

|              |          |                | RITAGE TREE T |                            | · · · · · · · · · · · · · · · · · · · |
|--------------|----------|----------------|---------------|----------------------------|---------------------------------------|
| POINT NUMBER | SPECIES  | TRUNK DIA (IN) | SPREAD (FT)   | TRUNK COUNT                | AREA LOCATION                         |
| 4498         | LIVE OAK | 28             | 70            | N /A                       |                                       |
| 4499         | LIVE OAK | 26             | 45            | 14" x 12" x 12"            |                                       |
| 4501         | LIVE OAK | 33.5           | 75            | N /A                       |                                       |
| 4504         | LIVE OAK | 38             | 85            | 26" x 24"                  |                                       |
| 4566*        | LIVE OAK | 24             | 60            | N /A                       | FLOODPLAIN                            |
| 4576         | PECAN    | 26.5           | 50            | N /A                       | FLOODPLAIN                            |
| 4578*        | PECAN    | 27             | 75            | N /A                       | FLOODPLAIN                            |
| 4591         | ELM      | 24             | 45            | N /A                       |                                       |
| 4605         | LIVE OAK | 30             | 75            | N /A                       | FLOODPLAIN BUFFE                      |
| 4619         | ELM      | 32             | 65            | N /A                       |                                       |
| 4654         | LIVE OAK | 27             | 65            | N /A                       |                                       |
| 4655         | LIVE OAK | 24             | 50            | N /A                       |                                       |
| 4670         | LIVE OAK | 40             | 70            | N /A                       |                                       |
| 4671         | LIVE OAK | 37             | 70            | N /A                       |                                       |
| 4689         | LIVE OAK | 24             | 45            | 16.5" x 15"                |                                       |
| 4710         | LIVE OAK | 32.5           | 70            | N /A                       |                                       |
| 4711         | LIVE OAK | 25.5           | 55            | N /A                       | STEEP SLOPE                           |
| 4718         | LIVE OAK | 25             | 60            | N /A                       |                                       |
| 5697         | LIVE OAK | 29             | 60            | 16" x 16" x 10"            |                                       |
| 5702         | LIVE OAK | 32             | 100           | N /A                       | STEEP SLOPE                           |
| 5706         | LIVE OAK | 27.5           | 75            | 15" x 12.5" x 12.5"        |                                       |
| 5707         | LIVE OAK | 25             | 75            | N /A                       |                                       |
| 5710         | LIVE OAK | 33.5           | 100           | 22.5" x 22"                |                                       |
| 5723         | LIVE OAK | 33.5           | 90            | N /A                       |                                       |
| 5726         | LIVE OAK | 30.75          | 80            | 22" x 17.5"                |                                       |
| 5732         | LIVE OAK | 24.75          | 70            | 19" x 11.5"                |                                       |
| 5733         | LIVE OAK | 27             | 90            | N /A                       |                                       |
| 5734         | LIVE OAK | 24             | 60            | N /A                       |                                       |
| 5735         | LIVE OAK | 38             | 90            | 17.5" x 12.5" x 8.5" x 19" |                                       |
| 5736         | LIVE OAK | 30             | 50            | 20.5" x 19"                |                                       |

\* REMOVED HERITAGE TREE

# TREE CANOPY-ESA TOTALS

| (STEEP SLOPE AND FLOODPLAIN BUFFEF |        | NED)   |  |
|------------------------------------|--------|--------|--|
|                                    | ACRES  | SQUAI  |  |
| TREE CANOPY-STEEP SLOPE            | 5.91   | 257    |  |
| TREE CANOPY-STEEP SLOPE REMAINDER  |        | 238    |  |
| PRESERVATION %                     |        | 92.49% |  |
| TREE CANOPY-FLOODPLAIN BUFFER      | 0.27   | 11     |  |
| TREE CANOPY-BUFFER REMAINDER       | 0.14   | 5      |  |
| PRESERVATION %                     | 50.77% |        |  |
| TREE CANOPY-TOTALS                 | 6.18   | 269    |  |
| TREE CANOPY REMAINDER TOTALS       | 5.60   | 244    |  |
| PRESERVATION %                     | 90.66% |        |  |
|                                    |        |        |  |

## FINAL TREE CANOPY COVER CALCULATIONS

|   | ACRES | SQUA  |
|---|-------|-------|
| TOTAL PLAT AREA                         | 42.23 | 1,839 |
| 38% TREE CANOPY REQUIRED                | 16.05 | 698   |
| TREE CANOPY REMAINING                   | 15.79 | 687   |
| TREE CANOPY-FLOODPLAIN REMAINING        | 0.71  | 30    |
| TREE CANOPY-STEEP SLOPE REMAINING       | 5.47  | 238   |
| TREE CANOPY-FLOODPLAIN BUFFER REMAINING | 0.14  | 5     |
| TOTAL TREE CANOPY REMAINING             | 22.10 | 962   |
| TOTAL TREE CANOPY % REMAINING           |       | 52.3% |
|   |       |       |

# NOTES :

- 1. SHADED TREE LISTINGS ARE TO BE REMOVED.
- 2. TOTAL INCHES OF SURPLUS WAS CALCULATED USING A SHADED AREA OF 875 FOR LIVE OAK TREE, OBTAINED FROM CoSA UDC CHAPTER 35 APPENDIX E.
- 3. CONTRACTOR TO ENSURE PRESERVATION OF AT LEAST 50% OF THE ROOT PROTECTION ZONE FOR HERITAGE TREES 5697, 4689, 4619, 4591, 4504.

| TREE CAN   | OPY CALCULATIONS  |                              |                           |  |
|--|---|------------------------------|---------------------------|--|
|  | ACRES   | SQUARE FEET                  | SCALE: 1                  | l"=200'  |
| TREE CANOPY<br>TREE CANOPY REMOVAL   | 20.29 4.51  | 883,902<br>196,300           | 0 100' 200                | ' 300' 40  |
| TREE CANOPY REMAINDER  | 15.79   | 687,602                      | SHEET SIZE                |  |
| PRESERVATION %   | 77.79%  |                              | 2/3/                      | 2021   |
| REQUIRED PRESERVATION (35%)<br>TREE CANOPY SURPLUS                                     | 883,902 SF X 35%<br>687,602.00 SF - 309,365.70 SF           | 309,365.70<br>378,236.30     | S. S. M. L                | Star B   |
| INCHES OF SURPLUS  | 378,236.30 SF / 875 = 432.27 TREES                          | 7,219 IN.                    | CODY IFF                  |  |
|  | 432.27 TREES X 16.7 =                                       |                              | 1314                      | MURRIS   |
|  | ACRES   | SQUARE FEET                  | SS CENS                   | ED   |
| TREE CANOPY-ESA<br>TREE CANOPY-ESA REMOVAL   | 5.91  | 257,379<br>19,321            | 019                       |  |
| TREE CANOPY-ESA REMAINDER  | 5.47  | 238,059                      | REVISIONS:                |  |
| PRESERVATION %<br>REQUIRED PRESERVATION (80%)  | 92.49%<br>257,379 SF X 80%                                  | 205,903.39                   |                           |  |
| TREE CANOPY SURPLUS  | 238,058.60 SF - 205,903.39 SF                               | 32,155.21                    |                           |  |
| INCHES OF SURPLUS  | 32,155.21 SF / 875 = 36.75 TREES<br>36.75 TREES X 16.7 =    | 614 IN.                      |                           |  |
| TREE CANOPY-I  | FLOODPLAIN BUFFER ESA                                       | SQUARE FEET                  |                           |  |
| TREE CANOPY-BUFFER   | 0.27  | 11,801                       |                           |  |
| TREE CANOPY-BUFFER REMOVAL<br>TREE CANOPY-BUFFER REMAINDER                             | 0.13  | 5,810<br>5,991               |                           |  |
| PRESERVATION %   | 50.77%  |                              |                           |  |
| REQUIRED PRESERVATION (80%)<br>TREE CANOPY SURPLUS                                     | 11,801 SF X 80%<br>5,991.00 SF - 9,440.80 SF                | 9,440.80<br>(3,450)          |                           | <b>r m</b>   |
| INCHES OF SURPLUS  | -3,449.80 SF / 875 = -3.94 TREES                            | ( 66) IN.                    |                           |  |
|  | -3.94 TREES X 16.7 =<br>IOPY-FLOODPLAIN                     |                              | <b>OOVE</b><br>BNGINEERIN | & SURVEYING\$ spencer road suffe 100\$ spencer road suffe 100\$ soerne, texas 78006\$ soerne, texas 78006\$ soerne, texas 78628\$ contact@matkinhoover.com |
|  | ACRES   | SQUARE FEET                  |                           | AVI<br>AD SU<br>, TEXA<br>1, 2244  |
| TREE CANOPY-FLOODPLAIN TREE CANOPY-FLOODPLAIN REMOVAL                                  | <u> </u>  | 50,980<br>19,991             |                           | SUR <sup>1</sup><br>ELL ROAD<br>ETOWN, T<br>: 512.868.22   |
| TREE CANOPY-FLOODPLAIN REMAINDER   | 0.71  | 30,989                       |                           | OR SHEI<br>03 SHEI<br>03 SHEI<br>03 SHEI<br>03 SHEI<br>03 SHEI<br>03 SHEI  |
| PRESERVATION %<br>REQUIRED PRESERVATION (80%)  | 60.79%<br>50,980 SF X 80%                                   | 40,784.00                    |                           | 33(<br>GF<br>OF  |
| TREE CANOPY SURPLUS  | 30,989.00 SF - 40,784.00 SF                                 | (9,795)                      |                           | 2  |
| INCHES OF SURPLUS  | -9,795.00 SF / 875 = -11.19 TREES<br>-11.19 TREES X 16.7 =  | (187) IN.                    |                           | BR.COM   |
| CANOPY AR<br>TREE CANO<br>TREE CANOPY - ESA (STEEF<br>TREE CANOPY-FLO<br>TOTAL SURPLUS | PY 7 PSLOPE+BUFFER) ODPLAIN INCHES 7 RITAGE TREE MITIGATION | ,219<br>548<br>(187)<br>,580 |                           | 8 SPENCER ROAD SUITE 100<br>BOERNE, TEXAS 78006<br>OFFICE: 830.249.0600<br>CONTACT@MATKINHOOVER.COM  |
| HERITAGE INCHES REMOVED  | INCHES<br>51  |                              |                           |  |
| HERITAGE MITIGATION REQUIRED (3:1) (IN.  |   |                              |                           |  |
| HERITAGE + FLOODPLAIN (IN.)  | 340   |                              |                           |  |
| NUMBER OF LOTS<br>PROPOSED TREE SIZE (IN.) TO PLANT PER LC                             | 29<br>T 2   |                              |                           |  |
| REQUIRED 1.5" TREES PER LOT  | 58  |                              |                           |  |
| REQ'D TREES - 0.5" TOWARD MITIGATION (IN<br>PROPOSED 8 ADDT'L 2 IN. TREES PER LOT (IN  |   |                              |                           |  |
| TOTAL PROPOSED MITIGATION  | 493   |                              |                           |  |
| PROJ   | ECT BOUNDARY  |                              | z                         | Ö  |
| TREE   | CANOPY  |                              |                           | . (P.L   |
| TREE   |   | SPRINGS UNIT 2 (             |                           |  |
|  | TREE CANOPY IN<br>FLOODPLAIN                                |                              |                           |  |
| TREE   | CANOPY IN   |                              | PRESERVATION PLAN         | PECAN SPRINGS UNIT 2 (P.U.D.)<br>REXAR COUNTY TEXAS  |
|  | DPLAIN REMOVED<br>CANOPY- STEEP SLOPE ESA                   |                              | IREE P                    | AN SI  |
| TREE   | CANOPY- STEEP SLOPE ESA                                     | REMOVED                      | TR                        | PEC/   |
| TREE   | CANOPY - FLOODPLAIN BUFF                                    | ER ESA AREA                  |                           | _  |
|  | CANOPY - FLOODPLAIN BUFF                                    | FER ESA AREA                 |                           |  |
| REMC   | ING HERITAGE TREE   |                              | PLAT # 19-                | -11800442  |
| $\sim$   |   |                              | MDP # 20-                 |  |
| REMC   | VED HERITAGE TREE   |                              |                           |  |
|  |   |                              | JOB NO.                   | 2990.52  |
|  |   |                              | DESIGNED BY:<br>DRAWN BY: | AM / DAF<br>DAP  |
|  |   |                              | CHECKED BY:               | GK   |
|  |   |                              |                           |  |

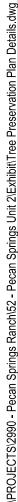
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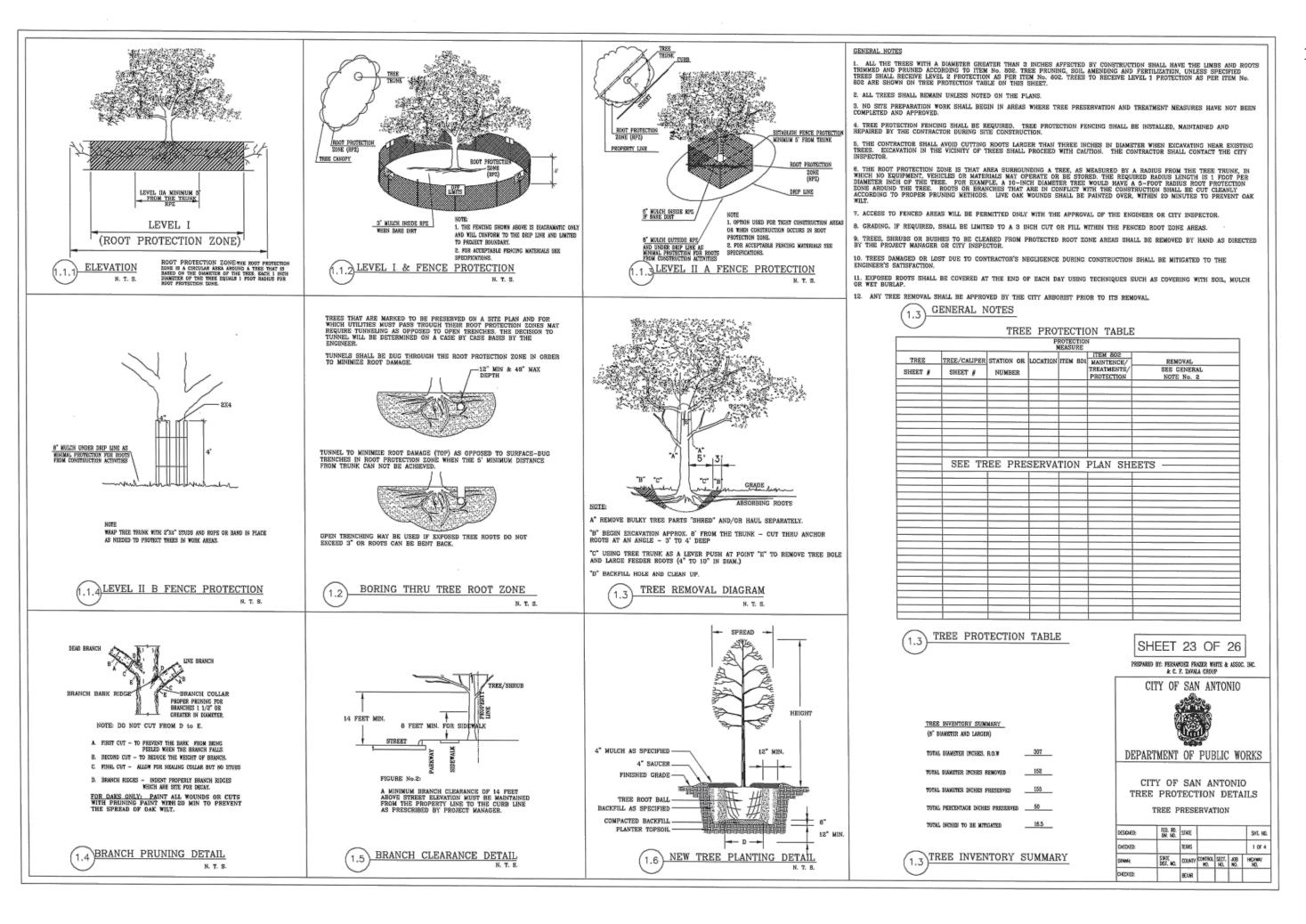
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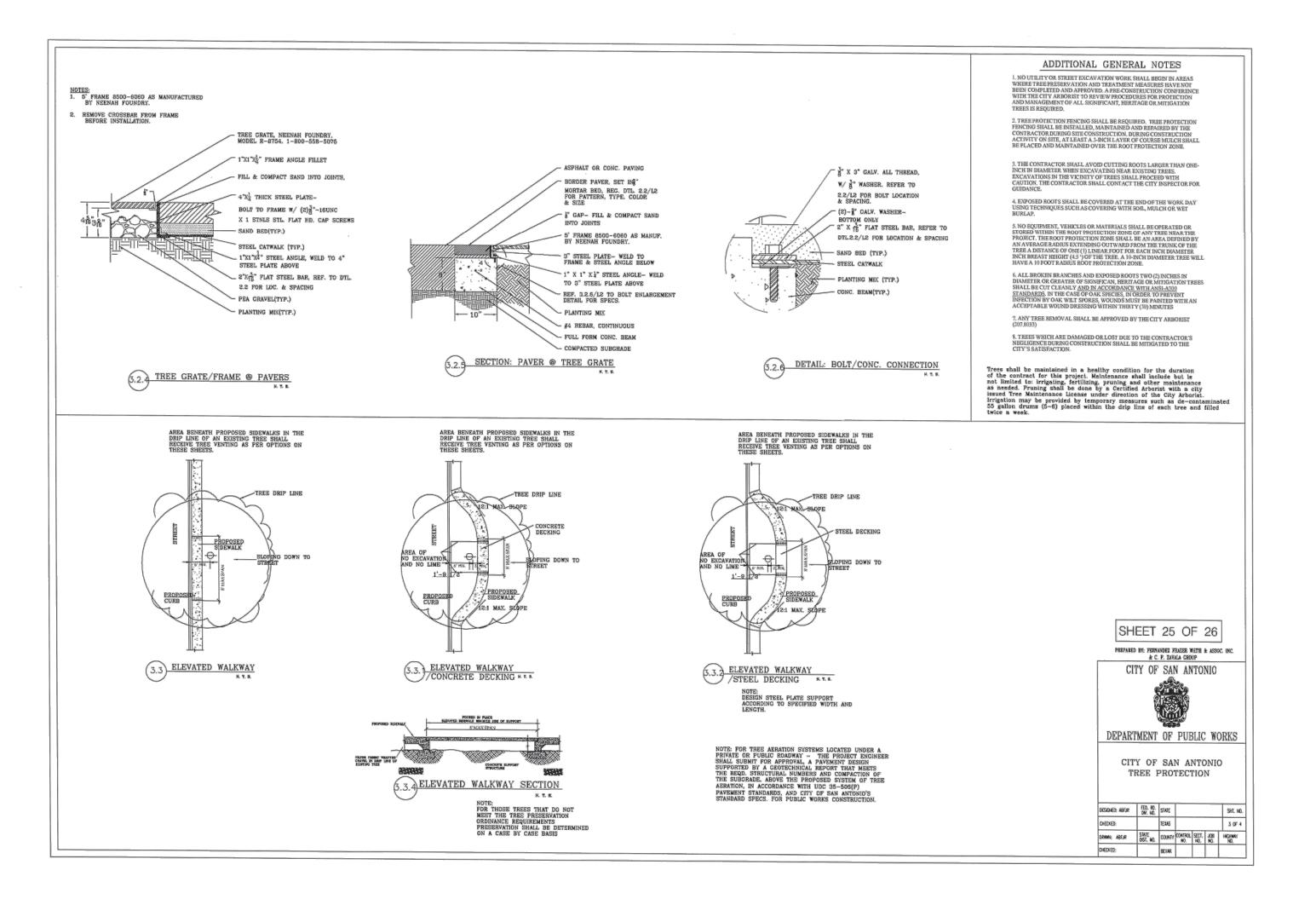
ARE FEET 57,379 38,059 % 11,801 5,991 7% 69,180 244,050 5%

ARE FEET 39,364.56 98,958.53 87,602.00 30,989.00 38,058.60 5,991.00 62,640.60

Date: Feb 10, 2021, 8:39am User ID: cmorris







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   TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S
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   ALL DE DOUTED AT THE END OF FACULDAY HONO TECHNIQUES ON THAT AD ON FRANCISCON WITH OOK AN AD ON FRANCISCON STRUCTURE ON THE ONE OF THE ENGINEER'S DURING TECHNIQUES ON THE ONE OF TH
- 11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.
   SEE PROTECTION PLAN FOR TREE PRESERVATION DETAILS
- SHEET SIZE: 24" x 36" 2/3/202 ATE OF TEL × CODY LEE MORRIS 131472 3. 131472 CENSED. REVISIONS: 8 SPENCER ROAD SUJ BOERNE, TEXAS 7800 OFFICE: 830.249.0600 CONTACT@MATKINI Ш SHE S AIL Ω - $\sim$ ĹШ 2  $\Box$ UNIT AN Ц S PRING: **RVATION** Ċ XAR S Z Ш ဟ C Ш ЫЩ PR Ш Ш TR PLAT # 19-11800442 MDP # 20-11100010 2990.52 JOB NO. AM / DAP **DESIGNED BY:** DAP DRAWN BY:

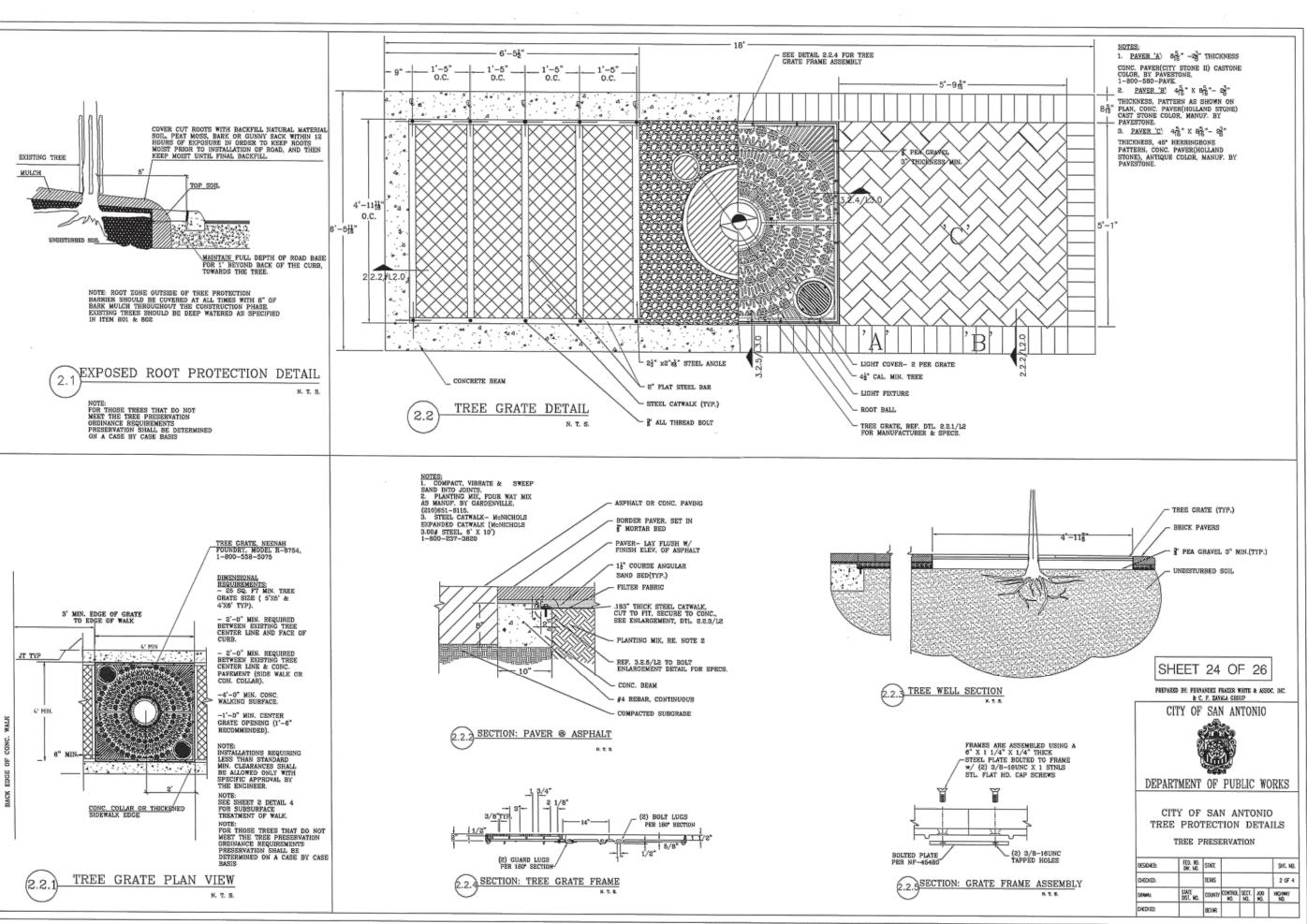
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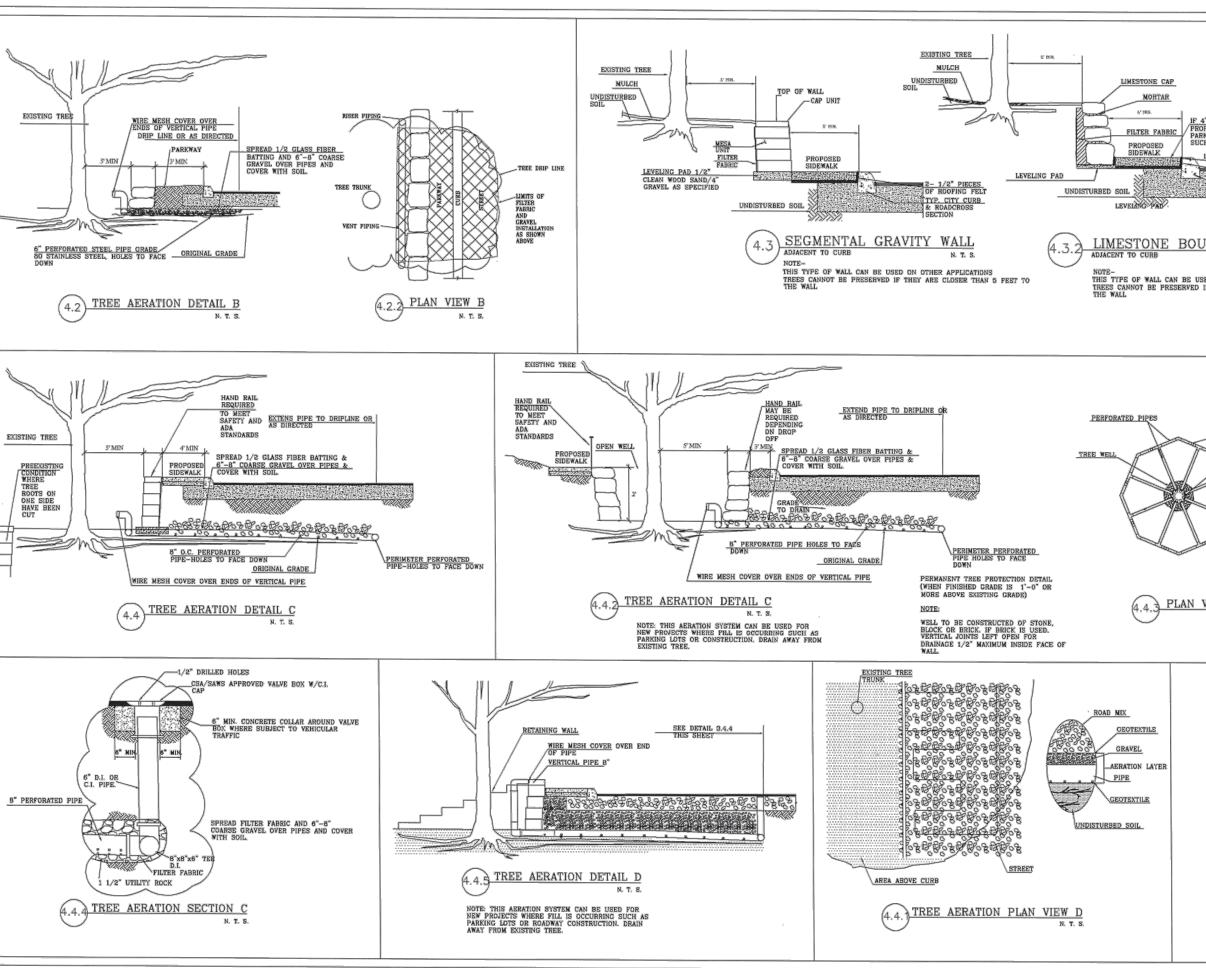
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| PREPARED BY: FERNANDEZ FRAZER WHITE & ASSOC. D.C.                    |   |                 |                |                     |              |                          |   |
| & C. F. ZAVALA GROUP   |   |                 |                |                     |              |                          |   |
| CITY OF SAN ANTONIO  |   |                 |                |                     |              |                          |   |
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| DEPARTMENT OF PUBLIC WORKS   |   |                 |                |                     |              |                          |   |
| PERMITTER OF LODIO WORDS   |   |                 |                |                     |              |                          |   |
| CIM  | VOP                                       | Q.A.            | NT A.          | MTC.                | 18172        | ,                        |   |
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|  | FED. RD.<br>DW. ND.                       |                 |                |                     |              | +1                       |   |
| CHECKED:   |   | TEXAS           |                |                     |              | 4 0F 4                   |   |
| CHECKED:<br>DRAWN:   |   | TEXAS<br>COUNTY | CONTROL NO.    | SECT.               | JOB<br>NO.   |                          |   |
|  | FED. RD.<br>OW. ND.<br>STATE<br>DIST. WO. |                 | CONTROL<br>NO. | SECT.<br>NO.        | JOB<br>NO.   | 4 OF 4<br>HICHWAY<br>NO, |   |
| DRAWNE:  |   | COUNTY          | CONTROL<br>NO. | sect.<br>No.        | JOB<br>NO.   |                          | _ |

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  12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.
  13. SEE PROTECTION PLAN FOR TREE PRESERVATION DETAILS
- SEPENCER ROAD SUITE 100
   SEPENCER ROAD SUITE 100
   SEPENCER ROAD SUITE 100

   SEPENCER ROAD SUITE 100
   303 SHELL ROAD SUITE 100

   SEPENCER ROAD SUITE 100
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   SEPENCER ROAD SUITE 100
   303 SHELL ROAD SUITE 100

   SEPENCER ROAD SUITE 100
   303 SHELL ROAD SUITE 100

   DERNE, TEXAS 7806
   303 SHELL ROAD SUITE 100

   OFFICE: 830.249.0600
   303 SHELL ROAD SUITE 100

   CORREL, TEXAS 7806
   303 SHELL ROAD SUITE 100

   DERNE, TEXAS 7806
   303 SHELL ROAD SUITE 100

   TEXAS REGISTERED ENGINEERING FIRM F-004512 SURVEYING FIRM F-1002400

SHEET SIZE: 24" x 36"

2/3/2021

ATE OF TEL

×

CODY LEE MORRIS

3. 131472 CENSED

REVISIONS:

DAP

GK

3 OF 3

DRAWN BY:

SHEET #

CHECKED BY: