

Developer's Name: DR. HORTON

Address: 211 NORTH LOOP 1604, SUITE 130

City: SAN ANTONIO State: TEXAS Zip: 78232

Phone# (210) 496-2668 FAX# N/A


SAWS Block Map# 076558, 074558 Total Acreage 8.14

PHASE I - 4.765 LF ~ 16" PVC WATER

PHASE II - 15.036 LF ~ 24" PVC WATER Plot No./N/A

Total Linear Footage of Pipe N/A

Number of Lots N/A Total EDU'S N/A SAWS JOB NO. 23-7003



Jason T. Diamond
11-20-23



**PAPE-DAWSON
ENGINEERS**

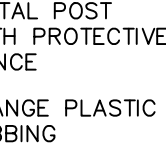
STONEHILL OFF-SITE WATER EXTENSION

BEXAR COUNTY, TEXAS

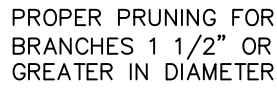
PHASE I TREE PRESERVATION PLAN

LAT NO. N/A
 JOB NO. 12747-00
 DATE NOVEMBER 2023
 DESIGNER CN
 CHECKED SG DRAWN JD
 SHEET C6.00

1. ALL TREES SHALL REMAIN UNLESS NOTED ON THE CITY OF SAN ANTONIO APPROVED PLANS.
2. NO UTILITY EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE BEEN COMPLETED AND APPROVED.
3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
4. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
5. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS ONE FOOT RADIUS PER DIAMETER INCH OF THE TRUNK OF THE TREE. A TEN INCH TREE SHALL REQUIRE A TEN FOOT RADIUS ROOT PROTECTION ZONE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEARLY ACCORDING TO PROPER PRUNING METHODS. ALL WOUNDS TO OAK TREE SHALL BE PAINTED WITHIN 20 MINUTES TO PREVENT THE SPREAD OF OAK WILT.
6. THE CITY ABSTRACT, 207-0278, SHALL APPROVE ANY TREE REMOVED.
7. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES MAY BE LEGALLY REMOVED BY THE CONTRACTOR ONLY AFTER APPROVAL FROM THE CITY INSPECTOR.
8. TREES THAT ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
9. SAPLINGS, SHRUBS OR BUSHES TO BE REMOVED FROM THE PROTECTED ROOT ZONE AREA OF PROTECTED TREES SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
10. ALL DEBRIS GENERATED BY THE PRUNING OR TRIMMING OF THE TREES AND/OR BUSHES SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
11. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE ROOT PROTECTION ZONE AND/OR WASHING FOLIAGE.
12. NO WIRES, NAILS OR OTHER MATERIALS MAY BE ATTACHED TO PROTECTED TREES.
13. PRIOR TO START OF WORK, CALL 207-1111 TO SCHEDULE A PRE-CONSTRUCTION & FENCING INSPECTION (PER SECTION 35-477 OF THE UDC, SUBSECTION TREE PERMITS §5(C)).
14. FAILURE TO SCHEDULE FENCING INSPECTION PRIOR TO START OF WORK MAY RESULT IN A STOP WORK ORDER OR A PENALTY OF \$2,000.00 PER DAY PER SECTION 35-523 OF THE UDC, SUBSECTION (K)(2), THE BARRIER SHALL BE IN PLACE BEFORE ANY SITE WORK IS INITIATED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS).
15. TREE PLANTING AND MAINTENANCE: ALL PRESERVED AND PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATING, FERTILIZING, PRUNING, AND OTHER MAINTENANCE AS NEEDED. TREES THAT DIE WITHIN TWELVE MONTHS SHALL BE REPLACED WITH A TREE OF THE SAME SPECIES AND SIZE. PRESERVED TREES THAT ARE DAMAGED OR LOST DURING CONSTRUCTION, SIGNIFICANT TREES SHALL BE REPLACED WITH A 1:1 RATIO (OR INCH-FOR-INCH) AND HERITAGE TREES SHALL BE REPLACED AT A 3:1 RATIO (OR THREE-TO-ONE INCH).



N.T.S.



N.T.S.

1. ALL TREES TO REMAIN ON SITE REQUIRE PROTECTIVE FENCING, PRUNING, WATERING, AND FERTILIZATION AS DIRECTED BY A QUALIFIED ARBORIST.
2. PROTECTIVE FENCING CONSISTS OF 4'-0" HIGH FENCE.
3. FENCE TO EXTEND FROM TRUNK ONE FOOT FOR EVERY CALIPER INCH OF TREE (MINIMUM). THE OPTIMUM DISTANCE IS TO INSTALL FENCE DIRECTLY BENEATH DRILLPIE OF TREE TO REMAIN AS SHOWN.
4. DURING CONSTRUCTION, NO EXCESS SOIL, FILL MATERIAL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE PROTECTIVE FENCING. NOR SHALL ANY SOIL BE REMOVED FROM WITHIN THE FENCING.
5. ALL TREE PROTECTION MUST BE IN PLACE BEFORE CONSTRUCTION BEGINS.
6. INSTALL 4" MINIMUM DEPTH OF SHREDDED MULCH BENEATH THE DRILLPIE OF THE TREE.

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

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

OUTSIDE FLOODPLAIN:	
EXISTING CANOPY =	29,428 SF
REQUIRED TO REMAIN (25%) =	7,357 SF
EXISTING TREE CANOPY TO BE REMOVED =	22,060 SF
EXISTING TREE CANOPY TO REMAIN =	7,368 SF
PERCENTAGE AREA PRESERVED =	25 %
CANOPY REQUIRED TO BE MITIGATED =	0 SF

INSIDE FLOODPLAIN:	
EXISTING CANOPY =	22,766 SF
REQUIRED TO REMAIN (80%) =	18,213 SF
EXISTING TREE CANOPY TO BE REMOVED =	12,685 SF
EXISTING TREE CANOPY TO REMAIN =	10,081 SF
PERCENTAGE AREA PRESERVED =	44%
CANOPY REQUIRED TO BE MITIGATED =	8,132 SF

INSIDE 30' FLOODPLAIN BUFFER:	
EXISTING CANOPY =	3,233 SF
REQUIRED TO REMAIN (80%) =	2,586 SF
EXISTING TREE CANOPY TO BE REMOVED =	1,693 SF
EXISTING TREE CANOPY TO REMAIN =	1,540 SF
PERCENTAGE AREA PRESERVED =	48%
CANOPY REQUIRED TO BE MITIGATED =	1,046 SF

TAG #	SIZE	SPECIES	FLOODPLAIN	TO BE PRESERVED
7581	13x12x11	HUISACHE	NO	NO

OUTSIDE FLOODPLAIN

- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $25\% \times 29,428 \text{ SF} = 7,357 \text{ SF}$

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

B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $80\% \times 22,766 \text{ SF} = 18,213 \text{ SF}$

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

B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $80\% \times 3,233 \text{ SF} = 2,586 \text{ SF}$

INSIDE FLOODPLAIN

NUMBER OF TREES REQUIRED TO BE PLANTED = $8,132 \text{ SF} \div (875 \text{ SF/TREE}) = 10 \text{ TREES}$
INCHES OF CANOPY REQUIRED TO BE MITIGATED = $10 \text{ TREES} \times 16.7 \text{ INCHES} = 167 \text{ INCHES}$

NUMBER OF TREES REQUIRED TO BE PLANTED = $1,046 \text{ SF} \div (875 \text{ SF/TREE}) = 2 \text{ TREES}$
 INCHES OF CANOPY REQUIRED TO BE MITIGATED = $2 \text{ TREES} \times 16.7 \text{ INCHES} = 34 \text{ INCHES}$

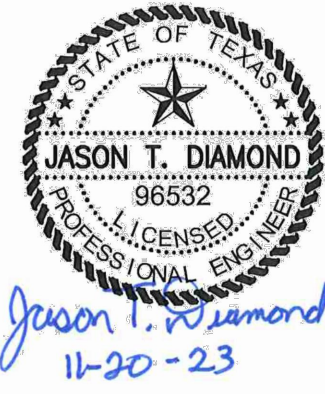
INSIDE FLOODPLAIN CANOPY MITIGATION INCHES = 167 INCHES
 BUFFER CANOPY MITIGATION INCHES = 34 INCHES

MITIGATION FEE @ \$200.00/INCH

FLOODPLAIN CANOPY FEE = 167 INCHES x \$200 = \$33,400

BUFFER CANOPY FEE = 34 INCHES x \$200 = \$6,800

TOTAL MITIGATION FEE = \$40,200

[illegible]

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #100288600

STONEHILL OFF-SITE WATER EXTENSION

BEXAR COUNTY, TEXAS

BEXAR COUNTY, TEXAS

PHASE I TREE PRESERVATION PLAN DETAILS

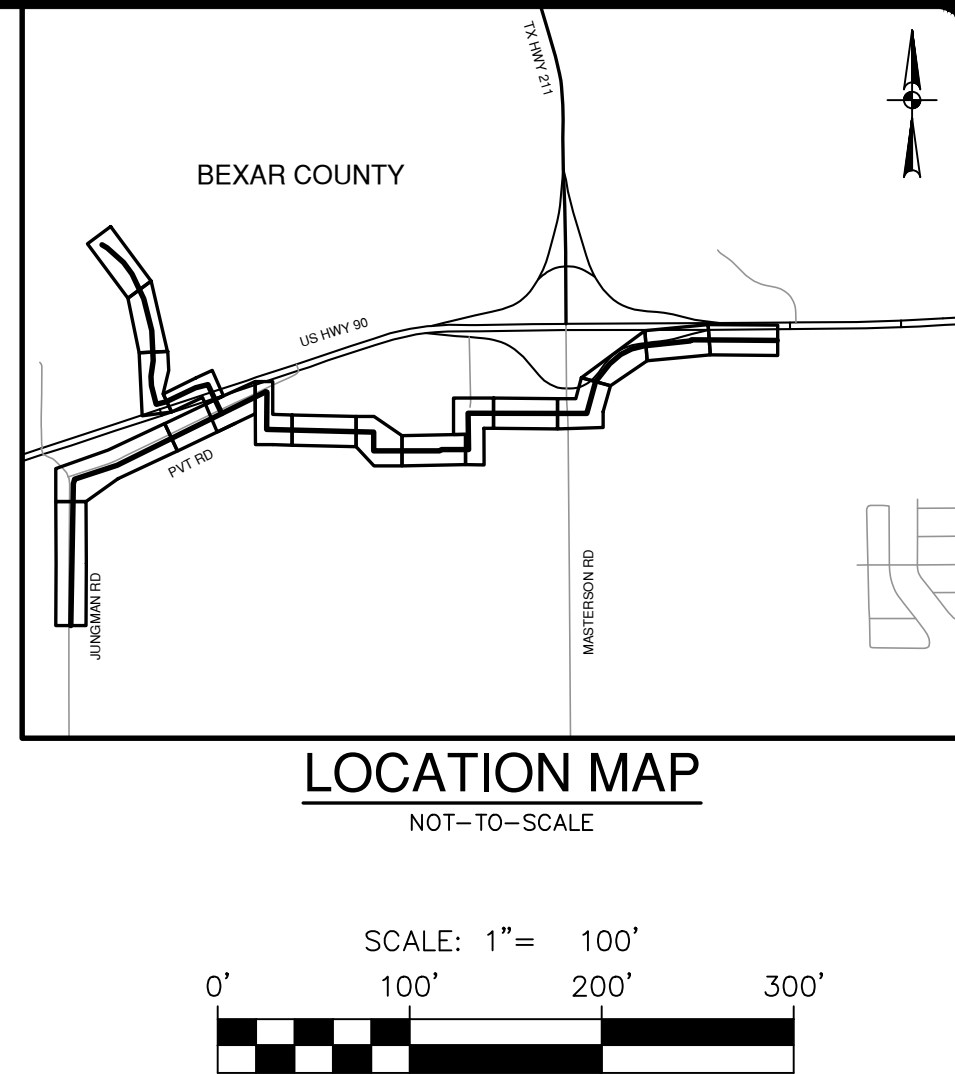
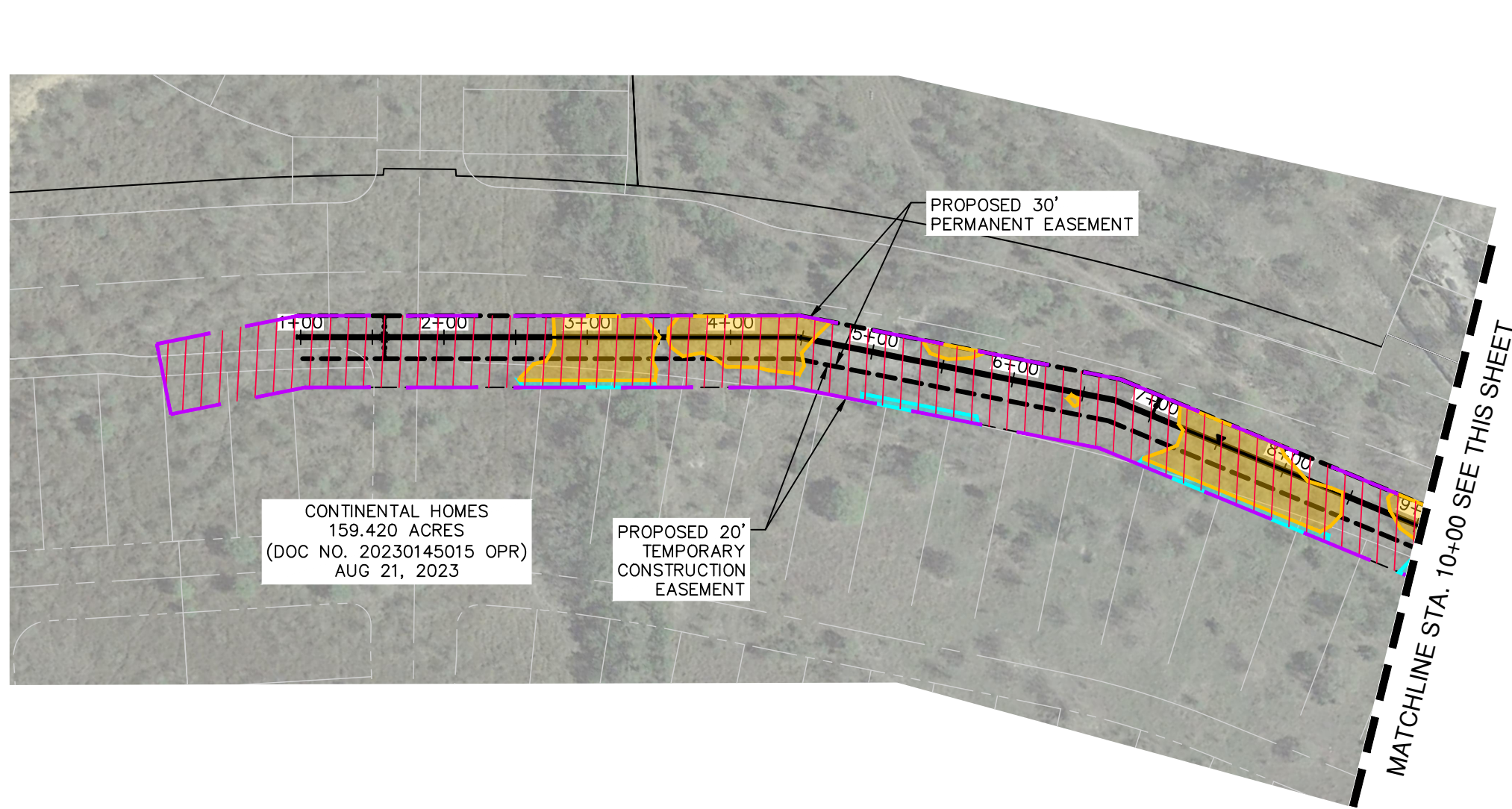
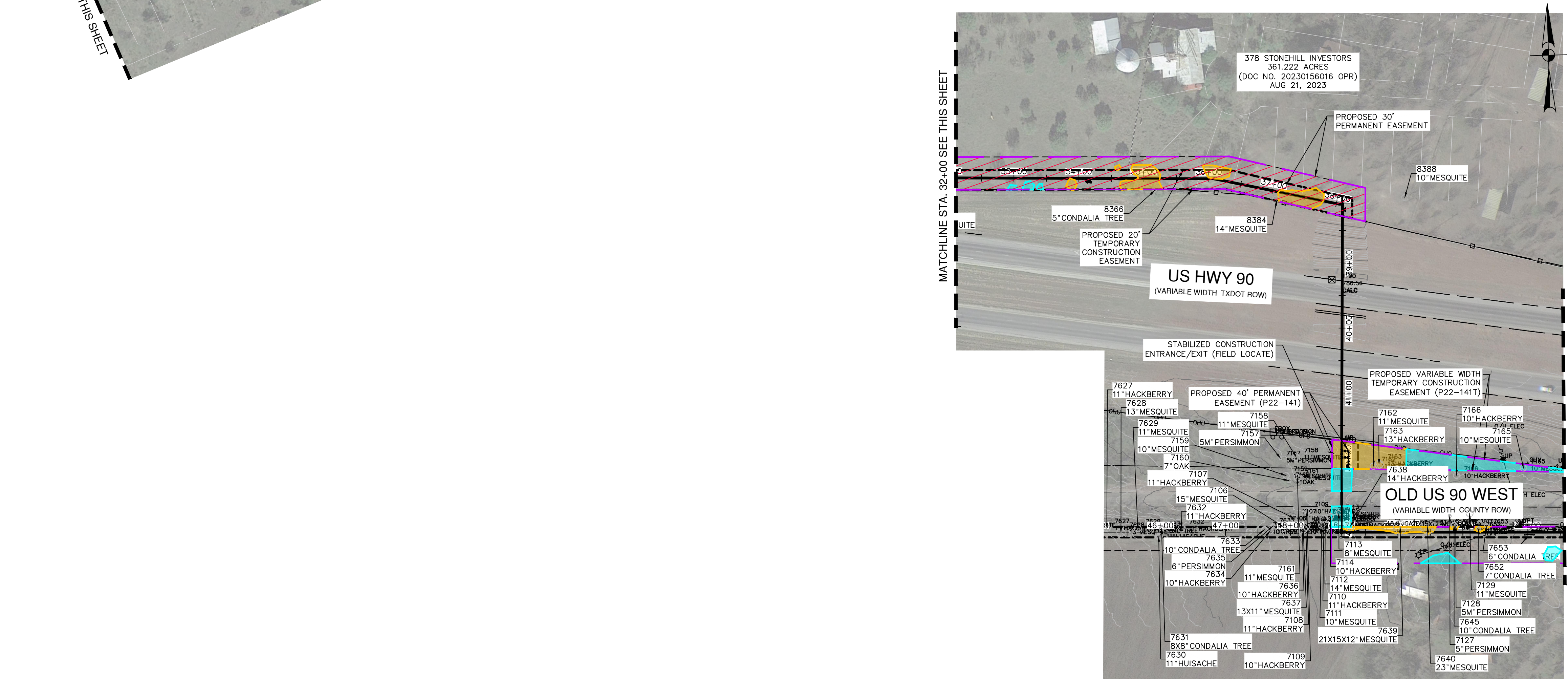
PLAT NO. N/A
JOB NO. 12747-00
DATE NOVEMBER 2023
DESIGNER CN
CHECKED SG DRAWN JD
SHEET C6.01

WATER: SAWS PRESSURE ZONE 930
STONEHILL OFF-SITE WATER EXTENSION

Developer's Name: DR. HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 496-2668 FAX#: N/A
SAWS Block Map# 076558, 074558 Total Acreage 8.14
PHASE I - 4.765 LF ~ 16" PVC WATER
Total Linear Footage of Pipe PHASE II - 15,036 LF ~ 24" PVC WATER Plot No. N/A
Number of Lots N/A Total EDUs N/A SAWS JOB NO. 23-7003

Dates: June 1, 2023, 3:01 PM - User ID: amohammed
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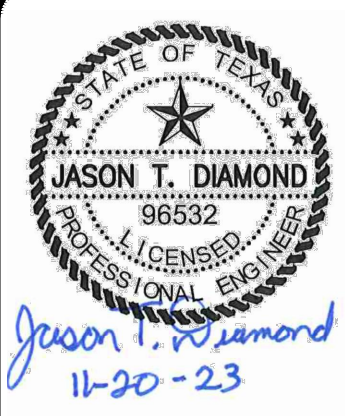
LEGEND

- PROPOSED SEWER LINE
- PROPERTY LINE
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING 1' CONTOURS
- EXISTING 5' CONTOURS
- 1% ANNUAL-CHANCE FEMA FLOODPLAIN
- 30' WIDE FLOODPLAIN BUFFER
- PROJECT LIMITS
- CANOPY TO BE REMOVED INSIDE FLOODPLAIN
- CANOPY TO BE PRESERVED INSIDE FLOODPLAIN
- CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN
- CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN
- CANOPY TO BE REMOVED INSIDE 30' WIDE BUFFER
- CANOPY TO BE PRESERVED INSIDE 30' WIDE BUFFER
- PROJECT AREA ACCOUNTED FOR IN STONEHILL MDP TREE PLAN

WATER: SAWS PRESSURE ZONE 930
STONEHILL OFF-SITE WATER EXTENSION

Developer's Name: DR. HORTON	
Address: 211 NORTH LOOP 1604, SUITE 130	
City: SAN ANTONIO	State: TEXAS ZIP: 78232
Phone# (210) 496-2868	FAX# N/A
SAWS Block Map# 076558, 074558	
SAWS Block Map# 076558, 074558	
Total Linear Footage of Pipe PHASE II = 15,036 LF ~ 24" PVC WATER	
Total Linear Footage of Pipe PHASE II = 15,036 LF ~ 24" PVC WATER	
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-7003	

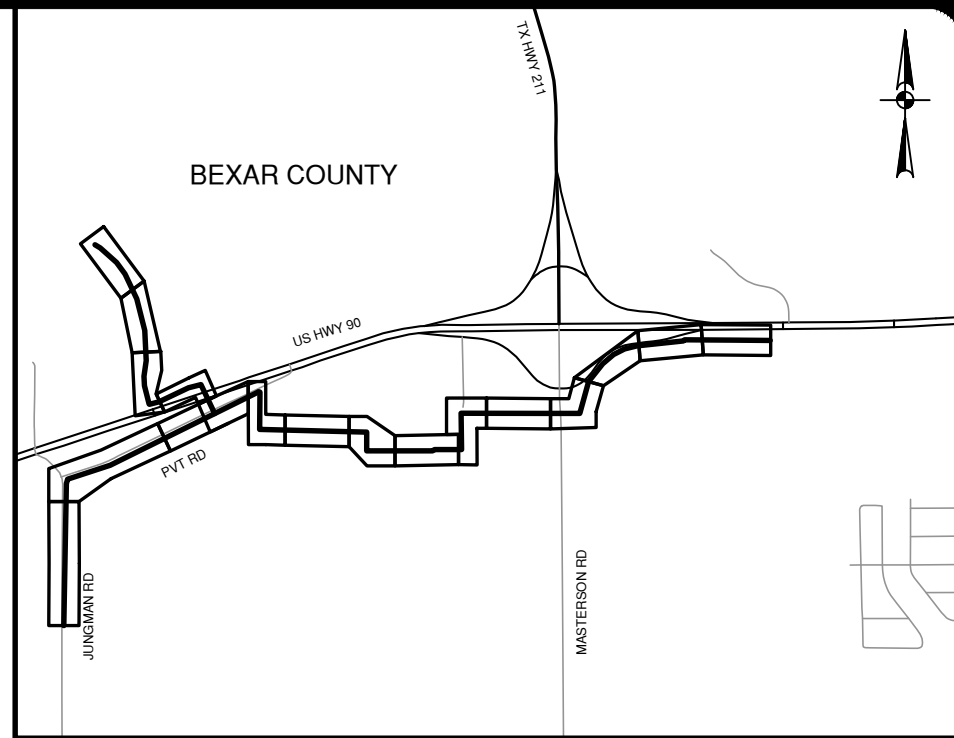
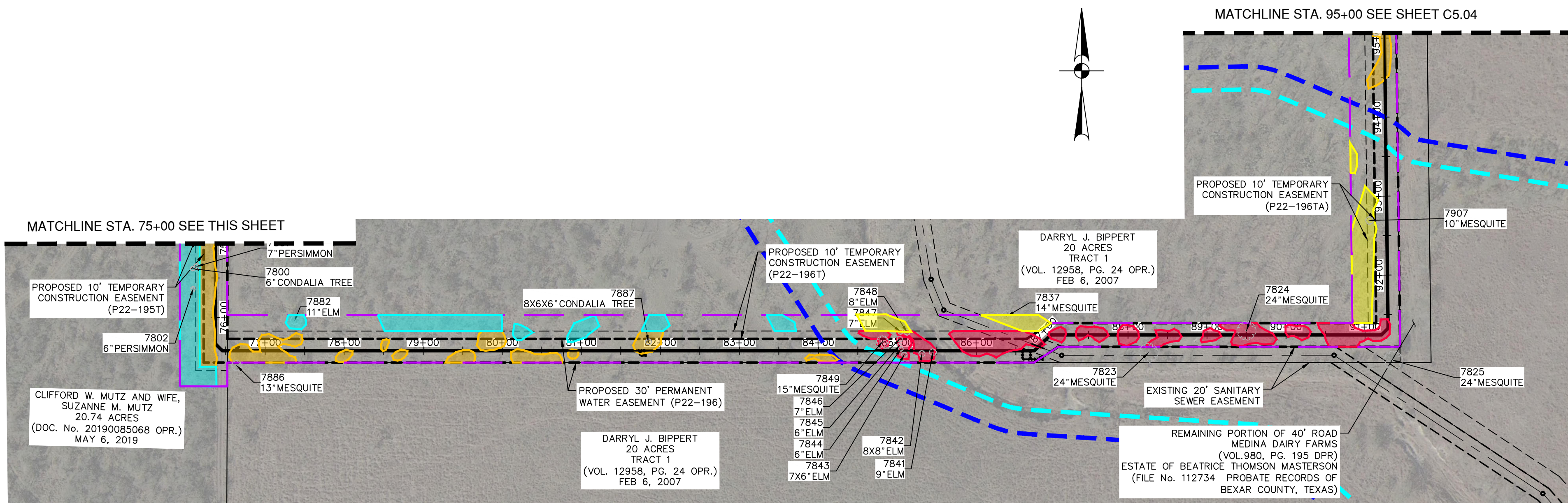
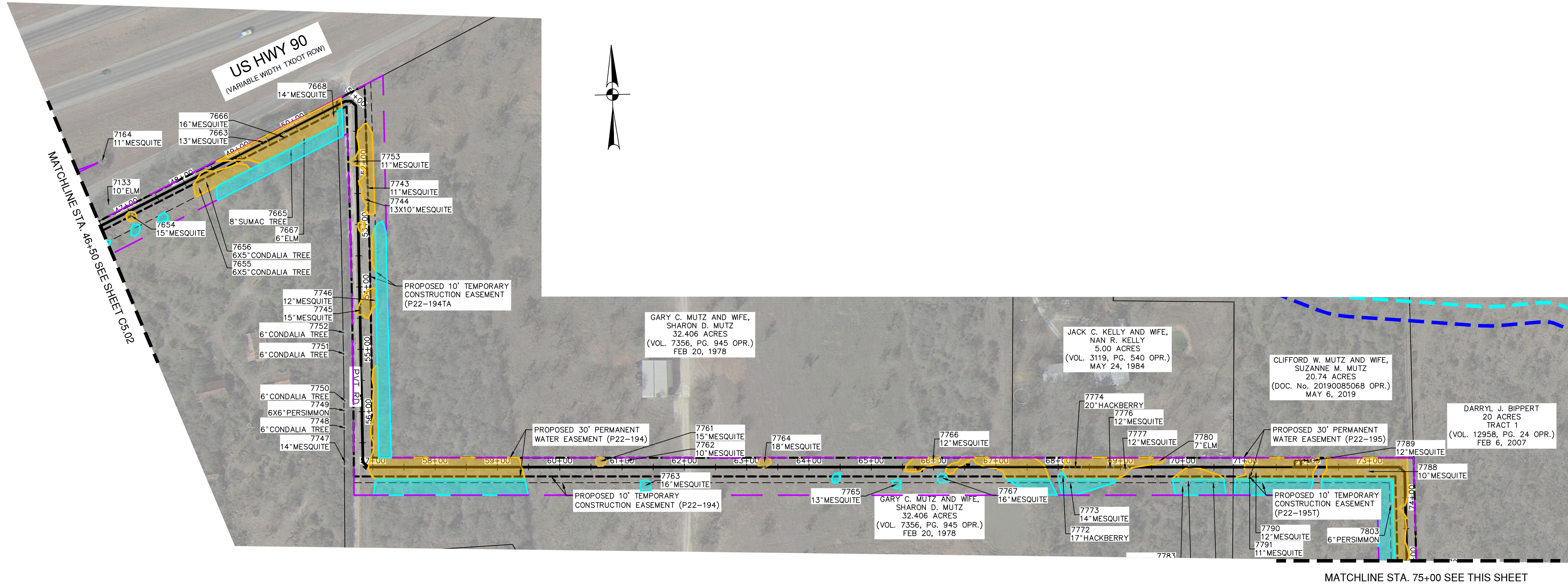
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

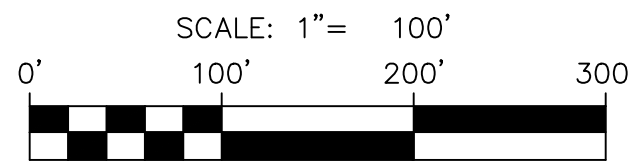
STONEHILL OFF-SITE WATER EXTENSION
BEXAR COUNTY, TEXAS
PHASE II
TREE PRESERVATION PLAN

PLAT NO.	N/A
JOB NO.	12747-00
DATE	NOVEMBER 2023
DESIGNER	CN
CHECKED	SG
DRAWN	JD
SHEET	C6.02



LOCATION MAP

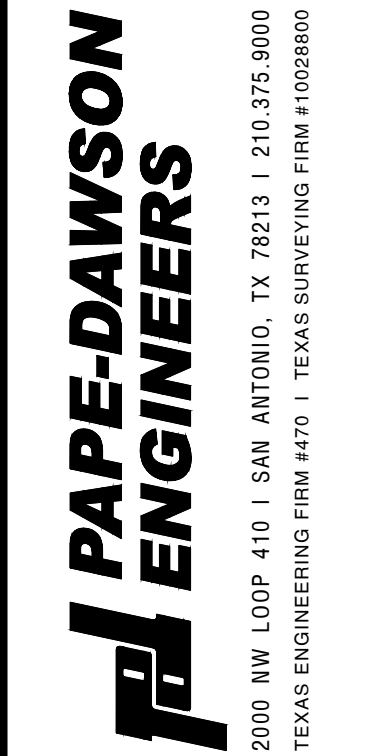
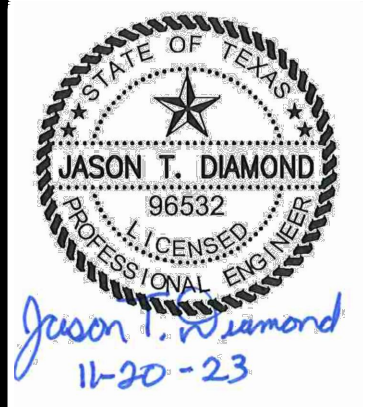
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LEGEND

PROPOSED SEWER LINE	—
PROPERTY LINE	---
PROPOSED EASEMENT	---
EXISTING EASEMENT	---
EXISTING OVERHEAD ELECTRIC	— OHE —
EXISTING 1' CONTOURS	--- 946 ---
EXISTING 5' CONTOURS	--- 950 ---
1% ANNUAL-CHANCE FEMA FLOODPLAIN	---
30' WIDE FLOODPLAIN BUFFER	---
PROJECT LIMITS	---
CANOPY TO BE REMOVED INSIDE FLOODPLAIN	---
CANOPY TO BE PRESERVED INSIDE FLOODPLAIN	---
CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN	---
CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN	---
CANOPY TO BE REMOVED INSIDE 30' WIDE BUFFER	---
CANOPY TO BE PRESERVED INSIDE 30' WIDE BUFFER	---
PROJECT AREA ACCOUNTED FOR IN STONEHILL MDP TREE PLAN	---

NO.	REVISION	DATE



STONEHILL OFF-SITE WATER EXTENSION

BEXAR COUNTY, TEXAS

PHASE II

TREE PRESERVATION PLAN

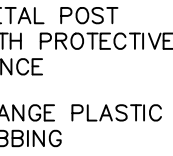
WATER: SAWS PRESSURE ZONE 930

STONEHILL OFF-SITE WATER EXTENSION

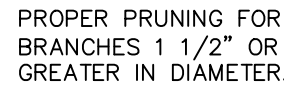
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PHASE I - 4.765 LF ~ 16\"/>
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Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-7003

PLAT NO.	N/A
JOB NO.	12747-00
DATE	NOVEMBER 2023
DESIGNER	CN
CHECKED	SG
DRAWN	JD
SHEET	C6.03

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N.T.S.



N.T.S.

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

OUTSIDE FLOODPLAIN:	
EXISTING CANOPY =	129,822 SF
REQUIRED TO REMAIN (25%) =	32,455 SF
EXISTING TREE CANOPY TO BE REMOVED =	72,003 SF
EXISTING TREE CANOPY TO REMAIN =	57,819 SF
PERCENTAGE AREA PRESERVED =	45%
CANOPY REQUIRED TO BE MITIGATED =	0 SF

INSIDE FLOODPLAIN:	
EXISTING CANOPY =	23,414 SF
REQUIRED TO REMAIN (80%) =	18,731 SF
EXISTING TREE CANOPY TO BE REMOVED =	14,736 SF
EXISTING TREE CANOPY TO REMAIN =	8,678 SF
PERCENTAGE AREA PRESERVED =	37%
CANOPY REQUIRED TO BE MITIGATED =	10,054 SF

INSIDE 30' FLOODPLAIN BUFFER:	
EXISTING CANOPY =	2,129 SF
REQUIRED TO REMAIN (80%) =	1,703 SF
EXISTING TREE CANOPY TO BE REMOVED =	1,377 SF
EXISTING TREE CANOPY TO REMAIN =	752 SF
PERCENTAGE AREA PRESERVED =	35%
CANOPY REQUIRED TO BE MITIGATED =	952 SF

TAG #	SIZE	SPECIES	FLOODPLAIN	TO BE PRESERVED
2500*	18X9X7	MESQUITE	NO	NO
7639	21X15X12	MESQUITE	NO	NO
*TO BE ADDRESSED BY STONEHILL DEVELOPMENT TREE PLAN				

OUTSIDE FLOODPLAIN

- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $25\% \times 129,822 \text{ SF} = \underline{32,455 \text{ SF}}$

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

B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $80\% \times 23,414 \text{ SF} = 18,731 \text{ SF}$

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

A. EXISTING CANOPY AREA PRESERVED: 752 SF

- B. EXISTING CANOPY AREA REQUIRED TO BE PRESERVED: $80\% \times 2,129 \text{ SF} = \underline{1,703 \text{ SF}}$

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

INSIDE FLOODPLAIN

NUMBER OF TREES REQUIRED TO BE PLANTED = $10,054 \text{ SF} \div (875 \text{ SF/TREE}) = 12 \text{ TREES}$
INCHES OF CANOPY REQUIRED TO BE MITIGATED = $12 \text{ TREES} \times 16.7 \text{ INCHES} = 201 \text{ INCHES}$

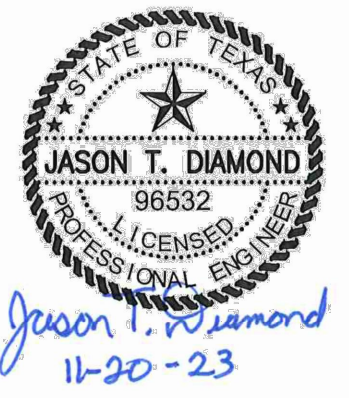
NUMBER OF TREES REQUIRED TO BE PLANTED = $952 \text{ SF} \div (875 \text{ SF/TREE}) = 2 \text{ TREES}$
 INCHES OF CANOPY REQUIRED TO BE MITIGATED = $2 \text{ TREES} \times 16.7 \text{ INCHES} = 34 \text{ INCHES}$

INSIDE FLOODPLAIN CANOPY MITIGATION INCHES = 201 INCHES
 BUFFER CANOPY MITIGATION INCHES = 34 INCHES

FLOODPLAIN CANOPY FEE = 201 INCHES x \$200 = \$40,200

BUFFER CANOPY FEE = 34 INCHES x \$200 = \$6,800

TOTAL MITIGATION FEE = \$47,000

[illegible]

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONEHILL OFF-SITE WATER EXTENSION

BEXAR COUNTY, TEXAS

PHASE II TREE PRESERVATION PLAN DETAILS

PLAT NO. N/A
JOB NO. 12747-00
DATE NOVEMBER 2023
DESIGNER CN
CHECKED SG DRAWN JD
SHEET C6.05

WATER: SAWS PRESSURE ZONE 930
STONEHILL OFF-SITE WATER EXTENSION

Developer's Name: DR. HORTON

Address: 211 NORTH LORTH 1604, SUITE 130

City: SAN ANTONIO State: TEXAS ZIP: 78232

Phone: (210) 496-2868 FAX# N/A

SAWS Block Map 076556, 074558 Total Acreage 8.14
PHASE I - 4.765 LF - 16" PVC WATER
Total Linear Footage of Pipe PHASE II - 15,036 LF - 24" PVC WATER Plot No. N/A

Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-7003