

**Notes:** CPS Energy proposes to clear a swath of vegetation for the installation and maintenance of a new transmission line along the proposed alignment, per North American Electric Reliability Corporation (NERC) requirements, to allow for "blowout" of the installed lines. Work will be conducted as per the standard operating procedures agreed upon by the City of San Antonio and CPS Energy. Eighteen (18) heritage trees exist in the vicinity of the project alignment. Eight (8) of the heritage trees will require removal. Root or pruning cuts, when necessary, will be cut cleanly and painted as per COSA's guidelines. Floodplain and environmentally sensitive areas (ESA) are present on site.

Heritage Trees			
Tree ID	Species	DBH (inches)	To Be Removed?
176	Mesquite	31.0	No
177	Mesquite	24.0	No
178	Live Oak	45.0	Yes
179	Cottonwood	30.0	No
184	Cottonwood	29.0	Yes
188	Live Oak	50.0	Yes
189	Live Oak	42.0	Yes
190	Live Oak	39.0	Yes
191	Live Oak	33.0	Yes
192	Post Oak	34.0	No
193	Live Oak	35.0	No
194	Live Oak	27.0	No
195	Post Oak	31.0	Yes
197	Live Oak	26.0	No
199	Live Oak	25.0	No
200	Live Oak	40.0	No
001	Live Oak	26.0	Yes

## T-0327 Padua BESS

December 4, 2023

- ▲ Heritage Trees
- ▲ Heritage Trees - OLOWZ
- Study Area
- Canopy to be Preserved
- Canopy to be Removed
- 100-Year Floodplain
- Environmentally Sensitive Area (ESA)



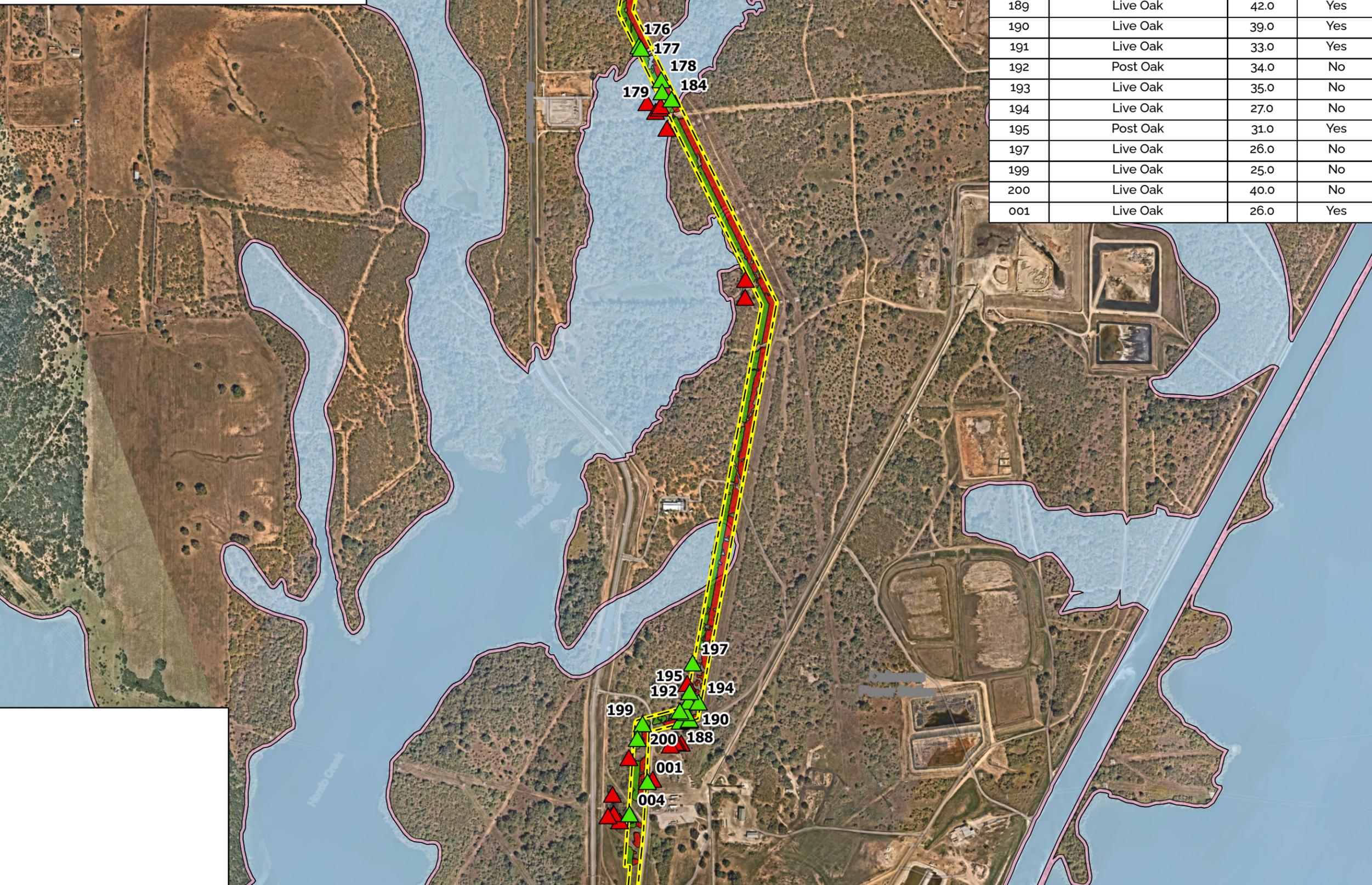
**ADAMS ENVIRONMENTAL, INC.**  
EST. 1996  
12521 Nacogdoches Road, Suite 102  
San Antonio, TX 78217  
PH: (210) 858-6873  
FAX: (210) 587-7922  
mkitchen@adamsenv.com



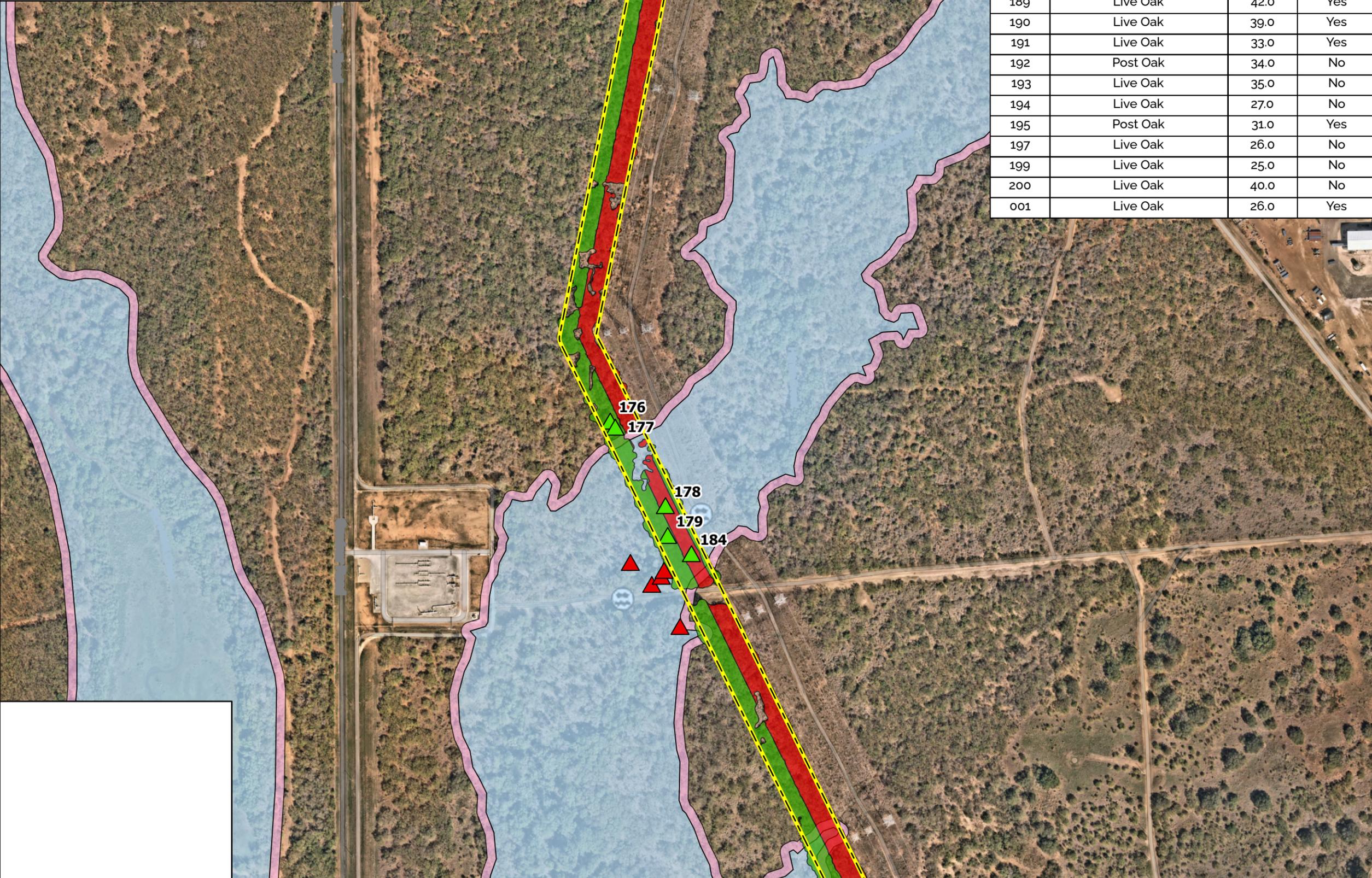
### Vicinity Map



Tree Preservation Calculations				
Total Canopy Within Floodplain (sq ft)	126,543			
Canopy to Remain	84,077			
Canopy to Remove	42,466			
Canopy Preserved Within Floodplain	66%			
Total Canopy Within Buffer (sq ft)	39,985			
Canopy to Remain	28,949			
Canopy to Remove	11,036			
Canopy Preserved Within Buffer	72%			
Total Significant Canopy Outside Floodplain/Buffer (sq ft)	821,492			
Canopy to Remain	372,337			
Canopy to Remove	449,155			
Canopy Preserved Outside Floodplain	45%			
Heritage Trees (inches) (No Access Granted)				
Floodplain	862			
Buffer				
Upland				
Total				
Remain	30	0	242	567
Remove	74	0	221	295
Preserved	29%	N/A	48%	66%
Total Canopy/Inches Required to Be Preserved				
Canopy Within Floodplain (80% of Total Canopy)	101,234			
Canopy Outside Floodplain (25% Required)	205,373			
Heritage (100% of Total)	862			
Total Inches to Mitigate				
Significant (1:1)	0			
Heritage (3:1)	222			
Heritage (1:1)	0			
<b>TOTAL MITIGATION REQUIREMENT</b>	<b>222</b>			



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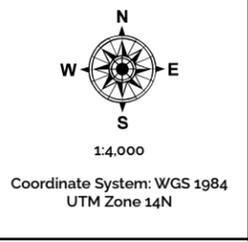
## T-0327 Padua BESS

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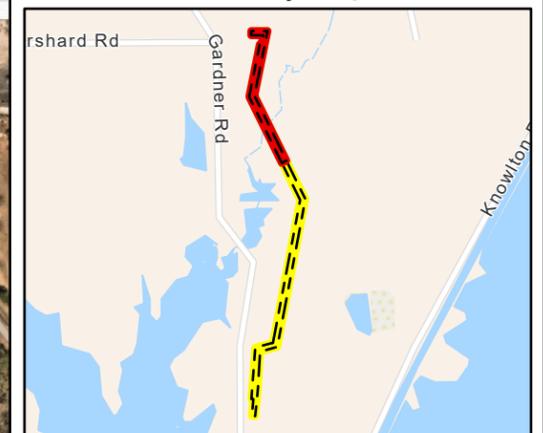
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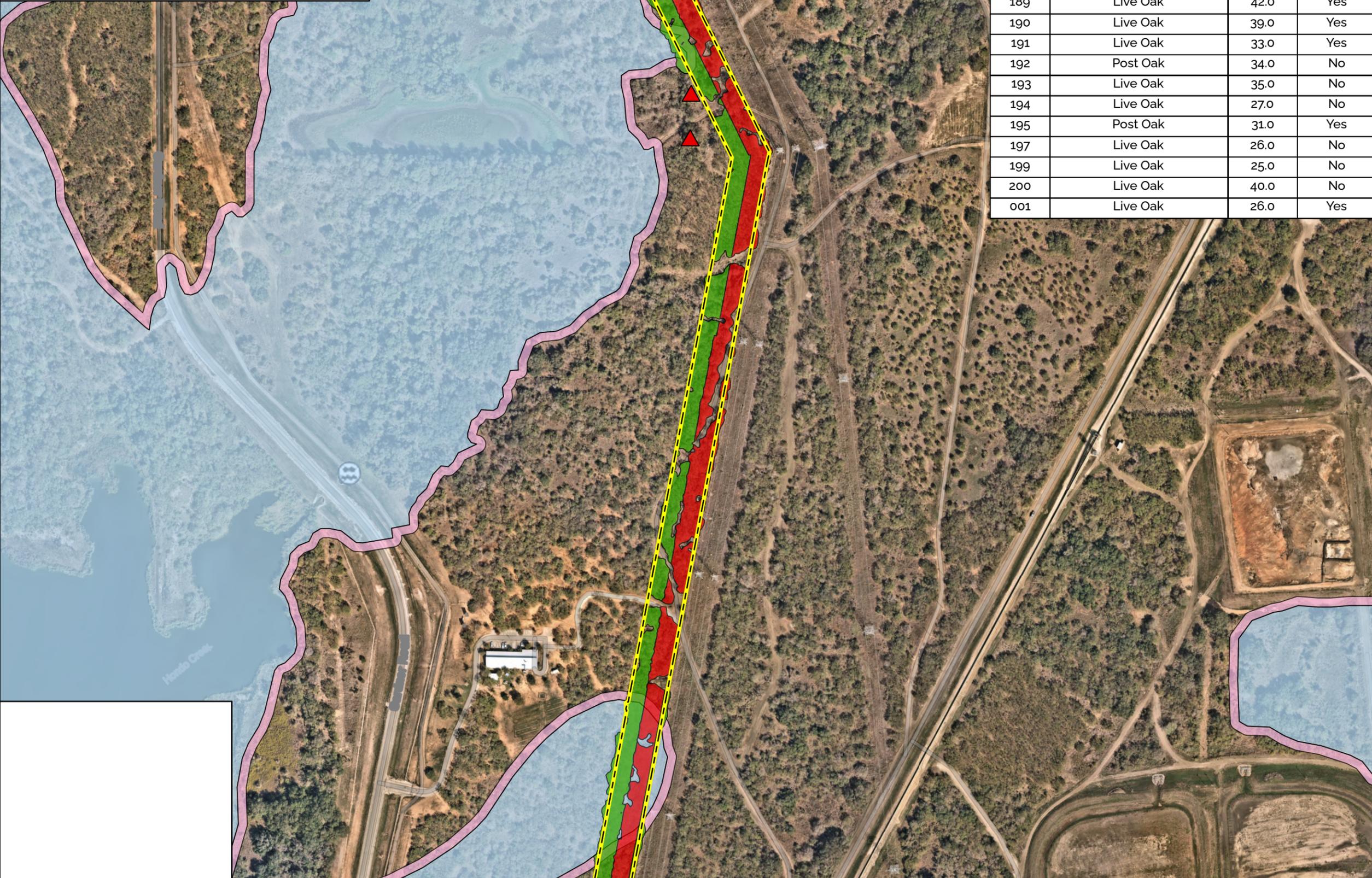
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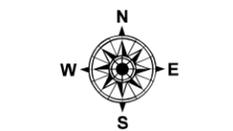
**T-0327 Padua BESS**

December 4, 2023

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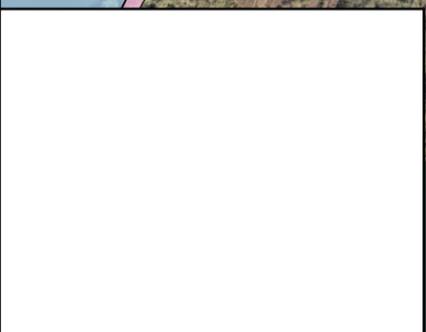
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 Coordinate System: WGS 1984  
 UTM Zone 14N

**Vicinity Map**

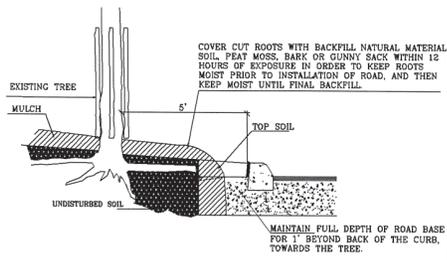


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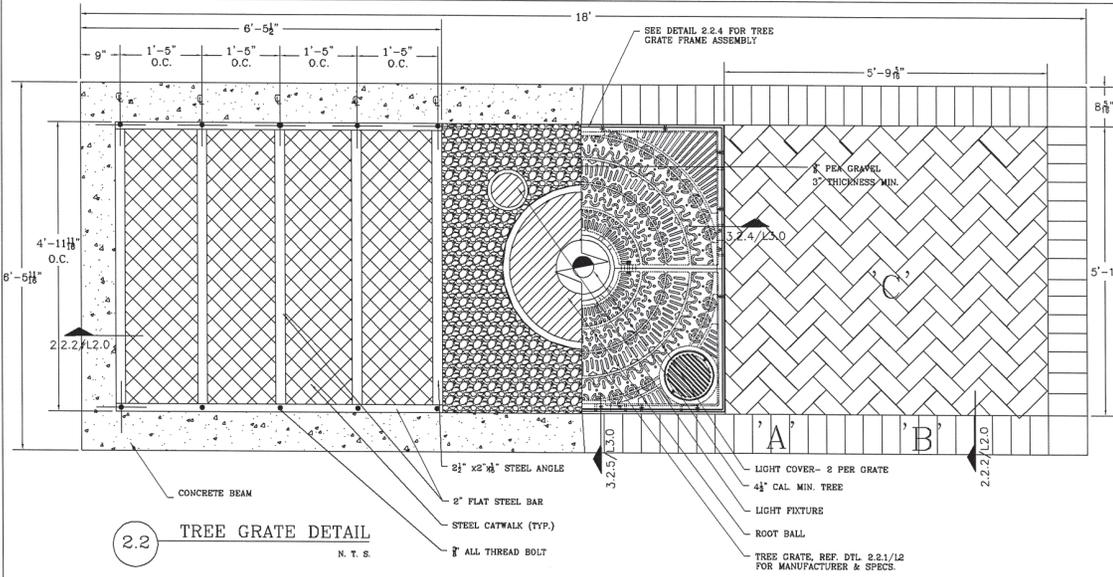
COVER CUT ROOTS WITH BACKFILL, NATURAL MATERIAL, SOIL, PEAT MOSS, BARK OR GUNNY SACK WITHIN 12 HOURS OF EXPOSURE IN ORDER TO KEEP ROOTS MOIST PRIOR TO INSTALLATION OF ROAD, AND THEN KEEP MOIST UNTIL FINAL BACKFILL.

MAINTAIN FULL DEPTH OF ROAD BASE FOR 1' BEYOND BACK OF THE CURB, TOWARDS THE TREE.

NOTE: ROOT ZONES OUTSIDE OF TREE PROTECTION BARRIER SHOULD BE COVERED AT ALL TIMES WITH 8" OF BARK MULCH THROUGHOUT THE CONSTRUCTION PHASE. EXISTING TREES SHOULD BE DEEP WATERED AS SPECIFIED IN ITEM 801 & 806.

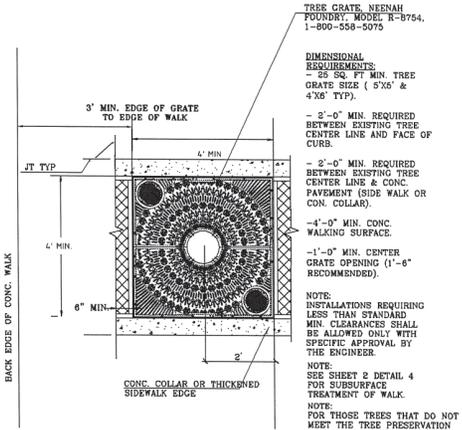
2.1 EXPOSED ROOT PROTECTION DETAIL  
N. T. S.

NOTE: FOR THOSE TREES THAT DO NOT MEET THE TREE PRESERVATION ORDINANCE REQUIREMENTS, PRESERVATION SHALL BE DETERMINED ON A CASE BY CASE BASIS.



2.2 TREE GRATE DETAIL  
N. T. S.

- NOTES:
- PAVER 'A': 8 5/8" x 8 3/4" THICKNESS CONC. PAVER (CITY STONE II) CASTSTONE COLOR, BY PAVESTONE. 1-800-580-PAVE.
  - PAVER 'B': 4 1/2" x 8 3/4" x 8 3/4" THICKNESS, PATTERN AS SHOWN ON PLAN, CONC. PAVER (HOLLAND STONE) CAST STONE COLOR, MANUF. BY PAVESTONE.
  - PAVER 'C': 4 1/2" x 8 3/4" x 8 3/4" THICKNESS, 45° HERRINGBONE PATTERN, CONC. PAVER (HOLLAND STONE), ANTIQUE COLOR, MANUF. BY PAVESTONE.



2.2.1 TREE GRATE PLAN VIEW  
N. T. S.

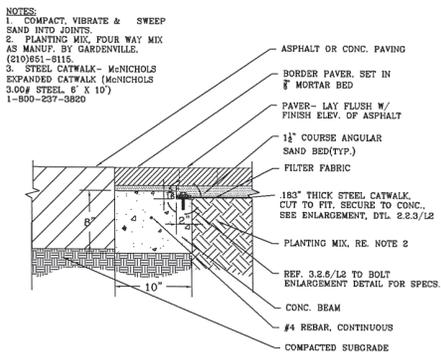
TREE GRATE, NEENAH FOUNDRY, MODEL R-8754, 1-800-558-5075

**DIMENSIONAL REQUIREMENTS:**  
 - 25 SQ. FT. MIN. TREE GRATE SIZE (5'x5' & 4'x6' TYP.)  
 - 2'-0" MIN. REQUIRED BETWEEN EXISTING TREE CENTER LINE AND FACE OF CURB.  
 - 2'-0" MIN. REQUIRED BETWEEN EXISTING TREE CENTER LINE & CONC. PAVEMENT (SIDE WALK OR CONC. COLLAR).  
 - 4'-0" MIN. CONC. WALKING SURFACE.  
 - 1'-0" MIN. CENTER GRATE OPENING (1'-6" RECOMMENDED).

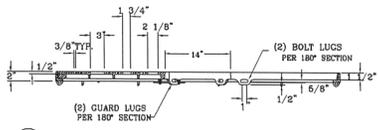
NOTE: INSTALLATIONS REQUIRING LESS THAN STANDARD MIN. CLEARANCES SHALL BE ALLOWED ONLY WITH SPECIFIC APPROVAL BY THE ENGINEER.

NOTE: SEE SHEET 2 DETAIL 4 FOR SUBSURFACE TREATMENT OF WALK.

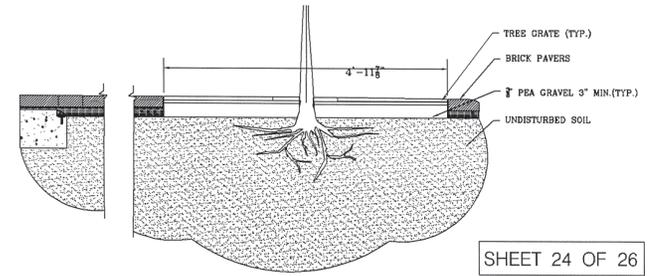
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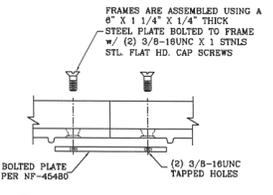
2.2.2 SECTION: PAVER @ ASPHALT  
N. T. S.



2.2.3 SECTION: TREE GRATE FRAME  
N. T. S.



2.2.4 TREE WELL SECTION  
N. T. S.



2.2.5 SECTION: GRATE FRAME ASSEMBLY  
N. T. S.

SHEET 24 OF 26

PREPARED BY: FERNANDEZ FRAZER WHITE & ASSOC. INC.  
R. C. F. ZAVALA GROUP

CITY OF SAN ANTONIO

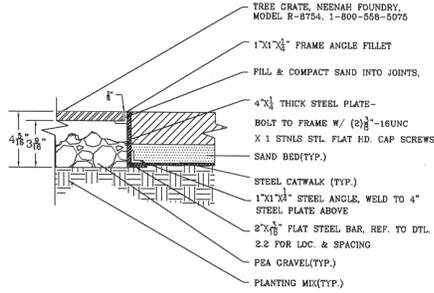


DEPARTMENT OF PUBLIC WORKS

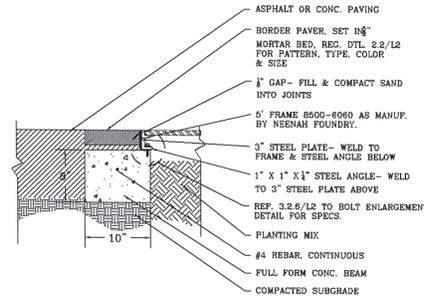
CITY OF SAN ANTONIO  
TREE PROTECTION DETAILS  
TREE PRESERVATION

ISSUED:	REV. NO.	DATE	SHT. NO.
	01		2 OF 4
DESIGNED:	STATE	CONTROL	SECTION
DRAWN:	DATE	COUNTY	JOB
CHECKED:	NO.	NO.	NO.

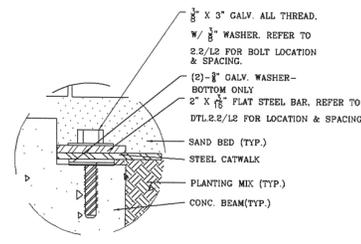
- NOTES:
- 6" FRAME 8500-6060 AS MANUFACTURED BY NEEHAH FOUNDRY.
  - REMOVE CROSSBAR FROM FRAME BEFORE INSTALLATION.



3.2.4 TREE GRATE/FRA @ PAVERS



3.2.5 SECTION: PAVER @ TREE GRATE



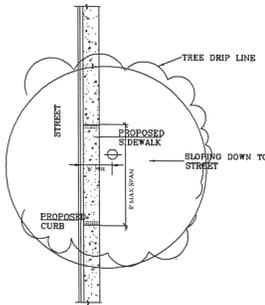
3.2.6 DETAIL: BOLT/CONC. CONNECTION

ADDITIONAL GENERAL NOTES

- NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED. A PRE-CONSTRUCTION CONFERENCE WITH THE CITY ARBORIST TO REVIEW PROCEDURES FOR PROTECTION AND MANAGEMENT OF ALL SIGNIFICANT, HERITAGE OR MITIGATION TREES IS REQUIRED.
- TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY ON SITE, AT LEAST A 3-INCH LAYER OF COURSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE.
- THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE-INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATIONS IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY AN AVERAGE RADII EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH DIAMETER INCH BREST HEIGHT (4.5') OF THE TREE. A 10-INCH DIAMETER TREE WILL HAVE A 10 FOOT RADII ROOT PROTECTION ZONE.
- ALL BROKEN BRANCHES AND EXPOSED ROOTS TWO (2) INCHES IN DIAMETER OR GREATER OF SIGNIFICANT, HERITAGE OR MITIGATION TREES SHALL BE CUT CLEANLY AND IN ACCORDANCE WITH ANSI-A309 STANDARDS. IN THE CASE OF OAK SPECIES, IN ORDER TO PREVENT INFECTION BY OAK WILT SPORES, WOUNDS MUST BE PAINTED WITH AN ACCEPTABLE WOUND DRESSING WITHIN THIRTY (30) MINUTES.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST (207.853).
- TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.

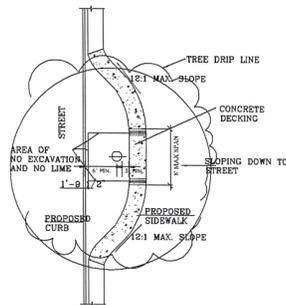
Trees shall be maintained in a healthy condition for the duration of the contract for this project. Maintenance shall include but is not limited to: irrigating, fertilizing, pruning and other maintenance as needed. Pruning shall be done by a Certified Arborist with a city issued Tree Maintenance License under direction of the City Arborist. Irrigation may be provided by temporary measures such as de-contaminated 50 gallon drums (5-9) placed within the drip line of each tree and filled twice a week.

AREA BENEATH PROPOSED SIDEWALKS IN THE DRIP LINE OF AN EXISTING TREE SHALL RECEIVE TREE VENTING AS PER OPTIONS ON THESE SHEETS.



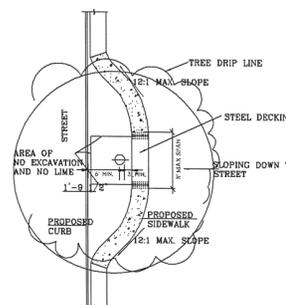
3.3 ELEVATED WALKWAY

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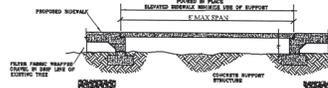


3.3 ELEVATED WALKWAY / CONCRETE DECKING

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3.3 ELEVATED WALKWAY / STEEL DECKING



3.3.4 ELEVATED WALKWAY SECTION

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NOTE: DESIGN STEEL PLATE SUPPORT ACCORDING TO SPECIFIED WIDTH AND LENGTH.

NOTE: FOR TREE ABRATION SYSTEMS LOCATED UNDER A PRIVATE OR PUBLIC ROADWAY - THE PROJECT ENGINEER SHALL SUBMIT FOR APPROVAL A PAVEMENT DESIGN SUPPORTED BY A GEOTECHNICAL REPORT THAT MEETS THE REQD. STRUCTURAL NUMBERS AND COMPACTION OF THE SUBGRADE. ABOVE THE PROPOSED SYSTEM OF TREE ABRATION, IN ACCORDANCE WITH UDC 35-508(F) PAVEMENT STANDARDS, AND CITY OF SAN ANTONIO'S STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION.

SHEET 25 OF 26

PREPARED BY: FERNANDEZ PEABLER WHITE & ASSOC., INC.  
R. C. P. ZAVALA GROUP

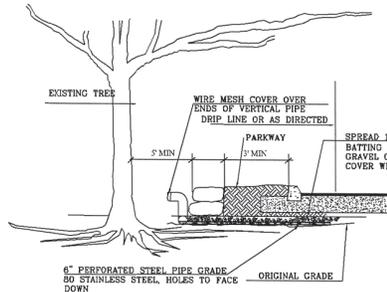
CITY OF SAN ANTONIO



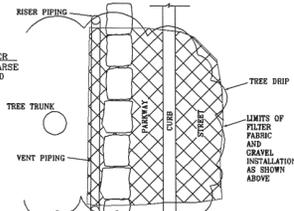
DEPARTMENT OF PUBLIC WORKS

CITY OF SAN ANTONIO  
TREE PROTECTION

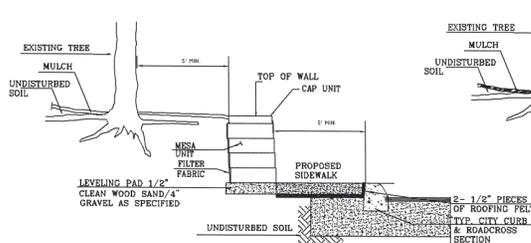
DESIGNED: AB/PJ	REV. NO.	DATE	SHT. NO.
CHECKED: AB/PJ	1	TEAMS	3 OF 4
DRAWN: AB/PJ	STATE	COUNTY	CONTROL
CHECKER:	DIST. NO.	NO. NO.	JOB NO.
			HOWWAY NO.



4.2 TREE AERATION DETAIL B  
N. T. S.

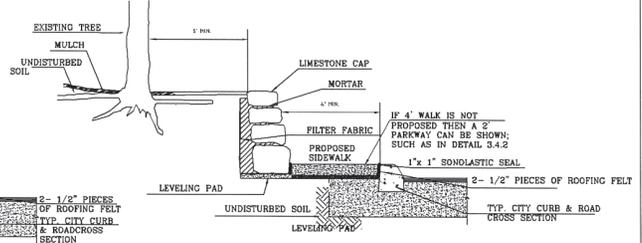


4.2.2 PLAN VIEW B  
N. T. S.



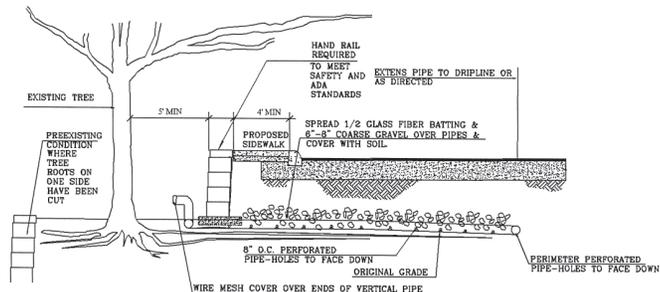
4.3 SEGMENTAL GRAVITY WALL  
ADJACENT TO CURB  
N. T. S.

NOTE - THIS TYPE OF WALL CAN BE USED ON OTHER APPLICATIONS TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET TO THE WALL.

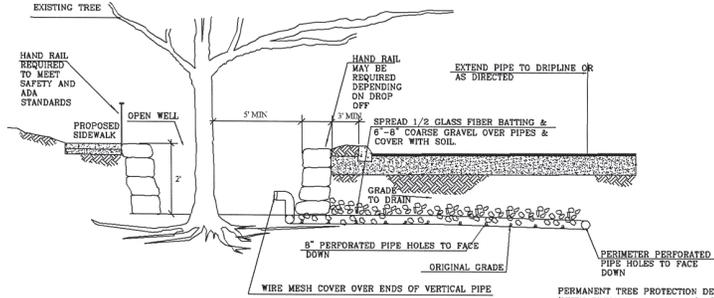


4.3.2 LIMESTONE BOULDER GRAVITY WALL  
ADJACENT TO CURB  
N. T. S.

NOTE - THIS TYPE OF WALL CAN BE USED ON OTHER APPLICATIONS TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET TO THE WALL.

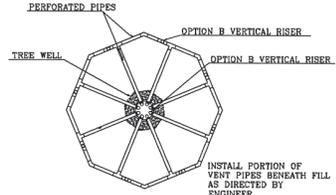


4.4 TREE AERATION DETAIL C  
N. T. S.

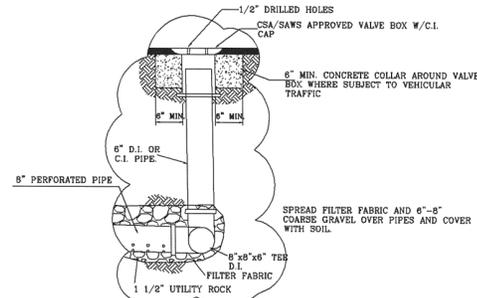


4.4.2 TREE AERATION DETAIL C  
N. T. S.

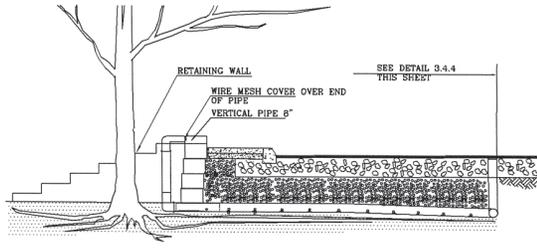
NOTE: THIS AERATION SYSTEM CAN BE USED FOR NEW PROJECTS WHERE FILL IS OCCURRING SUCH AS PARKING LOTS OR ROADWAY CONSTRUCTION. DRAIN AWAY FROM EXISTING TREE.



4.4.3 PLAN VIEW C  
N. T. S.

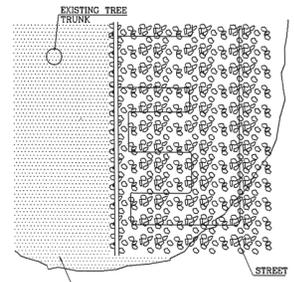


4.4.4 TREE AERATION SECTION C  
N. T. S.



4.4.5 TREE AERATION DETAIL D  
N. T. S.

NOTE: THIS AERATION SYSTEM CAN BE USED FOR NEW PROJECTS WHERE FILL IS OCCURRING SUCH AS PARKING LOTS OR ROADWAY CONSTRUCTION. DRAIN AWAY FROM EXISTING TREE.



4.4.6 TREE AERATION PLAN VIEW D  
N. T. S.

SHEET 26 OF 26

PREPARED BY: FERNANDEZ FRAZEE WHITE & ASSOC. INC.  
R. C. F. ZAVALLA GROUP

CITY OF SAN ANTONIO



DEPARTMENT OF PUBLIC WORKS

CITY OF SAN ANTONIO  
TREE PROTECTION DETAILS  
TREE PRESERVATION

DESIGNED: ANJR	FILE NO. DW. NO.	SCALE	SHEET NO.
CHECKED:	DATE	4 OF 4	
DRAWN:	STATE DES. NO.	COUNTY	CONTROL SECT. NO.
CHECKED:	NO. NO.	JOB NO.	NO. NO.