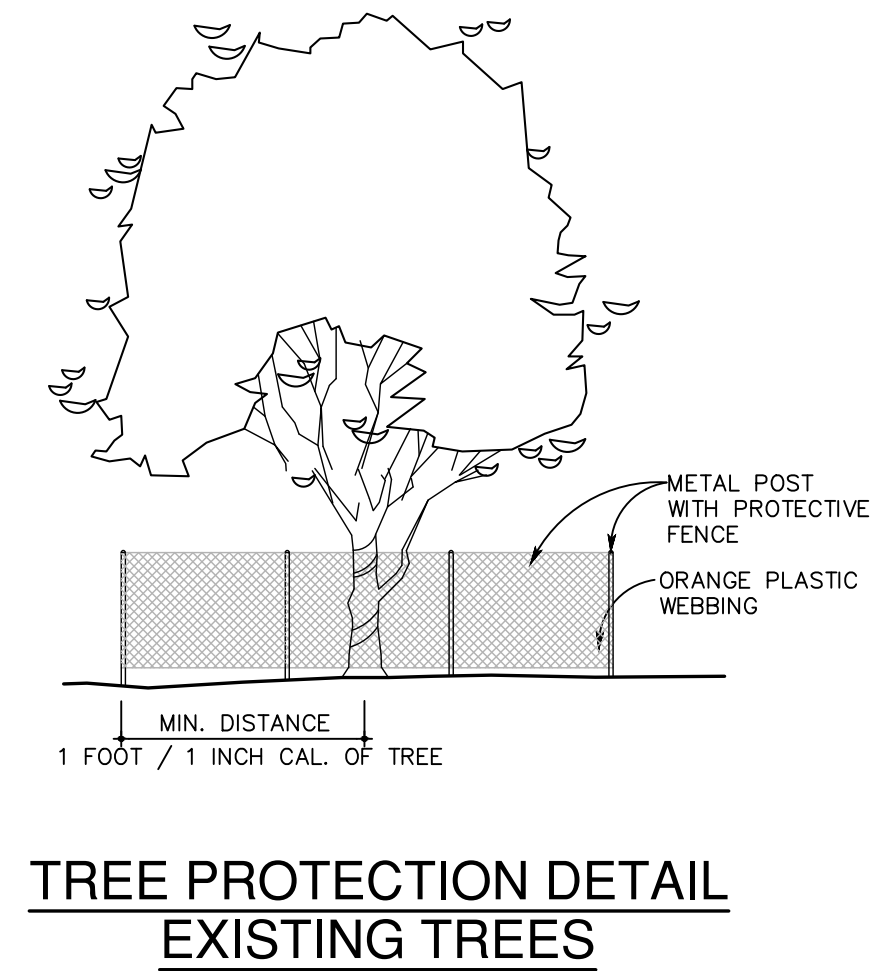
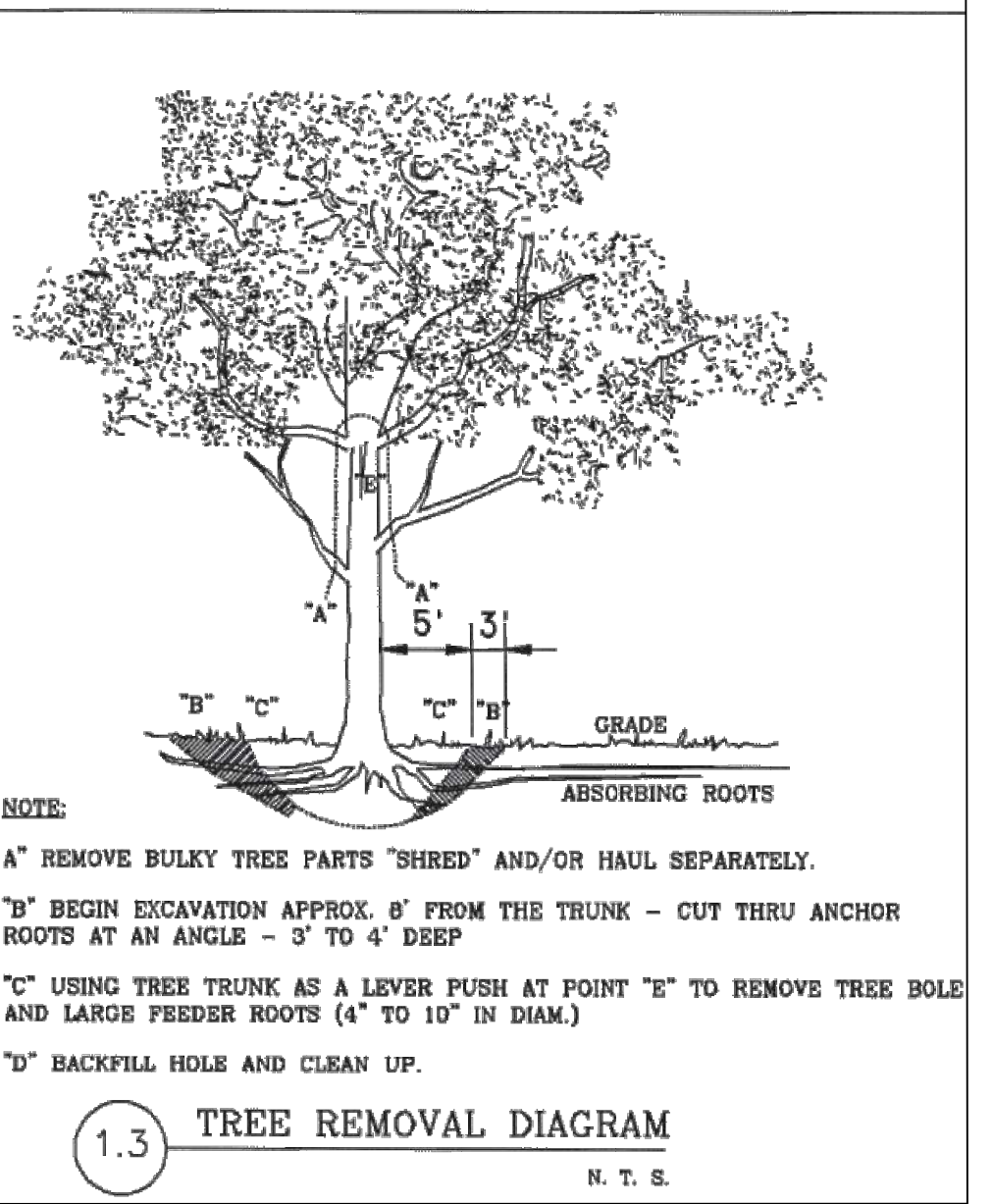
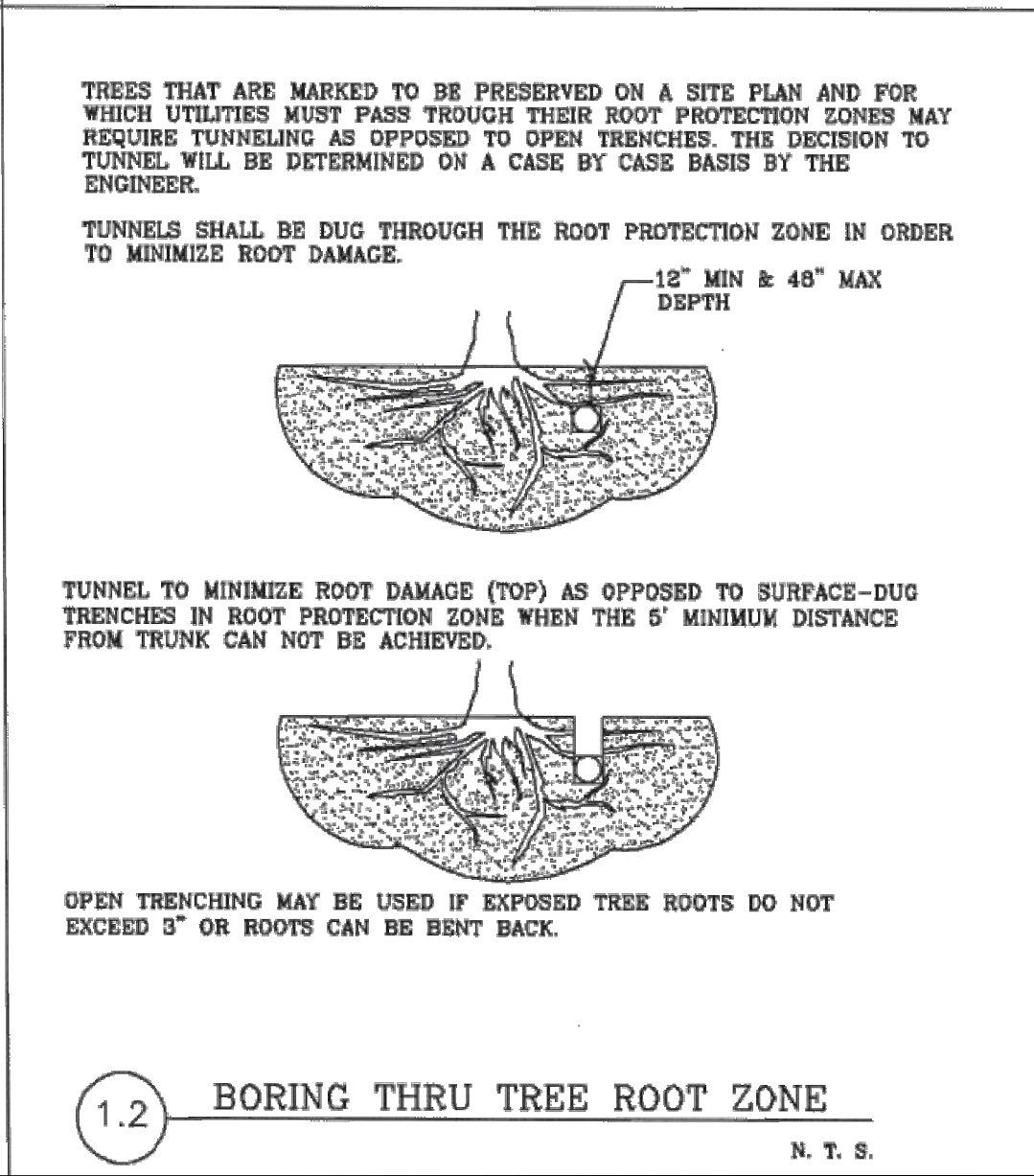
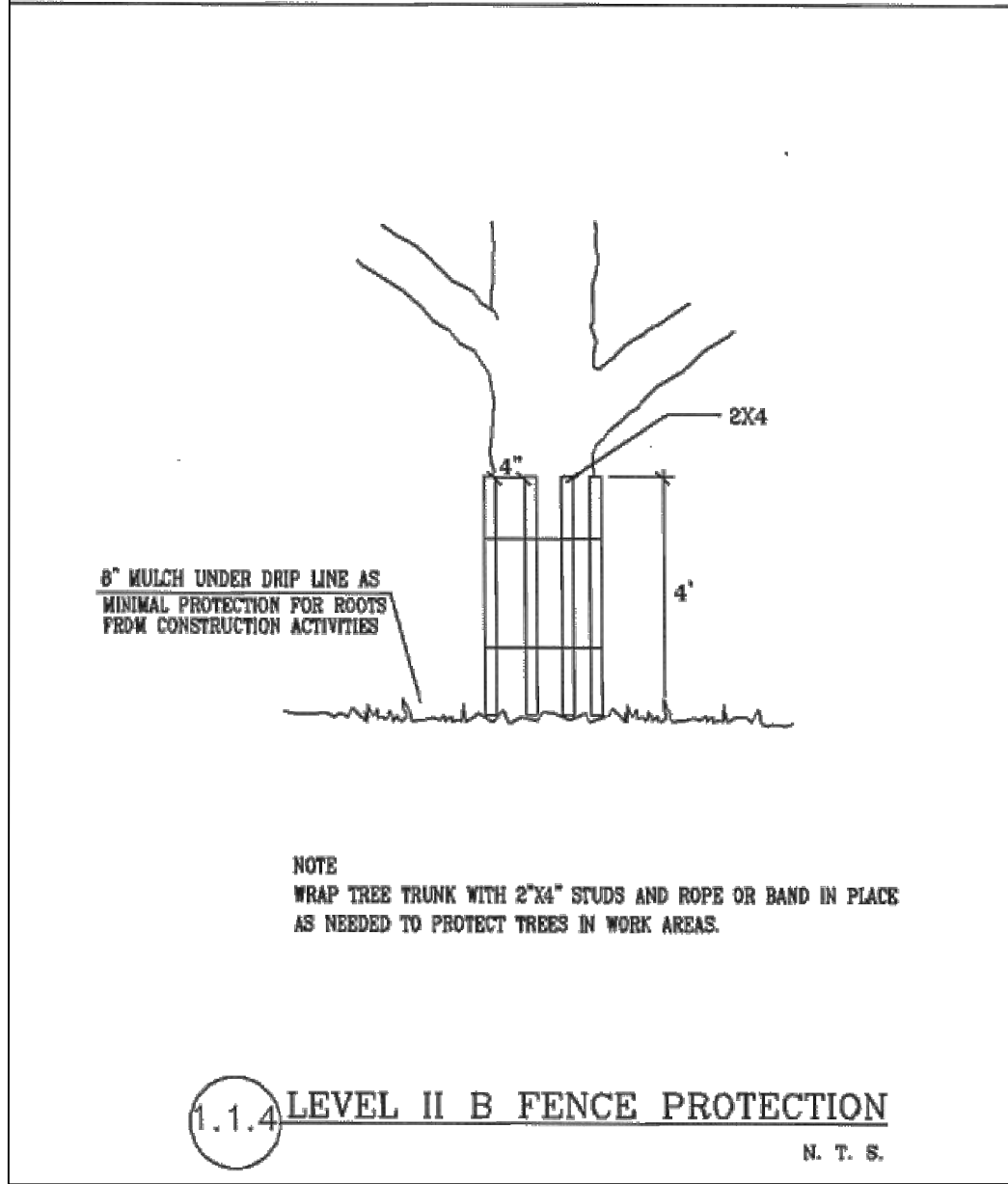
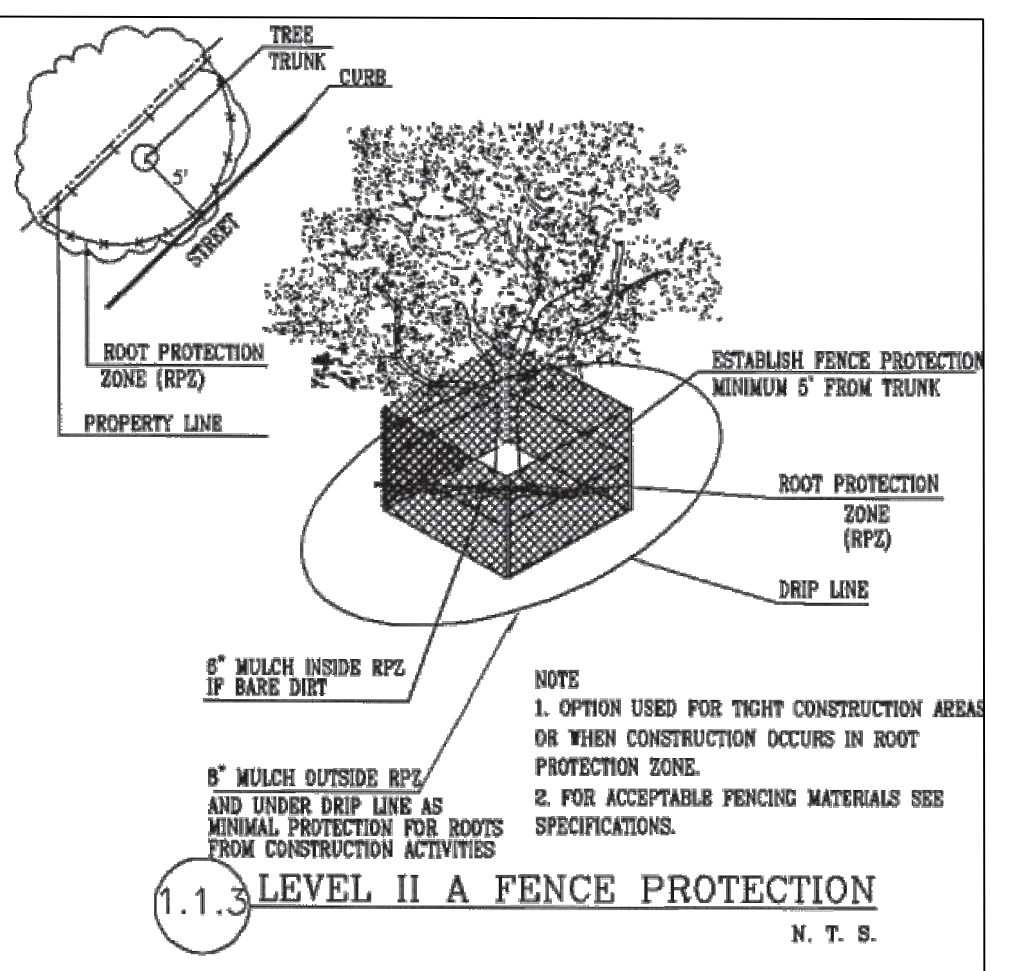
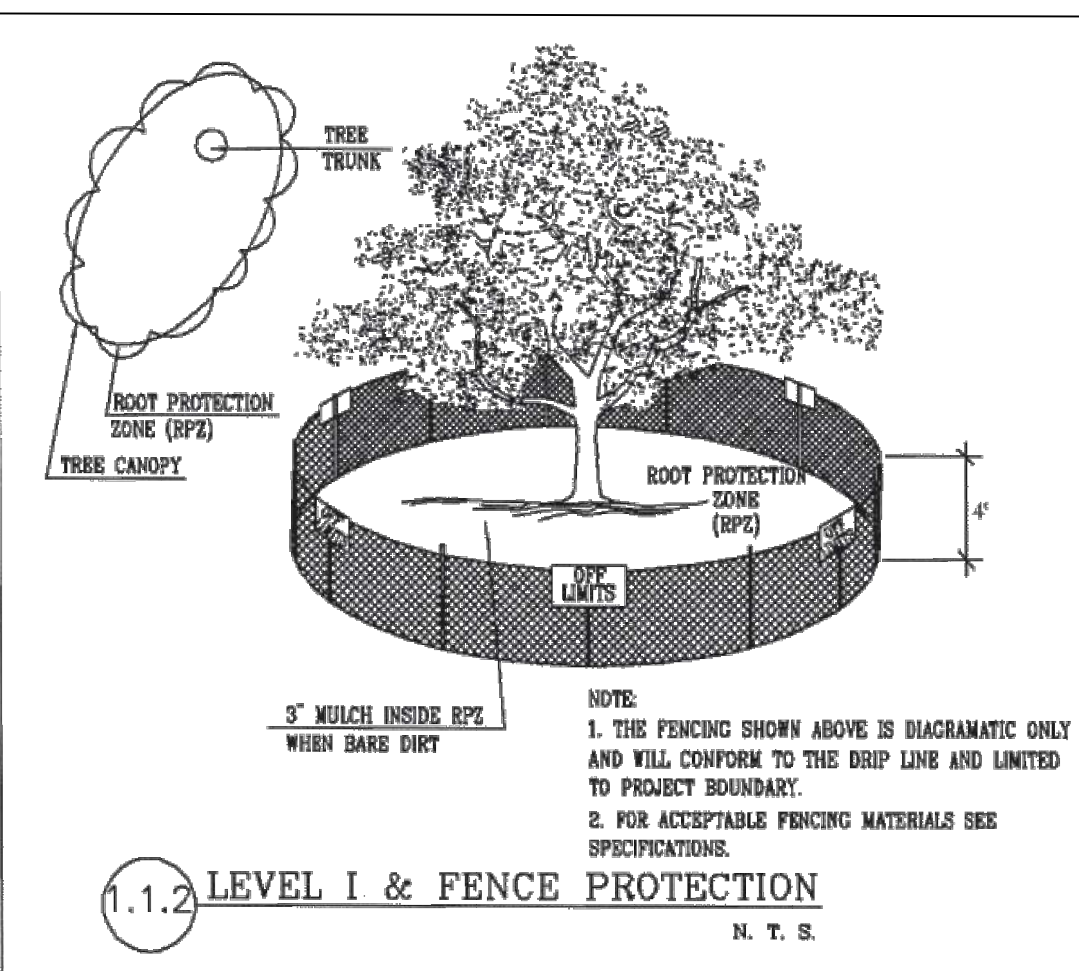
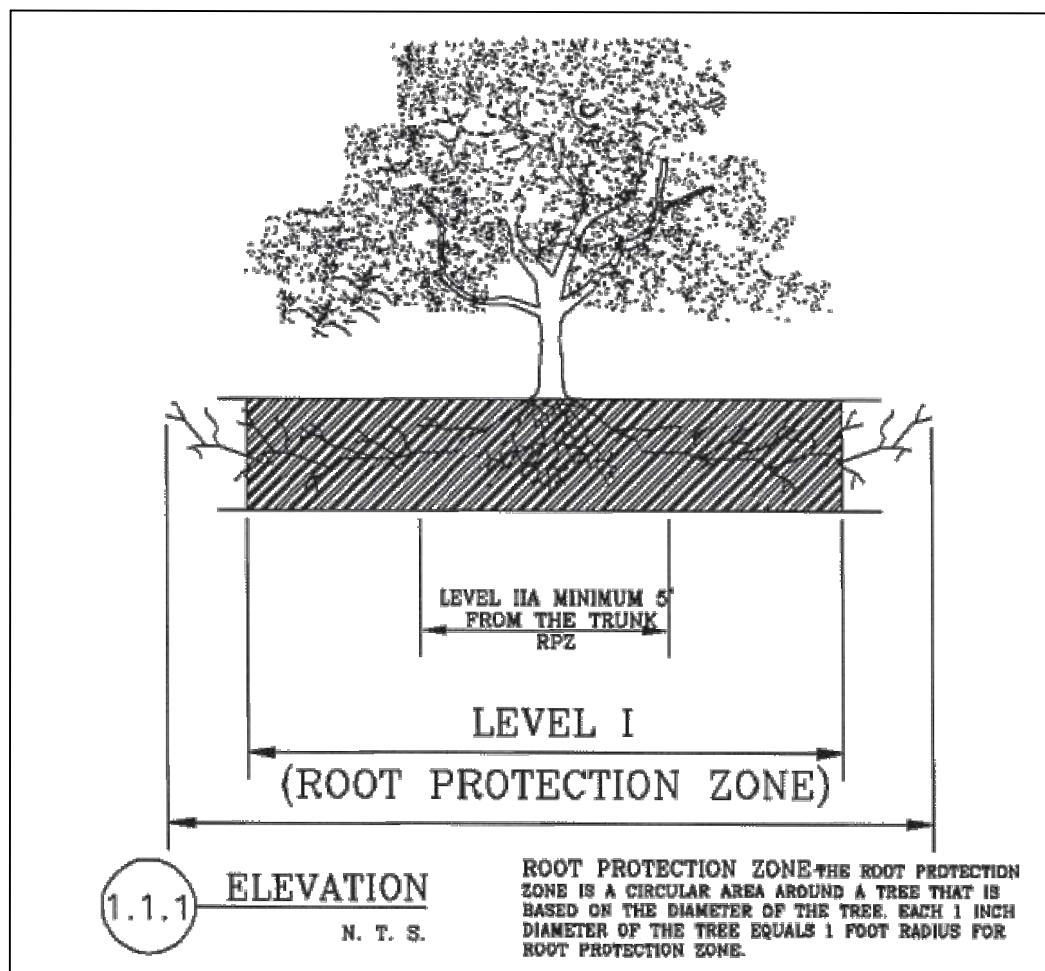


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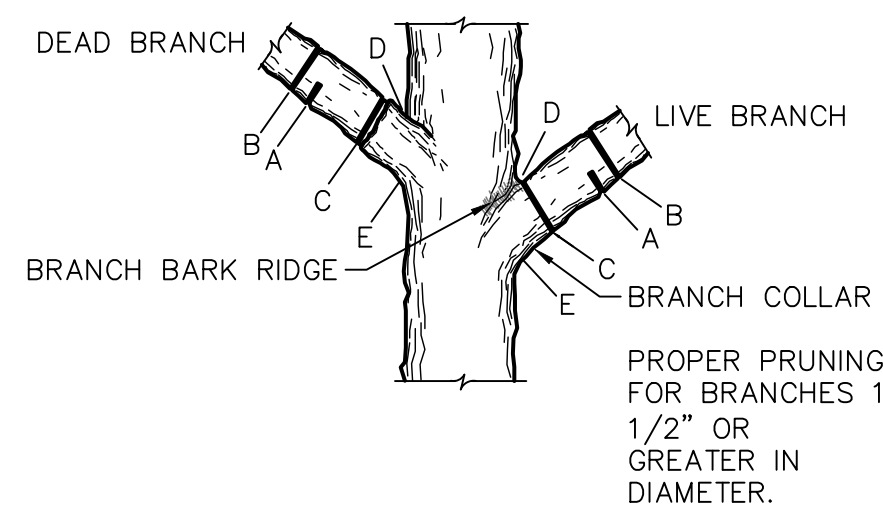
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TREE PROTECTION DETAIL EXISTING TREES
N.T.S.

TREE PRESERVATION NOTES

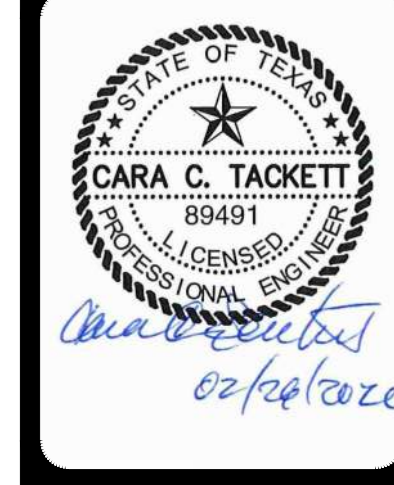
1. ALL TREES TO REMAIN ON SITE REQUIRE PROTECTIVE FENCING, PRUNING, WATERING, AND FERTILIZATION AS DIRECTED BY A QUALIFIED ARBORIST.
2. PROTECTIVE FENCING CONSISTS OF 4'-0" HIGH FENCE.
3. FENCE TO EXTEND FROM TRUNK ONE FOOT FOR EVERY CALIPER INCH OF TREE (MINIMUM). THE OPTIMUM DISTANCE IS TO INSTALL FENCE DIRECTLY BENEATH DRIPLINE 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 DRIPLINE OF THE TREE.



TREE PRUNING DETAIL
N.T.S.

- NOTE:** DO NOT CUT FROM D TO E
- A. **FIRST CUT** - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
 - B. **SECOND CUT** - TO REDUCE THE WEIGHT OF BRANCH.
 - C. **FINAL CUT** - ALLOW FOR HEALING COLLAR BUT NO STUBS
 - D. **BRANCH RIDGES** - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.
- FOR OAKS ONLY:** PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN. TO PREVENT THE SPREAD OF OAK WILT.

DATE	
NO.	
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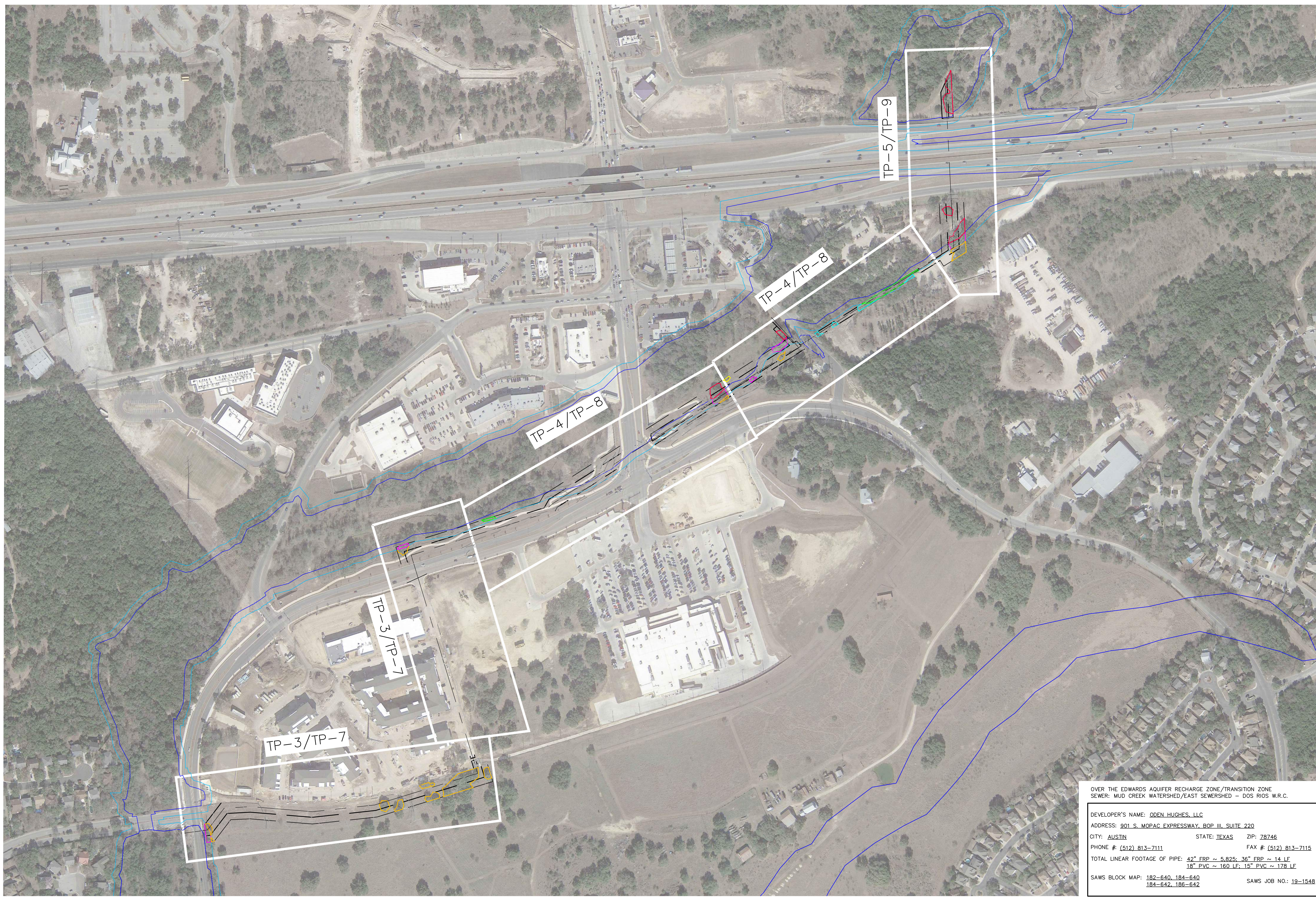
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 TYPE FIRM REGISTRATION #470 | TPELS FIRM REGISTRATION #10038800

SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
TREE STAND DELINEATION PLAN
TREE PLAN DETAILS

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.	
DEVELOPER'S NAME: ODEN HUGHES, LLC	
ADDRESS: 901 S. MOPAC EXPRESSWAY, BOP III, SUITE 220	
CITY: AUSTIN STATE: TEXAS ZIP: 78746	
PHONE #: (512) 813-7111 FAX #: (512) 813-7115	
TOTAL LINEAR FOOTAGE OF PIPE: 42" FRP ~ 5,825; 36" FRP ~ 14 LF 18" PVC ~ 160 LF; 15" PVC ~ 178 LF	
SAWS BLOCK MAP: 182-640, 184-640 184-642, 186-642	SAWS JOB NO.: 19-1548

SAWS JOB NO.	19-1548
PD JOB NO.	11134-41
DATE	FEBRUARY 2020
DESIGNER	RG/MP
CHECKED JO	DRAWN AL/BS
SHEET	TP-2

Date: Mar 11, 2020, 2:31pm User ID: BSmith
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OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
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SAWS BLOCK MAP: 182-640, 184-640
 184-642, 186-642 SAWS JOB NO.: 19-1548

NO.	REVISION	DATE



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SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS

TREE STAND DELINEATION PLAN
 TREE PLAN OVERVIEW

SAWS JOB NO. 19-1548
 PD JOB NO. 11134-41
 DATE FEBRUARY 2020
 DESIGNER RG/MP
 CHECKED JO DRAWN AL/BS
 SHEET TP-3

DATE	
NO.	REVISION

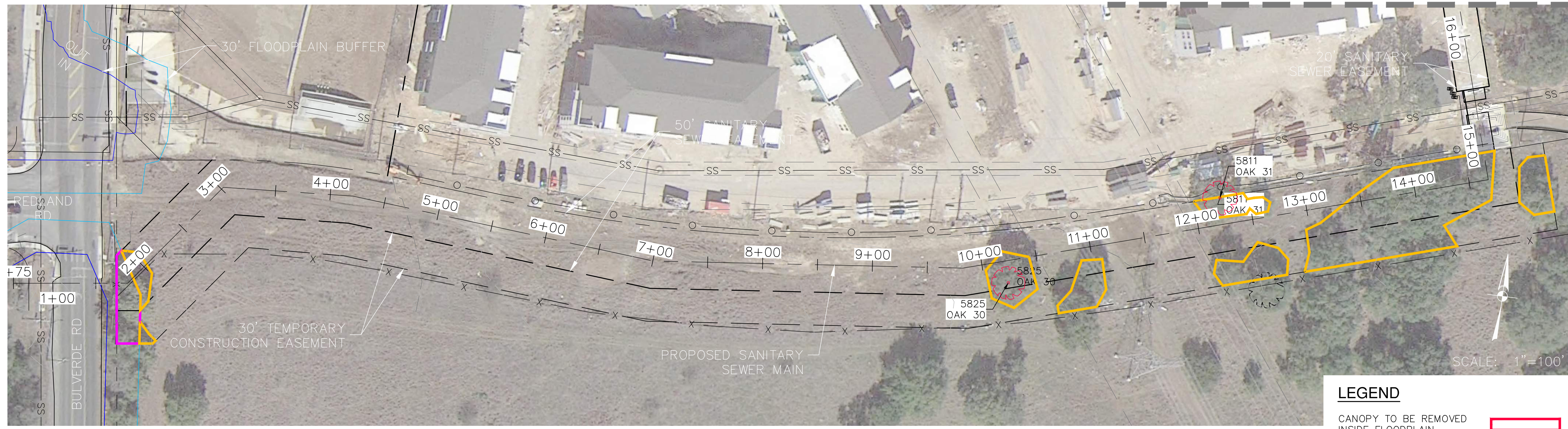


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 TYPE FIRM REGISTRATION #470 | TPELS FIRM REGISTRATION #10038800

SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
 TREE STAND DELINEATION PLAN
 TREE PLAN

SAWS JOB NO. 19-1548
 PD JOB NO. 11134-41
 DATE FEBRUARY 2020
 DESIGNER RG/MP
 CHECKED JO DRAWN AL/BS
 SHEET TP-4

MATCH LINE STA. 16+30
 SEE THIS SHEET



LEGEND

- CANOPY TO BE REMOVED INSIDE FLOODPLAIN ▭
- CANOPY TO BE PRESERVED INSIDE FLOODPLAIN ▭
- CANOPY TO BE REMOVED INSIDE 30' BUFFER ▭
- CANOPY TO BE PRESERVED INSIDE 30' BUFFER ▭
- CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN ▭
- CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN ▭
- HERITAGE TREE TO BE REMOVED ⊗
- HERITAGE TREE TO BE PRESERVED ⊗
- HERITAGE TREE NOT ON SITE ⊗
- PROPOSED SAN. SEWER —
- PERMANENT SEWER ESMT —
- TEMP CONSTRUCTION ESMT - · -
- EXISTING SAWS EASEMENT —
- 100-YEAR FLOODPLAIN —
- 30' FLOODPLAIN BUFFER —
- PROPERTY LINE —

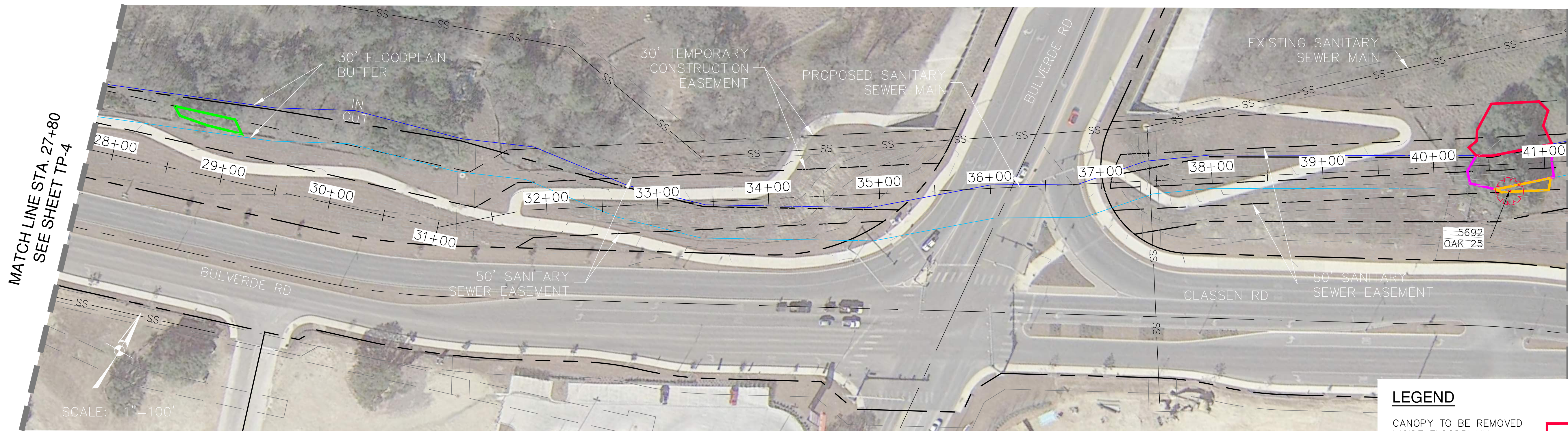
MATCH LINE STA. 16+30
 SEE THIS SHEET



MATCH LINE STA. 27+80
 SEE SHEET TP-5

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
 SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.

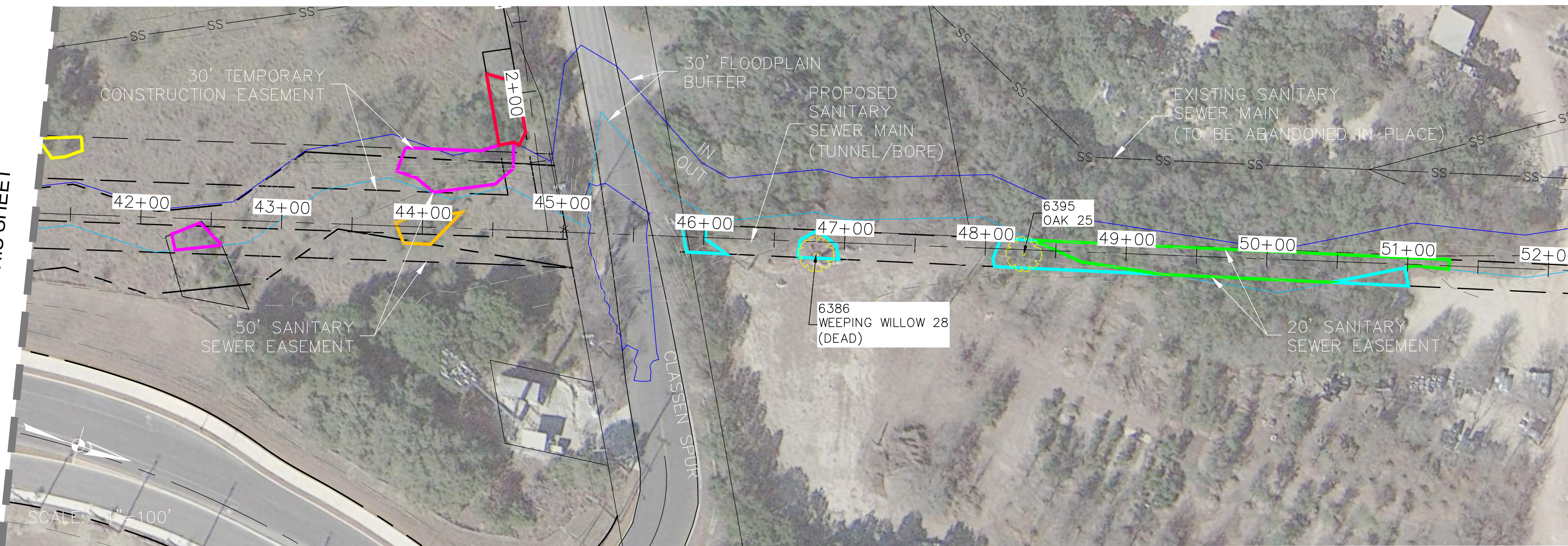
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 18" PVC ~ 160 LF; 15" PVC ~ 178 LF
 SAWS BLOCK MAP: 182-640, 184-640 184-642, 186-642 SAWS JOB NO.: 19-1548



MATCH LINE STA. 27+80
SEE SHEET TP-4

MATCH LINE STA. 41+30
SEE THIS SHEET

SCALE: 1"=100'



MATCH LINE STA. 41+30
SEE THIS SHEET

MATCH LINE STA. 52+28
SEE SHEET TP-6

SCALE: 1"=100'

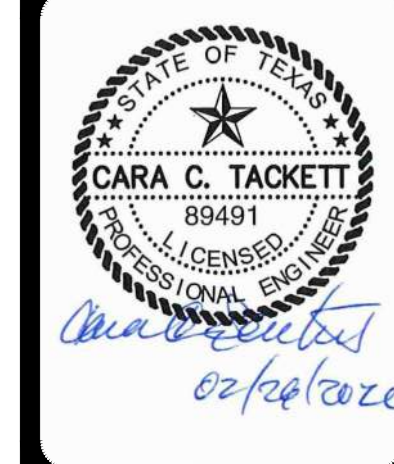
LEGEND

- CANOPY TO BE REMOVED INSIDE FLOODPLAIN ▭
- CANOPY TO BE PRESERVED INSIDE FLOODPLAIN ▭
- CANOPY TO BE REMOVED INSIDE 30' BUFFER ▭
- CANOPY TO BE PRESERVED INSIDE 30' BUFFER ▭
- CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN ▭
- CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN ▭
- HERITAGE TREE TO BE REMOVED ⊗
- HERITAGE TREE TO BE PRESERVED ⊗
- HERITAGE TREE NOT ON SITE ⊗
- PROPOSED SAN. SEWER —
- PERMANENT SEWER ESMT —
- TEMP CONSTRUCTION ESMT - · -
- EXISTING SAWS EASEMENT - - -
- 100-YEAR FLOODPLAIN ▬▬▬
- 30' FLOODPLAIN BUFFER ▬▬▬▬▬
- PROPERTY LINE ▬▬▬▬▬

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.

DEVELOPER'S NAME: ODEN HUGHES, LLC	
ADDRESS: 901 S. MOPAC EXPRESSWAY, BOP III, SUITE 220	
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SAWS BLOCK MAP: 182-640, 184-640	SAWS JOB NO.: 19-1548
184-642, 186-642	

NO.	REVISION	DATE



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 TYPE FIRM REGISTRATION #470 | TPELS FIRM REGISTRATION #10038800

SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
 TREE STAND DELINEATION PLAN
 TREE PLAN

SAWS JOB NO.	19-1548
PD JOB NO.	11134-41
DATE	FEBRUARY 2020
DESIGNER	RG/MP
CHECKED JO	DRAWN AL/BS
SHEET	TP-5

Date: Mar 11, 2020, 2:32pm User ID: BSmith
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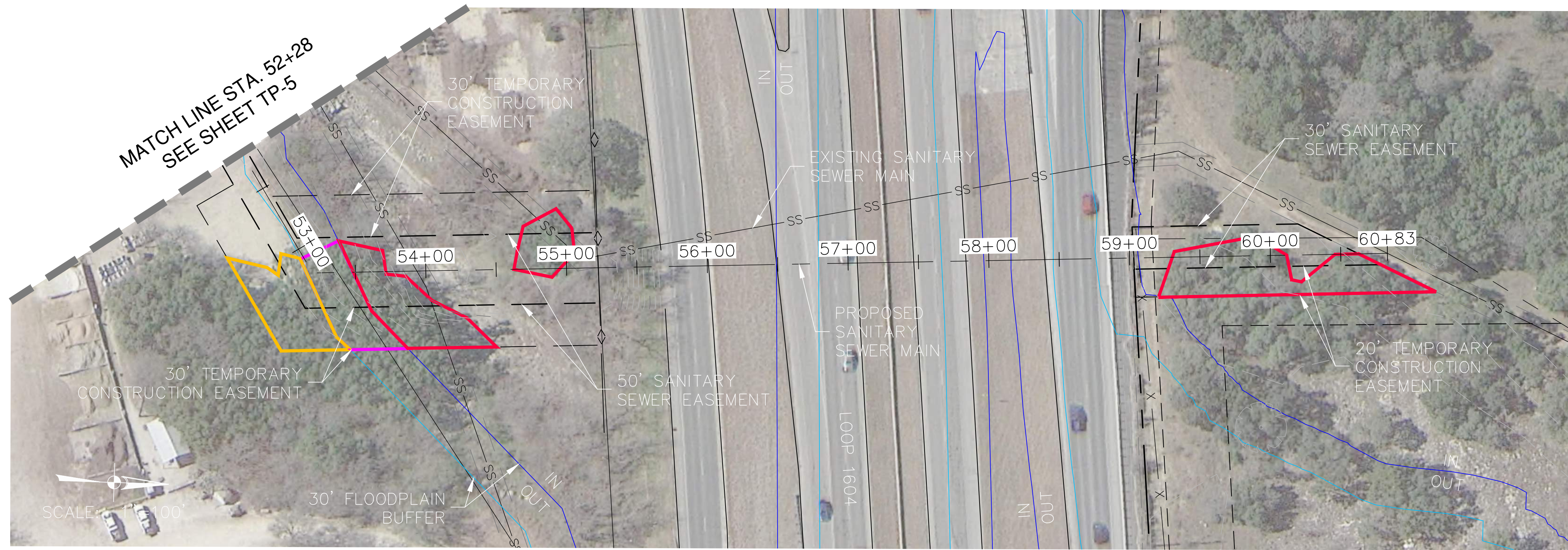
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 TPEL FIRM REGISTRATION #470 | TPEL'S FIRM REGISTRATION #10038800

SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
TREE STAND DELINEATION PLAN
TREE PLAN

SAWS JOB NO. 19-1548
 PD JOB NO. 11134-41
 DATE FEBRUARY 2020
 DESIGNER RG/MP
 CHECKED JO DRAWN AL/BS
 SHEET **TP-6**



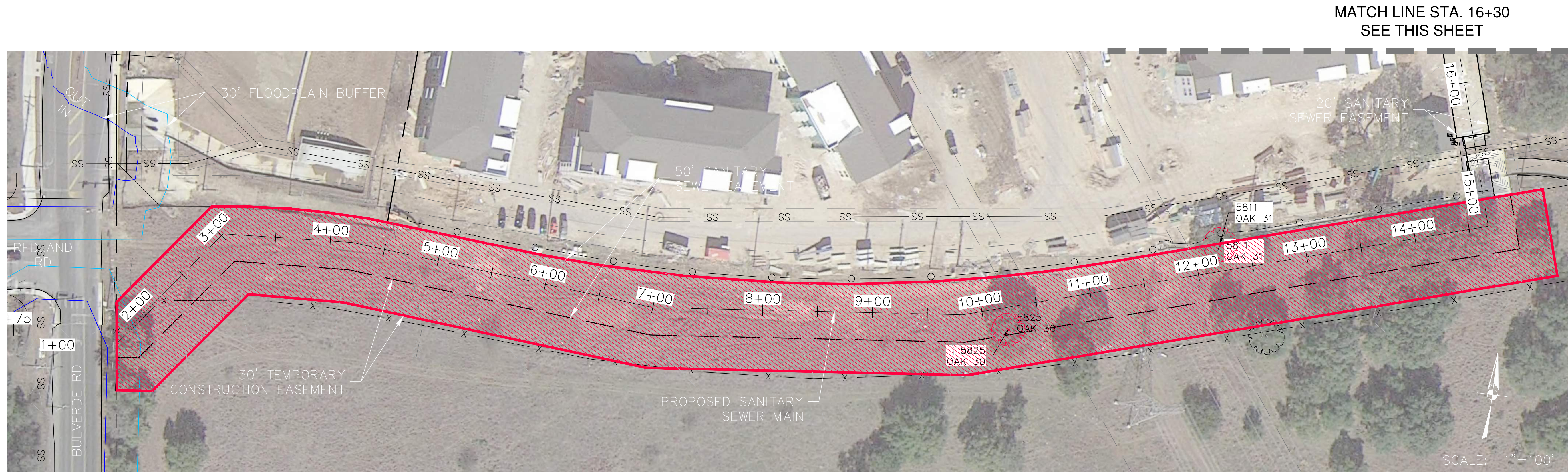
LEGEND

- CANOPY TO BE REMOVED INSIDE FLOODPLAIN
- CANOPY TO BE PRESERVED INSIDE FLOODPLAIN
- CANOPY TO BE REMOVED INSIDE 30' BUFFER
- CANOPY TO BE PRESERVED INSIDE 30' BUFFER
- CANOPY TO BE REMOVED OUTSIDE FLOODPLAIN
- CANOPY TO BE PRESERVED OUTSIDE FLOODPLAIN
- HERITAGE TREE TO BE REMOVED
- HERITAGE TREE TO BE PRESERVED
- HERITAGE TREE NOT ON SITE
- PROPOSED SAN. SEWER
- PERMANENT SEWER ESMT
- TEMP CONSTRUCTION ESMT
- EXISTING SAWS EASEMENT
- 100-YEAR FLOODPLAIN
- 30' FLOODPLAIN BUFFER
- PROPERTY LINE

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
 SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.

DEVELOPER'S NAME: ODEN HUGHES, LLC
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 SAWS BLOCK MAP: 182-640, 184-640, 184-642, 186-642 SAWS JOB NO.: 19-1548

Date: Mar 11, 2020, 2:32pm User ID: BSmith
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MATCH LINE STA. 16+30
SEE THIS SHEET



MATCH LINE STA. 16+30
SEE THIS SHEET

MATCH LINE STA. 27+80
SEE SHEET TP-8

LEGEND

- AREA TO BE SEEDDED WITH NATIVE SEED MIXTURE
- PROPOSED SAN. SEWER
- PERMANENT SEWER ESMT
- TEMP CONSTRUCTION ESMT
- EXISTING SAWS EASEMENT
- 100-YEAR FLOODPLAIN
- 30' FLOODPLAIN BUFFER
- PROPERTY LINE

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.

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 184-642, 186-642

NO.	REVISION	DATE



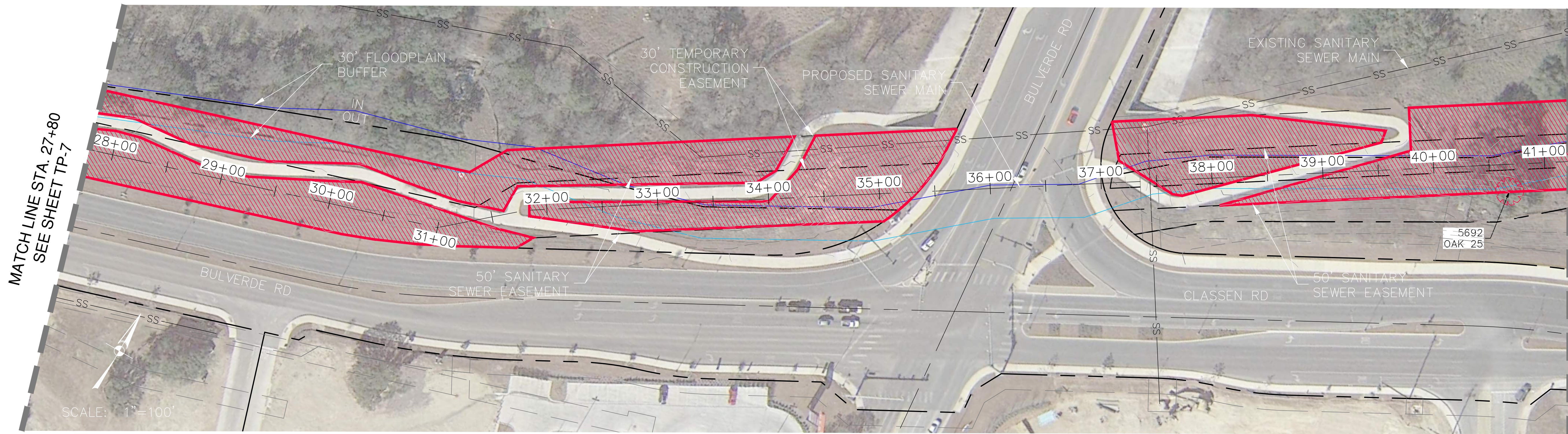
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SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
 TREE STAND DELINEATION PLAN
 NATIVE SEED MIXTURE PLAN

SAWS JOB NO. 19-1548
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 DATE FEBRUARY 2020
 DESIGNER RG/MP
 CHECKED JO DRAWN AL/BS
 SHEET **TP-7**

Date: Mar 11, 2020, 2:33pm User ID: BSmith
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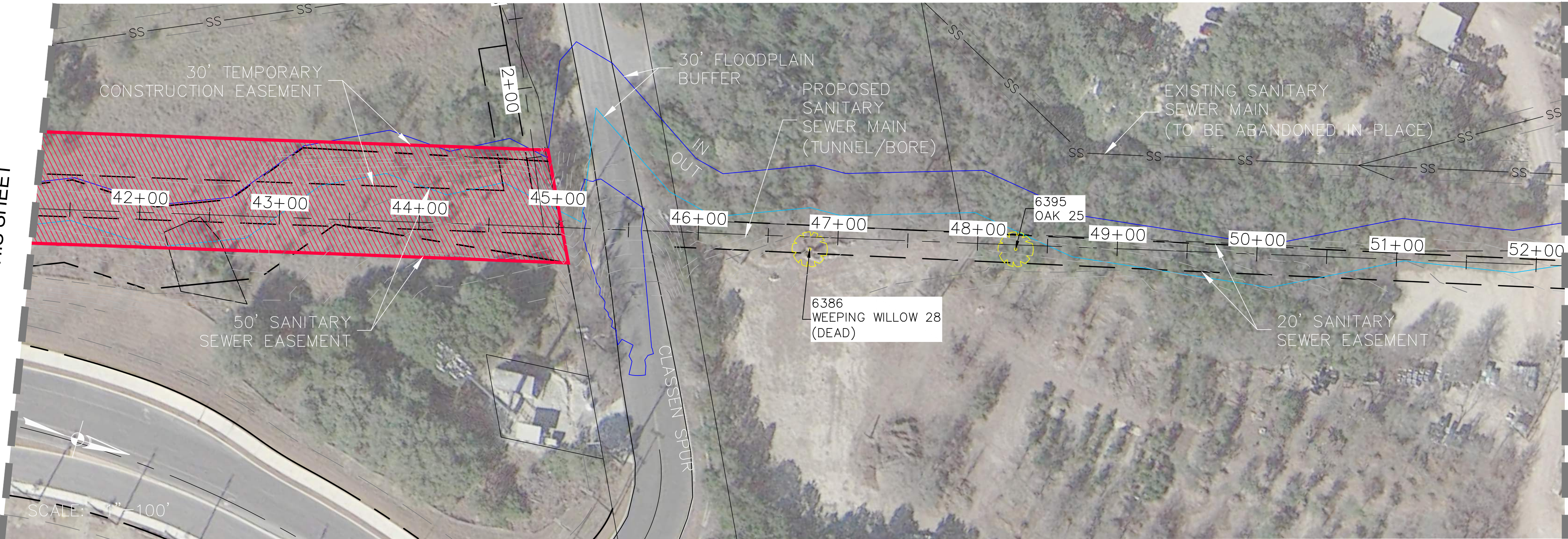
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MATCH LINE STA. 27+80
SEE SHEET TP-7

MATCH LINE STA. 41+30
SEE THIS SHEET

SCALE: 1"=100'



MATCH LINE STA. 41+30
SEE THIS SHEET

MATCH LINE STA. 52+28
SEE SHEET TP-9

SCALE: 1"=100'

LEGEND

- AREA TO BE SEEDED WITH NATIVE SEED MIXTURE
- PROPOSED SAN. SEWER
- PERMANENT SEWER ESMT
- TEMP CONSTRUCTION ESMT
- EXISTING SAWS EASEMENT
- 100-YEAR FLOODPLAIN
- 30' FLOODPLAIN BUFFER
- PROPERTY LINE

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
SEWER: MUD CREEK WATERSHED/EAST SEWERSHED - DOS RIOS W.R.C.

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SAWS BLOCK MAP: 182-640, 184-640 184-642, 186-642	SAWS JOB NO.: 19-1548

NO.	REVISION	DATE



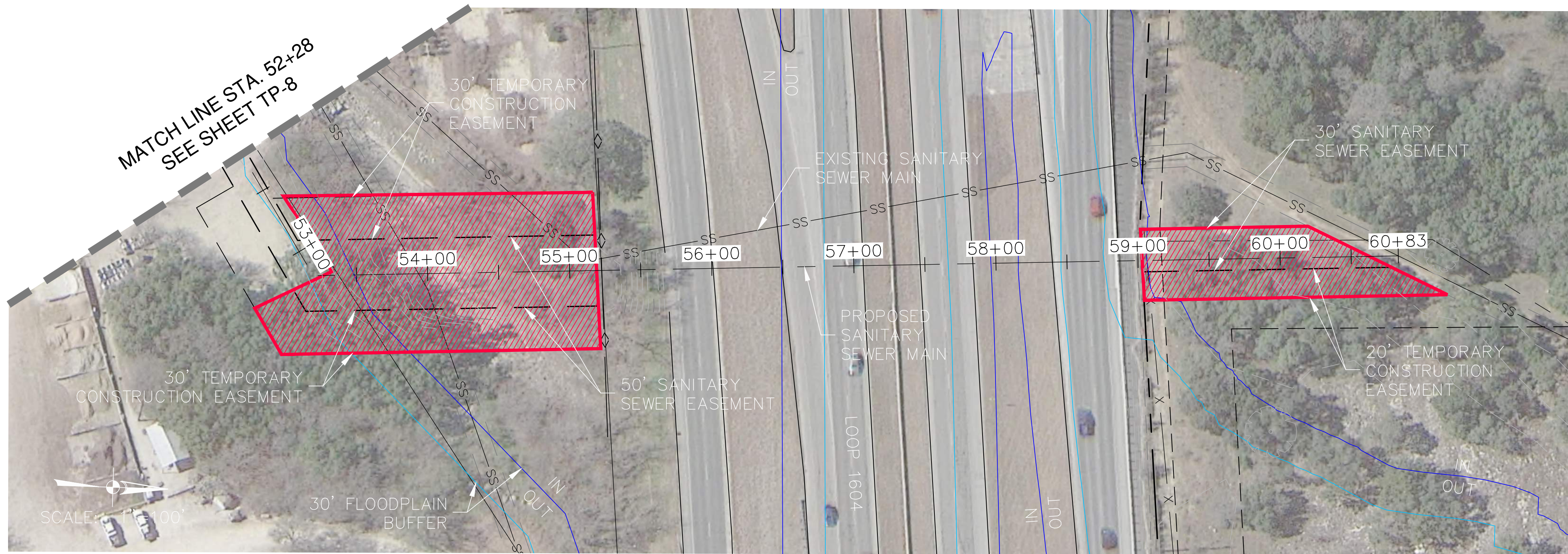
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SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
 TREE STAND DELINEATION PLAN
 NATIVE SEED MIXTURE PLAN

SAWS JOB NO.	19-1548
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SHEET	TP-8

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LEGEND

- AREA TO BE SEEDED WITH NATIVE SEED MIXTURE
- PROPOSED SAN. SEWER
- PERMANENT SEWER ESMT
- TEMP CONSTRUCTION ESMT
- EXISTING SAWS EASEMENT
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- PROPERTY LINE

OVER THE EDWARDS AQUIFER RECHARGE ZONE/TRANSITION ZONE
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SAWS E-4 SANITARY SEWER PROJECT
 SAN ANTONIO, TEXAS
 TREE STAND DELINEATION PLAN
 NATIVE SEED MIXTURE PLAN

SAWS JOB NO. 19-1548
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 SHEET TP-9