

HISTORIC AND DESIGN REVIEW COMMISSION

February 16, 2022

HDRC CASE NO: 2022-079
COMMON NAME: Brackenridge Park
ADDRESS: 3700 N ST MARYS ST
ZONING: R-6,HS
CITY COUNCIL DIST.: 2
LANDMARK: Individual Landmark
APPLICANT: Jamaal Moreno/City of San Antonio - PWD
OWNER: City of San Antonio - PWD
TYPE OF WORK: Removal of heritage and significant trees at top of bank and along the river
APPLICATION RECEIVED: January 28, 2022
60-DAY REVIEW: *Not applicable*

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to remove significant and heritage caliper trees located on the banks of the San Antonio River. This includes 3 heritage Live Oaks, 2 heritage Pecans, one heritage Bald Cypress, and one heritage Crepe Myrtle located along the river banks in the Lambert Beach area. It also includes a number of significant trees measuring as small as 2" in diameter and up. The scope of work is related to a 2017 Bond project that will be submitted for review and recommendation at a future date. The Planning Commission approved a variance to Tree Preservation requirements related to this request on January 26, 2022.

APPLICABLE CITATIONS:

Sec. 35-451. - Certificate of Appropriateness.

(a) Applications proposing work or changes to the exterior of a landmark, in a historic district, in a river improvement overlay district, viewshed protection or mission protection overlay district, or a property identified as an eligible resource or recommended for historic designation in accordance [with] subsection 35-453(a) shall require review for appropriateness with the provisions of this article, and any adopted design guidelines. In addition, the demolition or relocation of any structure designated historic shall also require review for appropriateness in the same manner. Such applications may include, but are not limited to:

- (1) Construction and reconstruction,
- (2) Alteration, additions, restoration and rehabilitation,
- (3) Relocation,
- (4) Stabilization,
- (5) Signage,
- (6) Landscaping,
- (7) Construction or reconstruction of a parking lot,
- (8) Construction or reconstruction of an appurtenance,
- (9) Acquisition or deaccessioning of artwork,
- (10) Demolition, and
- (11) Lighting, furniture and seating plan, and awnings and umbrellas within the Riverwalk area and in the public right-of-way.

Sec. 35-680. - Demolition of Historic Features in the River Improvement Overlay Districts.

Demolition of architectural features, artwork, furniture, and other items shown on the Robert Hugman plans as well as other historic Riverwalk construction dating back to Spanish Colonial times and including works by the WPA, the CCC and the National Youth Administration constitutes an irreplaceable loss to the quality, character, ambiance and atmosphere of the San Antonio Riverwalk in the river improvement overlay districts. Accordingly, these procedures provide criteria to prevent unnecessary damage to the unique character of the city's Riverwalk areas and character.

(a) Applicability. The provisions of this section apply to any application for demolition of important architectural features on or immediately adjacent to the river and or the Riverwalk in the river improvement overlay districts.

Items shown on the Robert Hugman Plans for the Riverwalk in "RIO-3."

....

Heritage Trees. Removal or damage to heritage trees such as large Cypress trees and other, old significant trees at top of bank or along the Riverwalk is prohibited in all river improvement overlay districts. Except where the tree is damaged due to disease, age or physical condition and must be removed for the safety reasons. Then with a recommendation from the city arborist, or the official urban forester, the historic and design review commission may grant approval for demolition.

....

(b) Unusual and Compelling Circumstances for Demolition of the Above. The historic and design review commission may consider unusual and compelling circumstances in order to approve a certificate of appropriateness for the demolition or removal of the items listed in section 35-680. It shall be guided in its decision by balancing the contribution of the object, site or structure to the character of the river improvement overlay districts with the special merit of the proposed replacement project.

The historic and design review commission, using criteria set forth in this article, shall determine whether unusual and compelling circumstances exist and shall be guided in its recommendation in such instances by the following additional considerations:

- A. The historic or architectural significance of the object, site, or structure;
- B. The importance of the object, site, or structure to the integrity and character of the river improvement overlay district;
- C. The difficulty or the impossibility of reproducing such an object, site, or structure because of its design, texture, material, detail, or unique location;
- D. Whether the object, site, or structure is one (1) of the last remaining examples of its kind in the neighborhood, the city, county, region, state, or nation;
- E. Whether reasonable measures can be taken to save the object, site, structure, or cluster from further deterioration, collapse, arson, vandalism or neglect.

FINDINGS:

- a) PROJECT BACKGROUND - The proposed tree removal plan is to prevent further damage to above-ground historic resources in conjunction with the proposed Brackenridge Park 2017 Bond project. The tree removal will not involve any below ground disturbance. There will also be a historic consultant onsite to monitor the removal of trees adjacent to above-ground historic resources. The Bond Project also includes preservation and rehabilitation of the Lambert Beach stone river walls, acequia walls and upper labor dam, preservation of the lily pond walls and water gates, rehabilitation and restoration of the pump house, and interpretation of archaeological and historic features.
- b) DESIGNATION & REVIEW – Brackenridge Park is a designated State Antiquities Landmark, National Register District, and locally designated landmark located within the River Improvement Overlay District (RIO-1). This portion of the park has been used prehistorically and historically for both utility and recreation as the site of 18th-Century acequia systems, 19th-Century Water Works raceway and Pump House, and 20th-Century Lambert Beach swimming area. The 2017 Bond Project is subject to review by the Texas Historic Commission and US Army Corps of Engineers for environmental impacts including impacts to designated cultural resources.
- c) TREES IN THE RIO – Generally, compliance with the City's tree preservation requirements is reviewed by the City Arborist and does not require additional review by the HDRC in most instances. Heritage trees and significant trees located at the top of the bank or along the River Walk are not allowed to be removed without HDRC approval per UDC 35-680. On a case-by-case basis, tree removal may be approved by the HDRC with a recommendation from the City Arborist (Development Services) and Forester (Parks Department) in instances of disease, age or physical condition, or if they must be removed for the safety reasons. The current conditions present a safety concern for the public and the area is currently not accessible.
- d) TREE PRESERVATION PLAN – The comprehensive tree preservation plan includes removal of non-protected and invasive species, declining trees, as well as significant and heritage trees located along the river bank which, due to their size and location, are impacting the channel walls. Other trees identified for removal impact the raceway, acequia, and other site features, and do not require HDRC approval. The large majority of significant and heritage size large species trees located in the project area are preserved in the plan including all of the heritage Bald Cypress trees located along the eastern bank. The City Arborist has recommended the appropriate mitigation in compliance with the City's tree preservation requirements including additional plantings throughout Brackenridge Park. The recommended plan required a variance in order to incorporate mitigation plantings outside of the immediately impacted area and received approval from the Planning Commission on January 26, 2022.
- e) CHANNEL WALLS – The Lambert Beach area is framed by stone walls as well as concrete stairs and landings which were constructed ca. 1925. Additional work in the area was likely completed by the National Youth Administration and Works Progress Administration between 1935 and 1940. Some portions immediately adjacent to the Pump House date to ca. 1877. Preliminary consultations with the reviewing agencies indicated a preference to preserve historic walls and site features in place while considering the significance of the trees as they relate to the

cultural landscape of the park. As proposed, the walls will be repaired in place and reconstructed using salvaged and matching materials where required. Historic photos suggest that numerous Live Oak trees were present when the 1925 improvement where made. Tree growth in addition to erosion and general deterioration have contributed to the failure of the existing walls. Significant bowing and structural separation are evident in the existing walls. These walls cannot be feasibly repaired without addressing the proximity of the trees. Trees noted for removal that immediately impact a historic feature and require monitoring during removal are noted in yellow on the attached plans. This includes 3 heritage Live Oaks, 2 heritage Pecans, one heritage Bald Cypress, and one heritage Crepe Myrtle located along the river bank in the Lambert Beach area.

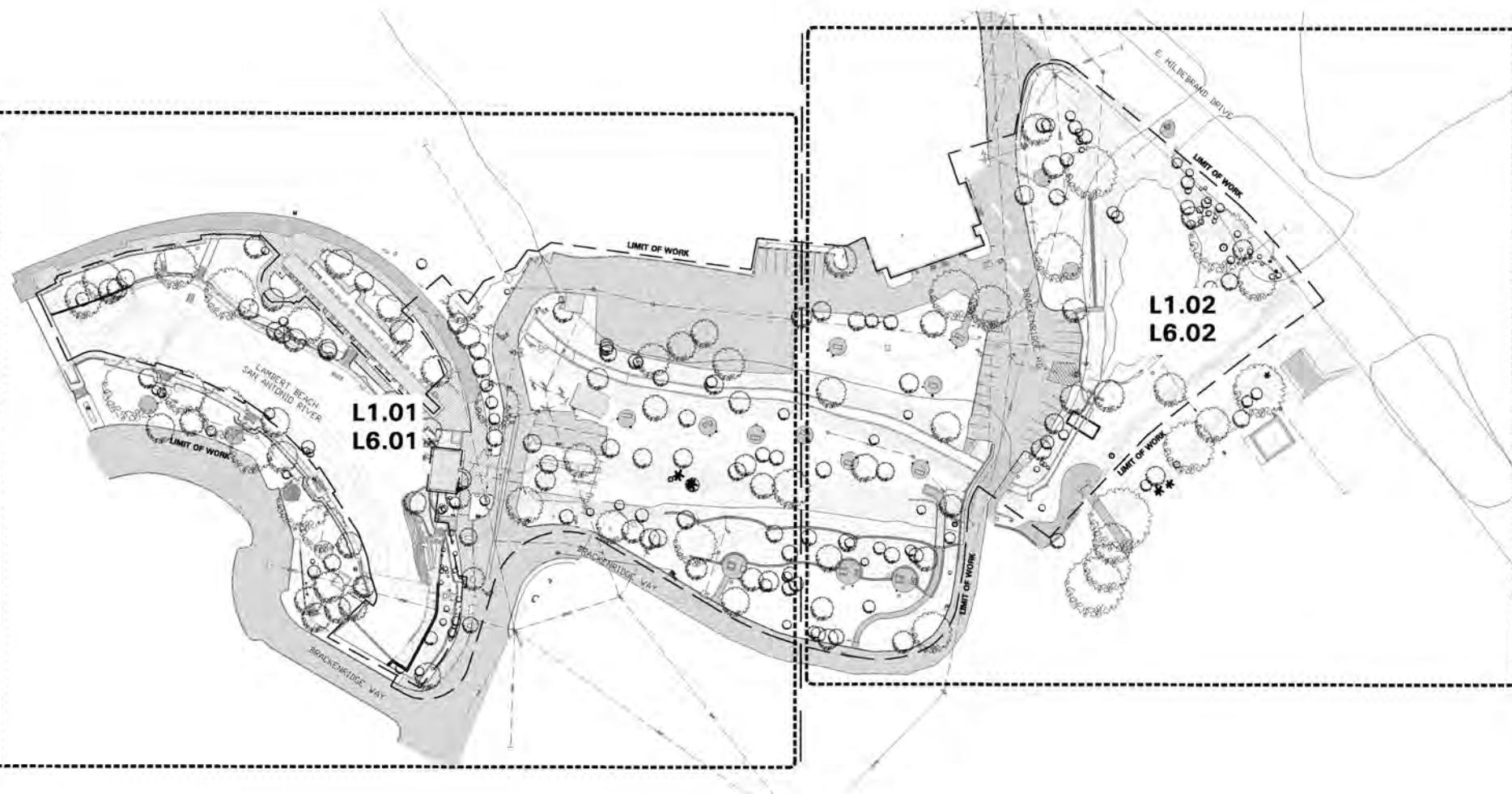
- f) DESIGN REVIEW COMMITTEE – The Design Review Committee held a site visit to review this request on February 9, 2022. Parks Department staff provided an overview of the 2017 bond project including primary goals that were previously identified through public input and the Brackenridge Park cultural landscape report. Commissioners present inquired whether alternatives to removal had been explored such as cutting back root structure or relocation. It was explained that, due to their proximity to the walls and root structure, alternatives to removal were not possible.

RECOMMENDATIONS:

Staff recommends approval of the proposed plan as recommended by the City Arborist. More than 400 new trees will be planted within Brackenridge Park, including 219 trees in the project vicinity.

CASE MANAGER

Cory Edwards



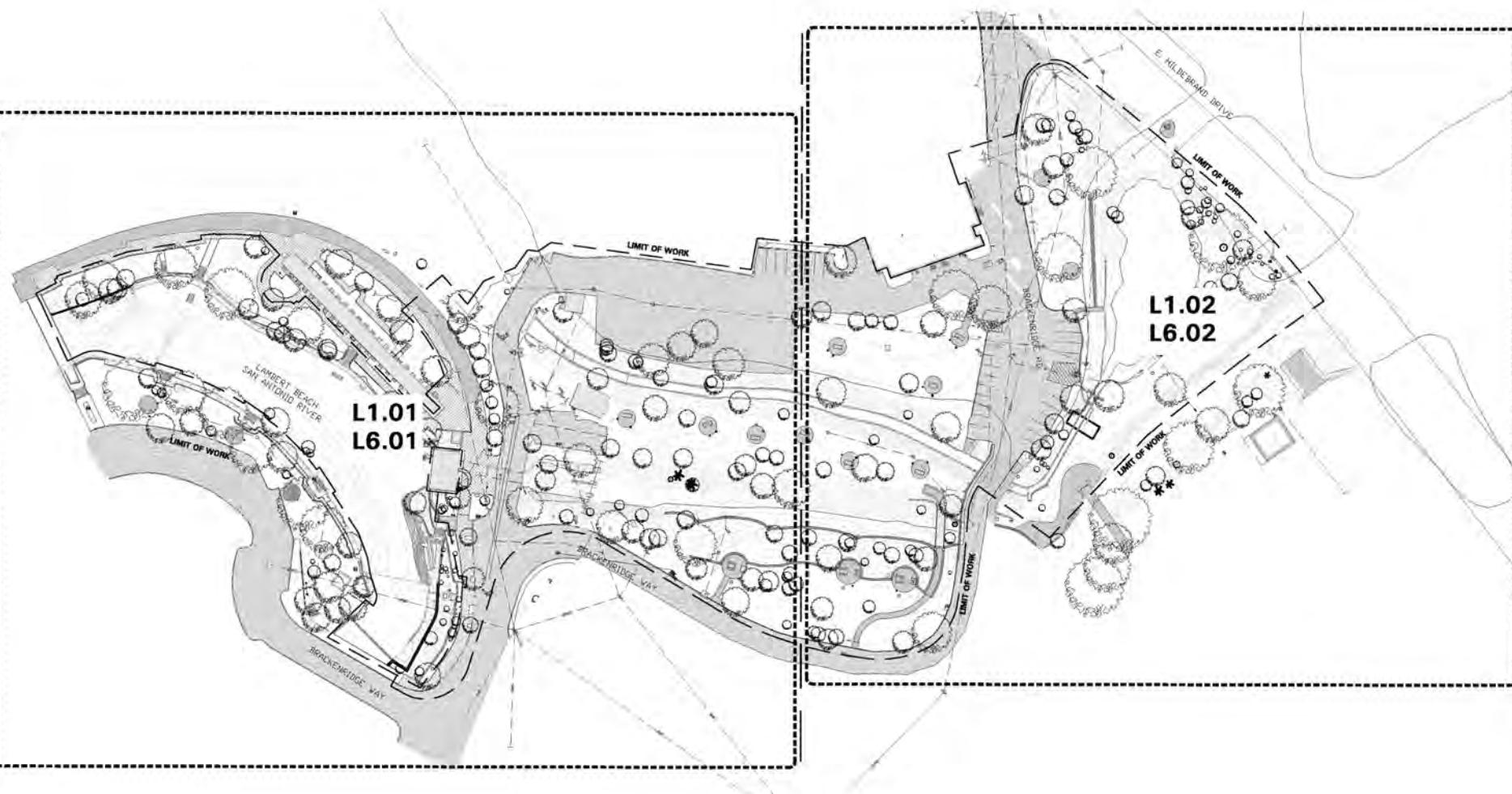
Brackenridge Park Tree Preservation & Removal

Trees Preserved.....	136 (30 heritage)
Native species Trees Removed.....	105 (10 heritage)
Invasive species/dead trees removed.....	23
Trees to be planted for improvement project....	200+
Trees to be planted elsewhere in the park.....	200-400

*For preservation/mitigation purposes within the floodplain and environmentally sensitive areas (ESAs), per UDC, all trees 2 inches in caliper and above are considered significant, large species trees 24 inches and above are considered Heritage.

Cultural Resources/Historic Structures Within the project area

1. Lambert Beach River Walls
2. Lambert Beach Steps
3. Brackenridge Pumphouse (Waterworks Bldg.)
4. Upper Labor Diversion Dam
5. Upper Labor Acequia
6. Restroom Building
7. Donkey Bridge



BRACKENRIDGE PARK

SAN ANTONIO, TX

Client:
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301, SAN ANTONIO TX, 78206

Stamp



Revisions

1
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5

Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CN05701

Scale

1 10 20

1" = 20'

Drawing Title

TREE PROTECTION AND
DEMOLITION PLAN

Drawing Number

L1.01

*2000 EMA



































BRACKENRIDGE PARK

2017 BOND PROGRAM IMPROVEMENTS

A PROJECT OF
THE CITY OF SAN ANTONIO
114 W. Commerce Street
11th Floor San Antonio, Texas 78205

ISSUE FOR TREE REMOVAL AND MITIGATION PERMIT

20 JANUARY 2022

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Stamp



Revision

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Date

20 JANUARY 2022

Phase

ISSUE FOR TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNO5701

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VICINITY MAP:



SITE: BRACKENRIDGE
PARK, SAN ANTONIO, TX

BRACKENRIDGE PARK

SAN ANTONIO, TX

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Revisions

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale

0 20' 40'
1" = 40'



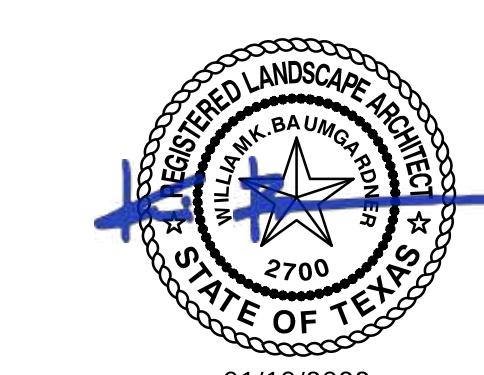
Drawing Title

TREE MITIGATION KEY MAP

Drawing Number

L0.01





TREE REMOVAL NOTES:

- "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" PER LEGEND WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN.
- DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
- IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EDM APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
- NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
- ALL TREES DESIGNATED FOR REMOVAL ARE TO BE REMOVED AT 3" ABOVE GRADE.
- NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.
- ALL TREES TO BE REMOVED SHALL BE MARKED PER TECHNICAL SPECIFICATIONS AND REMOVED UPON REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
- ALL TREES IN AREAS NOT MARKED FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE NOTED. ANY TREE THAT DOES NOT APPEAR ON THE TREE SURVEY SHALL BE VERIFIED WITH THE OWNER AND LANDSCAPE ARCHITECT TO DETERMINE STATUS OF REMOVAL.
- ALL TREES REMOVED EXCEPT THOSE DESIGNATED BY OWNER SHALL BE MULCHED ON SITE INCLUDING ALL LIMB/BRACH DEBRIS AND TRUNK. MULCH GRIND SHALL BE STORED ON SITE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR REMOVAL AND STORAGE INFORMATION.

EXISTING TREE MAINTENANCE NOTES:

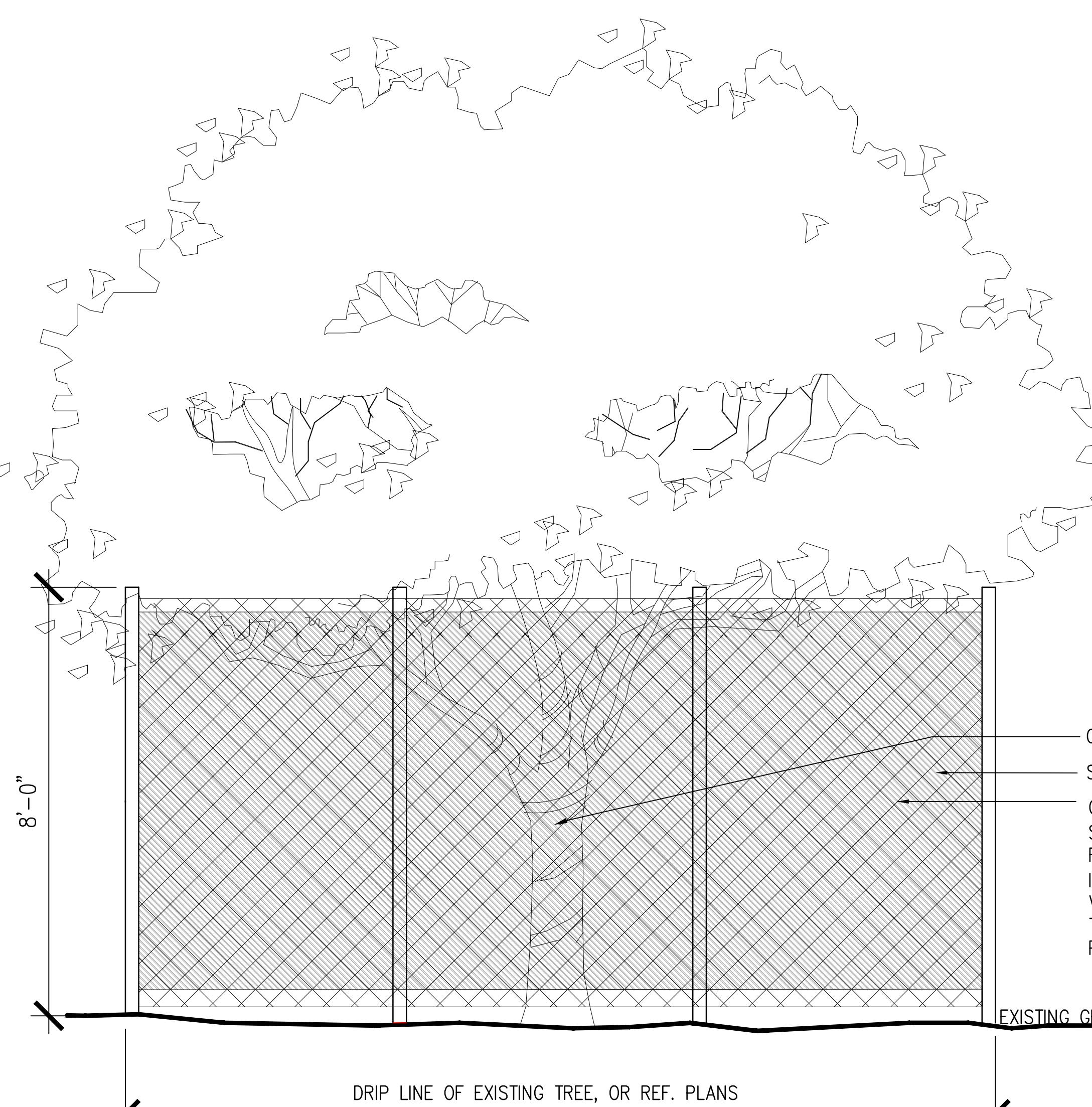
- TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER TECHNICAL SPECIFICATIONS ISSUED. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY SITE ARBORIST OR LANDSCAPE ARCHITECT.
- TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH NOTED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS NOTED BY ARBORIST.

GENERAL TREE PROTECTION NOTES:

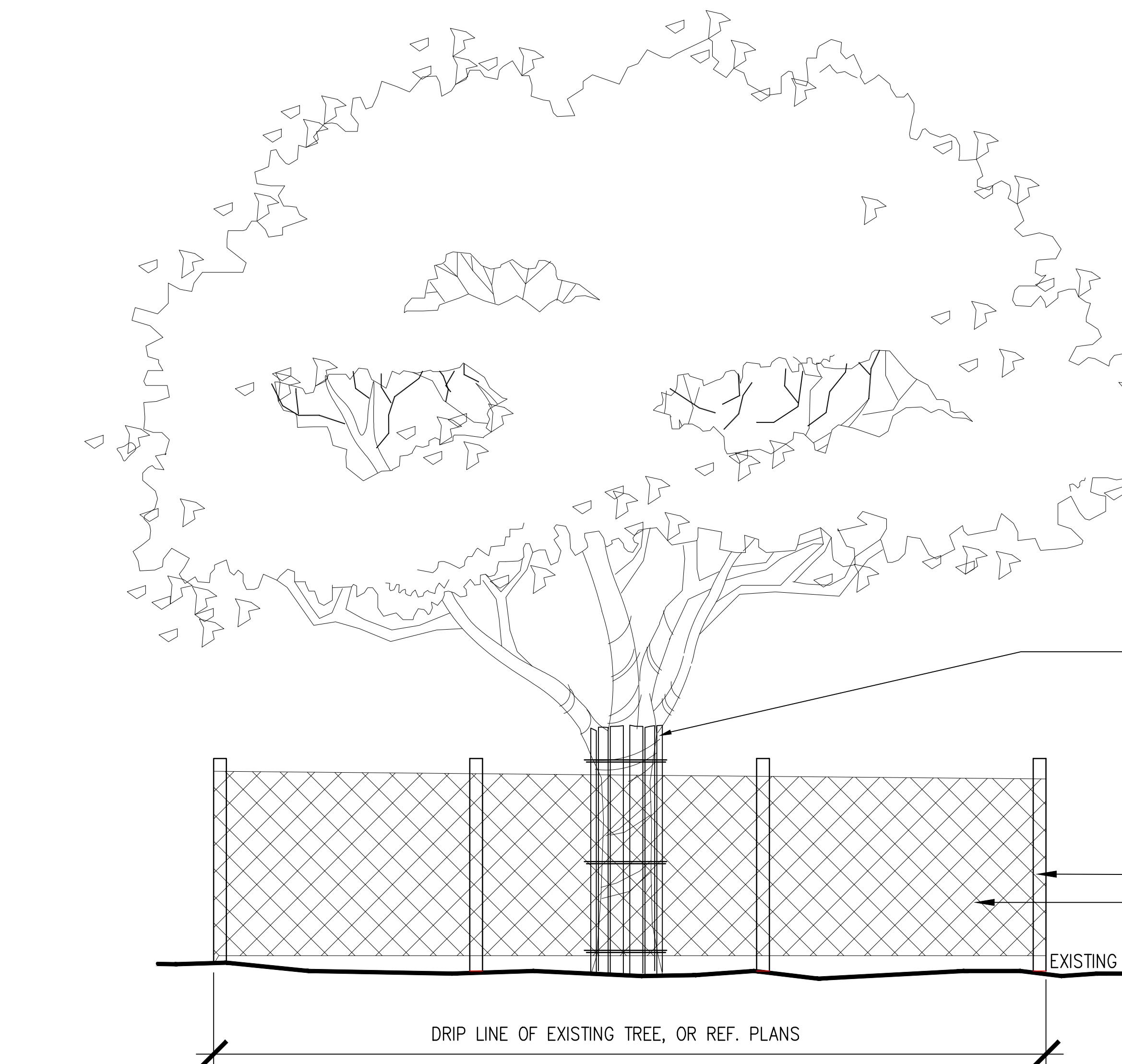
- ALL TREES INDICATED ON THE TREE PRESERVATION PLANS TO BE PROTECTED SHALL BE PROTECTED WITH TEMPORARY FENCING THROUGHOUT CONSTRUCTION.
- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND/OR SITE PREPARATION WORK (CLEARING OR GRUBBING).
- NO SOIL IS TO BE DISTURBED BY THIS SCOPE OF WORK.
- FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; FENCES SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (Drip Line) AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. FENCES MAY BE MOVED OR REMOVED TO ENABLE THE PROGRESS OF CONSTRUCTION ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
- WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8' (OR TO THE LIMITS OF THE LOWER BRANCHING) AS INDICATED ON TREE PRESERVATION PLANS.
- COVER THE ROOT ZONE AREA WITH 4" OF HARDWOOD MULCH, UNDER DIRECTION OF THE LANDSCAPE ARCHITECT, WHERE ROOT ZONES WITHIN Drip LINES ARE UNPROTECTED BY FENCING.
- ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SPECIFIED TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH SPECIFIED ORGANIC MATERIAL. THE OWNER AND LANDSCAPE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DAMAGE TO PRESERVED TREES.
- TREES HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROUGHLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER AS DIRECTED BY THE LANDSCAPE ARCHITECT. TREE CROWNS SHALL BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

GENERAL TREE PROTECTION NOTES (CONT.):

- NO LANDSCAPE TOPSOIL DRESSING GREATER THAN A 3" LAYER SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
- PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS BY A RECOGNIZED ARBORIST.
- ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
- COVER SEVERED ROOTS AND TREE SIDE OF TRENCH WITH 8 MIL BLACK VISQUENE TO FULL DEPTH OF TRENCH AND 6" OVER TOP. STAPLE VISQUENE IN PLACE. BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL, TO PROTECT ROOT ENDS FROM CONCRETE AND LIME.
- CORE AERATE AND DEEP ROOT FERTILIZE TREES BY PROBE AND WATER INJECTION OF DAVEY ARBOR GREEN FERTILIZER. REFER TO MANUFACTURER'S MAXIMUM RECOMMENDED RATES PER TREE CALIPER INCHES. INJECT 18"-24" DEEP 5'-0" O.C. THROUGHOUT DRIP-LINE OF TREE.
- CONTRACTOR SHALL MODIFY EXHAUST PIPES ON CONSTRUCTION EQUIPMENT AS NEEDED TO INSURE THAT TREE CROWNS ARE NOT DAMAGED FROM EXHAUST HEAT FROM VERTICAL EXHAUST PIPES ON TOP OF CONSTRUCTION EQUIPMENT.
- EQUIPMENT MUST NOT TOUCH UNDERSIDE OF TREE CROWNS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREE WORK/REPAIR TO ANY DAMAGE TO EXISTING TREES DURING THE CONTRACT PERIOD. DAMAGE TO ANY EXISTING TREES SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE A WRITTEN PROGRAM OF CORRECTIVE PRUNING AND TREE CARE TO REPAIR DAMAGE WITH THE NAME OF A QUALIFIED URBAN FORESTER OR ARBORIST FOR OWNER'S APPROVAL.
- PLANS ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED TREE FENCING LIMITS.
- ALL EXISTING TREES, IN DESIGNATED PROTECTED AREAS, MUST BE PRUNED TO AVOID DAMAGE BY EQUIPMENT DURING CONSTRUCTION OPERATIONS (REF. SPEC SECTION 02112)
- THESE NOTES ARE SUPPLEMENTARY TO SPECIFICATION SECTION 015639.



01 TREE FENCE
1 1/2" = 1'-0"



02 PERIMETER FENCING
1 1/2" = 1'-0"

BRACKENRIDGE PARK

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Date
20 JANUARY 2022
Phase
TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale
North

Drawing Title
COSA TREE MITIGATION
CALCULATIONS

Drawing Number

L0.03

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PROPOSED TREES

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	CALIPER PER THEE	QUANTITY	TOTAL CALIPER
•	EXISTING TREE					
	SHUMARD OAK	<i>Quercus shumardii</i>	200 GAL	6"	7	42
	TEXAS ASH	<i>Fraxinus pennsylvanica</i>	200 GAL	6"	6	36
	BALD CYPRESS	<i>Taxodium distichum</i>	200 GAL	6"	4	24
	PECAN	<i>Carya illinoensis</i>	200 GAL	6"	4	24
	PECAN	<i>Carya illinoensis</i>	100 GAL	4"	4	16
	LIVE OAK	<i>Quercus virginiana</i>	200 GAL	6"	31	186
	LIVE OAK	<i>Quercus virginiana</i>	100 GAL	4"	38	152
	CEDAR ELM	<i>Ulmus crassifolia</i>	200 GAL	6"	11	66
	CEDAR ELM	<i>Ulmus crassifolia</i>	100 GAL	4"	9	36
	ANACUA	<i>Ehretia anacua</i>	45 GAL	2"	23	46
	POSSUMHAW HOLLY	<i>Ilex decidua</i>	45 GAL	2"	52	104
	RUSTY BLACKHAW VIBURNUM	<i>Viburnum rufidulum</i>	45 GAL	2"	11	22
	YAUPON HOLLY	<i>Ilex vomitoria</i>	45 GAL	2"	19	38
TOTAL CALIPER IN NEW TREES					792	

MITIGATION SUMMARY

RIO 1 OVERLAY DISTRICT

REQUIRED MITIGATION

TOTAL FLOODPLAIN EXCESS / MITIGATION: 1645
TOTAL ESA EXCESS / MITIGATION: 88
TOTAL UPLAND EXCESS / MITIGATION: -100

GRAND TOTAL EXCESS / MITIGATION REQUIRED: 1633

MITIGATION PROVIDED

MITIGATION PROPOSED AS PROPOSED PLANTINGS (WITHIN PROJECT BOUNDARY) 792
MITIGATION PROPOSED IN FUTURE PROJECT PHASES (PARK-WIDE) 841
MITIGATION PROVIDED AS PAYMENT (\$200 per Inch) 0

MITIGATION BALANCE: 0

CITY OF SAN ANTONIO - UDC V-5-33-523 Tree Canopy Cover (Floodplain Excluded)

CANOPY MET WITH PRESERVED TREES - REFERENCE TP SERIES				NOTES
QTY.	SHADE VALUE	PERCENT	SOFT	SPECIES
1	1,200	100%	1,200	(1) Pecan
27	875	100%	23,625	(19) Cedar Elm, (8) Oak
	550	100%	-	
	275	100%	-	
28	TOTAL PRESERVED CANOPY			24,825 SF
	TOTAL PRESERVED CANOPY			35.3%
CANOPY MET WITH PROPOSED TREE PLANTINGS - REFERENCE L SERIES				NOTES
QTY.	SHADE VALUE	PERCENT	SOFT	SPECIES
8	1,200	90%	8,640.00	(8) Pecan
129	875	90%	101,587.50	(7) Shumard Oak, (5) Ash, (4) Bald Cypress, (69) Live Oak, (20) Cedar Elm, (23) Anacua
71	275	90%	17,572.50	(52) Possumhaw Holly, (19) Yaupon Holly
	TOTAL PROPOSED CANOPY			127,800 SF
	TOTAL PROPOSED CANOPY			181.9%
	TOTAL CANOPY PROVIDED			152,625 SF
	TOTAL CANOPY PROVIDED			217.2%
	PERCENT INCREASE FROM PRESERVED			252.6%

SMALL SPECIES TREES**			LARGE SPECIES TREES*											
TREE #	TAG #	SPECIES	DBH	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (3:1)	HERITAGE REMOVED (1:1)	PROTECTED CAL. INCHES EXEMPT	COMMENTS
016	2276	Willow	11					11						
017	2262	Willow	11					11						
018	2233	Oak	8	8										
019	2232	Chinaberry	7											
020	2224	Hackberry	12											
021	2260	Willow	13					13						
022	2221	Willow	19					19						
023	2258	Ash	8	8										
024	2253	Oak	54					54						
025	2222	TX. Mountain Laurel	3	3										
026	5135 (35135)	Oak	18					18						
027	2216	TX. Mountain Laurel	3	3										
028	2270	TX. Mountain Laurel	3	3										
029	3014	Hackberry	4	4				34						
030	2254	Elm	34											
031	2236	Oak	15					15						
032	2220	Cedar Elm	12					12						
033	2242	Willow	12					12						
034	2256	Willow	7					7						
035	2227	Willow	16					16						
036	2257	Willow	8					8						
037	2284	Willow	11					11						
038	2224	Ach	11	11										
039	2225	Willow	16					16						
040	7125	Willow	28					28						
043	2217	Cedar Elm	9					9						
044	2231	Cedar Elm	12					12						
045	2266	Cedar Elm	18					18						
046	2363	Crepe Myrtle	9					9						
047	6711	Bald Cypress	6					6						
048	6710	Willow	13											
049	2249	Pecan	27											
058	2265	Oak	26					26						
060	2268	Cedar Elm	26					26						
061	3403	Black Oak	8					8						
063	2285	Anqua	28					28						
066	2111	Pecan	29					29						
067	2200	Cedar Elm	14					14						
068	2350	Cedar Elm	10					10						
069	2377	Anqua	17					17						
070	2122	Cedar Elm	9					9						
071	2194	Cedar Elm	13					13						
072	3027	Oak	12					12						
073	3028	Oak	12					12						
074	2138	Cedar Elm	15					15						
075	2209	Oak	18					18						
076	10132	Hackberry	5	5										
077	2304 (10429)	Crepe Myrtle	17					17						
078	2267	Crepe Myrtle	22											
079	10430	Crepe Myrtle	14					14						
080	2379	Crepe Myrtle	17					17						
081	2369	Crepe Myrtle	11					11						
082	2349	Crepe Myrtle	11					11						
083	2303	Oak	39											
084	2321	Crepe Myrtle	10					10						
085	2323	Crepe Myrtle	15					15						
086	6000 (2331)	Bald Cypress	27											
087	6001 (2333)	Bald Cypress	21											
088	6002 (600)	Oak	28											
089	6003 (2382)	Bald Cypress	17											
090	6004 (601)	Oak	25											
091	3029	Crepe Myrtle	9											
092	2229	Oak	7											
093	2234	Bald Cypress	19					7						
094	2339	Chinese Tallow	12											
095	2334	Oak	32											
096	2338	Oak	34											
097	2310	Oak	22					22						
098	2364	Oak	18					18						
099	2335	Oak	16					16						
100	6006 (2306)	Oak	37											
101	2324	Oak	44											
102	2319	Cedar Elm	18											
103	2328	Bald Cypress	20											
104	6007 (602)	Pecan	8					8						
105	2366	Oak	33											
106	2358	Cypress	23					23						
107	2364	Pecan	18					18						
108	2392	Pecan	22					22						
109	2325	Crepe Myrtle	10											
111	3026	Yaupon	3											
112	2372	Crepe Myrtle	16											
113	2375	Pecan	20											
114	2374	Pecan	14											
115	2345	Cedar Elm	23											
116	2359	Pecan	25											
117	2314	Pecan	24											

BRACKENRIDGE PARK

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MEP

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Stamp



Revisions

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Date
20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale

North

Drawing Title

TREE INVENTORY

Drawing Number

L0.05

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Upland Tree Preservation Inventory

TREE #	TAG #	SPECIES	DBH	SMALL SPECIES TREES**				LARGE SPECIES TREES*				PROTECTED CAL. INCHES EXEMPT	COMMENTS
				SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (3:1)		
003	2248	Cedar Elm	17						17				
005	2243	Cedar Elm	20						20				Multi-trunk
008	5113 (35113)	Cedar Elm	6						6				
010	5114 (35114)	Cedar Elm	7						7				
011	2238	Cedar Elm	12						12				
012	2251	Cedar Elm	9						9				
013	2278	Cedar Elm	12						12				Multi-trunk;
014	2228	Cedar Elm	13						13				
015	2223	Oak	27							27			
050	2282	Oak	37							37			
051	1381	Oak	43							43			
052	2259	Cedar Elm	23						23				
053	1383	Cedar Elm	13						13				
054	1284	Cedar Elm	12						12				
055	2283	Cedar Elm	16						16				
056	2252	Cedar Elm	17						17				
057	2109	Cedar Elm	18						18				
062	3404	Live Oak	28							28			
TOTALS			313	0	0	0	0	178	17	135	0	0	0

No category to fall below 20% preservation;

Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC

Mitigation 1:1 for significant trees below minimum preservation requirements, 3:1 for heritage trees below 100% preservation

**Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for Heritage Trees

** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for heritage trees

UPLAND TREE PRESERVATION SUMMARY	
RIO 1 OVERLAY DISTRICT	
TOTAL CAL. INCHES ON SITE:	313
SIGNIFICANT TREES	HERITAGE TREES
CAL. INCHES ON SITE:	195
CAL. INCHES PRESERVED:	178
CAL. INCHES EXEMPT:	0
CLASS PRESERVATION RATIO	91%
REQUIRED PRESERVATION RATIO	40%
CLASS PRESERVATION RATIO:	1:1
CLASS EXCESS / MITIGATION:	-100
CAL. INCHES ON SITE:	135
CAL. INCHES PRESERVED:	135
CAL. INCHES REMOVED (1:1)	0
CAL. INCHES REMOVED (3:1)	0
CLASS PRESERVATION RATIO:	100%
CLASS EXCESS / MITIGATION (3:1):	0
CLASS EXCESS / MITIGATION (1:1):	0
TOTAL HERITAGE EXCESS / MITIGATION:	0
TOTAL EXCESS / MITIGATION:	-100

ESA Tree Preservation Inventory

TREE #	TAG #	SPECIES	DBH	SMALL SPECIES TREES**				LARGE SPECIES TREES*				PROTECTED CAL. INCHES EXEMPT	COMMENTS
				SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (3:1)		
001	2218	Cedar Elm	21						21				
002	2272	Oak	42						42				
004	2241	Cedar Elm	14						14				
006	2240	Cedar Elm	12						12				
007	2275	Oak	45						45				
009	5115 (35115)	Cedar Elm	13						13				
041	2247	Oak	25							25			
042	2264	Cedar Elm	17						17				
059	2267	Cedar Elm	17						17				Outside LOW, Not Counted
064	2131	Oak	24							24			
065	2147	Pecan	25						25				
216	3022	Oak	5						5				
TOTALS			260	0	0	0	0	86	38	111	25	0	17

No category to fall below 20% preservation;

Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC

Mitigation 1:1 for significant trees below minimum preservation requirements, 3:1 for heritage trees below 100% preservation

** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for all small trees regardless of size within the Floodplain and heritage trees are mitigated at 1:1

** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected regardless of size in the Floodplain and mitigated at 1:1 for heritage trees (72" DBH)

ESA PRESERVATION SUMMARY	
RIO 1 OVERLAY DISTRICT	
TOTAL CAL. INCHES ON SITE:	260
SIGNIFICANT TREES	HERITAGE TREES
CAL. INCHES ON SITE:	124
CAL. INCHES PRESERVED:	86
CAL. INCHES EXEMPT:	17
CLASS PRESERVATION RATIO	69%
REQUIRED PRESERVATION RATIO	80%
CLASS PRESERVATION RATIO:	1:1
CLASS EXCESS / MITIGATION:	13
CAL. INCHES ON SITE:	136
CAL. INCHES PRESERVED:	111
CAL. INCHES REMOVED (3:1)	25
CAL. INCHES REMOVED (1:1)</	

BRACKENRIDGE PARK

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MEP

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Revisions

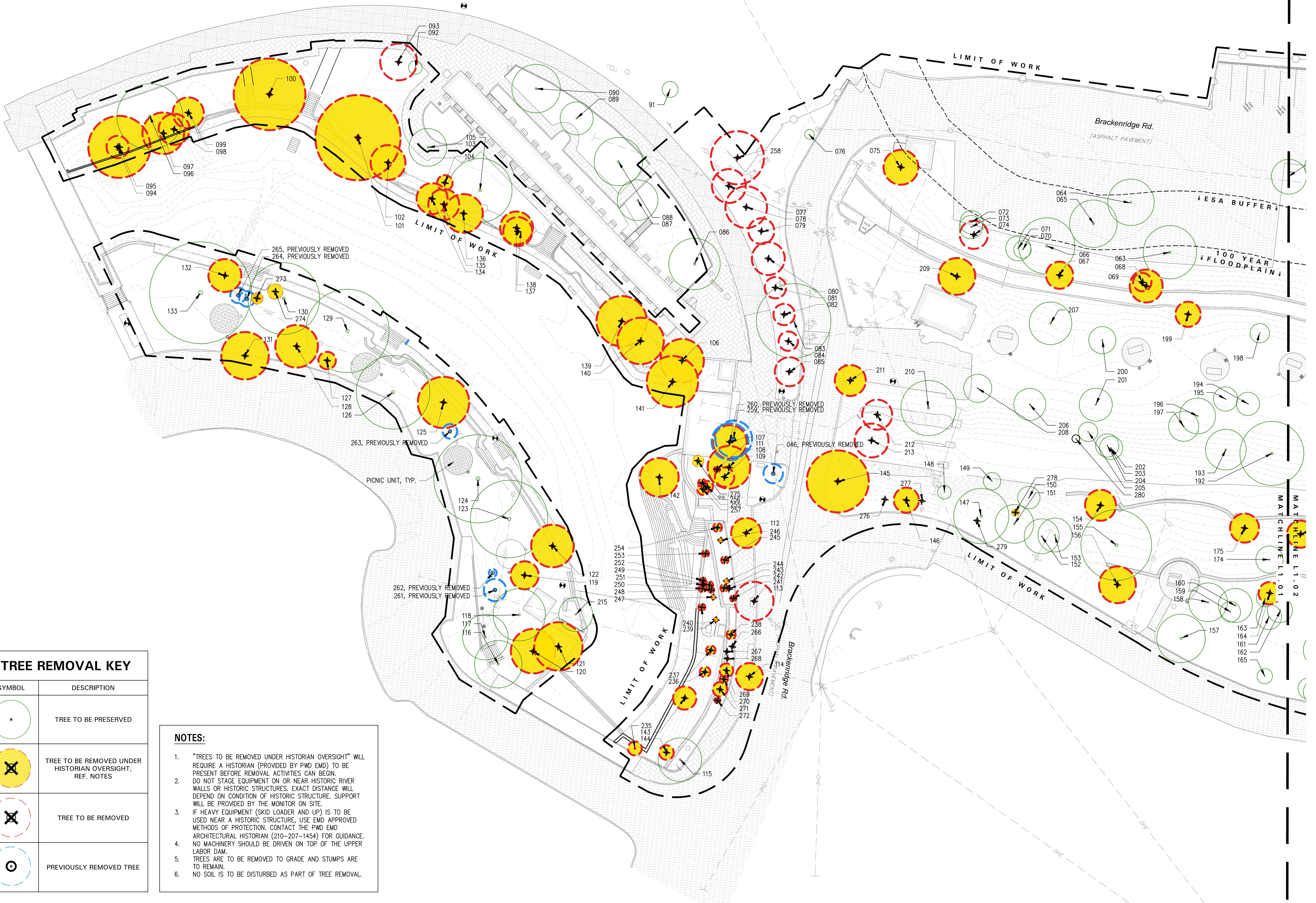
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TREE REMOVAL KEY

SYMBOL	DESCRIPTION
●	TREE TO BE PRESERVED
● with X	TREE TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REF. NOTES
● with red border and X	TREE TO BE REMOVED
● with blue border and X	PREVIOUSLY REMOVED TREE

NOTES:

- "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN.
- DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
- IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EMD APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
- NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
- TREES ARE TO BE REMOVED TO GRADE AND STUMPS ARE TO REMAIN.
- NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.



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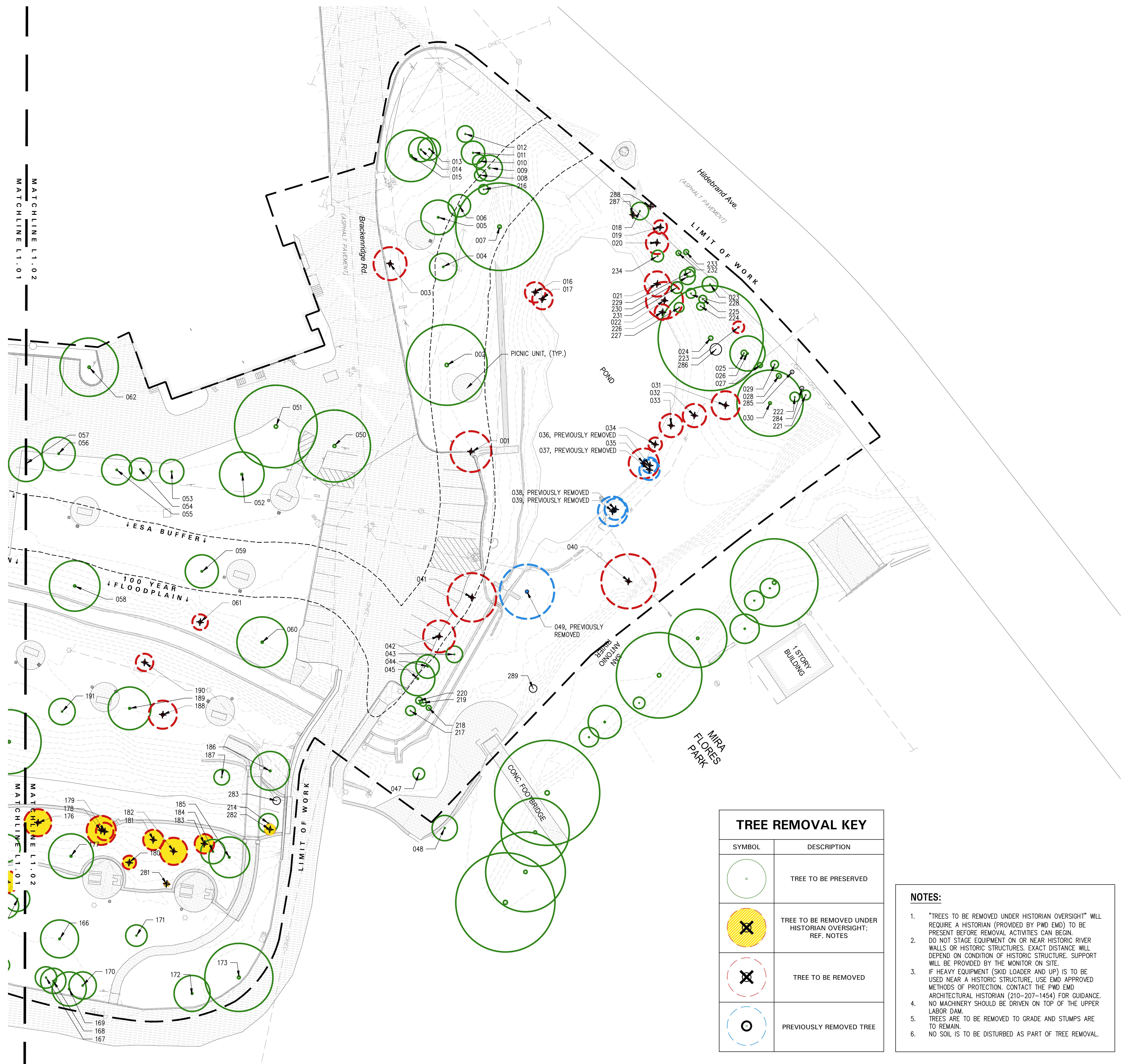
Phase
TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale
0 10' 20'
1' = 20'
North

Drawing Title
TREE PROTECTION AND
DEMOLITION PLAN

Drawing Number

L1.02



BRACKENRIDGE PARK

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STRUCTURAL ENGINEER

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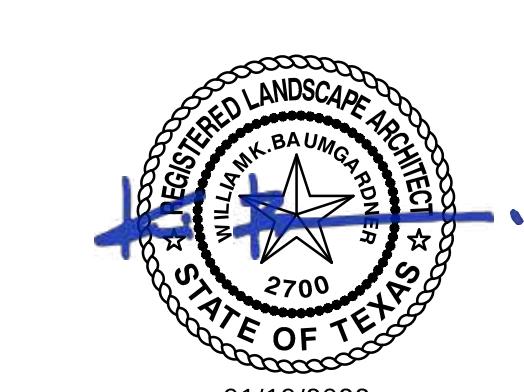
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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.03



001

CEDAR ELM | 21
TAG #2218
PRESERVED



002

OAK | 42
TAG #2272
PRESERVED



003

CEDAR ELM | 17
TAG #2248
REMOVED



004

CEDAR ELM | 14
TAG #2241
PRESERVED



005

CEDAR ELM | 20
TAG #2240
PRESERVED



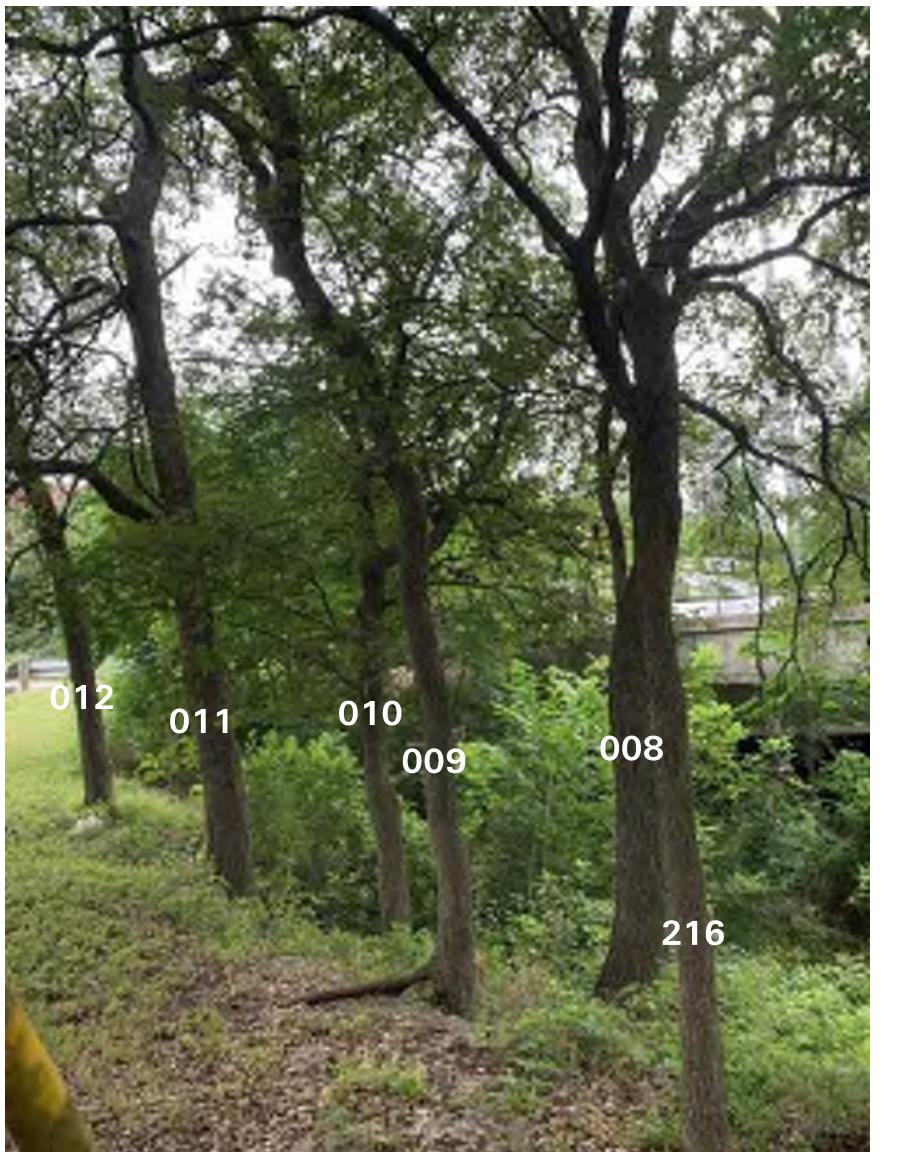
006

CEDAR ELM | 12
TAG #2240
PRESERVED



007

LIVE OAK | 45
TAG #2275
PRESERVED



008

CEDAR ELM | 6
TAG #5113
PRESERVED



009

CEDAR ELM | 13
TAG #5115
PRESERVED



010

CEDAR ELM | 7
TAG #5114
PRESERVED



011

CEDAR ELM | 12
TAG #2238
PRESERVED



012

CEDAR ELM | 9
TAG #2251
PRESERVED



013

CEDAR ELM | 12
TAG #2278
PRESERVED



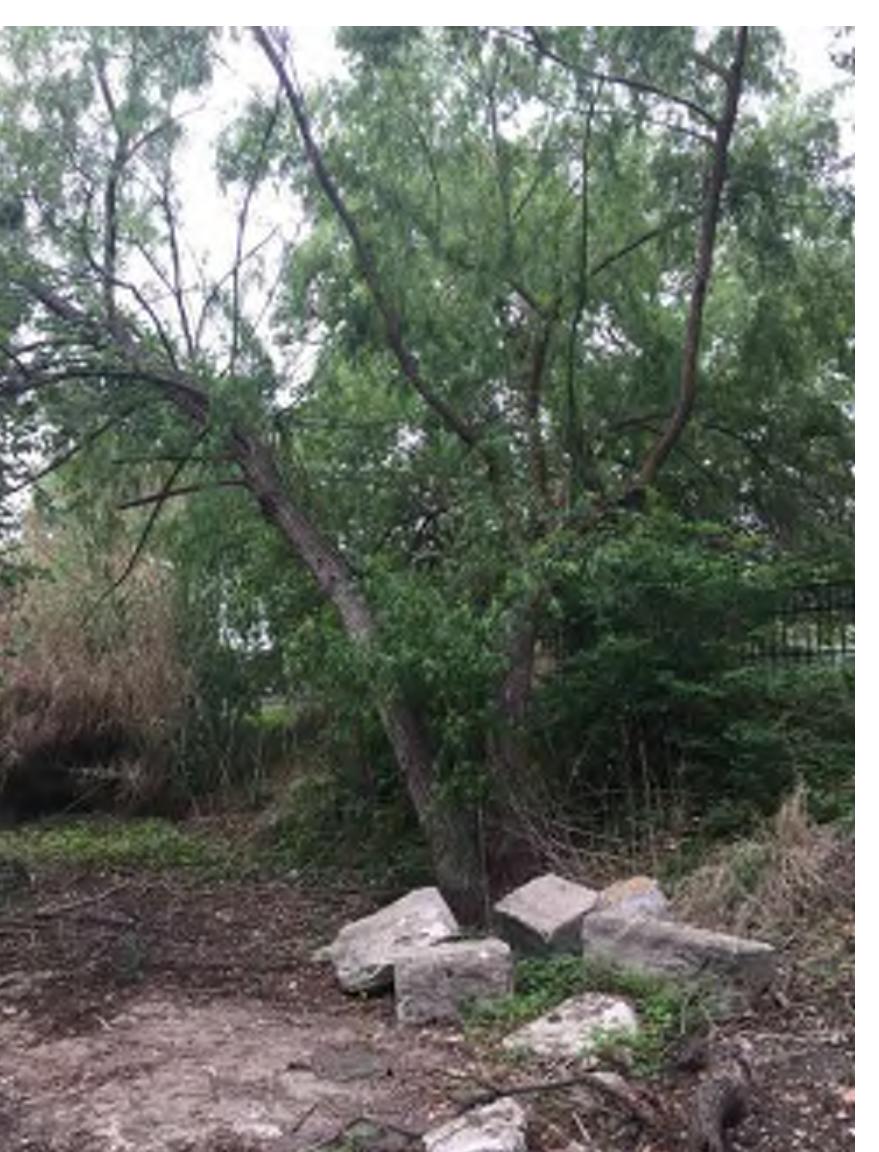
014

CEDAR ELM | 13
TAG #2278
PRESERVED



015

OAK | 27
TAG #2223
PRESERVED



016

WILLOW | 11
TAG #2238
PRESERVED



017

WILLOW | 11
TAG #2262
REMOVED



018

OAK | 8
TAG #2233
PRESERVED



019

CHINABERRY | 7
TAG #2232
INVASIVE; REMOVED



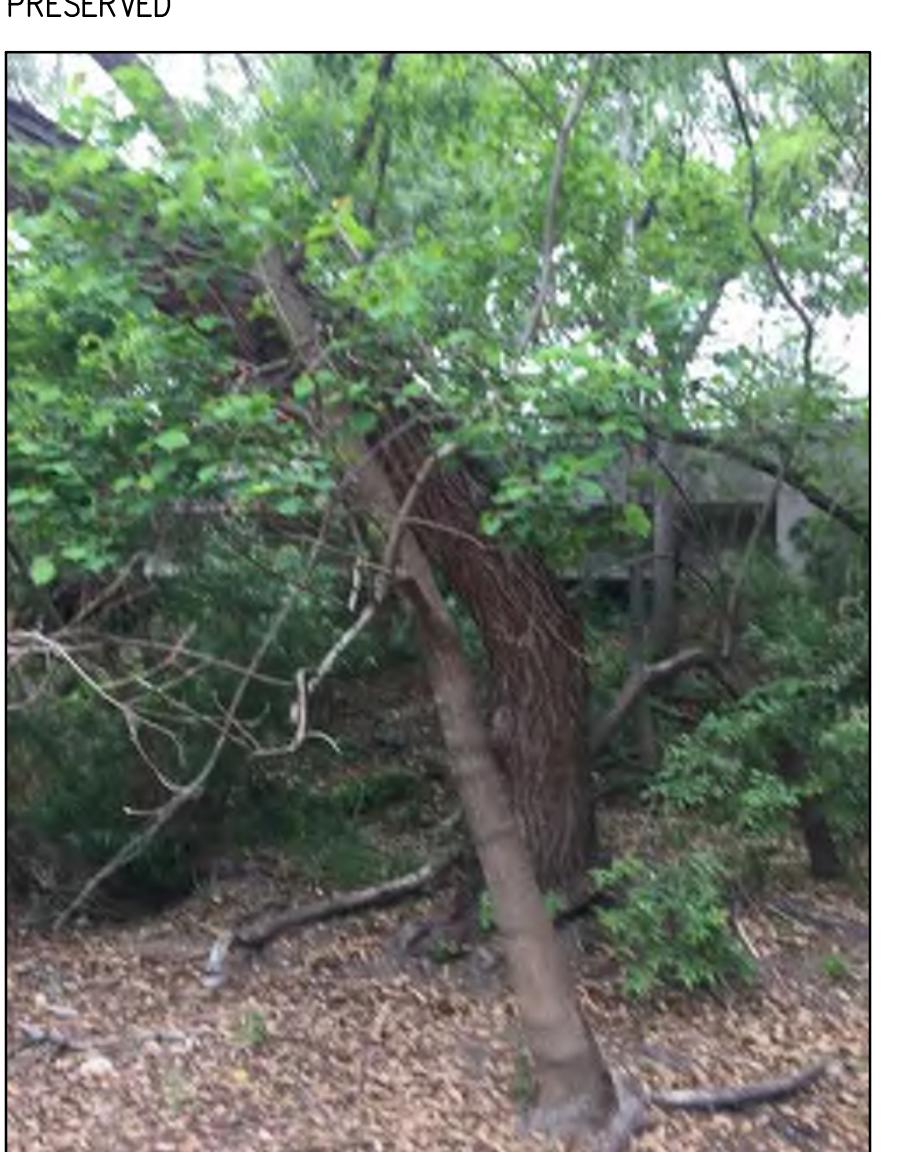
020

HACKERBERRY | 12
TAG #2224
INVASIVE; REMOVED



021

WILLOW | 19
TAG #2260
REMOVED



022

WILLOW | 19
TAG #2221
REMOVED



023

ASH | 8
TAG #2233
PRESERVED



024

OAK | 54
TAG #2253
PRESERVED



025

TEXAS MOUNTAIN LAUREL
TAG #2222
PRESERVED



026

OAK | 18
TAG #5135
PRESERVED



027

TEXAS MOUNTAIN LAUREL | 3
TAG #2216
PRESERVED



028

TEXAS MOUNTAIN LAUREL | 3
TAG #2216
PRESERVED

BRACKENRIDGE PARK

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Revisions

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.04



029

HACKBERRY | 4
TAG # 3014
PRESERVED



030

CEDAR ELM | 15
TAG #2254
PRESERVED



031

OAK | 15
TAG #2236
REMOVED



032

CEDAR ELM | 12
TAG #2220
REMOVED



033

WILLOW | 12
TAG #2242
REMOVED



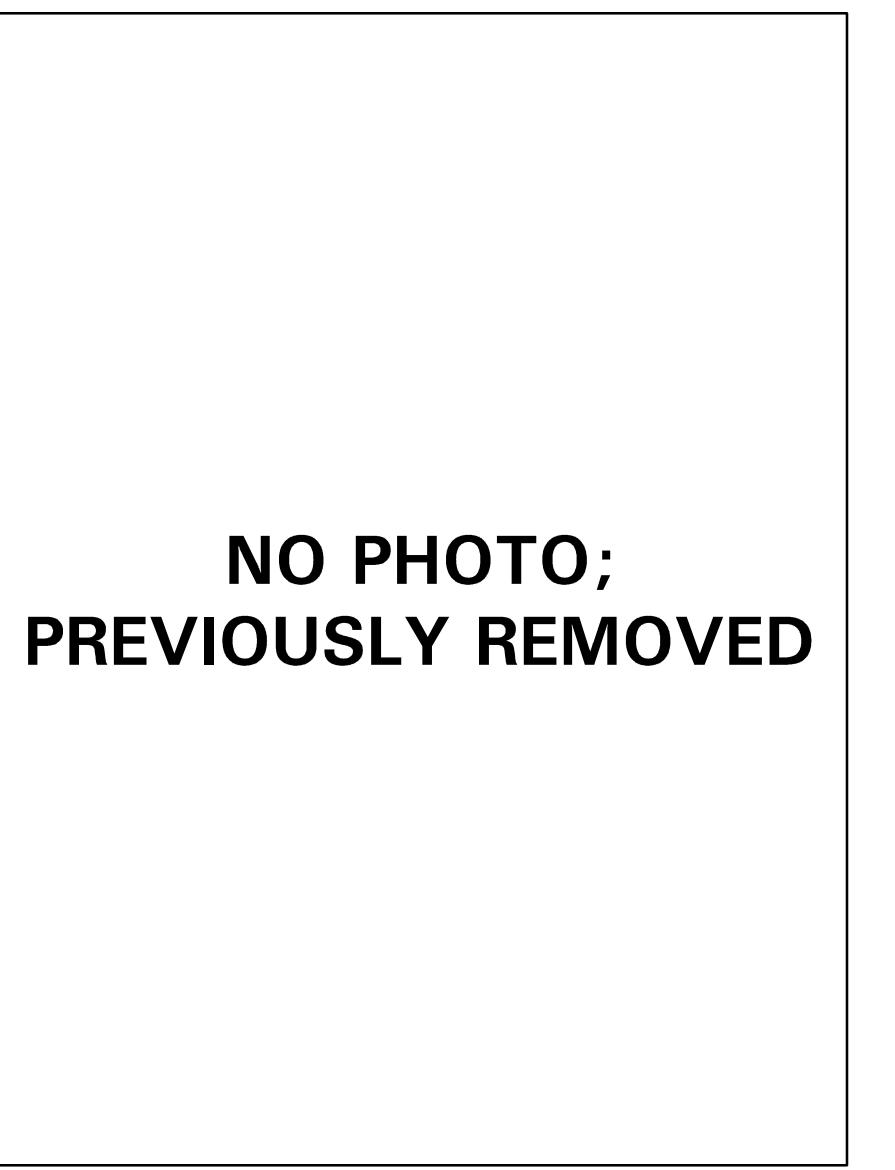
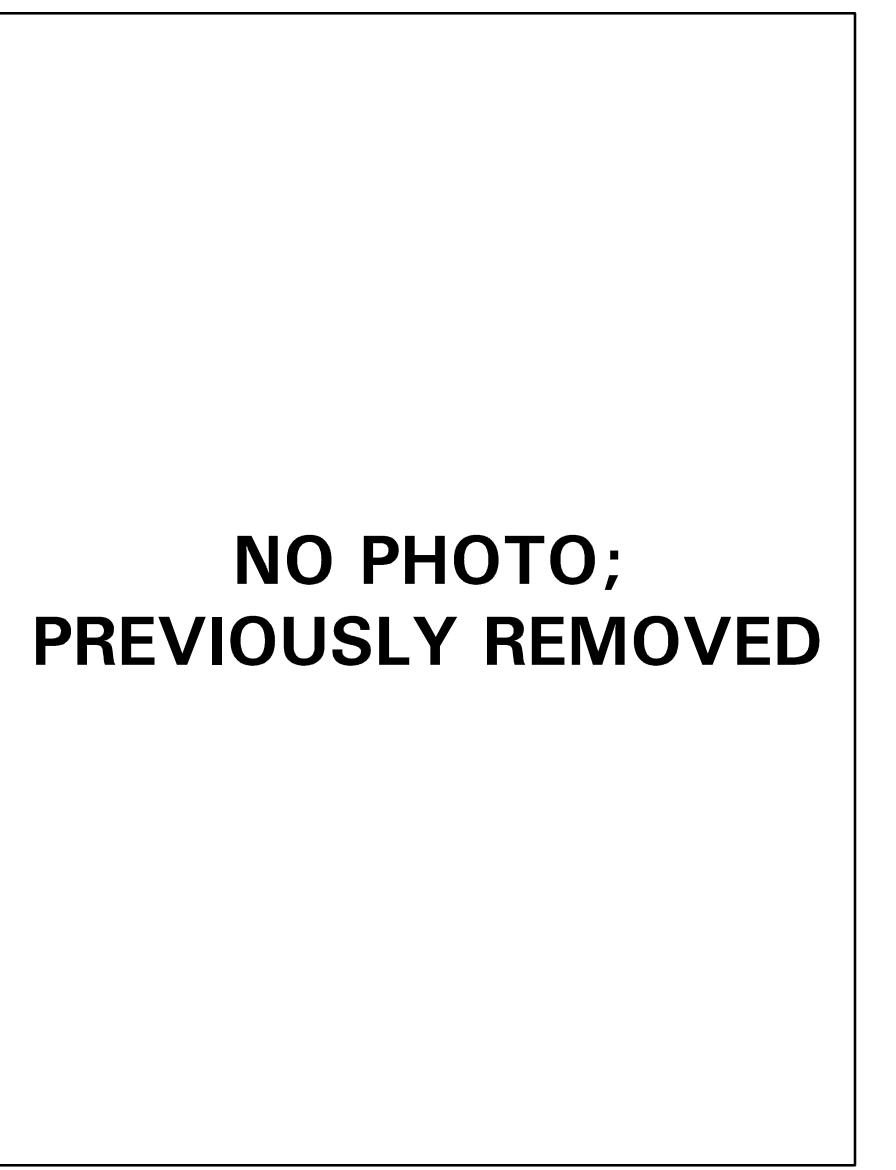
034

WILLOW | 7
TAG #2256
REMOVED



035

WILLOW | 16
TAG #2257
REMOVED



036

WILLOW | 8
TAG #2227
REMOVED; PREVIOUSLY REMOVED



037

WILLOW | 11
TAG #2284
REMOVED; PREVIOUSLY REMOVED



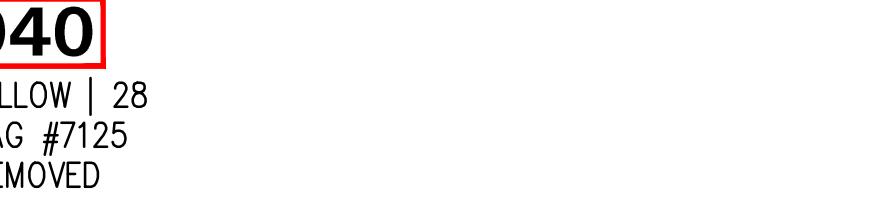
038

ASH | 11
TAG #2274
REMOVED; PREVIOUSLY REMOVED



039

WILLOW | 16
TAG #2225
REMOVED; PREVIOUSLY REMOVED



040

WILLOW | 28
TAG #7125
REMOVED



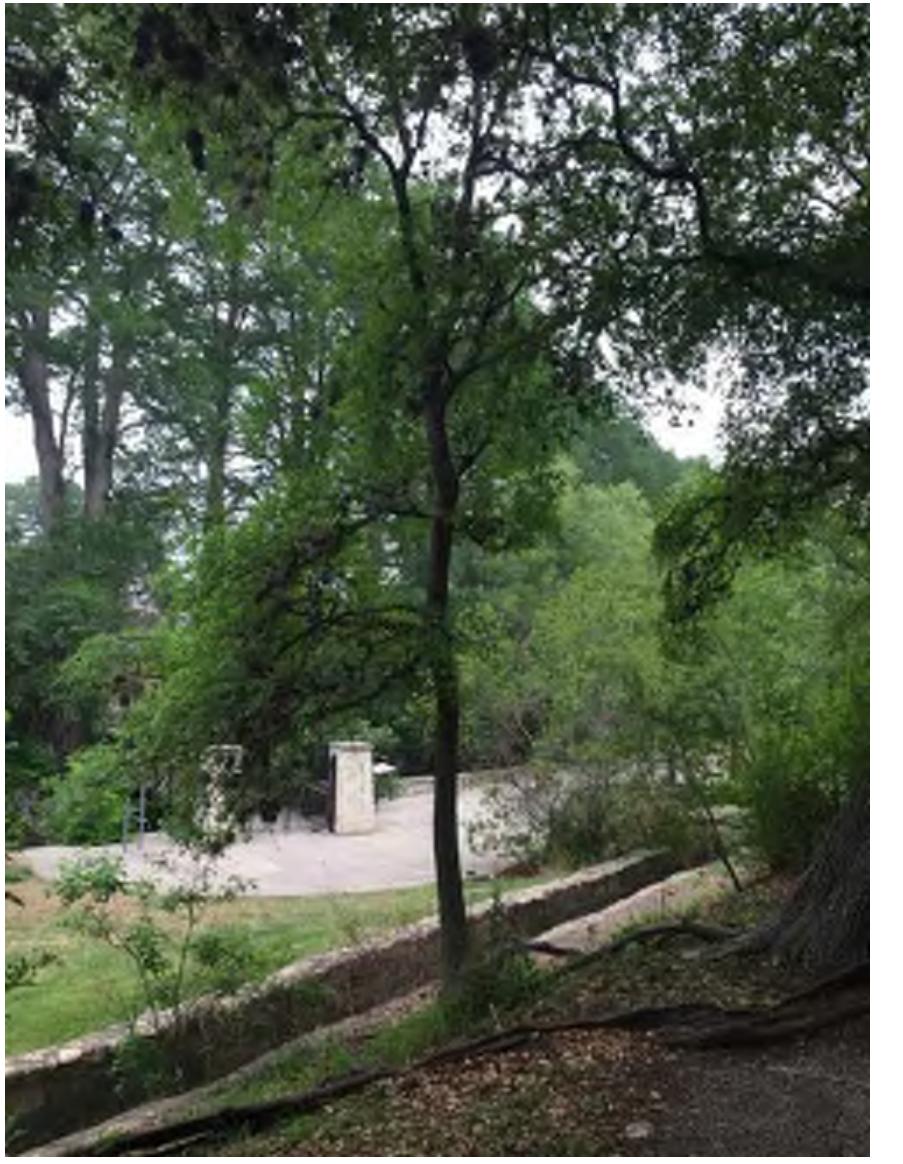
041

OAK | 28
TAG #2247
PRESERVED



042

CEDAR ELM | 17
TAG #2264
PRESERVED



043

CEDAR ELM | 17
TAG #2217
PRESERVED



044

CEDAR ELM | 12
TAG #2231
PRESERVED



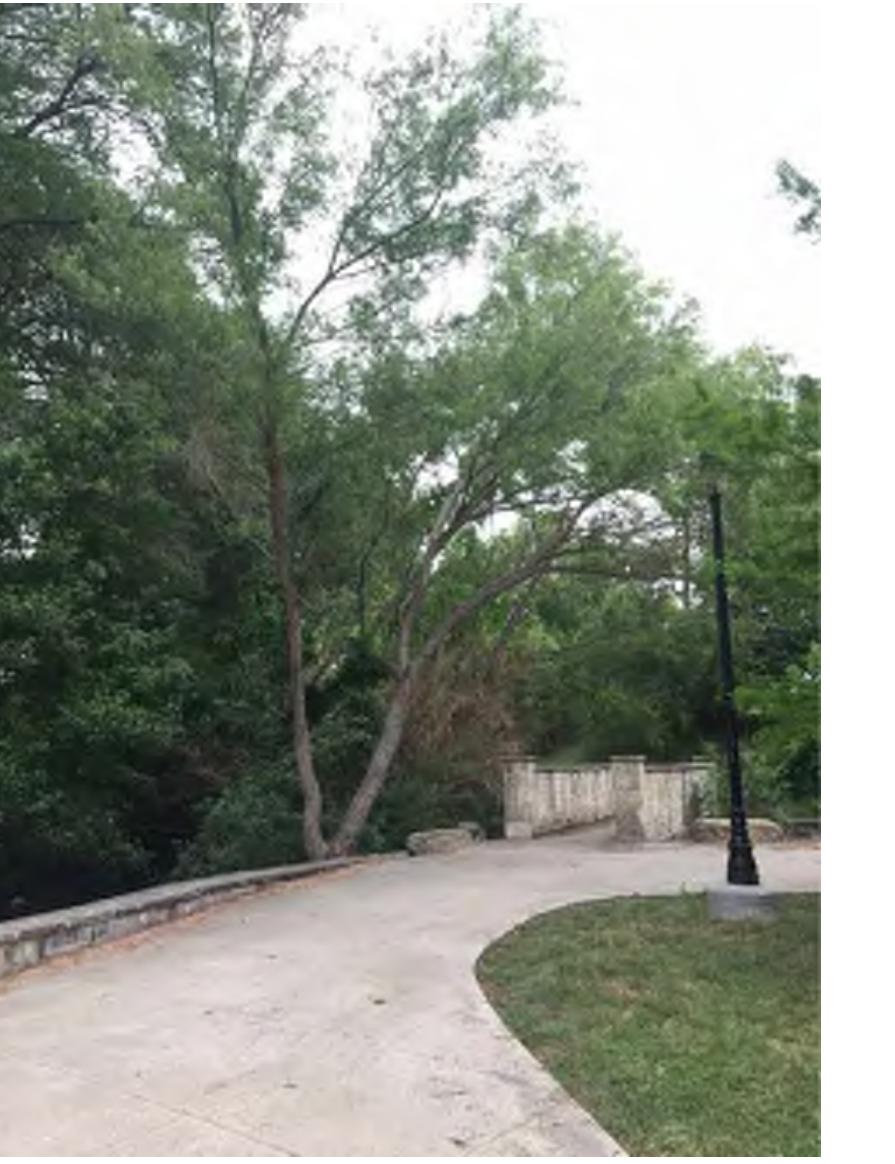
045

CEDAR ELM | 18
TAG #2266
PRESERVED



047

BALD CYPRESS | 6
TAG #6711
PRESERVED



048

WILLOW | 13
TAG #6710
PRESERVED; OUTSIDE LOW



050

OAK | 37
TAG #2249
PRESERVED



051

OAK | 43
TAG #1381
PRESERVED



052

CEDAR ELM | 23
TAG #2259
PRESERVED



053

CEDAR ELM | 13
TAG #1383
PRESERVED



054

CEDAR ELM | 12
TAG #1384
PRESERVED



055

CEDAR ELM | 16
TAG #2283
PRESERVED



056

CEDAR ELM | 17
TAG #2252
PRESERVED



057

CEDAR ELM | 18
TAG #2109
PRESERVED

Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.04

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TREE SURVEY

Drawing Number

L1.05



058

OAK | 26
TAG #2285
PRESERVED



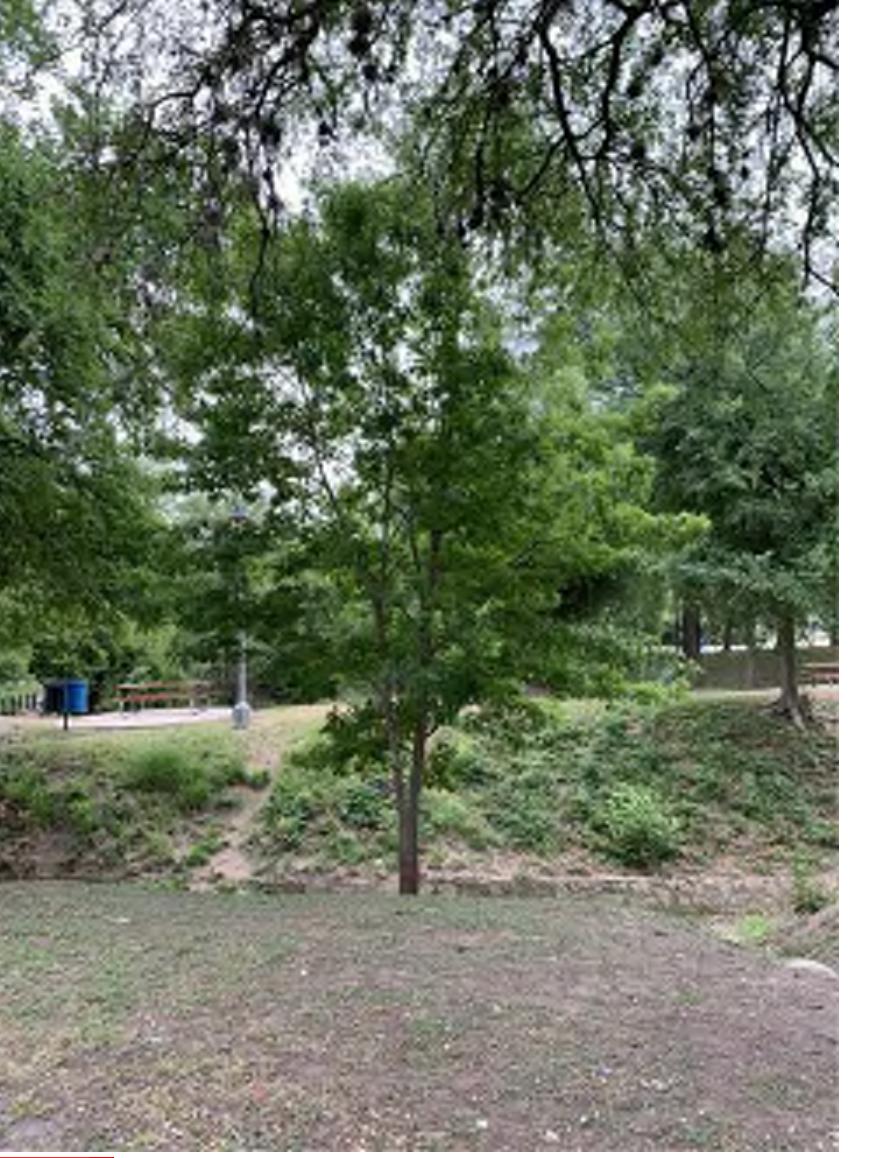
059

CEDAR ELM | 17
TAG #2267
PRESERVED



060

CEDAR ELM | 26
TAG #2268
PRESERVED



061

BLACK OAK | 8
CITY TAG 3403
REMOVED



062

TREE SPECIES | SIZE
CONDITION
CITY TAG #



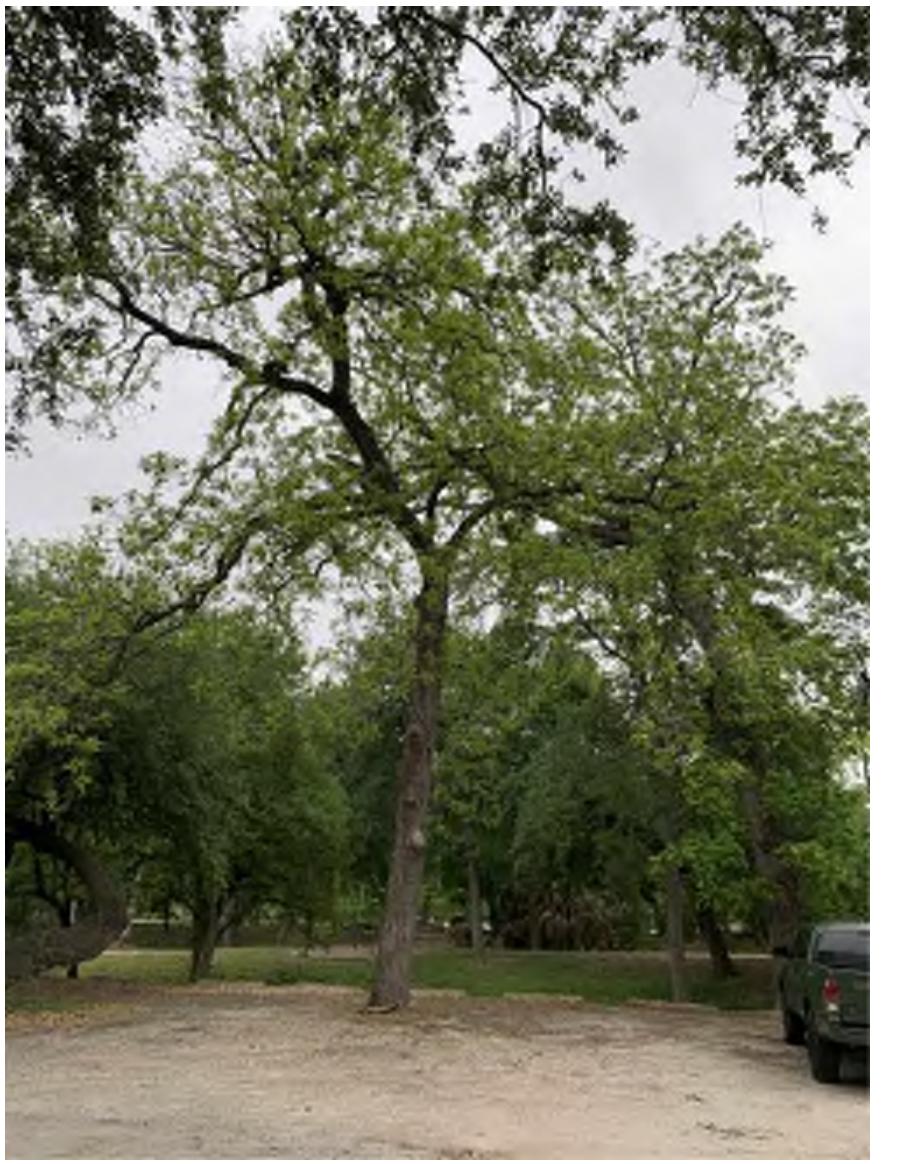
063

ANAQUA | 28
TAG #2285
PRESERVED



064

OAK | 24
TAG #2131
PRESERVED



065

PECAN | 25
TAG #2147
PRESERVED



066

PECAN | 29
TAG #2111
PRESERVED



067

CEDAR ELM | 14
TAG #2200
REMOVED



068

CEDAR ELM | 10
TAG #2350
REMOVED



069

ANAQUA | 28
TAG #2377
REMOVED



070

CEDAR ELM | 9
TAG #2122
PRESERVED



071

CEDAR ELM | 13
TAG #2194
PRESERVED



072

OAK | 18
TAG #3027
PRESERVED



073

OAK | 12
TAG #3028
PRESERVED



074

CEDAR ELM | 15
TAG #2138
REMOVED



075

OAK | 18
TAG #2209
REMOVED



076

HACKBERRY | 5
TAG #10132
PRESERVED



077

CREPE MYRTLE | 17
TAG #2304
REMOVED



078

CREPE MYRTLE | 22
TAG #2357
REMOVED



079

CREPE MYRTLE | 14
TAG #10430
REMOVED



080

CREPE MYRTLE | 17
TAG #2379
REMOVED



081

CREPE MYRTLE | 11
TAG #2369
REMOVED



082

CREPE MYRTLE | 11
TAG #2349
REMOVED



083

OAK | 39
TAG #2303
PRESERVED



084

CREPE MYRTLE | 10
TAG #2321
REMOVED



085

CREPE MYRTLE | 15
TAG #2323
REMOVED

BRACKENRIDGE PARK

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Stamp



Revisions

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.06



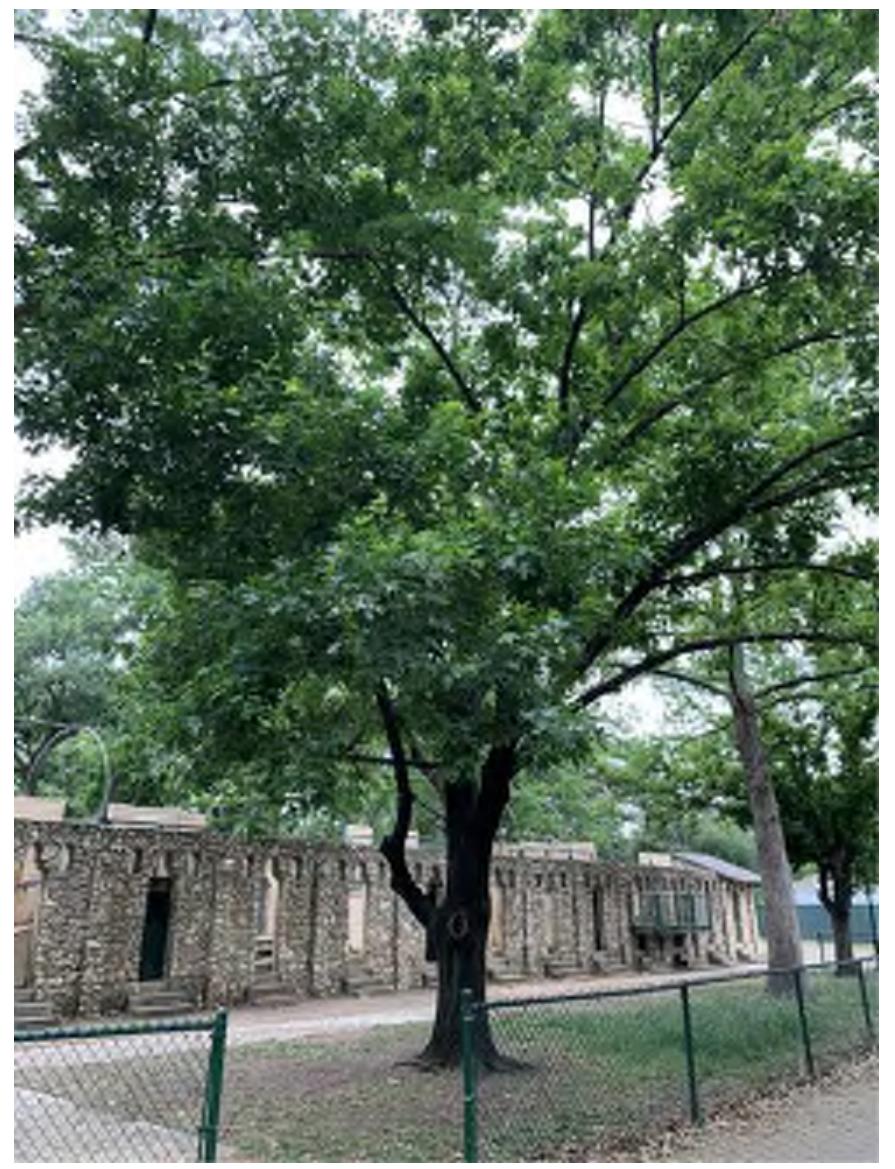
086

BALD CYPRESS | 27
TAG #6000
PRESERVED; OUTSIDE LOW



087

BALD CYPRESS | 21
TAG #6001
PRESERVED; OUTSIDE LOW



088

OAK | 23
TAG #6002
PRESERVED; OUTSIDE LOW



089

BALD CYPRESS | 17
TAG #6003
PRESERVED, OUTSIDE LOW



090

OAK | 25
TAG #6004
PRESERVED; OUTSIDE LOW



091

CREPE MYRTLE | 9
TAG #6029
PRESERVED; OUTSIDE LOW



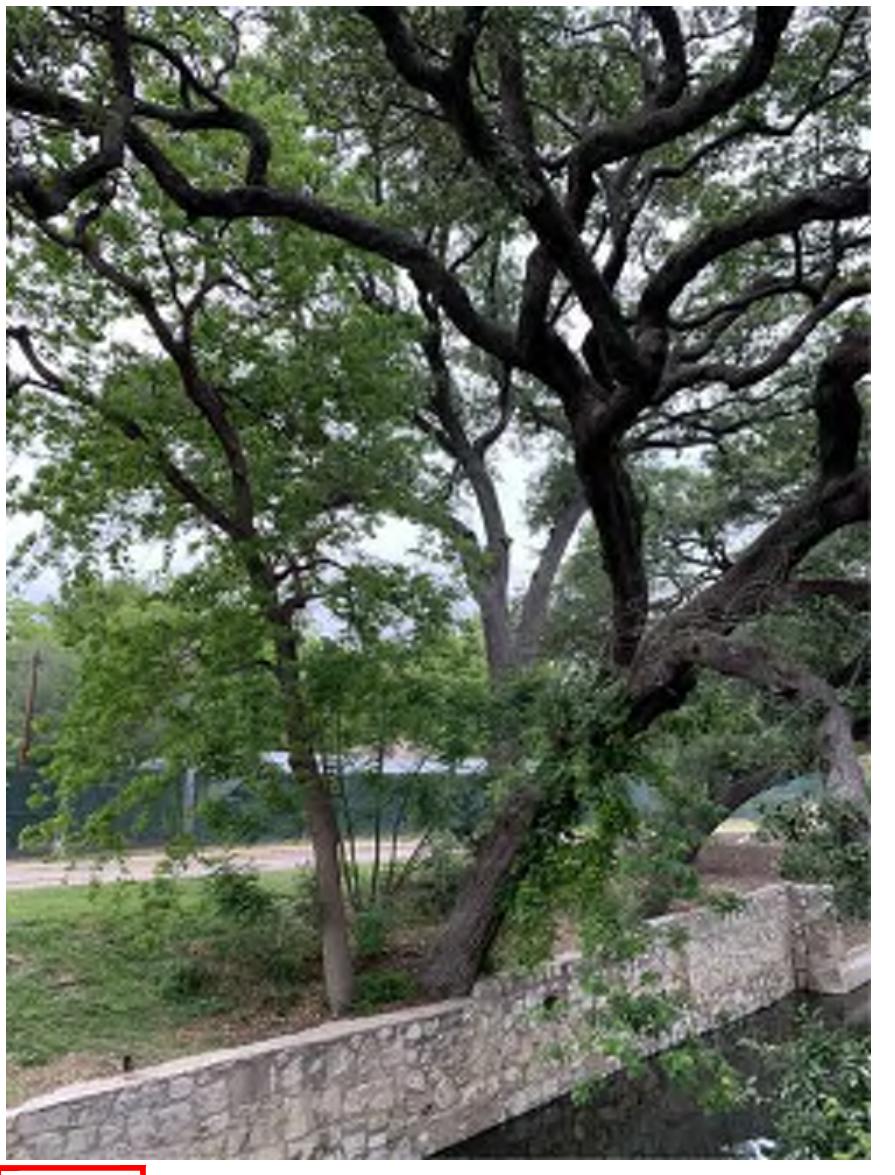
092

OAK | 7
TAG #2229
PRESERVED; OUTSIDE LOW



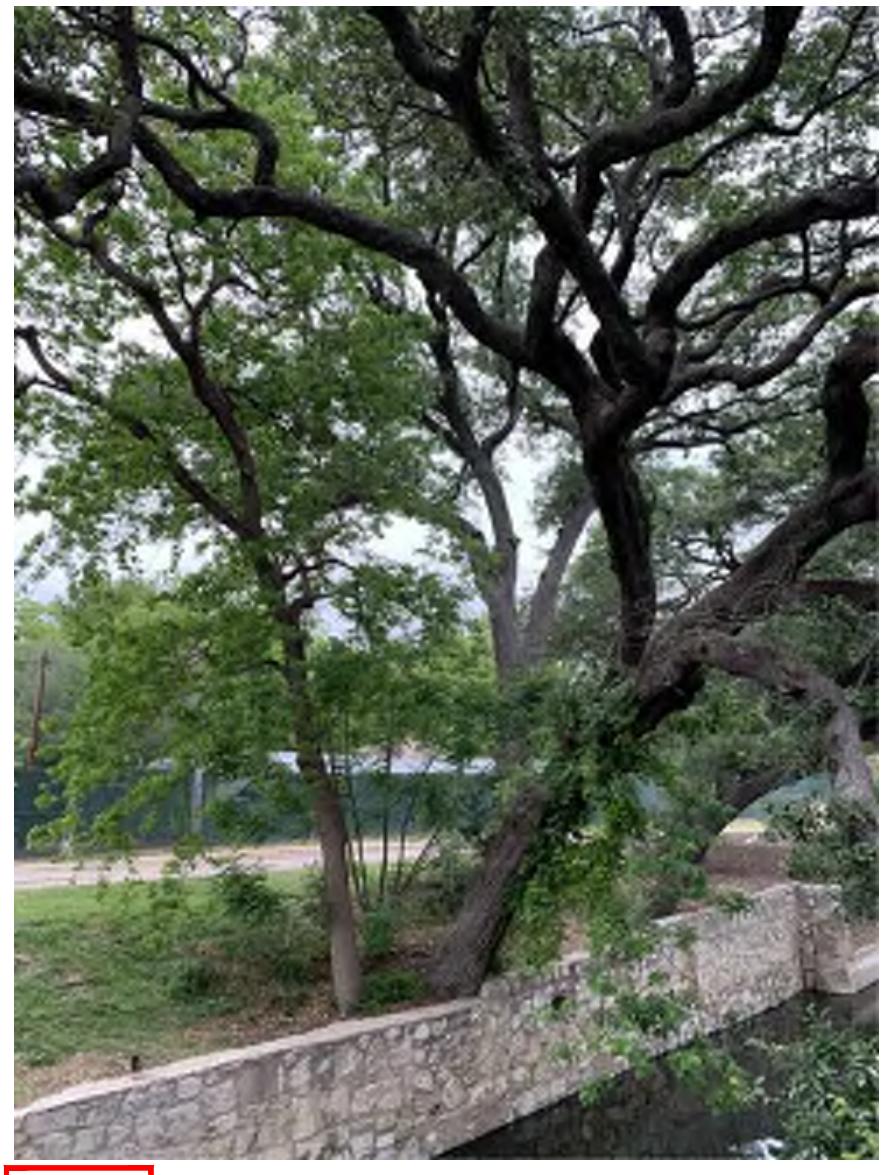
093

BALD CYPRESS | 19
TAG #2234
REMOVED; DEAD (NOT COUNTED)



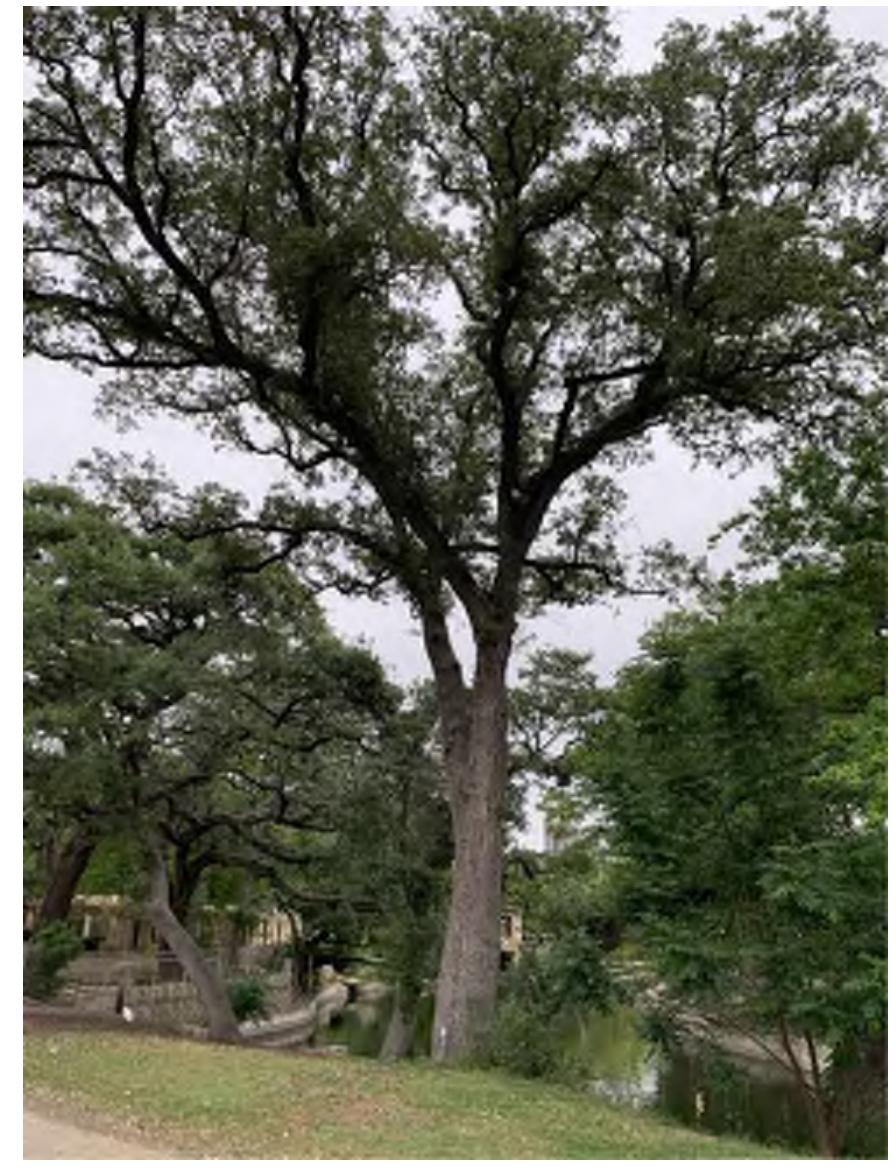
094

CHINESE TALLOW | 12
TAG #2339
REMOVED; INVASIVE SPECIES (NOT COUNTED)



095

OAK | 32
TAG #2334
REMOVED



096

OAK | 34
TAG #2338
PRESERVED



097

OAK | 18
TAG #2354
PRESERVED



098

OAK | 22
TAG #2310
PRESERVED



099

OAK | 16
TAG #2335
PRESERVED



100

OAK | 37
TAG #6006
REMOVED



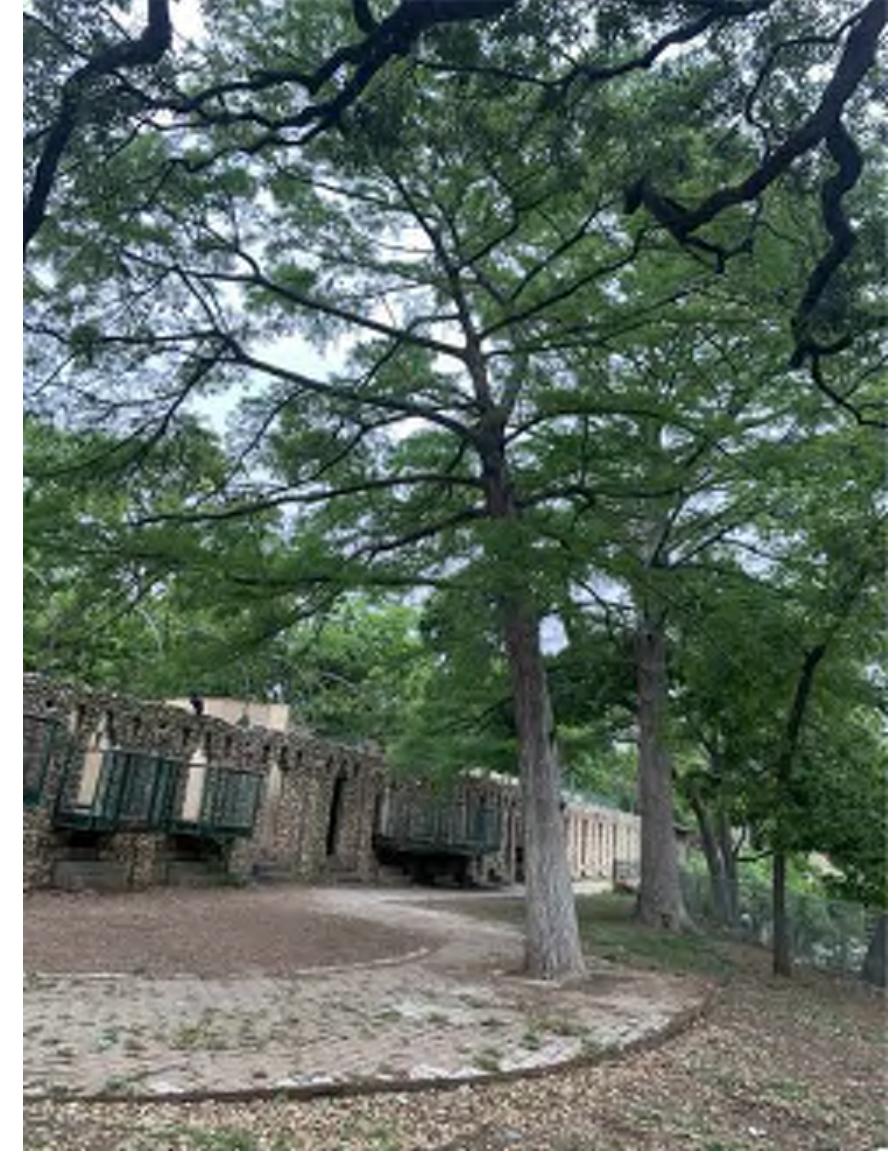
101

OAK | 44
TAG #2324
REMOVED



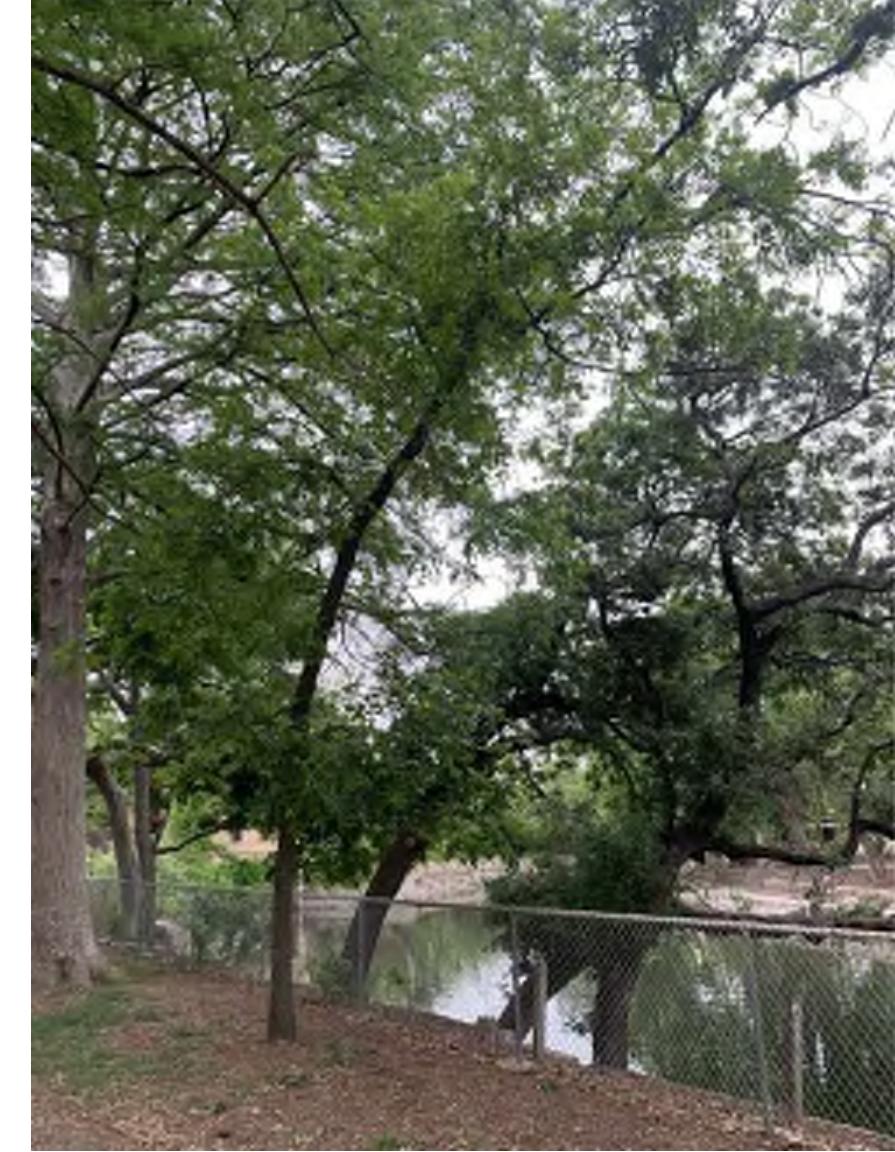
102

CEDAR ELM | 18
TAG #2319
PRESERVED



103

BALD CYPRESS | 20
TAG #328
PRESERVED; OUTSIDE LOW



104

PECAN | 8
TAG #6007
REMOVED



105

OAK | 33
TAG #2366
PRESERVED



106

CYPRESS | 23
TAG #2358
REMOVED



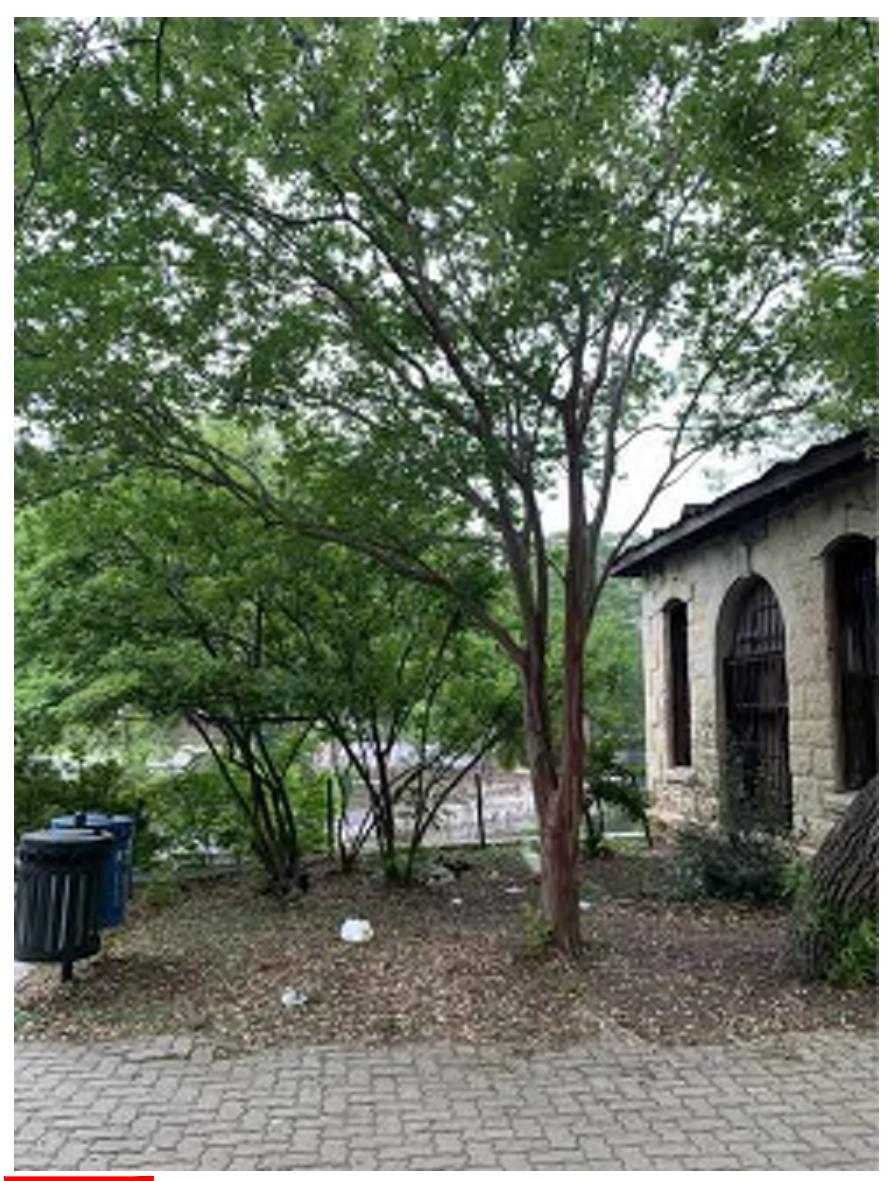
107

PECAN | 18
TAG #2364
REMOVED



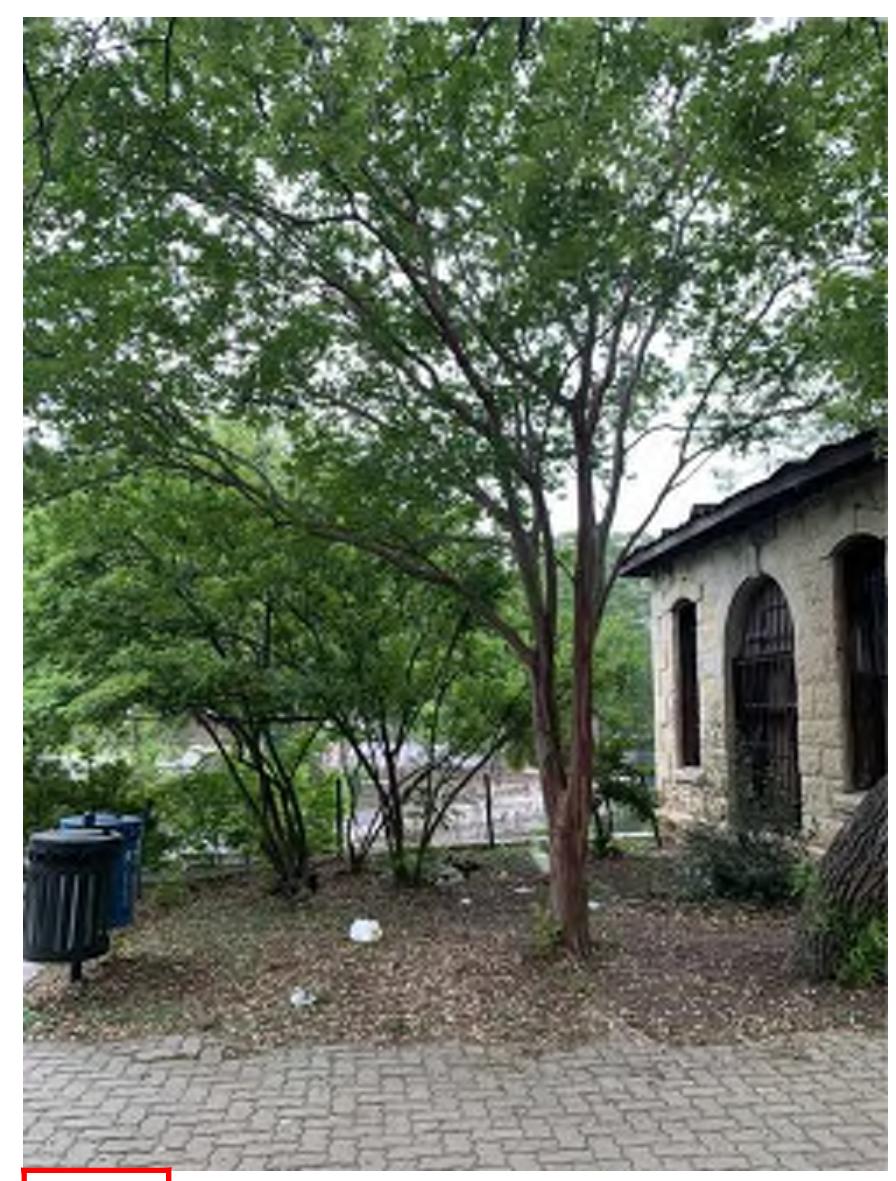
108

PECAN | 22
TAG #2392
REMOVED



109

CREPE MYRTLE | 10
TAG #225
REMOVED



110

YAOUPON | 3
TAG #3026
REMOVED



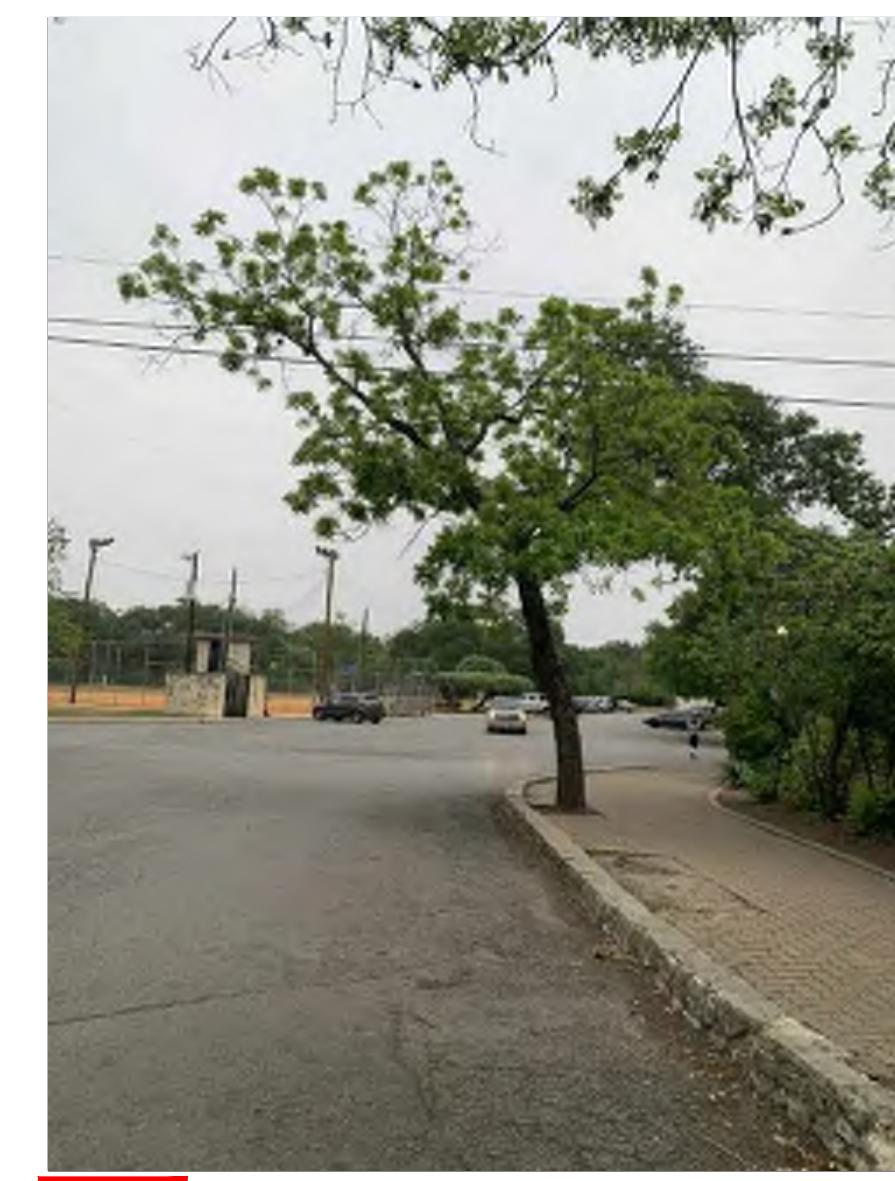
111

CREPE MYRTLE | 16
TAG #2372
REMOVED



112

PECAN | 20
TAG #2375
REMOVED



113

PECAN | 23
TAG #2345
REMOVED

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Revisions

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

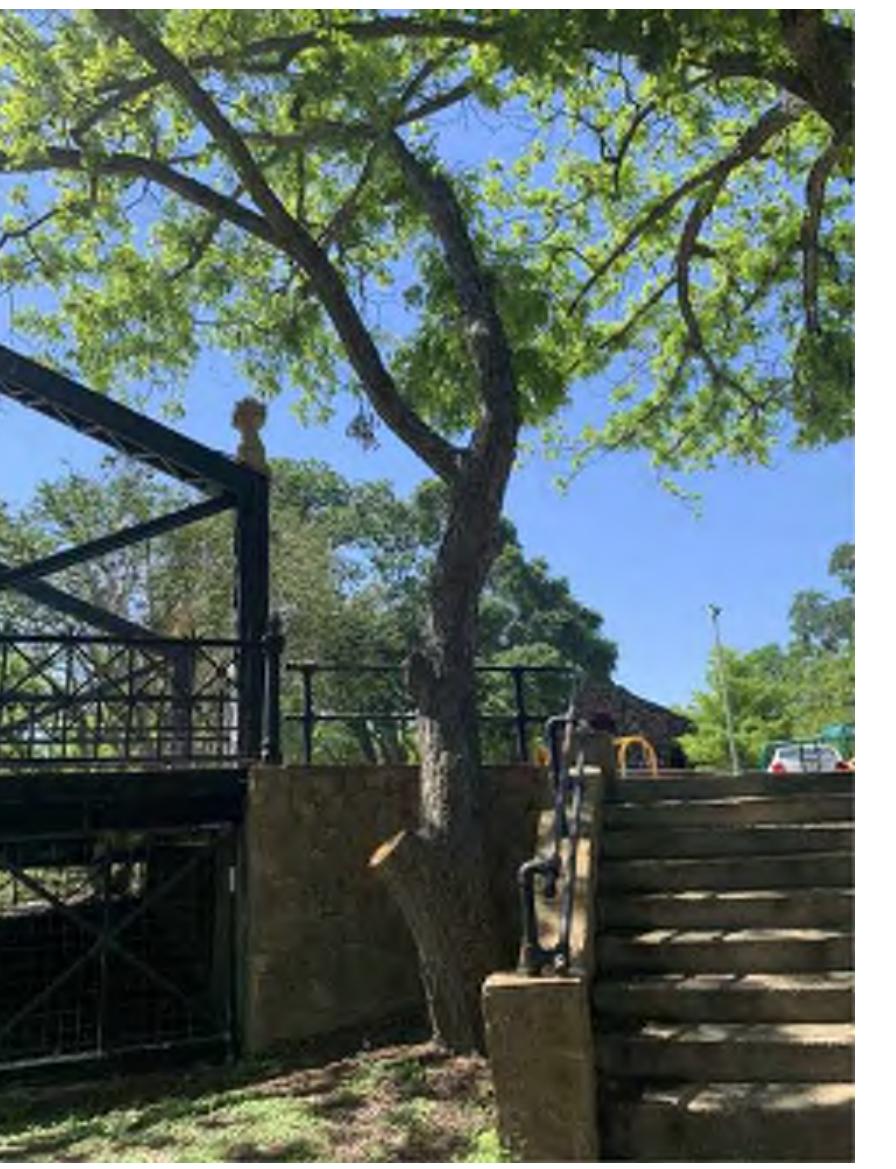
Drawing Number

L1.07



115

CEDAR ELM | 23
TAG #2345
PRESERVED



116

PECAN | 25
TAG #2359
PRESERVED; OUTSIDE LOW



117

PECAN | 24
TAG #2314
PRESERVED; OUTSIDE LOW



118

CREPE MYRTLE | 27
TAG #2387
PRESERVED; OUTSIDE LOW



119

CREPE MYRTLE | 15
TAG #2344
REMOVED



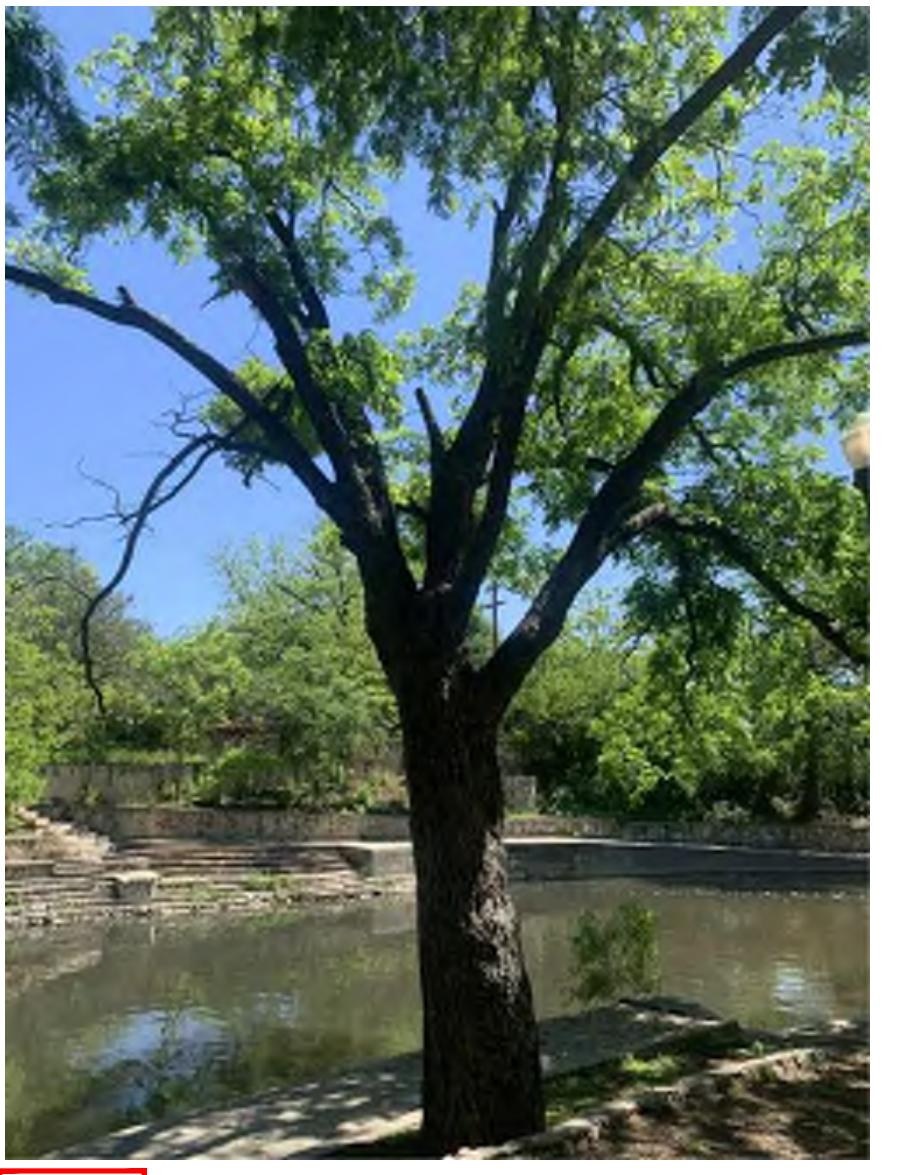
120

CREPE MYRTLE | 23
TAG #2371
PRESERVED; OUTSIDE LOW



121

CREPE MYRTLE | 25
TAG #2371
PRESERVED; OUTSIDE LOW



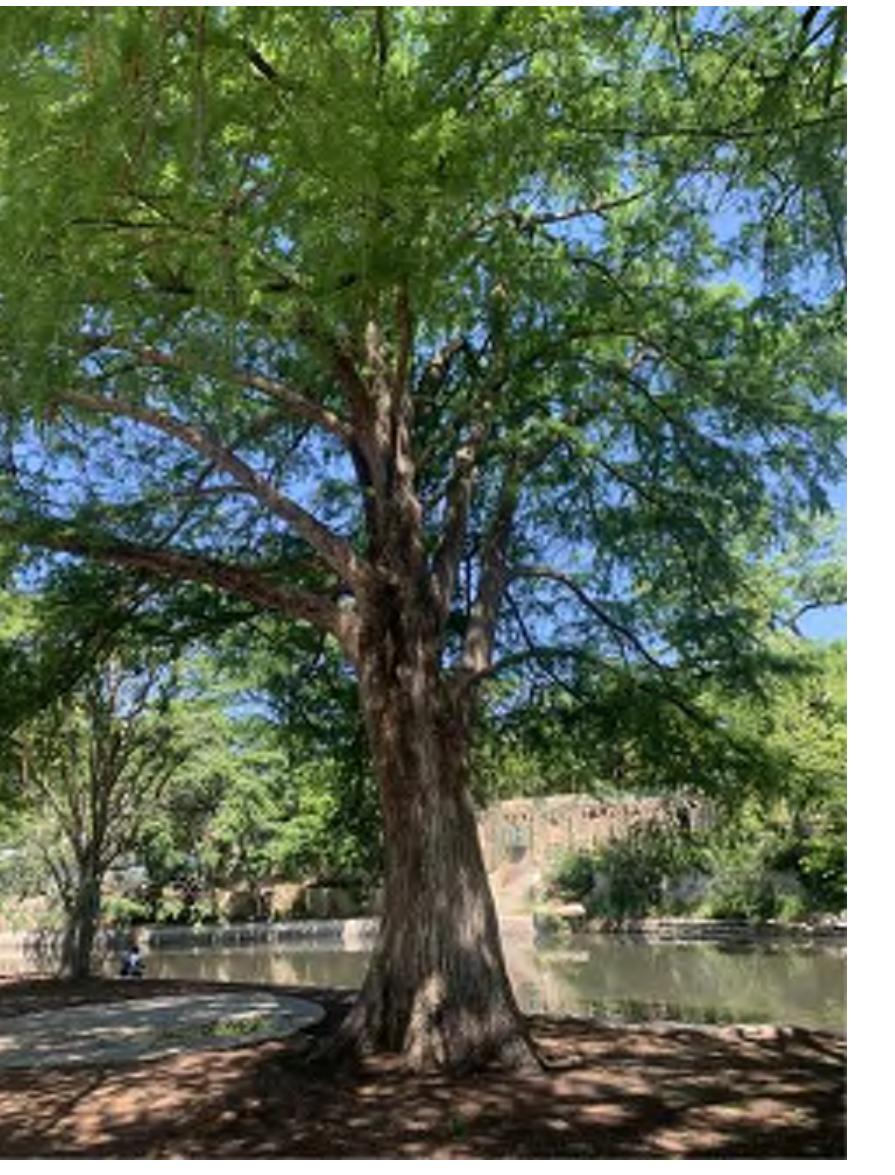
122

PECAN | 22
TAG #2383
REMOVED



123

CYPRESS | 40
TAG #2342
PRESERVED; OUTSIDE LOW



124

BALD CYPRESS | 46
TAG #2388
PRESERVED; OUTSIDE LOW



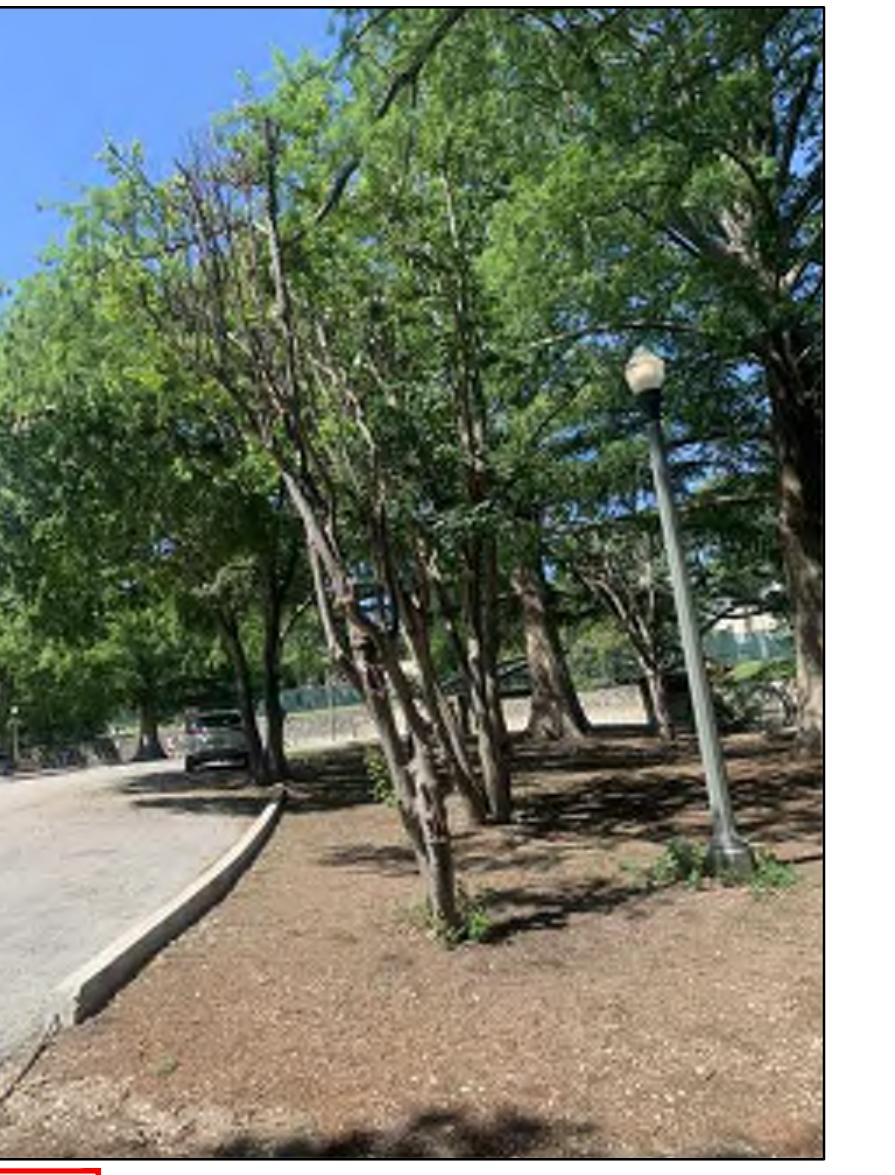
125

CREPE MYRTLE | 27
TAG #2343
REMOVED



126

BALD CYPRESS | 38
TAG #2398
PRESERVED; OUTSIDE LOW



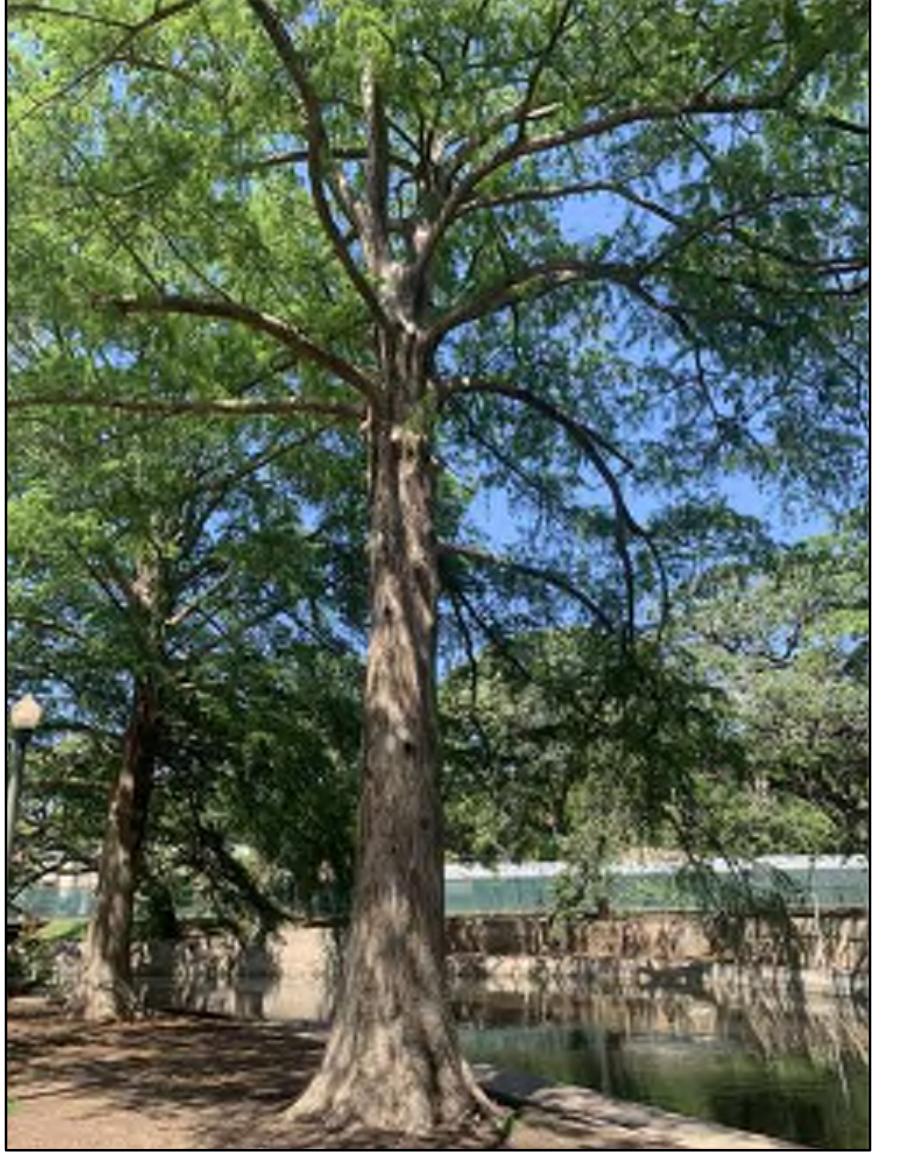
127

CREPE MYRTLE | 9
TAG #2378
REMOVED



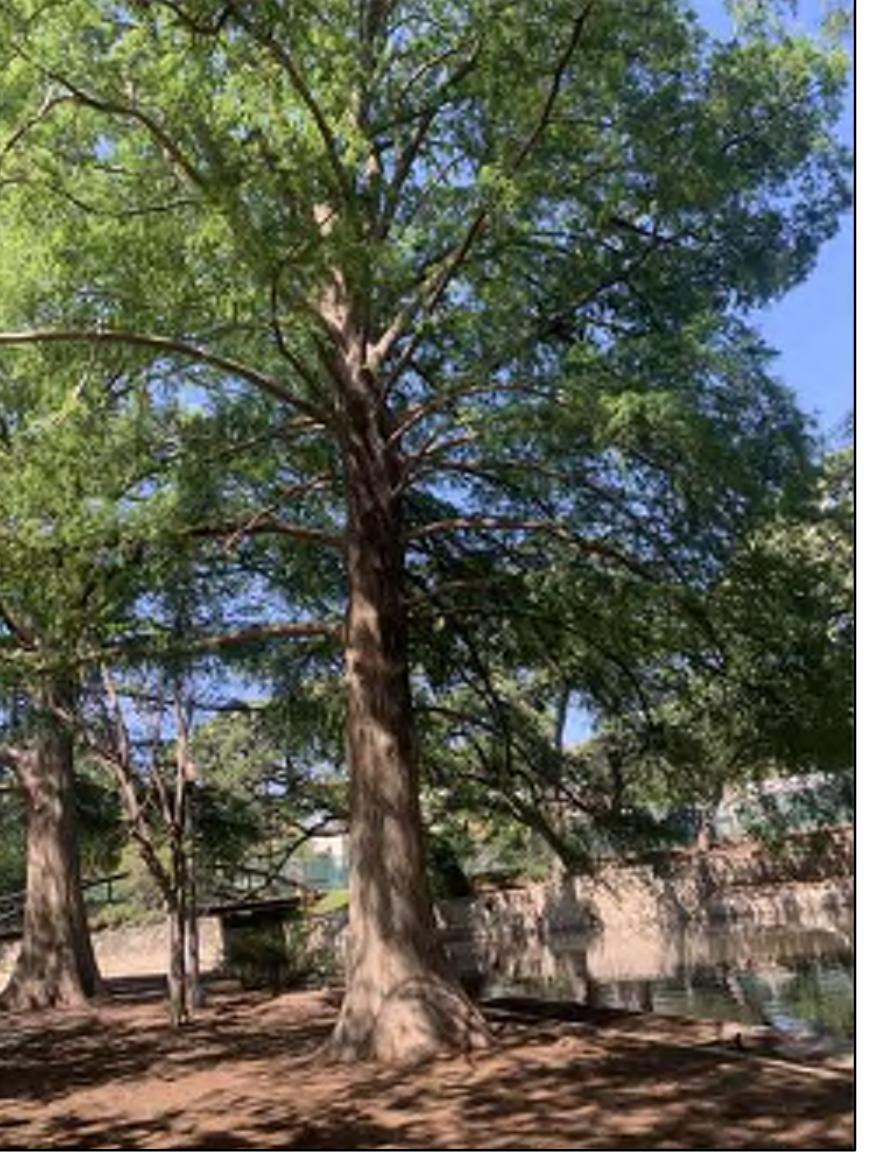
128

CREPE MYRTLE | 22
TAG #2336
REMOVED



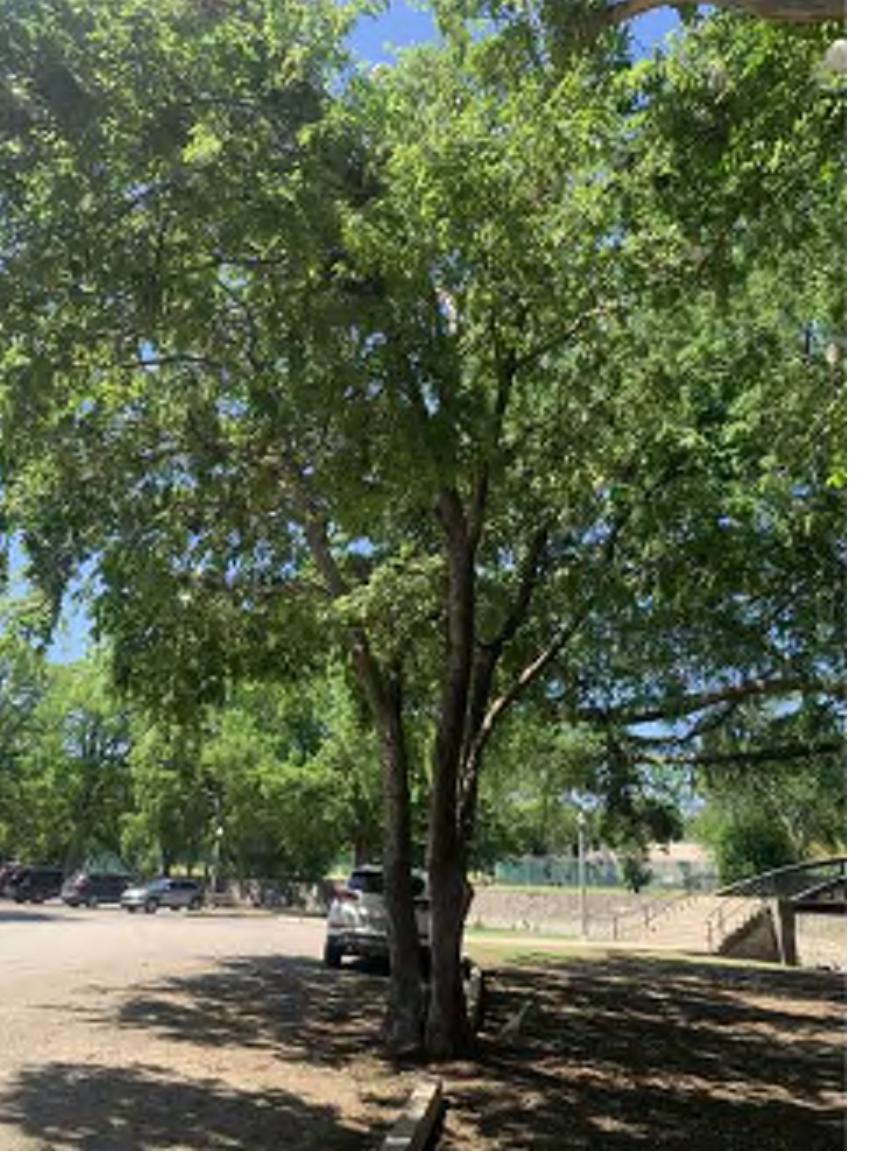
129

BALD CYPRESS | 43
TAG #2226
PRESERVED; OUTSIDE LOW



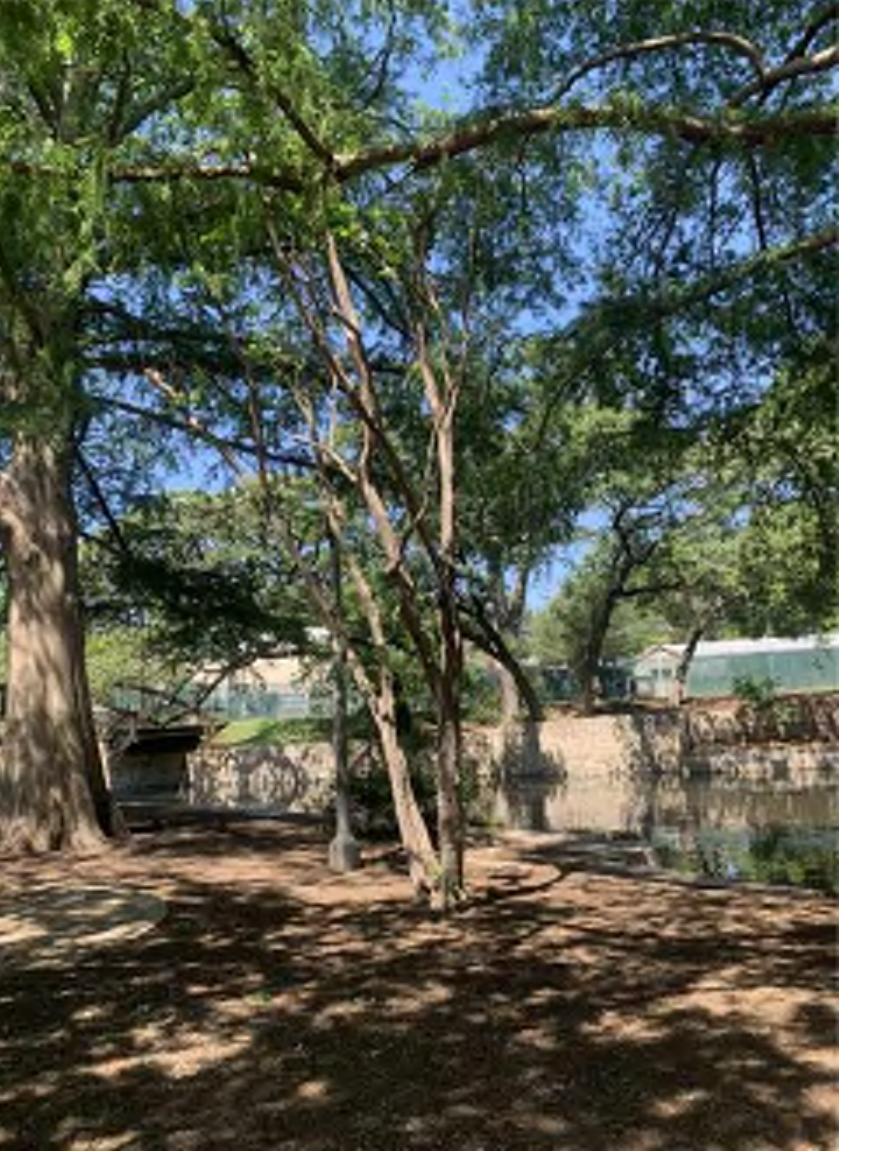
130

BALD CYPRESS | 37
TAG #2337
PRESERVED; OUTSIDE LOW



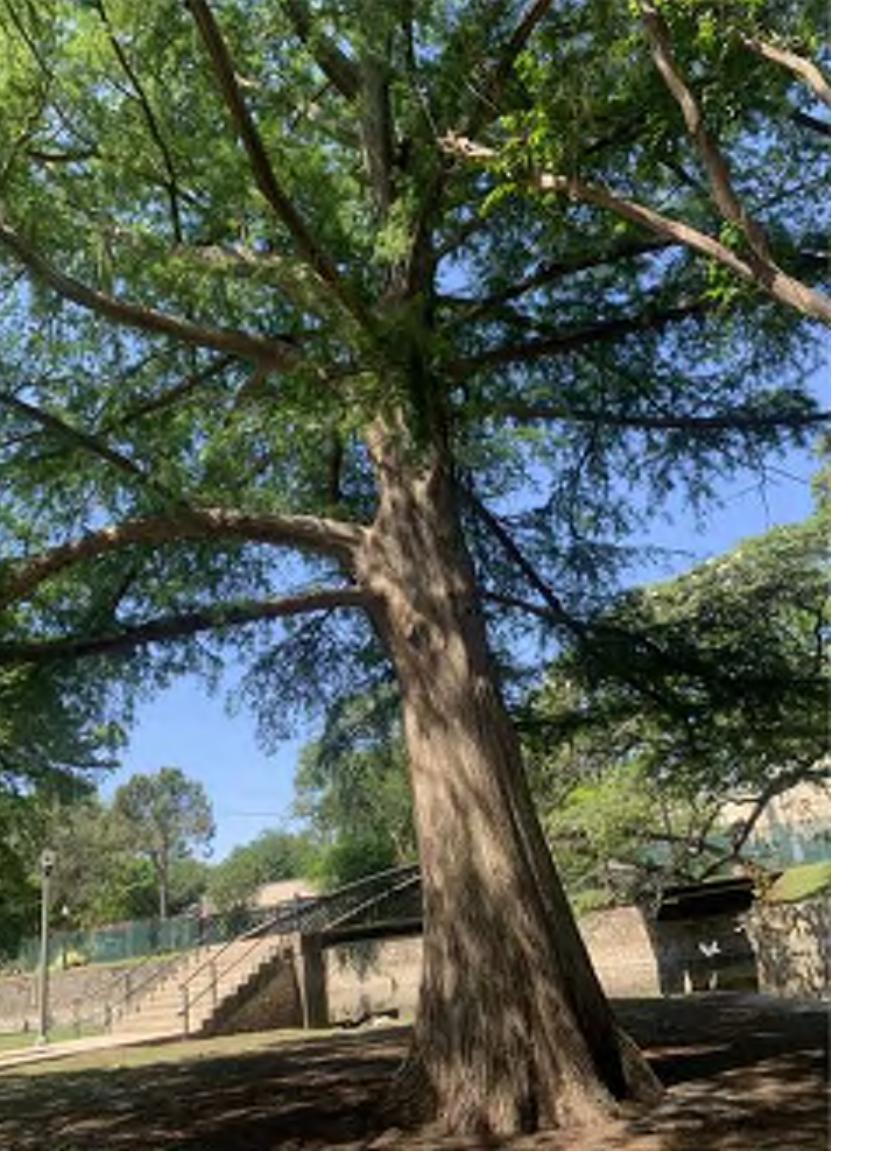
131

HACKBERRY | 25
TAG #2315
REMOVED



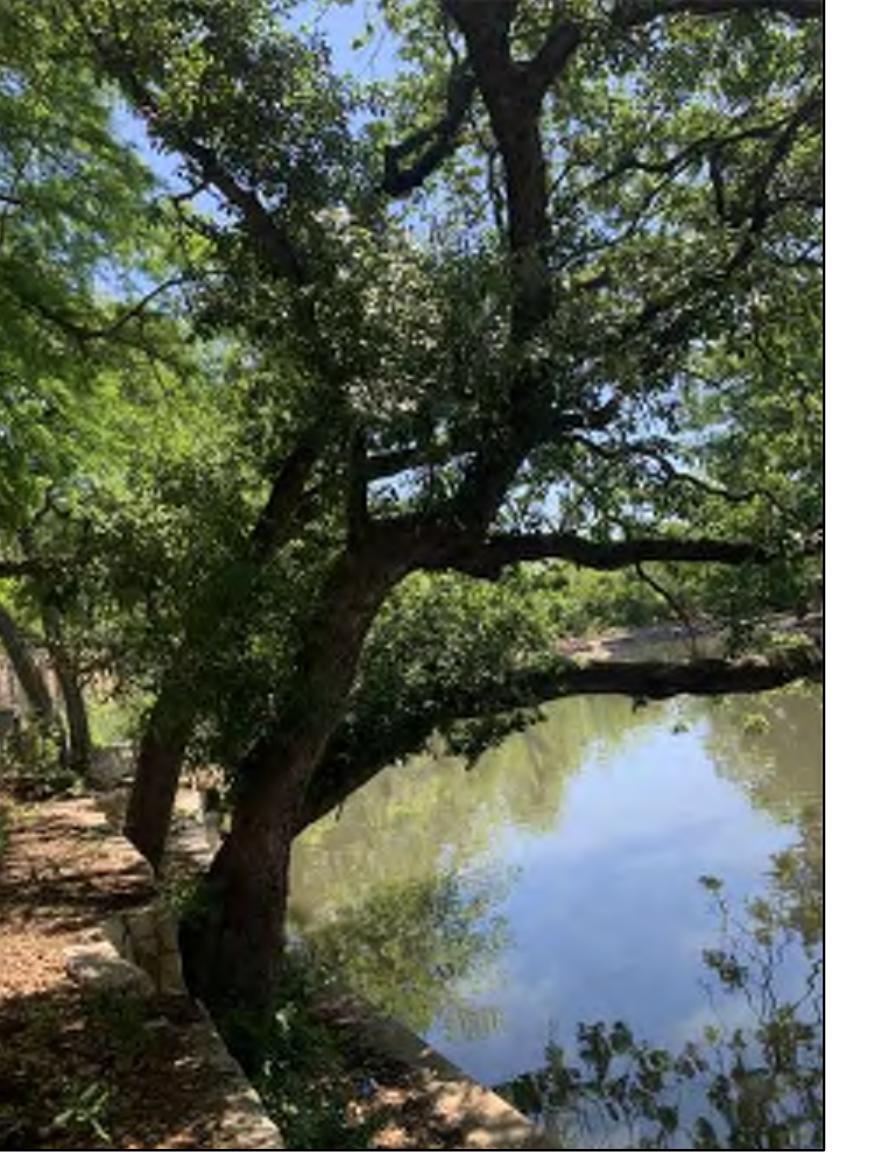
132

CREPE MYRTLE | 17
TAG #2400
REMOVED



133

BALD CYPRESS | 53
TAG #2320
PRESERVED; OUTSIDE LOW



134

OAK | 16
TAG #6008
REMOVED



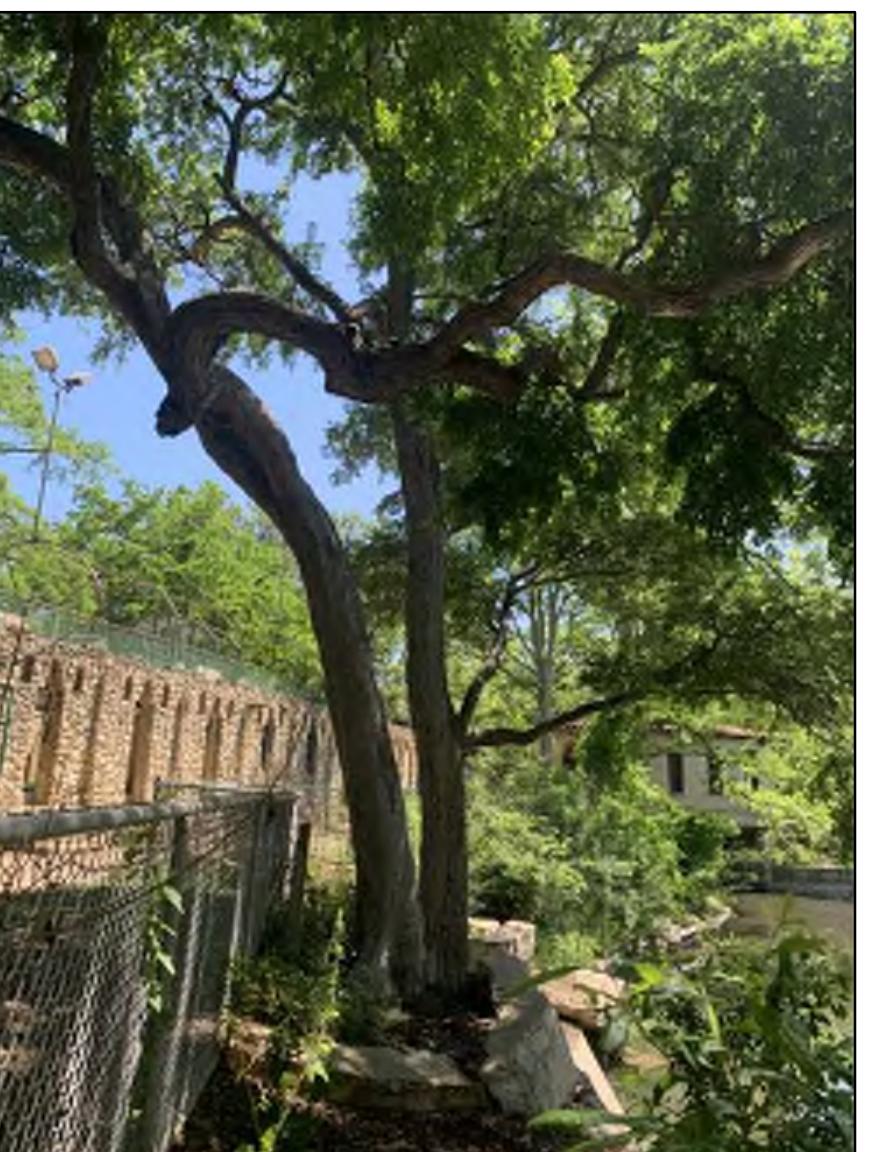
135

OAK | 15
TAG #6009
REMOVED



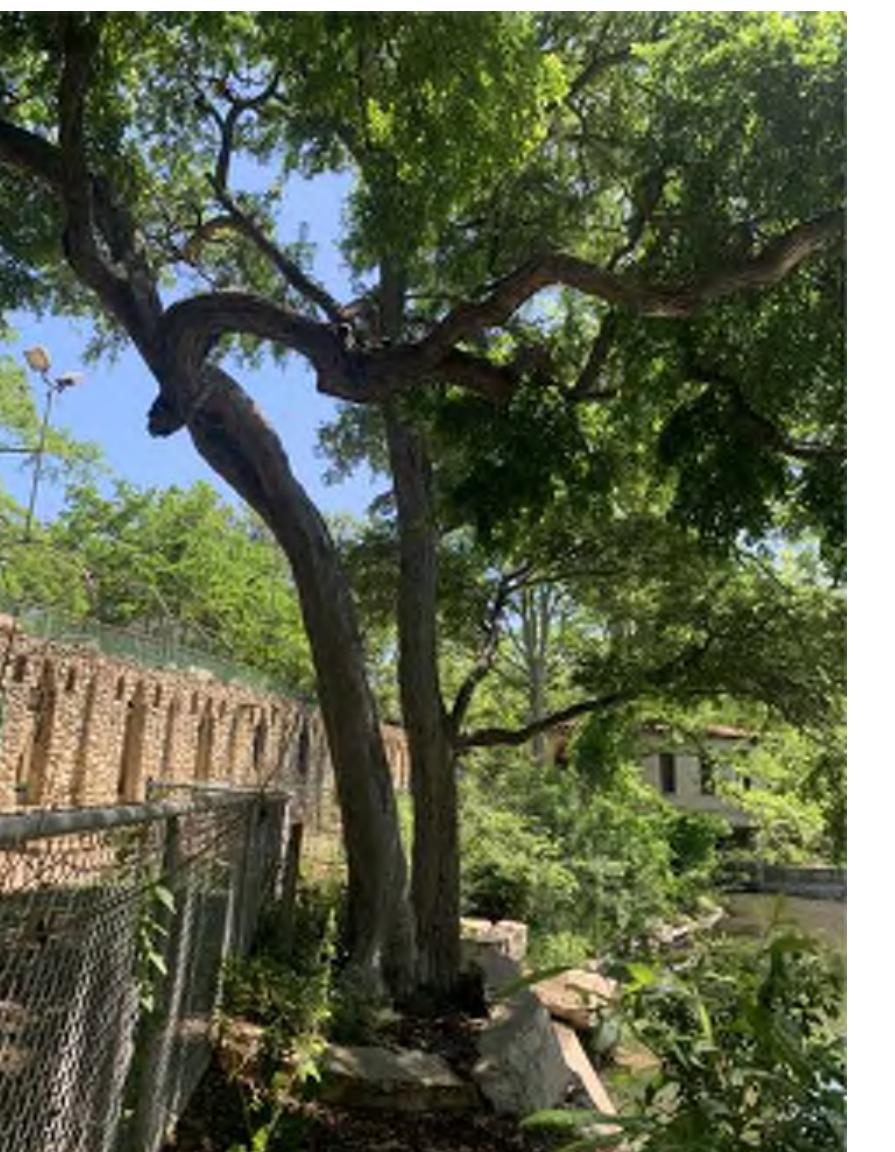
136

OAK | 20
TAG #6010
REMOVED



137

CEDAR ELM | 17
TAG #6011
REMOVED



138

CEDAR ELM | 16
TAG #6012
REMOVED



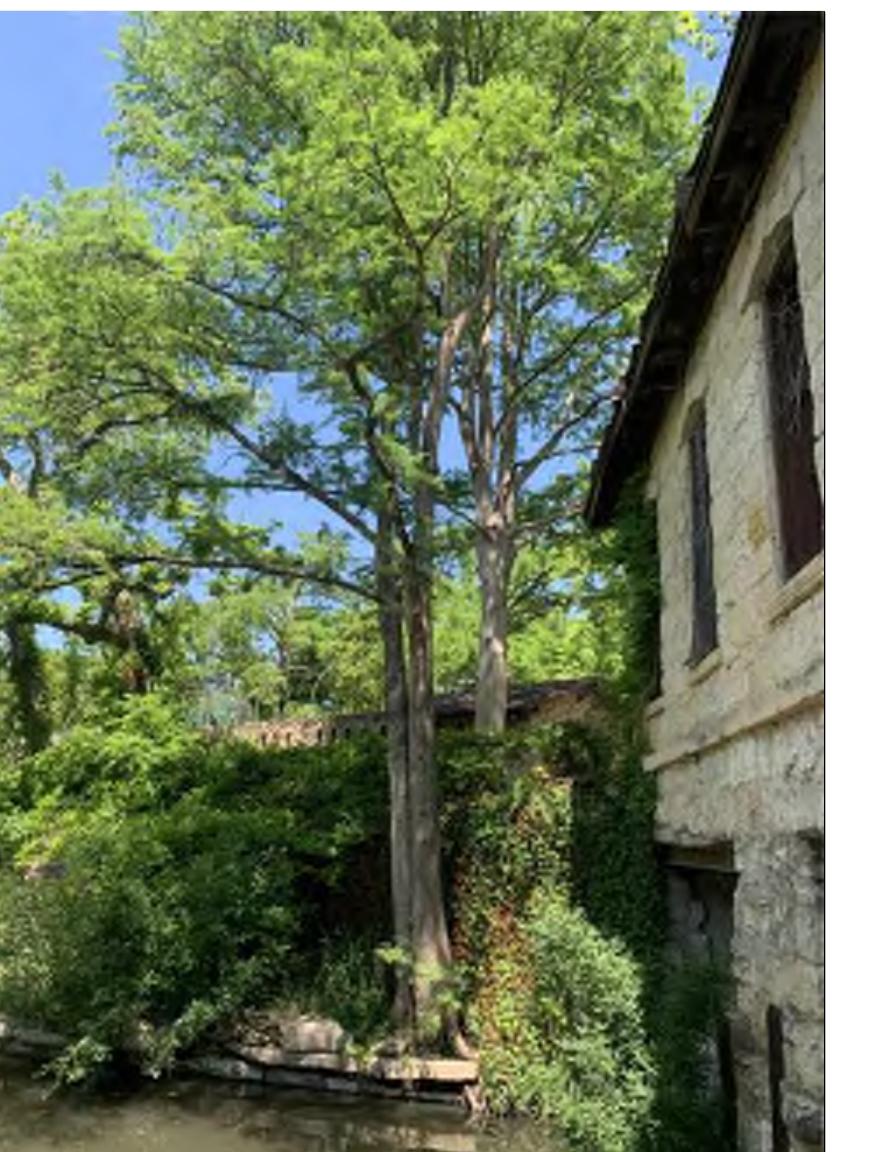
139

PECAN | 26
TAG #2385
REMOVED



140

PECAN | 24
TAG #2385
REMOVED



141

BALD CYPRESS | 27
TAG #2354
REMOVED



142

PECAN | 20
TAG #2316
REMOVED; DEAD (NOT COUNTED)

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Revisions

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.08



143
CEDAR ELM | 12
TAG #238
REMOVED



144
EVE'S NECKLACE | 8
TAG #237
REMOVED



145
OAK | 32
TAG #2126
REMOVED



146
HUIHACHE | 13
TAG #2134
REMOVED



147
PECAN | 28
TAG #2426
PRESERVED



148
TREE SPECIES | SIZE
CONDITION
CITY TAG #



149
ASH | 7
TAG #3030
PRESERVED



150
PECAN | 12
TAG #2426
PRESERVED



151
OAK | 20
TAG #2425
PRESERVED



152
PECAN | 18
TAG #2424
PRESERVED



153
OAK | 16
TAG #2423
PRESERVED



154
PECAN | 16'
TAG #2039
REMOVED



155
OAK | 37
TAG #2307
PRESERVED



156
CEDAR ELM | 19
TAG #1001
REMOVED



157
CEDAR ELM | 25
TAG #1002
PRESERVED



158
CEDAR ELM | 20
TAG #1003
PRESERVED



159
CEDAR ELM | 11
TAG #1005
PRESERVED



160
CEDAR ELM | 18
TAG #1004
PRESERVED



161
CEDAR ELM | 13
TAG #1007
PRESERVED



162
CEDAR ELM | 13
TAG #1009
PRESERVED



163
CEDAR ELM | 9
TAG #1007
PRESERVED



164
CEDAR ELM | 12
TAG #1006
REMOVED



165
CEDAR ELM | 8
TAG #1010
PRESERVED



166
CEDAR ELM | 20
TAG #1011
PRESERVED



167
CEDAR ELM | 11
TAG #1012
PRESERVED



168
CEDAR ELM | 13
TAG #1013
PRESERVED



169
CEDAR ELM | 18
TAG #1014
PRESERVED



170
CEDAR ELM | 14
TAG #1015
PRESERVED

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Scale North

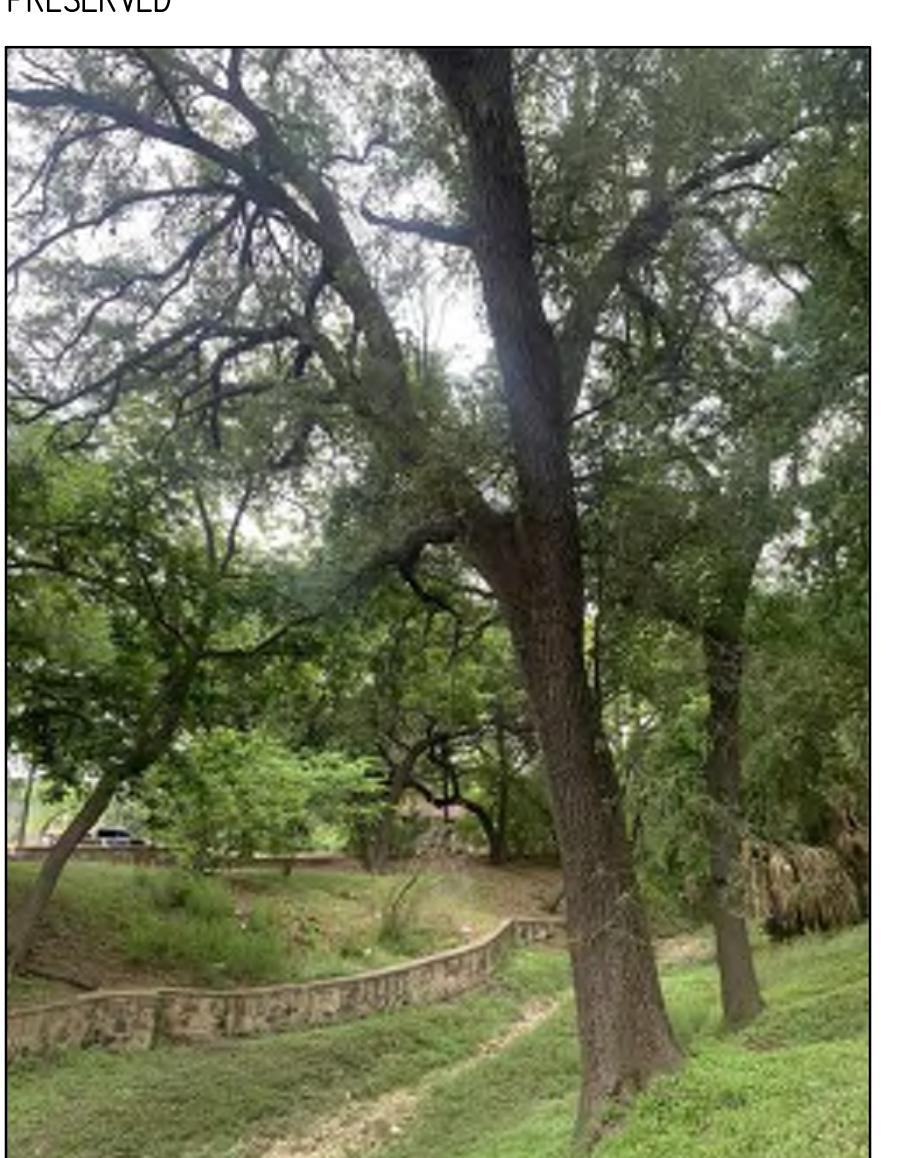
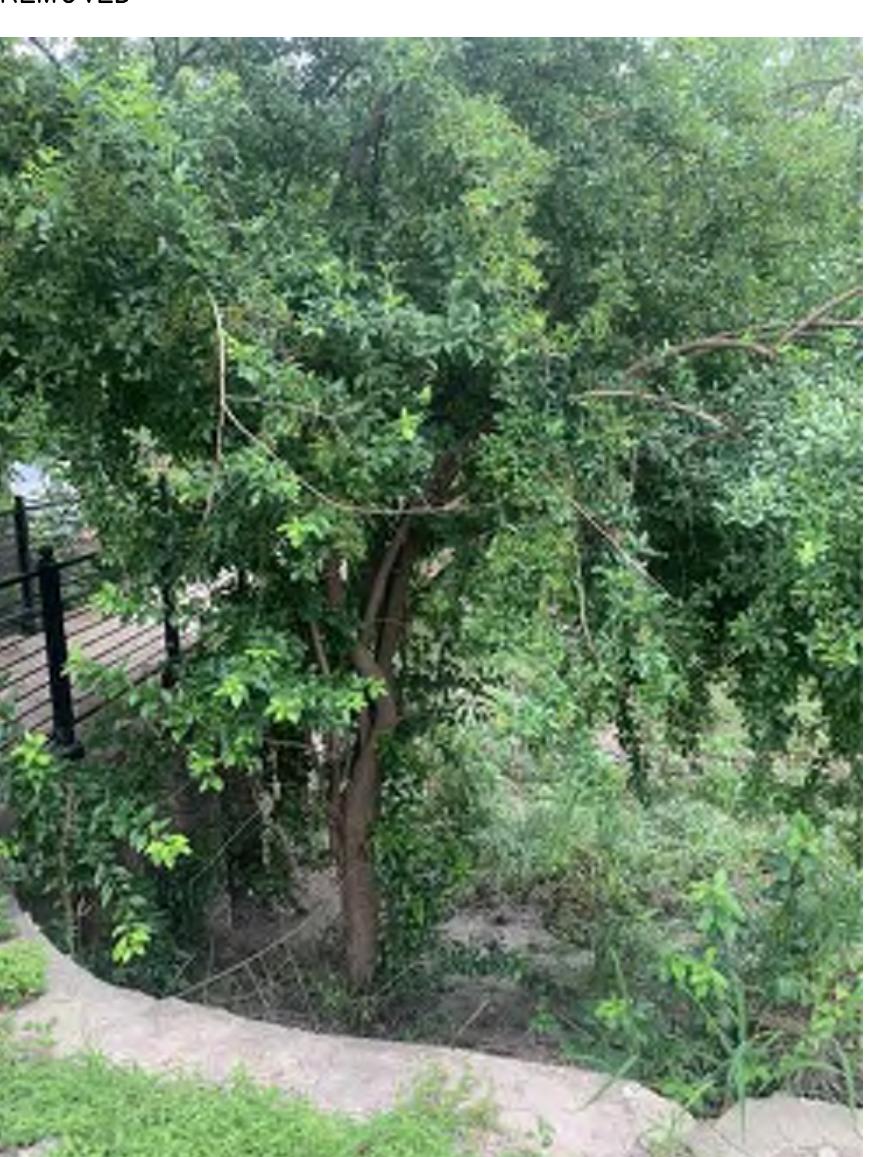
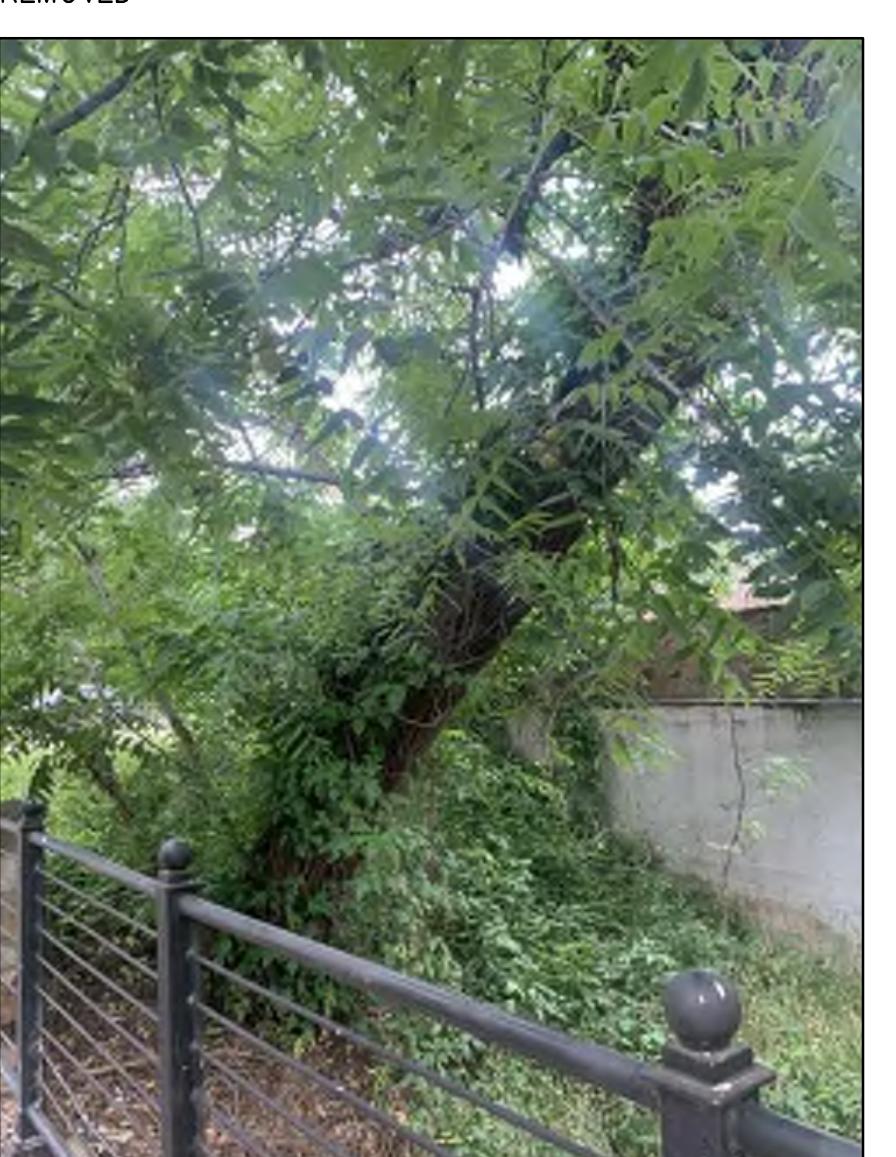
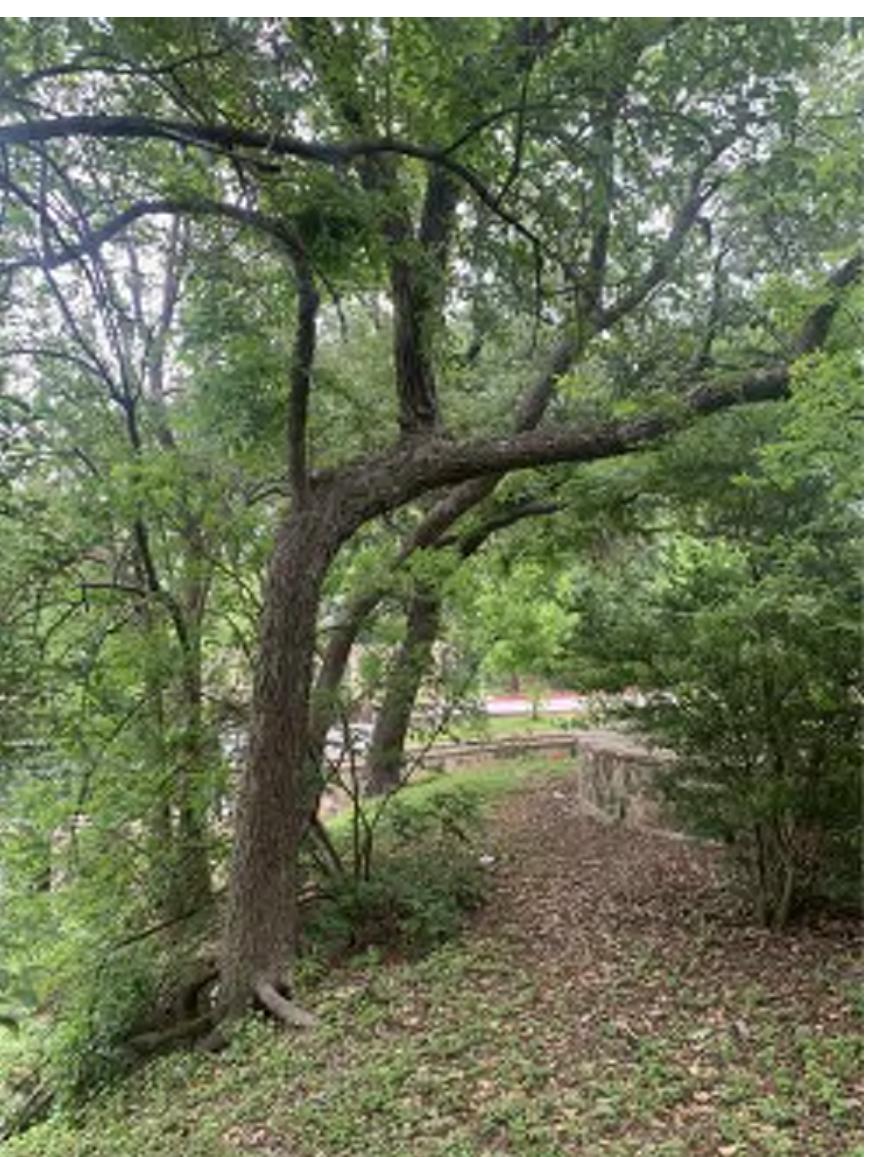
NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.09



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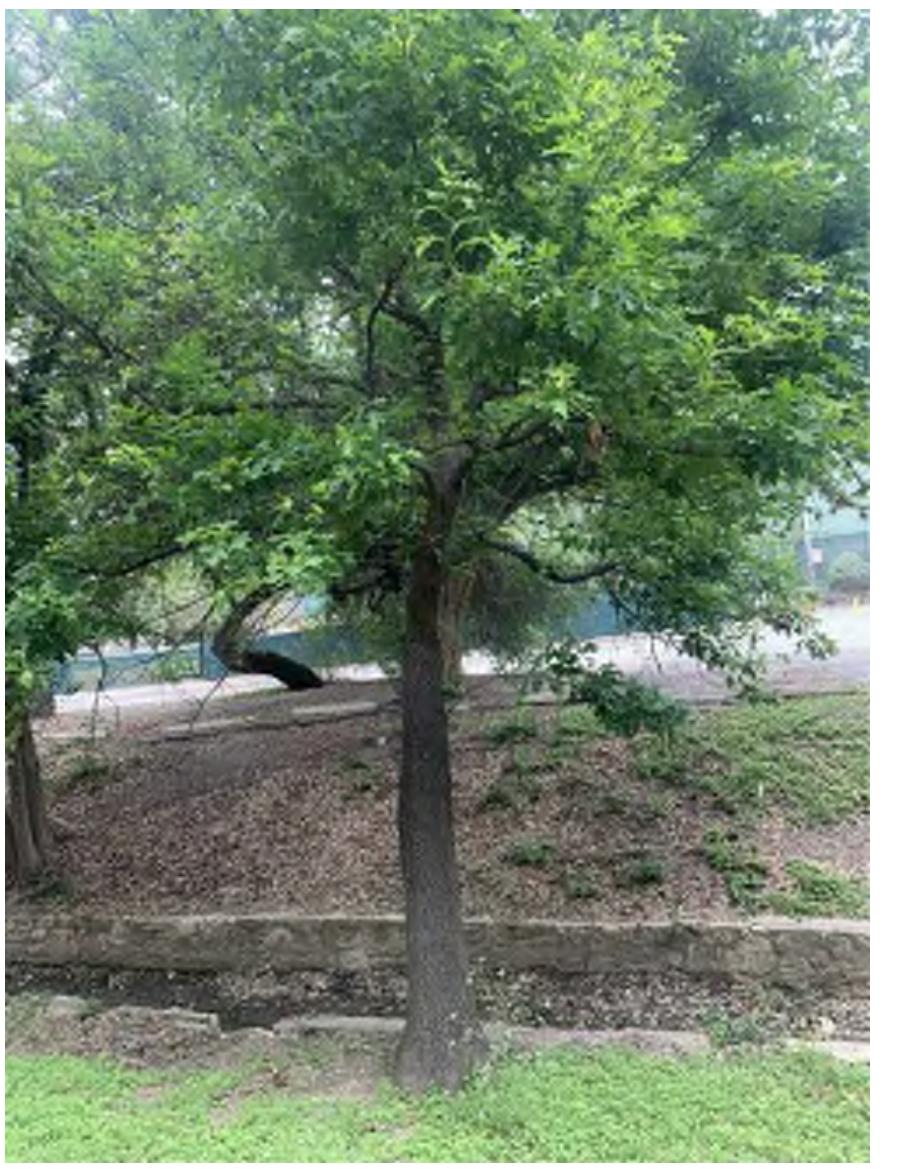
NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.10



199

OAK | 19
TAG #2199
REMOVED



200

OAK | 15
TAG #2301
PRESERVED



201

OAK | 18
TAG #2299
PRESERVED



202

PALM | 20
TAG #2193
PRESERVED



203

BOX ELDER | 12
TAG #2207
PRESERVED



204

PALM | 22
TAG #2169
PRESERVED



205

PALM | 22
TAG #2169
PRESERVED



206

OAK | 17
TAG #2300
PRESERVED



207

OAK | 22
TAG #2203
PRESERVED



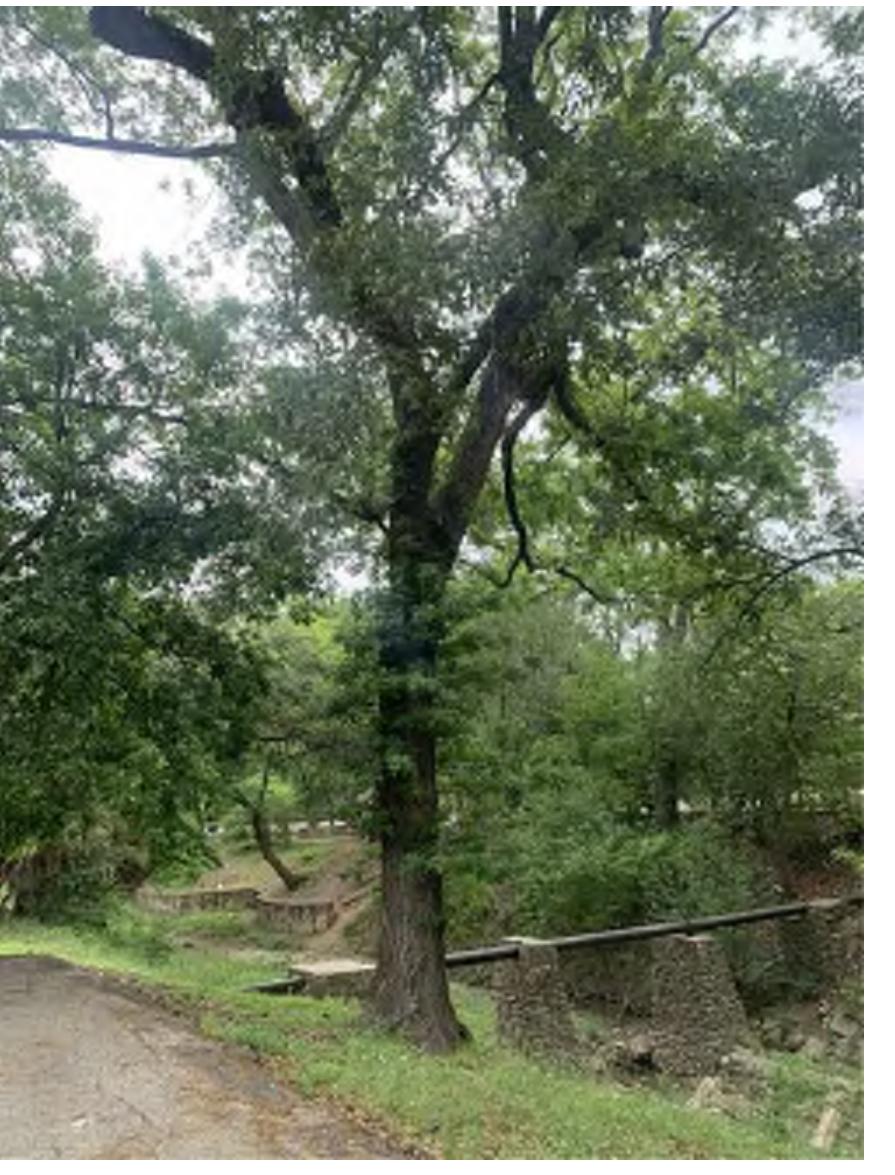
208

OAK | 16
TAG #2430
PRESERVED



209

PECAN | 19
TAG #193
REMOVED



210

PECAN | 29
TAG #2168
PRESERVED



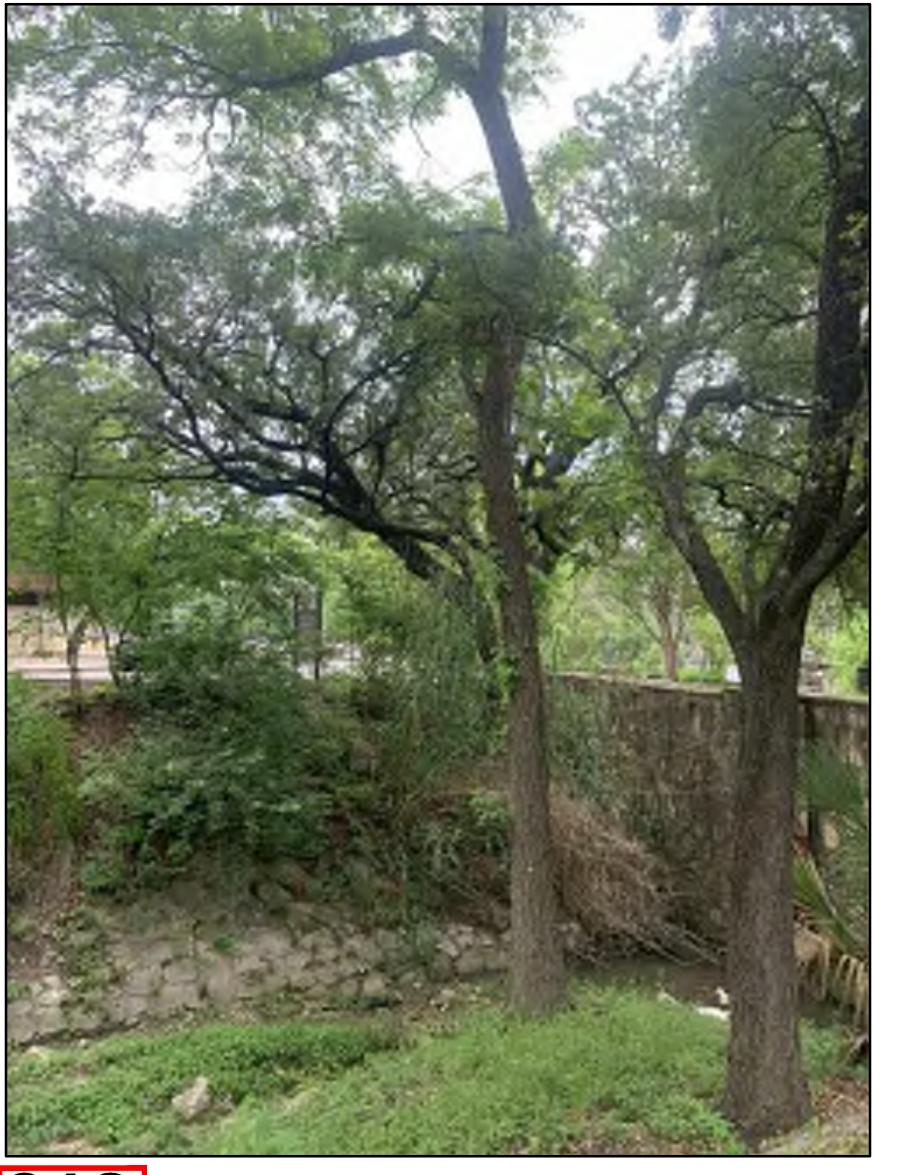
211

PECAN | 16
TAG #2144
REMOVED



212

OAK | 16
TAG #2123
REMOVED



213

PECAN | 18
TAG #2204
REMOVED



214

BOX ELDER | 10
TAG #10021
PRESERVED



215

CREPE MYRTLE | 19
TAG #2390
PRESERVED; OUTSIDE LOW



216

OAK | 5
TAG #3022
PRESERVED



217

OAK | 5
TAG #3022
PRESERVED



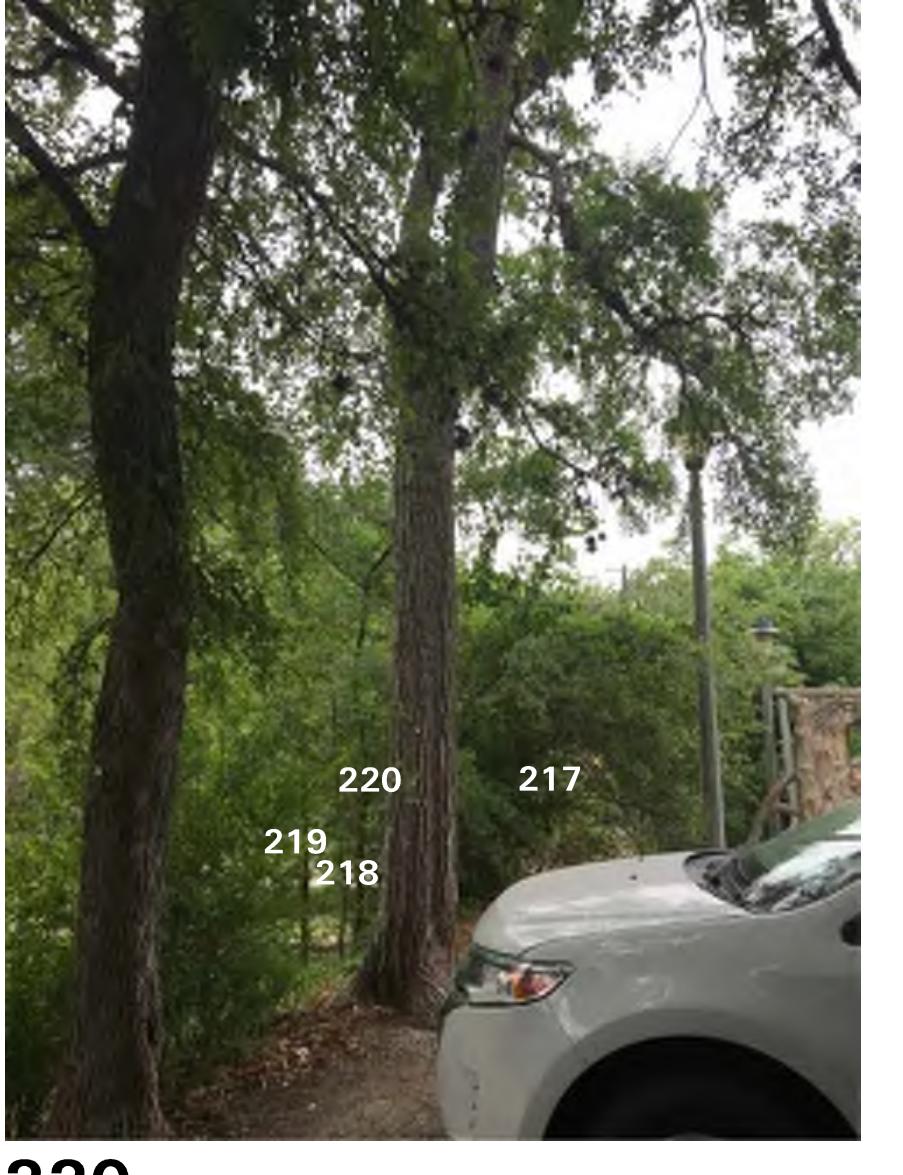
218

OAK | 3
TAG #3001
PRESERVED



219

OAK | 4
TAG #3001
PRESERVED



220

OAK | 4
TAG #3000
PRESERVED



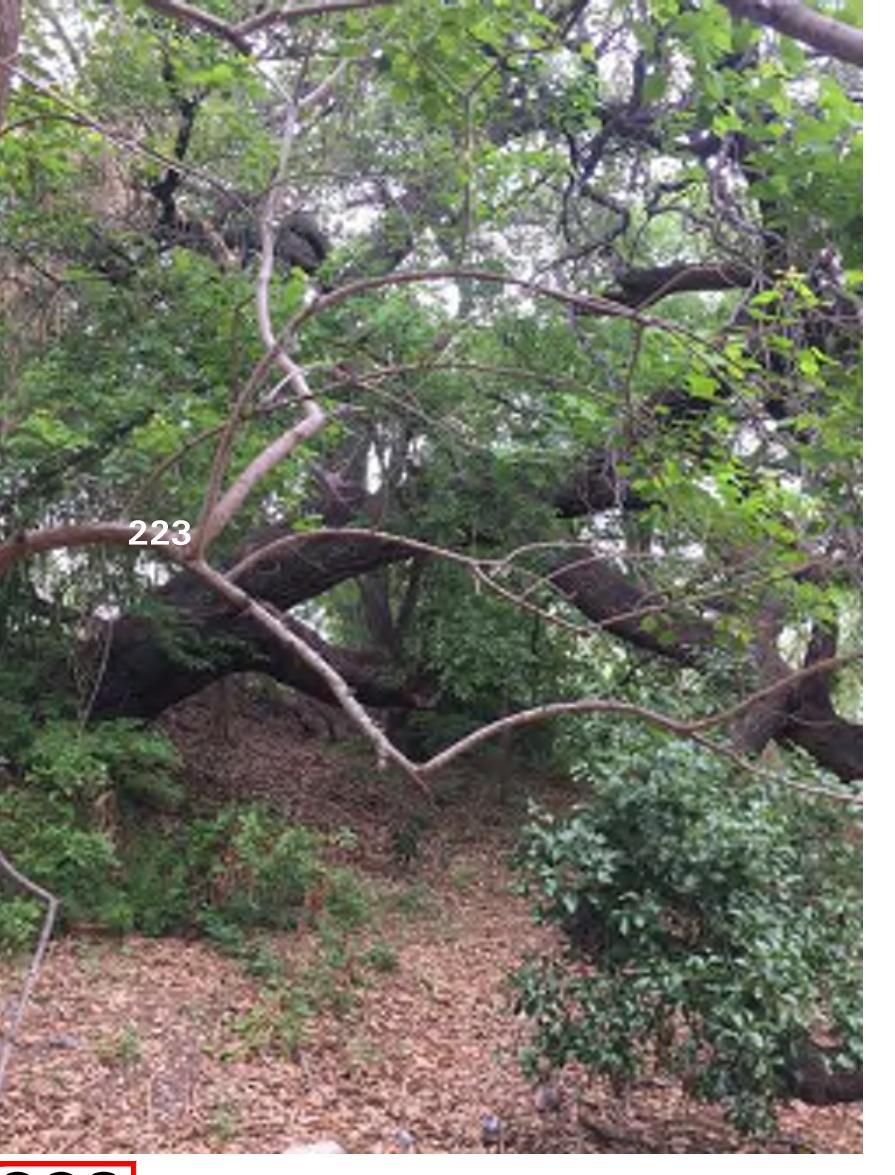
221

BOX ELDER | 5
TAG #3016
PRESERVED



222

BOX ELDER | 5
TAG #3015
PRESERVED



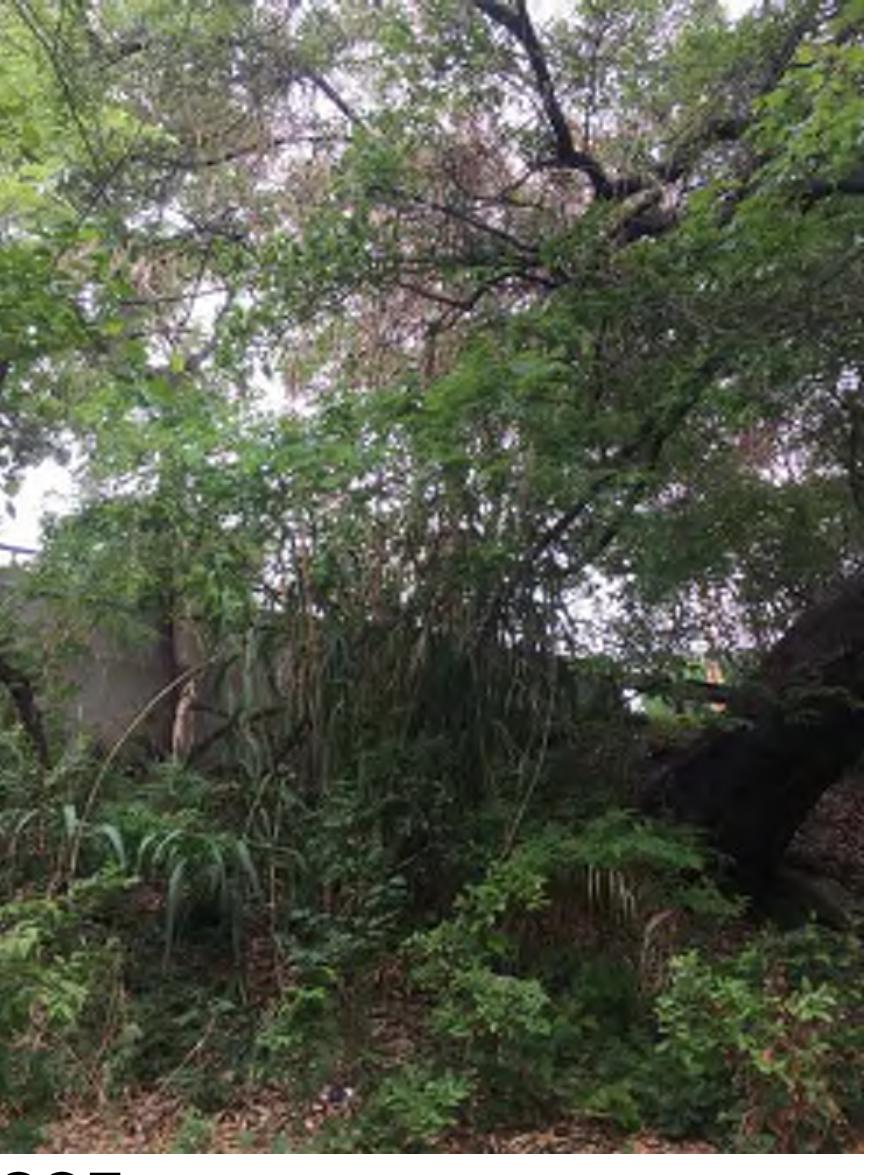
223

LIGUSTRUM | 6
TAG #3011
REMOVED; UNDESIRABLE SPECIES (NOT COUNTED)



224

HACKBERRY | 4
TAG #3017
PRESERVED



225

HACKBERRY | 4
TAG #3018
PRESERVED



226

BLACK WILLOW | 8
TAG #3010
REMOVED

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BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI)
PO BOX 839966, SAN ANTONIO TX 78283-3966

Landscape Architect

swa

742 Main Street,
6th Floor
Houston, Texas 77002
United States
www.swagroup.com
+1.713.868.1676

LOCAL LANDSCAPE

WORKSHOP
123 PARLAND PLACE, SUITE 100
SAN ANTONIO, TX 78209

ARCHITECT

OVERLAND
203 E. JONES AVE., SUITE 104
SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN
933 NORTH FLORES STREET, SUITE B
SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC.
933 NORTH FLORES STREET
SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES
1045 CENTRAL PARKWAY NORTH,
SUITE 200, SAN ANTONIO, TX 78232

MEP

CNG ENGINEERING
1917 N. NEW BRAUNFELS AVE., SUITE
201, SAN ANTONIO TX, 78208

Stamp



Revisions

1

2

3

4

5

Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.11



227

GOLDEN RAINTREE | 5
TAG #3010
PRESERVED



228

HACKBERRY | 5
TAG #3007
PRESERVED



229

RED OAK | 5
TAG #3005
PRESERVED



230

HACKBERRY | 9
TAG #3006
PRESERVED



231

LIGUSTRUM | 6
TAG #3009
PRESERVED



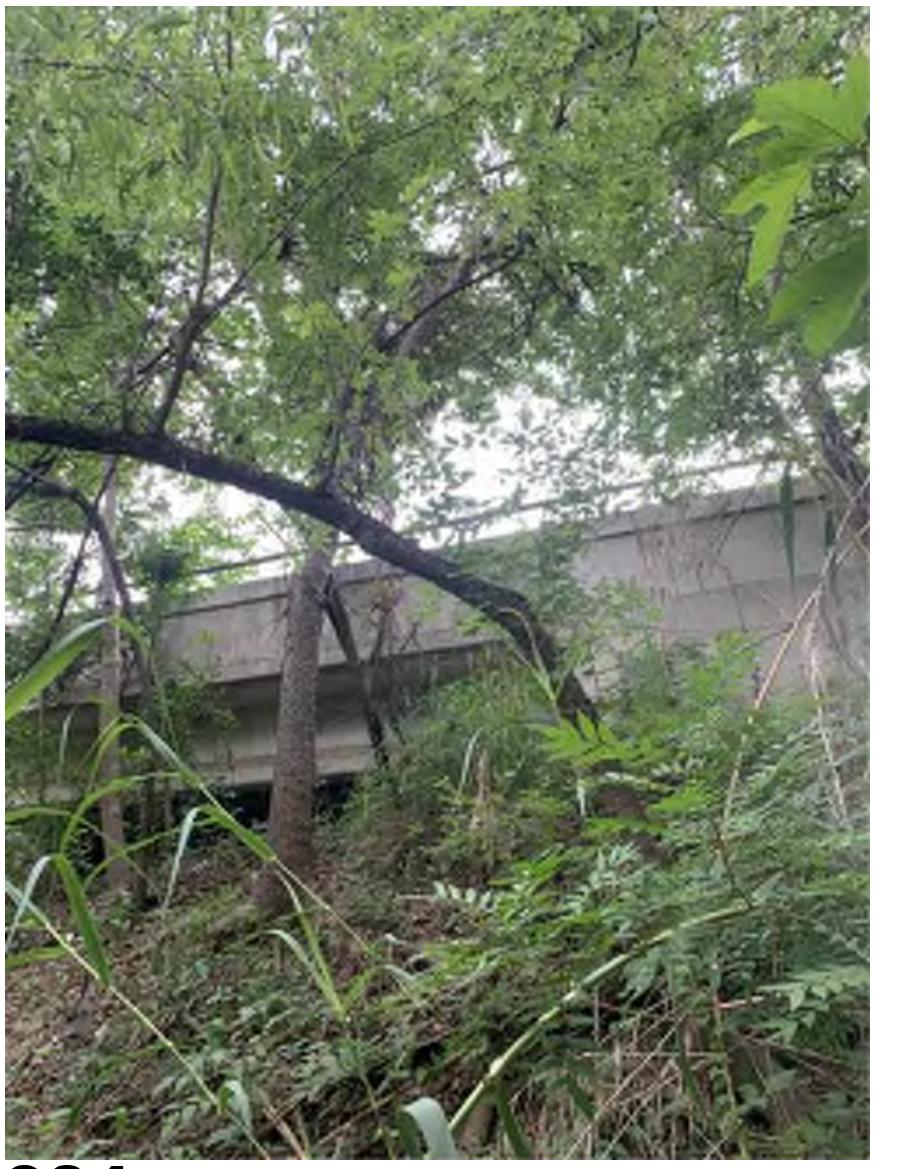
232

OAK | 3
TAG #3003
PRESERVED



233

ANAQUA | 3
TAG #3004
PRESERVED



234

OAK | 4
TAG #3000
PRESERVED



235

ANAQUA | 8
TAG #10427
REMOVED



236

OAK | 6
TAG #10426
REMOVED



237

HUISACHE | 5
TAG #10425
PRESERVED



238

YAUPON | 5
TAG #3017
REMOVED



239

MESQUITE | 2
TAG #10424
REMOVED



240

CREPE MYRTLE | 3
TAG #10421
REMOVED



241

YAUPON HOLLY | 2
TAG #10406
REMOVED



242

ELM | 1
TAG #10405
REMOVED



243

ELM | 4
TAG #10405
REMOVED



244

HACKBERRY | 2
TAG #10403
REMOVED



245

HACKBERRY | 4
TAG #10402
REMOVED



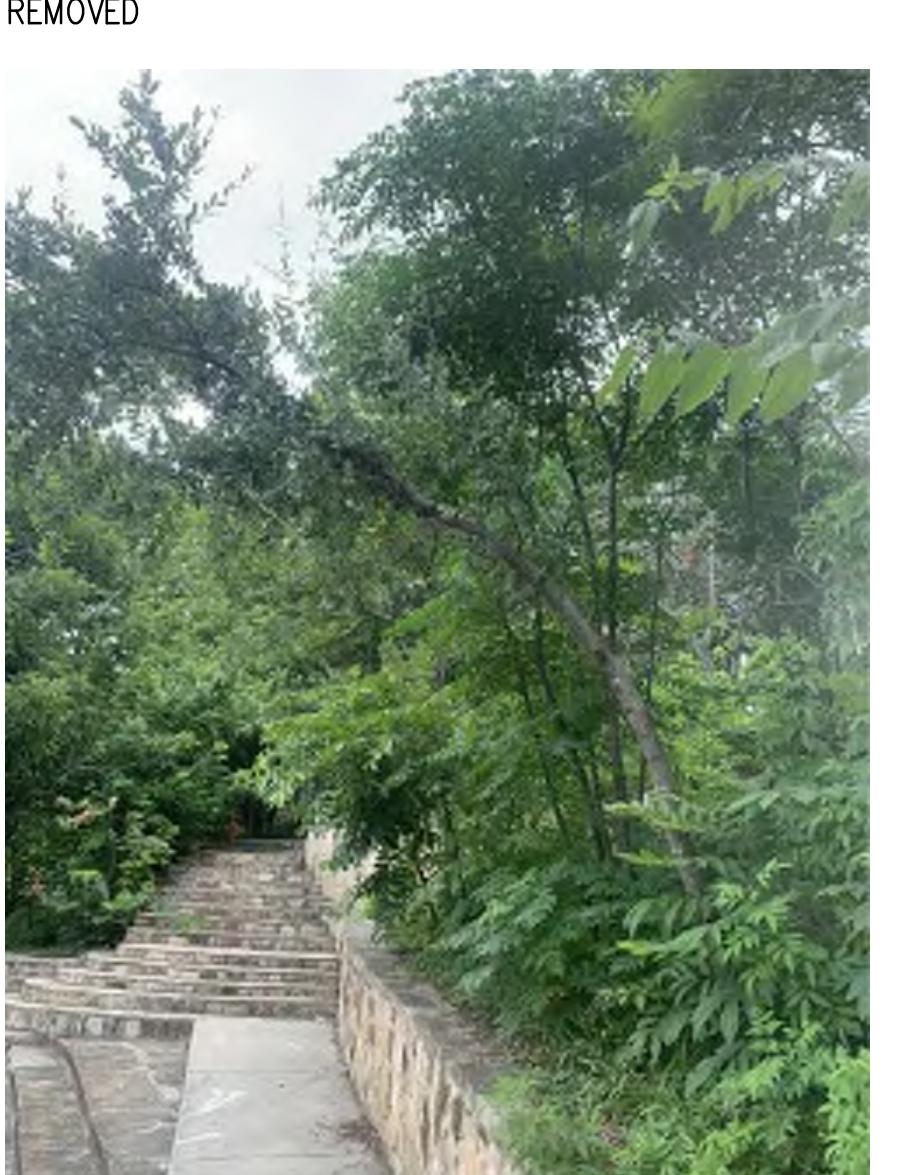
246

ELM | 2
TAG #10401
REMOVED



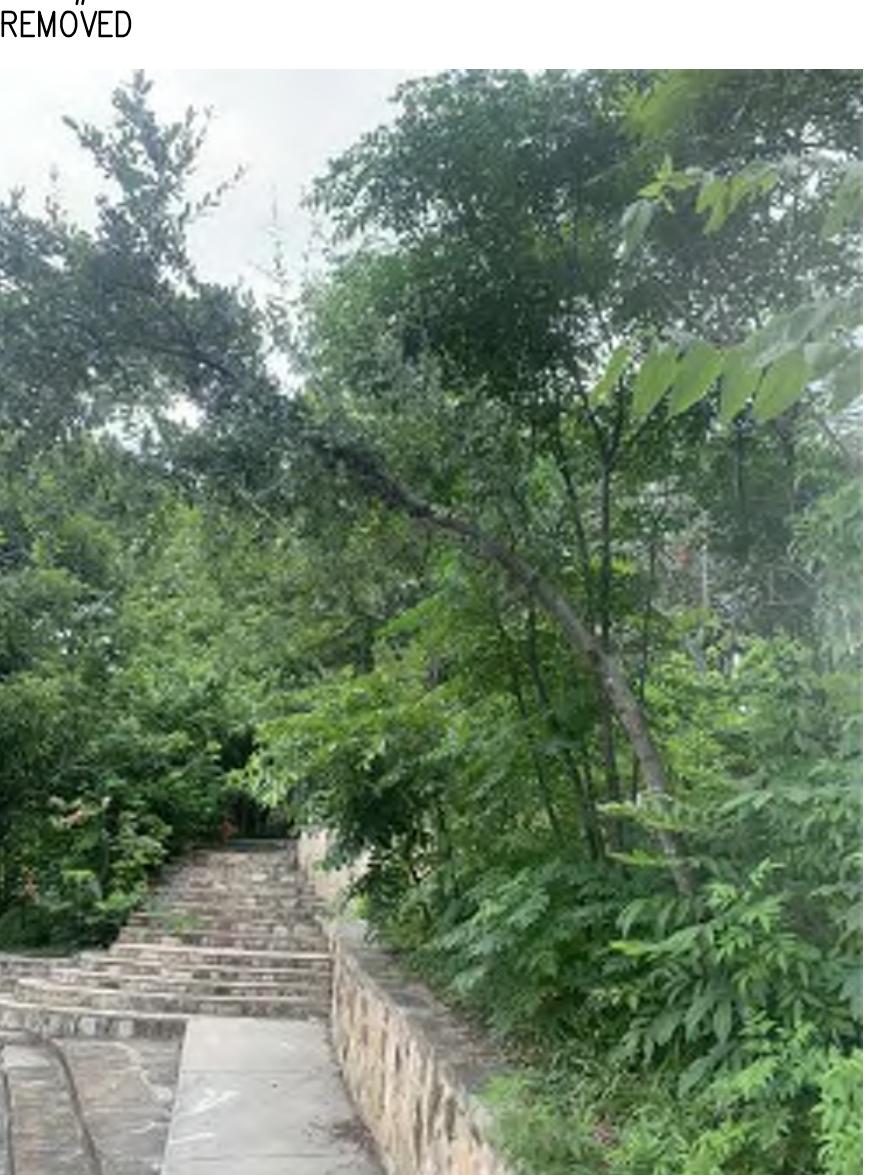
247

CYPRESS | 3
TAG #10423
REMOVED



248

HACKBERRY | 3
TAG #10422
REMOVED



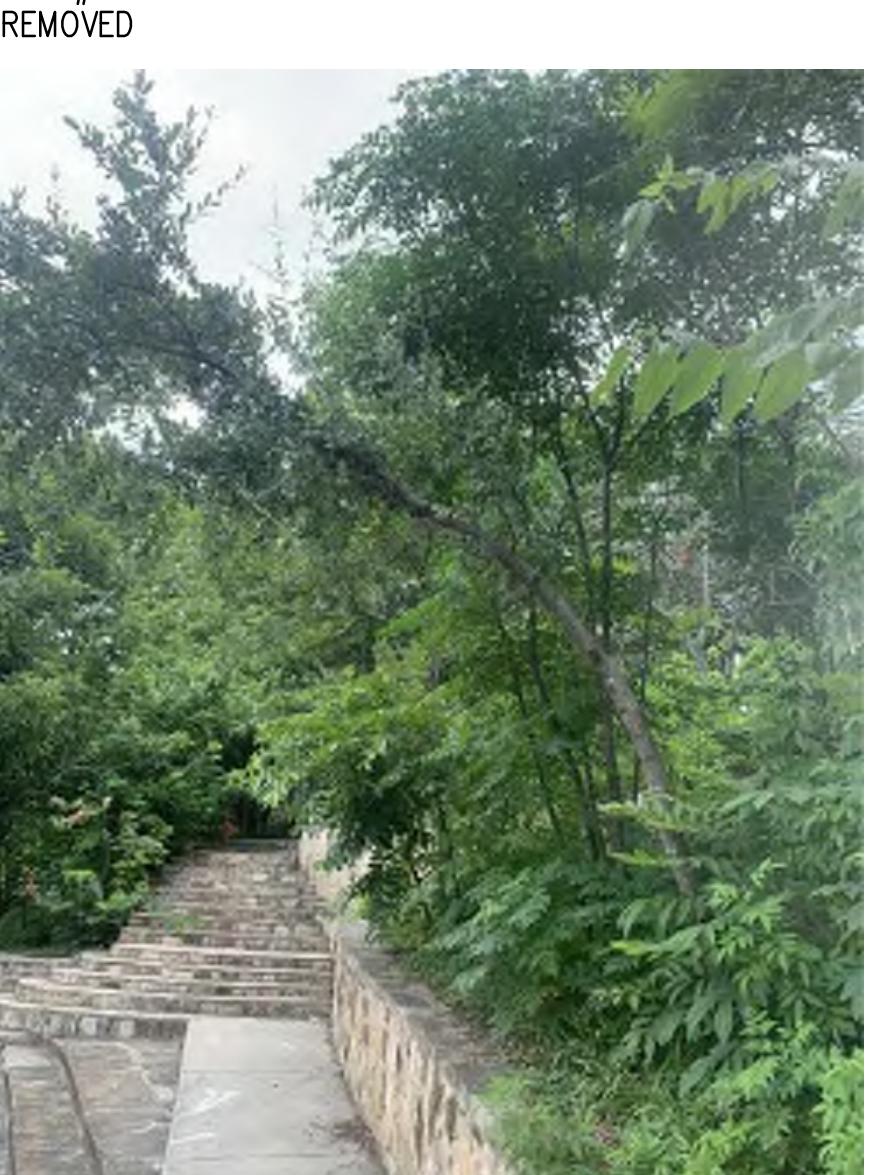
249

CHINABERRY | 4
TAG #10418
REMOVED



250

OAK | 4
TAG #10420
REMOVED



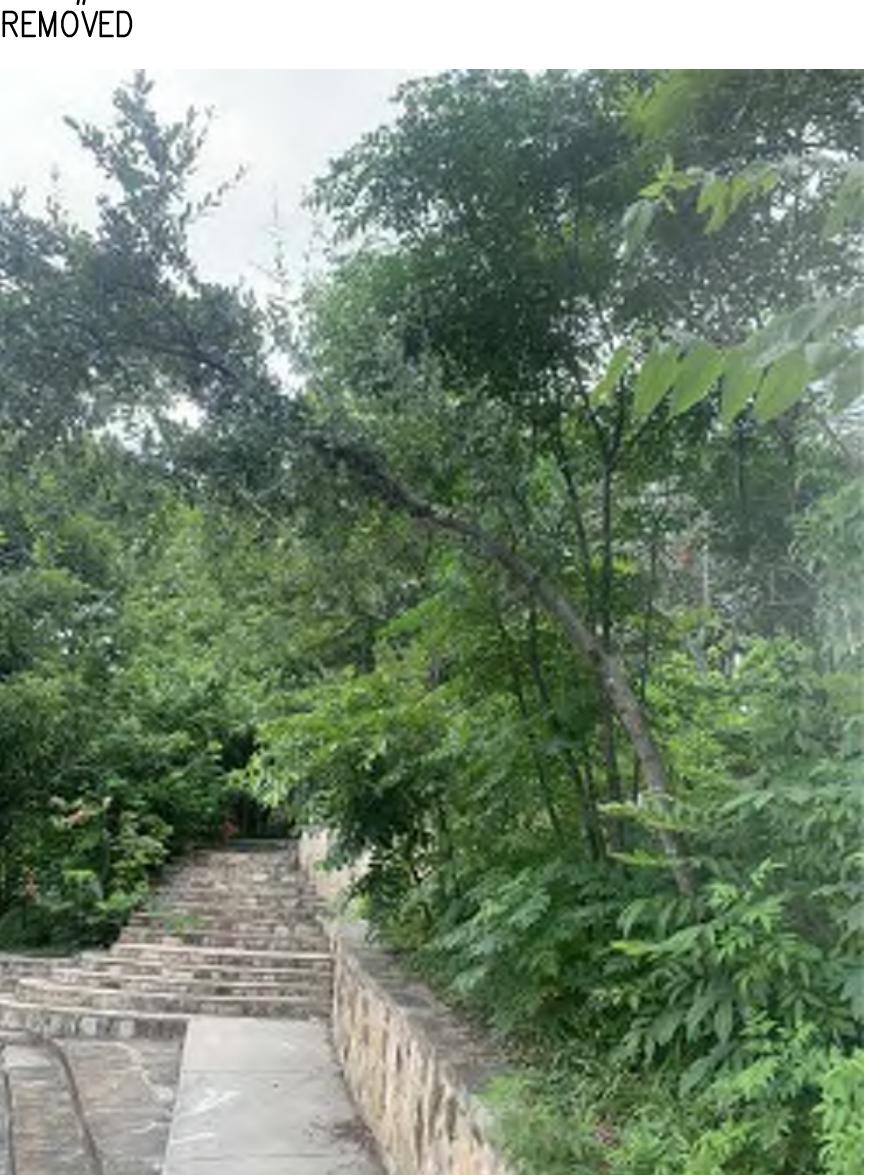
251

HACKBERRY | 2
TAG #10411
REMOVED



252

HACKBERRY | 4
TAG #10417
PRESERVED



253

PECAN | 4
TAG #10415
REMOVED

BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI)
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CIVIL ENGINEER

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SUITE 200, SAN ANTONIO, TX 78232

MEP

CNG ENGINEERING
1917 N. NEW BRAUNFELS AVE., SUITE
201, SAN ANTONIO TX, 78208

Stamp



Revisions

- 1
- 2
- 3
- 4
- 5

Date
20 JANUARY 2022
Phase
TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

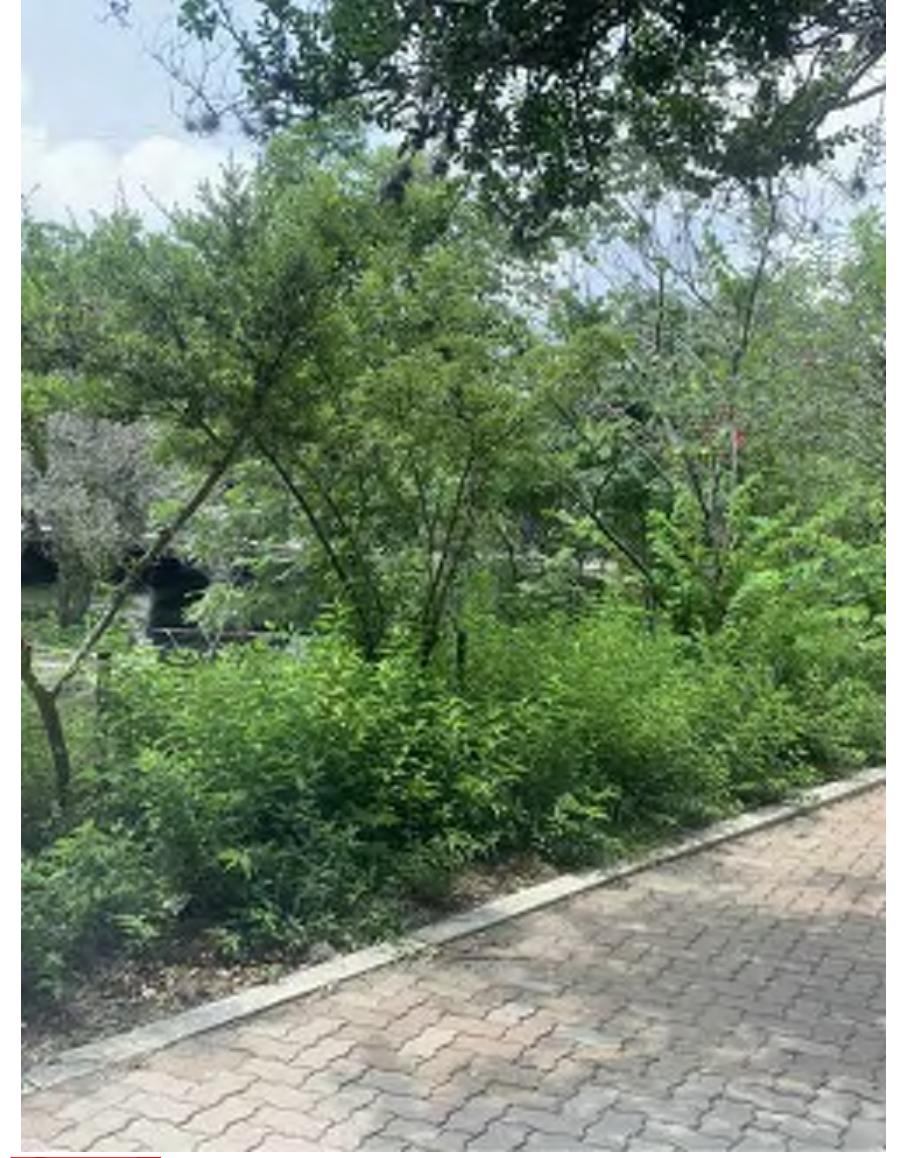
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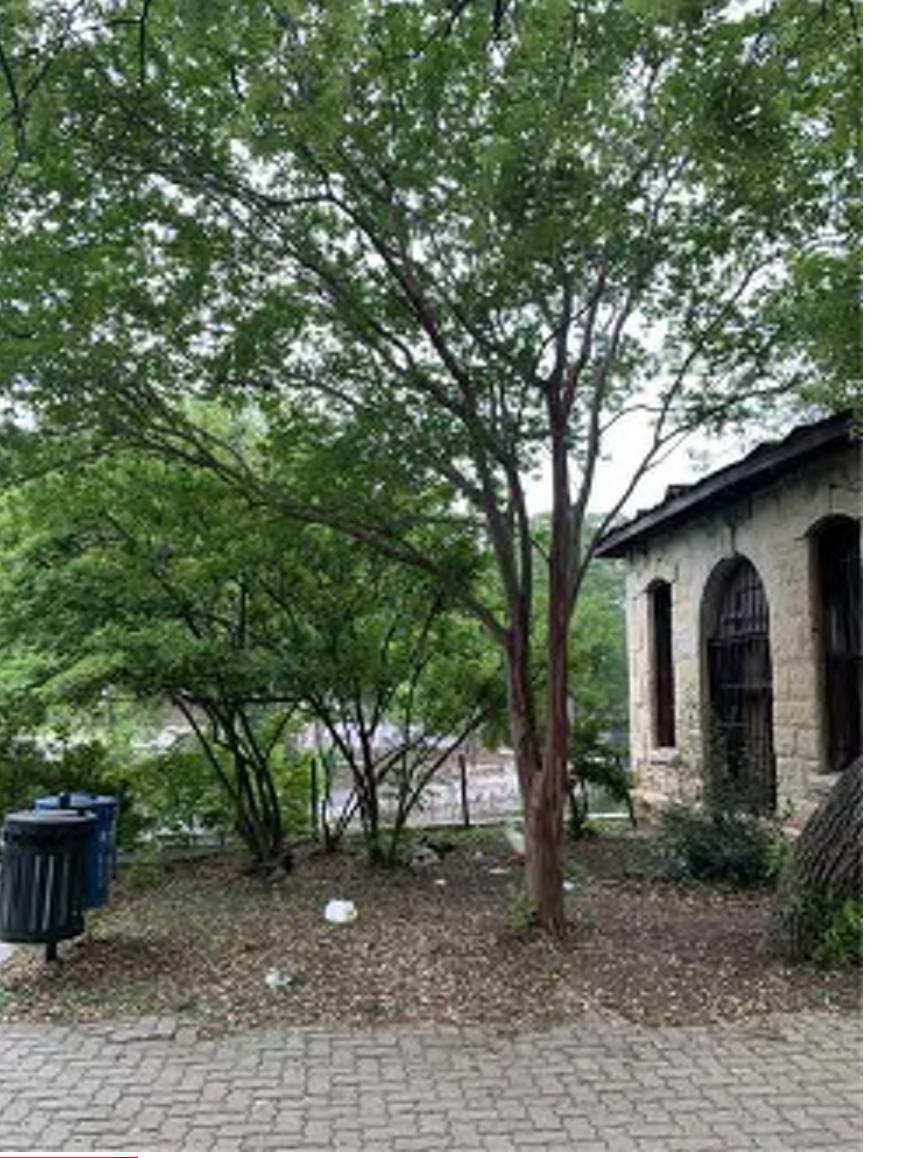
TREE SURVEY

Drawing Number

L1.12



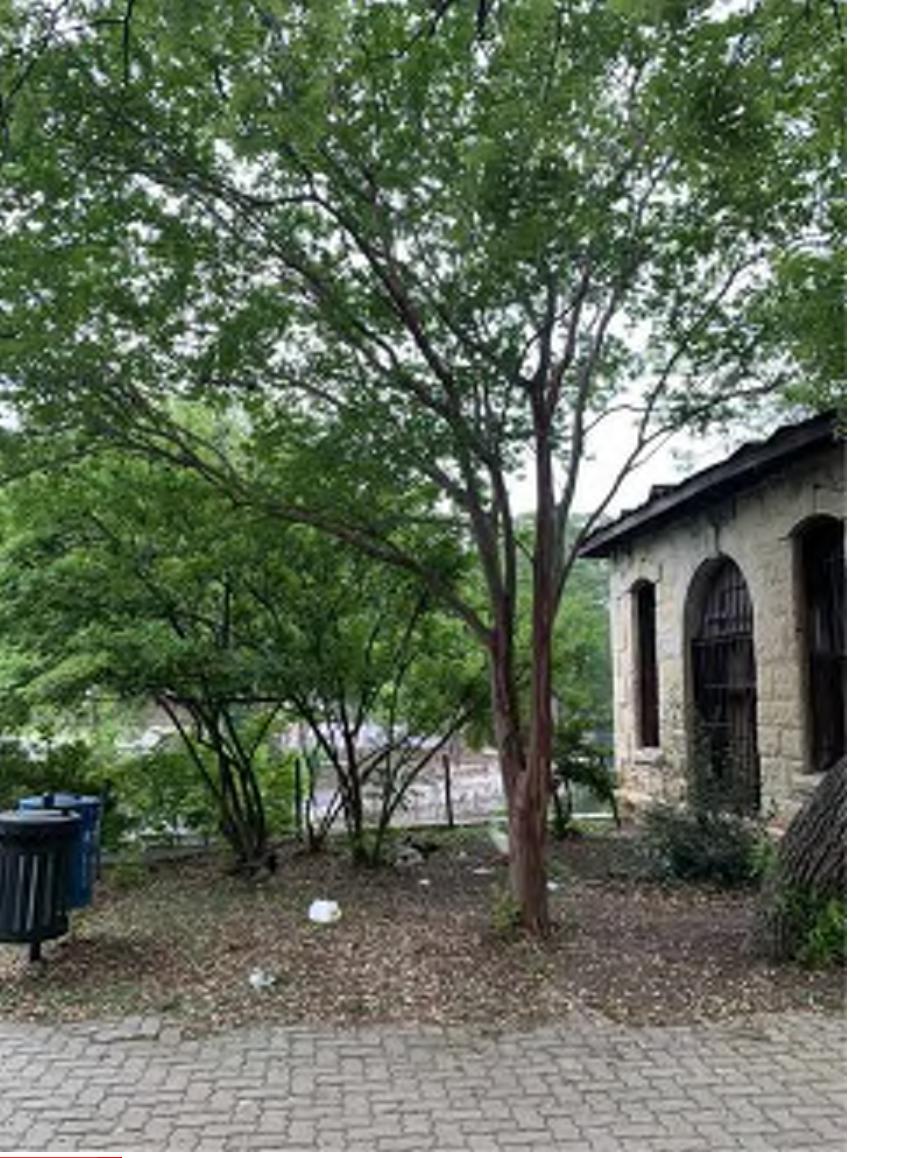
254
YAUPON HOLLY | 5
TAG #10400
REMOVED



255
CREPE MYRTLE | 4
TAG #3025
REMOVED



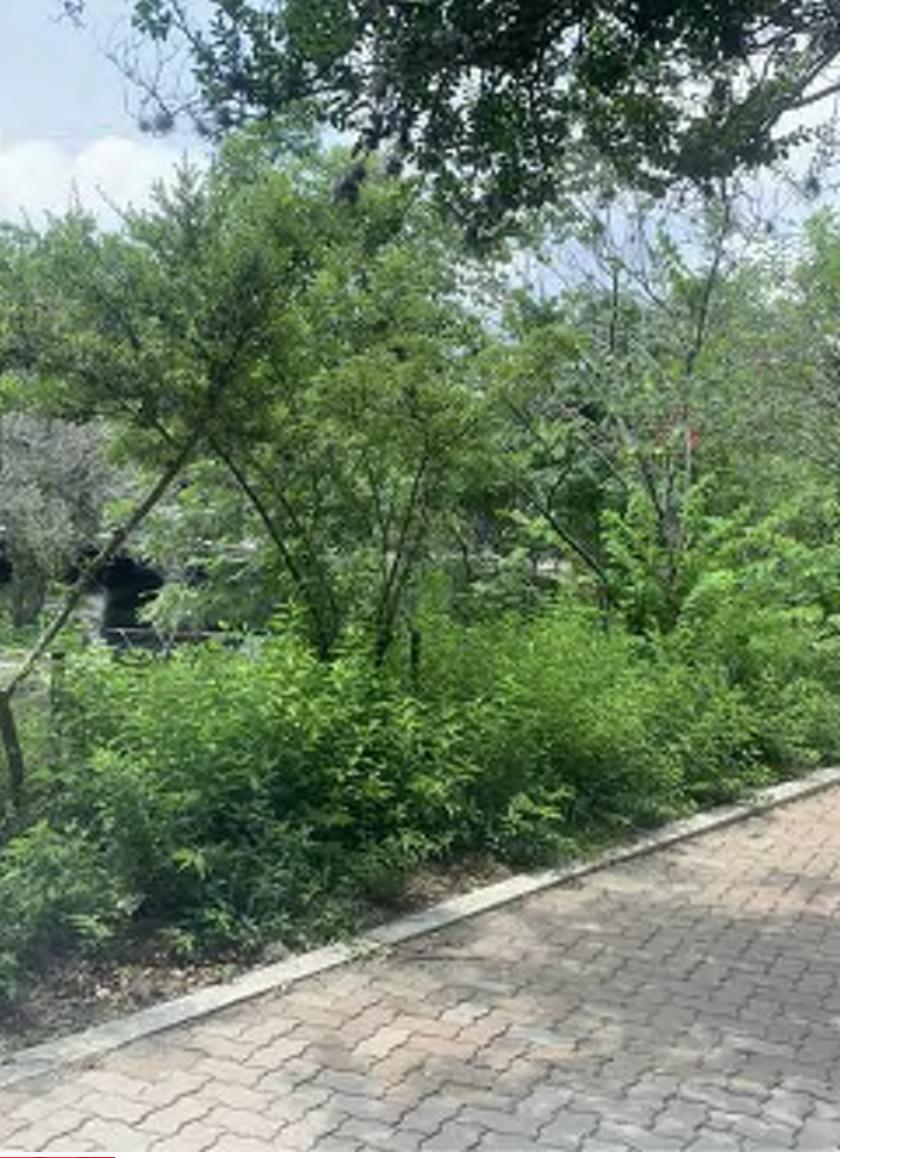
256
BUCKEYE | 5
TAG #3005
REMOVED



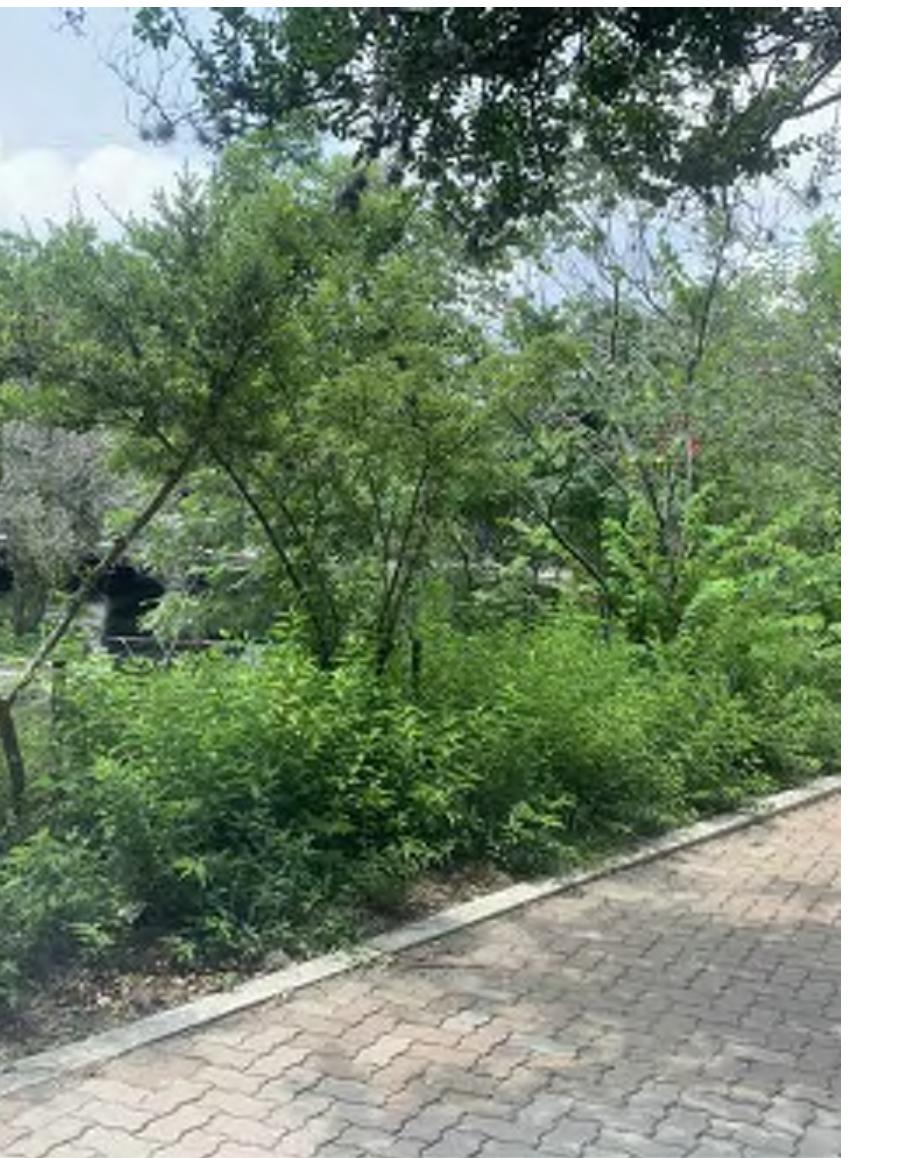
257
HACKBERRY | 9
TAG #3006
REMOVED



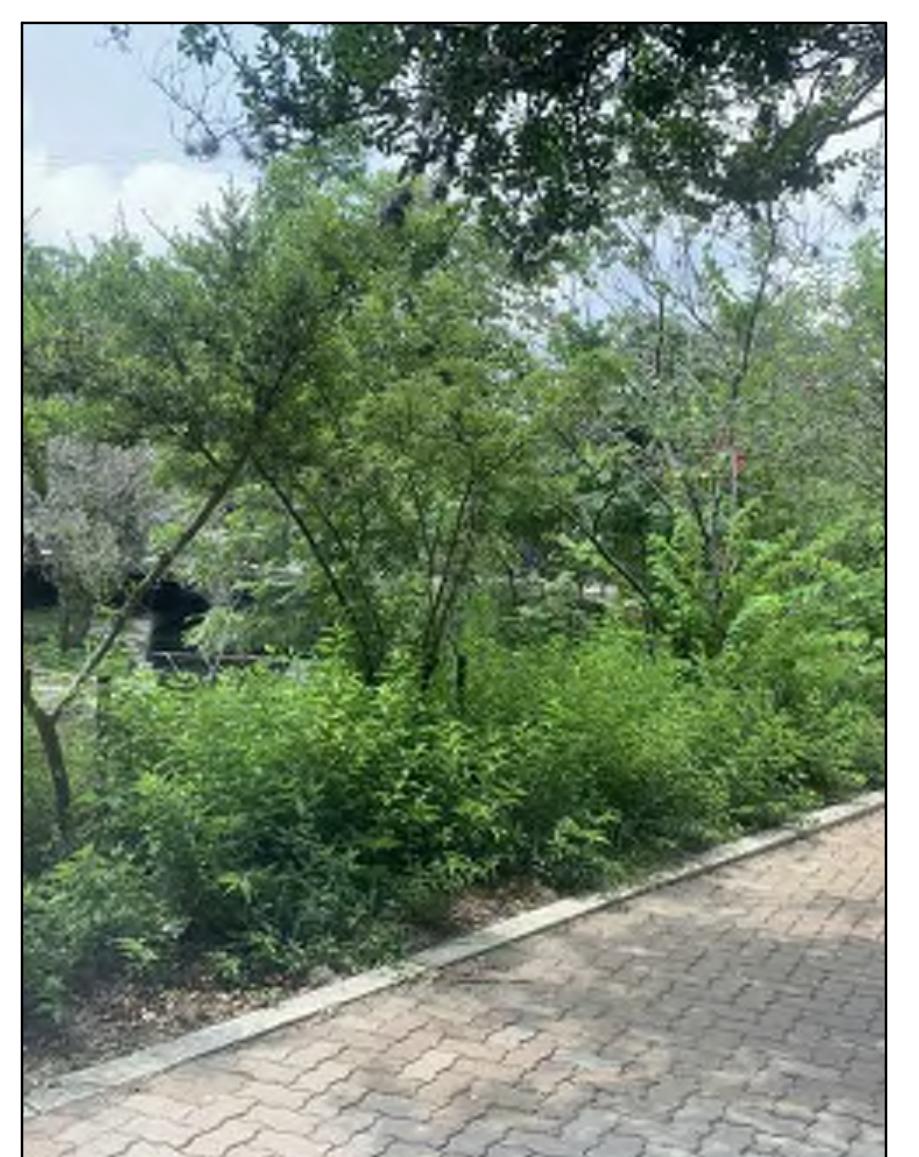
258
PECAN | 28
TAG #10431
PRESERVED, OUTSIDE LOW



266
MESQUITE | 4
TAG #10408
REMOVED



267
BUCKEYE | 8
TAG #10409
REMOVED



268
MESQUITE | 4.5
TAG #10410
REMOVED



269
BUCKEYE | 2
TAG #10411
REMOVED



270
HACKBERRY | 4
TAG #10412
REMOVED



271
HACKBERRY | 8
TAG #10413
REMOVED



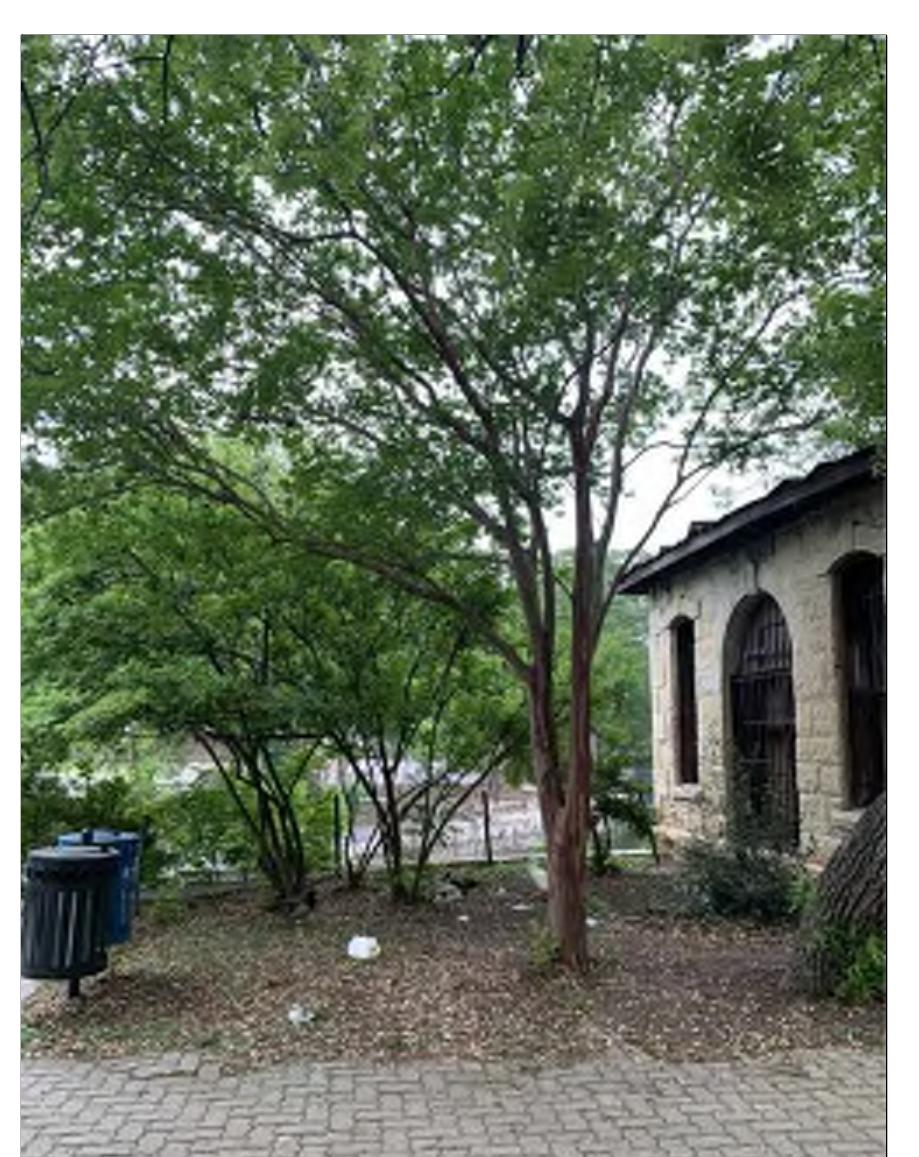
272
HACKBERRY | 3
TAG #10414
REMOVED



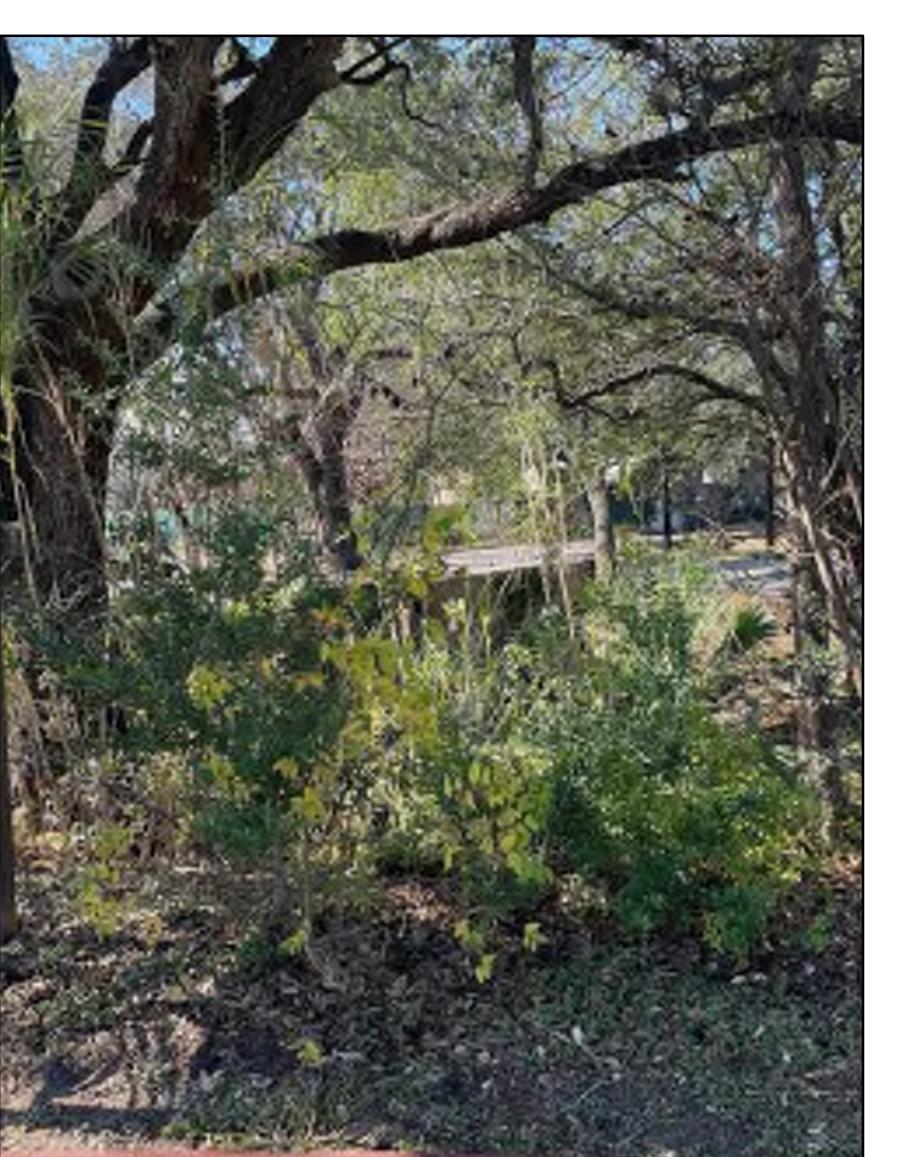
273
CREPE MYRTLE | 6
TAG #235
REMOVED



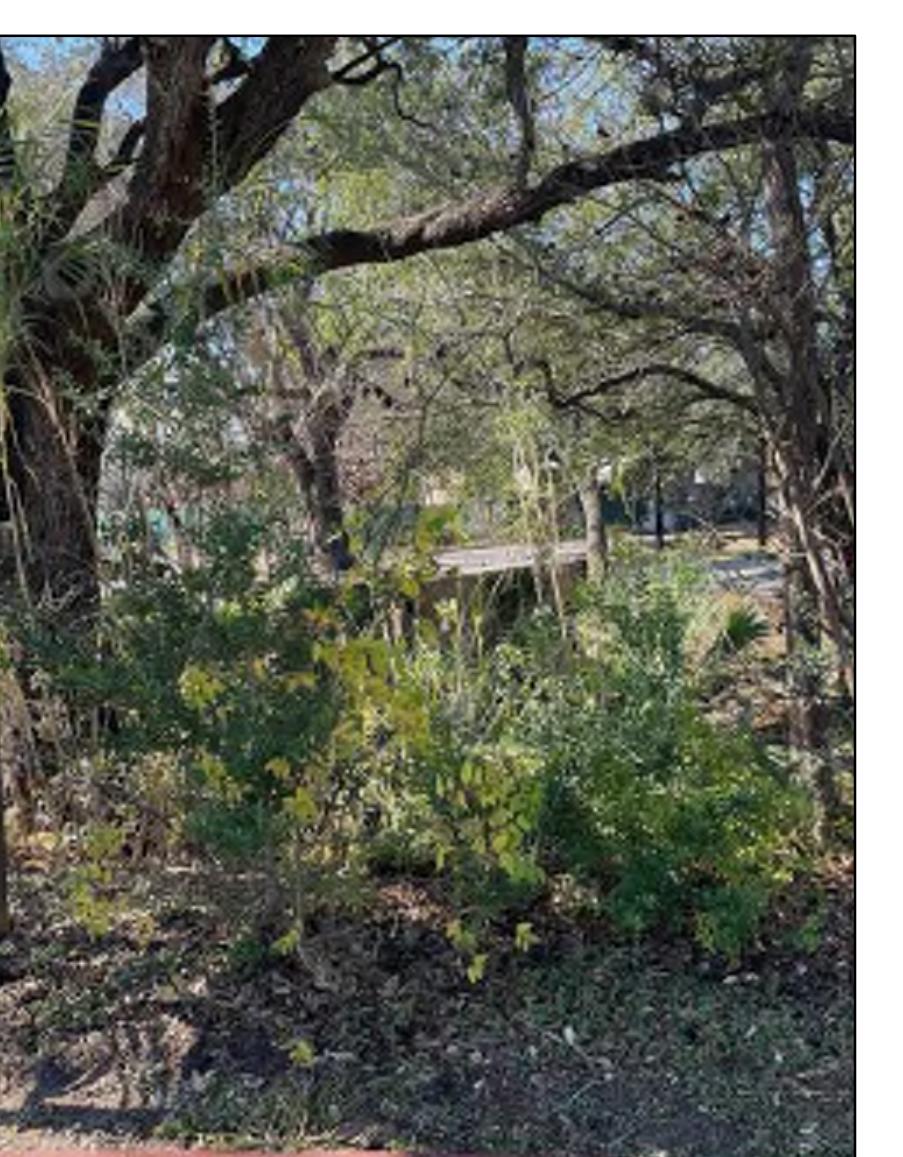
274
CREPE MYRTLE | 8
TAG #2370
REMOVED; DEAD



275
YAUPON | 2
NO TAG
REMOVED



276
BUCKEYE | 2
NO TAG
REMOVED



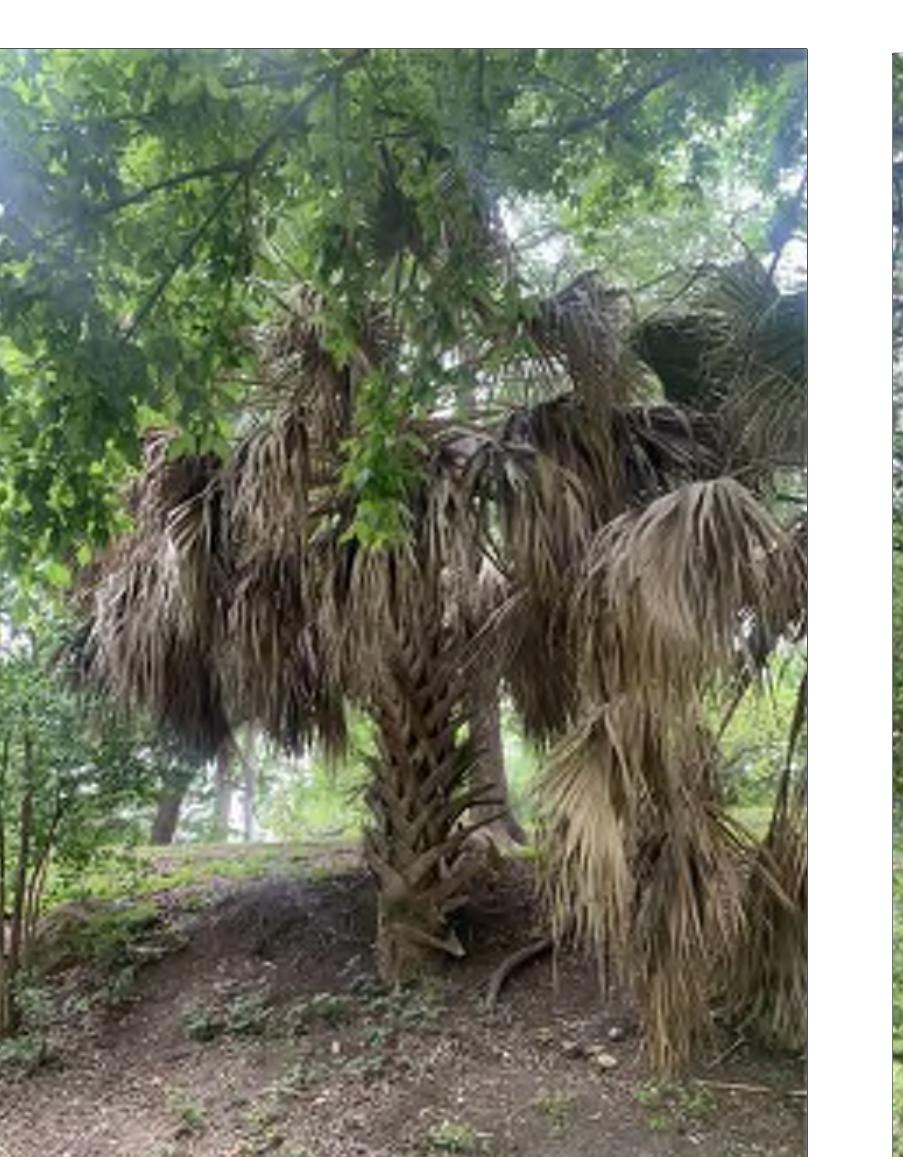
277
BUCKEYE | 2
NO TAG
REMOVED



278
CHINABERRY | 4
NO TAG
REMOVED



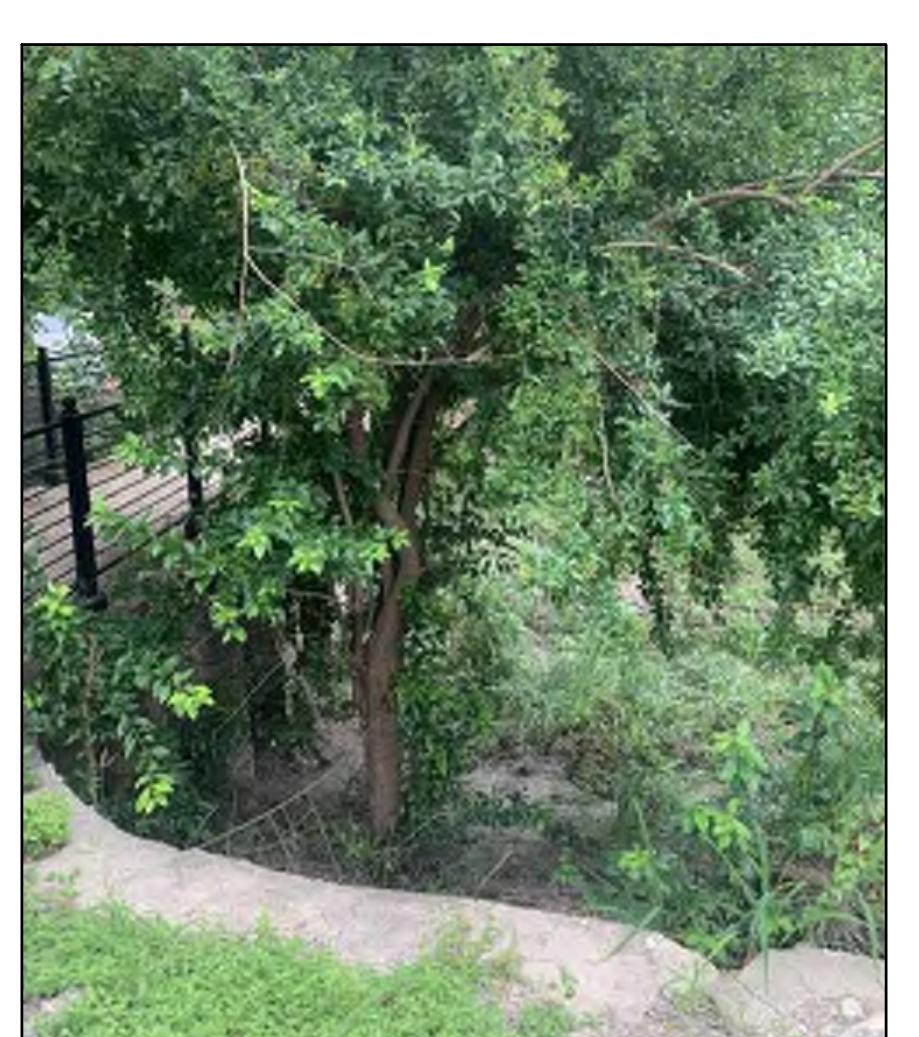
279
YAUPON HOLLY | 2
NO TAG
PRESERVED



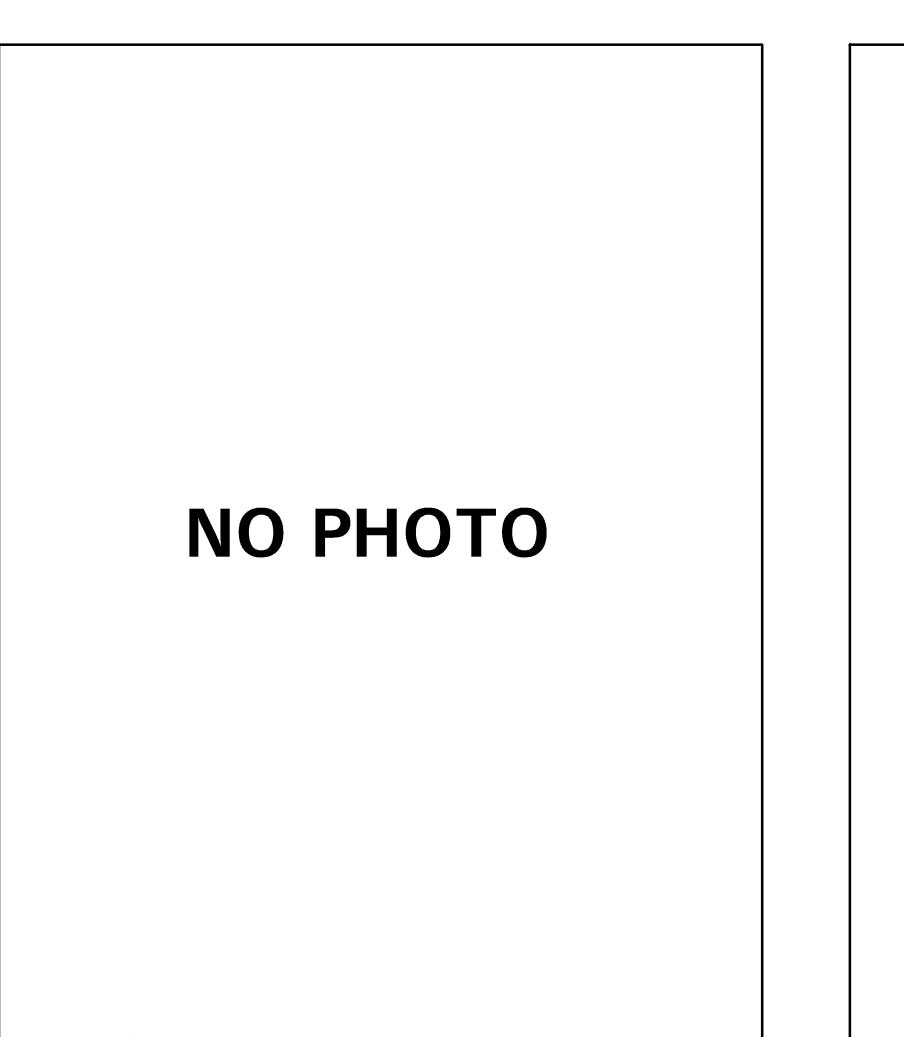
280
ANQUA | 2.5
NO TAG
PRESERVED



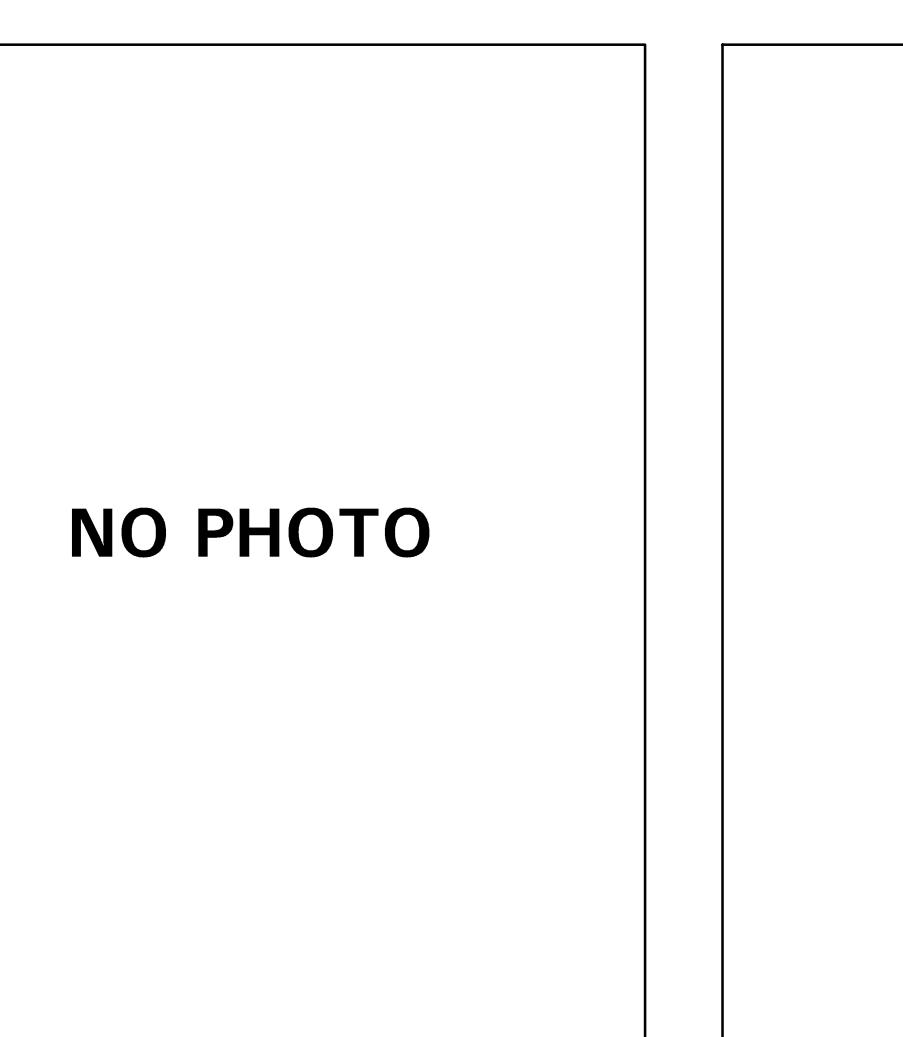
281
HACKBERRY | 3
NO TAG
PRESERVED



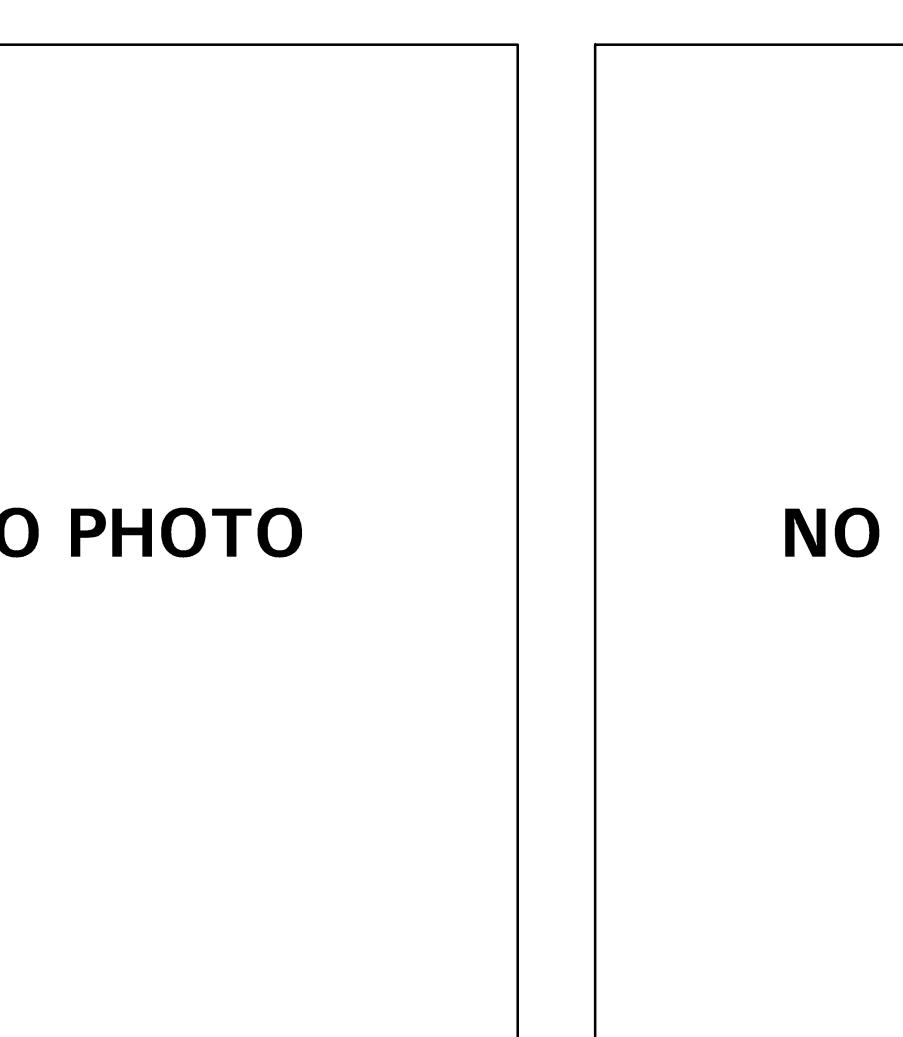
282
WILLOW | 4
NO TAG
PRESERVED



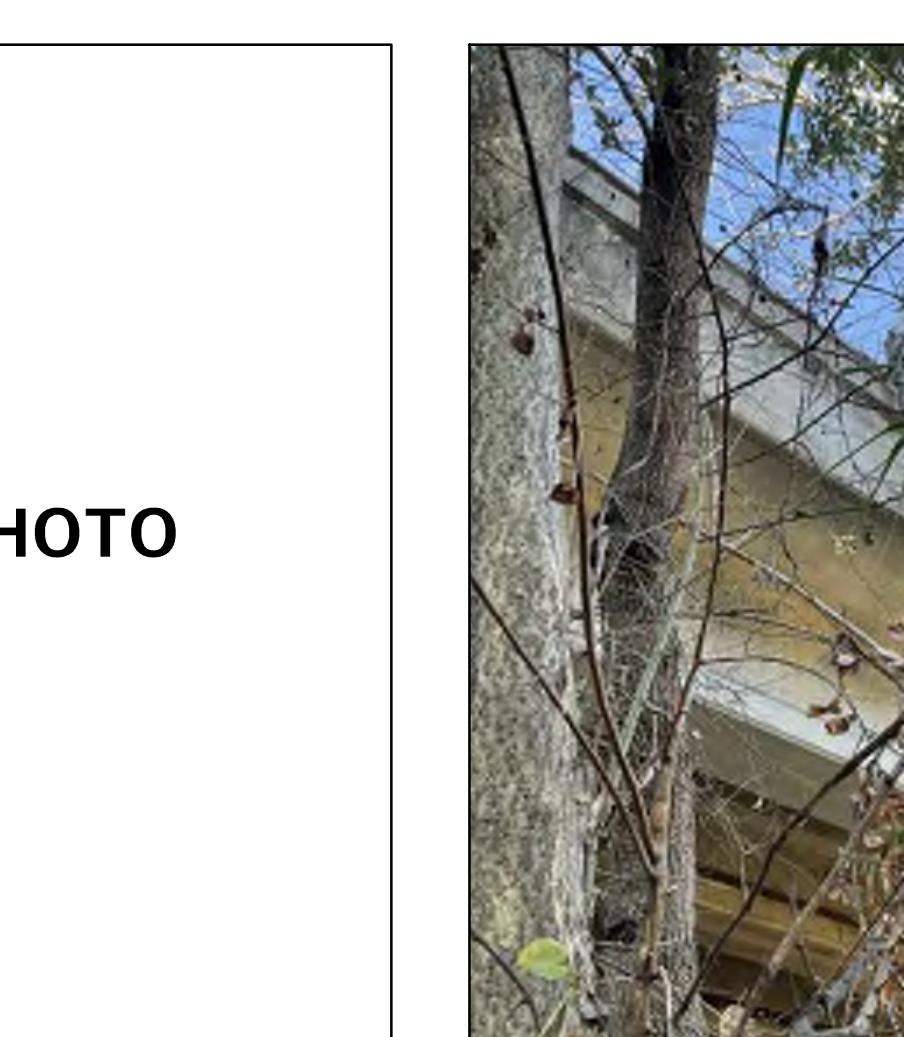
283
PAPER MULBERRY | 6
NO TAG
REMOVED; INVASIVE



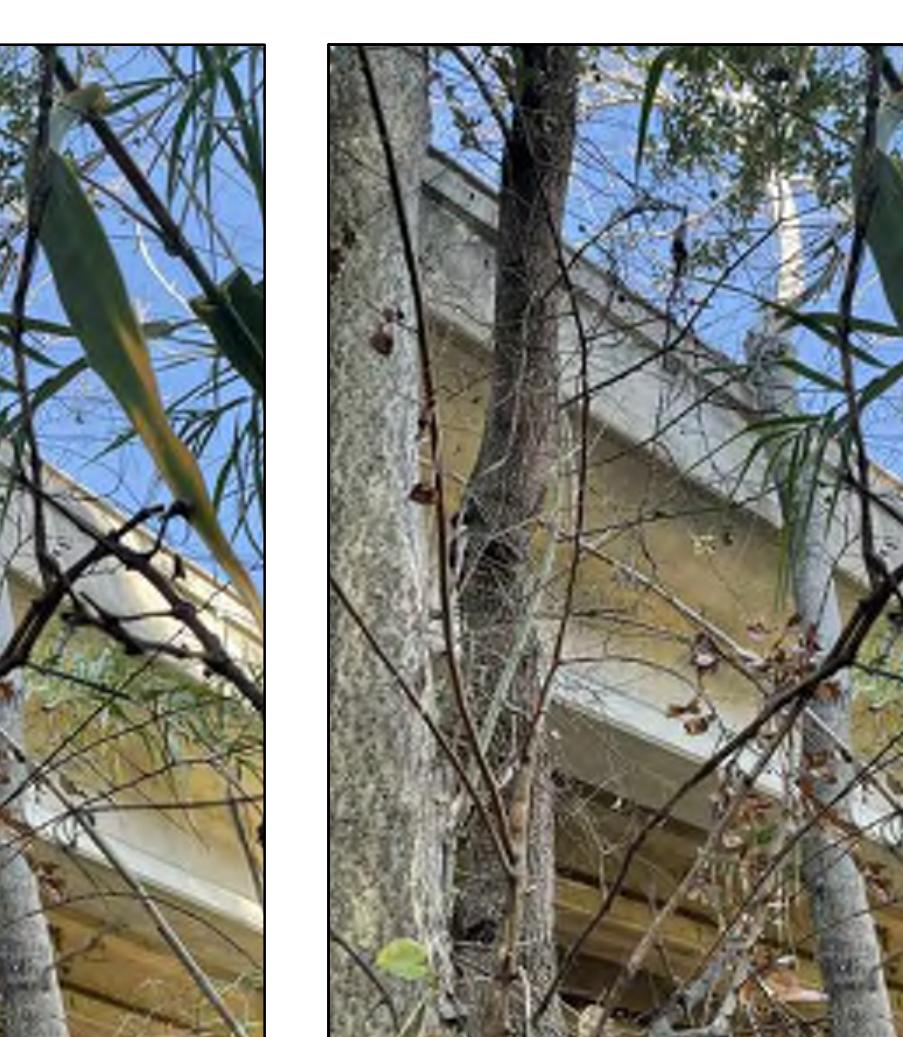
284
HACKBERRY | 2
NO TAG
PRESERVED



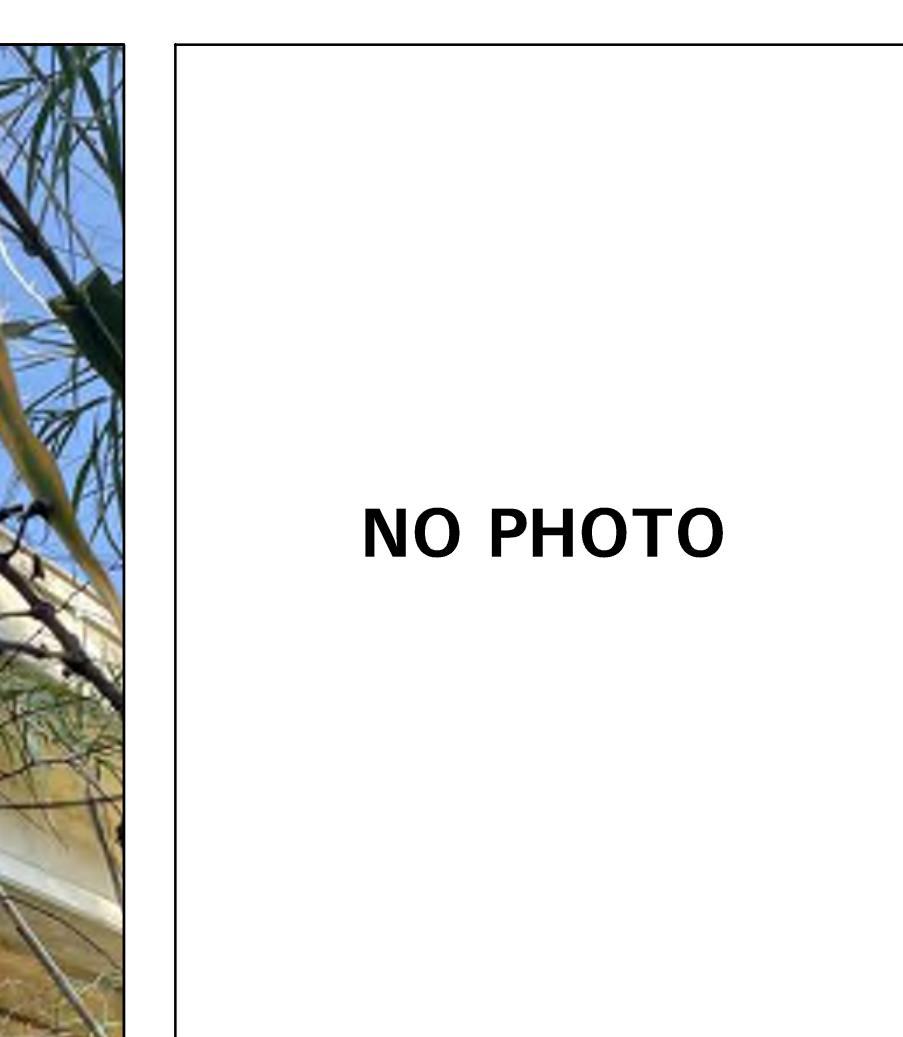
285
HACKBERRY | 2
NO TAG
PRESERVED



286
HACKBERRY | 6
NO TAG
PRESERVED



287
TREE OF HEAVEN | 2
NO TAG
REMOVED



288
TREE OF HEAVEN | 2
NO TAG
REMOVED



289
CREPE MYRTLE | 2
NO TAG
PRESERVED

Date
20 JANUARY 2022
Phase
TREE REMOVAL AND MITIGATION PERMIT
Job Number
CNOS701

Scale North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.12

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CITY OF SAN ANTONIO
**OFFICE OF HISTORIC
PRESERVATION**

Historic and Design Review Commission

Design Review Committee Report

DATE: February 9, 2022

HDRC Case #: 2022-079

Address: 3700 N St Marys, Brackenridge Park Meeting Location: Webex

APPLICANT: Jamaal Moreno/City of San Antonio - PWD

DRC Members present: Monica Savino, Gabriel Velasquez, John Lafoon, Jimmy Cervantes, Roland Mazuca, Lisa Garza (Conservation Society)

Staff Present: Shanon Miller (OHP), Cory Edwards (OHP), Edward Hall (OHP), Claudia Espinosa (OHP), Miranda Garrison (PWD), Mark Bird (DSD), Bill Pennel (Parks)

Others present: Richard Reed (River Road Neighborhood Association)

REQUEST: Tree Preservation Plan Including Removal and Mitigation

COMMENTS/CONCERNS:

BP: Overview of past development efforts, primary goals that were previously approved by council, overview of funding partners, overview of restoration of historic structures/site elements

BP: Existing trees have damaged and are currently jeopardizing historic structures and wall. Trees will continue to cause damage unless they are removed.

CE: Entire review will come to the HDRC in the future. Next week's review is for the removal of significant trees only.

JC: Questions about the number of heritage trees that will be removed

JM: 6 heritage trees along Lambert Beach will be removed. 2 will be preserved.

BP: Trees removal request at this time due to recommendations from TPWD and USFW to remove trees when impacts to migratory birds are lessened. Tree removal cannot take place when birds are nesting.

BP: 104 significant/heritage trees in the project limits. 13 trees have already been removed. 23 invasive/non native/diseased trees will be removed.

JC: Questions about the preservation of existing structures - how will non repair impact other parts of the park?

JM/BP - Park will be impacted to some extent with no maintenance/repair/reconstruction.

JC: What is the probability that the overall project stalls?

SM: Entire project is funded.

JL: Has root pruning/root barriers been considered instead of removal?

BP: Yes, but proximity of roots to historic walls is too close.

BP: Currently trees will be cut at grade and stumps will be removed when work on the walls begin.

BP: 400 to 600 trees will be planted

GQV: Has an archaeological survey/study been completed?

BP: Monitors will be required to be present.

GQV: Controversial concerns about archaeological objects that will be disturbed.

MS: Can staff provide an age date for each tree that will be removed? Is there an age range?

MB: Aging trees is a challenge. Estimation that trees date to the approximate age of the man made structures and walls. Trees most likely were not present during construction.

OVERALL COMMENTS:



January 31, 2022

Historic and Design Review Commission
Chairman Jeffrey Fetzer
Development and Business Services Center
1901 S. Alamo
San Antonio, TX 78204

Chairman Fetzer,

I am writing to express the San Antonio River Authority's (SARA) support for the Brackenridge Park 2017 – 2022 City of San Antonio Bond project. The project supports the City Council approved master plan and the Brackenridge Park Conservancy's Cultural Landscape Report. The Council approved Brackenridge Park master plan contains the following publicly supported strategies:

- *Restore natural park features and improve water quality*
- *Restore, preserve, and articulate park cultural and historical features*
- *Increase visibility and pedestrian access to and within the park*

The bond project employs these strategies aiming to preserve where possible and restore where necessary the Lambert Beach river walls and steps as well as other park features in the vicinity.

The Ecological Site Assessment section of the Brackenridge Park Conservancy's Cultural Landscape Report highlights the following issues, amongst others, in the same general area. The Cultural Landscape Report highlights the following strategies:

- *Establish more diverse riparian buffer to include grasses and midstory herbaceous plant community layers*
- *Discourage the feeding of wildlife*
- *Increase efforts to relocate the rookery*

The Description on page 34 of the Ecological Site Assessment describes the lack of grasses and midstory herbaceous plant community in the following manner:

EXECUTIVE COMMITTEE

CHAIRMAN

Jim Campbell

VICE-CHAIR

Gaylor J. Oehlke

SECRETARY

Deb Bolner Prost

TREASURER

Alicia Lott Cowley

MEMBERS AT-LARGE

Dominic Carvajal

Jerry G. Gonzales

BOARD OF DIRECTORS

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WILSON COUNTY

Dominic Carvajal

Derek J. Gaudlitz

KARNES COUNTY

H.B. Ruckman, III

Gaylor J. Oehlke

GOLIAD COUNTY

James Fuller, M.D.

Alicia Lott Cowley

GENERAL MANAGER

Derek Boese, JD, PMP

Midstory woody species and the herbaceous layer are largely absent. In particular, perennial, densely rooted, grasses that play an important role in soil building, infiltration and water cleansing are absent. The herbaceous layer that is present is predominantly the non-native Bermudagrass. The site has a significant amount of bare soil (>50%). Soils retain a reasonable amount of organic matter (~5%). However, the soils are compacted and have poor structure which is associated with reduced infiltration rates, permeability (capacity of the soil to conduct water), increased runoff and resistance to root growth. Moderate to severe sheet erosion is evident between the road and the river, with rills forming. Lambert Beach, across the river, is in a similar condition. The lack of healthy bottomland and riparian plant communities and soils compromise river health in several ways. The river receives a higher volume of runoff more quickly after rain because the bottomland communities cannot absorb it. The water quality is lower because contaminants are not filtered before reaching the river

The plant community is at risk. Few species are present making the community unable to respond to changing conditions and less able to perform basic ecological functions such as nutrient cycling, energy capture and mediating infiltration and runoff. Young and middle aged individuals to replace the current generation are absent. Bare soil temperatures fluctuate more than covered soil, stressing roots. Compacted soil limits root growth and the soil's ability to store water and gasses, further stressing plants. The lack of structural diversity, i.e. the missing midstory and herbaceous layer, puts both the plant community and the river bank at risk. Mature trees can hold through many flood events, however they can fail under enough pressure. Young saplings and herbaceous plants lay down during high flow events and can often stay in place. Additionally, tree roots tend to spread out at the surface, while grasses and sedges develop dense networks of fibrous roots that intertwine providing high stability. Riparian buffers containing both herbaceous and woody vegetation are more stable.

Continuing, the third full paragraph on page 36 of the Ecological Site Assessment states:

Area A is experiencing considerable pressure from the Rookery located in the area. The high concentration of avian waste from the Rookery is likely reducing water quality as well as degrading human experience of the site by creating unsanitary conditions and an unpleasant smell. The existence of such a dense concentration of birds in a high use area is not ideal, and it is recommended the rookery be encouraged to relocate to a lower use area. The park and zoo are employing harassment techniques to make the area less attractive for the rookery, with limited success. The next option would be to increase habitat value in a more appropriate

1/31/2022

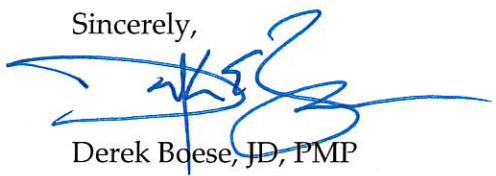
HDRC Chairman Fetzer

Page 3

location, while decreasing it in the current location by discouraging feeding, dislodging nests prior to egg laying and modifying the plant community.

The bond project is supportive of the community-based master plan and landscape report and the voters of San Antonio overwhelmingly approved the project in the bond election. For these reasons the River Authority supports the 2017-2022 Brackenridge Park bond project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Derek Bqese".

Derek Bqese, JD, PMP

B

BRACKENRIDGE PARK
C O N S E R V A N C Y

Jan. 31, 2022

Mr. Erik Walsh
City Manager
City of San Antonio
PO Box 839966
San Antonio, TX 78283

Dear Mr. Walsh:

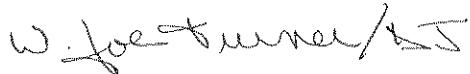
The Brackenridge Park Conservancy is in support of the Capital Bond Project that was voter-approved in 2017 for Brackenridge Park. This Bond Project is being managed and completed by the City of San Antonio Parks and Recreation Department and the Public Works Department.

This Bond Project is supported by the Brackenridge Park Master Plan after extensive public input and was approved by the City Council in 2017. In addition, the improvements align with the Cultural Landscape Report that was completed on the Park in 2019 by the Brackenridge Park Conservancy in collaboration with the City of San Antonio and the San Antonio River Authority.

The natural and cultural resources of the Park are in serious and immediate need of restoration and repair. The Bond Project is investing in improvements in about six acres of the Northern area of the Park, including Lambert Beach river walls, the Pump House, the Raceway, Upper Labor Acequia, and the Upper Labor Dam that are in disrepair.

The Brackenridge Park Conservancy supports the projects and recognizes that the implementation of the improvements must strive to balance the competing needs of nature and people using the Park. With the Cultural Landscape Plan as a guide, we look forward to working with the City of San Antonio and the community to develop a comprehensive ecosystem restoration plan for the river and other natural habitats within the Park to showcase the value of this urban park in the larger landscape of the San Antonio River Watershed.

Sincerely,



W. Joe Turner
Executive Director

CC: Homer Garcia III
Melinda Cerdá
Bill Pennell



To Whom It May Concern:

I am lucky to have lived most of my life in San Antonio. As I have grown older, I have gained a greater appreciation for the history of this amazing city. I visited Brackenridge Park in the 1970s as a child, and I have brought my children here for the last 20 years as well. More recently I began working at the historic San Antonio Zoo, another San Antonio historic treasure nestled within a former quarry in and on the edge of Brackenridge Park.

I have now worked at San Antonio Zoo and in my role for seven years, and I am often in the park. Once I began working in the park I learned much more about its history. I have gained a new appreciation for this park and what its source of and connection to water have meant to the development of our city.

Sadly, time and lack of attention has taken its toll on many of the historic structures and features. The very first industrial building in San Antonio sits here, the former gathering place known as Lambert Beach, the Bath House, Pump House, hand-carved work of Dionicio Rodriguez, acequia, the upper dam and more. Each of these are in desperate need of restoration to better project and interpret their stories.

Currently, we see broken windows, failed roofs, failing river walls, buried historic features and conditions bordering on the edge of dangerous. I have been very encouraged by the planning and focus of recent bonds to restore the historic park features and support those efforts for our community and future generations.

Sincerely,

A handwritten signature in black ink, appearing to read "Tim Morrow".

Tim Morrow
President & CEO
San Antonio Zoo



Erik Walsh
Office of the City Manager
PO Box 839966
San Antonio, Texas 78283

Dear City Manager Walsh,

The Witte Museum has long been a supporter of ecosystem restoration in Brackenridge Park. As a Museum where Nature, Science and Culture meet, the Witte stands strong on using scientific and historic evidence to determine what is indigenous, historical, and invasive for environmental and historic stewardship.

The Witte especially supports the goals of the 2017-2020 Bond Project to:

- Restore natural park features and improve water quality
- Restore, preserve and articulate park cultural and historical features
- Increase visibility and pedestrian access to and within the park

We also support the focus on restoring river walls from the 1900s, stabilizing the pump house from the 1870s and rehabilitating the historic acequia and the 1776 upper labor diversion dam.

We do understand that 104 trees, considered invasive, will be removed, though 220 trees will be planted in the project area once construction is completed. We do hope the additional 9 heritage trees set for removal can be moved, if possible, rather than destroyed. At minimum, we hope the wood of legacy trees can be harvested and repurposed.

The Witte Museum is here to provide spaces for public conversations on these critically important plans to restore the environmental and cultural ecosystems of beloved Brackenridge Park.

Sincerely,

Marise McDermott
President and CEO

cc: Ryan Berg, Chair, Witte Board of Trustees

February 1, 2022

Dear Members of the San Antonio Historic and Design Review Commission,

My name is Allison Cohen. I am from District 10 and I am the chairperson of the San Antonio Parks and Recreation Board. Thank you for serving your community by participating in your roles as commissioners on this review panel.

I write to you in support of granting the City of San Antonio's Public Works Department a Certificate of Appropriateness for approval to execute a Tree Preservation Plan in Brackenridge Park as part of the 2017-2022 Brackenridge Park Bond Project.

The Tree Preservation Plan calls to remove non-protected and invasive species, and declining trees, as well as, more controversially, heritage trees and significant trees located along the riverbank that are impacting the channel walls. Tree removal is necessary because a number of trees are causing damage, and in some cases, complete breakdown of the historic river walls and cultural structures at the park.

Additionally, as part of the plan, the City has hired the US. Department of Agriculture and are coordinating with the Texas Parks and Wildlife Department and U.S. Fish and Wildlife Service to facilitate necessary migratory bird habitat modification and deterrent techniques to prevent rookeries from developing and causing unhealthy environments. Over the course of the last five years, San Antonio Parks and Recreation has maintained ongoing attempts to help reduce impacts caused by the large colonies of migratory birds at the park.

The City spared no effort to come up with the most thoughtful tree removal plan with the best possible outcome to maintain the character, improve the condition, and prolong the longevity of Brackenridge Park and its features for San Antonio citizens and visitors.

Parks and Recreating Department Director, Homer Garcia, and his staff presented the project plan to our board recently and explained how many new trees will be planted in response to tree removal. The City Arborist has recommended the appropriate mitigation amount in compliance with the City's tree preservation requirements, but you should know the City plans to go above and beyond the requirement by planting 200-400 additional trees within Brackenridge Park.

I support preventing further decline of Brackenridge Park with the help of the Tree Preservation Plan and addressing the migratory bird rookeries.

Please vote to pass the Certificate of Appropriateness for approval to execute the Tree Preservation Plan for Brackenridge Park.

Thank you for your time.

Sincerely,

Allison Cohen
Chairperson, San Antonio Parks and Recreation Board
District 10