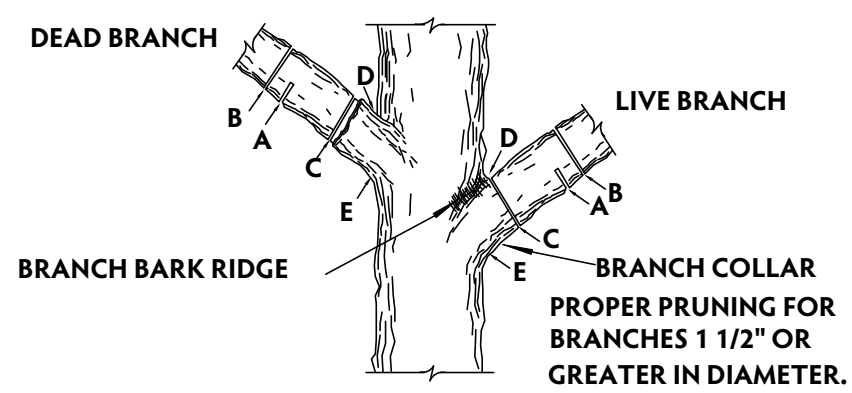
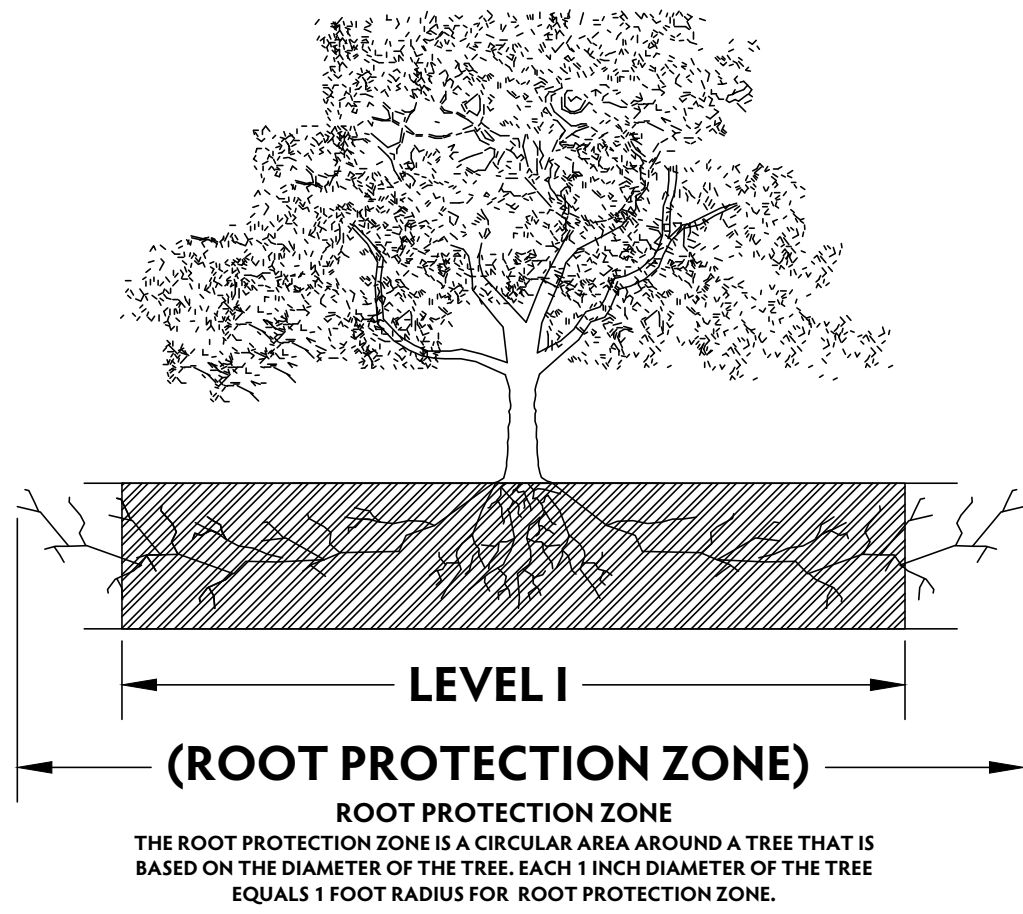


NOTES:

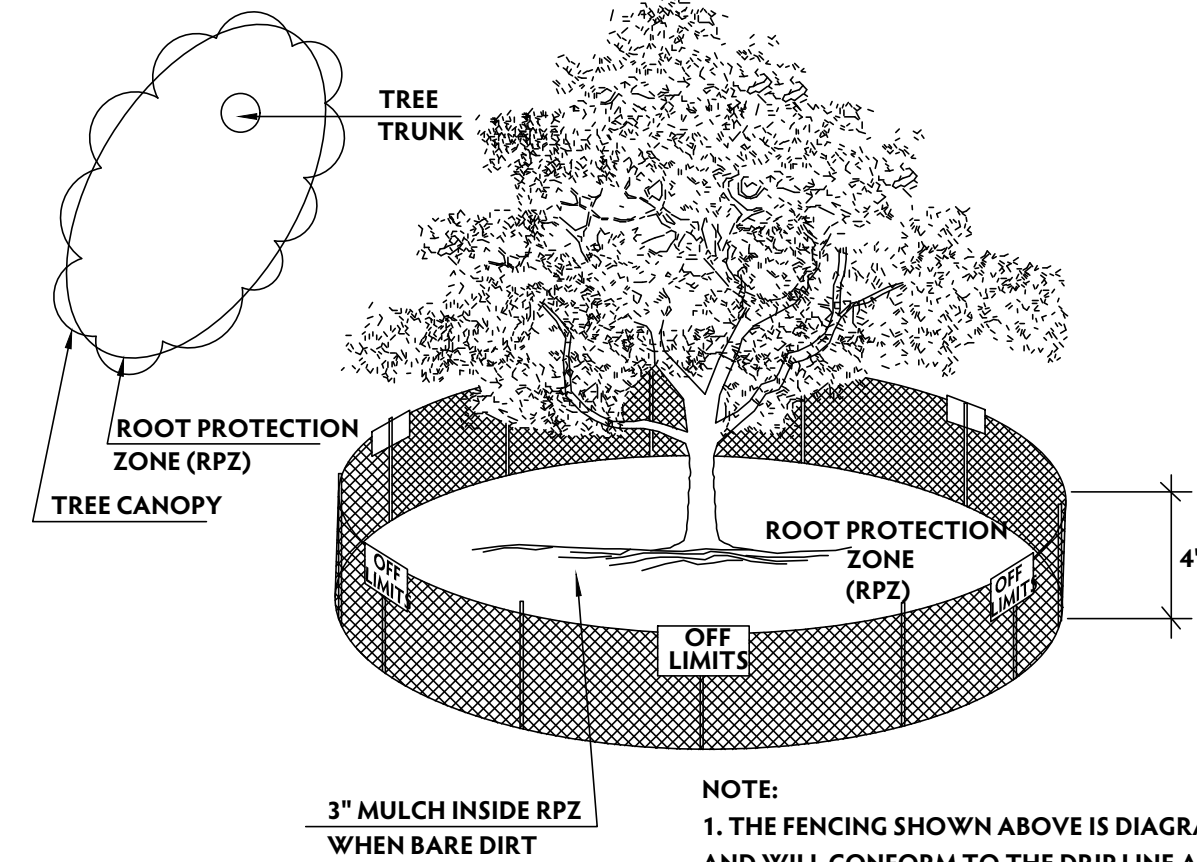
1. FOX FALLS OFF-SITE GRAVITY SEWER IS SUBJECT TO THE CITY OF SAN ANTONIO 2010 TREE ORDINANCE
2. NON-EXEMPT TREES ARE CLASSIFIED AS TREES LOCATED OUTSIDE EXEMPT AREAS (STREET R.O.W. & EASEMENTS) & ARE THE TREES USED IN CALCULATING MINIMUM PRESERVATION REQUIREMENTS PER THE 2010 TREE ORDINANCE.
3. ALL EXISTING TREES DENOTED ON THIS PLAN TO BE PRESERVED AS SHOWN AND PROTECTED AT THE ROOT PROTECTION ZONE (RPZ). THE RPZ SHALL BE DETERMINED BY TREE SIZE (RECOMMENDED 12" RADIUS FROM TRUNK FOR EVERY 1" DIAMETER OF TRUNK AT 4.5' FROM GROUND) WITH A MINIMUM 5' DIAMETER FROM THE TRUNK.
4. A (CHAINLINK OR ORANGE MESH FENCE) BARRIER AROUND THE RPZ SHALL BE ERECTED AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED.
5. RPZ SHALL BE SUSTAINED IN A NATURAL STATE AND SHALL BE FREE FROM VEHICULAR OR MECHANICAL TRAFFIC; NO FILL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED INSIDE THE PROTECTIVE BARRIER.
6. THE RPZ SHALL BE COVERED WITH 6" OF COARSE MULCH TO REDUCE MOISTURE STRESS.
7. ANY DAMAGE DONE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY. ALL WOUNDS TO OAKS WILL BE PAINTED WITH PRUNING PAINT WITHIN 30 MINUTES AFTER DAMAGE. ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS WILL BY CUT CLEANLY.
8. THE PROPOSED FINISH GRADE AND ELEVATION OF LAND WITHIN THE ROOT PROTECTION ZONE OF ANY TREE TO BE PRESERVED SHALL NOT BE RAISED OR LOWERED MORE THAN 3". WELLING AND RETAINING METHODS ARE ALLOWED OUTSIDE THE RPZ.
9. THE RPZ SHALL REMAIN PERVIOUS, I.E. GROUND COVER OR TURF AT COMPLETION OF LANDSCAPE DESIGN.
10. PROTECTED TREES SHALL BE PROTECTED UNTIL SUCH TIME AS THE CONCRETE WORK CAN BE STAKED TO DETERMINE ITS DISTANCE FROM SIGNIFICANT TREES. (IF FOUND THAT THE CONCRETE WORK WILL BE CLOSER THAN 5', THE CONTRACTOR WILL MEET WITH REPRESENTATIVES OF THE ENVIRONMENTAL REVIEW DEPARTMENT TO MINIMIZE IMPACT.)
11. CONTRACTOR TO UPDATE TREE PRESERVATION PLAN FOR CHANGES DURING CONSTRUCTION AND NOTIFY ENGINEER ACCORDINGLY. THE REVISED TREE PRESERVATION PLAN WILL BE RESUBMITTED AND APPROVED BY THE CITY OF SAN ANTONIO ARBORIST DEPARTMENT UPON FINAL ACCEPTANCE OF ALL SUBDIVISION IMPROVEMENTS.
12. NO MORE THAN 25% OF TREES PLANTED FOR MITIGATION SHALL BE OF THE SAME SPECIES.
13. PLANTED TREES SHALL BE A MINIMUM 2" DIAMETER AND SPECIES WITH A MINIMUM SHADE COVER OF 875 S.F. AS IDENTIFIED IN U.D.C. APPENDIX E: SAN ANTONIO RECOMMENDED PLANT LIST - ALL SUITED TO XERISCAPE PLANTING MATHODS.



NOTE: DO NOT CUT FROM D to E.

- A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
- B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
- C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
- D. BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.

FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.



NOTE:

1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND LIMITED TO PROJECT BOUNDARY.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

1.1.2

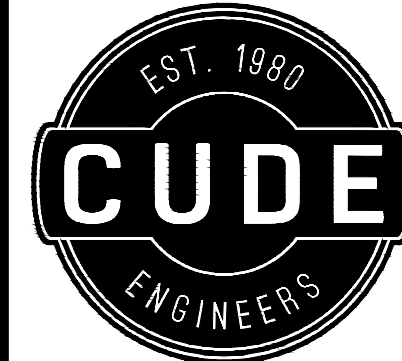
LEVEL I & FENCE PROTECTION

N.T.S.

LEGEND

- SIGNIFICANT TREE TO BE PRESERVED
- SIGNIFICANT TREE TO BE REMOVED
- HERITAGE TREE TO BE PRESERVED
- HERITAGE TREE TO BE REMOVED
- EXEMPT TREE PRESERVED
- EXEMPT TREE REMOVED

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P:(210) 681.2951 F:(210) 523.7112

FOX FALLS OFFSITE GRAVITY SEWER

TREE PRESERVATION PLAN

DATE

04/27/2023

PROJECT NO.
03274.012

DRAWN BY
JRR

CHECKED BY
XV/TCD/AL

REVISIONS

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

TPP-1

SIGNIFICANT TREE PRESERVATION LIST							
Point	Species	EXEMPT (ROW,FLP,ESA)	EXEMPT REMOVED	NON-EXEMPT	NON-EXEMPT REMOVED	EXEMPT PRESERVED	NON EXEMPT PRESERVED
6102	OAK	14	14				
6103	OAK	11	11				
6104	ELM	7	7				
6105	OAK	8	8				
6106	OAK	6	6				
6107	OAK	10	10				
6118	ELM	9				9	
6119	OAK	11	11				
6120	ELM	6	6				
6121	ELM	8	8				
6122	ELM	7	7				
6123	OAK	19	19				
6124	ELM	10	10				
6125	ELM	6	6				
6126	ELM	7	7				
6127	OAK	14				14	
6143	OAK	6	6				
6144	OAK	8	8				
6145	OAK	12	12				
6146	OAK	13				13	
6147	OAK	11				11	
6148	OAK	15				15	
6149	OAK	9				9	
6150	OAK	13				13	
6151	OAK	12				12	
6152	OAK	17	17				
6153	OAK	14				14	
6154	OAK	15				15	
6155	OAK	13	13				
6166	OAK	11				11	
6167	ELM	7				7	
6179	OAK	22	22				
6182	OAK	14	14				
6183	ELM	9				9	
6185	OAK	9				9	
6186	OAK	6				6	
6218	OAK	21				21	
6220	HACKBERRY	11				11	
6221	PERSIMMON	6				6	
6226	ELM	12				12	
30101	OAK	8				8	
30102	OAK	9				9	
30267	OAK	18				18	
30268	OAK	15				15	
30277	OAK	16				16	
30278	OAK	20				20	
30304	OAK	16				16	
30357	HACKBERRY	11				11	
30358	HACKBERRY	14				14	
30359	HACKBERRY	13				13	
30360	OAK	22	22				
30361	OAK	15	15				
30362	OAK	12	12				
30363	OAK	18	18				
31432	HACKBERRY	14				14	
31479	OAK	17	17				
31480	OAK	11	11				
31481	OAK	14	14				
31506	OAK	9				9	
31507	OAK	10				10	
31515	OAK	23				23	
31522	OAK	14	14				
31523	OAK	10				10	
31728	OAK	16	16				
31735	OAK	20				20	
31802	MESQUITE	12				12	
31849	OAK	19				19	
31850	OAK	6				6	
31854	OAK	10				10	
31887	OAK	15	15				
31888	OAK	11				11	
31890	OAK	18	18				
31891	OAK	13	13				
31896	OAK	13				13	
31898	OAK	13	13				
31900	OAK	11				11	
32115	OAK	20				20	
32121	OAK	22	22				
50005	HACKBERRY	20				20	

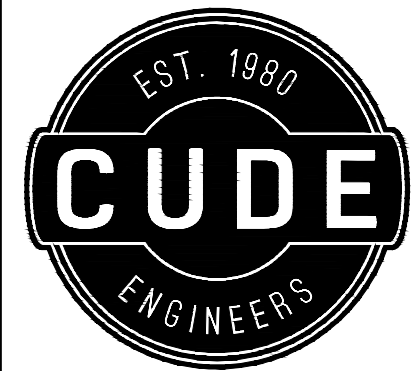
50053	CEDAR	23	23						
50064	CEDAR	9						9	
50068	CEDAR	8						8	
50210	OAK	14	14						
50211	OAK	12	12						
50212	CEDAR	8	8						
50213	OAK	8	8						
50215	OAK	20	20						
50289	MESQUITE	16						16	
50291	HACKBERRY	12						12	
50396	HACKBERRY	23	23						
50397	MESQUITE	23	23						
50398	HACKBERRY	11						11	
50400	HACKBERRY	11						11	
50402	CEDAR	16						16	
50403	HACKBERRY	13						13	
50404	HACKBERRY	18						18	
50405	HACKBERRY	12						12	
50812	MESQUITE	15						15	
50813	MESQUITE	18	18						
50943	OAK					18			18
51023	CEDAR	19						19	
51803	HACKBERRY	11						11	
51808	HACKBERRY	10						10	
51809	CEDAR	16	16						
71418	ELM	16						16	
71422	HACKBERRY	10						10	
71425	HACKBERRY	10						10	
71426	HACKBERRY	10						10	
71430	HACKBERRY	11						11	
71439	HACKBERRY	17						17	
71441	HACKBERRY	10						10	
71444	HACKBERRY	11						11	
71445	HACKBERRY	11						11	
71446	HACKBERRY	10						10	
71448	HACKBERRY	12						12	
71449	HACKBERRY	13						13	
71454	HACKBERRY	11						11	
71456	HACKBERRY	13						13	
71459	HACKBERRY	10						10	
71460	HACKBERRY	14						14	
71461	HACKBERRY	12						12	
71462	HACKBERRY	14						14	
71463	HACKBERRY	14						14	
71464	HACKBERRY	15						15	
71468	HACKBERRY	14						14	
71470	HACKBERRY	10						10	
71471	HACKBERRY	12						12	
71474	HACKBERRY	21	21						
71475	OAK	9						9	
71476	OAK	10						10	
71477	OAK	6						6	
71478	OAK	8						8	
71479	OAK	8						8	
71480	OAK	6						6	
71481	OAK	7						7	
71482	OAK	7						7	
71484	OAK	7						7	
71485	OAK	8						8	
71486	OAK	7						7	
71487	OAK	8						8	
71488	OAK	9						9	
Total	141	1754	628	18	0	1126	18		

HERITAGE TREE PRESERVATION LIST							
Point	Species	FLP PRESERVED	FLP REMOVED	ESA PRESERVED	ESA REMOVED	OUTSIDE OF FLP & ESA PRESERVED	OUTSIDE OF FLP & ESA REMOVED
6164	OAK						38
6180	OAK						28
6181	OAK						24
6219	OAK						38
30033	OAK						25
31711	OAK		24				
31889	OAK		24				
31899	OAK		24				
32116	OAK		29				
50035	CEDAR						24
50216	OAK						24
50290	MESQUITE		36				
50401	MESQUITE						45
50814	MESQUITE						26
51805	MESQUITE				24		
Total	15	0	137	0	24	0	272

TREE SURVEY METHOD PRESERVATION REQUIREMENTS AND CALCULATIONS			
	VALUE	UNIT	COMMENTS
Overall Preservation			
Total	1,399.00	in.	
Removed	543.00	in.	
Preserved	856.00	in.	61.19%
100 yr Floodplain			
Significant Small Species			
Total	-	in.	
Removed	-	in.	
Preserved	-	in.	80.00%
Required 80%			0.00% Mitigation
Significant Large Species			
Total	1,252.00	in.	
Removed	361.00	in.	
Preserved	891.00	in.	71.17%
Required 80%			8.83% Mitigation
Heritage			
Total	137.00	in.	
Removed	137.00	in.	
Preserved	-	in.	0.00%
Required 100%			100.00% Mitigation
VARIANCE REQUIRED FOR MITIGATION IN FLOODPLAIN			
Environmentally Sensitive Areas			
Significant Small Species			
Total	-	in.	
Removed	-	in.	
Preserved	-	in.	80.00%
Required 80%			0.00% Mitigation
Significant Large Species			
Total	116.00	in.	
Removed	21.00	in.	
Preserved	95.00	in.	81.90%
Required 80%			0.00% Mitigation
Heritage			
Total	24.00	in.	
Removed	24.00	in.	
Preserved	-	in.	0.00%
Required 100%			100.00% Mitigation
Outside of Floodplain (Upland & Environmentally Sensitive Areas)			
Significant Small Species			
Total (Non-Exempt)	-	in.	
Removed (Non-Exempt)	-	in.	
Preserved (Non-Exempt)	-	in.	25.00%
Required 25%			10.00% Mitigation
Significant Large Species			
Total (Non-Exempt)	147.00	in.	
Removed (Non-Exempt)	21.00	in.	
Preserved (Non-Exempt)	126.00	in.	85.71%
Required 25%			0.00% Mitigation 50.71% Provided Mitigation
Heritage			
Total	296.00	in.	
Removed	296.00	in.	
Preserved	-	in.	0.00%
Required 25%			25.00% Mitigation
Significant Large Species			
Total (Exempt)	-	in.	
Remove d (Exempt)	-	in.	
Preserved (Exempt)	-	in.	
Required (n/a)			0.00% Mitigation

PRESERVATION MITIGATION REQUIRED		
100 yr Floodplain - Protected Required Mitigation	111	in. (removed)
100 yr Floodplain - Heritage Required Mitigation	137	in. (removed)
(All tree species of Ash, Hackberry, Huisache, Ashe Juniper and Mesquite will be mitigated at 1:1.)	36	in. (removed x 1)
(All other heritage trees to be mitigated at 3:1)	303	in. (removed x 3)
Environmentally Sensitive Areas - Protected Required Mitigation	-	in. (removed)
Environmentally Sensitive Areas - Heritage Required Mitigation	24	in. (removed)
(All tree species of Ash, Hackberry, Huisache, Ashe Juniper and Mesquite will be mitigated at 1:1.)	24	in. (removed x 1)
(All other heritage trees to be mitigated at 3:1)	-	in. (removed x 3)
Outside of Floodplain - Protected Required Mitigation	-	in.
Outside of Floodplain - Heritage Required Mitigation	296	in. (removed)
(All tree species of Ash, Hackberry, Huisache, Ashe Juniper and Mesquite will be mitigated at 1:1.)	23.75	in. (removed x 1 x 25% CIP)
(All other heritage trees to be mitigated at 3:1)	150.75	in. (removed x 3 x 25% CIP)
Outside of Floodplain - Protected Provided Mitigation	89.25	in. (preserved)
Total - Protected Mitigation Required	111	in.
Total - Heritage Mitigation Required	537.50	in.
Total - Mitigation Provided	89.25	in.
TOTAL MITIGATION REQUIRED	559.25	in.
PRESERVATION MITIGATION PROVIDED		
Total Inches Planted	-	in.
TOTAL MITIGATION (In.) FROM THE "TOTAL PLANTED TREES" TABLE	-	in.
TOTAL MITIGATION		
Total Mitigation Required	559.25	in
Total Mitigation Provided (Planted)	-	in
Total inches to be paid	559.25	in
	\$ 111,850.00	(\$200 per inch)

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FOX FALLS OFFSITE GRAVITY SEWER
TREE PRESERVATION PLAN

DATE
09/25/2023
PROJECT NO.
03274.012
DRAWN BY
JRR
CHECKED BY
XV/TCD/AL

REVISIONS
1. 230807 - FINAL CANOPY NOT REQUIRED FOR CIP, TABLE AND CALCUS UPDATED
2. 230918 - REV