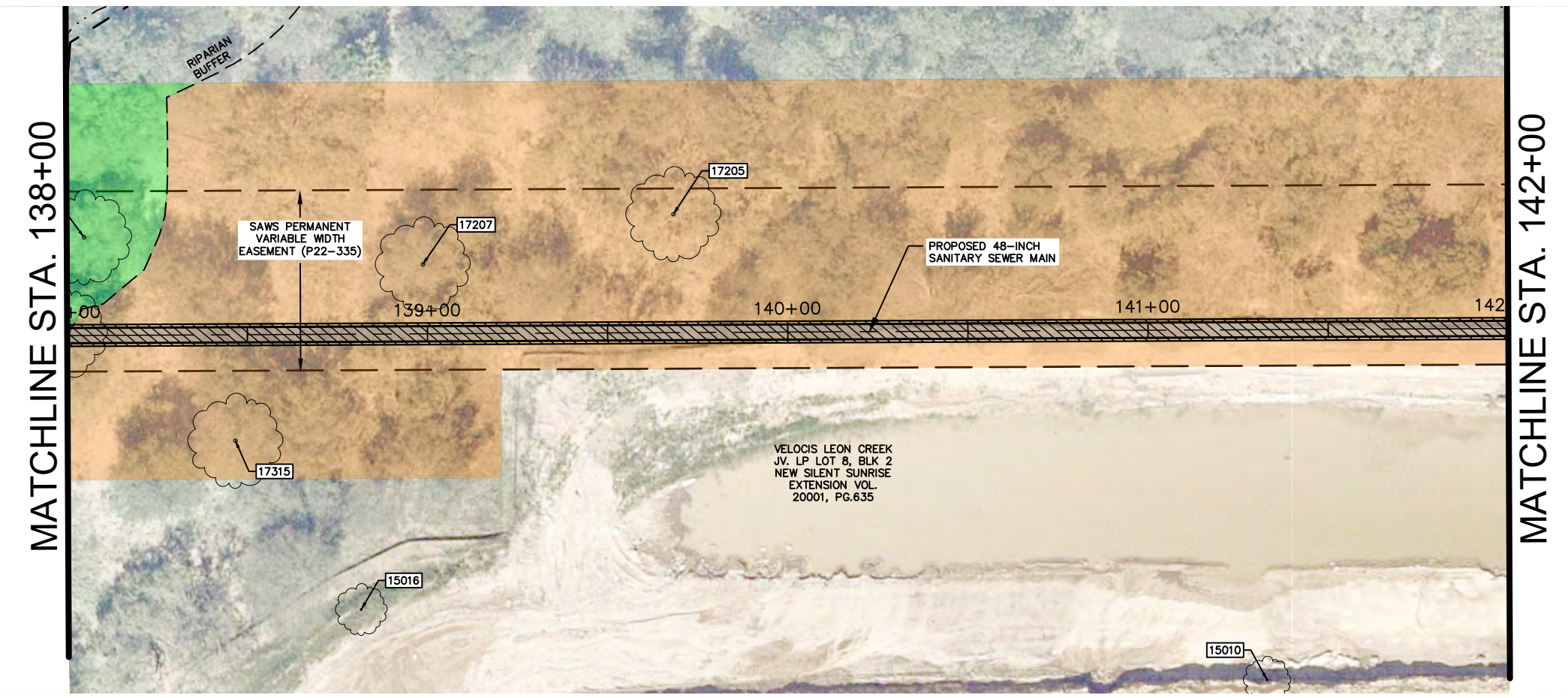
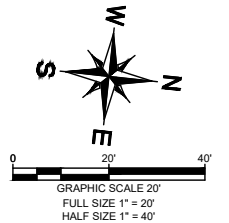
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 DATE: 1/25/2024 10:19 AM



- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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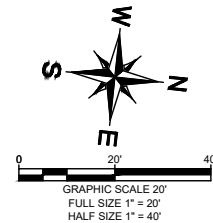
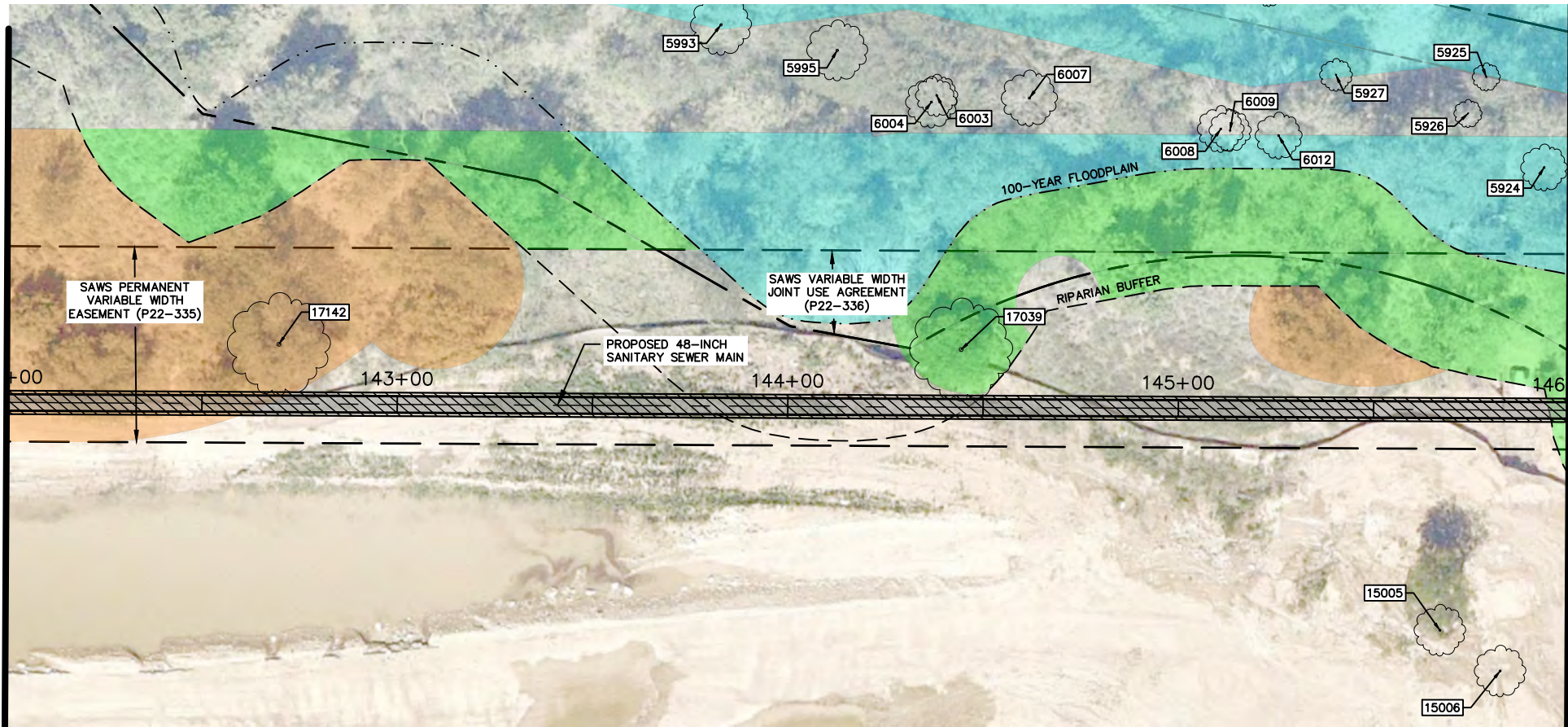
JEFFREY A. FARNSWORTH P.E.
 SERIAL NO. 80190
 DATE: JANUARY 2024

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 Texas Registered Firm, No. F-928
 10101 Reunion Place Suite 400 Tel No. 210-541-9166
 San Antonio, TX 78216

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 18 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	TP18
CHECKED: KHA	068665068	

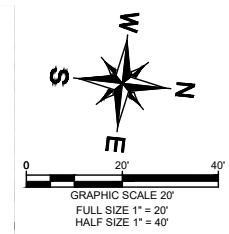
MATCHLINE STA. 142+00



- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

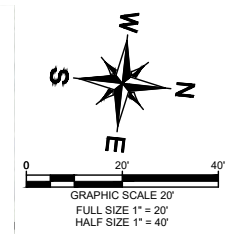
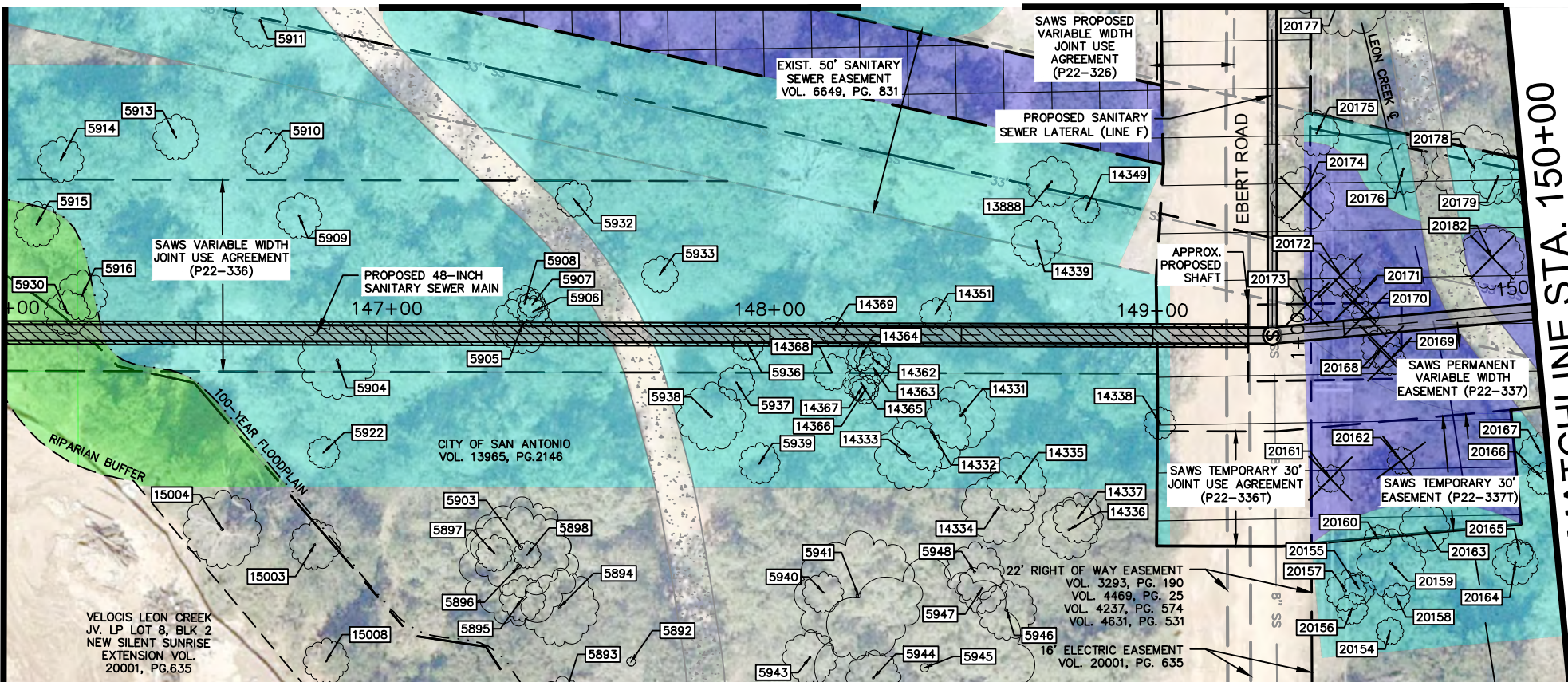
LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE SEE SHEET TP19A
MATCHLINE SEE SHEET TP30
LATERAL F STA. 1+86

MATCHLINE STA. 146+00



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

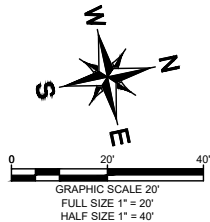
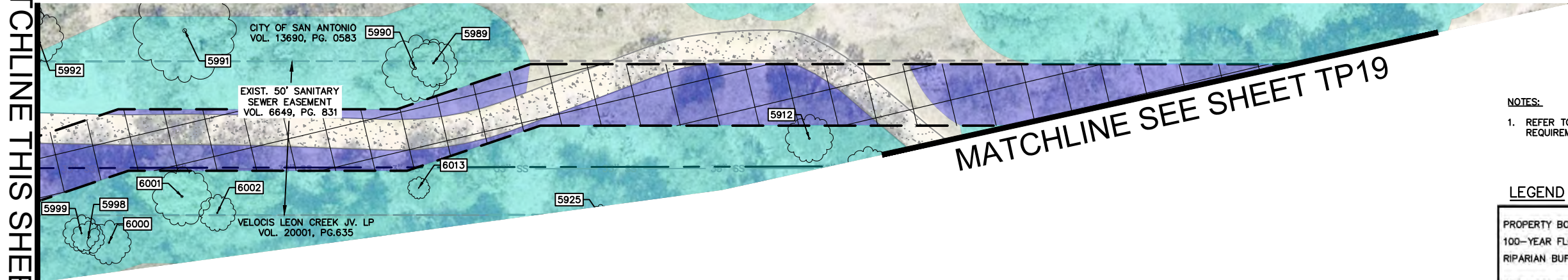
Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 19 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP19
CHECKED: KHA		

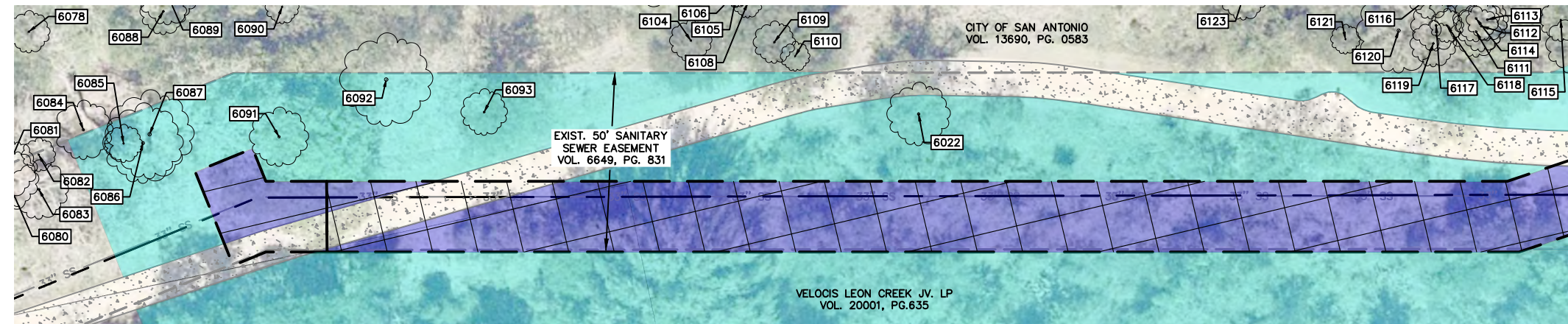
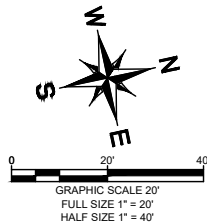
MATCHLINE THIS SHEET



- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26–G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE THIS SHEET

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

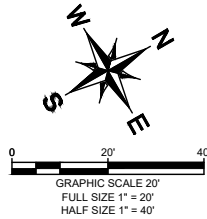
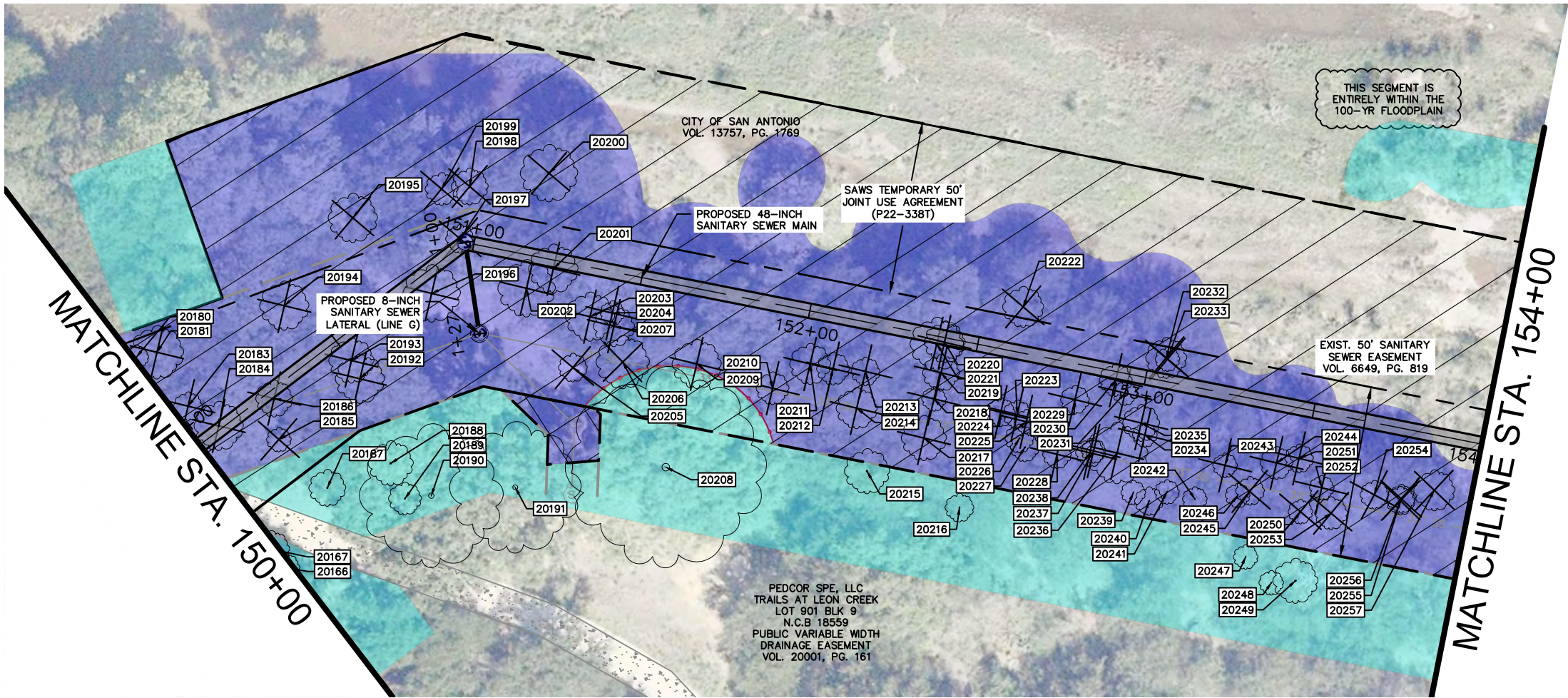
Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

	SHEET	
	TREE PROTECTION (SHEET 19A OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	SHEET NO. TP19A
CHECKED: KHA	068665068	



- NOTES:
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

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San Antonio, TX 78216

No.	Revision	By	Date



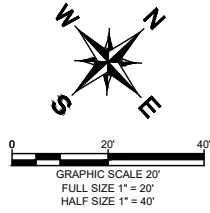
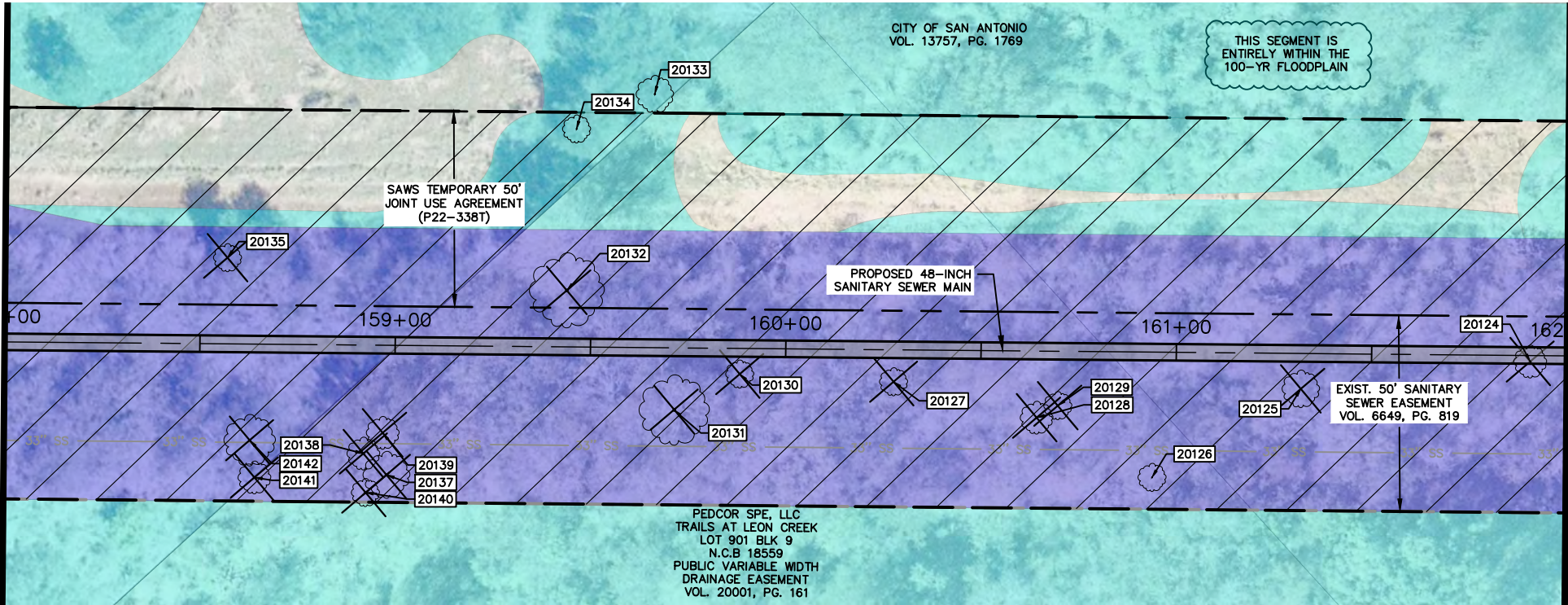
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 20 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	TP20
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

MATCHLINE STA. 158+00



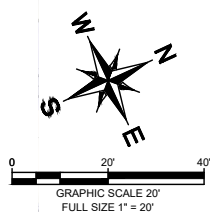
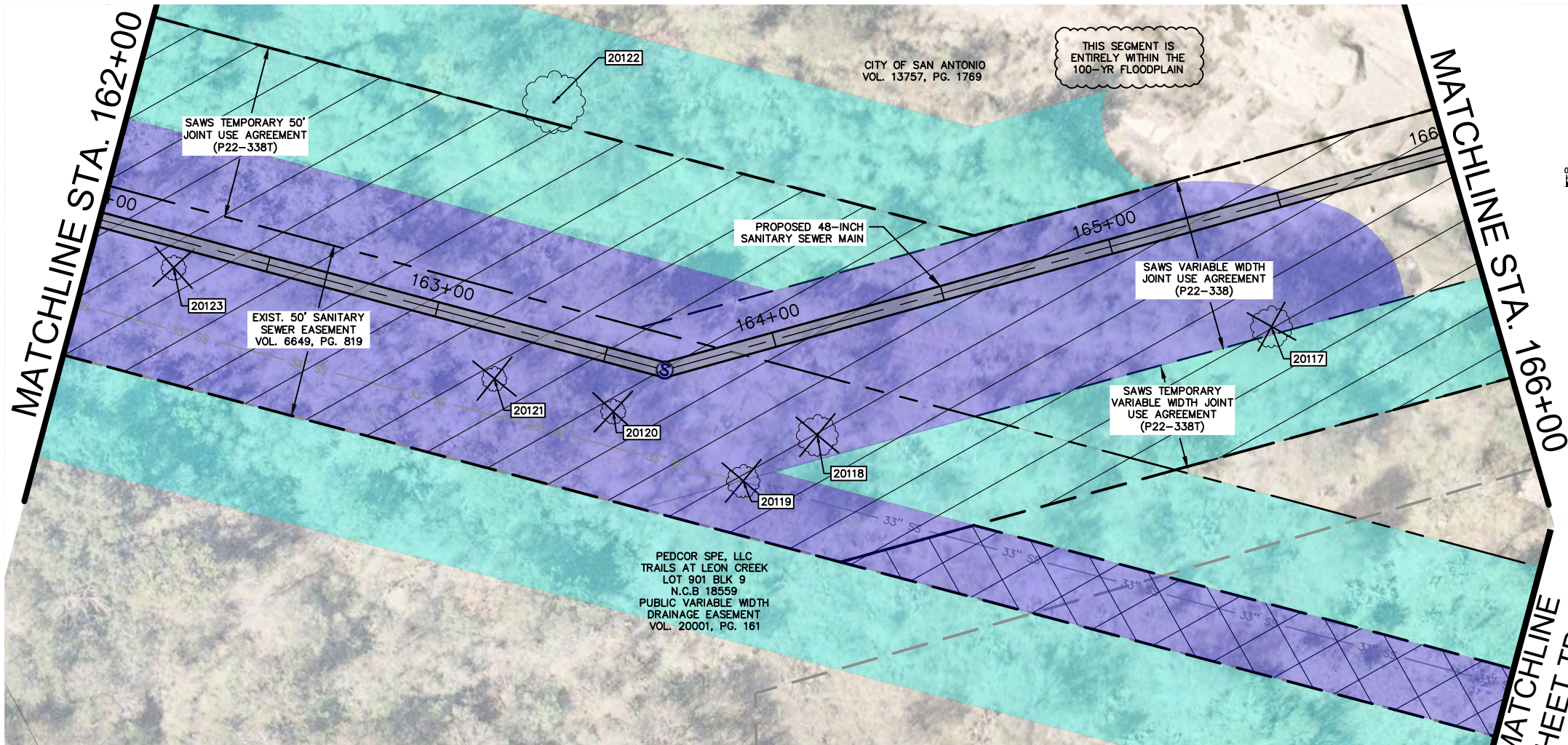
MATCHLINE STA. 162+00

- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

MATCHLINE STA. 162+00



MATCHLINE STA. 166+00
SHEET TP22

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

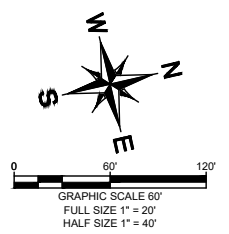
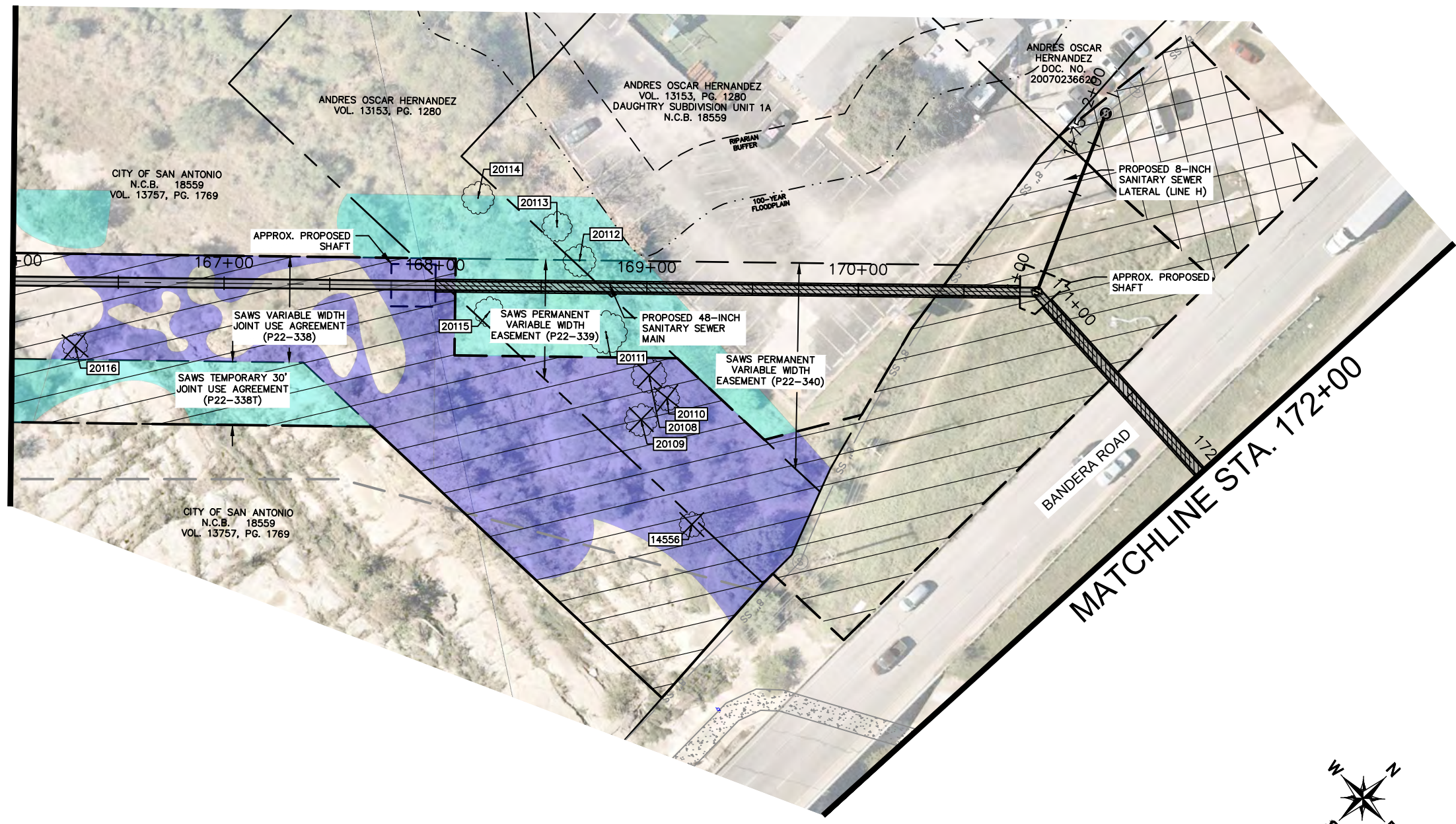
Kimley»Horn
Texas Registered Firm, No. F-928
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 21 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP21
CHECKED: KHA		

PLOTTED BY: WALTON, LINDSEY 1/25/2024 10:23 AM
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 1/25/2024 10:23 AM
 DWG NAME: 068665068
 JOB: 22-4501

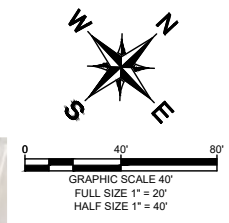
MATCHLINE STA. 166+00



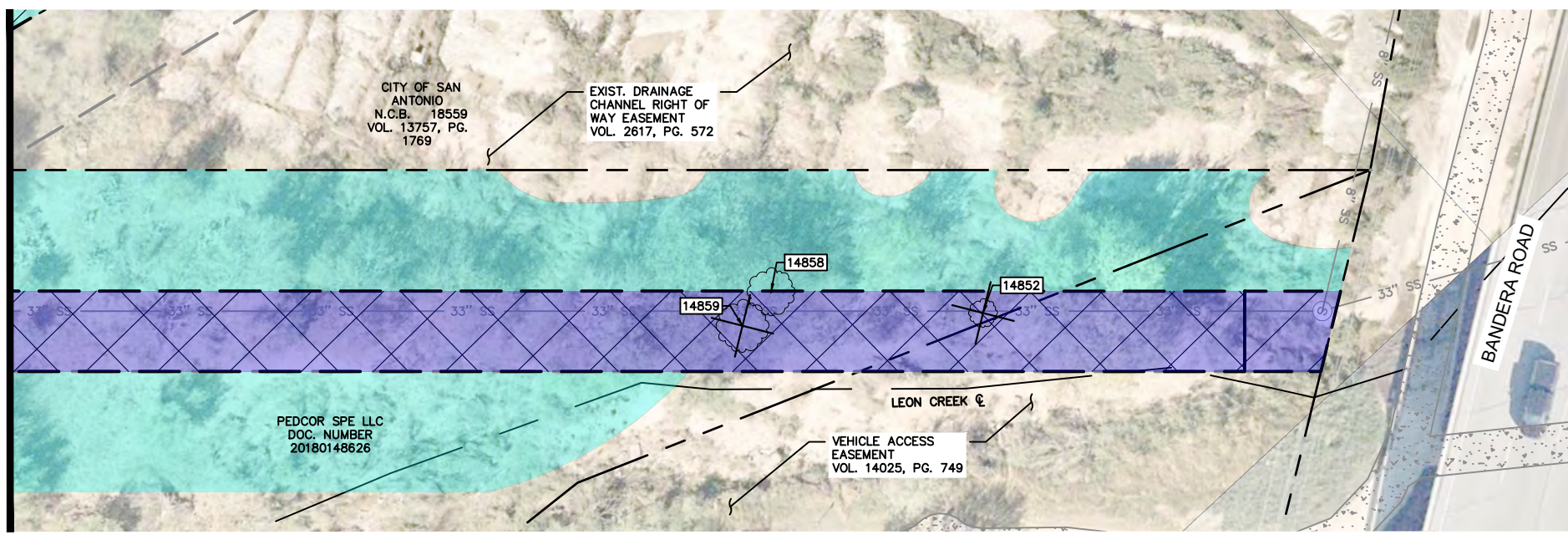
- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE SHEET TP21



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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San Antonio, TX 78216

No.	Revision	By	Date

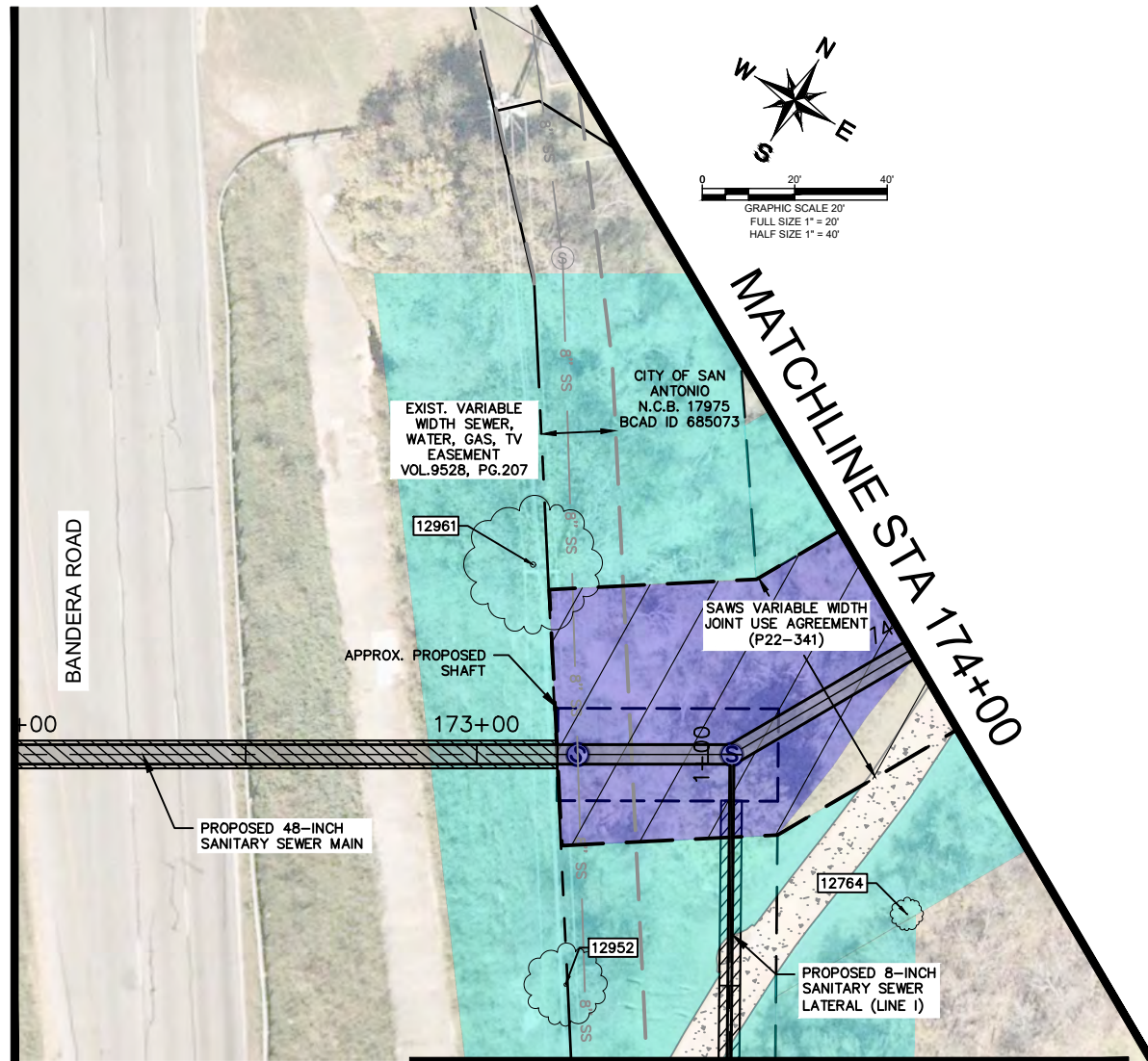
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 22 OF 41)

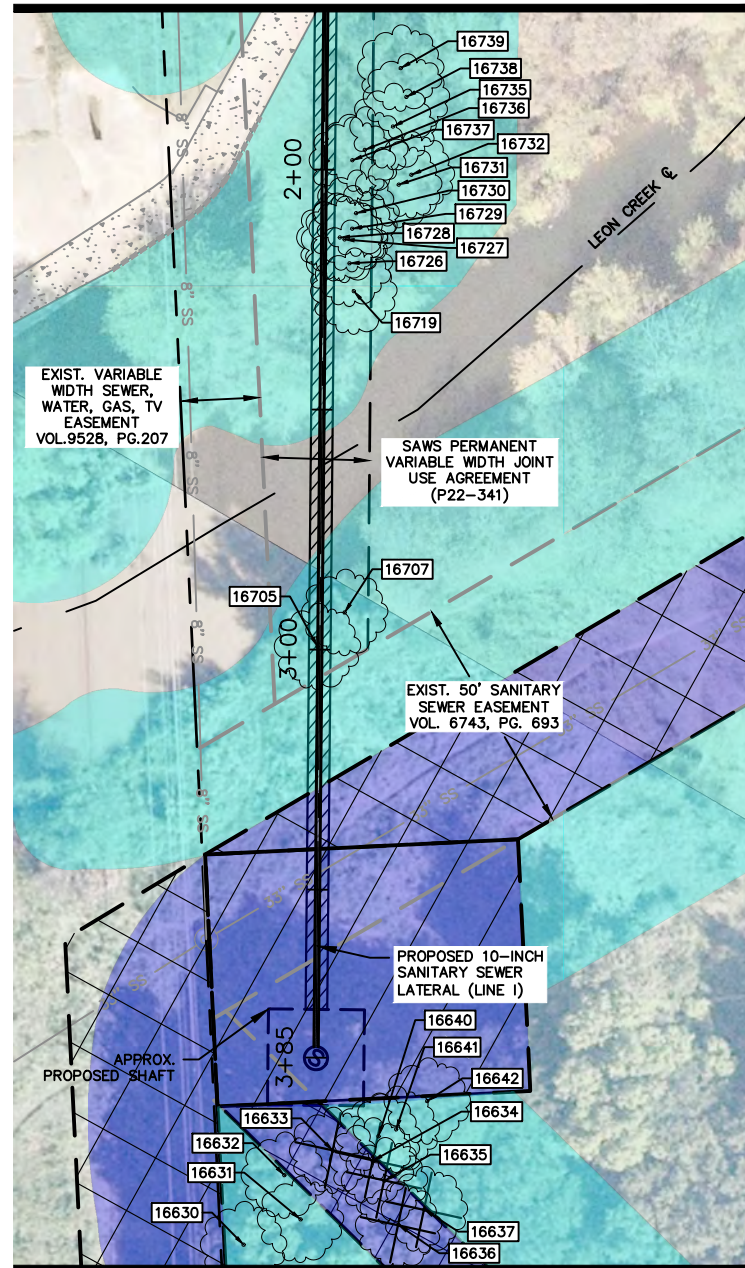
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	TP22
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

MATCHLINE STA 172+00



MATCHLINE THIS SHEET
LATERAL I STA. 2+24

MATCHLINE THIS SHEET
LATERAL I STA. 2+24



MATCHLINE SHEET TP22B

MATCHLINE SHEET TP23

NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

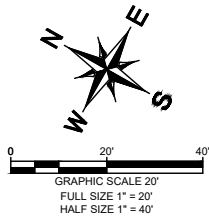
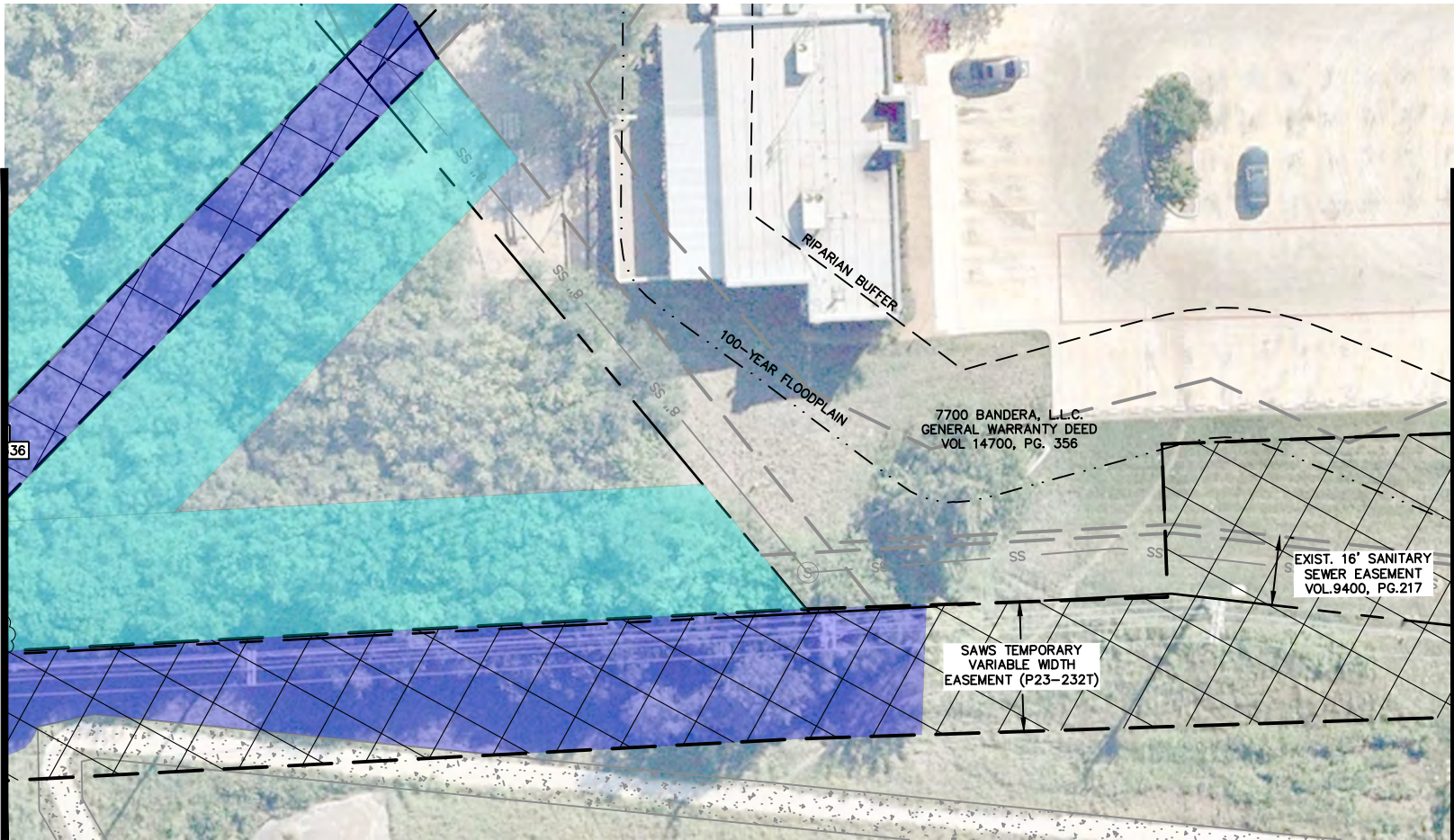
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 22A OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
		SHEET NO. TP22A

PLOTTED BY: WALTON, LINDSEY 1/25/2023 10:24 AM
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 DATE: 1/25/2023 10:24 AM

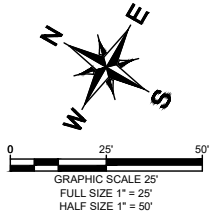
MATCHLINE SHEET TP22A



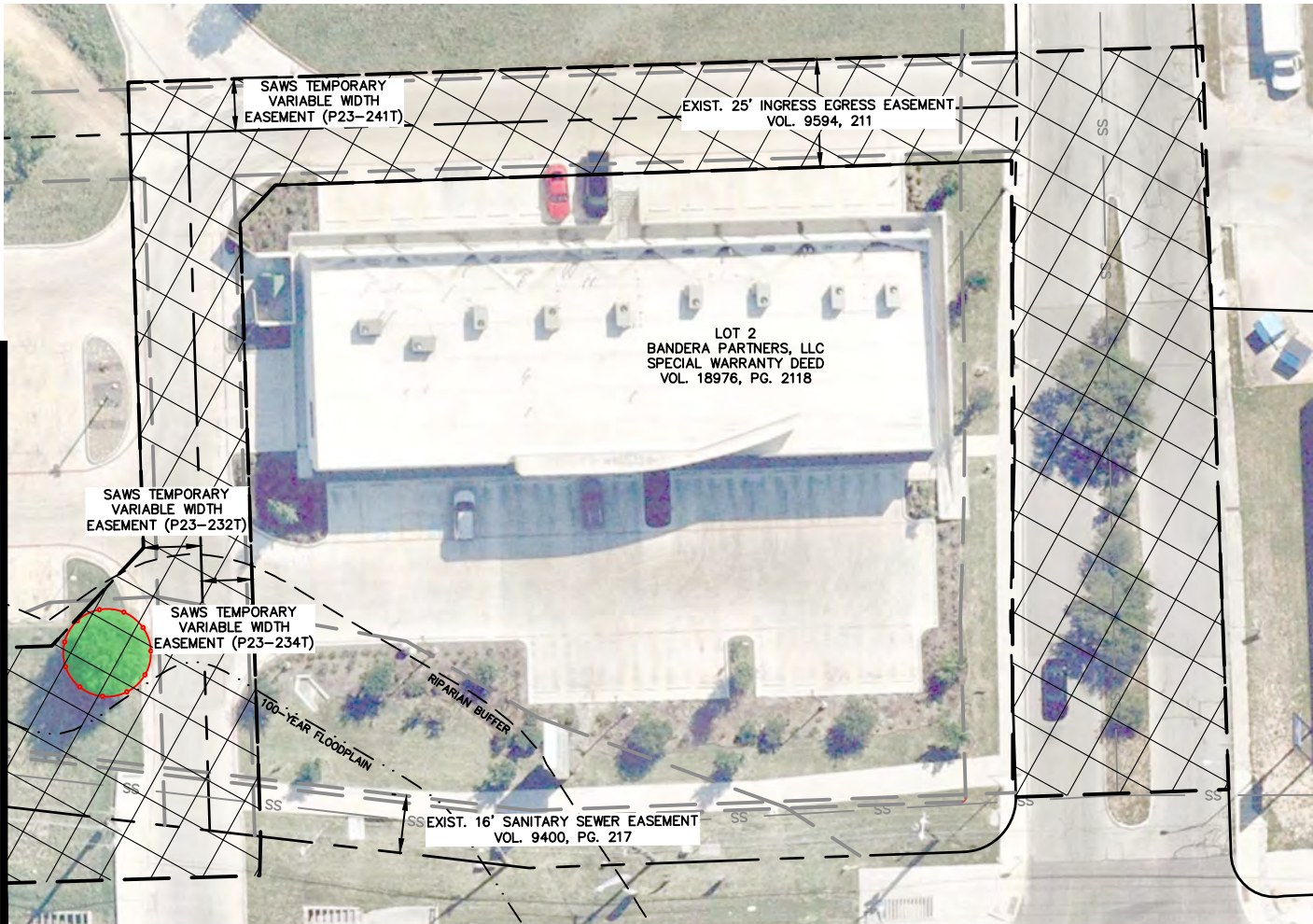
- NOTES:
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



MATCHLINE THIS SHEET



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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

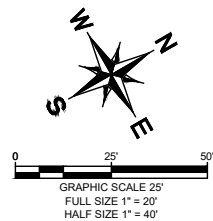
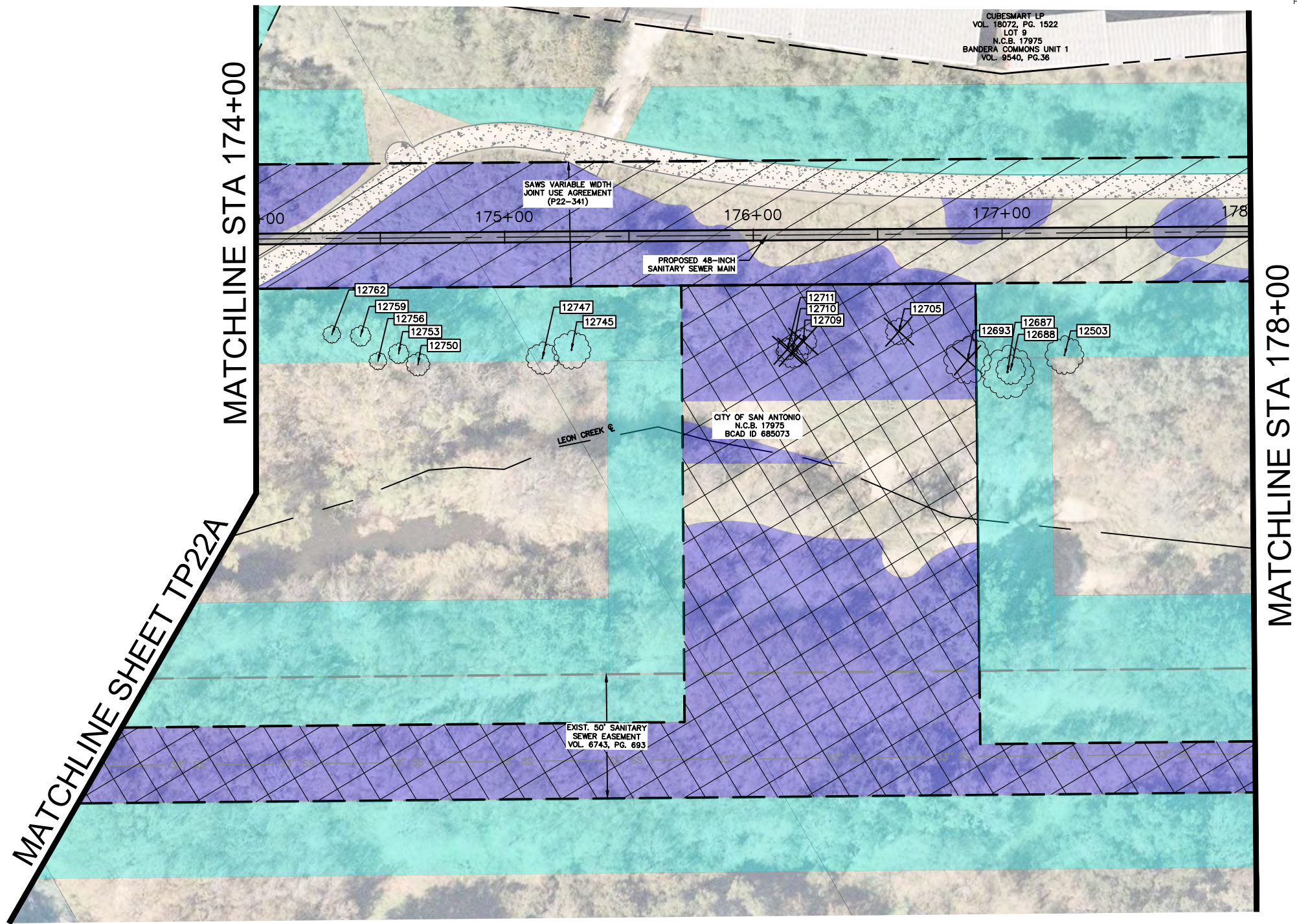


SAN ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 22B OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22-4501	TP22B
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL II A)	
TREE PROTECTION (LEVEL II B)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

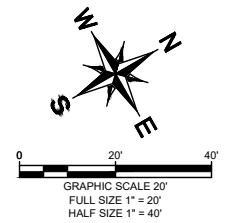


SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 23 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. TP23
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

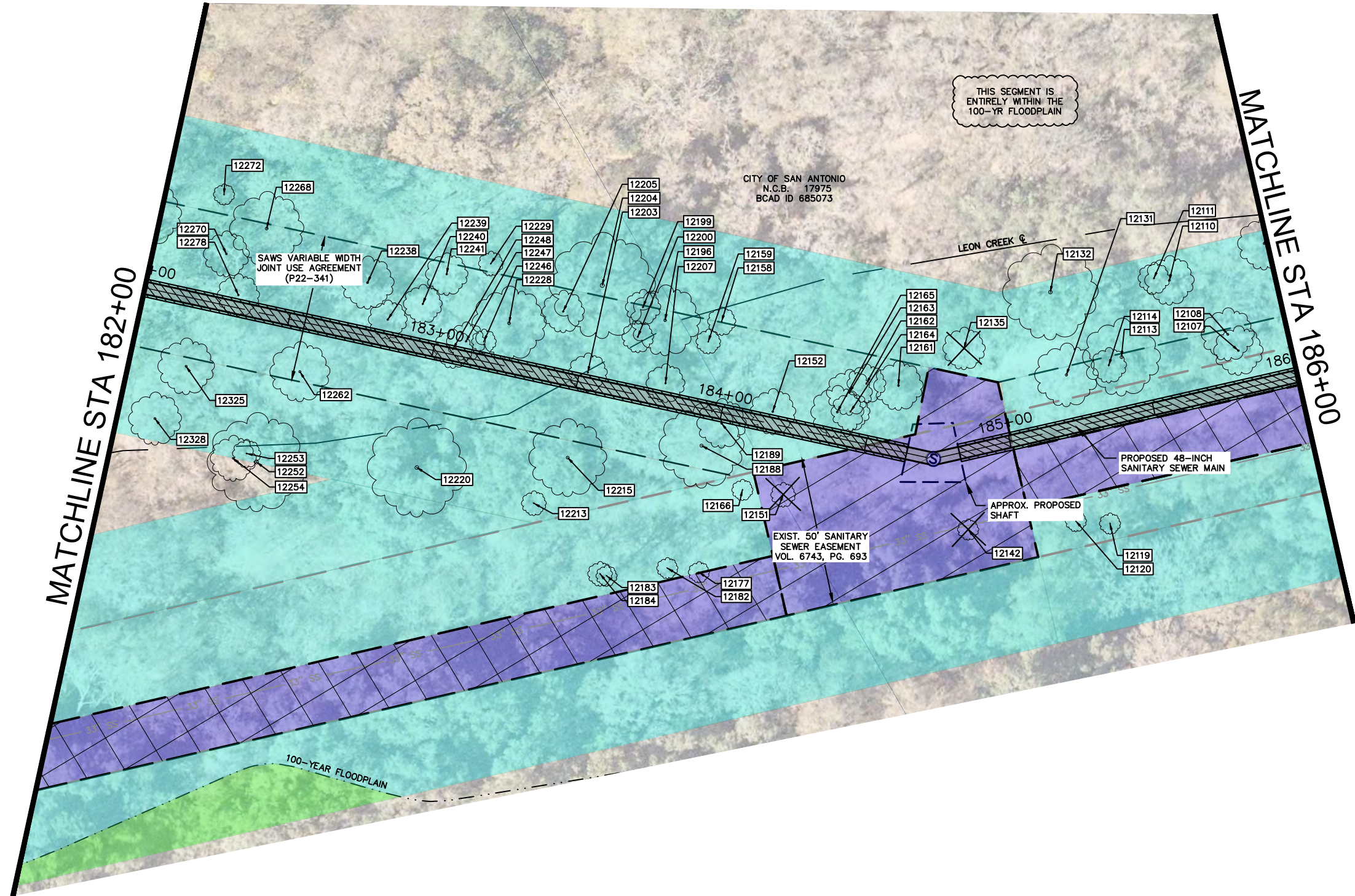
No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

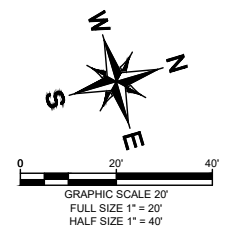
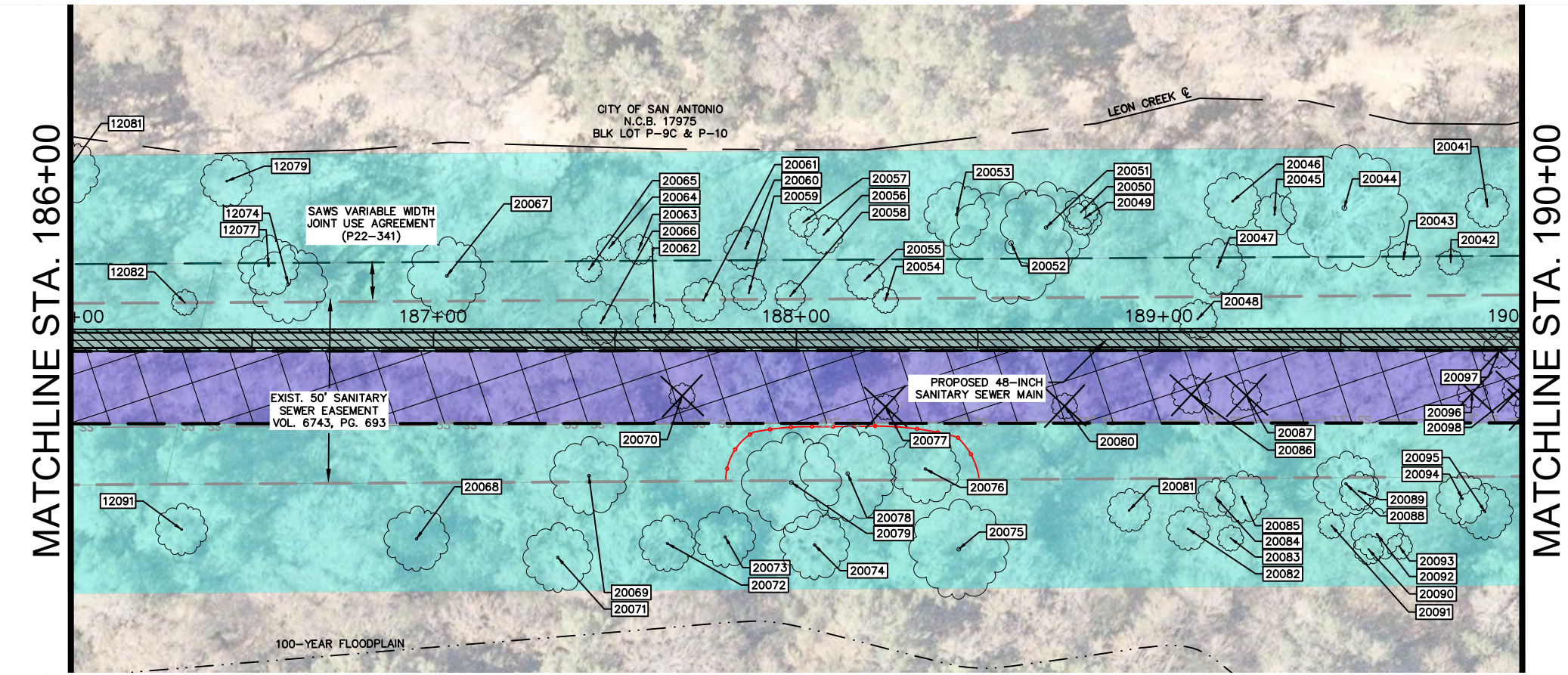
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 24 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501	SHEET NO. TP24
DESIGN: KHA	KHA PROJECT NO. 068665068	
DRAWN: KHA		
CHECKED: KHA		



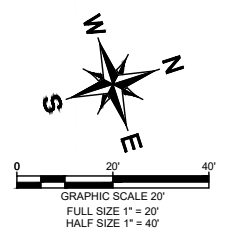
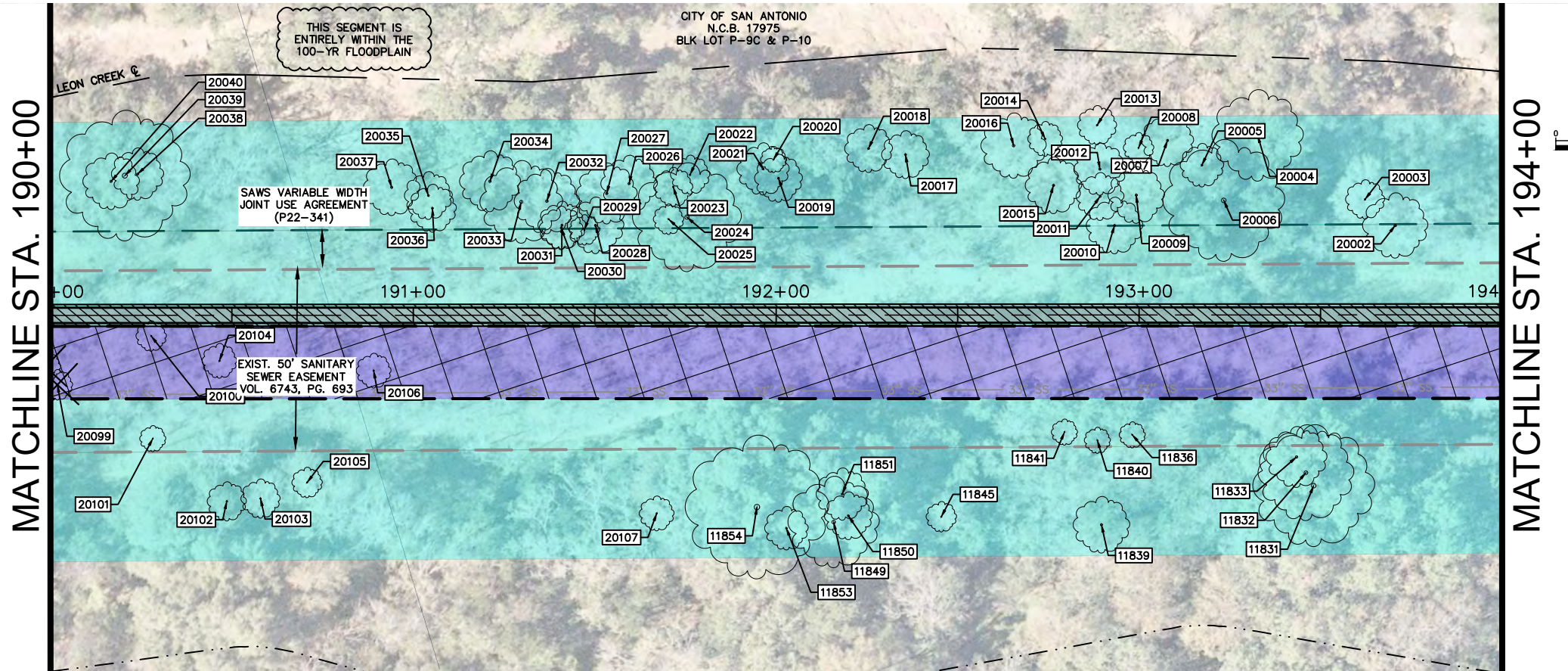
WALTON, LINDSEY 1/25/2023 10:25 AM
KSHA UTILITIES 068665068 CAD PLAN SHEET 24 OF 41
1/25/2023 10:17 AM
PLOTTED BY
DWG NAME
LAST SAVED



- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

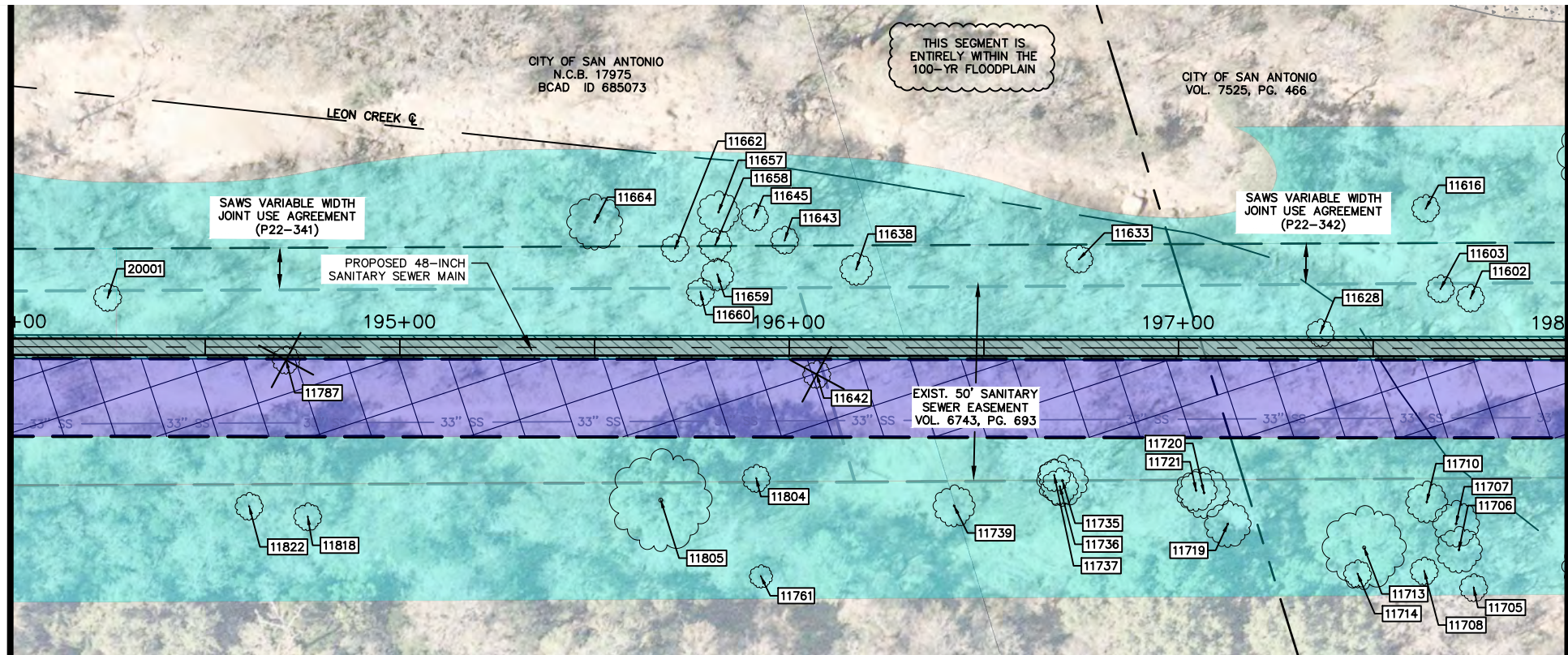
PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIa)	
TREE PROTECTION (LEVEL IIb)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



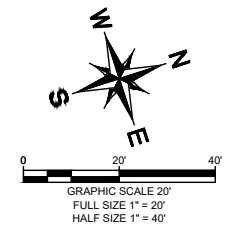
<p>THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR INTERIM REVIEW ONLY. IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.</p> <p>JEFFREY A. FARNSWORTH P.E. SERIAL NO. 80190 DATE: JANUARY 2024</p>		<p>Kimley»Horn</p> <p>Texas Registered Firm, No. F-928</p> <p>10101 Reunion Place Suite 400 Tel No. 210-541-9166 San Antonio, TX 78216</p>	
No.	Revision	By	Date
		<p>W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN</p> <p>SHEET</p> <p>TREE PROTECTION (SHEET 24A OF 41)</p>	
DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.	
DESIGN: KHA	22-4501		
DRAWN: KHA	KHA PROJECT NO.		
CHECKED: KHA	068665068	TP24A	

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DATE: 1/25/2023

MATCHLINE STA. 194+00



MATCHLINE STA. 198+00



- NOTES:**
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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San Antonio, TX 78216

No.	Revision	By	Date

SAN ANTONIO WATER SYSTEM

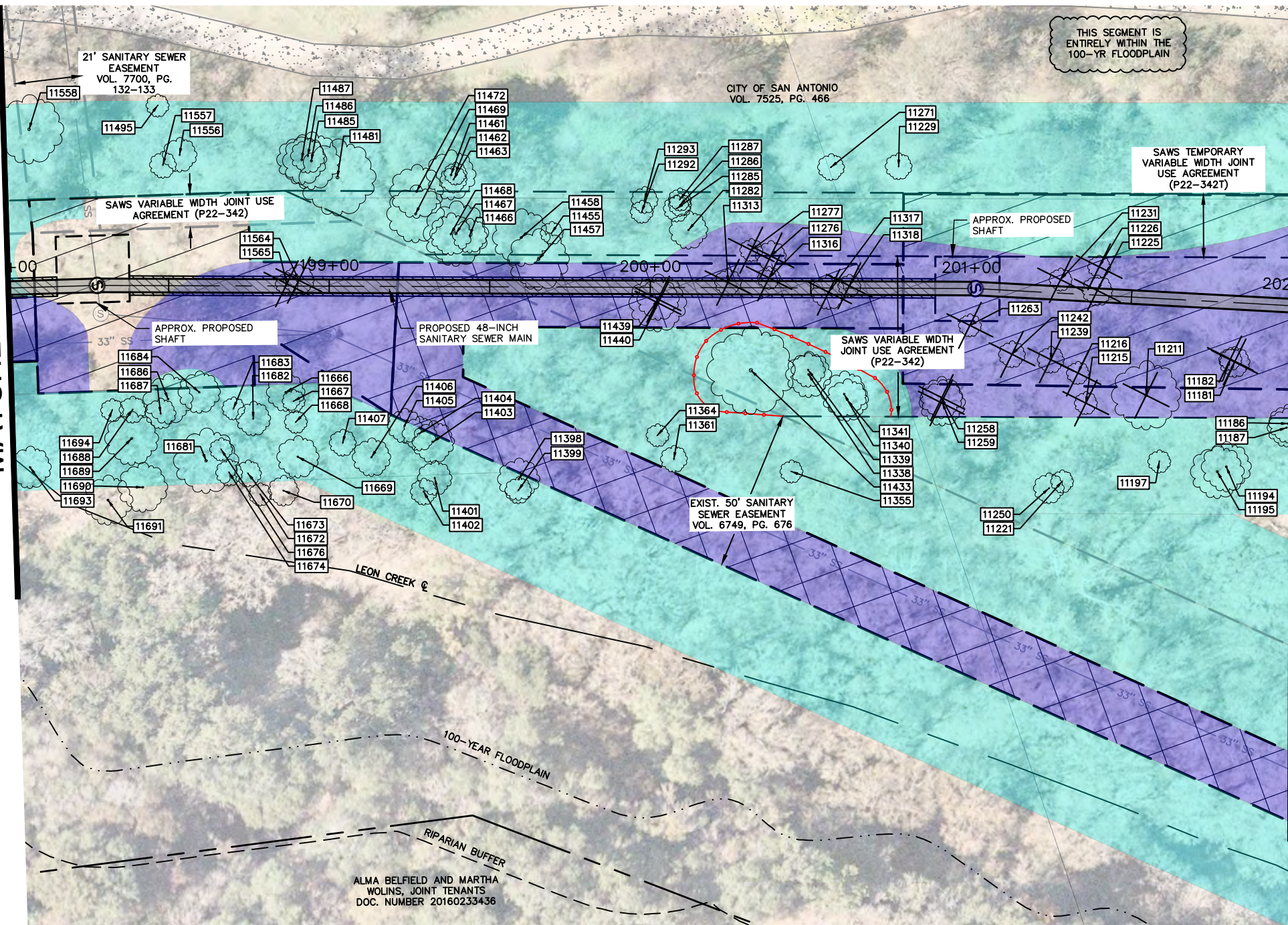
W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET

TREE PROTECTION (SHEET 25 OF 41)

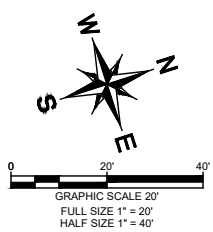
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MATCHLINE STA 198+00



MATCHLINE STA 202+00



- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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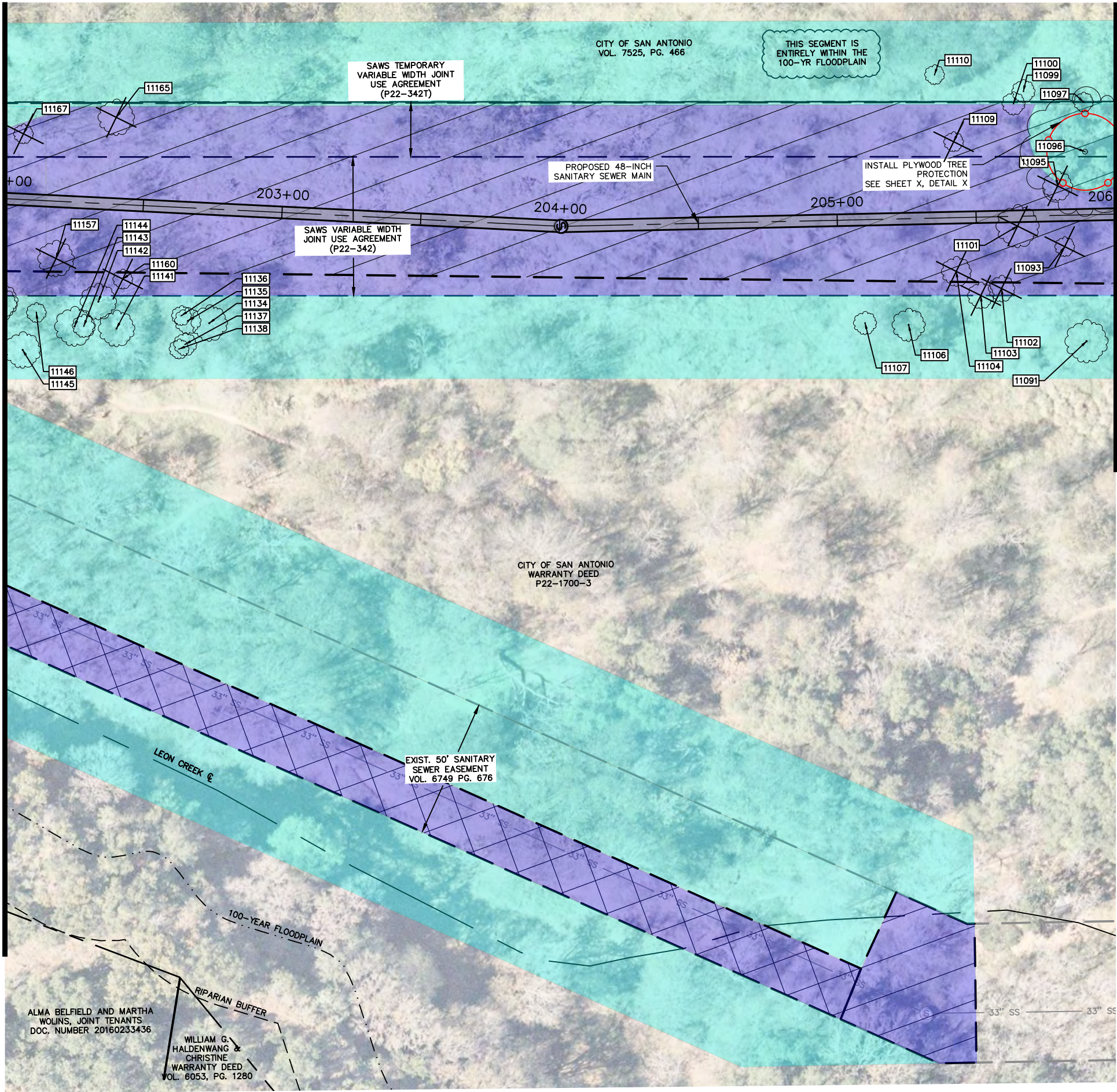
JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

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Texas Registered Firm, No. F-928
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

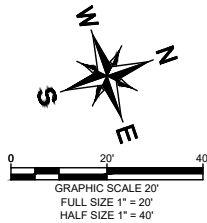
No.	Revision	By	Date

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	TREE PROTECTION (SHEET 26 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO. 22-4501
	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP26
CHECKED: KHA		

MATCHLINE STA 202+00



MATCHLINE STA 206+00



- NOTES:**
- REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPIARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

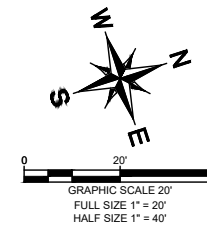
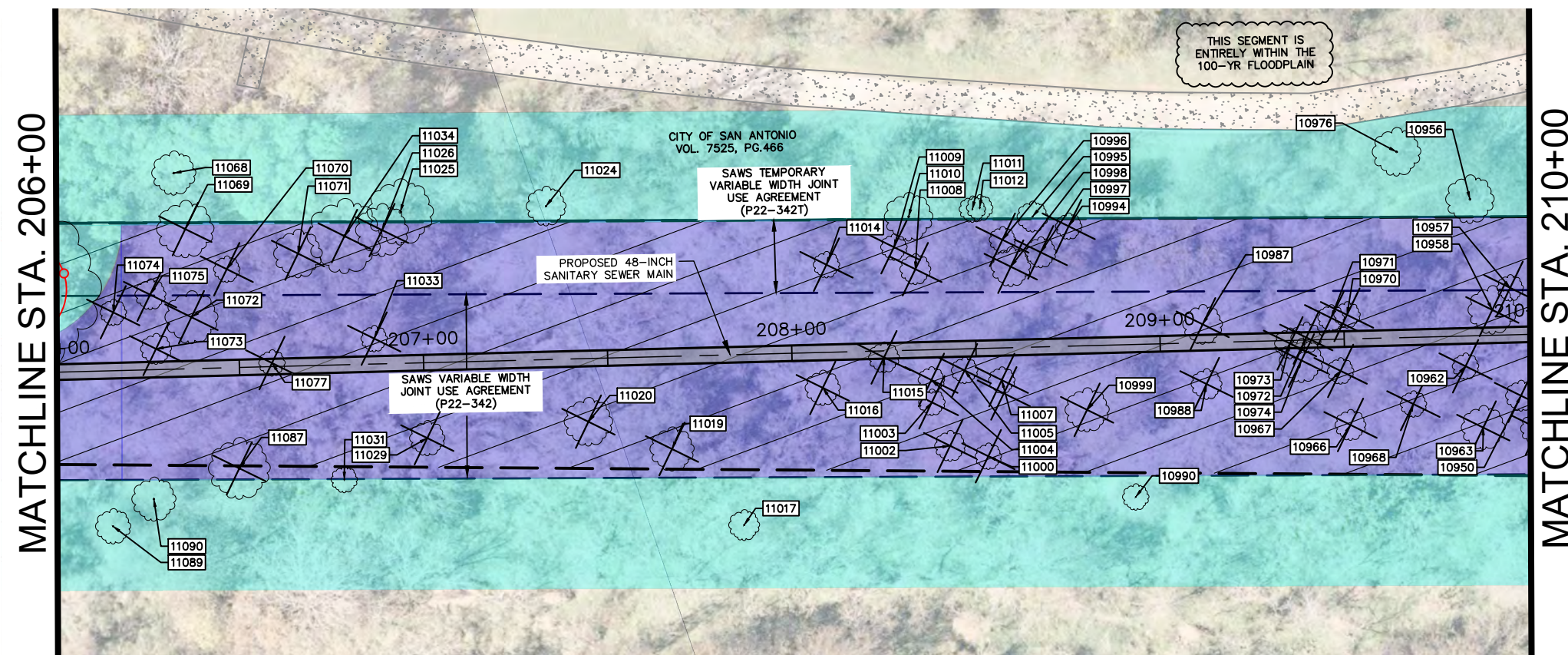
Texas Registered Firm, No. F-928

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San Antonio, TX 78216

No.	Revision	By	Date

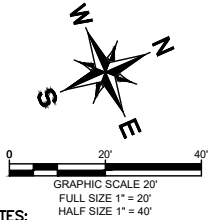
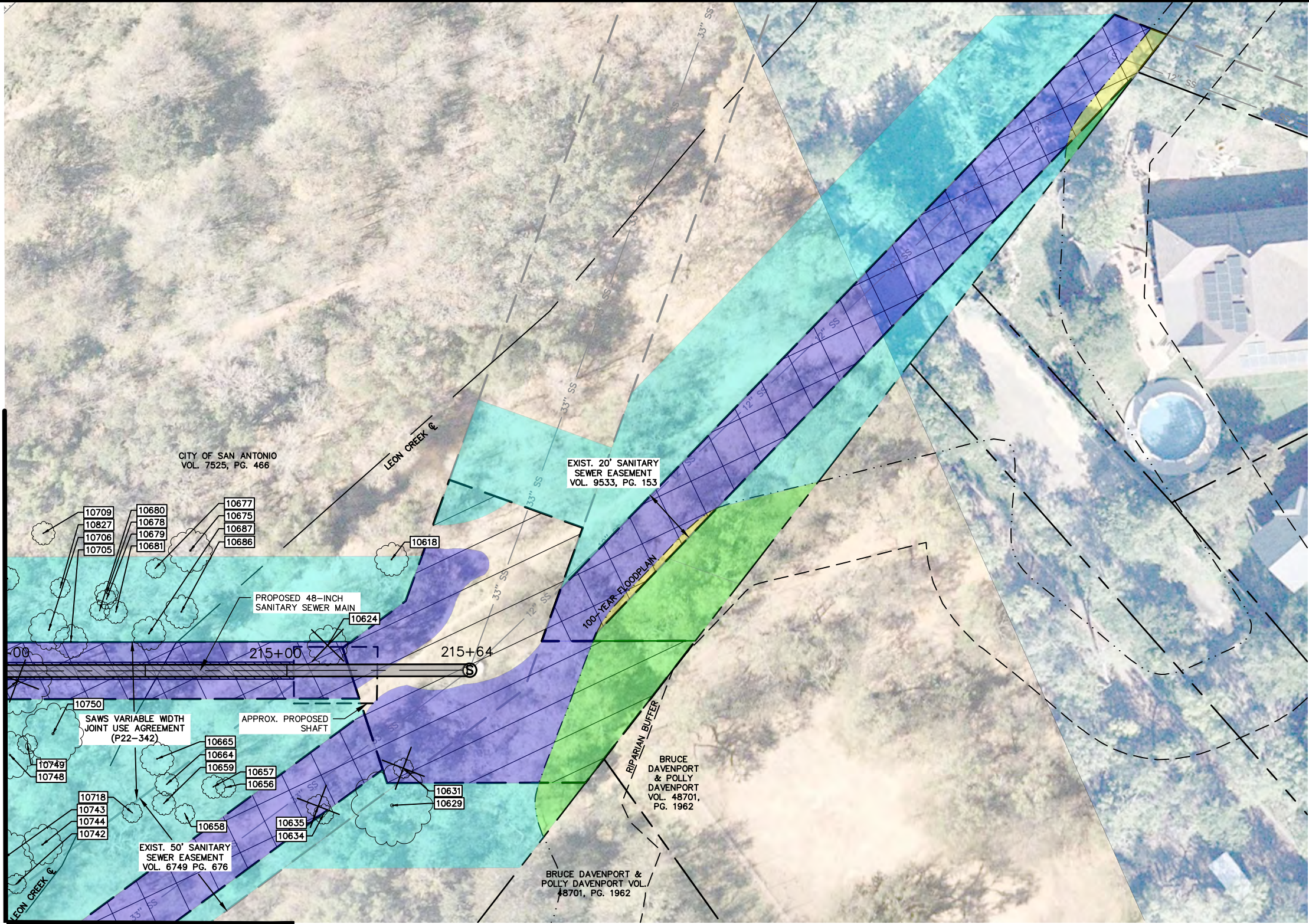
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	TREE PROTECTION (SHEET 26A OF 41)	
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	DESIGN: KHA	KHA PROJECT NO. 068665068
DRAWN: KHA		SHEET NO. TP26A
CHECKED: KHA		

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1/25/2023 10:27 AM
PLOTTED BY
DWG NAME
26A.DWG



MATCHLINE STA. 214+00

MATCHLINE SEE
SHEET TP27A



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

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San Antonio, TX 78216

No.	Revision	By	Date

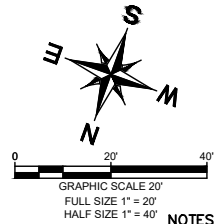


SAN
ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 28 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. TP28
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26–G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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Kimley»Horn

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No.	Revision	By	Date



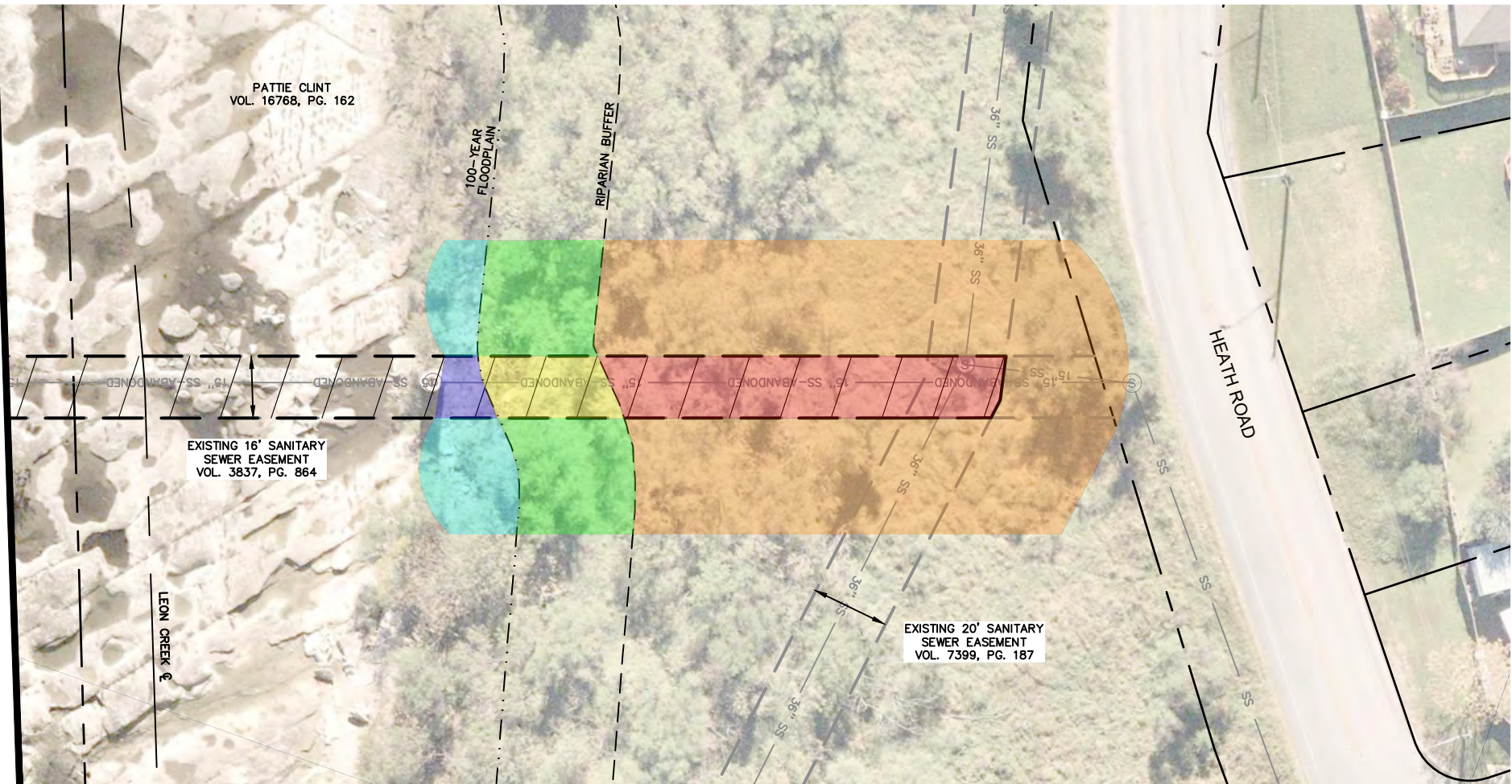
SAN ANTONIO WATER SYSTEM

W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 28A OF 41)

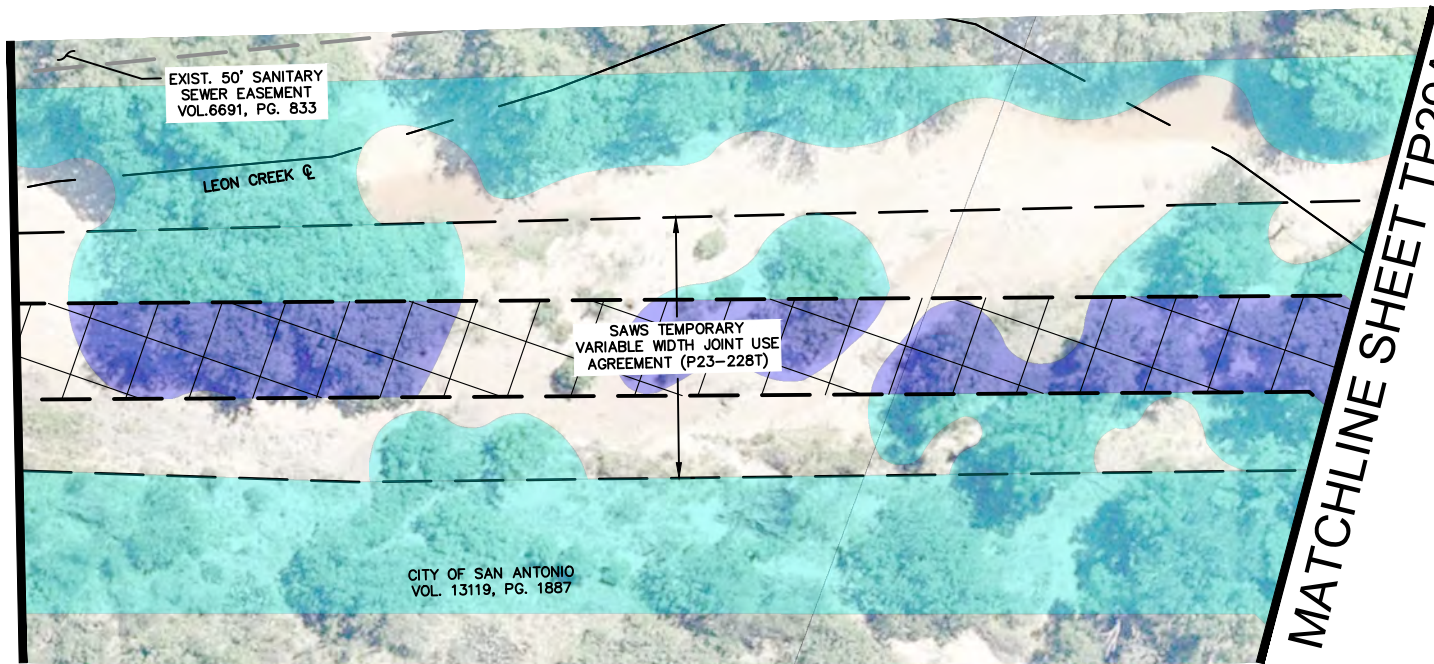
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CHECKED: KHA	068665068	

MATCHLINE SEE SHEET TP10

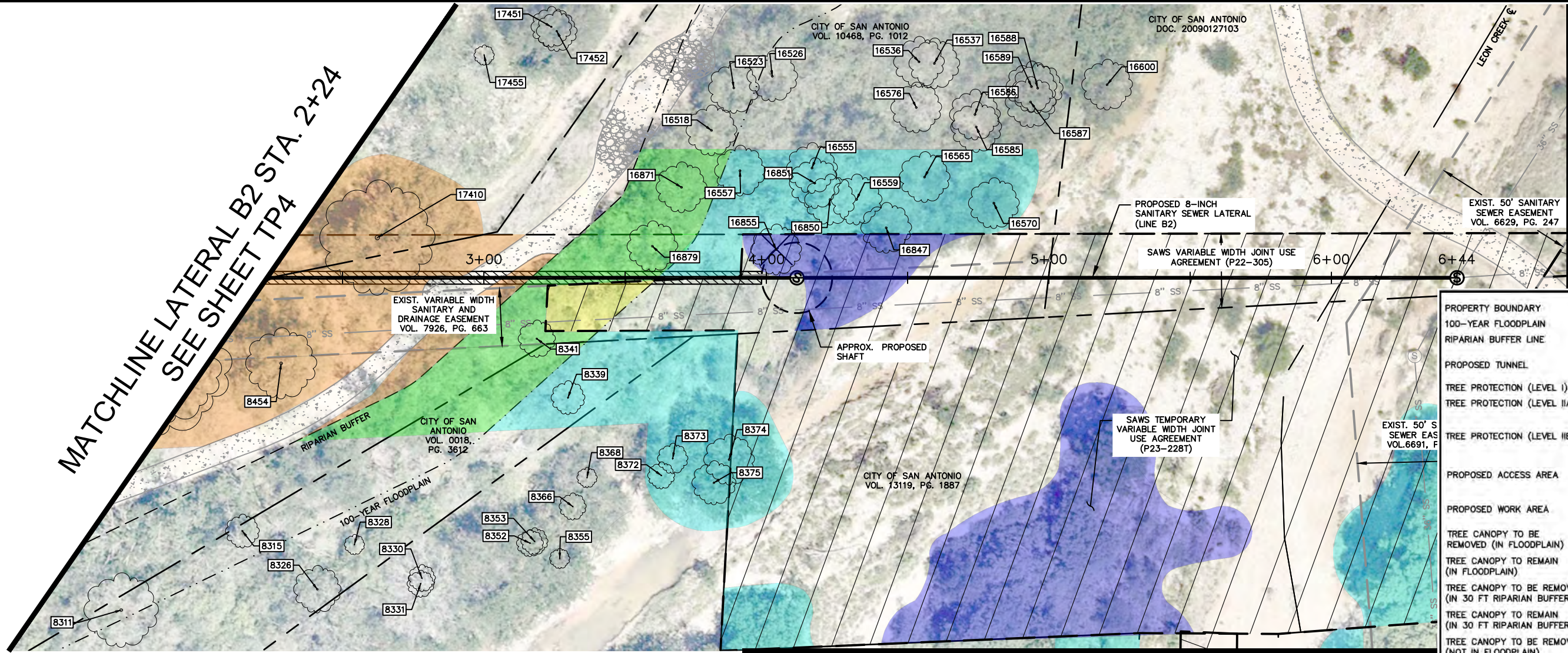


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DWG NAME
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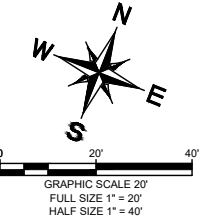
MATCHLINE THIS SHEET



MATCHLINE THIS SHEET



HEET TP29C



LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
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TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

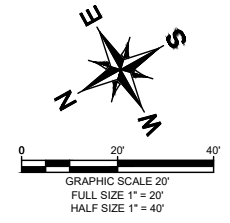
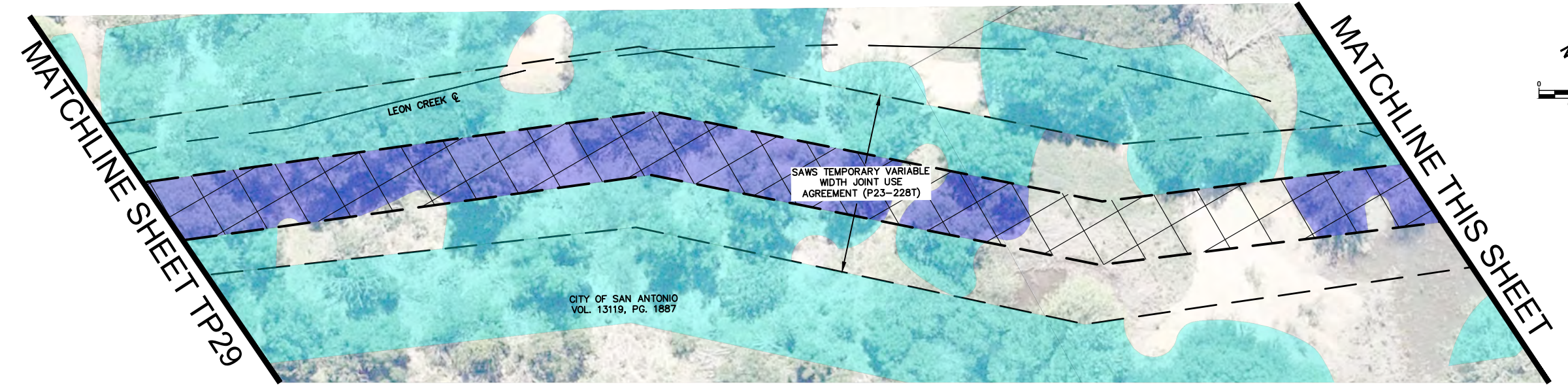
PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn
Texas Registered Firm, No. F-928
10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date

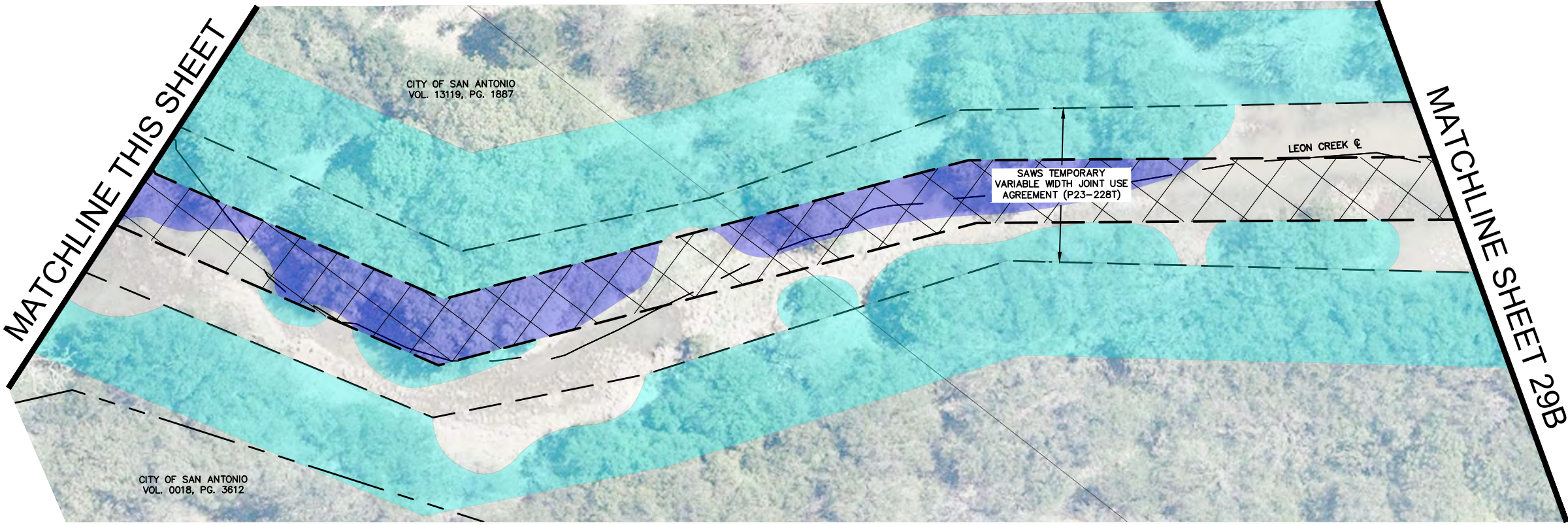
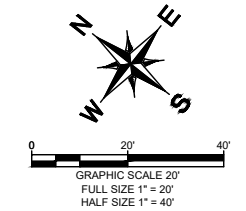
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	TREE PROTECTION (SHEET 29 OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	SHEET NO. TP29
CHECKED: KHA	068665068	



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	



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SERIAL NO. 80190
DATE: JANUARY 2024

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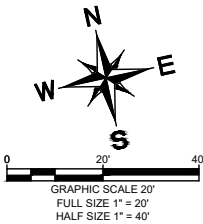
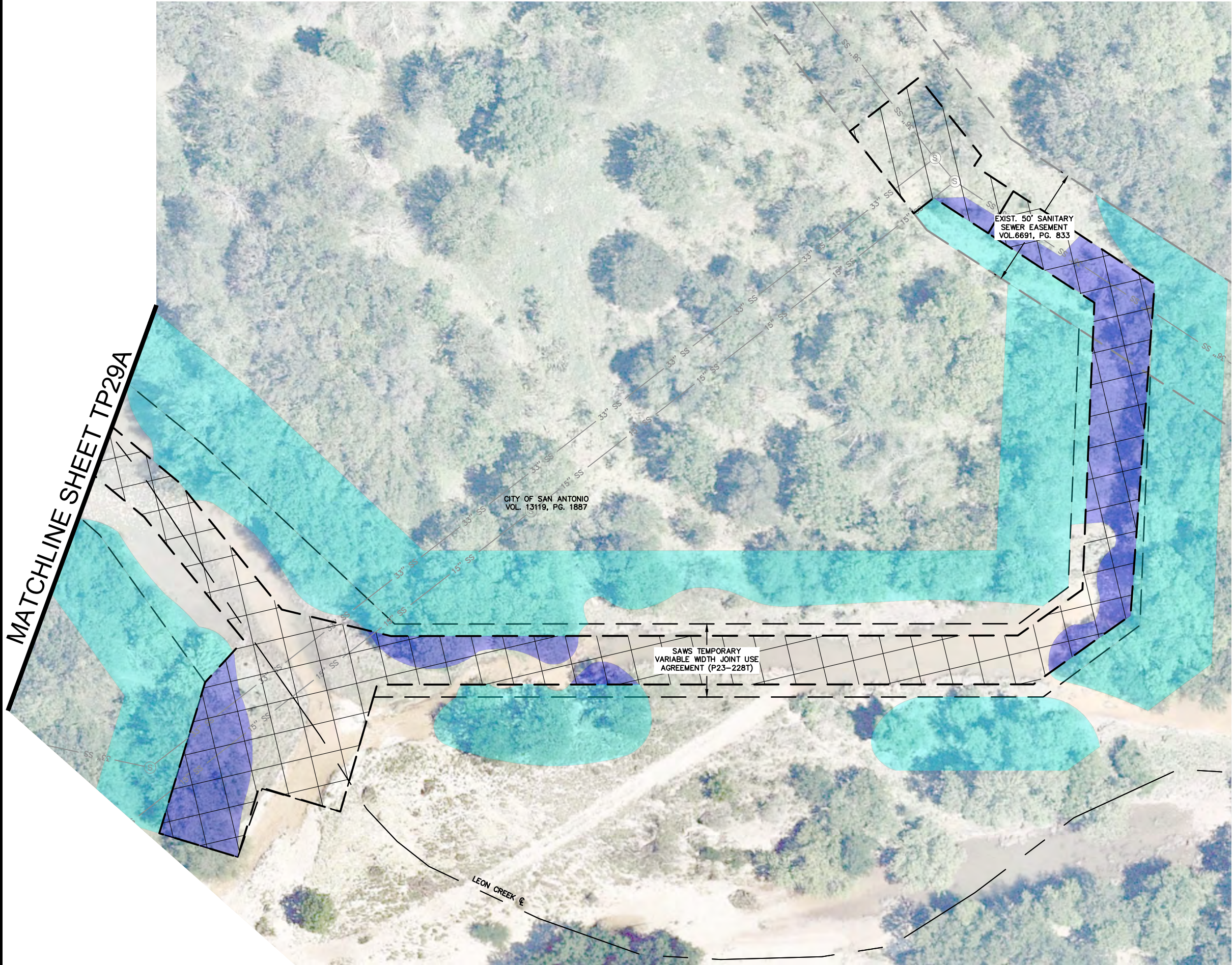
Texas Registered Firm, No. F-928

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San Antonio, TX 78216

No.	Revision	By	Date

	W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET	
	TREE PROTECTION (SHEET 29A OF 41)	
	DATE: JANUARY 2024	SAWS PROJECT NO.
	DESIGN: KHA	22-4501
DRAWN: KHA	KHA PROJECT NO.	SHEET NO. TP29A
CHECKED: KHA	068665068	

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PLOTTED BY
DWG NAME
LAST SAVED



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26–G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100–YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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No.	Revision	By	Date



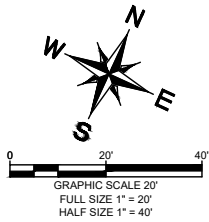
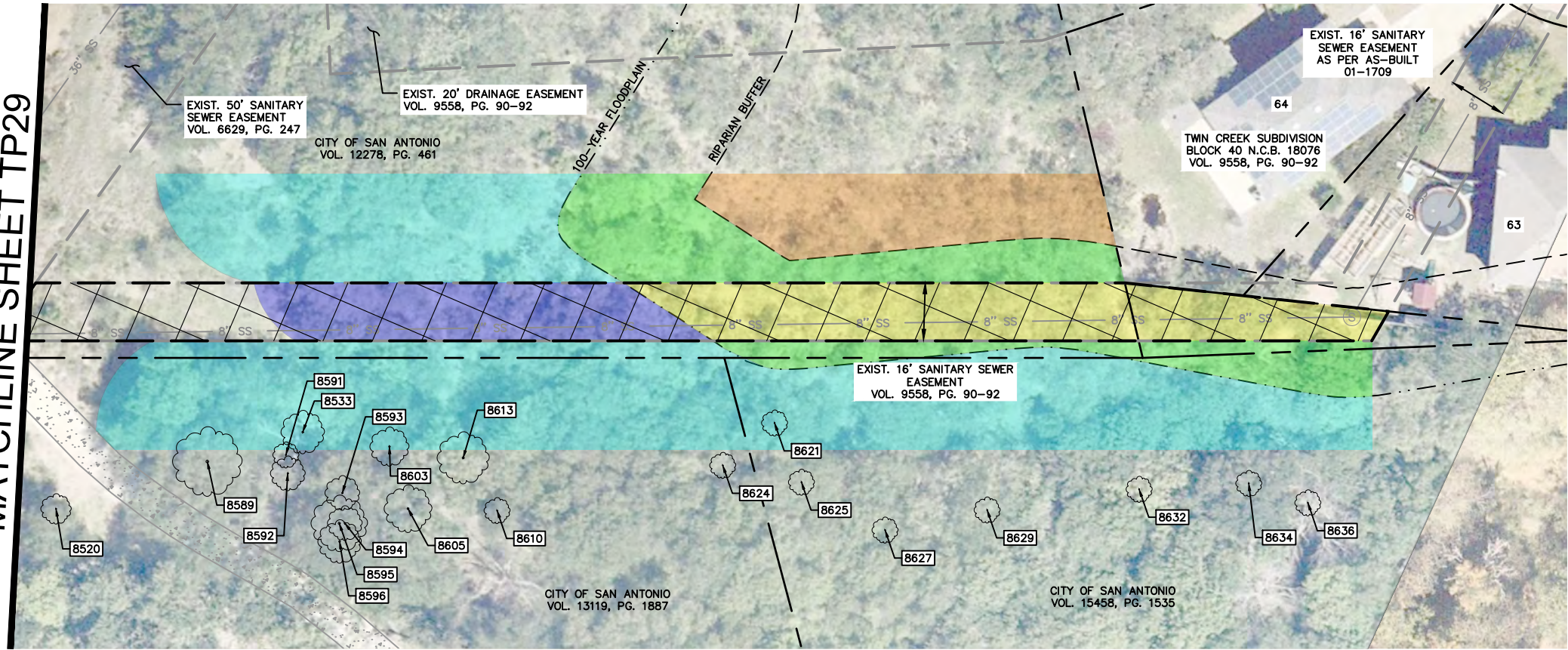
**W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48–INCH SEWER MAIN
SHEET**

**TREE PROTECTION
(SHEET 29B OF 41)**

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO.
DESIGN: KHA	22–4501	TP29B
DRAWN: KHA	KHA PROJECT NO.	
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PLOTTED BY
DWG NAME
LAST SAVED

MATCHLINE SHEET TP29



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



SAN
ANTONIO
WATER
SYSTEM

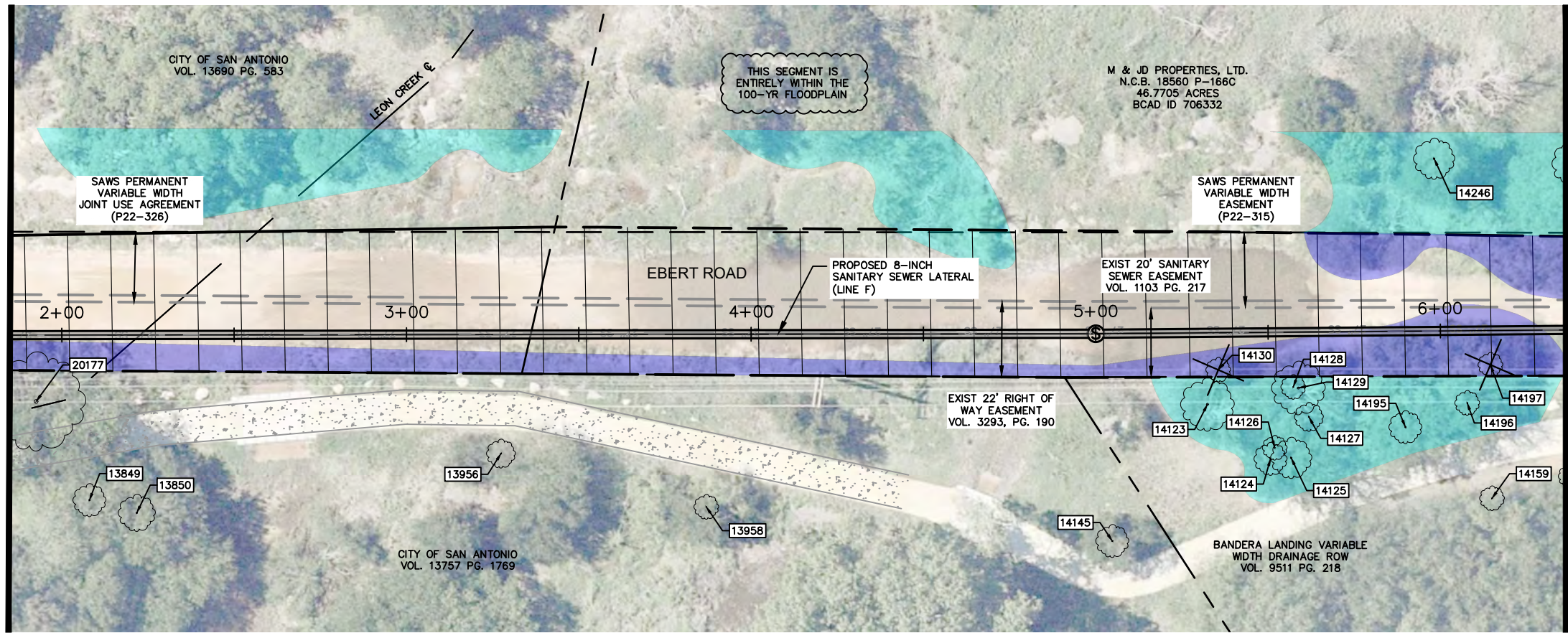
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CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 29C OF 41)

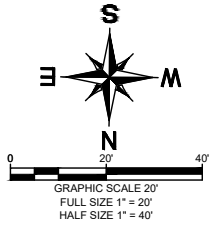
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CHECKED: KHA	068665068	

PLOTTED BY: WALTON, LINDSEY 1/25/2023 10:32 AM
 DWG NAME: K:\SNA UTILITIES\068665068\08\CAD\PLAN SHEET\TREE SHEETS\OUT OF 5.DWG
 DATE SAVED: 1/25/2023 9:11 AM

MATCHLINE LATERAL F STA. 1+86
 SEE SHEET TP19



MATCHLINE LATERAL F STA. 6+35
 SEE THIS SHEET



NOTES:

1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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 JEFFREY A. FARNSWORTH P.E.
 SERIAL NO. 80190
 DATE: JANUARY 2024

Kimley»Horn
 Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
 San Antonio, TX 78216

No.	Revision	By	Date



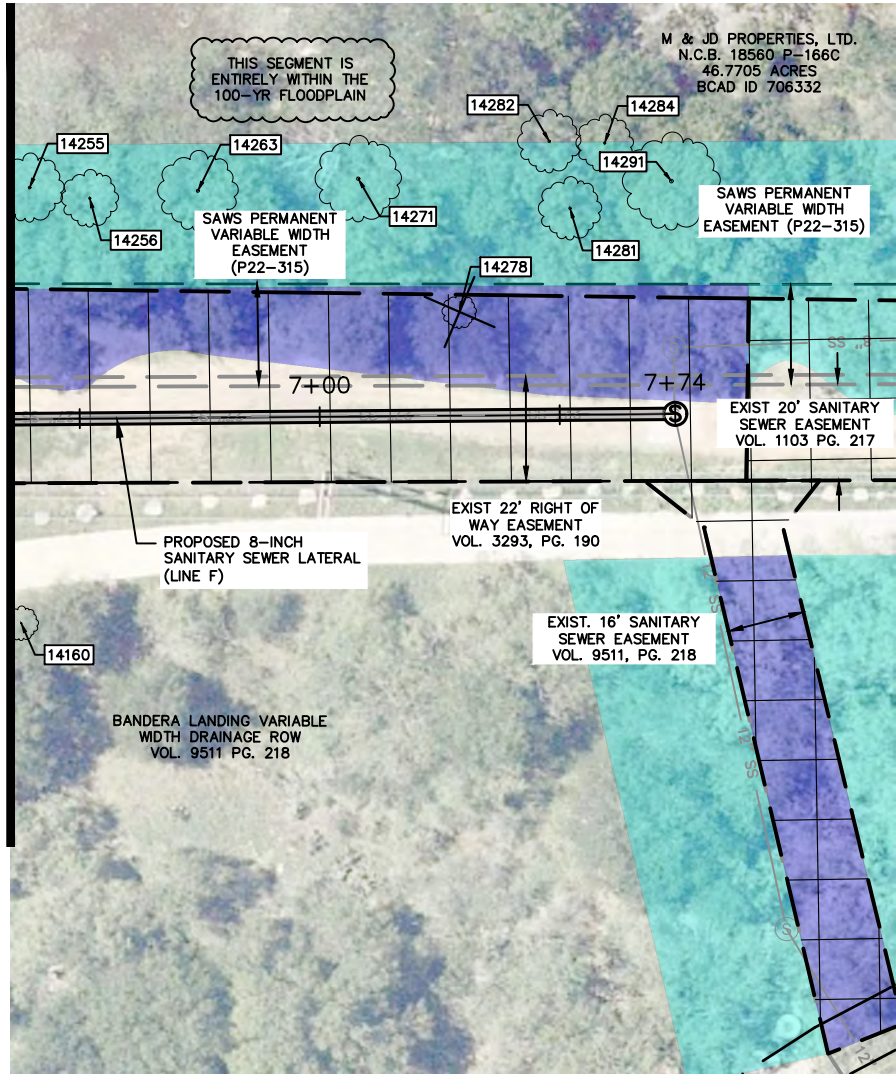
SAN
 ANTONIO
 WATER
 SYSTEM

W9 UPPER LEON: CULEBRA
 CREEK TO WHITBY ROAD
 48-INCH SEWER MAIN
 SHEET

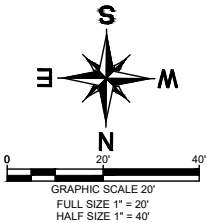
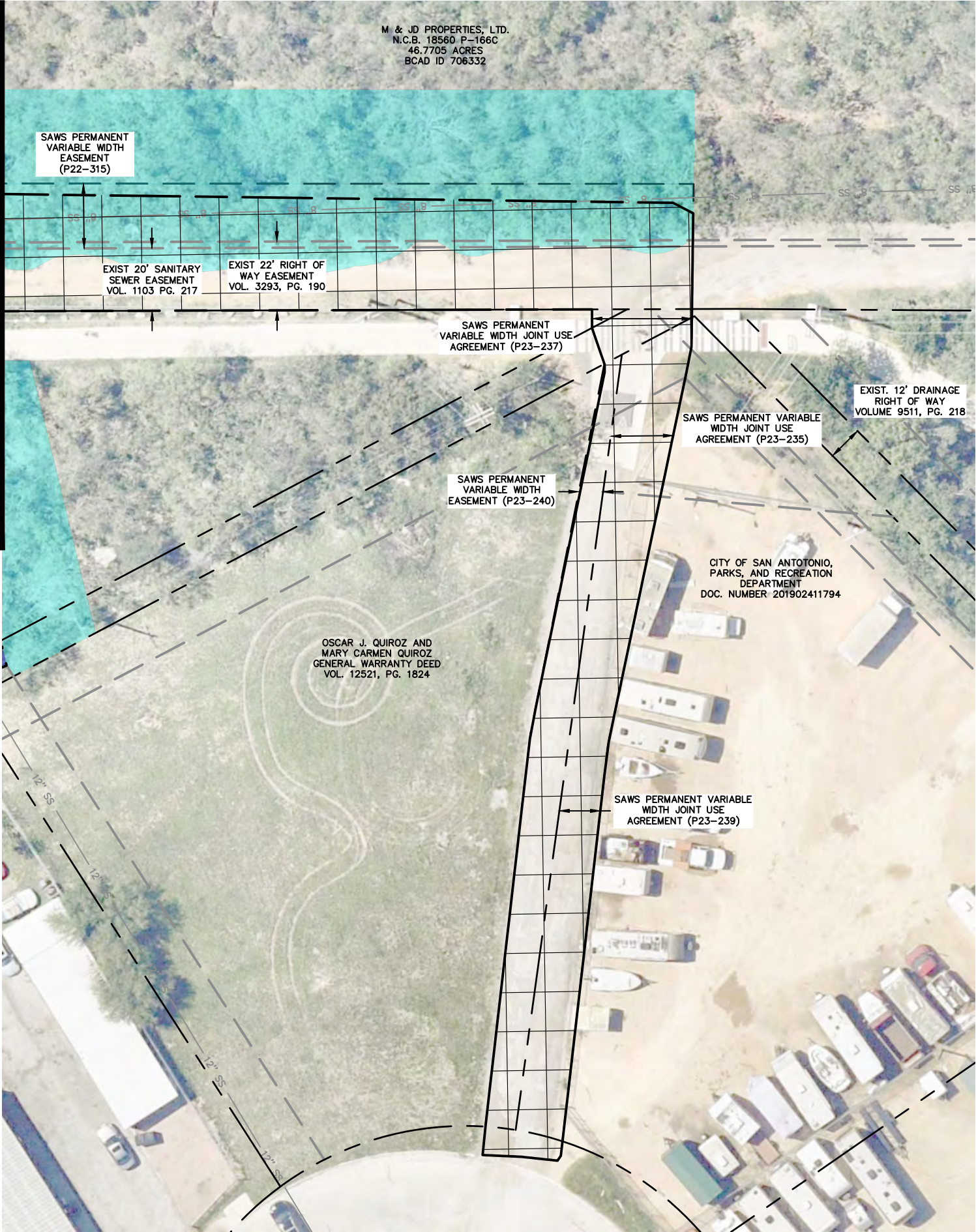
TREE PROTECTION
 (SHEET 30 OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. TP 30
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

MATCHLINE LATERAL F STA. 6+35
 SEE THIS SHEET



MATCHLINE LATERAL F STA. 1+86
SEE SHEET TP30



- NOTES:
1. REFER TO ACCESS AND STAGING SHEETS G26-G32 FOR ADDITIONAL REQUIREMENTS FOR ACCESS ROUTES AND WORKING AREAS.

LEGEND

PROPERTY BOUNDARY	
100-YEAR FLOODPLAIN	
RIPARIAN BUFFER LINE	
PROPOSED TUNNEL	
TREE PROTECTION (LEVEL I)	
TREE PROTECTION (LEVEL IIA)	
TREE PROTECTION (LEVEL IIB)	
PROPOSED ACCESS AREA	
PROPOSED WORK AREA	
TREE CANOPY TO BE REMOVED (IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (IN FLOODPLAIN)	
TREE CANOPY TO BE REMOVED (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO REMAIN (IN 30 FT RIPARIAN BUFFER)	
TREE CANOPY TO BE REMOVED (NOT IN FLOODPLAIN)	
TREE CANOPY TO REMAIN (NOT IN FLOODPLAIN)	
TREE PRESERVED	
TREE REMOVED	

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JEFFREY A. FARNSWORTH P.E.
SERIAL NO. 80190
DATE: JANUARY 2024

Kimley»Horn

Texas Registered Firm, No. F-928

10101 Reunion Place Suite 400 Tel No. 210-541-9166
San Antonio, TX 78216

No.	Revision	By	Date



SAN
ANTONIO
WATER
SYSTEM

W9 UPPER LEON: CULEBRA
CREEK TO WHITBY ROAD
48-INCH SEWER MAIN
SHEET

TREE PROTECTION
(SHEET 30A OF 41)

DATE: JANUARY 2024	SAWS PROJECT NO.	SHEET NO. TP 30A
DESIGN: KHA	22-4501	
DRAWN: KHA	KHA PROJECT NO.	
CHECKED: KHA	068665068	

WALTON, LINDSEY 1/25/2023 10:32 AM
K:\SNA UTILITIES\06865068\CADD\PLAN\TREE TREE INVENTORY 1 OF 41.DWG
1/25/2023 10:32 AM
PLOTTED BY
DWG NAME
LAST REVISED

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP2	7676	ELM	7	Y	N	N	N	Y	N	1
TP2	7688	ELM	6	Y	N	N	N	Y	N	1
TP2	7689	ELM	6	Y	N	N	N	Y	N	1
TP2	7691	HACKBERRY	13	Y	N	N	N	Y	N	1
TP2	7693	HACKBERRY	11	Y	N	N	N	Y	N	1
TP2	7695	ELM	6	Y	N	N	N	Y	N	1
TP2	7698	ELM	6	Y	N	N	N	Y	N	1
TP2	7699	ELM	6	Y	N	N	N	Y	N	1
TP2	7700	ELM	6	Y	N	N	N	Y	N	1
TP2	7713	HACKBERRY	17	Y	N	N	N	Y	N	1
TP2	7716	ELM	6	Y	N	N	N	Y	N	1
TP2	7720	ELM	6	Y	N	N	N	Y	N	1
TP2	7756	ELM	7	Y	N	N	N	Y	N	1
TP2	7757	ELM	6	Y	N	N	N	Y	N	1
TP2	7770	ELM	6	Y	N	N	N	Y	N	1
TP2	7824	ELM	6	Y	N	N	N	Y	N	1
TP2	7826	ELM	7	Y	N	N	N	Y	N	1
TP2	7831	ELM	6	Y	N	N	N	Y	N	1
TP2	7832	ELM	6	Y	N	N	N	Y	N	1
TP2	7837	MESQUITE	19	Y	N	N	N	Y	N	1
TP2	7842	ELM	6	Y	N	N	N	Y	N	1
TP2	7844	ELM	6	Y	N	N	N	Y	N	1
TP2	7845	ELM	6	Y	N	N	N	Y	N	1
TP2	7846	ELM	6	Y	N	N	N	Y	N	1
TP2	7847	ELM	7	Y	N	N	N	Y	N	1
TP2	7850	ELM	6	Y	N	N	N	Y	N	1
TP2	7851	ELM	6	Y	N	N	N	Y	N	1
TP2	7856	HUISACHE	13	Y	N	N	N	Y	N	1
TP2	7865	ELM	7	Y	N	N	N	Y	N	1
TP2	7880	ELM	7	Y	N	N	N	Y	N	1
TP2	7882	ELM	8	Y	N	N	N	Y	N	1
TP2	7884	MESQUITE	27	Y	Y	Y	N	Y	N	1
TP2	7889	ELM	6	Y	N	N	N	Y	N	1
TP2	7891	ELM	8	Y	N	N	N	Y	N	1
TP2	7892	ELM	6	Y	N	N	N	Y	N	1
TP2	7896	MESQUITE	29	Y	Y	Y	N	Y	N	1
TP2	7923	ELM	6	Y	N	N	N	N	Y	1
TP2	7927	MESQUITE	19	Y	N	N	N	N	N	1
TP2	7936	MESQUITE	16	Y	N	N	N	N	N	1
TP2	7939	HACKBERRY	18	Y	N	N	N	N	N	1
TP2	7955	HUISACHE	17	Y	N	N	N	N	Y	1
TP2	7957	ELM	9	Y	N	N	N	N	Y	1
TP2	7960	ELM	7	Y	N	N	N	N	N	1
TP2	7962	ELM	6	Y	N	N	N	N	Y	1
TP2	7968	HUISACHE	12	Y	N	N	N	N	N	1
TP2	7974	HUISACHE	13	Y	N	N	N	N	Y	1
TP2	7983	MESQUITE	22	Y	N	N	N	N	N	1
TP2	7991	MESQUITE	20	Y	N	N	N	N	Y	1
TP2	8002	PERSIMMON	6	Y	N	N	N	N	Y	1
TP2	8133	PERSIMMON	6	Y	N	N	N	Y	N	1
TP2	8137	PERSIMMON	6	Y	N	N	N	N	Y	1
TP2	8140	PERSIMMON	7	Y	N	N	N	Y	N	1
TP2	8142	ELM	17	Y	N	N	N	Y	N	1
TP2	8154	MESQUITE	13	Y	N	N	N	N	Y	1
TP2	8156	PERSIMMON	11	Y	N	N	N	N	Y	1
TP2	8161	PERSIMMON	6	Y	N	N	N	Y	N	1
TP2	8164	CONDALIA	6	Y	N	N	N	Y	N	1
TP2	8168	PERSIMMON	6	Y	N	N	N	Y	N	1
TP2	8173	LIVE OAK	36	Y	Y	Y	N	Y	N	1
TP2	8208	ELM	6	Y	N	N	N	Y	N	1
TP2	8210	ELM	6	Y	N	N	N	Y	N	1
TP2	8240	HACKBERRY	11	Y	N	N	N	Y	N	1
TP2	8138	PERSIMMON	5	N	N	N	N	N	Y	1
TP2	8145	PERSIMMON	5	N	N	N	N	Y	N	1
TP2	8150	PERSIMMON	5	N	N	N	N	Y	N	1
TP2	8158	PERSIMMON	5	N	N	N	N	N	Y	1
TP2	8160	PERSIMMON	5	N	N	N	N	Y	N	1
TP2	8162	PERSIMMON	5	N	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP3	8106	MESQUITE	23	Y	N	N	N	N	N	1
TP3	8181	PERSIMMON	6	Y	N	N	N	Y	N	1
TP3	8184	LIVE OAK	19	Y	N	N	N	Y	N	1
TP3	8187	LIVE OAK	19	Y	N	N	N	Y	N	1
TP3	8296	MESQUITE	12	Y	N	N	N	N	N	1
TP3	8298	MESQUITE	19	Y	N	N	N	N	N	1
TP3	8299	ELM	16	Y	N	N	N	N	N	1
TP3	8300	ELM	9	Y	N	N	N	N	N	1
TP3	8304	MESQUITE	18	Y	N	N	N	N	N	1
TP3	8307	LIVE OAK	17	Y	N	N	N	N	N	1
TP3	8308	LIVE OAK	13	Y	N	N	N	N	N	1
TP3	8309	HACKBERRY	13	Y	N	N	N	N	N	1
TP3	8450	LIVE OAK	42	Y	Y	Y	N	N	N	1
TP3	8451	LIVE OAK	31	Y	Y	Y	N	N	N	1
TP3	8646	LIVE OAK	37	Y	Y	Y	N	Y	N	1
TP3	16079	MESQUITE	18	Y	N	N	N	Y	N	1
TP3	16375	HACKBERRY	11	Y	N	N	N	N	N	1
TP3	16376	MESQUITE	24	Y	Y	Y	N	N	N	1
TP3	17423	MESQUITE	16	Y	N	N	N	N	N	1
TP3	17451	ELM	12	Y	N	N	N	Y	N	1
TP3	17452	ELM	12	Y	N	N	N	Y	N	1
TP3	17455	RETAMA	6	Y	N	N	N	Y	N	1
TP3	17719	MESQUITE	12	Y	N	N	N	N	N	1
TP3	17732	MESQUITE	11	Y	N	N	N	N	N	1
TP3	17733	MESQUITE	11	Y	N	N	N	N	N	1
TP3	17736	HACKBERRY	11	Y	N	N	N	N	N	1
TP3	17737	HACKBERRY	17	Y	N	N	N	N	N	1
TP3	17738	MESQUITE	12	Y	N	N	N	N	Y	1
TP3	17740	MESQUITE	14	Y	N	N	N	N	Y	1
TP3	17742	ELM	19	Y	N	N	N	N	Y	1
TP3	17743	MESQUITE	12	Y	N	N	N	N	N	1
TP3	17745	MESQUITE	16	Y	N	N	N	N	N	1
TP3	17746	MESQUITE	13	Y	N	N	N	N	N	1
TP3	17750	LIVE OAK	42	Y	Y	Y	N	N	N	1
TP3	17757	LIVE OAK	12	Y	N	N	N	Y	N	1
TP3A	16349	HACKBERRY	16+11"	Y	N	N	N	N	N	1
TP3A	16351	MESQUITE	11"	Y	N	N	N	N	N	1
TP3A	16357	MESQUITE	19+17"	Y	N	N	N	N	N	1
TP4	8658	ELM	8	Y	N	N	N	Y	N	1
TP4	8659	ELM	6	Y	N	N	N	Y	N	1
TP4	8660	ELM	10	Y	N	N	N	Y	N	1
TP4	8661	LIVE OAK	8	Y	N	N	N	Y	N	1
TP4	8662	LIVE OAK	6	Y	N	N	N	Y	N	1
TP4	8663	LIVE OAK	12	Y	N	N	N	Y	N	1
TP4	8664	ELM	9	Y	N	N	N	Y	N	1
TP4	8665	LIVE OAK	12	Y	N	N	N	Y	N	1
TP4	8669	ELM	7	Y	N	N	N	Y	N	1
TP4	8671	LIVE OAK	16	Y	N	N	N	Y	N	1
TP4	8672	ELM	6	Y	N	N	N	Y	N	1
TP4	8673	ELM	8	Y	N	N	N	Y	N	1
TP4	8675	LIVE OAK	11	Y	N	N	N	Y	N	1
TP4	8676	ELM	8	Y	N	N	N	Y	N	1
TP4	8677	ELM	8	Y	N	N	N	Y	N	1
TP4	8681	LIVE OAK	13	Y	N	N	N	Y	N	1
TP4	8682	ELM	17	Y	N	N	N	Y	N	1
TP4	8688	LIVE OAK	12	Y	N	N	N	Y	N	1
TP4	8713	ELM	6	Y	N	N	N	Y	N	1
TP4	8714	ELM	6	Y	N	N	N	Y	N	1
TP4	8715	LIVE OAK	8	Y	N	N	N	Y	N	1
TP4	8716	ELM	6	Y	N	N	N	Y	N	1
TP4	8717	ELM	6	Y	N	N	N	Y	N	1
TP4	8718	ELM	6	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP4	8725	ELM	9	Y	N	N	N	Y	N	1
TP4	8726	ELM	6	Y	N	N	N	Y	N	1
TP4	8741	ELM	12	Y	N	N	N	Y	N	1
TP4	8746	LIVE OAK	25	Y	Y	Y	N	Y	N	1
TP4	8747	ELM	16	Y	N	N	N	Y	N	1
TP4	8753	ELM	7	Y	N	N	N	Y	N	1
TP4	8754	ELM	11	Y	N	N	N	Y	N	1
TP4	8755	ELM	7	Y	N	N	N	Y	N	1
TP4	8756	ELM	13	Y	N	N	N	Y	N	1
TP4	8757	ELM	9	Y	N	N	N	Y	N	1
TP4	8764	ELM	7	Y	N	N	N	Y	N	1
TP4	8765	ELM	8	Y	N	N	N	Y	N	1
TP4	8767	ELM	6	Y	N	N	N	Y	N	1
TP4	8768	ELM	9	Y	N	N	N	Y	N	1
TP4	8769	ELM	6	Y	N	N	N	Y	N	1
TP4	8777	ELM	6	Y	N	N	N	Y	N	1
TP4	8778	ELM	10	Y	N	N	N	Y	N	1
TP4	8779	LIVE OAK	13	Y	N	N	N	Y	N	1
TP4	8781	ELM	8	Y	N	N	N	Y	N	1
TP4	8782	ELM	6	Y	N	N	N	Y	N	1
TP4	8783	ELM	8	Y	N	N	N	Y	N	1
TP4	8784	ELM	6	Y	N	N	N	Y	N	1
TP4	8785	ELM	6	Y	N	N	N	Y	N	1
TP4	8787	ELM	7	Y	N	N	N	Y	N	1
TP4	8788	ELM	6	Y	N	N	N	Y	N	1
TP4	8791	ELM	12	Y	N	N	N	Y	N	1
TP4	8796	ELM	9	Y	N	N	N	Y	N	1
TP4	8797	ELM	6	Y	N	N	N	Y	N	1
TP4	8798	ELM	8	Y	N	N	N	Y	N	1
TP4	8802	ELM	6	Y	N	N	N	Y	N	1
TP4	8803	ELM	7	Y	N	N	N	Y	N	1
TP4	8804	ELM	11	Y	N	N	N	Y	N	1
TP4	8805	ELM	14	Y	N	N	N	Y	N	1
TP4	8811	ELM	12	Y	N	N	N	Y	N	1
TP4	8812	ELM	17	Y	N	N	N	Y	N	1
TP4	8813	HACKBERRY	17	Y	N	N	N	Y	N	1
TP4	8814	ELM	6	Y	N	N	N	Y	N	1
TP4	8815	PERSIMMON	5	N	N	N	N	Y	N	1
TP4	8819	ELM	12	Y	N	N	N	Y	N	1
TP4	8820	ELM	18	Y	N	N	N	Y	N	1
TP4	8823	ELM	7	Y	N	N	N	Y	N	1
TP4	8824	ELM	6	Y	N	N	N	Y	N	1
TP4	8810	PERSIMMON	5	N	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:32 AM
K:\SNA UTILITIES\06865068\CADD\PLAN SHEET\TREE TREE INVENTORY 1 OF 4.DWG
1/25/2023 10:32 AM
PLOTTED BY
DWG NAME
LAST REV'D

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP4	8825	ELM	11	Y	N	N	N	Y	N	1
TP4	8826	HACKBERRY	16	Y	N	N	N	Y	N	1
TP4	8829	HACKBERRY	11	Y	N	N	N	Y	N	1
TP4	8831	HACKBERRY	18	Y	N	N	N	Y	N	1
TP4	8837	ELM	8	Y	N	N	N	Y	N	1
TP4	8839	ELM	7	Y	N	N	N	Y	N	1
TP4	8931	LIVE OAK	21	Y	N	N	N	Y	N	1
TP4	8936	ELM	6	Y	N	N	N	Y	N	1
TP4	8937	ELM	7	Y	N	N	N	Y	N	1
TP4	8939	ELM	6	Y	N	N	N	Y	N	1
TP4	8941	ELM	7	Y	N	N	N	Y	N	1
TP4	8942	ELM	7	Y	N	N	N	Y	N	1
TP4	9081	ELM	11	Y	N	N	N	Y	N	1
TP4	9083	ELM	10	Y	N	N	N	Y	N	1
TP4	9087	ELM	8	Y	N	N	N	Y	N	1
TP4	9088	ELM	9	Y	N	N	N	Y	N	1
TP4	9090	ELM	6	Y	N	N	N	Y	N	1
TP4	9092	HACKBERRY	14	Y	N	N	N	Y	N	1
TP4	9094	ELM	6	Y	N	N	N	Y	N	1
TP4	17792	LIVE OAK	23	Y	N	N	N	Y	N	1
TP5	9096	ASHE JUNIPER	8	Y	N	N	N	Y	N	1
TP5	9099	ELM	6	Y	N	N	N	Y	N	1
TP5	9109	ELM	9	Y	N	N	N	Y	N	1
TP5	9110	ASHE JUNIPER	7	Y	N	N	N	Y	N	1
TP5	9111	ASHE JUNIPER	6	Y	N	N	N	Y	N	1
TP5	9165	COTTON WOOD	12	Y	N	N	N	Y	N	REMOVE
TP5	9166	COTTON WOOD	14	Y	N	N	N	Y	N	REMOVE
TP5	9167	COTTON WOOD	15	Y	N	N	N	Y	N	REMOVE
TP5	9168	COTTON WOOD	19	Y	N	N	N	Y	N	REMOVE
TP5	9171	ELM	10	Y	N	N	N	Y	N	1
TP5	9214	ASHE JUNIPER	6	Y	N	N	N	Y	N	REMOVE
TP5	9215	ASHE JUNIPER	8	Y	N	N	N	Y	N	REMOVE
TP5	9216	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP5	9217	ASHE JUNIPER	6	Y	N	N	N	Y	N	REMOVE
TP5	9218	ASHE JUNIPER	6	Y	N	N	N	Y	N	REMOVE
TP5	9219	ASHE JUNIPER	7	Y	N	N	N	Y	N	REMOVE
TP5	9220	ELM	6	Y	N	N	N	Y	N	REMOVE
TP5	9221	ELM	6	Y	N	N	N	Y	N	REMOVE
TP5	9222	ELM	6	Y	N	N	N	Y	N	REMOVE
TP5	9223	ASHE JUNIPER	6	Y	N	N	N	Y	N	REMOVE
TP5	9231	ELM	7	Y	N	N	N	Y	N	1
TP5	9304	ELM	6	Y	N	N	N	Y	N	1
TP5	9316	ELM	6	Y	N	N	N	Y	N	1
TP5	9319	HUISACHE	11	Y	N	N	N	Y	N	1
TP5	9330	ELM	6	Y	N	N	N	Y	N	REMOVE
TP5	9340	HUISACHE	15	Y	N	N	N	Y	N	REMOVE
TP5	9345	ELM	6	Y	N	N	N	Y	N	1
TP5	9346	ELM	6	Y	N	N	N	Y	N	1
TP5	9347	ELM	6	Y	N	N	N	Y	N	1
TP5	9362	ELM	15	Y	N	N	N	Y	N	1
TP5	9363	ELM	6	Y	N	N	N	Y	N	1
TP5	9368	ELM	6	Y	N	N	N	Y	N	1
TP5	9369	ELM	6	Y	N	N	N	Y	N	1
TP5	9395	ELM	9	Y	N	N	N	Y	N	1
TP5	9396	ELM	11	Y	N	N	N	Y	N	1
TP5	9397	ELM	10	Y	N	N	N	Y	N	1
TP6	9406	ELM	16	Y	N	N	N	Y	N	1
TP6	9408	ELM	6	Y	N	N	N	Y	N	1
TP6	9409	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP6	9414	ELM	12	Y	N	N	N	Y	N	1
TP6	9417	ELM	15	Y	N	N	N	Y	N	1
TP6	9418	ELM	9	Y	N	N	N	Y	N	1
TP6	9421	ELM	18	Y	N	N	N	Y	N	1
TP6	9457	ELM	11	Y	N	N	N	Y	N	REMOVE
TP6	9472	ELM	10	Y	N	N	N	Y	N	REMOVE
TP6	9485	ELM	8	Y	N	N	N	Y	N	REMOVE
TP6	9505	ELM	8	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP6	9486	ELM	7	Y	N	N	N	Y	N	1
TP6	9594	PERSIMMON	5	N	N	N	N	Y	N	1
TP6	9487	ELM	6	Y	N	N	N	Y	N	1
TP6	9489	ELM	6	Y	N	N	N	Y	N	1
TP6	9494	ELM	6	Y	N	N	N	Y	N	1
TP6	9495	ELM	6	Y	N	N	N	Y	N	1
TP6	9498	ELM	11	Y	N	N	N	Y	N	1
TP6	9499	ELM	7	Y	N	N	N	Y	N	1
TP6	9517	ASHE JUNIPER	12	Y	N	N	N	Y	N	1
TP6	9552	ELM	6	Y	N	N	N	Y	N	1
TP6	9553	ASHE JUNIPER	8	Y	N	N	N	Y	N	1
TP6	9562	LIVE OAK	25	Y	Y	Y	N	Y	N	1
TP6	9563	ELM	7	Y	N	N	N	Y	N	1
TP6	9564	LIVE OAK	13	Y	N	N	N	Y	N	1
TP6	9591	LIVE OAK	26	Y	Y	Y	N	Y	N	1
TP6	9592	CEDAR	11	Y	N	N	N	Y	N	1
TP6	9593	ELM	11	Y	N	N	N	Y	N	1
TP6	9597	MESQUITE	10	Y	N	N	N	Y	N	1
TP6A	9657	MESQUITE	10	Y	N	N	N	Y	N	1
TP6A	9663	HUISACHE	10	Y	N	N	N	Y	N	REMOVE
TP7	9688	HUISACHE	10	Y	N	N	N	Y	N	1
TP7	9703	MESQUITE	10	Y	N	N	N	Y	N	REMOVE
TP7	9704	HACKBERRY	12	Y	N	N	N	Y	N	1
TP7	9720	MESQUITE	12	Y	N	N	N	Y	N	1
TP7	9721	HACKBERRY	10	Y	N	N	N	Y	N	1
TP7A	7417	HACKBERRY	13	Y	N	N	N	Y	N	1
TP7A	10056	MESQUITE	10	Y	N	N	N	Y	N	1
TP7A	10057	MESQUITE	11	Y	N	N	N	Y	N	1
TP7A	10099	HUISACHE	12	Y	N	N	N	Y	N	REMOVE
TP7A	10103	ASHE JUNIPER	8	Y	N	N	N	Y	N	REMOVE
TP7A	10104	ASHE JUNIPER	6	Y	N	N	N	Y	N	REMOVE
TP7A	10111	HACKBERRY	14	Y	N	N	N	Y	N	1
TP8	7422	ELM	9	Y	N	N	N	Y	N	1
TP8	7424	ELM	8	Y	N	N	N	Y	N	1
TP8	7425	COTTON WOOD	11	Y	N	N	N	Y	N	REMOVE
TP8	7426	COTTON WOOD	7	Y	N	N	N	Y	N	REMOVE
TP8	7427	COTTON WOOD	8	Y	N	N	N	Y	N	REMOVE
TP8	7428	COTTON WOOD	9	Y	N	N	N	Y	N	REMOVE
TP8	7430	ELM	8	Y	N	N	N	Y	N	1
TP8	7431	ELM	6	Y	N	N	N	Y	N	REMOVE
TP8	7432	ELM	6	Y	N	N	N	Y	N	REMOVE
TP8	10302	HUISACHE	12	Y	N	N	N	Y	N	REMOVE
TP9	7433	ELM	8	Y	N	N	N	Y	N	REMOVE
TP9	7434	ELM	8	Y	N	N	N	Y	N	REMOVE
TP9	7435	ELM	6	Y	N	N	N	Y	N	1
TP9	7436	ELM	8	Y	N	N	N	Y	N	REMOVE
TP9	7437	ELM	9	Y	N	N	N	Y	N	REMOVE
TP9	7438	CEDAR	11	Y	N	N	N	Y	N	REMOVE
TP9	7439	CEDAR	10	Y	N	N	N	Y	N	REMOVE
TP9	7440	CEDAR	10	Y	N	N	N	Y	N	REMOVE
TP9	7441	CEDAR	10	Y	N	N	N	Y	N	REMOVE
TP9	7442	ELM	6	Y	N	N	N	Y	N	REMOVE
TP9	7443	CEDAR	13	Y	N	N	N	Y	N	REMOVE
TP9	7444	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7445	CEDAR	10	Y	N	N	N	Y	N	REMOVE
TP9	7449	ELM	7	Y	N	N	N	Y	N	1
TP9	7450	RED OAK	6	Y	N	N	N	Y	N	REMOVE
TP9	7451	ELM	6	Y	N	N	N	Y	N	1
TP9	7452	ELM	6	Y	N	N	N	Y	N	1
TP9	7453	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7454	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7455	ELM	6	Y	N	N	N	Y	N	REMOVE
TP9	7456	TR	6	Y	N	N	N	Y	N	REMOVE
TP9	7457	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7458	ELM	8	Y	N	N	N	Y	N	REMOVE
TP9	7459	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7460	ELM	7	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP9	7461	ELM	8	Y	N	N	N	Y	N	REMOVE
TP9	7510	ELM	7	Y	N	N	N	Y	N	REMOVE
TP9	7528	CEDAR	10	Y	N	N	N	Y	N	1
TP9	7529	CEDAR	6	Y	N	N	N	Y	N	1
TP10	7305	ELM	8	Y	N	N	N	Y	N	1
TP10	7306	ELM	7	Y	N	N	N	Y	N	1
TP10	7307	ELM	7	Y	N	N	N	Y	N	1
TP10	7308	ELM	7	Y	N	N	N	Y	N	1
TP10	7309	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7310	ELM	8	Y	N	N	N	Y	N	REMOVE
TP10	7311	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7312	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7314	ELM	7	Y	N	N	N	Y	N	REMOVE
TP10	7315	ELM	8	Y	N	N	N	Y	N	REMOVE
TP10	7316	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7317	ELM	13	Y	N	N	N	Y	N	REMOVE
TP10	7318	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7319	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7320	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7321	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7322	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7323	ELM	8	Y	N	N	N	Y	N	REMOVE
TP10	7324	SAWTOOTH OAK	9	Y	N	N	N	Y	N	REMOVE
TP10	7325	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP10	7326	ELM	8	Y	N	N	N	Y	N	REMOVE
TP10	7327	ELM	8	Y	N	N	N	Y	N	1
TP10	7328	ELM	8	Y	N	N	N	Y	N	1
TP10	7329	ELM	12	Y	N	N	N	Y	N	1
TP10	7330	ELM	7	Y	N	N	N	Y	N	REMOVE
TP10	7331	CEDAR	14	Y	N	N	N	Y	N	1
TP10	7332	ELM	7	Y	N	N	N	Y	N	REMOVE
TP10	7333	ELM	7	Y	N	N	N	Y	N	REMOVE
TP10	7334	SAWTOOTH OAK	6	Y	N	N	N	Y	N	1
TP10	7335	RED OAK	6	Y	N	N	N	Y	N	REMOVE
TP10	7336	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7337	CEDAR	14	Y	N	N	N	Y	N	REMOVE
TP10	7338	ELM	6	Y	N	N	N	Y	N	REMOVE
TP10	7339	CEDAR	14	Y	N	N	N	Y	N	REMOVE
TP10	7340	ELM	6	Y	N	N	N	Y	N	1
TP10	7341	CEDAR	10	Y	N	N	N	Y	N	REMOVE
TP10	7542	ELM	9	Y	N	N	N	Y	N	1
TP10	10506	ELM	8	Y	N	N	N	Y	N	1
TP10	10522	ELM	8	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:32 AM
K:\SNA UTILITIES\06865068\CADD\PLANSHEET\TREE TREE INVENTORY 1 OF 4.DWG
1/25/2023 10:32 AM
PLOTTED BY
DWG NAME
LAST SAVED

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP10	10524	ELM	7	Y	N	N	N	Y	N	1
TP10	10526	ELM	6	Y	N	N	N	Y	N	1
TP10	10535	ELM	8	Y	N	N	N	Y	N	1
TP10	10537	ELM	9	Y	N	N	N	Y	N	1
TP10	10538	ELM	6	Y	N	N	N	Y	N	1
TP10	10545	ELM	16	Y	N	N	N	Y	N	1
TP10	25012	MESQUITE	12	Y	N	N	N	Y	N	1
TP10	25013	ELM	8	Y	N	N	N	Y	N	1
TP11	7228	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP11	7230	ASHE JUNIPER	12	Y	N	N	N	Y	N	REMOVE
TP11	7234	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP11	7235	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP11	7236	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP11	7237	ELM	6	Y	N	N	N	Y	N	1
TP11	7238	ELM	8	Y	N	N	N	Y	N	1
TP11	7239	ELM	8	Y	N	N	N	Y	N	REMOVE
TP11	7240	ELM	9	Y	N	N	N	Y	N	REMOVE
TP11	7241	ELM	9	Y	N	N	N	Y	N	REMOVE
TP11	7245	ELM	6	Y	N	N	N	Y	N	1
TP11	7246	HACKBERRY	19	Y	N	N	N	Y	N	1
TP11	7247	ASHE JUNIPER	12	Y	N	N	N	Y	N	REMOVE
TP11	7248	ELM	12	Y	N	N	N	Y	N	1
TP11	7249	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP11	7251	ELM	11	Y	N	N	N	Y	N	1
TP11	7252	ELM	10	Y	N	N	N	Y	N	1
TP11	7254	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7255	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7256	ELM	8	Y	N	N	N	Y	N	REMOVE
TP11	7257	ELM	10	Y	N	N	N	Y	N	REMOVE
TP11	7258	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7259	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7260	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7261	ELM	8	Y	N	N	N	Y	N	REMOVE
TP11	7262	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7263	ELM	13	Y	N	N	N	Y	N	REMOVE
TP11	7264	ELM	8	Y	N	N	N	Y	N	REMOVE
TP11	7265	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP11	7267	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7268	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7269	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7270	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7271	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7272	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7273	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7274	ELM	9	Y	N	N	N	Y	N	1
TP11	7276	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7277	ELM	7	Y	N	N	N	Y	N	REMOVE
TP11	7279	ELM	8	Y	N	N	N	Y	N	REMOVE
TP11	7280	ELM	11	Y	N	N	N	Y	N	1
TP11	7281	ELM	7	Y	N	N	N	Y	N	1
TP11	7284	ELM	9	Y	N	N	N	Y	N	REMOVE
TP11	7285	ELM	6	Y	N	N	N	Y	N	REMOVE
TP11	7304	RED OAK	7	Y	N	N	N	Y	N	REMOVE
TP11	25061	MESQUITE	12	Y	N	N	N	Y	N	1
TP11	25062	ELM	10	Y	N	N	N	Y	N	1
TP11	25063	ELM	8	Y	N	N	N	Y	N	1
TP11	25096	ELM	9	Y	N	N	N	Y	N	1
TP11	25097	ELM	12	Y	N	N	N	Y	N	1
TP11	25098	ELM	9	Y	N	N	N	Y	N	REMOVE
TP11	25118	ELM	10	Y	N	N	N	Y	N	1
TP11	25119	HACKBERRY	10	Y	N	N	N	Y	N	1
TP11	25120	ELM	7	Y	N	N	N	Y	N	1
TP11	25121	ELM	10	Y	N	N	N	Y	N	1
TP11	25165	HACKBERRY	14	Y	N	N	N	Y	N	1
TP11	25174	ELM	8	Y	N	N	N	Y	N	1
TP11	25180	HACKBERRY	16	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP12	7175	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7176	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP12	7177	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7178	ELM	7	Y	N	N	N	Y	N	REMOVE
TP12	7179	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7180	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7181	ELM	7	Y	N	N	N	Y	N	REMOVE
TP12	7182	ELM	6	Y	N	N	N	Y	N	1
TP12	7183	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7184	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7185	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7186	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7187	ELM	7	Y	N	N	N	Y	N	REMOVE
TP12	7188	ELM	7	Y	N	N	N	Y	N	REMOVE
TP12	7189	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7190	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7191	ELM	6	Y	N	N	N	Y	N	REMOVE
TP12	7192	MESQUITE	17	Y	N	N	N	Y	N	REMOVE
TP12	7193	ELM	7	Y	N	N	N	Y	N	REMOVE
TP12	7194	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP12	7195	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP12	7196	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP12	7197	ASHE JUNIPER	19	Y	N	N	N	Y	N	REMOVE
TP12	7198	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP12	7199	ASHE JUNIPER	14	Y	N	N	N	Y	N	REMOVE
TP12	7200	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7201	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP12	7204	ASHE JUNIPER	12	Y	N	N	N	Y	N	1
TP12	7205	ASHE JUNIPER	11	Y	N	N	N	Y	N	1
TP12	7206	ASHE JUNIPER	11	Y	N	N	N	Y	N	1
TP12	7207	ASHE JUNIPER	12	Y	N	N	N	Y	N	1
TP12	7208	ASHE JUNIPER	19	Y	N	N	N	Y	N	1
TP12	7209	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7210	ASHE JUNIPER	10	Y	N	N	N	Y	N	1
TP12	7211	ASHE JUNIPER	11	Y	N	N	N	Y	N	1
TP12	7213	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7214	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7215	ASHE JUNIPER	15	Y	N	N	N	Y	N	REMOVE
TP12	7216	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7218	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP12	7220	LIVE OAK	6	Y	N	N	N	Y	N	REMOVE
TP12	7221	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP12	7231	ASHE JUNIPER	16	Y	N	N	N	Y	N	REMOVE
TP12	7232	ELM	9	Y	N	N	N	Y	N	1
TP12	7233	ELM	7	Y	N	N	N	Y	N	1
TP12	15442	HACKBERRY	14	Y	N	N	N	Y	N	1
TP12	15443	MESQUITE	10	Y	N	N	N	Y	N	1
TP12	15444	ELM	6	Y	N	N	N	Y	N	1
TP12	15445	ELM	7	Y	N	N	N	Y	N	1
TP12	15447	ELM	7	Y	N	N	N	Y	N	1
TP12	15546	ELM	7	Y	N	N	N	Y	N	1
TP12	15548	HACKBERRY	10	Y	N	N	N	Y	N	1
TP12	25196	ELM	6	Y	N	N	N	Y	N	1
TP13	7131	ELM	6	Y	N	N	N	Y	N	REMOVE
TP13	7135	ASHE JUNIPER	12	Y	N	N	N	Y	N	1
TP13	7139	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP13	7140	ASHE JUNIPER	17	Y	N	N	N	Y	N	REMOVE
TP13	7141	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP13	7142	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP13	7143	COTTON WOOD	11	Y	N	N	N	Y	N	1
TP13	7144	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP13	7145	ELM	6	Y	N	N	N	Y	N	REMOVE
TP13	7148	COTTON WOOD	7	Y	N	N	N	Y	N	1
TP13	7149	COTTON WOOD	6	Y	N	N	N	Y	N	REMOVE
TP13	7150	ELM	7	Y	N	N	N	Y	N	REMOVE
TP13	7164	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP13	7165	ELM	8	Y	N	N	N	Y	N	REMOVE
TP13	7166	ELM	7	Y	N	N	N	Y	N	REMOVE
TP13	7167	ASHE JUNIPER	18	Y	N	N	N	Y	N	REMOVE
TP13	7168	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP13	7169	ELM	6	Y	N	N	N	Y	N	REMOVE
TP13	7170	ELM	6	Y	N	N	N	Y	N	REMOVE
TP13	7171	ASHE JUNIPER	12	Y	N	N	N	Y	N	REMOVE
TP13	7172	ELM	6	Y	N	N	N	Y	N	REMOVE
TP13	7173	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP13	7174	LIVE OAK	8	Y	N	N	N	Y	N	REMOVE
TP13	15568	ASHE JUNIPER	14	Y	N	N	N	Y	N	1
TP13	15583	HACKBERRY	11	Y	N	N	N	Y	N	1
TP13	15584	HACKBERRY	10	Y	N	N	N	Y	N	1
TP13	15585	HACKBERRY	14	Y	N	N	N	Y	N	1
TP13	15598	HACKBERRY	15	Y	N	N	N	Y	N	1
TP13	15599	ASHE JUNIPER	13	Y	N	N	N	Y	N	REMOVE
TP13	15601	ELM	6	Y	N	N	N	Y	N	1
TP13	15614	HUISACHE	11	Y	N	N	N	Y	N	1
TP13	15618	MESQUITE	11	Y	N	N	N	Y	N	1
TP13	15667	ASHE JUNIPER	11	Y	N	N	N	Y	N	1
TP13	15706	ELM	9	Y	N	N	N	Y	N	1
TP14	6742	ELM	6	Y	N	N	N	Y	N	1
TP14	6743	ELM	8	Y	N	N	N	Y	N	1
TP14	6744	ELM	6	Y	N	N	N	Y	N	1
TP14	6745	HACKBERRY	10	Y	N	N	N	Y	N	1
TP14	6746	ELM	6	Y	N	N	N	Y	N	1
TP14	6747	ELM	21	Y	N	N	N	Y	N	1
TP14	6748	PRSMN	7	Y	N	N	N	Y	N	1
TP14	6749	ELM	10	Y	N	N	N	Y	N	1
TP14	6750	ELM	11	Y	N	N	N	Y	N	1
TP14	6753	HACKBERRY	11	Y	N	N	N	Y	N	1
TP14	6754	ELM	7	Y	N	N	N	Y	N	1
TP14	6756	HACKBERRY	11	Y	N	N	N	Y	N	1
TP14	6759	ELM	6	Y	N	N	N	Y	N	1
TP14	6760	ELM	10	Y	N	N	N	Y	N	1
TP14	6770	ELM	7	Y	N	N	N	Y	N	1
TP14	7007	ELM	6	Y	N	N	N	Y	N	1
TP14	7008	ELM	14	Y	N	N	N	Y	N	1
TP14	7009	ELM	17	Y	N	N	N	Y	N	1
TP14	7010	ELM	14	Y	N	N	N	Y	N	1
TP14	7012	ELM	19	Y	N	N	N	Y	N	1
TP14	7013	ELM	12	Y	N	N	N	Y	N	1
TP14	7014	ELM	9	Y	N	N	N	Y	N	1
TP14	7015	ELM	11	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLANSHEET\TREE TREE INVENTORY 1 OF 4.DWG
1/25/2023 10:31 AM
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TREE INVENTORY										
SHEET	TAG#	SPECIES *****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP14	7016	ELM	11	Y	N	N	N	Y	N	1
TP14	7017	ELM	6	Y	N	N	N	Y	N	1
TP14	7018	ELM	13	Y	N	N	N	Y	N	1
TP14	7019	ELM	9	Y	N	N	N	Y	N	1
TP14	7020	ELM	7	Y	N	N	N	Y	N	1
TP14	7021	ELM	6	Y	N	N	N	Y	N	1
TP14	7022	ELM	7	Y	N	N	N	Y	N	1
TP14	7023	ELM	8	Y	N	N	N	Y	N	1
TP14	7024	ELM	9	Y	N	N	N	Y	N	1
TP14	7025	ELM	10	Y	N	N	N	Y	N	1
TP14	7026	ELM	8	Y	N	N	N	Y	N	1
TP14	7027	ELM	8	Y	N	N	N	Y	N	1
TP14	7028	ELM	6	Y	N	N	N	Y	N	1
TP14	7029	ELM	6	Y	N	N	N	Y	N	1
TP14	7030	ELM	9	Y	N	N	N	Y	N	1
TP14	7031	COTTON WOOD	22	Y	N	N	N	Y	N	1
TP14	7032	COTTON WOOD	20	Y	N	N	N	Y	N	1
TP14	7033	HACKBERRY	12	Y	N	N	N	Y	N	1
TP14	7034	HACKBERRY	10	Y	N	N	N	Y	N	1
TP14	7035	ELM	11	Y	N	N	N	Y	N	1
TP14	7036	ELM	9	Y	N	N	N	Y	N	1
TP14	7051	ELM	7	Y	N	N	N	Y	N	1
TP14	7052	ELM	6	Y	N	N	N	Y	N	1
TP14	7053	ELM	7	Y	N	N	N	Y	N	1
TP14	7054	ELM	8	Y	N	N	N	Y	N	1
TP14	7055	ELM	7	Y	N	N	N	Y	N	1
TP14	7056	ELM	8	Y	N	N	N	Y	N	1
TP14	7057	ELM	7	Y	N	N	N	Y	N	1
TP14	7058	ELM	8	Y	N	N	N	Y	N	1
TP14	7059	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7060	ELM	9	Y	N	N	N	Y	N	REMOVE
TP14	7061	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7062	ELM	8	Y	N	N	N	Y	N	REMOVE
TP14	7063	ELM	6	Y	N	N	N	Y	N	REMOVE
TP14	7064	ELM	8	Y	N	N	N	Y	N	REMOVE
TP14	7065	ELM	9	Y	N	N	N	Y	N	REMOVE
TP14	7066	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP14	7067	ELM	11	Y	N	N	N	Y	N	REMOVE
TP14	7068	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP14	7069	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP14	7070	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7071	ELM	17	Y	N	N	N	Y	N	REMOVE
TP14	7073	ELM	17	Y	N	N	N	Y	N	REMOVE
TP14	7074	ELM	21	Y	N	N	N	Y	N	REMOVE
TP14	7075	ELM	11	Y	N	N	N	Y	N	REMOVE
TP14	7076	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP14	7077	ELM	6	Y	N	N	N	Y	N	REMOVE
TP14	7078	ELM	6	Y	N	N	N	Y	N	REMOVE
TP14	7079	ELM	8	Y	N	N	N	Y	N	REMOVE
TP14	7080	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7081	ASHE JUNIPER	9	Y	N	N	N	Y	N	REMOVE
TP14	7082	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7083	ASHE JUNIPER	7	Y	N	N	N	Y	N	REMOVE
TP14	7084	ASHE JUNIPER	7	Y	N	N	N	Y	N	REMOVE
TP14	7085	ASHE JUNIPER	9	Y	N	N	N	Y	N	REMOVE
TP14	7086	COTTON WOOD	11	Y	N	N	N	Y	N	REMOVE
TP14	7087	ASHE JUNIPER	8	Y	N	N	N	Y	N	1
TP14	7088	COTTON WOOD	16	Y	N	N	N	Y	N	REMOVE
TP14	7089	ASHE JUNIPER	7	Y	N	N	N	Y	N	1
TP14	7090	COTTON WOOD	8	Y	N	N	N	Y	N	REMOVE
TP14	7091	COTTON WOOD	8	Y	N	N	N	Y	N	REMOVE
TP14	7092	COTTON WOOD	10	Y	N	N	N	Y	N	REMOVE
TP14	7093	COTTON WOOD	6	Y	N	N	N	Y	N	REMOVE
TP14	7094	COTTON WOOD	15	Y	N	N	N	Y	N	1
TP14	7095	ASHE JUNIPER	9	Y	N	N	N	Y	N	REMOVE
TP14	7096	OSAGE	7	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES *****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP14	7097	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP14	7098	ASHE JUNIPER	9	Y	N	N	N	Y	N	REMOVE
TP14	7099	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP14	7100	COTTON WOOD	10	Y	N	N	N	Y	N	REMOVE
TP14	7101	COTTON WOOD	10	Y	N	N	N	Y	N	REMOVE
TP14	7102	COTTON WOOD	6	Y	N	N	N	Y	N	REMOVE
TP14	7103	COTTON WOOD	10	Y	N	N	N	Y	N	REMOVE
TP14	7104	COTTON WOOD	8	Y	N	N	N	Y	N	1
TP14	7105	COTTON WOOD	11	Y	N	N	N	Y	N	REMOVE
TP14	7106	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP14	7107	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7109	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP14	7110	ASHE JUNIPER	11	Y	N	N	N	Y	N	REMOVE
TP14	7111	ELM	10	Y	N	N	N	Y	N	REMOVE
TP14	7112	COTTON WOOD	8	Y	N	N	N	Y	N	REMOVE
TP14	7113	COTTON WOOD	8	Y	N	N	N	Y	N	REMOVE
TP14	7114	COTTON WOOD	9	Y	N	N	N	Y	N	1
TP14	7115	ELM	8	Y	N	N	N	Y	N	1
TP14	7116	HUISACHE	11	Y	N	N	N	Y	N	1
TP14	7117	COTTON WOOD	13	Y	N	N	N	Y	N	REMOVE
TP14	7118	ELM	8	Y	N	N	N	Y	N	REMOVE
TP14	7120	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7121	ELM	7	Y	N	N	N	Y	N	1
TP14	7122	COTTON WOOD	12	Y	N	N	N	Y	N	1
TP14	7123	CT	7	Y	N	N	N	Y	N	1
TP14	7124	ELM	6	Y	N	N	N	Y	N	1
TP14	7125	ELM	6	Y	N	N	N	Y	N	REMOVE
TP14	7126	ELM	7	Y	N	N	N	Y	N	REMOVE
TP14	7129	COTTON WOOD	6	Y	N	N	N	Y	N	1
TP14	15705	ELM	8	Y	N	N	N	Y	N	1
TP14	15724	ELM	7	Y	N	N	N	Y	N	1
TP14	15725	ELM	6	Y	N	N	N	Y	N	1
TP14	15726	ELM	7	Y	N	N	N	Y	N	1
TP14	15727	ELM	7	Y	N	N	N	Y	N	1
TP14	15741	ELM	7	Y	N	N	N	Y	N	1
TP15	6725	COTTON WOOD	41	Y	Y	Y	N	Y	N	1
TP15	6726	HACKBERRY	18	Y	N	N	N	Y	N	1
TP15	6727	HACKBERRY	14	Y	N	N	N	Y	N	1
TP15	6728	ELM	18	Y	N	N	N	Y	N	1
TP15	6729	HACKBERRY	13	Y	N	N	N	Y	N	1
TP15	6730	ELM	10	Y	N	N	N	Y	N	1
TP15	6731	ELM	9	Y	N	N	N	Y	N	1
TP15	6732	ELM	10	Y	N	N	N	Y	N	1
TP15	6733	ELM	9	Y	N	N	N	Y	N	REMOVE
TP15	6734	MESQUITE	12	Y	N	N	N	Y	N	REMOVE
TP15	6735	ELM	10	Y	N	N	N	Y	N	1
TP15	6736	ELM	7	Y	N	N	N	Y	N	1
TP15	6737	TR	23	Y	N	N	N	Y	N	1
TP15	6738	TR	13	Y	N	N	N	Y	N	1
TP15	6739	HACKBERRY	14	Y	N	N	N	Y	N	1
TP15	6740	COTTON WOOD	20	Y	N	N	N	Y	N	1
TP15	6741	COTTON WOOD	40	Y	Y	Y	N	Y	N	1
TP15	6761	ELM	12	Y	N	N	N	Y	N	1
TP15	6762	COTTON WOOD	26	Y	Y	Y	N	Y	N	1
TP15	6770	ELM	7	Y	N	N	N	Y	N	1
TP15	6772	ELM	7	Y	N	N	N	Y	N	1
TP15	6773	ELM	9	Y	N	N	N	Y	N	1
TP15	6774	ELM	6	Y	N	N	N	Y	N	1
TP15	6775	ELM	9	Y	N	N	N	Y	N	1
TP15	6776	ELM	7	Y	N	N	N	Y	N	1
TP15	6777	ELM	8	Y	N	N	N	Y	N	1
TP15	6778	HACKBERRY	10	Y	N	N	N	Y	N	1
TP15	6781	ELM	12	Y	N	N	N	Y	N	REMOVE
TP15	6783	ELM	13	Y	N	N	N	Y	N	1
TP15	6784	ELM	8	Y	N	N	N	Y	N	1
TP15	6785	ELM	12	Y	N	N	N	Y	N	1
TP15	6786	ELM	11	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP15	6787	ELM	7	Y	N	N	N	Y	N	1
TP15	6788	ELM	6	Y	N	N	N	Y	N	1
TP15	6789	ELM	10	Y	N	N	N	Y	N	1
TP15	6790	COTTON WOOD	17	Y	N	N	N	Y	N	1
TP15	6791	ELM	8	Y	N	N	N	Y	N	1
TP15	6792	ELM	8	Y	N	N	N	Y	N	1
TP15	6793	ELM	9	Y	N	N	N	Y	N	1
TP15	6794	ELM	10	Y	N	N	N	Y	N	1
TP15	6795	ELM	6	Y	N	N	N	Y	N	1
TP15	6796	ELM	10	Y	N	N	N	Y	N	1
TP15	6797	ELM	10	Y	N	N	N	Y	N	1
TP15	6798	COTTON WOOD	21	Y	N	N	N	Y	N	1
TP15	6799	ELM	6	Y	N	N	N	Y	N	1
TP15	6800	ELM	8	Y	N	N	N	Y	N	1
TP15	6801	ELM	13	Y	N	N	N	Y	N	1
TP15	6802	ELM	7	Y	N	N	N	Y	N	1
TP15	6803	ELM	9	Y	N	N	N	Y	N	REMOVE
TP15	6804	ELM	11	Y	N	N	N	Y	N	REMOVE
TP15	6805	ELM	9	Y	N	N	N	Y	N	REMOVE
TP15	6806	ELM	8	Y	N	N	N	Y	N	REMOVE
TP15	6807	ELM	6	Y	N	N	N	Y	N	REMOVE
TP15	6808	ELM	8	Y	N	N	N	Y	N	REMOVE
TP15	6809	ELM	6	Y	N	N	N	Y	N	REMOVE
TP15	6813	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP15	6814	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP15	6815	ELM	8	Y	N	N	N	Y	N	REMOVE
TP15	6816	ELM	13	Y	N	N	N	Y	N	REMOVE
TP15	6817	ELM	7	Y	N	N	N	Y	N	1
TP15	6818	ELM	8	Y	N	N	N	Y	N	1
TP15	6819	ELM	8	Y	N	N	N	Y	N	1
TP15	6820	ELM	8	Y	N	N	N	Y	N	1
TP15	6821	ELM	8	Y	N	N	N	Y	N	1
TP15	6822	ELM	9	Y	N	N	N	Y	N	1
TP15	6823	ELM	7	Y	N	N	N	Y	N	1
TP15	6824	ELM	12	Y	N	N	N	Y	N	1
TP15	6825	ELM	8	Y	N	N	N	Y	N	1
TP15	6826	ELM	8	Y	N	N	N	Y	N	1
TP15	6827	COTTON WOOD	16	Y	N	N	N	Y	N	REMOVE
TP15	6828	HACKBERRY	15	Y	N	N	N	Y	N	REMOVE
TP15	6829	ELM	6	Y	N	N	N	Y	N	1
TP15	6830	ELM	8	Y	N	N	N	Y	N	1
TP15	6831	ELM	11	Y	N	N	N	Y	N	1
TP15	6832	ELM	11	Y	N	N	N	Y	N	1
TP15	6833	COTTON WOOD	20	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLANSHEET\TREE TREE INVENTORY 1 OF 4DWO
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TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP15	6834	HACKBERRY	20	Y	N	N	N	Y	N	1
TP15	6835	HACKBERRY	10	Y	N	N	N	Y	N	1
TP15	6836	ELM	9	Y	N	N	N	Y	N	1
TP15	6837	HACKBERRY	11	Y	N	N	N	Y	N	1
TP15	6838	HACKBERRY	10	Y	N	N	N	Y	N	1
TP15	6839	ELM	10	Y	N	N	N	Y	N	REMOVE
TP15	6840	COTTON WOOD	16	Y	N	N	N	Y	N	REMOVE
TP15	6841	ELM	8	Y	N	N	N	Y	N	1
TP15	6842	COTTON WOOD	24	Y	Y	Y	N	Y	N	1
TP15	6843	HACKBERRY	19	Y	N	N	N	Y	N	1
TP15	6844	HACKBERRY	13	Y	N	N	N	Y	N	1
TP15	6845	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP15	6846	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP15	6847	COTTON WOOD	21	Y	N	N	N	Y	N	REMOVE
TP15	6848	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP15	6849	ELM	7	Y	N	N	N	Y	N	1
TP15	6850	COTTON WOOD	16	Y	N	N	N	Y	N	1
TP15	6851	HACKBERRY	10	Y	N	N	N	Y	N	1
TP15	6852	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP15	6853	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP15	6854	COTTON WOOD	20	Y	N	N	N	Y	N	REMOVE
TP15	6855	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP15	6856	ELM	9	Y	N	N	N	Y	N	REMOVE
TP15	6857	MESQUITE	10	Y	N	N	N	Y	N	REMOVE
TP15	6858	COTTON WOOD	25	Y	Y	Y	N	Y	N	1
TP15	6859	ELM	7	Y	N	N	N	Y	N	REMOVE
TP15	6860	COTTON WOOD	23	Y	N	N	N	Y	N	REMOVE
TP15	6861	COTTON WOOD	22	Y	N	N	N	Y	N	REMOVE
TP15	6862	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP15	6863	HACKBERRY	15	Y	N	N	N	Y	N	REMOVE
TP15	6864	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP15	6865	COTTON WOOD	17	Y	N	N	N	Y	N	1
TP15	6866	ELM	11	Y	N	N	N	Y	N	1
TP15	6867	COTTON WOOD	25	Y	Y	Y	N	Y	N	1
TP15	6868	ELM	7	Y	N	N	N	Y	N	1
TP15	6869	ELM	6	Y	N	N	N	Y	N	1
TP15	6870	ELM	13	Y	N	N	N	Y	N	1
TP15	6871	ELM	8	Y	N	N	N	Y	N	1
TP15	6872	ELM	8	Y	N	N	N	Y	N	1
TP15	6873	ELM	12	Y	N	N	N	Y	N	1
TP15	6874	ELM	12	Y	N	N	N	Y	N	1
TP15	6875	ELM	11	Y	N	N	N	Y	N	1
TP15	6876	ELM	10	Y	N	N	N	Y	N	1
TP15	6877	ELM	6	Y	N	N	N	Y	N	1
TP15	6878	ELM	6	Y	N	N	N	Y	N	1
TP15	6879	ELM	8	Y	N	N	N	Y	N	1
TP15	6880	ELM	9	Y	N	N	N	Y	N	1
TP15	6881	ELM	7	Y	N	N	N	Y	N	1
TP15	6883	ELM	11	Y	N	N	N	Y	N	1
TP15	6884	ELM	6	Y	N	N	N	Y	N	1
TP15	6885	ELM	6	Y	N	N	N	Y	N	1
TP15	6886	ELM	9	Y	N	N	N	Y	N	1
TP15	6887	ELM	9	Y	N	N	N	Y	N	1
TP15	6888	ELM	7	Y	N	N	N	Y	N	1
TP15	6889	COTTON WOOD	15	Y	N	N	N	Y	N	1
TP15	6890	HACKBERRY	11	Y	N	N	N	Y	N	1
TP15	6891	COTTON WOOD	25	Y	Y	Y	N	Y	N	1
TP15	6892	ELM	10	Y	N	N	N	Y	N	1
TP15	6893	ELM	10	Y	N	N	N	Y	N	1
TP15	6894	ELM	8	Y	N	N	N	Y	N	1
TP15	6895	ELM	8	Y	N	N	N	Y	N	1
TP15	6896	ELM	6	Y	N	N	N	Y	N	1
TP15	6897	ELM	7	Y	N	N	N	Y	N	1
TP15	6898	ELM	24	Y	Y	Y	N	Y	N	1
TP15	6899	ELM	8	Y	N	N	N	Y	N	1
TP15	6900	COTTON WOOD	9	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP15	15024	HUISACHE	10	Y	N	N	N	Y	N	1
TP15	15023	HUISACHE	16	Y	N	N	N	Y	N	1
TP15	7006	ELM	7	Y	N	N	N	Y	N	1
TP15	7005	ELM	9	Y	N	N	N	Y	N	1
TP15	6998	COTTON WOOD	19	Y	N	N	N	Y	N	1
TP15	6997	HACKBERRY	14	Y	N	N	N	Y	N	1
TP15	6944	ELM	8	Y	N	N	N	Y	N	1
TP15	6943	ELM	6	Y	N	N	N	Y	N	1
TP15	6942	ELM	9	Y	N	N	N	Y	N	1
TP15	6941	ELM	9	Y	N	N	N	Y	N	1
TP15	6940	ELM	11	Y	N	N	N	Y	N	1
TP15	6909	ELM	19	Y	N	N	N	Y	N	1
TP15	6908	ELM	12	Y	N	N	N	Y	N	1
TP15	6907	ELM	7	Y	N	N	N	Y	N	REMOVE
TP15	6906	ELM	6	Y	N	N	N	Y	N	REMOVE
TP15	6905	ELM	6	Y	N	N	N	Y	N	REMOVE
TP15	6904	ELM	7	Y	N	N	N	Y	N	REMOVE
TP15	6903	ELM	10	Y	N	N	N	Y	N	REMOVE
TP15	6902	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP15	6901	COTTON WOOD	18	Y	N	N	N	Y	N	REMOVE
TP16	6698	ELM	7	Y	N	N	N	Y	N	1
TP16	6697	HACKBERRY	10	Y	N	N	N	Y	N	1
TP16	6696	MESQUITE	11	Y	N	N	N	Y	N	1
TP16	6691	HACK	14	Y	N	N	N	Y	N	1
TP16	6690	ELM-TWIN	13	Y	N	N	N	Y	N	1
TP16	6689	HACK-TWIN	11	Y	N	N	N	Y	N	1
TP16	6688	ELM	11	Y	N	N	N	Y	N	1
TP16	6687	ELM	12	Y	N	N	N	Y	N	1
TP16	6686	ELM	15	Y	N	N	N	Y	N	1
TP16	6685	ELM	11	Y	N	N	N	Y	N	1
TP16	6684	HACKBERRY	14	Y	N	N	N	Y	N	1
TP16	6683	HACKBERRY	18	Y	N	N	N	Y	N	1
TP16	6682	HACKBERRY	17	Y	N	N	N	Y	N	1
TP16	6681	ELM	16	Y	N	N	N	Y	N	1
TP16	6680	ELM	12	Y	N	N	N	Y	N	1
TP16	6679	ELM	15	Y	N	N	N	Y	N	1
TP16	6678	ELM	6	Y	N	N	N	Y	N	1
TP16	6677	ELM	6	Y	N	N	N	Y	N	1
TP16	6676	ELM	11	Y	N	N	N	Y	N	1
TP16	6675	ELM	9	Y	N	N	N	Y	N	1
TP16	6674	LO	11	Y	N	N	N	Y	N	1
TP16	6673	ELM	11	Y	N	N	N	Y	N	1
TP16	6672	LO	56	Y	Y	Y	N	Y	N	1
TP16	6671	LO	27	Y	Y	Y	N	Y	N	1
TP16	6670	LO	11	Y	N	N	N	Y	N	1
TP16	6669	LO	13	Y	N	N	N	Y	N	1
TP16	6668	ELM	14	Y	N	N	N	Y	N	1
TP16	6667	ELM	14	Y	N	N	N	Y	N	1
TP16	6666	ELM	6	Y	N	N	N	Y	N	1
TP16	6665	ELM	10	Y	N	N	N	Y	N	1
TP16	6662	ELM	7	Y	N	N	N	Y	N	1
TP16	6658	ELM	16	Y	N	N	N	Y	N	1
TP16	6657	TR	12	Y	N	N	N	Y	N	1
TP16	6656	ELM	9	Y	N	N	N	Y	N	1
TP16	6655	ELM	16	Y	N	N	N	Y	N	1
TP16	6654	ELM	12	Y	N	N	N	Y	N	1
TP16	6653	HACKBERRY	16	Y	N	N	N	Y	N	1
TP16	6439	HUISACHE	10	Y	N	N	N	Y	N	1
TP16	6438	MESQUITE	13	Y	N	N	N	Y	N	1
TP16	6437	MESQUITE	11	Y	N	N	N	Y	N	1
TP16	6436	TR	11	Y	N	N	N	Y	N	1
TP16	6435	ELM	6	Y	N	N	N	Y	N	1
TP16	6434	COTTON WOOD	20	Y	N	N	N	Y	N	1
TP16	6433	COTTON WOOD	22	Y	N	N	N	Y	N	1
TP16	6432	HACKBERRY	12	Y	N	N	N	Y	N	1
TP16	6430	HACKBERRY	11	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP16	6429	COTTON WOOD	17	Y	N	N	N	Y	N	1
TP16	6428	COTTON WOOD	16	Y	N	N	N	Y	N	1
TP16	6427	COTTON WOOD	24	Y	Y	Y	N	Y	N	1
TP16	6424	COTTON WOOD	18	Y	N	N	N	Y	N	1
TP16	6699	HACKBERRY	23	Y	N	N	N	Y	N	1
TP16	6660	ELM	6	Y	N	N	N	Y	N	1
TP16	6659	ELM	21	Y	N	N	N	Y	N	1
TP16	6663	HACKBERRY	15	Y	N	N	N	Y	N	1
TP16	6664	HACKBERRY	18	Y	N	N	N	Y	N	1
TP16	6700	HUISACHE	12	Y	N	N	N	Y	N	1
TP16	6701	HACKBERRY	14	Y	N	N	N	Y	N	1
TP16	6703	HACKBERRY	10	Y	N	N	N	Y	N	1
TP16	6704	HACKBERRY	13	Y	N	N	N	Y	N	1
TP16	6705	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	6706	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	6707	HACKBERRY	10	Y	N	N	N	Y	N	1
TP16	6708	HACKBERRY	10	Y	N	N	N	Y	N	1
TP16	6709	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	6710	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	6711	HACKBERRY	20	Y	N	N	N	Y	N	1
TP16	6712	HUISACHE	13	Y	N	N	N	Y	N	REMOVE
TP16	6713	ELM	7	Y	N	N	N	Y	N	1
TP16	6714	HACKBERRY	16	Y	N	N	N	Y	N	REMOVE
TP16	6715	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP16	6716	ELM	15	Y	N	N	N	Y	N	REMOVE
TP16	6717	HACKBERRY	13	Y	N	N	N	Y	N	1
TP16	6718	HACKBERRY	13	Y	N	N	N	Y	N	1
TP16	6719	HACKBERRY	14	Y	N	N	N	Y	N	1
TP16	6720	HACKBERRY	14	Y	N	N	N	Y	N	1
TP16	6721	COTTON WOOD	30	Y	Y	Y	N	Y	N	1
TP16	6722	COTTON WOOD	15	Y	N	N	N	Y	N	1
TP16	6723	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	6724	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	15025	ELM	6	Y	N	N	N	Y	N	REMOVE
TP16	15027	COTTONWOOD	11	Y	N	N	N	Y	N	REMOVE
TP16	15028	COTTONWOOD	12	Y	N	N	N	Y	N	REMOVE
TP16	15029	COTTONWOOD	11	Y	N	N	N	Y	N	REMOVE
TP16	15030	HACKBERRY	13	Y	N	N	N	Y	N	1
TP16	15031	MESQUITE	11	Y	N	N	N	Y	N	1
TP16	15032	HACKBERRY	11	Y	N	N	N	Y	N	1
TP16	15033	HACKBERRY	13	Y	N	N	N	Y	N	1
TP16	15034	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP16A	15035	MESQUITE	10	Y	N	N	N	N	Y	1
TP16A	15036	MESQUITE	10	Y	N	N	N	N	Y	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLAN SHEET\TREE TREE INVENTORY 1 OF 4.DWG
1/25/2023 10:31 AM
PLOTTED BY
DWG NAME
LAST SAVED

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP17	30421	WILLOW	10	Y	N	N	N	Y	N	1
TP17	30422	COTTON WOOD	17	Y	N	N	N	Y	N	1
TP17	30423	WILLOW	17	Y	N	N	N	Y	N	1
TP18	15010	MESQUITE	12	Y	N	N	N	N	N	1
TP18	15016	HACKBERRY	12	Y	N	N	N	N	N	1
TP18	15020	HACKBERRY	18	Y	N	N	N	N	N	1
TP18	17205	MESQUITE	10	Y	N	N	N	N	N	1
TP18	17207	HACKBERRY	10	Y	N	N	N	N	N	1
TP18	17315	HACKBERRY	10	Y	N	N	N	N	N	1
TP18	17330	HACKBERRY	14	Y	N	N	N	N	Y	1
TP18	17331	HACKBERRY	12	Y	N	N	N	N	Y	1
TP19	5892	ELM	2	N	N	N	N	Y	N	1
TP19	5893	HACKBERRY	13	Y	N	N	N	Y	N	1
TP19	5894	ELM	17	Y	N	N	N	Y	N	1
TP19	5895	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5896	LIVE OAK	26	Y	Y	Y	N	Y	N	1
TP19	5897	ELM	8	Y	N	N	N	Y	N	1
TP19	5898	ELM	6	Y	N	N	N	Y	N	1
TP19	5903	LIVE OAK	22	Y	N	N	N	Y	N	1
TP19	5904	ELM	17	Y	N	N	N	Y	N	1
TP19	5905	ELM	13	Y	N	N	N	Y	N	1
TP19	5906	ELM	7	Y	N	N	N	Y	N	1
TP19	5907	ELM	6	Y	N	N	N	Y	N	1
TP19	5908	ELM	8	Y	N	N	N	Y	N	1
TP19	5909	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5910	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5911	ELM	12	Y	N	N	N	Y	N	1
TP19	5913	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5914	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5915	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5916	HACKBERRY	11	Y	N	N	N	N	Y	1
TP19	5922	ELM	7	Y	N	N	N	Y	N	1
TP19	5924	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	5926	ELM	6	Y	N	N	N	Y	N	1
TP19	5927	ELM	7	Y	N	N	N	Y	N	1
TP19	5930	HACKBERRY	10	Y	N	N	N	N	Y	1
TP19	5932	ELM	8	Y	N	N	N	Y	N	1
TP19	5933	ELM	8	Y	N	N	N	Y	N	1
TP19	5936	ELM	7	Y	N	N	N	Y	N	1
TP19	5937	ELM	8	Y	N	N	N	Y	N	1
TP19	5938	HACKBERRY	15	Y	N	N	N	Y	N	1
TP19	5939	ELM	9	Y	N	N	N	Y	N	1
TP19	5940	TR	9	Y	N	N	N	Y	N	1
TP19	5941	LIVE OAK	28	Y	Y	Y	N	Y	N	1
TP19	5943	HACKBERRY	12	Y	N	N	N	Y	N	1
TP19	5944	ELM	12	Y	N	N	N	Y	N	1
TP19	5945	LIVE OAK	48	Y	Y	Y	N	Y	N	1
TP19	5946	ELM	13	Y	N	N	N	Y	N	1
TP19	5947	ELM	11	Y	N	N	N	Y	N	1
TP19	5948	ELM	13	Y	N	N	N	Y	N	1
TP19	5993	HACKBERRY	13	Y	N	N	N	Y	N	1
TP19	5995	ELM	13	Y	N	N	N	Y	N	1
TP19	6003	ELM	9	Y	N	N	N	Y	N	1
TP19	6004	ELM	11	Y	N	N	N	Y	N	1
TP19	6007	ELM	12	Y	N	N	N	Y	N	1
TP19	6008	ELM	10	Y	N	N	N	Y	N	1
TP19	6009	ELM	9	Y	N	N	N	Y	N	1
TP19	6012	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19	13888	HACKBERRY	11	Y	N	N	N	Y	N	1
TP19	14331	ELM	15	Y	N	N	N	Y	N	1
TP19	14332	ELM	17	Y	N	N	N	Y	N	1
TP19	14333	ELM	15	Y	N	N	N	Y	N	1
TP19	14334	HACKBERRY	16	Y	N	N	N	Y	N	1
TP19	14335	ELM	13	Y	N	N	N	Y	N	1
TP19	14336	ELM	13	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP19	14337	HACKBERRY	11	Y	N	N	N	Y	N	1
TP19	14338	ELM	7	Y	N	N	N	Y	N	1
TP19	14339	HACKBERRY	11	Y	N	N	N	Y	N	1
TP19	14349	ELM	6	Y	N	N	N	Y	N	1
TP19	14351	ELM	7	Y	N	N	N	Y	N	1
TP19	14362	ELM	8	Y	N	N	N	Y	N	1
TP19	14363	ELM	7	Y	N	N	N	Y	N	1
TP19	14364	ELM	6	Y	N	N	N	Y	N	1
TP19	14365	ELM	8	Y	N	N	N	Y	N	1
TP19	14366	ELM	6	Y	N	N	N	Y	N	1
TP19	14367	ELM	6	Y	N	N	N	Y	N	1
TP19	14368	ELM	8	Y	N	N	N	Y	N	1
TP19	14369	ELM	6	Y	N	N	N	Y	N	1
TP19	15003	HACKBERRY	11	Y	N	N	N	N	Y	1
TP19	15004	HACKBERRY	17	Y	N	N	N	N	Y	1
TP19	15005	MESQUITE	12	Y	N	N	N	N	N	1
TP19	15006	HACKBERRY	12	Y	N	N	N	N	N	1
TP19	15008	ELM	11	Y	N	N	N	N	Y	1
TP19	17039	HACKBERRY	13	Y	N	N	N	N	Y	1
TP19	17142	HACKBERRY	10	Y	N	N	N	N	N	1
TP19	20154	ELM	6	Y	N	N	N	Y	N	1
TP19	20155	ELM	7	Y	N	N	N	Y	N	1
TP19	20156	ELM	7	Y	N	N	N	Y	N	1
TP19	20157	ELM	9	Y	N	N	N	Y	N	1
TP19	20158	ELM	6	Y	N	N	N	Y	N	1
TP19	20159	ELM	15	Y	N	N	N	Y	N	1
TP19	20160	ELM	6	Y	N	N	N	Y	N	1
TP19	20161	ELM	6	Y	N	N	N	Y	N	REMOVE
TP19	20162	ELM	6	Y	N	N	N	Y	N	REMOVE
TP19	20163	ELM	11	Y	N	N	N	Y	N	1
TP19	20164	ELM	10	Y	N	N	N	Y	N	1
TP19	20165	ELM	6	Y	N	N	N	Y	N	1
TP19	20166	ELM	7	Y	N	N	N	Y	N	1
TP19	20167	ELM	9	Y	N	N	N	Y	N	1
TP19	20168	ELM	9	Y	N	N	N	Y	N	REMOVE
TP19	20169	ELM	7	Y	N	N	N	Y	N	REMOVE
TP19	20170	ELM	6	Y	N	N	N	Y	N	REMOVE
TP19	20171	ELM	6	Y	N	N	N	Y	N	REMOVE
TP19	20172	ELM	9	Y	N	N	N	Y	N	REMOVE
TP19	20173	ELM	7	Y	N	N	N	Y	N	REMOVE
TP19	20174	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP19	20175	ELM	10	Y	N	N	N	Y	N	1
TP19	20178	HACKBERRY	18	Y	N	N	N	Y	N	1
TP19	20179	HACKBERRY	12	Y	N	N	N	Y	N	1
TP19	20182	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP19A	5925	ELM	6	Y	N	N	N	Y	N	1
TP19A	6078	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19A	6080	COTTON WOOD	15	Y	N	N	N	Y	N	1
TP19A	6081	COTTON WOOD	14	Y	N	N	N	Y	N	1
TP19A	6082	COTTON WOOD	8	Y	N	N	N	Y	N	1
TP19A	6083	COTTON WOOD	14	Y	N	N	N	Y	N	1
TP19A	6084	COTTON WOOD	14	Y	N	N	N	Y	N	1
TP19A	6085	COTTON WOOD	9	Y	N	N	N	Y	N	1
TP19A	6086	COTTON WOOD	19	Y	N	N	N	Y	N	1
TP19A	6087	COTTON WOOD	21	Y	N	N	N	Y	N	1
TP19A	6088	HACKBERRY	11	Y	N	N	N	Y	N	1
TP19A	6089	ELM	14	Y	N	N	N	Y	N	1
TP19A	6090	TR	8	Y	N	N	N	Y	N	1
TP19A	6091	HACKBERRY	14	Y	N	N	N	Y	N	1
TP19A	6092	COTTON WOOD	22	Y	N	N	N	Y	N	1
TP19A	6093	HACKBERRY	11	Y	N	N	N	Y	N	1
TP19A	6104	ELM	10	Y	N	N	N	Y	N	1
TP19A	6105	ELM	6	Y	N	N	N	Y	N	1
TP19A	6106	ELM	7	Y	N	N	N	Y	N	1
TP19A	6108	ELM	7	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP19A	5912	ELM	13	Y	N	N	N	Y	N	1
TP19A	5989	LO	13	Y	N	N	N	Y	N	1
TP19A	5990	LO	18	Y	N	N	N	Y	N	1
TP19A	5991	LO	28	Y	Y	Y	N	Y	N	1
TP19A	5992	ELM	14	Y	N	N	N	Y	N	1
TP19A	5998	ELM	9	Y	N	N	N	Y	N	1
TP19A	5999	ELM	10	Y	N	N	N	Y	N	1
TP19A	6000	ELM	12	Y	N	N	N	Y	N	1
TP19A	6001	HACKBERRY	16	Y	N	N	N	Y	N	1
TP19A	6002	HACKBERRY	10	Y	N	N	N	Y	N	1
TP19A	6013	ELM	6	Y	N	N	N	Y	N	1
TP19A	6022	MESQUITE	15	Y	N	N	N	Y	N	1
TP19A	6109	ELM	10	Y	N	N	N	Y	N	1
TP19A	6110	ELM	7	Y	N	N	N	Y	N	1
TP19A	6111	LO	12	Y	N	N	N	Y	N	1
TP19A	6112	LO	12	Y	N	N	N	Y	N	1
TP19A	6113	LO	10	Y	N	N	N	Y	N	1
TP19A	6114	ELM	11	Y	N	N	N	Y	N	1
TP19A	6115	TR	10	Y	N	N	N	Y	N	1
TP19A	6116	LO	11	Y	N	N	N	Y	N	1
TP19A	6117	HACKBERRY	12	Y	N	N	N	Y	N	1
TP19A	6118	ELM	8	Y	N	N	N	Y	N	1
TP19A	6119	LO	11	Y	N	N	N	Y	N	1
TP19A	6120	SO	20	Y	N	N	N	Y	N	1
TP19A	6121	ELM	7	Y	N	N	N	Y	N	1
TP19A	6123	ELM	11	Y	N	N	N	Y	N	1
TP20	20136	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP20	20143	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20144	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20145	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20146	HUISACHE	10	Y	N	N	N	Y	N	REMOVE
TP20	20147	ELM	12	Y	N	N	N	Y	N	REMOVE
TP20	20148	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20149	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20150	LIVE OAK	20	Y	N	N	N	Y	N	REMOVE
TP20	20151	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20152	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20180	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20181	ELM	13	Y	N	N	N	Y	N	REMOVE
TP20	20183	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20184	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP20	20185	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20186	ELM	9	Y	N	N	N	Y	N	REMOVE
TP20	20187	ELM	9	Y	N	N	N	Y	N	1
TP20	20188	HACKBERRY	11	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP20	20189	ELM	8	Y	N	N	N	Y	N	1
TP20	20190	LIVE OAK	35	Y	Y	Y	N	Y	N	1
TP20	20191	LIVE OAK	32	Y	Y	Y	N	Y	N	1
TP20	20192	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP20	20193	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP20	20194	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP20	20195	ELM	12	Y	N	N	N	Y	N	REMOVE
TP20	20196	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP20	20197	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20198	ELM	9	Y	N	N	N	Y	N	REMOVE
TP20	20199	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20200	ELM	14	Y	N	N	N	Y	N	REMOVE
TP20	20201	ELM	12	Y	N	N	N	Y	N	REMOVE
TP20	20202	ELM	14	Y	N	N	N	Y	N	REMOVE
TP20	20203	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP20	20204	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20205	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20206	ELM	13	Y	N	N	N	Y	N	REMOVE
TP20	20207	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP20	20208	LIVE OAK	49	Y	Y	Y	N	Y	N	1
TP20	20209	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP20	20210	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20211	ELM	10	Y	N	N	N	Y	N	REMOVE
TP20	20212	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20213	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20214	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP20	20215	ELM	11	Y	N	N	N	Y	N	1
TP20	20216	ELM	7	Y	N	N	N	Y	N	1
TP20	20217	ELM	11	Y	N	N	N	Y	N	REMOVE
TP20	20218	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20219	ELM	9	Y	N	N	N	Y	N	REMOVE
TP20	20220	ELM	10	Y	N	N	N	Y	N	REMOVE
TP20	20221	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP20	20222	ELM	10	Y	N	N	N	Y	N	REMOVE
TP20	20223	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20224	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20225	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20226	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20227	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20228	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20229	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20230	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20231	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20232	ELM	10	Y	N	N	N	Y	N	REMOVE
TP20	20233	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20234	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20235	ELM	9	Y	N	N	N	Y	N	REMOVE
TP20	20236	HACKBERRY	15	Y	N	N	N	Y	N	REMOVE
TP20	20237	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20238	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20239	ELM	6	Y	N	N	N	Y	N	1
TP20	20240	ELM	7	Y	N	N	N	Y	N	1
TP20	20241	ELM	6	Y	N	N	N	Y	N	1
TP20	20242	ELM	6	Y	N	N	N	Y	N	1
TP20	20243	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20244	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20245	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20246	ELM	6	Y	N	N	N	Y	N	1
TP20	20247	ELM	6	Y	N	N	N	Y	N	1
TP20	20248	ELM	6	Y	N	N	N	Y	N	1
TP20	20249	HACKBERRY	11	Y	N	N	N	Y	N	1
TP20	20250	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20251	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20252	ELM	6	Y	N	N	N	Y	N	REMOVE
TP20	20253	ELM	8	Y	N	N	N	Y	N	REMOVE
TP20	20254	ELM	7	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP20	20255	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20256	ELM	7	Y	N	N	N	Y	N	REMOVE
TP20	20257	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP21	20117	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP21	20118	ELM	10	Y	N	N	N	Y	N	REMOVE
TP21	20119	ELM	8	Y	N	N	N	Y	N	REMOVE
TP21	20120	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20121	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20122	HACKBERRY	15	Y	N	N	N	Y	N	1
TP21	20123	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20124	ELM	7	Y	N	N	N	Y	N	REMOVE
TP21	20125	ELM	8	Y	N	N	N	Y	N	REMOVE
TP21	20126	ELM	6	Y	N	N	N	Y	N	1
TP21	20127	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20128	ELM	7	Y	N	N	N	Y	N	REMOVE
TP21	20129	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20130	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20131	HACKBERRY	15	Y	N	N	N	Y	N	REMOVE
TP21	20132	ELM	16	Y	N	N	N	Y	N	REMOVE
TP21	20133	ELM	8	Y	N	N	N	Y	N	1
TP21	20134	ELM	6	Y	N	N	N	Y	N	1
TP21	20135	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20137	ELM	10	Y	N	N	N	Y	N	REMOVE
TP21	20138	ELM	7	Y	N	N	N	Y	N	REMOVE
TP21	20139	ELM	7	Y	N	N	N	Y	N	REMOVE
TP21	20140	ELM	6	Y	N	N	N	Y	N	REMOVE
TP21	20141	ELM	7	Y	N	N	N	Y	N	REMOVE
TP21	20142	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP22	14852	ELM	6	Y	N	N	N	Y	N	REMOVE
TP22	14858	ELM	10	Y	N	N	N	Y	N	1
TP22	14859	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP22	20108	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP22	20109	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP22	20110	ASHE JUNIPER	10	Y	N	N	N	Y	N	REMOVE
TP22	20111	ELM	17	Y	N	N	N	Y	N	1
TP22	20112	ASHE JUNIPER	13	Y	N	N	N	Y	N	1
TP22	20113	ASHE JUNIPER	12	Y	N	N	N	Y	N	1
TP22	20114	WILLIVE OAKW	13	Y	N	N	N	Y	N	1
TP22	20115	COTTONWOOD	12	Y	N	N	N	Y	N	1
TP22	20116	WILLIVE OAKW	10	Y	N	N	N	Y	N	REMOVE
TP22A	12764	ELM	6	Y	N	N	N	Y	N	1
TP22A	12952	HUISACHE	15	Y	N	N	N	Y	N	1
TP22A	12961	HACKBERRY	25	Y	Y	Y	N	Y	N	1
TP22A	16630	ELM	6	Y	N	N	N	Y	N	1
TP22A	16631	ELM	13	Y	N	N	N	Y	N	1
TP22A	16632	ELM	10	Y	N	N	N	Y	N	1
TP22A	16633	ELM	8	Y	N	N	N	Y	N	REMOVE
TP22A	16634	ELM	9	Y	N	N	N	Y	N	REMOVE
TP22A	16635	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP22A	16636	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP22A	16637	ELM	10	Y	N	N	N	Y	N	REMOVE
TP22A	16640	ELM	7	Y	N	N	N	Y	N	1
TP22A	16641	ELM	7	Y	N	N	N	Y	N	1
TP22A	16642	ELM	18	Y	N	N	N	Y	N	1
TP22A	16705	ELM	6	Y	N	N	N	Y	N	1
TP22A	16707	ELM	7	Y	N	N	N	Y	N	1
TP22A	16719	ELM	8	Y	N	N	N	Y	N	1
TP22A	16726	ELM	6	Y	N	N	N	Y	N	1
TP22A	16727	ELM	6	Y	N	N	N	Y	N	1
TP22A	16728	ELM	6	Y	N	N	N	Y	N	1
TP22A	16729	ELM	8	Y	N	N	N	Y	N	1
TP22A	16730	ELM	6	Y	N	N	N	Y	N	1
TP22A	16731	ELM	6	Y	N	N	N	Y	N	1
TP22A	16732	ELM	6	Y	N	N	N	Y	N	1
TP22A	16735	ELM	8	Y	N	N	N	Y	N	1
TP22A	16736	ELM	7	Y	N	N	N	Y	N	1
TP22A	16737	ELM	10	Y	N	N	N	Y	N	1
TP22A	16738	ELM	6	Y	N	N	N	Y	N	1
TP22A	16739	ELM	6	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP23	12503	HACKBERRY	13	Y	N	N	N	Y	N	1
TP23	12687	ELM	18	Y	N	N	N	Y	N	1
TP23	12688	ELM	10	Y	N	N	N	Y	N	1
TP23	12693	HACKBERRY	16	Y	N	N	N	Y	N	REMOVE
TP23	12705	ELM	9	Y	N	N	N	Y	N	REMOVE
TP23	12709	ELM	9	Y	N	N	N	Y	N	REMOVE
TP23	12710	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP23	12711	ELM	7	Y	N	N	N	Y	N	REMOVE
TP23	12745	HACKBERRY	13	Y	N	N	N	Y	N	1
TP23	12747	HACKBERRY	11	Y	N	N	N	Y	N	1
TP23	12750	ELM	8	Y	N	N	N	Y	N	1
TP23	12753	ELM	7	Y	N	N	N	Y	N	1
TP23	12756	ELM	6	Y	N	N	N	Y	N	1
TP23	12759	ELM	7	Y	N	N	N	Y	N	1
TP23	12762	ELM	6	Y	N	N	N	Y	N	1
TP23A	12289	ELM	18	Y	N	N	N	Y	N	1
TP23A	12302	ELM	13	Y	N	N	N	Y	N	1
TP23A	12303	ELM	11	Y	N	N	N	Y	N	1
TP23A	12304	ELM	17	Y	N	N	N	Y	N	1
TP23A	12317	ELM	18	Y	N	N	N	Y	N	1
TP23A	12318	ELM	14	Y	N	N	N	Y	N	1
TP23A	12341	ELM	18	Y	N	N	N	Y	N	1
TP23A	12346	ELM	13	Y	N	N	N	Y	N	1
TP23A	12347	LIVE OAK	10	Y	N	N	N	Y	N	1
TP23A	12351	ELM	6	Y	N	N	N	Y	N	1
TP23A	12360	ELM	6	Y	N	N	N	Y	N	REMOVE
TP23A	12361	ELM	6	Y	N	N	N	Y	N	REMOVE
TP23A	12366	ELM	12	Y	N	N	N	Y	N	1
TP23A	12367	ELM	7	Y	N	N	N	Y	N	1
TP23A	12374	HACKBERRY	14	Y	N	N	N	Y	N	1
TP23A	12375	LIVE OAK	9	Y	N	N	N	Y	N	1
TP23A	12378	ELM	11	Y	N	N	N	Y	N	1
TP23A	12387	HACKBERRY	12	Y	N	N	N	Y	N	1
TP23A	12388	ELM	19	Y	N	N	N	Y	N	1
TP23A	12394	ELM	9	Y	N	N	N	Y	N	REMOVE
TP23A	12395	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP23A	12398	ELM	8	Y	N	N	N	Y	N	REMOVE
TP23A	12399	ELM	8	Y	N	N	N	Y	N	1
TP23A	12401	ELM	6	Y	N	N	N	Y	N	1
TP23A	12402	ELM	7	Y	N	N	N	Y	N	1
TP23A	12403	ELM	10	Y	N	N	N	Y	N	1
TP23A	12408	ELM	6	Y	N	N	N	Y	N	1
TP23A	12409	LIVE OAK	15	Y	N	N	N	Y	N	1
TP23A	12410	ELM	9	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLAN SHEET\TREE TREE INVENTORY 2 OF 4.DWG
1/25/2023 1:17 PM
PLOTTED BY
DWG NAME
JOB REVISED

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP23A	12411	ELM	6	Y	N	N	N	Y	N	1
TP23A	12412	ELM	6	Y	N	N	N	Y	N	1
TP23A	12413	ELM	7	Y	N	N	N	Y	N	1
TP23A	12431	ELM	6	Y	N	N	N	Y	N	REMOVE
TP23A	12432	HACKBERRY	10	Y	N	N	N	Y	N	1
TP23A	12433	CHITTAWOOD	6	Y	N	N	N	Y	N	1
TP23A	12434	ELM	9	Y	N	N	N	Y	N	1
TP23A	12437	ELM	8	Y	N	N	N	Y	N	1
TP23A	12438	ELM	8	Y	N	N	N	Y	N	1
TP23A	12439	ELM	10	Y	N	N	N	Y	N	1
TP23A	12443	ELM	10	Y	N	N	N	Y	N	1
TP23A	12448	ELM	14	Y	N	N	N	Y	N	1
TP23A	12449	ELM	9	Y	N	N	N	Y	N	1
TP23A	12453	ELM	10	Y	N	N	N	Y	N	1
TP23A	12455	ELM	8	Y	N	N	N	Y	N	1
TP23A	12457	ELM	7	Y	N	N	N	Y	N	1
TP23A	12458	ELM	6	Y	N	N	N	Y	N	1
TP23A	12459	ELM	9	Y	N	N	N	Y	N	1
TP23A	12463	ELM	10	Y	N	N	N	Y	N	1
TP23A	12464	ELM	7	Y	N	N	N	Y	N	1
TP23A	12465	ELM	6	Y	N	N	N	Y	N	1
TP23A	12467	ELM	11	Y	N	N	N	Y	N	1
TP23A	12470	ELM	7	Y	N	N	N	Y	N	1
TP23A	12471	HACKBERRY	10	Y	N	N	N	Y	N	1
TP23A	12472	ELM	7	Y	N	N	N	Y	N	1
TP24	12107	ELM	14	Y	N	N	N	Y	N	1
TP24	12108	ELM	15	Y	N	N	N	Y	N	1
TP24	12110	ELM	14	Y	N	N	N	Y	N	1
TP24	12111	ELM	9	Y	N	N	N	Y	N	1
TP24	12113	LIVE OAK	22	Y	N	N	N	Y	N	1
TP24	12114	HACKBERRY	10	Y	N	N	N	Y	N	1
TP24	12119	ELM	6	Y	N	N	N	Y	N	1
TP24	12120	ELM	6	Y	N	N	N	Y	N	1
TP24	12131	ELM	18	Y	N	N	N	Y	N	1
TP24	12132	LIVE OAK	27	Y	Y	Y	N	Y	N	1
TP24	12135	ELM	12	Y	N	N	N	Y	N	REMOVE
TP24	12142	ELM	6	Y	N	N	N	Y	N	REMOVE
TP24	12151	ELM	7	Y	N	N	N	Y	N	REMOVE
TP24	12152	ELM	13	Y	N	N	N	Y	N	1
TP24	12158	ELM	8	Y	N	N	N	Y	N	1
TP24	12159	ELM	7	Y	N	N	N	Y	N	1
TP24	12161	ELM	14	Y	N	N	N	Y	N	1
TP24	12162	ELM	11	Y	N	N	N	Y	N	1
TP24	12163	ELM	13	Y	N	N	N	Y	N	1
TP24	12164	ELM	11	Y	N	N	N	Y	N	1
TP24	12165	ELM	15	Y	N	N	N	Y	N	1
TP24	12166	ELM	6	Y	N	N	N	Y	N	1
TP24	12177	ELM	6	Y	N	N	N	Y	N	1
TP24	12182	ELM	6	Y	N	N	N	Y	N	1
TP24	12183	ELM	6	Y	N	N	N	Y	N	1
TP24	12184	ELM	7	Y	N	N	N	Y	N	1
TP24	12188	ELM	24	Y	Y	Y	N	Y	N	1
TP24	12189	ELM	14	Y	N	N	N	Y	N	1
TP24	12196	LIVE OAK	20	Y	N	N	N	Y	N	1
TP24	12199	LIVE OAK	10	Y	N	N	N	Y	N	1
TP24	12200	ELM	9	Y	N	N	N	Y	N	1
TP24	12203	ELM	11	Y	N	N	N	Y	N	1
TP24	12204	LIVE OAK	30	Y	Y	Y	N	Y	N	1
TP24	12205	ELM	12	Y	N	N	N	Y	N	1
TP24	12207	ELM	11	Y	N	N	N	Y	N	1
TP24	12213	ELM	7	Y	N	N	N	Y	N	1
TP24	12215	LIVE OAK	22	Y	N	N	N	Y	N	1
TP24	12220	LIVE OAK	28	Y	Y	Y	N	Y	N	1
TP24	12228	LIVE OAK	21	Y	N	N	N	Y	N	1
TP24	12229	ELM	7	Y	N	N	N	Y	N	1
TP24	12238	ELM	15	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP24	12239	ELM	11	Y	N	N	N	Y	N	1
TP24	12240	ELM	11	Y	N	N	N	Y	N	1
TP24	12241	ELM	12	Y	N	N	N	Y	N	1
TP24	12246	ELM	7	Y	N	N	N	Y	N	1
TP24	12247	ELM	11	Y	N	N	N	Y	N	1
TP24	12248	ELM	11	Y	N	N	N	Y	N	1
TP24	12252	LIVE OAK	28	Y	Y	Y	N	Y	N	1
TP24	12253	ELM	8	Y	N	N	N	Y	N	1
TP24	12254	ELM	13	Y	N	N	N	Y	N	1
TP24	12262	ELM	17	Y	N	N	N	Y	N	1
TP24	12268	ELM	21	Y	N	N	N	Y	N	1
TP24	12270	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24	12272	ELM	6	Y	N	N	N	Y	N	1
TP24	12278	ELM	12	Y	N	N	N	Y	N	1
TP24	12325	ELM	16	Y	N	N	N	Y	N	1
TP24	12328	ELM	15	Y	N	N	N	Y	N	1
TP24A	12074	ELM	18	Y	N	N	N	Y	N	1
TP24A	12077	ELM	14	Y	N	N	N	Y	N	1
TP24A	12079	ELM	12	Y	N	N	N	Y	N	1
TP24A	12081	ELM	15	Y	N	N	N	Y	N	1
TP24A	12082	LIVE OAK	6	Y	N	N	N	Y	N	1
TP24A	12091	ELM	12	Y	N	N	N	Y	N	1
TP24A	20041	HACKBERRY	10	Y	N	N	N	Y	N	1
TP24A	20042	ELM	6	Y	N	N	N	Y	N	1
TP24A	20043	ELM	8	Y	N	N	N	Y	N	1
TP24A	20044	HACKBERRY	29	Y	Y	Y	N	Y	N	1
TP24A	20045	ELM	10	Y	N	N	N	Y	N	1
TP24A	20046	ELM	13	Y	N	N	N	Y	N	1
TP24A	20047	HACKBERRY	13	Y	N	N	N	Y	N	1
TP24A	20048	ELM	9	Y	N	N	N	Y	N	1
TP24A	20049	ELM	8	Y	N	N	N	Y	N	1
TP24A	20050	ELM	8	Y	N	N	N	Y	N	1
TP24A	20051	ELM	21	Y	N	N	N	Y	N	1
TP24A	20052	ELM	28	Y	Y	Y	N	Y	N	1
TP24A	20053	HACKBERRY	15	Y	N	N	N	Y	N	1
TP24A	20054	ELM	6	Y	N	N	N	Y	N	1
TP24A	20055	ELM	9	Y	N	N	N	Y	N	1
TP24A	20056	ELM	9	Y	N	N	N	Y	N	1
TP24A	20057	ELM	7	Y	N	N	N	Y	N	1
TP24A	20058	ELM	7	Y	N	N	N	Y	N	1
TP24A	20059	ELM	8	Y	N	N	N	Y	N	1
TP24A	20060	HACKBERRY	10	Y	N	N	N	Y	N	1
TP24A	20061	HACKBERRY	10	Y	N	N	N	Y	N	1
TP24A	20062	ELM	9	Y	N	N	N	Y	N	1
TP24A	20063	ELM	7	Y	N	N	N	Y	N	1
TP24A	20064	ELM	6	Y	N	N	N	Y	N	1
TP24A	20065	ELM	6	Y	N	N	N	Y	N	1
TP24A	20066	HACKBERRY	10	Y	N	N	N	Y	N	1
TP24A	20067	ELM	18	Y	N	N	N	Y	N	1
TP24A	20068	ELM	15	Y	N	N	N	Y	N	1
TP24A	20069	ELM	18	Y	N	N	N	Y	N	1
TP24A	20070	ELM	6	Y	N	N	N	Y	N	REMOVE
TP24A	20071	LIVE OAK	16	Y	N	N	N	Y	N	1
TP24A	20072	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24A	20073	LIVE OAK	14	Y	N	N	N	Y	N	1
TP24A	20074	ELM	16	Y	N	N	N	Y	N	1
TP24A	20075	ELM	23	Y	N	N	N	Y	N	1
TP24A	20076	ELM	16	Y	N	N	N	Y	N	1
TP24A	20077	ELM	6	Y	N	N	N	Y	N	REMOVE
TP24A	20078	ELM	22	Y	N	N	N	Y	N	1
TP24A	20079	LIVE OAK	23	Y	N	N	N	Y	N	1
TP24A	20080	ELM	6	Y	N	N	N	Y	N	REMOVE
TP24A	20081	ELM	10	Y	N	N	N	Y	N	1
TP24A	20082	ELM	10	Y	N	N	N	Y	N	1
TP24A	20083	ELM	6	Y	N	N	N	Y	N	1
TP24A	20084	ELM	9	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP24A	20085	HACKBERRY	12	Y	N	N	N	Y	N	1
TP24A	20086	ELM	9	Y	N	N	N	Y	N	REMOVE
TP24A	20087	ELM	7	Y	N	N	N	Y	N	REMOVE
TP24A	20088	HACKBERRY	15	Y	N	N	N	Y	N	1
TP24A	20089	HACKBERRY	9	Y	N	N	N	Y	N	1
TP24A	20090	ELM	7	Y	N	N	N	Y	N	1
TP24A	20091	ELM	6	Y	N	N	N	Y	N	1
TP24A	20092	ELM	12	Y	N	N	N	Y	N	1
TP24A	20093	ELM	6	Y	N	N	N	Y	N	1
TP24A	20094	ELM	12	Y	N	N	N	Y	N	1
TP24A	20095	ELM	13	Y	N	N	N	Y	N	1
TP24A	20096	ELM	7	Y	N	N	N	Y	N	REMOVE
TP24A	20097	ELM	8	Y	N	N	N	Y	N	REMOVE
TP24A	20098	ELM	7	Y	N	N	N	Y	N	REMOVE
TP24A	11831	LIVE OAK	28	Y	Y	Y	N	Y	N	1
TP24A	11832	LIVE OAK	22	Y	N	N	N	Y	N	1
TP24A	11833	HACKBERRY	14	Y	N	N	N	Y	N	1
TP24A	11836	ELM	6	Y	N	N	N	Y	N	1
TP24A	11839	ELM	13	Y	N	N	N	Y	N	1
TP24A	11840	LIVE OAK	6	Y	N	N	N	Y	N	1
TP24A	11841	LIVE OAK	6	Y	N	N	N	Y	N	1
TP24A	11845	ELM	7	Y	N	N	N	Y	N	1
TP24A	11849	LIVE OAK	21	Y	N	N	N	Y	N	1
TP24A	11850	LIVE OAK	11	Y	N	N	N	Y	N	1
TP24A	11851	ELM	12	Y	N	N	N	Y	N	1
TP24A	11853	LIVE OAK	10	Y	N	N	N	Y	N	1
TP24A	11854	LIVE OAK	33	Y	Y	Y	N	Y	N	1
TP24A	20002	ELM	15	Y	N	N	N	Y	N	1
TP24A	20003	ELM	9	Y	N	N	N	Y	N	1
TP24A	20004	LIVE OAK	21	Y	N	N	N	Y	N	1
TP24A	20005	ELM	10	Y	N	N	N	Y	N	1
TP24A	20006	LIVE OAK	28	Y	Y	Y	N	Y	N	1
TP24A	20007	ELM	12	Y	N	N	N	Y	N	1
TP24A	20008	ELM	7	Y	N	N	N	Y	N	1
TP24A	20009	ELM	13	Y	N	N	N	Y	N	1
TP24A	20010	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24A	20011	ELM	11	Y	N	N	N	Y	N	1
TP24A	20012	ELM	12	Y	N	N	N	Y	N	1
TP24A	20013	ELM	9	Y	N	N	N	Y	N	1
TP24A	20014	ELM	8	Y	N	N	N	Y	N	1
TP24A	20015	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24A	20016	ELM	15	Y	N	N	N	Y	N	1
TP24A	20017	ELM	11	Y	N	N	N	Y	N	1
TP24A	20018	ELM	11	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLAN SHEET\TREE TREE INVENTORY 2 OF 4.DWG
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DWG NAME
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TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP24A	20019	LIVE OAK	11	Y	N	N	N	Y	N	1
TP24A	20020	ELM	6	Y	N	N	N	Y	N	1
TP24A	20021	LIVE OAK	12	Y	N	N	N	Y	N	1
TP24A	20022	LIVE OAK	9	Y	N	N	N	Y	N	1
TP24A	20023	LIVE OAK	9	Y	N	N	N	Y	N	1
TP24A	20024	LIVE OAK	25	Y	Y	Y	N	Y	N	1
TP24A	20025	ELM	7	Y	N	N	N	Y	N	1
TP24A	20026	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24A	20027	ELM	14	Y	N	N	N	Y	N	1
TP24A	20028	LIVE OAK	13	Y	N	N	N	Y	N	1
TP24A	20029	ELM	7	Y	N	N	N	Y	N	1
TP24A	20030	LIVE OAK	10	Y	N	N	N	Y	N	1
TP24A	20031	ELM	11	Y	N	N	N	Y	N	1
TP24A	20032	LIVE OAK	15	Y	N	N	N	Y	N	1
TP24A	20033	LIVE OAK	19	Y	N	N	N	Y	N	1
TP24A	20034	LIVE OAK	14	Y	N	N	N	Y	N	1
TP24A	20035	LIVE OAK	11	Y	N	N	N	Y	N	1
TP24A	20036	HACKBERRY	11	Y	N	N	N	Y	N	1
TP24A	20037	HACKBERRY	13	Y	N	N	N	Y	N	1
TP24A	20038	ELM	12	Y	N	N	N	Y	N	1
TP24A	20039	LIVE OAK	30	Y	Y	Y	N	Y	N	1
TP24A	20040	HACKBERRY	13	Y	N	N	N	Y	N	1
TP24A	20099	ELM	7	Y	N	N	N	Y	N	REMOVE
TP24A	20100	ELM	7	Y	N	N	N	Y	N	1
TP24A	20101	ELM	6	Y	N	N	N	Y	N	1
TP24A	20102	ELM	9	Y	N	N	N	Y	N	1
TP24A	20103	ELM	9	Y	N	N	N	Y	N	1
TP24A	20104	ELM	8	Y	N	N	N	Y	N	1
TP24A	20105	ELM	7	Y	N	N	N	Y	N	1
TP24A	20106	ELM	8	Y	N	N	N	Y	N	1
TP24A	20107	ELM	8	Y	N	N	N	Y	N	1
TP25	11602	ELM	6	Y	N	N	N	Y	N	1
TP25	11603	ELM	6	Y	N	N	N	Y	N	1
TP25	11616	ELM	6	Y	N	N	N	Y	N	1
TP25	11628	ELM	6	Y	N	N	N	Y	N	1
TP25	11633	ELM	6	Y	N	N	N	Y	N	1
TP25	11638	ELM	7	Y	N	N	N	Y	N	1
TP25	11642	ELM	6	Y	N	N	N	Y	N	REMOVE
TP25	11643	LIVE OAK	6	Y	N	N	N	Y	N	1
TP25	11645	ELM	6	Y	N	N	N	Y	N	1
TP25	11657	ELM	9	Y	N	N	N	Y	N	1
TP25	11658	ELM	7	Y	N	N	N	Y	N	1
TP25	11659	ELM	7	Y	N	N	N	Y	N	1
TP25	11660	ELM	6	Y	N	N	N	Y	N	1
TP25	11662	ELM	6	Y	N	N	N	Y	N	1
TP25	11664	LIVE OAK	12	Y	N	N	N	Y	N	1
TP25	11705	ELM	6	Y	N	N	N	Y	N	1
TP25	11706	ELM	10	Y	N	N	N	Y	N	1
TP25	11707	LIVE OAK	10	Y	N	N	N	Y	N	1
TP25	11708	ELM	6	Y	N	N	N	Y	N	1
TP25	11710	ELM	9	Y	N	N	N	Y	N	1
TP25	11713	LIVE OAK	18	Y	N	N	N	Y	N	1
TP25	11714	ELM	6	Y	N	N	N	Y	N	1
TP25	11719	ELM	10	Y	N	N	N	Y	N	1
TP25	11720	ELM	11	Y	N	N	N	Y	N	1
TP25	11721	ELM	9	Y	N	N	N	Y	N	1
TP25	11735	ELM	11	Y	N	N	N	Y	N	1
TP25	11736	LIVE OAK	8	Y	N	N	N	Y	N	1
TP25	11737	ELM	7	Y	N	N	N	Y	N	1
TP25	11739	ELM	9	Y	N	N	N	Y	N	1
TP25	11761	TR	5	N	N	N	N	Y	N	1
TP25	11787	ELM	6	Y	N	N	N	Y	N	REMOVE
TP25	11804	ELM	6	Y	N	N	N	Y	N	1
TP25	11805	LIVE OAK	22	Y	N	N	N	Y	N	1
TP25	11818	ELM	6	Y	N	N	N	Y	N	1
TP25	11822	ELM	6	Y	N	N	N	Y	N	1
TP25	20001	ELM	6	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP26	11181	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26	11182	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11186	HACKBERRY	10	Y	N	N	N	Y	N	1
TP26	11187	ELM	10	Y	N	N	N	Y	N	1
TP26	11194	ELM	13	Y	N	N	N	Y	N	1
TP26	11195	ELM	14	Y	N	N	N	Y	N	1
TP26	11197	ELM	6	Y	N	N	N	Y	N	1
TP26	11211	HACKBERRY	18	Y	N	N	N	Y	N	REMOVE
TP26	11215	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11216	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11221	ELM	6	Y	N	N	N	Y	N	1
TP26	11225	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26	11226	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11229	ELM	7	Y	N	N	N	Y	N	1
TP26	11231	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11239	ELM	7	Y	N	N	N	Y	N	REMOVE
TP26	11242	ELM	7	Y	N	N	N	Y	N	REMOVE
TP26	11250	ELM	8	Y	N	N	N	Y	N	1
TP26	11258	ELM	11	Y	N	N	N	Y	N	REMOVE
TP26	11259	ELM	12	Y	N	N	N	Y	N	REMOVE
TP26	11263	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11271	ELM	7	Y	N	N	N	Y	N	1
TP26	11276	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26	11277	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11282	LIVE OAK	10	Y	N	N	N	Y	N	1
TP26	11285	ELM	7	Y	N	N	N	Y	N	1
TP26	11286	ELM	6	Y	N	N	N	Y	N	1
TP26	11287	ELM	6	Y	N	N	N	Y	N	1
TP26	11292	ELM	6	Y	N	N	N	Y	N	1
TP26	11293	ELM	7	Y	N	N	N	Y	N	1
TP26	11313	ELM	7	Y	N	N	N	Y	N	REMOVE
TP26	11316	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11317	ELM	9	Y	N	N	N	Y	N	REMOVE
TP26	11318	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11338	ELM	12	Y	N	N	N	Y	N	1
TP26	11339	ELM	9	Y	N	N	N	Y	N	1
TP26	11340	ELM	12	Y	N	N	N	Y	N	1
TP26	11341	ELM	11	Y	N	N	N	Y	N	1
TP26	11355	ELM	6	Y	N	N	N	Y	N	1
TP26	11361	ELM	7	Y	N	N	N	Y	N	1
TP26	11364	ELM	6	Y	N	N	N	Y	N	1
TP26	11398	ELM	11	Y	N	N	N	Y	N	1
TP26	11399	ELM	7	Y	N	N	N	Y	N	1
TP26	11401	ELM	9	Y	N	N	N	Y	N	1
TP26	11402	ELM	7	Y	N	N	N	Y	N	1
TP26	11403	ELM	11	Y	N	N	N	Y	N	1
TP26	11404	ELM	9	Y	N	N	N	Y	N	1
TP26	11405	ELM	9	Y	N	N	N	Y	N	1
TP26	11406	ELM	10	Y	N	N	N	Y	N	1
TP26	11407	ELM	7	Y	N	N	N	Y	N	1
TP26	11433	ELM	23	Y	N	N	N	Y	N	1
TP26	11439	ELM	11	Y	N	N	N	Y	N	REMOVE
TP26	11440	ELM	15	Y	N	N	N	Y	N	REMOVE
TP26	11455	ELM	6	Y	N	N	N	Y	N	1
TP26	11457	ELM	16	Y	N	N	N	Y	N	1
TP26	11458	ELM	15	Y	N	N	N	Y	N	1
TP26	11461	ELM	13	Y	N	N	N	Y	N	1
TP26	11462	ELM	6	Y	N	N	N	Y	N	1
TP26	11463	ELM	7	Y	N	N	N	Y	N	1
TP26	11466	ELM	9	Y	N	N	N	Y	N	1
TP26	11467	LIVE OAK	17	Y	N	N	N	Y	N	1
TP26	11468	ELM	11	Y	N	N	N	Y	N	1
TP26	11469	POST OAK	15	Y	N	N	N	Y	N	1
TP26	11472	ELM	14	Y	N	N	N	Y	N	1
TP26	11481	ELM	20	Y	N	N	N	Y	N	1
TP26	11485	ELM	15	Y	N	N	N	Y	N	1

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP26	11486	ELM	9	Y	N	N	N	Y	N	1
TP26	11487	ELM	13	Y	N	N	N	Y	N	1
TP26	11495	ELM	6	Y	N	N	N	Y	N	1
TP26	11556	ELM	9	Y	N	N	N	Y	N	1
TP26	11557	TR	7	Y	N	N	N	Y	N	1
TP26	11558	ELM	18	Y	N	N	N	Y	N	1
TP26	11564	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26	11565	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26	11666	ELM	10	Y	N	N	N	Y	N	1
TP26	11667	ELM	6	Y	N	N	N	Y	N	1
TP26	11668	ELM	6	Y	N	N	N	Y	N	1
TP26	11669	ELM	11	Y	N	N	N	Y	N	1
TP26	11670	ELM	8	Y	N	N	N	Y	N	1
TP26	11672	ELM	6	Y	N	N	N	Y	N	1
TP26	11673	ELM	7	Y	N	N	N	Y	N	1
TP26	11674	ELM	7	Y	N	N	N	Y	N	1
TP26	11676	ELM	6	Y	N	N	N	Y	N	1
TP26	11681	LIVE OAK	17	Y	N	N	N	Y	N	1
TP26	11682	ELM	9	Y	N	N	N	Y	N	1
TP26	11683	ELM	6	Y	N	N	N	Y	N	1
TP26	11684	ELM	11	Y	N	N	N	Y	N	1
TP26	11686	RED OAK	13	Y	N	N	N	Y	N	1
TP26	11687	ELM	8	Y	N	N	N	Y	N	1
TP26	11688	ELM	7	Y	N	N	N	Y	N	1
TP26	11689	HACKBERRY	14	Y	N	N	N	Y	N	1
TP26	11690	LIVE OAK	13	Y	N	N	N	Y	N	1
TP26	11691	ELM	13	Y	N	N	N	Y	N	1
TP26	11693	ELM	11	Y	N	N	N	Y	N	1
TP26	11694	RED OAK	6	Y	N	N	N	Y	N	1
TP26A	11091	MESQUITE	13	Y	N	N	N	Y	N	1
TP26A	11093	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26A	11095	ELM	9	Y	N	N	N	Y	N	REMOVE
TP26A	11096	LIVE OAK	39	Y	Y	Y	N	Y	N	REMOVE
TP26A	11097	ELM	6	Y	N	N	N	Y	N	1
TP26A	11099	ELM	7	Y	N	N	N	Y	N	1
TP26A	11100	ELM	7	Y	N	N	N	Y	N	1
TP26A	11101	HACKBERRY	13	Y	N	N	N	Y	N	REMOVE
TP26A	11102	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26A	11103	ELM	8	Y	N	N	N	Y	N	REMOVE
TP26A	11104	ELM	9	Y	N	N	N	Y	N	REMOVE
TP26A	11106	CEDAR	10	Y	N	N	N	Y	N	1
TP26A	11107	ELM	7	Y	N	N	N	Y	N	1
TP26A	11109	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26A	11110	ELM	6	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLANS\TREE TREE INVENTORY 2 OF 4.DWG
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DWG NAME
06/28/2023

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP26A	11134	HACKBERRY	11	Y	N	N	N	Y	N	1
TP26A	11135	ELM	8	Y	N	N	N	Y	N	1
TP26A	11136	ELM	6	Y	N	N	N	Y	N	1
TP26A	11137	ELM	7	Y	N	N	N	Y	N	1
TP26A	11138	ELM	6	Y	N	N	N	Y	N	1
TP26A	11141	HACKBERRY	11	Y	N	N	N	Y	N	1
TP26A	11142	HACKBERRY	11	Y	N	N	N	Y	N	1
TP26A	11143	ELM	7	Y	N	N	N	Y	N	1
TP26A	11144	HACKBERRY	12	Y	N	N	N	Y	N	1
TP26A	11145	ELM	11	Y	N	N	N	Y	N	1
TP26A	11146	ELM	6	Y	N	N	N	Y	N	1
TP26A	11157	ELM	11	Y	N	N	N	Y	N	REMOVE
TP26A	11160	ELM	6	Y	N	N	N	Y	N	REMOVE
TP26A	11165	ELM	11	Y	N	N	N	Y	N	REMOVE
TP26A	11167	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10956	HACKBERRY	11	Y	N	N	N	Y	N	1
TP27	10957	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10958	ELM	11	Y	N	N	N	Y	N	REMOVE
TP27	10950	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10963	ELM	10	Y	N	N	N	Y	N	REMOVE
TP27	10966	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10967	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10968	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10970	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10971	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10972	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10973	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10974	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP27	10976	HACKBERRY	11	Y	N	N	N	Y	N	1
TP27	10987	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27	10988	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10990	ELM	6	Y	N	N	N	Y	N	1
TP27	10994	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10995	ELM	7	Y	N	N	N	Y	N	1
TP27	10996	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	10997	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	10998	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27	10999	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP27	11000	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11002	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	11003	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11004	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11005	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11007	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11008	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	11009	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11010	HACKBERRY	11	Y	N	N	N	Y	N	1
TP27	11011	ELM	6	Y	N	N	N	Y	N	1
TP27	11012	ELM	6	Y	N	N	N	Y	N	1
TP27	11014	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11015	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	11016	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27	11017	ELM	7	Y	N	N	N	Y	N	1
TP27	11019	HUISACHE	10	Y	N	N	N	Y	N	REMOVE
TP27	11020	MESQUITE	11	Y	N	N	N	Y	N	REMOVE
TP27	11024	ELM	9	Y	N	N	N	Y	N	1
TP27	11025	HACKBERRY	15	Y	N	N	N	Y	N	1
TP27	11026	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP27	11029	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27	11031	ELM	6	Y	N	N	N	Y	N	1
TP27	11033	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11034	HACKBERRY	17	Y	N	N	N	Y	N	REMOVE
TP27	11068	HACKBERRY	10	Y	N	N	N	Y	N	1
TP27	11069	ELM	13	Y	N	N	N	Y	N	REMOVE


TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP27	11070	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11071	HACKBERRY	11	Y	N	N	N	Y	N	REMOVE
TP27	11072	HACKBERRY	12	Y	N	N	N	Y	N	REMOVE
TP27	11073	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	11074	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11075	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27	11077	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27	11087	HACKBERRY	14	Y	N	N	N	Y	N	REMOVE
TP27	11089	ELM	8	Y	N	N	N	Y	N	1
TP27	11090	ELM	10	Y	N	N	N	Y	N	1
TP27A	10710	LIVE OAK	7	Y	N	N	N	Y	N	1
TP27A	10711	LIVE OAK	7	Y	N	N	N	Y	N	1
TP27A	10722	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27A	10724	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10725	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10726	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10737	ELM	11	Y	N	N	N	Y	N	1
TP27A	10738	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27A	10739	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10740	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27A	10741	HACKBERRY	13	Y	N	N	N	Y	N	1
TP27A	10747	ELM	8	Y	N	N	N	Y	N	1
TP27A	10757	ELM	16	Y	N	N	N	Y	N	1
TP27A	10759	LIVE OAK	20	Y	N	N	N	Y	N	REMOVE
TP27A	10788	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10789	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10790	LIVE OAK	21	Y	N	N	N	Y	N	REMOVE
TP27A	10793	ELM	12	Y	N	N	N	Y	N	REMOVE
TP27A	10802	LIVE OAK	15	Y	N	N	N	Y	N	1
TP27A	10809	LIVE OAK	21	Y	N	N	N	Y	N	REMOVE
TP27A	10812	LIVE OAK	21	Y	N	N	N	Y	N	1
TP27A	10813	ELM	6	Y	N	N	N	Y	N	1
TP27A	10826	ELM	7	Y	N	N	N	Y	N	1
TP27A	10828	ELM	13	Y	N	N	N	Y	N	1
TP27A	10830	ELM	7	Y	N	N	N	Y	N	1
TP27A	10832	ELM	6	Y	N	N	N	Y	N	1
TP27A	10833	ELM	6	Y	N	N	N	Y	N	1
TP27A	10834	ELM	7	Y	N	N	N	Y	N	1
TP27A	10835	ELM	8	Y	N	N	N	Y	N	1
TP27A	10836	ELM	7	Y	N	N	N	Y	N	1
TP27A	10839	LIVE OAK	21	Y	N	N	N	Y	N	REMOVE
TP27A	10846	LIVE OAK	7	Y	N	N	N	Y	N	1
TP27A	10848	LIVE OAK	14	Y	N	N	N	Y	N	1
TP27A	10849	LIVE OAK	14	Y	N	N	N	Y	N	1
TP27A	10850	LIVE OAK	16	Y	N	N	N	Y	N	1
TP27A	10851	LIVE OAK	14	Y	N	N	N	Y	N	1
TP27A	10852	LIVE OAK	17	Y	N	N	N	Y	N	1
TP27A	10854	LIVE OAK	7	Y	N	N	N	Y	N	1
TP27A	10857	LIVE OAK	20	Y	N	N	N	Y	N	1
TP27A	10859	ELM	7	Y	N	N	N	Y	N	1
TP27A	10861	ELM	7	Y	N	N	N	Y	N	1
TP27A	10870	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10871	ELM	6	Y	N	N	N	Y	N	1
TP27A	10872	ELM	10	Y	N	N	N	Y	N	REMOVE
TP27A	10874	ELM	11	Y	N	N	N	Y	N	1
TP27A	10875	ELM	6	Y	N	N	N	Y	N	1
TP27A	10876	ELM	8	Y	N	N	N	Y	N	1
TP27A	10878	ELM	8	Y	N	N	N	Y	N	1
TP27A	10880	ELM	10	Y	N	N	N	Y	N	1
TP27A	10881	ELM	13	Y	N	N	N	Y	N	1
TP27A	10882	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27A	10885	ELM	0	N	N	N	N	Y	N	1
TP27A	10886	ELM	9	Y	N	N	N	Y	N	1
TP27A	10887	ELM	8	Y	N	N	N	Y	N	1
TP27A	10888	ELM	8	Y	N	N	N	Y	N	1
TP27A	10890	ELM	6	Y	N	N	N	Y	N	1
TP27A	10980	ELM	12	Y	N	N	N	Y	N	REMOVE
TP27A	10961	ELM	9	Y	N	N	N	Y	N	REMOVE
TP27	10962	ELM	6	Y	N	N	N	Y	N	REMOVE

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP27A	10891	ELM	8	Y	N	N	N	Y	N	1
TP27A	10892	ELM	6	Y	N	N	N	Y	N	1
TP27A	10893	ELM	7	Y	N	N	N	Y	N	1
TP27A	10894	ELM	8	Y	N	N	N	Y	N	1
TP27A	10895	ELM	7	Y	N	N	N	Y	N	1
TP27A	10896	ELM	6	Y	N	N	N	Y	N	1
TP27A	10897	ELM	13	Y	N	N	N	Y	N	1
TP27A	10899	ELM	6	Y	N	N	N	Y	N	1
TP27A	10936	ELM	12	Y	N	N	N	Y	N	REMOVE
TP27A	10937	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10938	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10939	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27A	10940	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10941	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10942	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10943	ELM	7	Y	N	N	N	Y	N	1
TP27A	10944	ELM	9	Y	N	N	N	Y	N	1
TP27A	10946	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10947	ELM	7	Y	N	N	N	Y	N	REMOVE
TP27A	10948	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27A	10949	ELM	8	Y	N	N	N	Y	N	REMOVE
TP27A	10951	ELM	6	Y	N	N	N	Y	N	REMOVE
TP27A	10953	HACKBERRY	10	Y	N	N	N	Y	N	REMOVE
TP28	10618	LIVE OAK	10	Y	N	N	N	Y	N	1
TP28	10624	LIVE OAK	12	Y	N	N	N	Y	N	REMOVE
TP28	10629	LIVE OAK	24	Y	Y	Y	N	Y	N	1
TP28	10631	ELM	6	Y	N	N	N	Y	N	REMOVE
TP28	10634	ELM	6	Y	N	N	N	Y	N	1
TP28	10635	ELM	7	Y	N	N	N	Y	N	REMOVE
TP28	10656	ELM	6	Y	N	N	N	Y	N	1
TP28	10657	ELM	7	Y	N	N	N	Y	N	1
TP28	10658	ELM	6	Y	N	N	N	Y	N	1
TP28	10659	ELM	7	Y	N	N	N	Y	N	1
TP28	10664	ELM	7	Y	N	N	N	Y	N	1
TP28	10665	HACKBERRY	10	Y	N	N	N	Y	N	1
TP28	10675	HACKBERRY	13	Y	N	N	N	Y	N	1
TP28	10677	ELM	6	Y	N	N	N	Y	N	1
TP28	10678	ELM	7	Y	N	N	N	Y	N	1
TP28	10679	ELM	6	Y	N	N	N	Y	N	1
TP28	10680	ELM	6	Y	N	N	N	Y	N	1
TP28	10681	LIVE OAK	7	Y	N	N	N	Y	N	1
TP28	10686	ELM	10	Y	N	N	N	Y	N	1
TP28	10687	HACKBERRY	10	Y	N	N	N	Y	N	1

WALTON, LINDSEY 1/25/2023 10:31 AM
K:\SNA UTILITIES\06865068\CADD\PLAN SHEET\TREE TREE INVENTORY 2 OF 41.DWG
06/29/2023 11:17 AM
PLOTTED BY
DWG NAME
JOB #

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP28	10705	LIVE OAK	10	Y	N	N	N	Y	N	1
TP28	10706	ELM	12	Y	N	N	N	Y	N	1
TP28	10709	ELM	7	Y	N	N	N	Y	N	1
TP28	10718	ELM	6	Y	N	N	N	Y	N	1
TP28	10742	ELM	6	Y	N	N	N	Y	N	1
TP28	10743	ELM	17	Y	N	N	N	Y	N	1
TP28	10744	HACKBERRY	12	Y	N	N	N	Y	N	1
TP28	10748	ELM	14	Y	N	N	N	Y	N	1
TP28	10749	ELM	6	Y	N	N	N	Y	N	1
TP28	10750	LIVE OAK	18	Y	N	N	N	Y	N	1
TP28	10827	ELM	6	Y	N	N	N	Y	N	1
TP29	8311	LIVE OAK	22	Y	N	N	N	N	Y	1
TP29	8315	HACKBERRY	10	Y	N	N	N	N	Y	1
TP29	8326	ELM	14	Y	N	N	N	Y	N	1
TP29	8328	LIVE OAK	6	Y	N	N	N	Y	N	1
TP29	8330	ELM	8	Y	N	N	N	Y	N	1
TP29	8331	ELM	14	Y	N	N	N	Y	N	1
TP29	8339	HACKBERRY	10	Y	N	N	N	Y	N	1
TP29	8341	HACKBERRY	11	Y	N	N	N	N	Y	1
TP29	8352	ELM	8	Y	N	N	N	Y	N	1
TP29	8353	ELM	8	Y	N	N	N	Y	N	1
TP29	8355	ELM	6	Y	N	N	N	Y	N	1
TP29	8366	ELM	8	Y	N	N	N	Y	N	1
TP29	8368	ELM	6	Y	N	N	N	Y	N	1
TP29	8372	ELM	8	Y	N	N	N	Y	N	1
TP29	8373	ELM	9	Y	N	N	N	Y	N	1
TP29	8374	ELM	15	Y	N	N	N	Y	N	1
TP29	8375	HACKBERRY	13	Y	N	N	N	Y	N	1
TP29	8454	MESQUITE	21	Y	N	N	N	N	N	1
TP29	16518	MESQUITE	10	Y	N	N	N	N	Y	1
TP29	16523	CHITTAMWOOD	6	Y	N	N	N	N	Y	1
TP29	16526	MESQUITE	22	Y	N	N	N	Y	N	1
TP29	16536	ELM	7	Y	N	N	N	Y	N	1
TP29	16537	ELM	8	Y	N	N	N	Y	N	1
TP29	16850	PERSIMMON	5	N	N	N	N	Y	N	1
TP29	16851	PERSIMMON	5	N	N	N	N	Y	N	1
TP29	16555	LIVE OAK	40	Y	Y	Y	N	Y	N	1
TP29	16557	PERSIMMON	5	N	N	N	N	Y	N	1
TP29	16559	ELM	7	Y	N	N	N	Y	N	1
TP29	16565	ELM	7	Y	N	N	N	Y	N	1
TP29	16576	ELM	8	Y	N	N	N	Y	N	1
TP29	16585	ELM	7	Y	N	N	N	Y	N	1
TP29	16586	ELM	10	Y	N	N	N	Y	N	1
TP29	16587	ELM	8	Y	N	N	N	Y	N	1
TP29	16588	ELM	6	Y	N	N	N	Y	N	1
TP29	16589	ELM	16	Y	N	N	N	Y	N	1
TP29	16600	ELM	15	Y	N	N	N	Y	N	1
TP29	16847	ELM	7	Y	N	N	N	Y	N	1
TP29	16855	ELM	6	Y	N	N	N	Y	N	REMOVE
TP29	16871	ELM	15	Y	N	N	N	N	Y	1
TP29	16879	MESQUITE	19	Y	N	N	N	N	Y	1
TP29	17451	ELM	12	Y	N	N	N	N	N	1
TP29	17455	RETAMA	6	Y	N	N	N	N	N	1
TP29	17452	ELM	12	Y	N	N	N	N	N	1
TP29C	8520	ELM	7	Y	N	N	Y	N	N	1
TP29C	8533	HACKBERRY	10	Y	N	N	Y	N	N	5
TP29C	8589	ELM	16	Y	N	N	Y	N	N	2
TP29C	8591	ELM	6	Y	N	N	Y	N	N	4
TP29C	8592	ELM	8	Y	N	N	Y	N	N	3
TP29C	8593	ELM	8	Y	N	N	Y	N	N	6
TP29C	8594	ELM	8	Y	N	N	Y	N	N	7
TP29C	8595	ELM	13	Y	N	N	Y	N	N	8
TP29C	8596	ELM	10	Y	N	N	Y	N	N	9
TP29C	8603	ELM	9	Y	N	N	Y	N	N	10
TP29C	8605	ASHE JUNIPER	11	Y	N	N	Y	N	N	11
TP29C	8610	ELM	6	Y	N	N	Y	N	N	13
TP29C	8613	HACKBERRY	12	Y	N	N	Y	N	N	12

TREE INVENTORY										
SHEET	TAG#	SPECIES ****	SIZE (INCHES)	SIGNIFICANT	HERITAGE	HERITAGE 3:1 (Y/N)	HERITAGE 1:1 (Y/N)	FLOODPLAIN (Y/N)	RIPARIAN (Y/N)	PROTECTION LEVEL
TP29C	8624	MESQUITE	10	Y	N	N	N	Y	N	1
TP29C	8621	HACKBERRY	10	Y	N	N	N	Y	N	2
TP29C	8625	MESQUITE	10	Y	N	N	N	Y	N	3
TP29C	8627	MESQUITE	10	Y	N	N	N	Y	N	4
TP29C	8629	MESQUITE	13	Y	N	N	N	Y	N	5
TP29C	8632	RETAMA	11	Y	N	N	N	Y	N	6
TP29C	8634	ASHE JUNIPER	7	Y	N	N	N	Y	N	7
TP29C	8636	HACKBERRY	11	Y	N	N	N	Y	N	8
TP30	13849	ELM	8	Y	N	N	N	Y	N	1
TP30	13850	ELM	9	Y	N	N	N	Y	N	1
TP30	13956	ELM	7	Y	N	N	N	Y	N	1
TP30	13958	ELM	6	Y	N	N	N	Y	N	1
TP30	14123	ELM	13	Y	N	N	N	Y	N	1
TP30	14124	ELM	8	Y	N	N	N	Y	N	1
TP30	14125	ELM	10	Y	N	N	N	Y	N	1
TP30	14126	ELM	6	Y	N	N	N	Y	N	1
TP30	14127	ELM	7	Y	N	N	N	Y	N	1
TP30	14128	ELM	6	Y	N	N	N	Y	N	1
TP30	14129	ELM	13	Y	N	N	N	Y	N	1
TP30	14130	ELM	6	Y	N	N	N	Y	N	REMOVE
TP30	14145	ELM	8	Y	N	N	N	Y	N	1
TP30	14159	ELM	6	Y	N	N	N	Y	N	1
TP30	14160	ELM	6	Y	N	N	N	Y	N	1
TP30	14195	ELM	8	Y	N	N	N	Y	N	1
TP30	14196	ELM	6	Y	N	N	N	Y	N	1
TP30	14197	ELM	6	Y	N	N	N	Y	N	REMOVE
TP30	14246	ELM	10	Y	N	N	N	Y	N	1
TP30	14255	HACKBERRY	12	Y	N	N	N	Y	N	1
TP30	14256	HACKBERRY	10	Y	N	N	N	Y	N	1
TP30	14263	HACKBERRY	14	Y	N	N	N	Y	N	1
TP30	14271	HACKBERRY	15	Y	N	N	N	Y	N	1
TP30	14278	ELM	6	Y	N	N	N	Y	N	REMOVE
TP30	14281	HACKBERRY	11	Y	N	N	N	Y	N	1
TP30	14282	HACKBERRY	11	Y	N	N	N	Y	N	1
TP30	14284	HACKBERRY	10	Y	N	N	N	Y	N	1
TP30	14291	HACKBERRY	17	Y	N	N	N	Y	N	1
TP30	20177	ELM	24	Y	Y	Y	N	Y	N	1

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No.	Revision	By	Date
<div> SAN ANTONIO WATER SYSTEM</div>		<div>W9 UPPER LEON: CULEBRA CREEK TO WHITBY ROAD 48-INCH SEWER MAIN SHEET</div> <div>TREE INVENTORY (SHEET 41 OF 41)</div>	
DATE: JANUARY 2024		SAWS PROJECT NO.	SHEET NO. TP41
DESIGN: KHA		22-4501	
DRAWN: KHA		KHA PROJECT NO.	
CHECKED: KHA		068665068	