

OAK VISTA WATER LINE

CITY OF BURNET
BURNET, TEXAS

CONTRACTOR: _____
DATE WORK BEGAN: _____
DATE WORK COMPLETED: _____
FINAL COST: _____
LIST OF APPROVED REVISIONS:

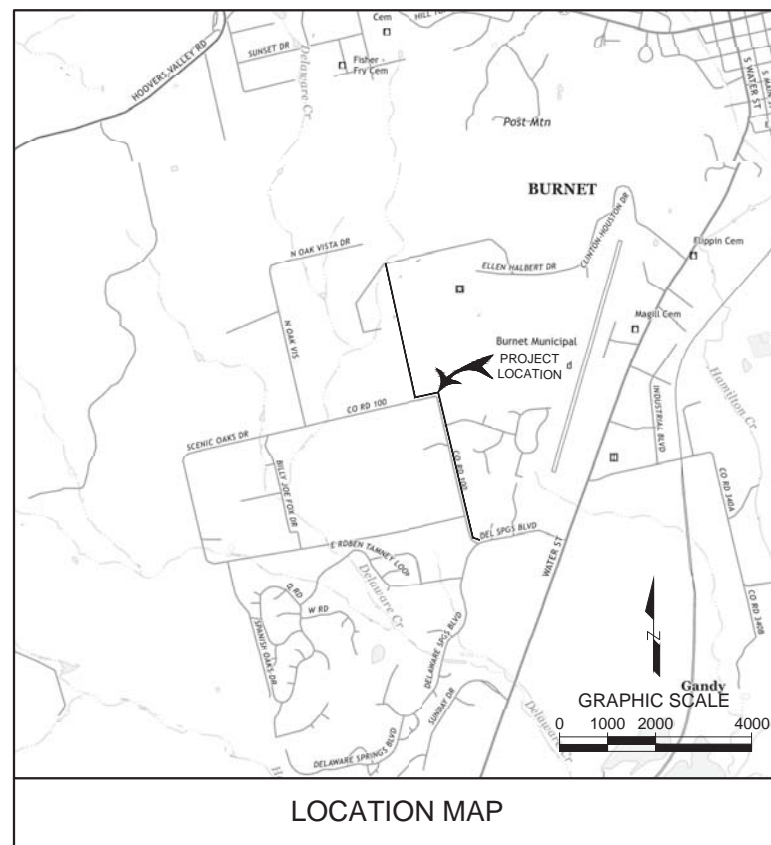
CONSTRUCTION OF WATER IMPROVEMENTS: CONSISTING OF
WATER MAIN AND APPURTENANCES, DEMOLITION AND
RECONSTRUCTION, AND TEMPORARY AND PERMANENT
EROSION CONTROL PRACTICES

SUBMITTAL DATE: OCTOBER 2019
DISTURBED ACREAGE: DISTURBED ACREAGE = 2.90 ACRES
SPECIFICATION NOTE: THESE PLANS ARE GOVERNED BY THE SPECIFICATIONS ENTITLED K.C. ENGINEERING, INC. STANDARD SPECIFICATIONS (3RD EDITION) DATED MAY 2010. ALL REFERENCES TO THE TERM "SPECIFICATIONS" IN THE PLANS SHALL REFER TO THOSE DEFINED ABOVE, UNLESS SPECIFICALLY NOTED OTHERWISE.
MAINTENANCE: WATER IMPROVEMENTS WILL BE MAINTAINED BY THE CITY OF BURNET.

THESE PLANS AND SPECIFICATIONS ARE IN SUBSTANTIAL COMPLIANCE WITH TCEQ CHAPTER 290.

THESE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY AND NOT TO BE SCALED FOR ANY PURPOSES. K.C. ENGINEERING, INC. AND THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANYTHING OBTAINED BY SCALING THESE DRAWINGS.

BENCHMARKS				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM #1	10234772.5057	2952440.4845	1280.29	TOP OF 1/2" IRON PIN WITH "CUPLIN" PROPERTY CAP
TBM #2	10237571.6814	2951580.6232	1296.12	TOP OF 1/2" IRON PIN WITH "LANDTECH" PROPERTY CAP
TBM #3	10237707.8430	2951047.7487	1303.55	TOP OF 1/2" IRON PIN WITH "1877" PROPERTY CAP
TBM #4	10240475.5353	2950333.5588	1303.43	TOP OF NORTHEAST CORNER OF CONCRETE HEADWALL



SHEET NO.	DESCRIPTION
1.0	TITLE SHEET
2.0	GENERAL NOTES
2.1	SWPPP SUMMARY
3.0	CONSTRUCTION CONTROL PLAN
4.0 - 4.6	EXISTING CONDITIONS AND DEMO PLAN
5.0 - 5.7	EROSION CONTROL PLAN
6.0 - 6.13	WATER PLAN & PROFILE
7.0 - 7.2	WATER DETAILS

K.C. ENGINEERING, INC.
CONSULTING ENGINEERS
705 HWY. 281 NORTH, PLAZA I, SUITE 103
MARBLE FALLS, TEXAS 78654
OFFICE: 830-693-5635 FAX: 830-693-9664
Email: info@kcengineering.com
REGISTRATION # F-000977



COVER SHEET
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS



D. Martin Stary
11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Ver.): AS NOTED	Drawn By: NTF
Date:	Checked By: DMS	Date:	Remarks
Rev. No.	Date	Remarks	

SHEET
1.0

OWNER
CITY OF BURNET
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PHONE: 512-323-5252 EXT.21
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SURVEYOR
CODEY CUPLIN, RPLS
CUPLIN & ASSOCIATES LAND SURVEYORS & PLANNERS, INC.
1500 OLLIE LANE
MARBLE FALLS, TEXAS 78654
PHONE: 830-693-8158
EMAIL: CCUPLIN@CUPLINASSOCIATES.COM



Know what's below.
Call before you dig.

GENERAL NOTES:

- 1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THESE APPROVED PLANS. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE PLAN REVISIONS AND APPROVAL OF THE ENGINEER OWNER, AND CITY OF BURNET.
2. CONTRACTORS SHALL CALL THE TEXAS ONE CALL SYSTEM AND APPLICABLE SERVICE PROVIDERS FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN THE EASEMENTS OR ROADWAY RIGHT-OF-WAY AT 1-800-DIG-TESS.
3. THE CONTRACTOR SHALL NOTIFY THE COUNTY AND/OR CITY AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY INSTALLATION OF A DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR ROADWAY RIGHT-OF-WAY OR PRIOR TO INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL MEASURES.
4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, COPIES OF THE OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE, INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 903 SAN JACINTO, RM. 319, AUSTIN, TEXAS 78701.
5. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF BURNET NONPOINT-SOURCE POLLUTION CONTROL ORDINANCE.
6. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT THE APPROVAL OF THE CITY OF BURNET AND OWNER. APPROVAL SHALL INCLUDE THE DISPOSAL SITE.
7. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ANY FACILITY ON SITE.
8. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND GRADED TO DRAIN.
9. UPON APPROVAL OF THE ENGINEER, ALL DEBRIS AND EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE IN A MANNER NOT TO DAMAGE THE SITE.
10. THE INFORMATION CONTAINED ON THESE DRAWINGS IN REGARDS TO EXISTING UTILITIES, TOPOGRAPHY, CONTOURS, OR SUBSURFACE CONDITIONS IS FURNISHED SOLELY AS THE INFORMATION AVAILABLE AT THIS TIME, ITS ACCURACY IS NOT GUARANTEED AND ITS USE IN NO WAY RELIEVES THE CONTRACTOR OF ANY RESPONSIBILITY FOR LOSSES DUE TO ANY INACCURACIES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (N.O.I.) TO THE TCEQ FOR THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF TERMINATION (N.O.T.) UPON COMPLETION OF THE PROJECT.
12. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS, APPLICABLE BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THE PROJECT AND REQUIREMENTS OF THE CITY OF BURNET FIRE DEPARTMENT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS PROJECT.
14. ALL ITEMS NOT SPECIFICALLY CALLED FOR ON THE PLANS, OR IN THE SPECIFICATIONS, BUT NECESSARY TO REASONABLY CONSTRUCT THE FACILITY OR IMPROVEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO SEPARATE PAY ITEMS WILL BE MADE FOR THESE ITEMS.
15. THE CONTRACTOR SHALL EXCAVATE AROUND EXISTING UTILITIES WHICH INTERSECT THE PROPOSED ALIGNMENT OF THE SERVICES AND NOTIFY THE OWNER'S REPRESENTATIVE OF POTENTIAL CONFLICTS, PRIOR TO ANY CONSTRUCTION IN THE AREA.
16. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
17. ALL UTILITY CONNECTIONS TO FACILITIES SHALL BE COORDINATED WITH THE ENGINEER OR INSPECTOR.
18. PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS AND GRADES INDICATED; HOWEVER, DEPTH OF BURY FOR ALL PIPE SHALL BE A MINIMUM OF 3', UNLESS OTHERWISE NOTED.
19. NO WATER JETTING IS ALLOWED ON THIS PROJECT.
20. REFER TO PROJECT SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS AND CONTRACT INFORMATION.

STORM WATER POLLUTION PREVENTION PLAN (SWP3) GENERAL NOTES:

- 1. ALL CONSTRUCTION ACTIVITIES DISTURBING ONE ACRE OR GREATER MUST OBTAIN STORM WATER DISCHARGE AUTHORIZATION FROM THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), THROUGH COMPLIANCE WITH TCEQ'S GENERAL PERMIT #TXR150000. THE PRIMARY CONSTRUCTION SITE OPERATOR(S) (PCSO) MUST PREPARE AND IMPLEMENT AN SWP3 THROUGHOUT CONSTRUCTION WHICH INCLUDES THE EROSION AND SEDIMENT CONTROL (ESC) PLAN AND OTHER BEST MANAGEMENT PRACTICES (BMPs) SPECIFIED IN THESE PLANS APPROVED BY CITY OF BURNET.
2. SMALL CONSTRUCTION ACTIVITIES DISTURBING BETWEEN ONE AND FIVE ACRES SHALL POST A TCEQ CONSTRUCTION SITE NOTICE (CSN) ON SITE PRIOR TO COMMENCING CONSTRUCTION. LARGE CONSTRUCTION ACTIVITIES DISTURBING FIVE ACRES OR GREATER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO TCEQ AND POST THE NOI ON SITE AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING CONSTRUCTION. NOTICES POSTED MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. THE PCSO MUST REVISE THE SWP3 WHENEVER CHANGING SITE CONDITIONS, OR A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS NOT PREVIOUSLY ADDRESSED; OR WHEN RESULTS OF INSPECTIONS BY SITE OPERATORS, THE CITY OF BURNET, TCEQ, OR OTHER LOCAL AGENCY AUTHORIZED TO APPROVE ESC PLANS INDICATE THE SWP3 IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN DISCHARGES FROM THE SITE.
4. TEMPORARY OR PERMANENT EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, AND AS SPECIFIED ON THE PLANS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THESE MEASURES MUST BE INITIATED NO LATER THAN 14 DAYS AFTER CESSATION, UNLESS CONSTRUCTION ACTIVITIES WILL RESUME WITHIN 21 DAYS IN THE AREA.
5. UPON FINAL STABILIZATION OF THE ENTIRE SITE, INCLUDING COMPLETION OF ALL STABILIZATION REQUIREMENTS OF THE APPROVED PLANS AND PERMIT AS VERIFIED BY THE CITY OF BURNET, THE PCSO SHALL SUBMIT A NOTICE OF TERMINATION (NOT) TO TCEQ.

TRENCH EXCAVATION SAFETY PROTECTION:

- 1. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

- 1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS."
2. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI [§290.44(A)(1)].
3. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS [§290.44(A)(2)].
4. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY [§290.44(A)(3)].
5. ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR [§290.44(E)(4)(B)].
6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE [§290.44(A)(4)].
7. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES IS 0.25 PERCENT [§290.44(B)].
8. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT [§290.44(D)(1)].
9. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION [§290.44(F)(1)].
10. WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY OF WATER THE WATERLINE SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED [§290.44(F)(2)].
11. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS.
• THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

Q = LD*sqrt(P) / 148,000

WHERE:

- Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
• L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
• D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
• P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
• THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

L = SD*sqrt(P) / 148,000

WHERE:

- L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
• S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
• D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
• P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
12. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION, SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET §290.44(E)(1)-(4).
13. THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT [§290.44(E)(5)].
14. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION [§290.44(E)(6)].
15. SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE [§290.44(E)(7)].
16. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS [§290.44(E)(8)].
17. THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT. THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER [§290.44(F)(3)].
18. DECHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C655-09 OR MOST RECENT.

THE EXISTING CONDITIONS SHOWN IN THESE PLANS, INCLUDING BOUNDARY, BUILDINGS, TREES, AND TOPOGRAPHY ARE BASED ON SURVEY INFORMATION PROVIDED BY:

CUPLIN AND ASSOCIATES LAND SURVEYORS AND PLANNERS
1500 OLLIE LANE
MARBLE FALLS, TEXAS 78654
(830) 693-8815
(325) 388-3300

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY K.C. ENGINEERING, INC. AT (830) 693-5635, CONCERNING ANY DISCREPANCIES.

THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT, THEREFORE THE SURVEYOR WILL NOT BE HELD RESPONSIBLE FOR ANYTHING THAT A TITLE COMMITMENT MAY DISCLOSE.

THE LOCATION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON ARE TAKEN FROM SOURCE INFORMATION FROM PLANS AND MARKINGS WITH THE COMBINED OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOT BE RESPONSIBLE OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT, ENGINEER AND ARCHITECT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.

THE LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

LEGEND

GAS UTILITY LINE AND SYMBOLS

- GAS—GAS— EXISTING GAS LINE
MARK/FLAG
HAND HOLE
MANHOLE
WELL
SIGN
BOX
METER
TANK
VALVE

ELECTRIC UTILITY LINES AND SYMBOLS

- OE—OE— EXISTING OVERHEAD ELECTRIC
—UE—UE— EXISTING UNDERGROUND ELECTRIC
FLOODLIGHT
GUY ON POLE
TRANSFORMER
MARK/FLAG
HAND HOLE
MANHOLE
BOX
LITE
METER
SWITCH
VAULT
SIGN
POLE

CATV UTILITY LINES AND SYMBOLS

- OF—OF— EXISTING OVERHEAD CATV
—UF—UF— EXISTING UNDERGROUND CATV
HAND HOLE
MARK/FLAG
MANHOLE
BOX
SIGN

CABLE UTILITY LINES AND SYMBOLS

- OC—OC— EXISTING OVERHEAD CABLE
—UC—UC— EXISTING UNDERGROUND CABLE
HAND HOLE
MARK/FLAG
MANHOLE
SIGN
VAULT
BOX

TELEPHONE UTILITY LINES AND SYMBOLS

- OT—OT— EXISTING OVERHEAD TELEPHONE
—UT—UT— EXISTING UNDERGROUND TELEPHONE
HAND HOLE
MARK/FLAG
MANHOLE
SIGN
VAULT
BOX

STORM DRAIN UTILITY LINES AND SYMBOLS

- SD—SD— PROPOSED STORM DRAIN
—E/SD—E/SD— EXISTING STORM DRAIN
MANHOLE
MARK/FLAG
HANDHOLE
METER
BOX
INLET
VAULT

WASTEWATER UTILITY LINES AND SYMBOLS

- WW—WW— PROPOSED WASTEWATER
—E/WW—E/WW— EXISTING WASTEWATER
MARK/FLAG
SEPTIC TANK
VAULT
CLEANOUT
HANDHOLE
MANHOLE
LIFT STATION
BOX
METER

WATER UTILITY LINES AND SYMBOLS

- W—W—W— PROPOSED WATER
—E/W—E/W— EXISTING WATER
MARK/FLAG
AIR RELEASE
HANDHOLE
FIRE HYDRANT
WELL
MANHOLE
SHUTOFF
FIRE CONNECTION
SIGN
VALVE
TANK
METER
VAULT
BOX

MISC LINES AND SYMBOLS

- STONE FENCE
WIRE FENCE
WOOD FENCE
CHAINLINK FENCE
PROPOSED SILT FENCE
PROPOSED LIMITS OF CONSTRUCTION
EXISTING CONTOURS
PROPOSED CONTOURS
TREE PROTECTION

K.C. ENGINEERING, INC. CONSULTING ENGINEERS

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OFFICE: 830-693-5635 FAX: 830-693-9664
Email: info@kceengineering.com
REGISTRATION # F-000977



GENERAL NOTES

OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS



D. Martin Stary

11/20/2019

Table with columns: Job No., Scale, Date, Rev., Remarks, Date



Know what's below. Call before you dig.

SHEET 2.0

GENERAL SITE DATA

- PROJECT LIMITS:** REFER TO EROSION CONTROL PLAN FOR LIMITS OF CONSTRUCTION
 APPROXIMATE SITE ENTRANCE/BEGINNING LOCATION: LATITUDE (N) : 30° 43' 42.127" LONGITUDE (W) : 98° 14' 45.235"
 APPROXIMATE END LOCATION (LINEAR PROJECTS): LATITUDE (N) : 30° 44' 39.239" LONGITUDE (W) : 98° 15' 7.46"
- PROJECT SITE MAPS:**
 - PROJECT LOCATION MAP: REFER TO TITLE SHEET
 - DRAINAGE PATTERNS: REFER TO EROSION CONTROL PLAN
 - AREAS WHERE SOIL DISTURBANCE WILL OCCUR: REFER TO EROSION CONTROL PLAN
 - SLOPES ANTICIPATED AFTER MAJOR GRADING OR AREAS OF SOIL DISTURBANCE: REFER TO EROSION CONTROL PLAN
 - LOCATION OF EROSION AND SEDIMENT CONTROLS AND WHERE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ARE EXPECTED TO BE USED: REFER TO EROSION CONTROL PLAN
 - LOCATION OF CONSTRUCTION SUPPORT ACTIVITIES: TO BE PROVIDED BY THE PRIMARY OPERATOR
 - SURFACE WATERS AND DISCHARGE LOCATIONS: REFER TO THIS SHEET AND/OR EROSION CONTROL PLAN
 - LOCATIONS OF STORMWATER DISCHARGES DIRECTLY TO A SURFACE WATER BODY OR A MS4: REFER TO THIS SHEET AND/OR EROSION CONTROL PLAN
 - VEHICLE WASH AREAS: TO BE PROVIDED BY THE PRIMARY OPERATOR
 - DESIGNATED POINTS WHERE VEHICLES WILL EXIT ONTO PAVED ROADS: REFER TO EROSION CONTROL PLAN
 - STORMWATER DISCHARGE LOCATIONS: REFER TO EROSION CONTROL PLAN
 - LOCATIONS OF POLLUTANT GENERATING ACTIVITIES: REFER TO EROSION CONTROL PLAN (POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES WILL BE PROVIDED BY THE PRIMARY OPERATOR)
 - PROJECT SPECIFIC LOCATION(S) (PSL): TO BE SPECIFIED IN THE FIELD DURING CONSTRUCTION AND LOCATED IN THE PROJECT SW3P FILE. REFERENCE ITEM NO. 10 BELOW
- PROJECT DESCRIPTION:**
 REFER TO TITLE SHEET
- MAJOR SOIL DISTURBING ACTIVITIES:**
 GRADING, DRAINAGE, AND/OR UTILITY IMPROVEMENTS, INCLUDING DUMPING, PLACING AND STOCKPILING OF MATERIALS
- EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:**
SOIL DATA
 HENSLEY AND ECKRANT-ROCK
- TOTAL PROJECT AREA:**
2.90 ACRES
- TOTAL AREA TO BE DISTURBED:**
2.90 ACRES (THE CONTRACTOR SHALL REVISE THIS AREA TO INCLUDE ADDITIONAL AREAS DISTURBED WHERE CONSTRUCTION SUPPORT ACTIVITIES OCCUR)
- WEIGHTED RUNOFF COEFFICIENT:**
 BEFORE CONSTRUCTION: 0.45
 AFTER CONSTRUCTION: 0.45
- NAME OF RECEIVING WATERS:**
 LAKE/RIVER/TRIBUTARY: HAMILTON CREEK
 SEGMENT ID: 1404A
 IMPAIRED: NO
 LOCATIONS WHERE STORMWATER DISCHARGES DIRECTLY INTO SURFACE WATERS OR MS4: REFER TO EROSION CONTROL PLAN
- PROJECT SW3P FILE:**
 FOR PROJECTS DISTURBING ONE ACRE OR MORE, THE CONTRACTOR WILL MAINTAIN A SWP3 FILE WITH ALL PERTINENT ENVIRONMENTAL DOCUMENTS AND CORRESPONDENCE ON-SITE AND PROVIDE COPIES OF ALL PERTINENT ENVIRONMENTAL DOCUMENTS AND CORRESPONDENCE TO CITY OF BURNET.
- POTENTIAL POLLUTANTS AND SOURCES:**
 POTENTIAL POLLUTANTS ARE SOIL FROM GRADING OPERATIONS, PLACEMENT OF DRAINAGE AND UTILITY IMPROVEMENTS, DUMPING AND PLACEMENT OPERATIONS FOR EARTHWORK AND BEDDING, AND SOIL FROM PLACEMENT OF TOPSOIL AND SEEDING. THE CONTRACTOR SHALL PROVIDE A LIST OF OTHER POTENTIAL POLLUTANTS AND THEIR SOURCES THAT COULD BE PRESENT BUT ARE NOT LISTED HERE. THE CONTROLS FOR THESE POLLUTANTS ARE LISTED HEREIN. THE CONTRACTOR SHALL PROVIDE A LIST OF CONSTRUCTION AND WASTE MATERIALS EXPECTED TO BE STORED ON-SITE AND A DESCRIPTION OF CONTROLS TO MINIMIZE POLLUTANTS FROM THESE MATERIALS.
- DESCRIPTION OF CONSTRUCTION ACTIVITIES:**
 REFER TO THE TITLE SHEET AND/OR EROSION CONTROL PLAN

EROSION AND SEDIMENT CONTROLS

- SOIL STABILIZATION PRACTICES:**
 (SELECT T = TEMPORARY OR P = PERMANENT, AS APPLICABLE)

<u>T</u> TEMPORARY VEGETATION	_____ FLEXIBLE CHANNEL LINER
_____ MULCHING (HAY OR STRAW)	_____ RIGID CHANNEL LINER
_____ BUFFER ZONES	_____ EROSION CONTROL MATTING
_____ PLANTING	_____ SOIL RETENTION BLANKET
<u>P</u> SEEDING	_____ COMPOST MANUFACTURED TOPSOIL
_____ SODDING	_____ VERTICAL TRACKING
_____ PRESERVATION OF NATURAL RESOURCES	_____ * OTHER

* DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY AND WILL RESUME FOR 14 CALENDAR DAYS SHALL BE STABILIZED IMMEDIATELY. DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY HAS CEASED PERMANENTLY SHALL BE STABILIZED IMMEDIATELY. IMMEDIATELY IS DEFINED AS "AS SOON AS PRACTICABLE BUT NO LATER THAN THE END OF THE NEXT WORK DAY FOLLOWING THE DAY THE EARTH-DISTURBING ACTIVITIES HAVE CEASED".
 - STRUCTURAL PRACTICES:**
 (SELECT T = TEMPORARY OR P = PERMANENT, AS APPLICABLE)

<u>T</u> SILT FENCES	_____ TIMBER MATTING AT CONSTRUCTION EXIT
_____ EROSION CONTROL LOGS	_____ CHANNEL LINERS
_____ EROSION CONTROL COMPOST BERMS	_____ SEDIMENT TRAPS
_____ ROCK BERMS	_____ SEDIMENT BASINS
_____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES	_____ STORM INLET SEDIMENT TRAP
_____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES	_____ STONE OUTLET STRUCTURES
_____ DIVERSION DIKE AND SWALE COMBINATIONS	_____ CURBS AND GUTTERS
_____ PIPE SLOPE DRAINS	_____ STORM SEWERS
_____ PAVED FLUMES	_____ VELOCITY CONTROL DEVICES
<u>T</u> ROCK BEDDING AT CONSTRUCTION EXIT	_____ SLOPE TEXTURING
	_____ * OTHER:
- NOTES:
- THE TOPS OF BMPS SHOULD NOT BE HIGHER THAN THE ROADWAY ELEVATION SO AS NOT TO FLOOD THE ROADWAY, UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE OWNER.
- EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- CONTROLS MUST BE DEVELOPED TO MINIMIZE THE OFFSITE TRANSPORT OF LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION MATERIALS.
- PRESERVE EXISTING VEGETATION TO THE GREATEST EXTENT POSSIBLE.
- STORM WATER MANAGEMENT:**
 - STORM WATER DRAINAGE WILL BE MAINTAINED IN ITS EXISTING CONDITION.
 - NON-PAVED AREAS AND DITCHES SHALL BE STABILIZED WITH A PERMANENT VEGETATIVE COVER.
 - MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST. USE ROCK BEDDING AT CONSTRUCTION EXITS TO CONTROL OFF-SITE VEHICLE TRACKING AND USE SPRINKLING TO CONTROL DUST.
 - STORM WATER MANAGEMENT ACTIVITIES: (SEQUENCE OF CONSTRUCTION)**

PHASE 1: INSTALL SILT FENCE AND ROCK FILTER DAMS
 PERFORM ROUTINE INSPECTIONS OF TEMPORARY EROSION CONTROL DEVICES
 REPAIR AS REQUIRED

PHASE 2: PLACE TOPSOIL, SEEDING, AND VEGETATIVE WATERING
 PERFORM ROUTINE INSPECTIONS OF TEMPORARY EROSION CONTROL DEVICES
 REPAIR AS REQUIRED

PHASE 3: AFTER 70% PERMANENT VEGETATIVE COVER, REMOVE TEMPORARY EROSION CONTROL DEVICES
 - NON-STORM WATER DISCHARGES:**
 FILTER NON-STORM WATER DISCHARGES, OR HOLD IN RETENTION BASINS, BEFORE BEING ALLOWED TO MIX WITH STORM WATER. THESE DISCHARGES CONSIST OF, BUT NOT LIMITED TO, NON-POLLUTED GROUND WATER, SPRING WATER, FOUNDATION OR FOOTING DRAIN WATER, WATER USED FOR DUST CONTROL OR PAVEMENT WASHING AND VEHICLE WASHWATER CONTAINING NO DETERGENTS.
 - DATES:**
 THE ACTIVITIES (SEE DESCRIPTION OF CONSTRUCTION ACTIVITIES) ARE ANTICIPATED TO COMMENCE IN DECEMBER 2019. IT IS ANTICIPATED THAT THE ACTIVITIES WILL CEASE IN MARCH 2020. ALTHOUGH THESE DATES ARE SUBJECT TO CHANGE, THE OVERALL TIME PERIOD FOR COMPLETION OF THE PROJECT IS REASONABLE. THE ACTIVITIES SHOULD OCCUR IN THE SEQUENCE DESCRIBED.
 - RESPONSIBILITIES:**
 THE CONTRACTOR, AS PRIMARY OPERATOR, IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE AND PRIOR TO SUBMISSION OF A NOTICE OF TERMINATION (NOT).

OTHER REQUIREMENTS & PRACTICES

- MAINTENANCE:**
 MAINTAIN ALL EROSION AND SEDIMENT CONTROLS IN GOOD WORKING ORDER. PERFORM ANY NECESSARY CLEANING/REPAIRS/REPLACEMENTS AT THE EARLIEST POSSIBLE DATE PRIOR TO NEXT RAIN EVENT, BUT NO LATER THAN 7 CALENDAR DAYS. ENSURE THE SURROUNDING GROUND HAS DRIED SUFFICIENTLY TO PREVENT DAMAGE FROM EQUIPMENT. "TOO WET" IS THE ONLY REASON FOR NOT ADHERING TO TIME FRAMES DESCRIBED. WHEN CONSTRUCTION ACTIVITIES PERMANENTLY OR TEMPORARILY CEASE AND ARE NOT EXPECTED TO RESUME FOR 14 OR MORE DAYS ON A DISTURBED PORTION OF THE SITE, STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY.
- INSPECTION:**
 AN INSPECTION AND MAINTENANCE REPORT, SIGNED BY THE CITY AND THE CONTRACTOR, WILL BE FILED FOR EACH INSPECTION. REVISE/CLEAN/REPAIR/REPLACE EACH BMP CONTROL DEVICE IN ACCORDANCE WITH THE CURRENT FIELD INSPECTION AND MAINTENANCE REPORT AND ITEM 1 (MAINTENANCE) ABOVE.
- WASTE MATERIALS:**
 ON A DAILY BASIS, OR AS MAY BE DIRECTED BY THE OWNER, COLLECT ALL WASTE MATERIALS, TRASH AND DEBRIS FROM THE CONSTRUCTION SITE AND DEPOSIT INTO A METAL DUMPSTER HAVING A SECURE COVER AND WHICH MEETS ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REQUIREMENTS. EMPTY THE DUMPSTER AS REQUIRED BY REGULATION, OR AS MAY BE DIRECTED, AT A LOCAL APPROVED LANDFILL SITE. DO NOT BURY CONSTRUCTION WASTE ON THE CONSTRUCTION PROJECT SITE.
- HAZARDOUS WASTE & SPILL REPORTING:**
 AS A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS, SOLVENTS, FUELS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, AND CONCRETE CURING COMPOUNDS OR ADDITIVES. WHEN STORING HAZARDOUS MATERIAL ON THE PROJECT SITE, OR AT A PROJECT SPECIFIC LOCATION, TAKE ALL PRACTICABLE PRECAUTION TO PREVENT AND/OR CONTAIN ANY SPILLAGE OF THESE MATERIALS. IN THE EVENT OF A SPILL, CONTACT THE SPILL COORDINATOR IMMEDIATELY.
- SANITARY WASTE:**
 ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- CONSTRUCTION VEHICLE TRACKING:**
 ON A REGULAR BASIS, OR AS MAY BE DIRECTED, DAMPEN HAUL ROADS FOR DUST CONTROL AND STABILIZE CONSTRUCTION ENTRANCES/EXITS. PROVIDE FOR A MOTORIZED BROOM OR VACUUM TYPE SWEEPER TO BE AVAILABLE ON A DAILY BASIS, OR AS MAY BE DIRECTED, TO REMOVE SEDIMENT FROM PAVED ROADWAYS ABUTTING OR TRAVERSING THE PROJECT SITE.
- MANAGEMENT PRACTICES:**
 - CONSTRUCT DISPOSAL AREAS, STOCKPILES, HAUL ROADS AND PSL'S IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DO NOT LOCATE DISPOSAL AREAS IN ANY WETLAND, WATER BODY OR STREAMBED.
 - LOCATE CONSTRUCTION STAGING AREAS, VEHICLE MAINTENANCE AND PSL'S AREAS IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.
 - WHEN WORKING IN OR NEAR A WETLAND, INSTALL AND MAINTAIN OPERATING SOIL EROSION AND SEDIMENT CONTROLS AT ALL TIMES DURING CONSTRUCTION AND ISOLATE THE WORK FROM THE WETLAND.
 - CLEAR ALL WATERWAYS AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.
 - PROCEDURES AND/OR PRACTICES SHOULD BE TAKEN TO CONTROL DUST.
 - SEDIMENT TO BE REMOVED FROM ROADWAYS DAILY OR WHEN WORK BEGINS AFTER WEATHER EVENTS IF CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO WEATHER EVENT.
 - THE CONTRACTOR WILL BE REQUIRED TO CONTAIN WASH WATER FROM CONCRETE TRUCKS IN A MANNER THAT WILL PREVENT SAME FROM ENTERING ANY WATERWAY.
 - THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL SUBCONTRACTORS ARE AWARE AND COMPLY WITH ALL COMPONENTS OF THE TEMPORARY EROSION CONTROL PLANS.
 - THE CONTRACTOR SHALL BE CONSIDERED THE PRIMARY OPERATOR AND HAVE DAY-TO-DAY OPERATIONAL CONTROL OVER THE ACTIVITIES AND BE RESPONSIBLE FOR THE IMPLEMENTATION OF BMPS AND BE RESPONSIBLE FOR THE CONSTRUCTION PLANS AND SPECIFICATIONS (INCLUDING THE AUTHORITY TO MAKE MODIFICATIONS TO THE SPECIFICATIONS) TO THE EXTENT NECESSARY TO COMPLY WITH THE TCEQ TPDES GENERAL PERMIT TXR150000. THIS AUTHORIZATION APPLIES TO THE LIMITS OF THIS PROJECT ONLY (AS DEFINED HEREIN).
 - THE CONTRACTOR SHALL POST THE TCEQ SITE NOTICE AT A CONSPICUOUS LOCATION AND IT MUST CONTAIN, AT A MINIMUM: 1) THE SITE-SPECIFIC TPDES AUTHORIZATION NUMBER; 2) THE OPERATOR NAME, CONTACT NAME, AND CONTACT PHONE NUMBER; 3) A BRIEF DESCRIPTION OF THE PROJECT; AND 4) THE LOCATION OF THE SWP3.
 - THE CONTRACTOR SHALL ATTACH A COPY OF THE TCEQ TPDES GENERAL PERMIT NO. TXR150000 TO THIS PLAN.
 - THE CONTRACTOR SHALL MAINTAIN A PERMANENT RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN THE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON ANY PORTION OF THE SITE, AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
 - THE CONTRACTOR SHALL REVISE OR UPDATE THE SWP3 WITHIN SEVEN DAYS OF ANY SUBSTANTIAL CHANGE THAT MAY HAVE AN EFFECT ON DISCHARGE OR WHEN SITE INSPECTIONS INDICATE THE EXISTING SWP3 IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN DISCHARGES.
 - THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL PROVISIONS OF THE TPDES GENERAL PERMIT TXR150000.

STORM WATER POLLUTION PREVENTION PLAN (SW3P)



Know what's below.
 Call before you dig.

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 CONSULTING ENGINEERS
 705 HWY. 281 NORTH, PLAZA I, SUITE 103
 MARBLE FALLS, TEXAS 78654
 OFFICE: 830-693-5635 FAX: 830-693-9664
 Email: info@kceengineering.com
 REGISTRATION # F-000977



SWPPP SUMMARY
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS



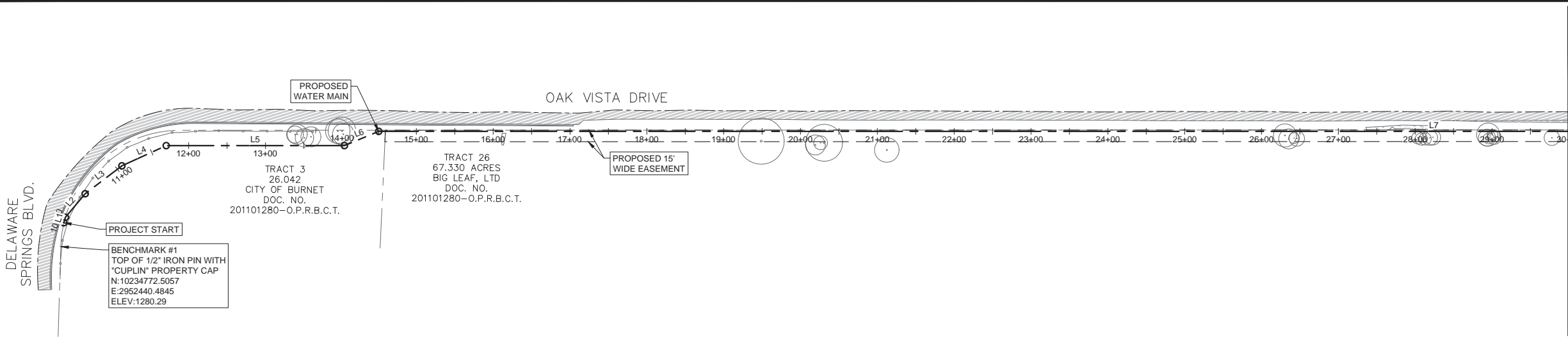
11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

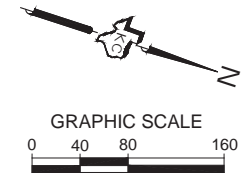
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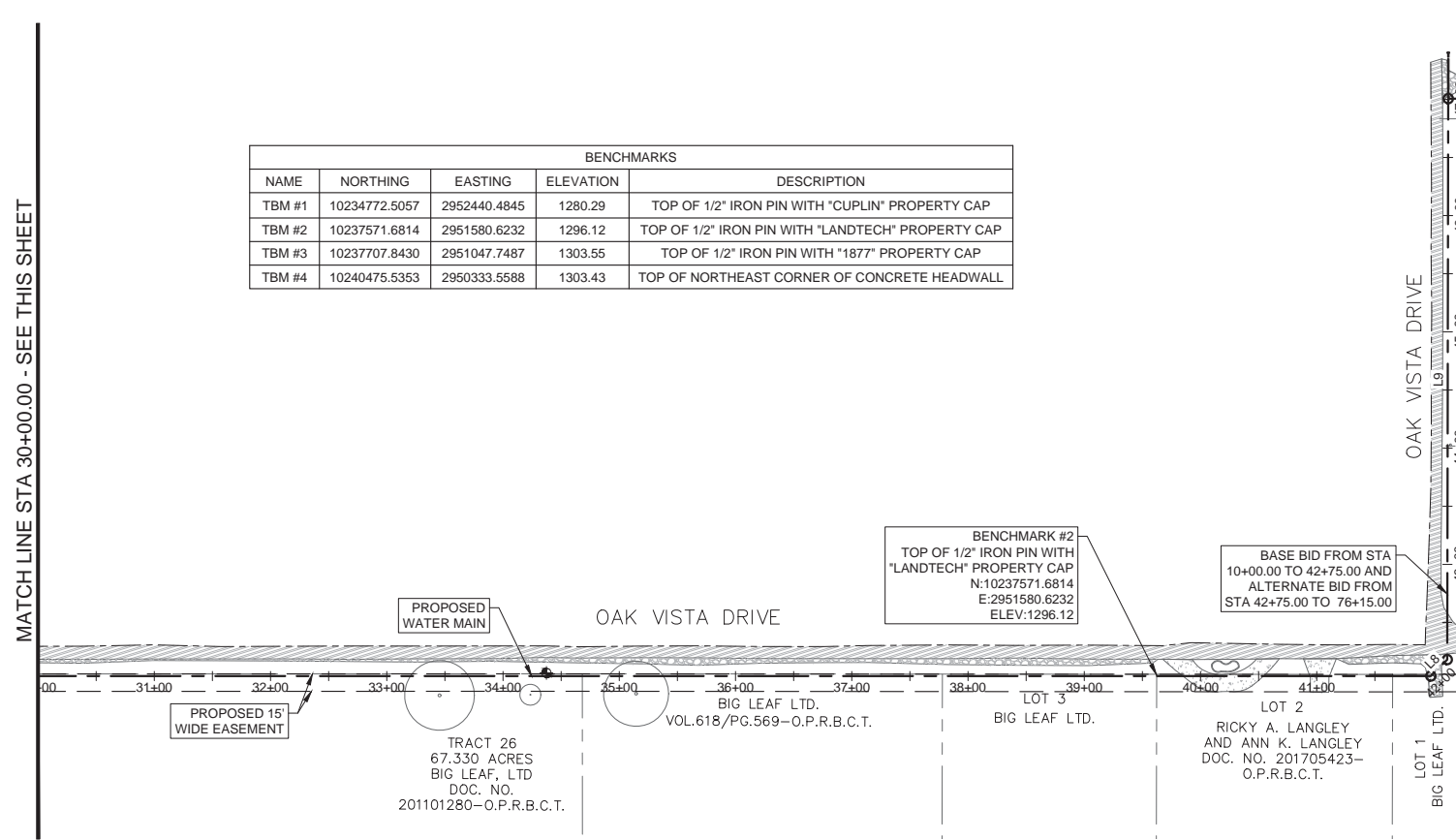
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MATCH LINE STA 30+00.00 - SEE THIS SHEET

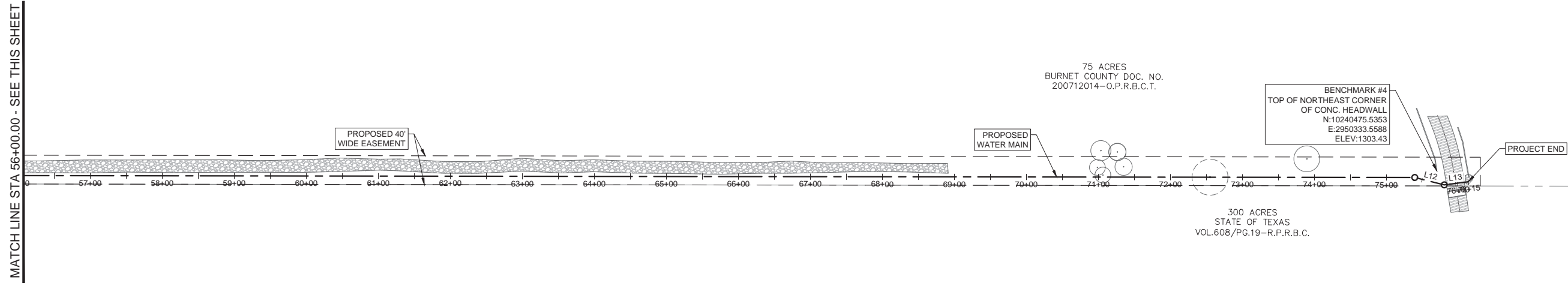


BENCHMARKS				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM #1	10234772.5057	2952440.4845	1280.29	TOP OF 1/2" IRON PIN WITH "CUPLIN" PROPERTY CAP
TBM #2	10237571.6814	2951580.6232	1296.12	TOP OF 1/2" IRON PIN WITH "LANDTECH" PROPERTY CAP
TBM #3	10237707.8430	2951047.7487	1303.55	TOP OF 1/2" IRON PIN WITH "1877" PROPERTY CAP
TBM #4	10240475.5353	2950333.5588	1303.43	TOP OF NORTHEAST CORNER OF CONCRETE HEADWALL



WATER LINE ALIGNMENT TABLE								
NUMBER	START STATION	START NORTHING EASTING	BEARING	RADIUS	CENTER POINT	LENGTH	END STATION	END NORTHING EASTING
L1	10+00.00	N 10234768.30 E 2952409.49	N88° 04' 50"W			7.35	10+07.35	N 10234768.54 E 2952402.15
L2	10+07.35	N 10234768.54 E 2952402.15	N64° 05' 23"W			40.00	10+47.35	N 10234786.02 E 2952366.17
L3	10+47.35	N 10234786.02 E 2952366.17	N51° 20' 23"W			60.00	11+07.35	N 10234823.50 E 2952319.32
L4	11+07.35	N 10234823.50 E 2952319.32	N38° 35' 23"W			63.42	11+70.77	N 10234873.07 E 2952279.76
L5	11+70.77	N 10234873.07 E 2952279.76	N14° 07' 51"W			231.94	14+02.71	N 10235097.99 E 2952223.13
L6	14+02.71	N 10235097.99 E 2952223.13	N36° 37' 51"W			48.34	14+51.04	N 10235136.78 E 2952194.29
L7	14+51.04	N 10235136.78 E 2952194.29	N14° 07' 08"W			2747.06	41+98.10	N 10237800.86 E 2951524.19
L8	41+98.10	N 10237800.86 E 2951524.19	N59° 07' 05"W			20.00	42+18.10	N 10237811.12 E 2951507.03
L9	42+18.10	N 10237811.12 E 2951507.03	S75° 58' 54"W			482.50	47+00.60	N 10237694.24 E 2951038.90
L12	75+39.24	N 10240448.06 E 2950350.15	N0° 02' 57"W			42.29	75+81.52	N 10240490.34 E 2950350.12
L13	75+81.52	N 10240490.34 E 2950350.12	N21° 32' 57"W			33.66	76+15.19	N 10240521.66 E 2950337.75

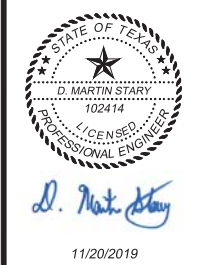
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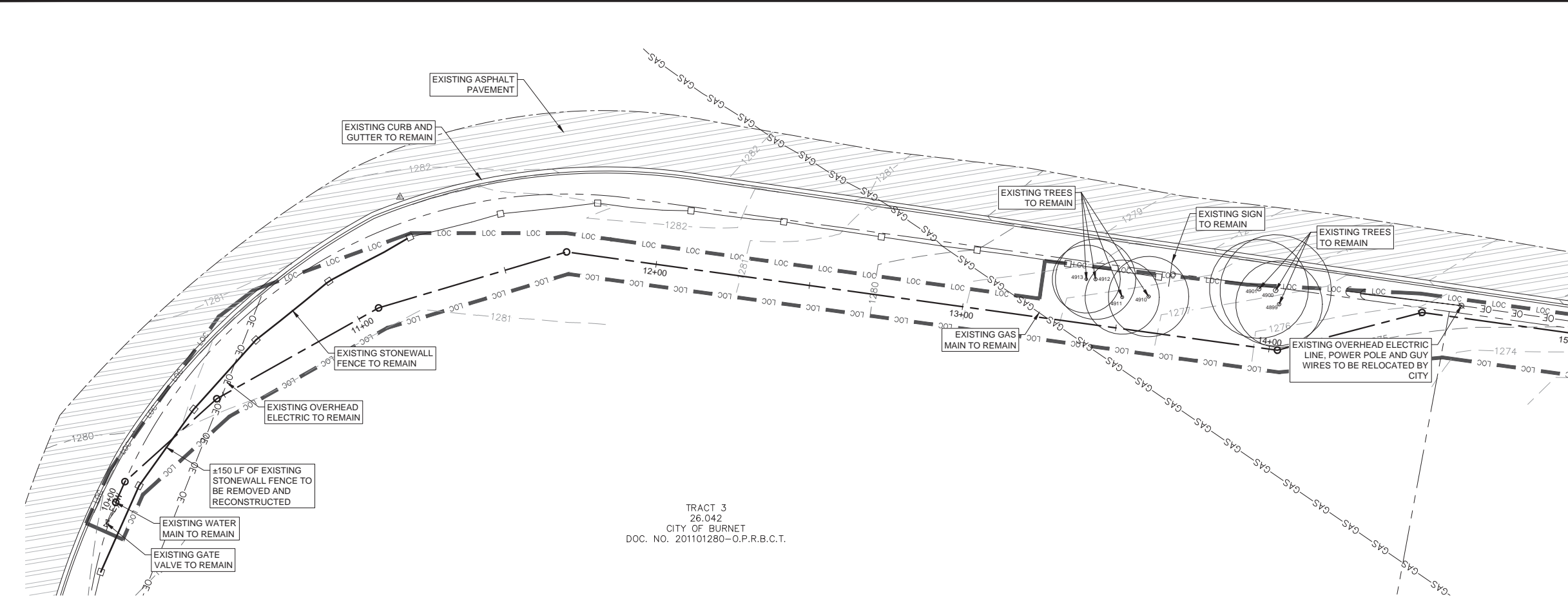
CONSTRUCTION CONTROL
 PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



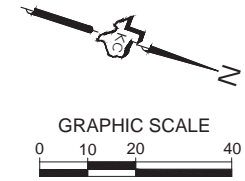
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Remarks	

SHEET
 3.0

Date: Nov 20, 2019, 1:36pm User ID: nathan.fuller
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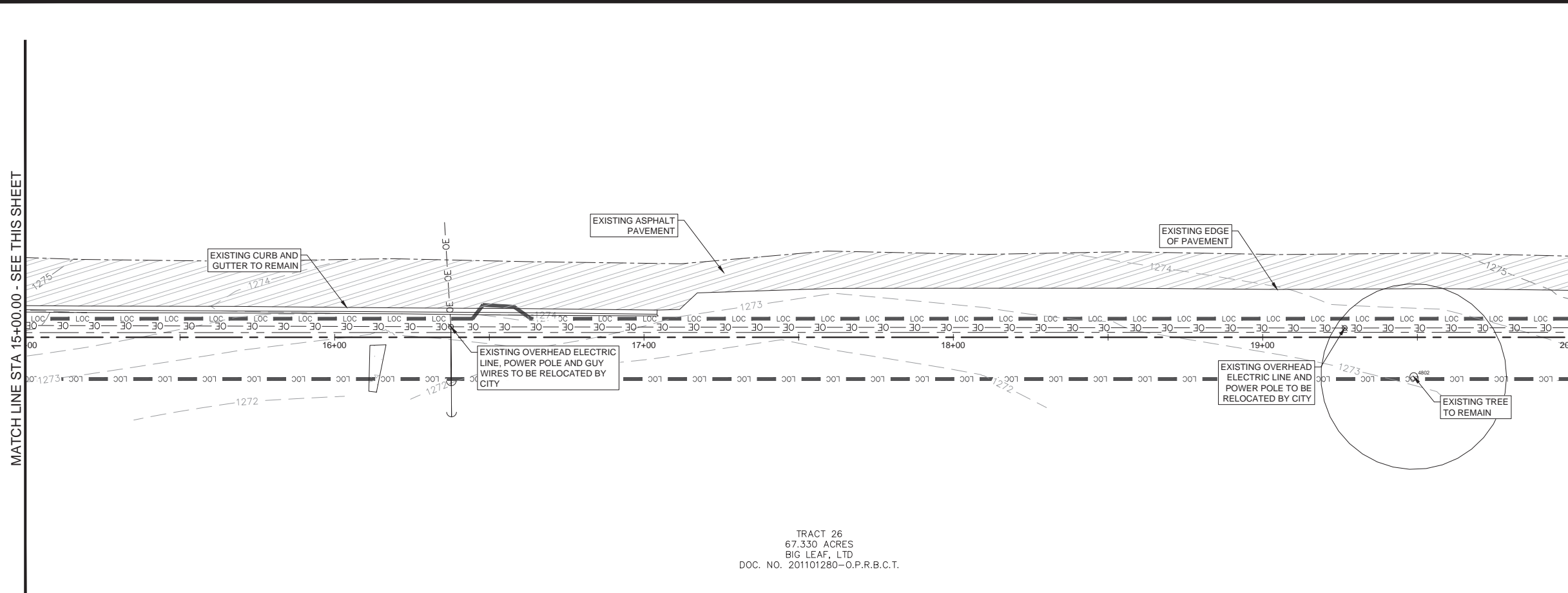
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 CITY OF BURNET
 DOC. NO. 201101280-O.P.R.B.C.T.



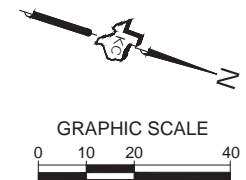
DEMOLITION NOTES:

1. ANY TEMPORARY SPOILS STOCKPILE MUST BE LOCATED WITHIN THE PROJECT SITE AND OUTSIDE OF DESIGNATED FLOODWAY AND FLOODPLAIN AREAS. ALL EXCESS MATERIAL WILL BE DISPOSED OF OFF SITE. CONTRACTOR SHALL NOT DISPOSE OF SURPLUS MATERIAL FROM THE SITE WITHOUT NOTIFYING THE OWNER, ENGINEER, AND CITY INSPECTOR 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION.
2. ALL BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ARE GENERALLY LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.
3. ALL EXISTING PAVEMENT SHALL BE SAW CUT IN A CLEAN MANNER TO PROVIDE A CONSTRUCTION JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT.
4. REMOVAL/ADJUSTMENT OF ANY CONFLICTS WITH EXISTING TELEPHONE, GAS, CABLE, AND ELECTRIC SHOULD BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY. NO CONSTRUCTION SHOULD BEGIN ON-SITE UNTIL A CONFERENCE IS HELD BETWEEN THE CITY, VARIOUS UTILITY REPRESENTATIVES AND CONTRACTOR REGARDING DEMOLITION AND UTILITY CONFLICTS.

MATCH LINE STA 15+00.00 - SEE THIS SHEET



TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.



DEMOLITION NOTES CONTINUED:

5. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ANY AND ALL EXISTING BUILDINGS/STRUCTURES ON SITE AND UTILITY RELOCATION AND DISCONNECTION WORK. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING SALVAGE, RELOCATION AND/OR DISPOSAL OF ALL EXISTING BUILDINGS AND UTILITIES. DEMOLITION CONTRACTOR TO CONTACT LOCAL UTILITY AUTHORITY TO DISCONNECT, RELOCATE AND/OR CAP EXISTING UTILITIES INVOLVED IN DEMOLITION.
6. CONTRACTOR TO REMOVE ALL CONCRETE, PAVEMENT, CONCRETE CURBS, AND LANDSCAPE FOR THE ENTIRE SITE, WHERE SHOWN BY ENGINEER. CONTRACTOR SHALL ALSO REMOVE ALL FOOTINGS, FOUNDATIONS, AND UTILITY LINES SERVICING EXISTING BUILDING AND REMOVED BUILDING STRUCTURES WHERE SHOWN BY ENGINEER.
7. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND IDENTIFYING ANY ADDITIONAL ITEMS THAT ARE TO BE DEMOLISHED, REMOVED, OR RELOCATED AND TO INCLUDE THESE ITEMS AS PART OF THEIR BID.
8. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
9. REFER TO SHEET 4.6 FOR TREE LIST.

MATCH LINE STA 20+00.00 - SEE SHEET 4.1

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EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

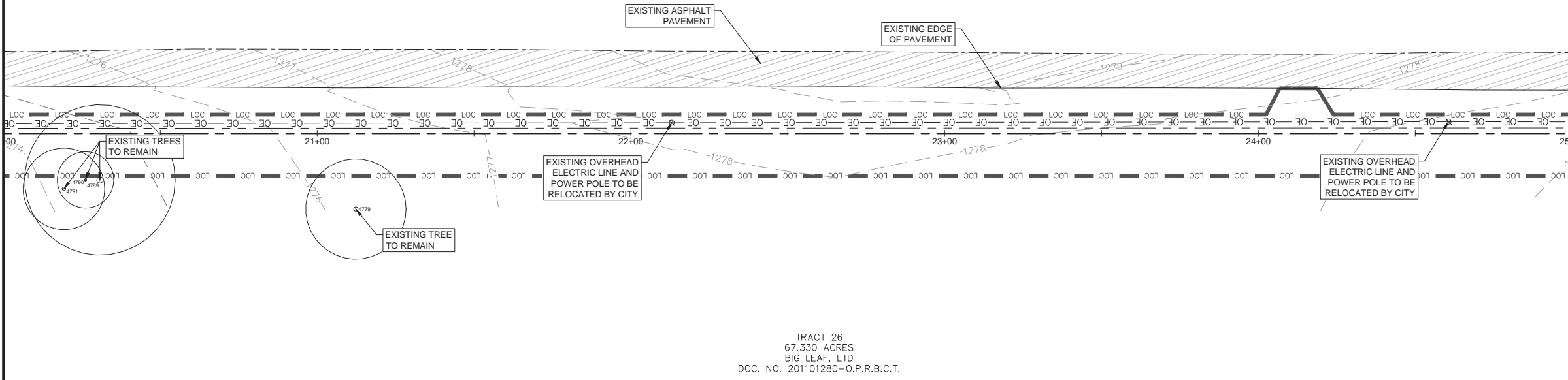
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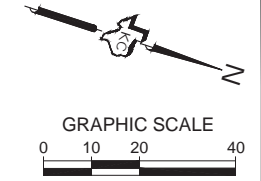
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MATCH LINE STA 25+00.00 - SEE THIS SHEET



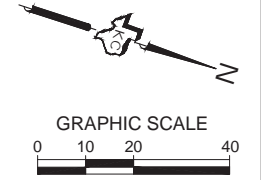
TRACT 26
 67.330 ACRES
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 DOC. NO. 201101280-O.P.R.B.C.T.



DEMOLITION NOTES:

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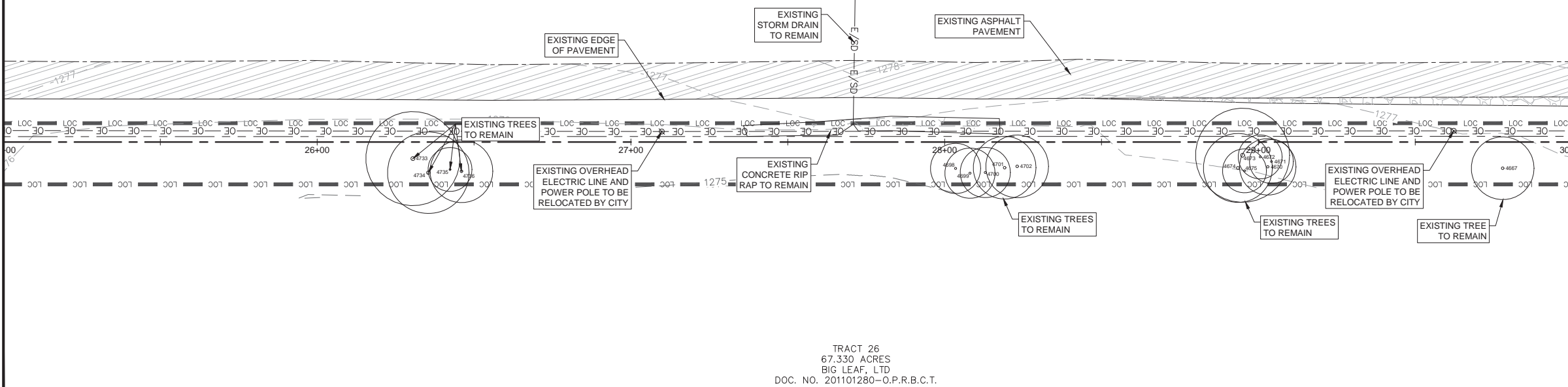
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DEMOLITION NOTES CONTINUED:

5. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ANY AND ALL EXISTING BUILDINGS/STRUCTURES ON SITE AND UTILITY RELOCATION AND DISCONNECTION WORK. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING SALVAGE, RELOCATION AND/OR DISPOSAL OF ALL EXISTING BUILDINGS AND UTILITIES. DEMOLITION CONTRACTOR TO CONTACT LOCAL UTILITY AUTHORITY TO DISCONNECT, RELOCATE AND/OR CAP EXISTING UTILITIES INVOLVED IN DEMOLITION.
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8. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
9. REFER TO SHEET 4.6 FOR TREE LIST.

MATCH LINE STA 30+00.00 - SEE SHEET 4.2



TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

K.C. ENGINEERING, INC.
 CONSULTING ENGINEERS
 705 HWY. 281 NORTH, PLAZA I, SUITE 103
 MARBLE FALLS, TEXAS 78654
 OFFICE: 830-693-5635 FAX: 830-693-9664
 Email: info@kcengineering.com
 REGISTRATION # F-000977



EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

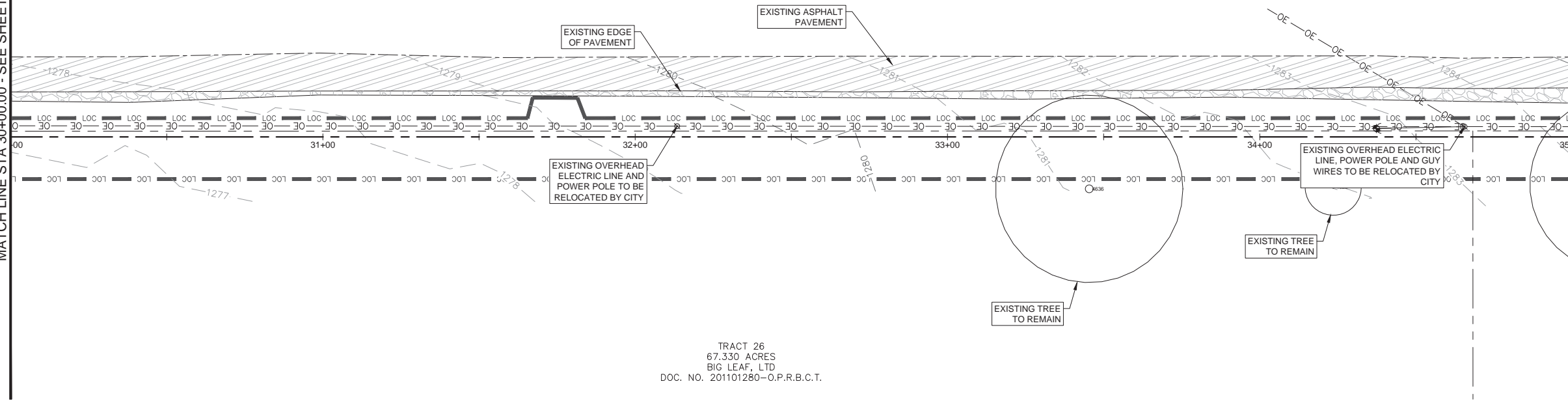
11/20/2019

Job No.	18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:		Checked By: DMS	Drawn By: NTF
Rev. No.		Date	Remarks

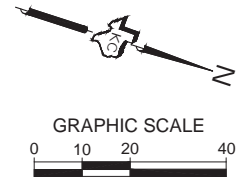
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MATCH LINE STA 30+00.00 - SEE SHEET 4.1

MATCH LINE STA 35+00.00 - SEE THIS SHEET



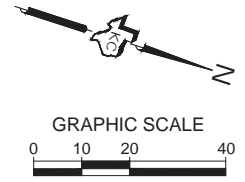
TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
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DEMOLITION NOTES:

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MATCH LINE STA 35+00.00 - SEE THIS SHEET



DEMOLITION NOTES CONTINUED:

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8. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
9. REFER TO SHEET 4.6 FOR TREE LIST.

MATCH LINE STA 40+00.00 - SEE SHEET 4.3



BIG LEAF LTD.
 VOL.618/P.G.569-O.P.R.B.C.T.

LOT 3
 BIG LEAF LTD.

K.C. ENGINEERING, INC.
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 REGISTRATION # F-000977



EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

11/20/2019

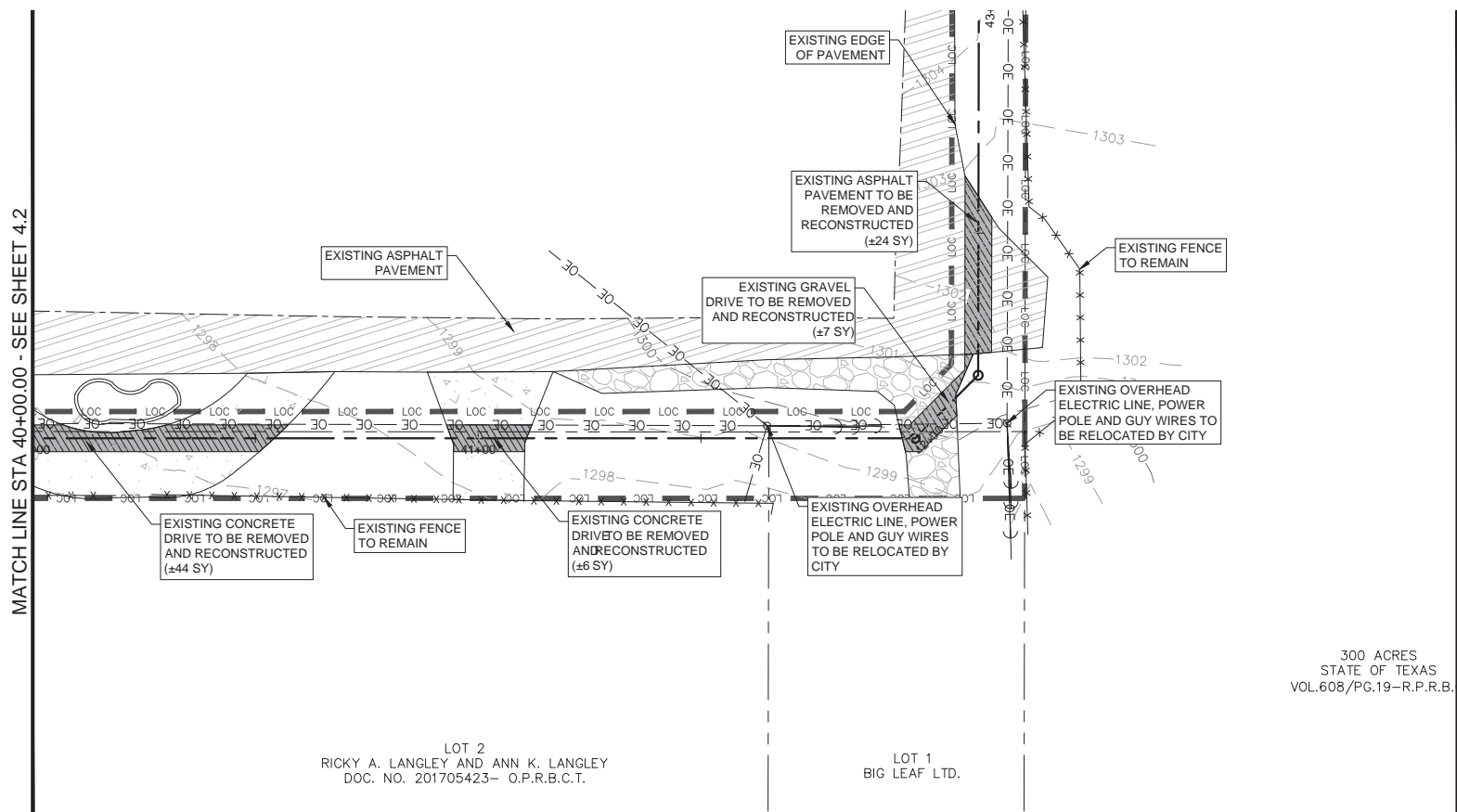
D. Martin Stary

Job No.	18-148
Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS
Rev. No.	Drawn By: NTF
	Date
	Remarks

Date: Nov 20, 2019, 1:39pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\4.0 EXISTING CONDITIONS & DEMO PLAN.dwg

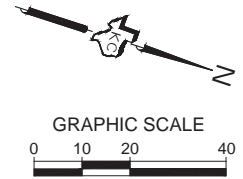
MATCH LINE STA 40+00.00 - SEE SHEET 4.2

MATCH LINE STA 43+00.00 - SEE THIS SHEET



300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

MATCHLINE STA 43+00.00 - SEE THIS SHEET



DEMOLITION NOTES:

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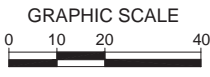
EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



D. Martin Stary
 11/20/2019

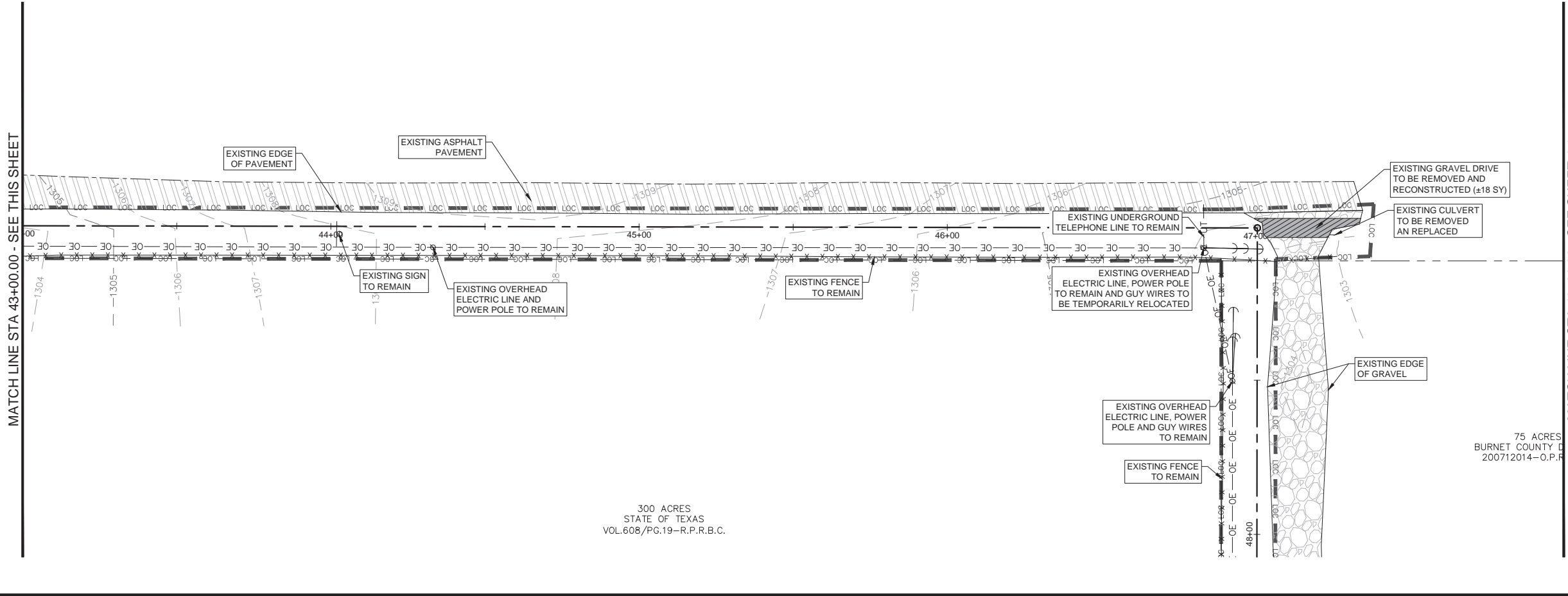
DEMOLITION NOTES CONTINUED:

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9. REFER TO SHEET 4.6 FOR TREE LIST.



75 ACRES
 BURNET COUNTY TEXAS
 200712014-0.P.R.B.C.

MATCH LINE STA 46+00.00 - SEE SHEET 4.4



300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:				
Rev. No.				
				Remarks

Date: Nov 20, 2019, 1:39pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\4.0 EXISTING CONDITIONS & DEMO PLAN.dwg

MATCH LINE STA 48+00.00 - SEE SHEET 4.3

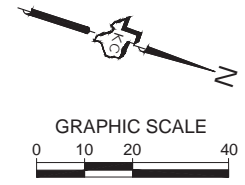
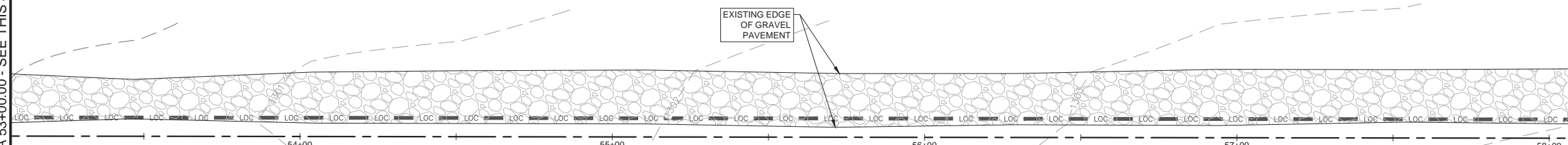
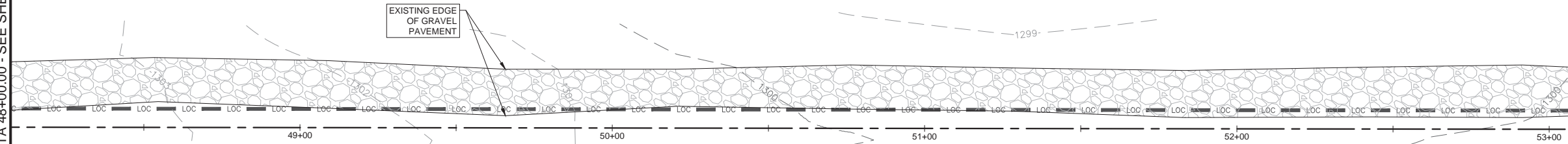
MATCH LINE STA 53+00.00 - SEE THIS SHEET

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

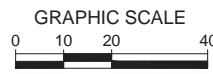
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 REGISTRATION # F-000977



EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



D. Martin Stary
 11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:				
Rev. No.				

Date: Nov 20, 2019, 1:39pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\4.0 EXISTING CONDITIONS & DEMO PLAN.dwg

MATCH LINE STA 58+00.00 - SEE SHEET 4.4

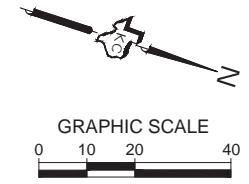
MATCH LINE STA 63+00.00 - SEE THIS SHEET

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

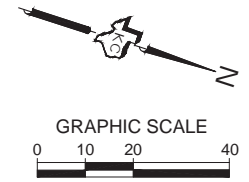
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EXISTING CONDITIONS &
 DEMO PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



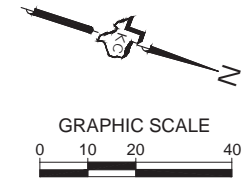
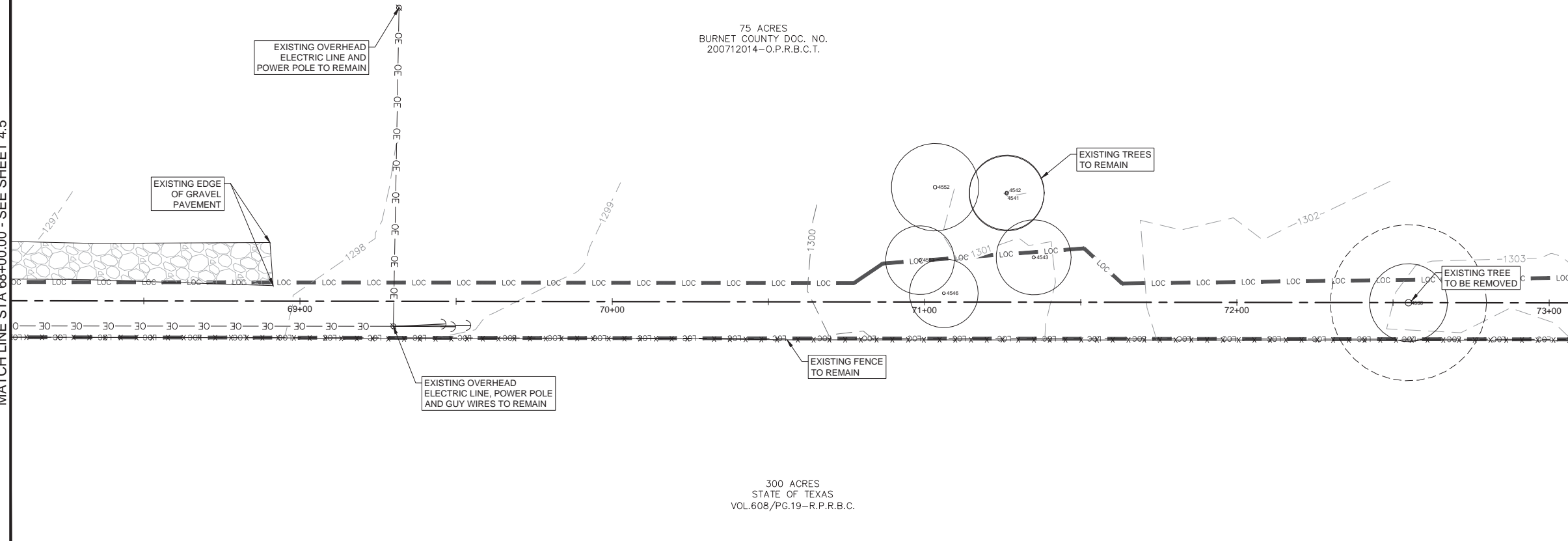
D. Martin Stary
 11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:	Rev. No.	Date	Remarks	

Date: Nov 20, 2019, 1:39pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\4.0 EXISTING CONDITIONS & DEMO PLAN.dwg

MATCH LINE STA 68+00.00 - SEE SHEET 4.5

MATCH LINE STA 73+00.00 - SEE THIS SHEET

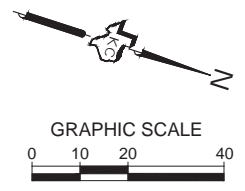
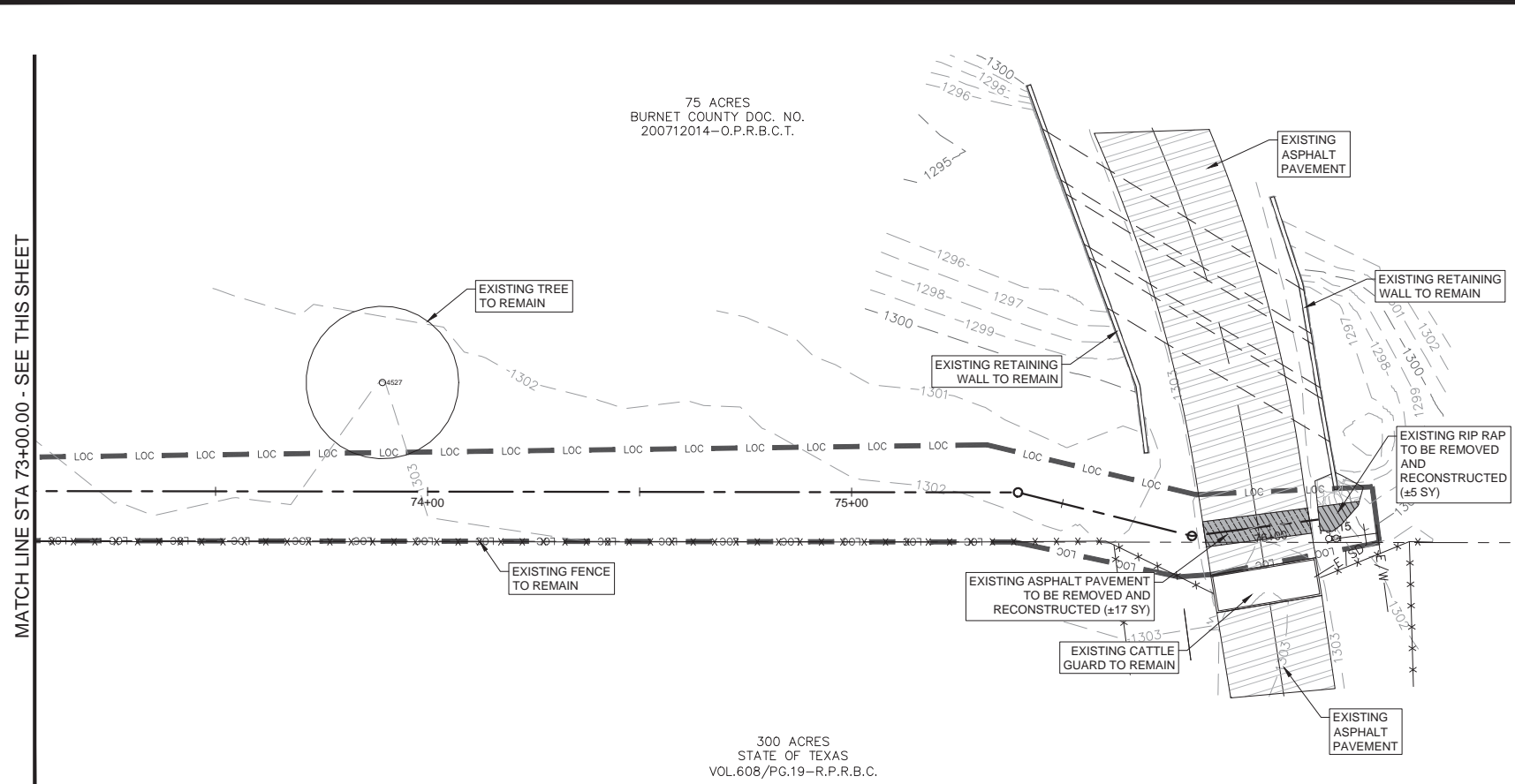


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 REGISTRATION # F-000977



EXISTING CONDITIONS & DEMO PLAN
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



TREES TO REMAIN

TREE #	TYPE	DIA
4019	LIVE (PLATEAU) OAK	28.00
4527	LIVE (PLATEAU) OAK	18.00
4541	LIVE (PLATEAU) OAK	12.00
4542	LIVE (PLATEAU) OAK	12.00
4543	LIVE (PLATEAU) OAK	12.00
4546	LIVE (PLATEAU) OAK	11.00
4552	LIVE (PLATEAU) OAK	14.00
4553	LIVE (PLATEAU) OAK	11.00
4625	LIVE (PLATEAU) OAK	9.00
4636	LIVE (PLATEAU) OAK	30.00
4667	LIVE (PLATEAU) OAK	10.00
4670	LIVE (PLATEAU) OAK	9.00
4671	LIVE (PLATEAU) OAK	7.00
4672	LIVE (PLATEAU) OAK	7.00
4673	LIVE (PLATEAU) OAK	15.00
4674	LIVE (PLATEAU) OAK	11.00
4675	LIVE (PLATEAU) OAK	7.00
4698	LIVE (PLATEAU) OAK	8.00
4699	LIVE (PLATEAU) OAK	8.00
4700	LIVE (PLATEAU) OAK	8.00

TREES TO REMAIN

TREE #	TYPE	DIA
4701	LIVE (PLATEAU) OAK	10.00
4702	LIVE (PLATEAU) OAK	10.00
4733	LIVE (PLATEAU) OAK	15.00
4734	LIVE (PLATEAU) OAK	13.00
4735	LIVE (PLATEAU) OAK	7.00
4736	LIVE (PLATEAU) OAK	10.00
4779	LIVE (PLATEAU) OAK	16.00
4789	LIVE (PLATEAU) OAK	24.00
4790	LIVE (PLATEAU) OAK	9.00
4791	LIVE (PLATEAU) OAK	13.00
4802	LIVE (PLATEAU) OAK	30.00
4899	LIVE (PLATEAU) OAK	14.00
4900	LIVE (PLATEAU) OAK	18.00
4901	LIVE (PLATEAU) OAK	16.00
4910	LIVE (PLATEAU) OAK	13.00
4911	LIVE (PLATEAU) OAK	12.00
4912	LIVE (PLATEAU) OAK	13.00
4913	LIVE (PLATEAU) OAK	11.00

TREES TO BE REMOVED

TREE #	TYPE	DIA
4536	LIVE (PLATEAU) OAK	25.00

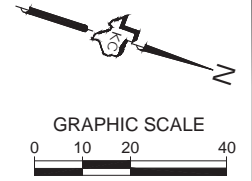
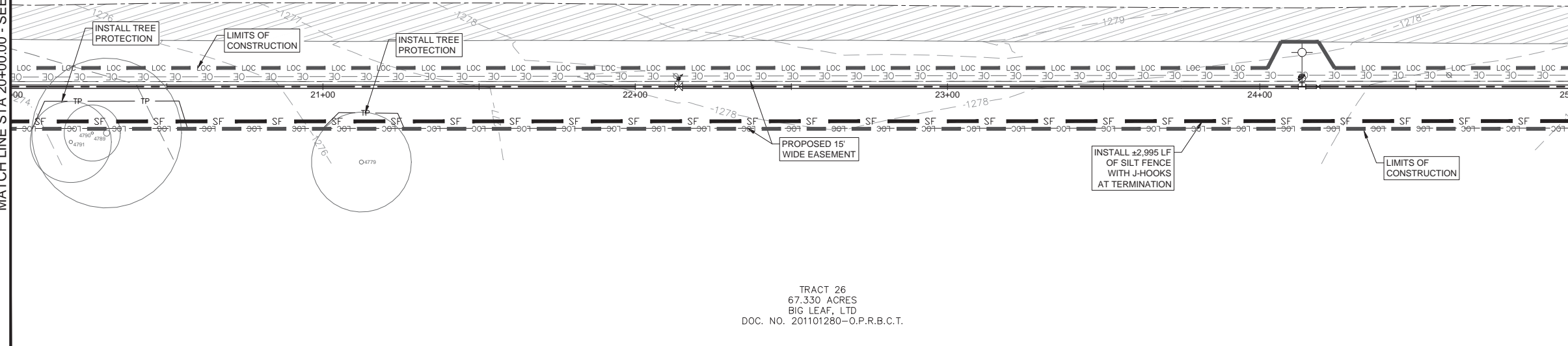
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- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ANY AND ALL EXISTING BUILDINGS/STRUCTURES ON SITE AND UTILITY RELOCATION AND DISCONNECTION WORK. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING SALVAGE, RELOCATION AND/OR DISPOSAL OF ALL EXISTING BUILDINGS AND UTILITIES. DEMOLITION CONTRACTOR TO CONTACT LOCAL UTILITY AUTHORITY TO DISCONNECT, RELOCATE AND/OR CAP EXISTING UTILITIES INVOLVED IN DEMOLITION.
 - CONTRACTOR TO REMOVE ALL CONCRETE, PAVEMENT, CONCRETE CURBS, AND LANDSCAPE FOR THE ENTIRE SITE, WHERE SHOWN BY ENGINEER. CONTRACTOR SHALL ALSO REMOVE ALL FOOTINGS, FOUNDATIONS, AND UTILITY LINES SERVING EXISTING BUILDING AND REMOVED BUILDING STRUCTURES WHERE SHOWN BY ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND IDENTIFYING ANY ADDITIONAL ITEMS THAT ARE TO BE DEMOLISHED, REMOVED, OR RELOCATED AND TO INCLUDE THESE ITEMS AS PART OF THEIR BID.
 - REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
 D. MARTIN STARY
 102414
 LICENSED PROFESSIONAL ENGINEER
 11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:				
Rev. No.				

Date: Nov 20, 2019, 1:40pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

MATCH LINE STA 20+00.00 - SEE SHEET 5.0



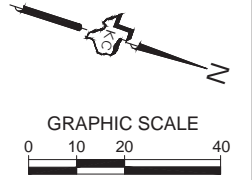
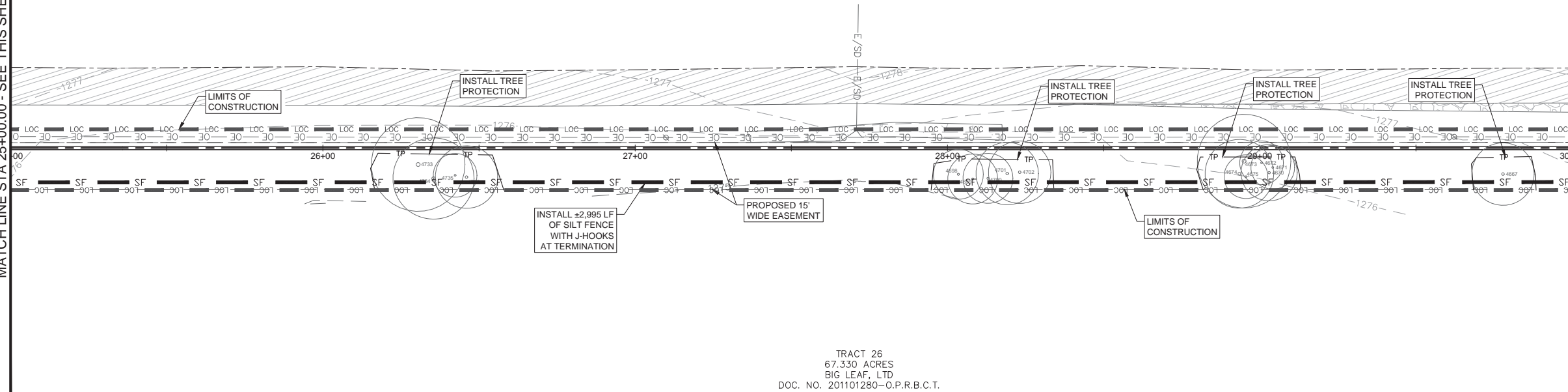
NOTES

1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
2. AREAS LOCATED WITHIN THE LIMITS OF CONSTRUCTION MAY BE USED AS STAGING, STOCKPILE, AND SPOILS AREAS. AT THE DISCRETION OF THE INSPECTOR, ADDITIONAL SILT FENCING MAY BE REQUIRED AT THESE LOCATIONS.
3. NO TREES SHALL BE PRUNED OR REMOVED WITHOUT PRIOR NOTIFICATION TO, AND APPROVAL FROM, THE OWNER.
4. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TPDES GENERAL PERMIT TXR150000 GUIDELINES.
6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30' FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.

TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

MATCH LINE STA 25+00.00 - SEE THIS SHEET

MATCH LINE STA 25+00.00 - SEE THIS SHEET



SEQUENCE OF CONSTRUCTION

1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

MATCH LINE STA 30+00.00 - SEE SHEET 5.2

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 CONSULTING ENGINEERS
 705 HWY. 281 NORTH, PLAZA I, SUITE 103
 MARBLE FALLS, TEXAS 78654
 OFFICE: 830-693-5635 FAX: 830-693-9664
 Email: info@kceengineering.com
 REGISTRATION # F-000977



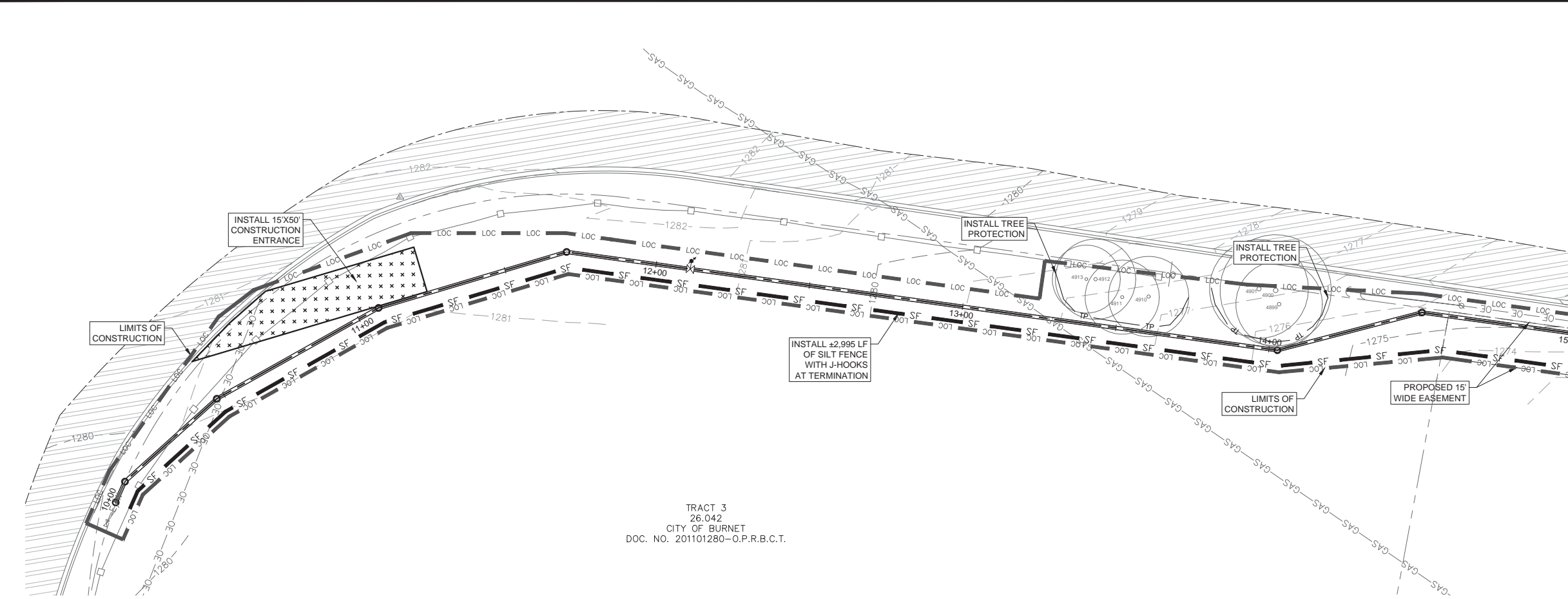
EROSION CONTROL PLAN
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



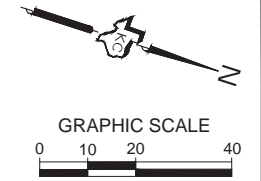
D. Martin Stary
 11/20/2019

Job No.	Scale (Hor.), AS NOTED	Scale (Vert.), AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:	Rev. No.	Date	Remarks	

Date: Nov 20, 2019, 1:40pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

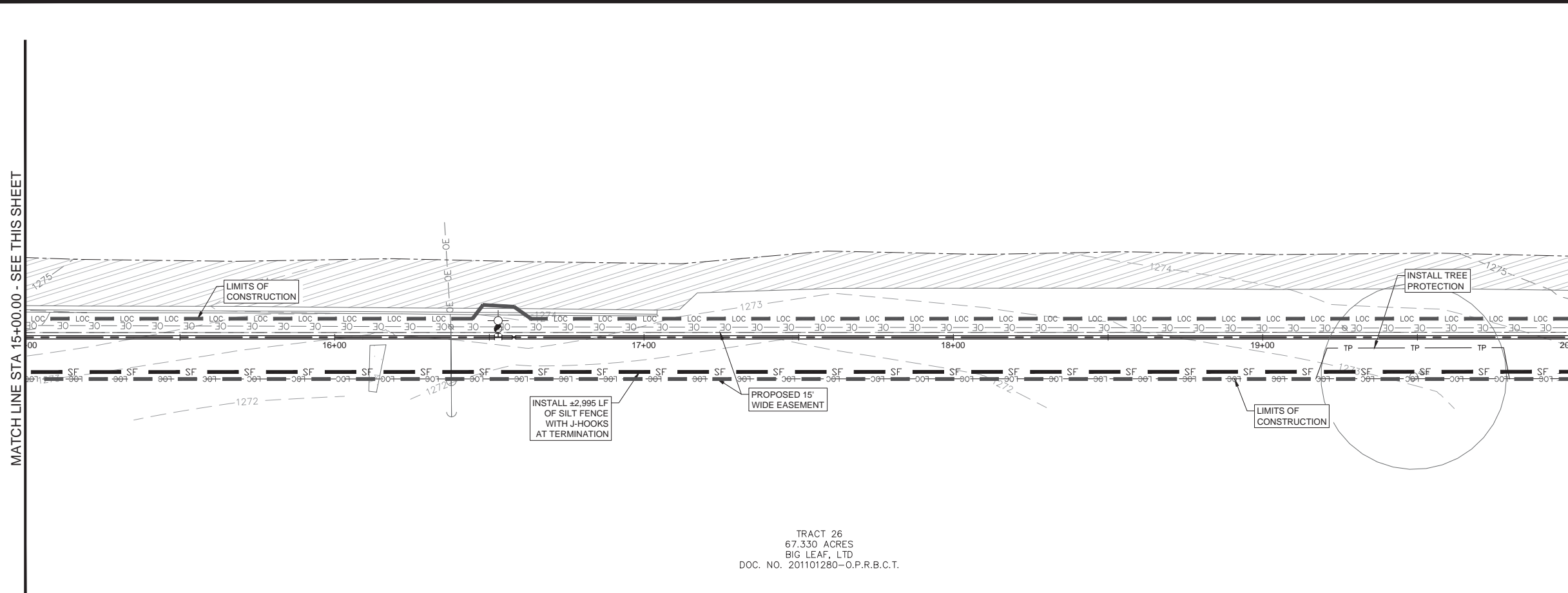


TRACT 3
 26.042
 CITY OF BURNET
 DOC. NO. 201101280-O.P.R.B.C.T.

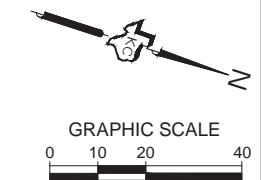


- NOTES
1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
 2. AREAS LOCATED WITHIN THE LIMITS OF CONSTRUCTION MAY BE USED AS STAGING, STOCKPILE, AND SPOILS AREAS. AT THE DISCRETION OF THE INSPECTOR, ADDITIONAL SILT FENCING MAY BE REQUIRED AT THESE LOCATIONS.
 3. NO TREES SHALL BE PRUNED OR REMOVED WITHOUT PRIOR NOTIFICATION TO, AND APPROVAL FROM, THE OWNER.
 4. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
 5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TPDES GENERAL PERMIT TXR150000 GUIDELINES.
 6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
 7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
 9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30' FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
 10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.

MATCH LINE STA 15+00.00 - SEE THIS SHEET



TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.



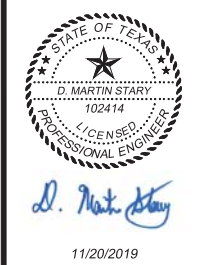
- SEQUENCE OF CONSTRUCTION
1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
 3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
 4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
 5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
 7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
 8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

MATCH LINE STA 20+00.00 - SEE SHEET 5.1

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 705 HWY. 281 NORTH, PLAZA I, SUITE 103
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 Email: info@kceengineering.com
 REGISTRATION # F-000977



EROSION CONTROL PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

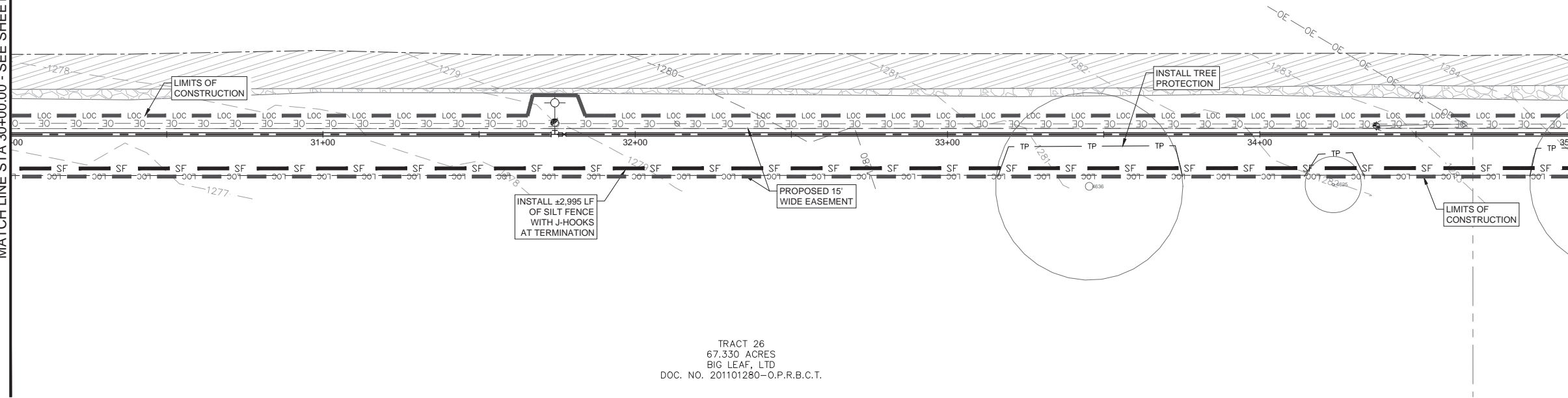


Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:	Rev. No.	Date	Remarks	

Date: Nov 20, 2019, 1:40pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

MATCH LINE STA 30+00.00 - SEE SHEET 5.1

MATCH LINE STA 35+00.00 - SEE THIS SHEET

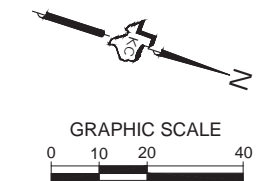


TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

MATCH LINE STA 35+00.00 - SEE THIS SHEET

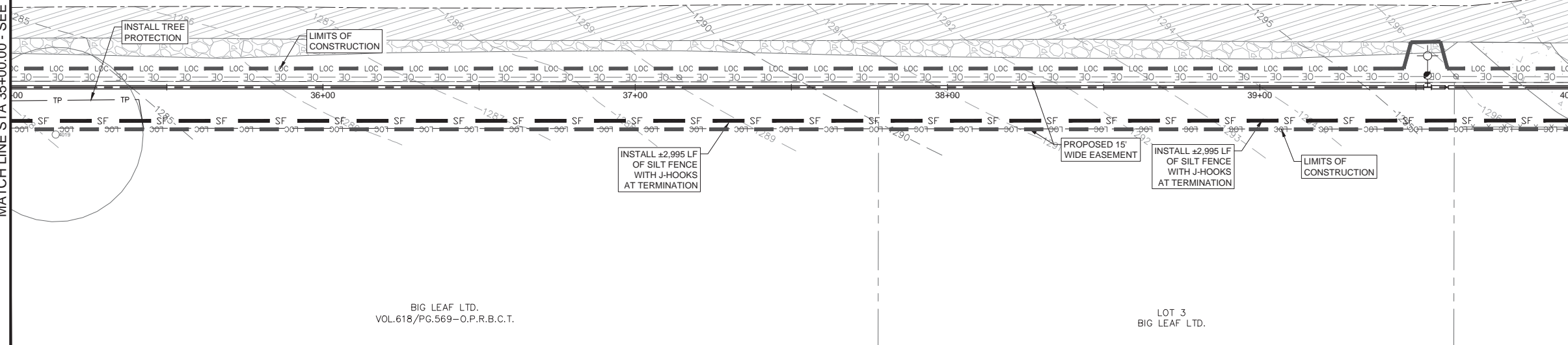
NOTES

1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
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3. NO TREES SHALL BE PRUNED OR REMOVED WITHOUT PRIOR NOTIFICATION TO, AND APPROVAL FROM, THE OWNER.
4. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TPDES GENERAL PERMIT TXR150000 GUIDELINES.
6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30" FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.



MATCH LINE STA 35+00.00 - SEE THIS SHEET

MATCH LINE STA 35+00.00 - SEE THIS SHEET



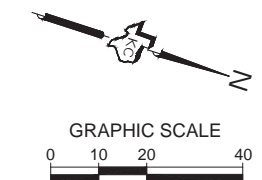
BIG LEAF LTD.
 VOL.618/PG.569-O.P.R.B.C.T.

LOT 3
 BIG LEAF LTD.

MATCH LINE STA 40+00.00 - SEE SHEET 5.3

SEQUENCE OF CONSTRUCTION

1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.



K.C. ENGINEERING, INC.
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 705 HWY. 281 NORTH, PLAZA I, SUITE 103
 MARBLE FALLS, TEXAS 78654
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 Email: info@kcengineering.com
 REGISTRATION # F-000977



EROSION CONTROL PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

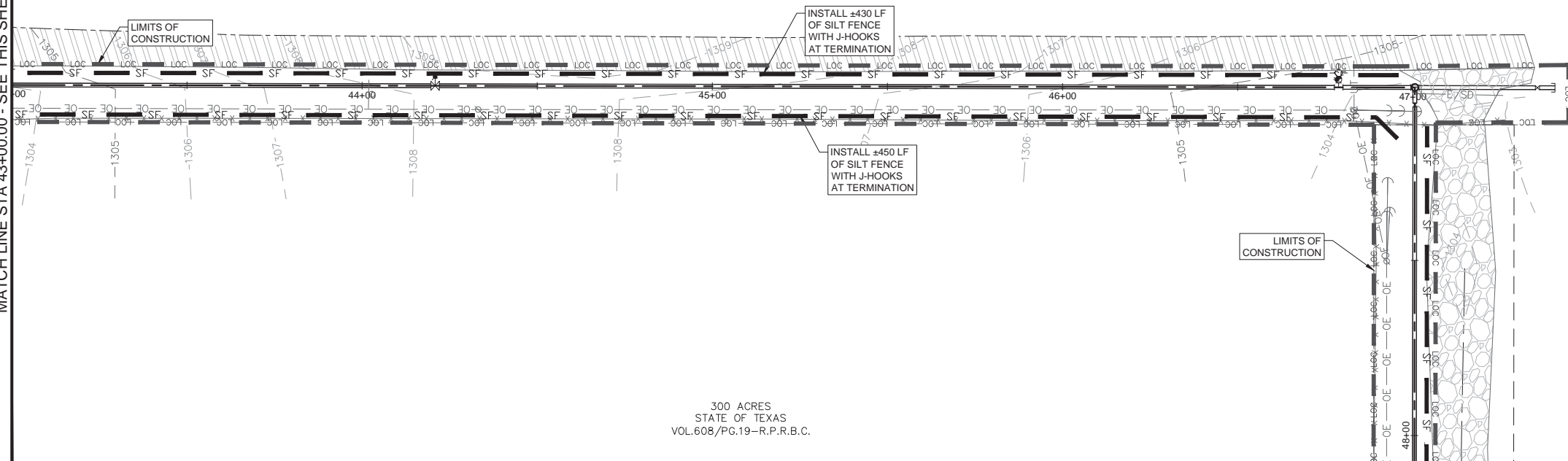
11/20/2019

D. Martin Stary
 LICENSED PROFESSIONAL ENGINEER

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:	Rev. No.	Date	Remarks	

Date: Nov 20, 2019, 1:40pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

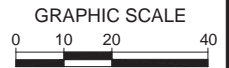
MATCHLINE STA 43+00.00 - SEE THIS SHEET



300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

75 ACRES
 BURNET COUNTY TEXAS
 200712014-0.P.P.

MATCHLINE STA 48+00.00 - SEE SHEET 5.4



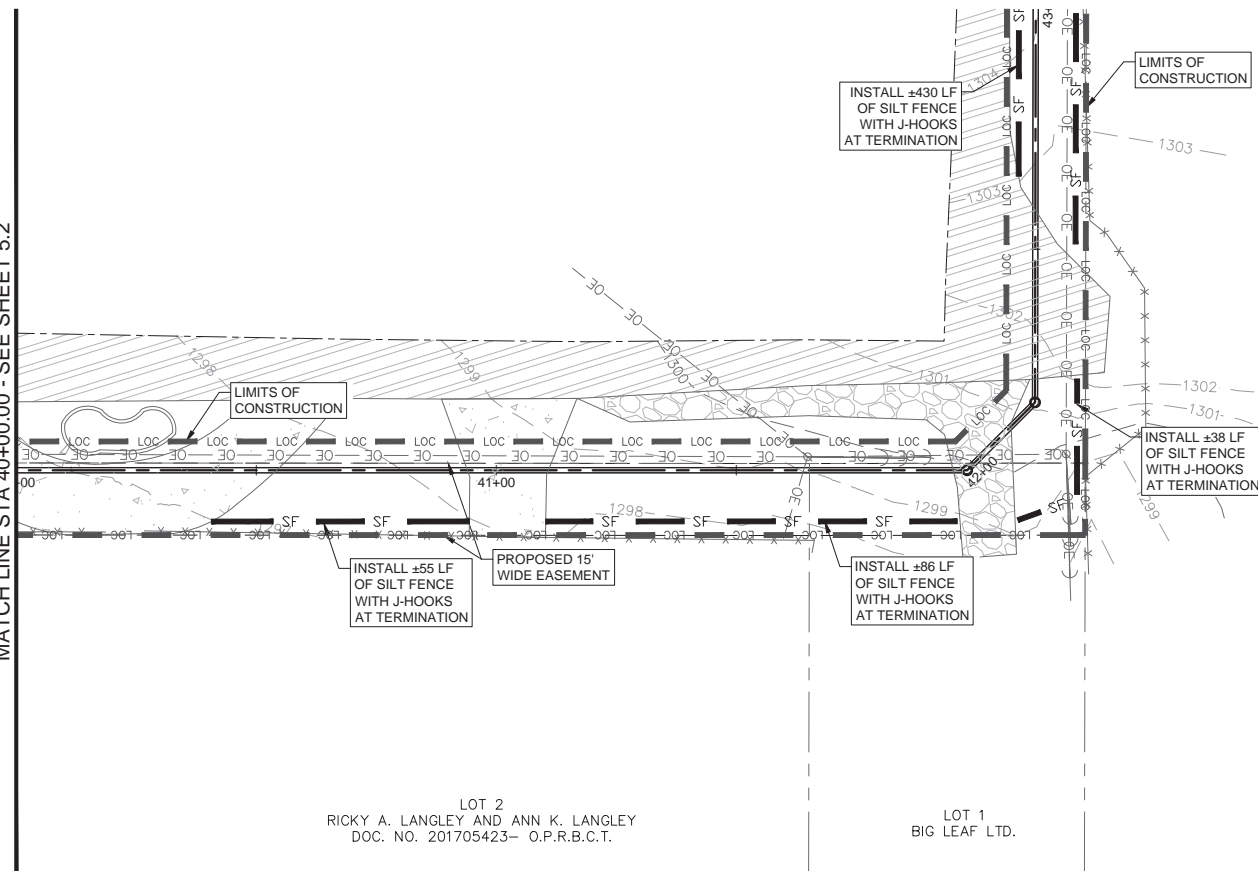
D. Martin Stary

11/20/2019

Job No.	Scale (Hor.): AS NOTED
18-148	Scale (Vert.): AS NOTED
Date:	Checked By: DMS
Rev. No.	Drawn By: NTF
Date	Remarks

SHEET
 5.3

MATCHLINE STA 40+00.00 - SEE SHEET 5.2



LOT 2
 RICKY A. LANGLEY AND ANN K. LANGLEY
 DOC. NO. 201705423- O.P.R.B.C.T.

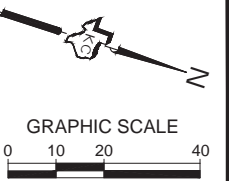
LOT 1
 BIG LEAF LTD.

300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

MATCHLINE STA 43+00.00 - SEE THIS SHEET

SEQUENCE OF CONSTRUCTION

1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.



NOTES

1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
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5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TPDES GENERAL PERMIT TXR150000 GUIDELINES.
6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30' FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.

K.C. ENGINEERING, INC.
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 Email: info@kcengineering.com
 REGISTRATION # F-000977



EROSION CONTROL PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

Date: Nov 20, 2019, 1:41pm User: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

MATCH LINE STA 48+00.00 - SEE SHEET 5.3

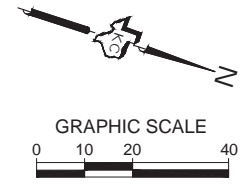
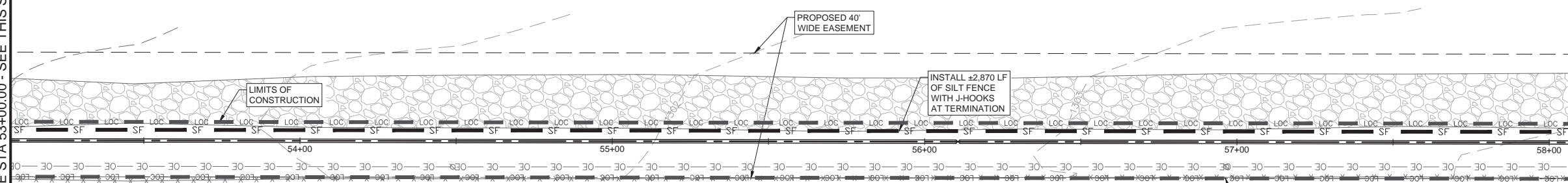
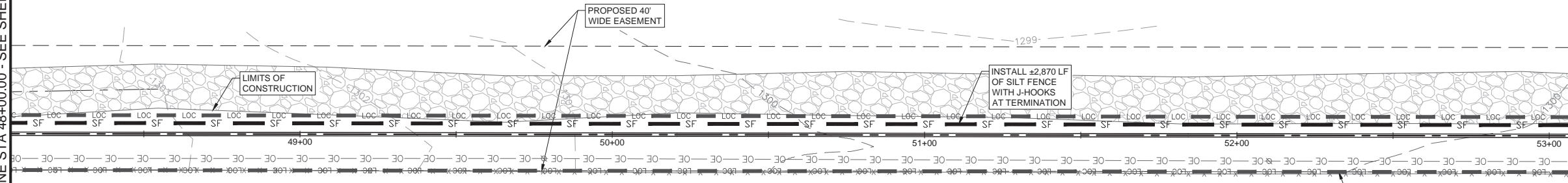
MATCH LINE STA 53+00.00 - SEE THIS SHEET

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

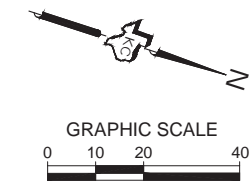
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 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.



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8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30" FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.



SEQUENCE OF CONSTRUCTION

1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

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 REGISTRATION # F-000977



EROSION CONTROL PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Checked By: DMS	Drawn By: NTF
18-148				
Date:	Rev. No.	Date	Remarks	

Date: Nov 20, 2019, 1:41pm User: lb: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\5.0 EROSION CONTROL PLAN.dwg

MATCH LINE STA 58+00.00 - SEE SHEET 5.4

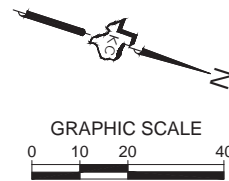
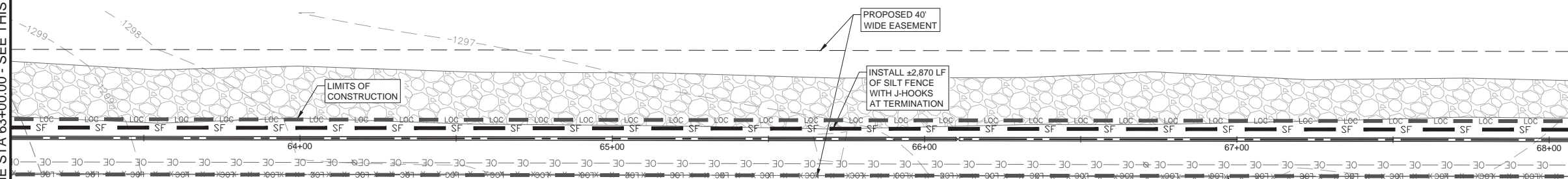
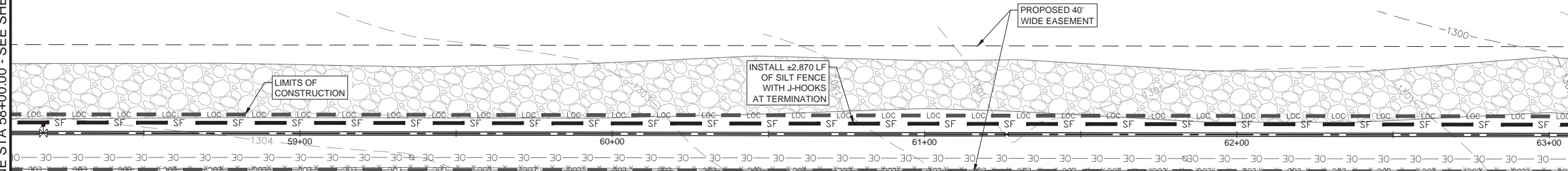
MATCH LINE STA 63+00.00 - SEE THIS SHEET

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/P.G.19-R.P.R.B.C.

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/P.G.19-R.P.R.B.C.



- NOTES
1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
 2. AREAS LOCATED WITHIN THE LIMITS OF CONSTRUCTION MAY BE USED AS STAGING, STOCKPILE, AND SPOILS AREAS. AT THE DISCRETION OF THE INSPECTOR, ADDITIONAL SILT FENCING MAY BE REQUIRED AT THESE LOCATIONS.
 3. NO TREES SHALL BE PRUNED OR REMOVED WITHOUT PRIOR NOTIFICATION TO, AND APPROVAL FROM, THE OWNER.
 4. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
 5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TPDES GENERAL PERMIT TXR150000 GUIDELINES.
 6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
 7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
 9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30" FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
 10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.

- SEQUENCE OF CONSTRUCTION
1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
 3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
 4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
 5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
 7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
 8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

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 Email: info@kceengineering.com
 REGISTRATION # F-000977



EROSION CONTROL PLAN
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

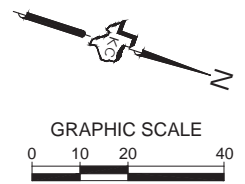
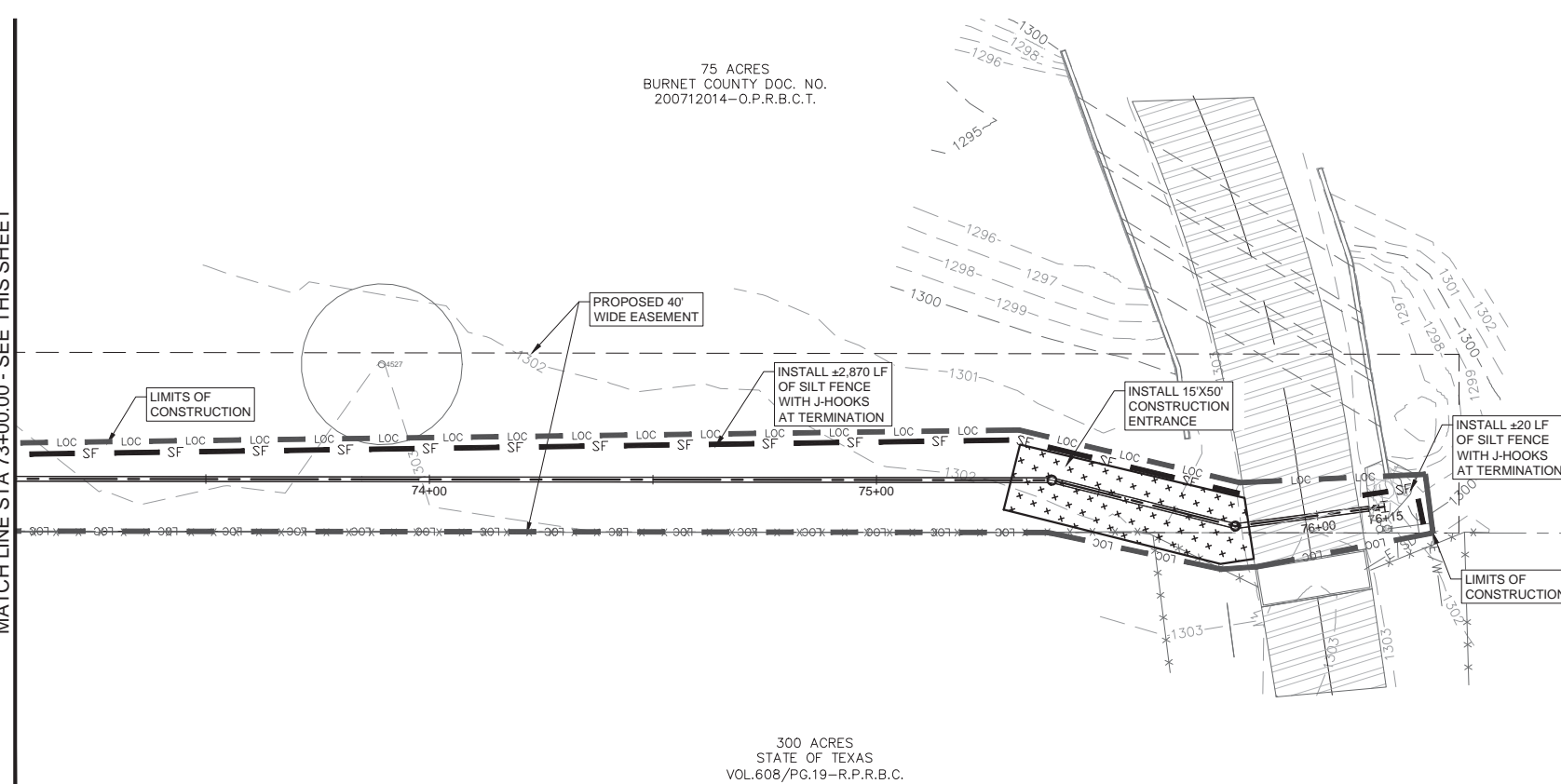
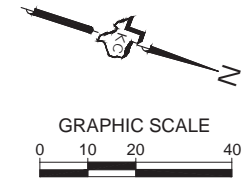
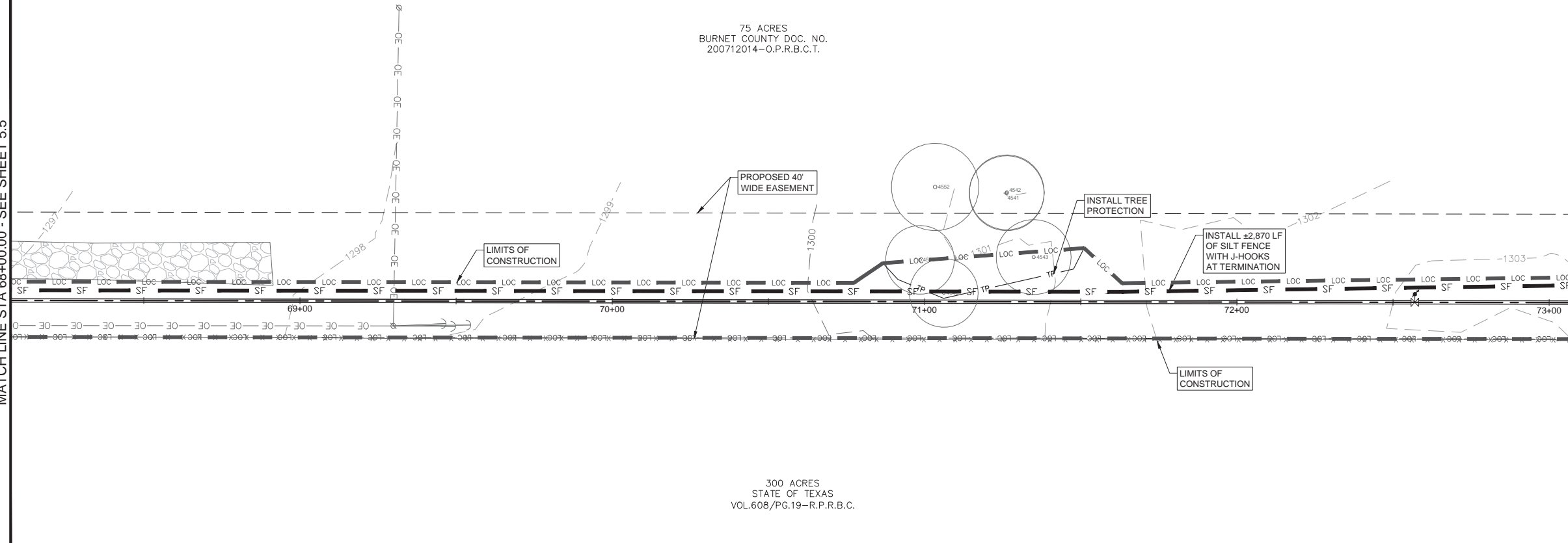
11/20/2019

Job No.	18-148
Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS
Rev. No.	Drawn By: NTF
	Remarks
	Date

Date: Nov 20, 2019, 1:41pm User: ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan_Sheets\5.0 EROSION CONTROL PLAN.dwg

MATCH LINE STA 68+00.00 - SEE SHEET 5.5

MATCH LINE STA 73+00.00 - SEE THIS SHEET



NOTES

1. REVEGETATION FOR AREAS WITH SLOPES OF 3:1 (H:V) SHALL REQUIRE THE INSTALLATION OF EROSION CONTROL MATTING OR THROUGH INSTALLATION OF SOD. AREAS WITH SLOPES IN EXCESS OF 3:1 (H:V) SHALL REQUIRE RETAINING WALLS OR OTHER SLOPE STABILIZATION METHODS.
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4. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE, AT THE CONTRACTOR'S EXPENSE, ALL FORMS AND PAPERWORK REQUIRED BY THE TDPES GENERAL PERMIT TXR150000 GUIDELINES.
6. CONCRETE WASHOUT LOCATION TO BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND SHALL BE PROPERLY NOTED ON THE SITE MAP AT THAT TIME.
7. MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
8. ENVIRONMENTAL INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE IF NEEDED.
9. J-HOOKS SHALL BE INSTALLED IN ALL AREAS WHERE THE SILT FENCE IS GREATER THAN 30° FROM THE CONTOURS AND AT ENDS OF SILT FENCE.
10. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.

SEQUENCE OF CONSTRUCTION

1. INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THIS PLAN.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT SITE WORK PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES, AND OTHER AFFECTED PARTIES.
3. INSTALL ALL UTILITIES AND APPURTENANCES IN ACCORDANCE WITH THE APPROVED PLANS.
4. PERFORM FINAL SITE GRADING AND ESTABLISH VEGETATIVE AREAS.
5. PERFORM CLEAN UP FOR THE SITE AND REVEGETATE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
6. REMOVE ALL SEDIMENT FROM SITE, RESTORE AND STABILIZE ANY DISTURBED AREAS.
7. ONCE A MINIMUM OF 80% VEGETATION IS ESTABLISHED (OR AS REQUIRED BY THE PROJECT SPECIFICATIONS), WITH NO BARE AREAS EXCEEDING 16 SF, CONTACT ENGINEER AND LCRA INSPECTOR FOR INSPECTION.
8. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

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 REGISTRATION # F-000977



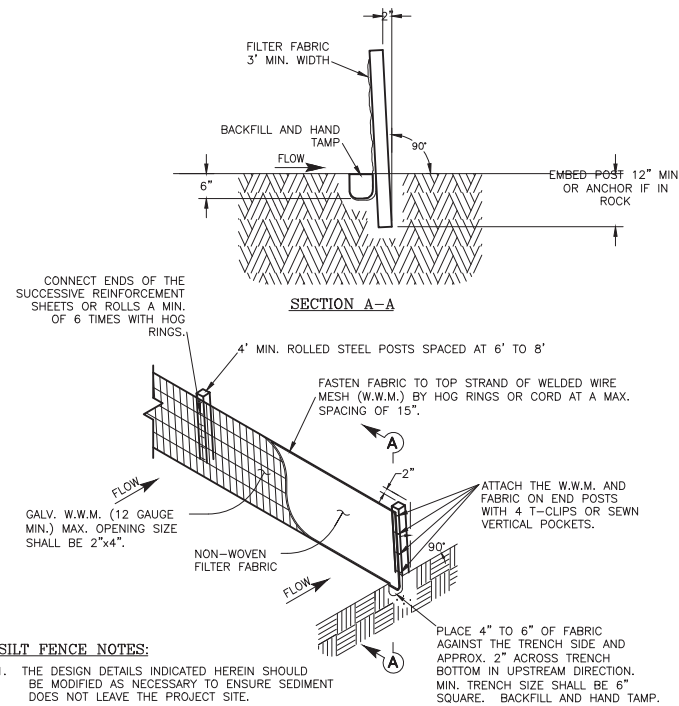
EROSION CONTROL PLAN
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

Guidelines for Selection of Temporary Erosion and Sedimentation Controls				
CONTROL TYPE	APPLICATION	DRAINAGE AREA	SLOPE	SPACING
SILT FENCE (Interior)	Areas of sheet flow or very minor channel flow	2 Acres	<20%	200 ft.
SILT FENCE (Perimeter)	Downslope borders of site; upslope border if necessary to divert offsite drainage	N/A	N/A	200 ft.
TRIANGULAR FILTER DIKE	Areas within site requiring frequent vehicular access	1 Acre	<10%	N/A
ROCK BERM	Drainage swales and ditches within and below site	5 Acres	<30%	150 ft.
HIGH SERVICE ROCK BERM	Near critical features, high flow areas within and below site	5 Acres	<30%	150 ft.
INLET PROTECTION	Storm sewer inlets receiving drainage	N/A	N/A	N/A
SEDIMENT BASIN	Appropriate for large disturbed areas	5-100 Acres	N/A	N/A
CONSTRUCTION EXIT	Should be used at all designated access points	N/A	N/A	N/A
CONCRETE WASHOUT	Use on all concrete pouring operations	N/A	N/A	N/A

TEMPORARY EROSION AND SEDIMENTATION GUIDELINES



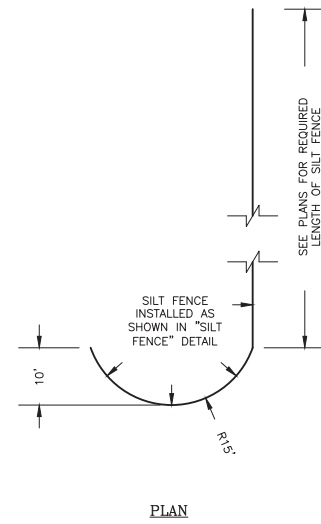
SILT FENCE NOTES:

- THE DESIGN DETAILS INDICATED HEREIN SHOULD BE MODIFIED AS NECESSARY TO ENSURE SEDIMENT DOES NOT LEAVE THE PROJECT SITE.

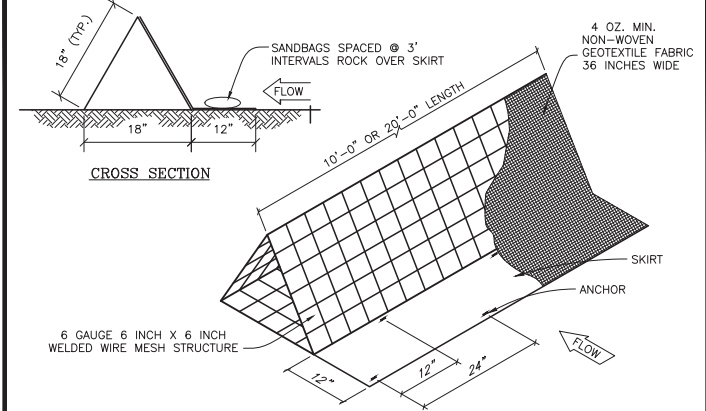
SILT FENCE USAGE GUIDELINES

A SILT FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF.

SILT FENCE DETAIL



J-HOOK DETAIL



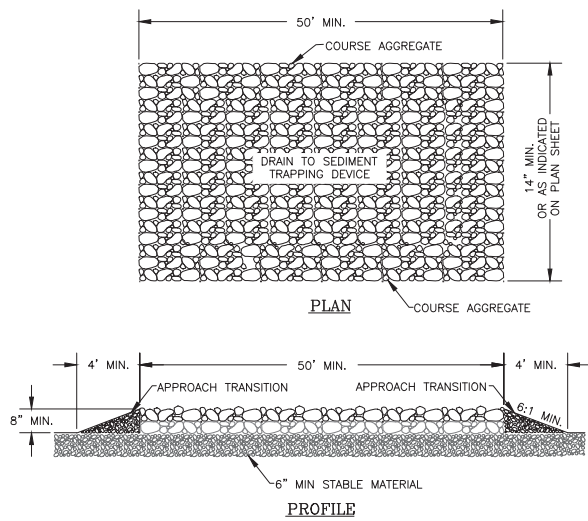
INSTALLATION:

- LAYOUT THE FILTER DIKE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- PLACE THE FILTER DIKE SECTIONS ONE AT A TIME, WITH THE SKIRT ON THE UPSHORE SIDE TOWARDS THE DIRECTION OF FLOW, ANCHORING EACH SECTION TO THE GROUND BEFORE THE NEXT SECTION IS PLACED.
- SANDBAGS SHOULD BE PLACED ON 3' CENTERS BETWEEN ANCHORS.
- SECURELY FASTEN THE SKIRT FROM ONE SECTION OF FILTER DIKE TO THE NEXT.
- FILTER DIKES MUST MAINTAIN CONTINUOUS CONTACT WITH THE GROUND.
- AFTER THE SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHOULD BE REMOVED. SILT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

INSPECTION AND MAINTENANCE GUIDELINES:

- INSPECTION SHOULD BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- INSPECT AND REALIGN BERMS AS NEEDED TO PREVENT GAPS BETWEEN THE SECTIONS.
- ACCUMULATED SILT SHOULD BE REMOVED AFTER EACH RAINFALL EVENT, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.

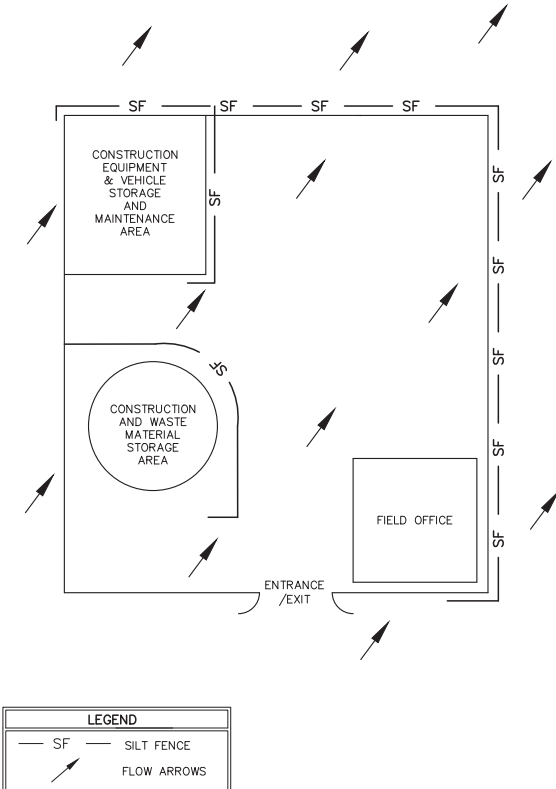
TRIANGULAR FILTER DIKE



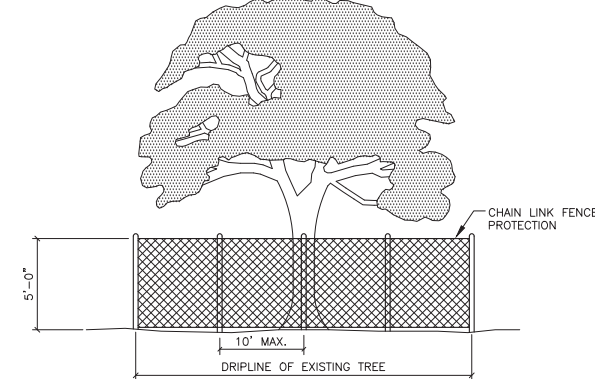
CONSTRUCTION EXIT NOTES:

- THE LENGTH OF THE ROCK CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
- THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
- THE APPROACH TRANSITION SHOULD BE NO STEEPER THAN 6:1.
- THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW FOR POSITIVE DRAINAGE.
- THE DESIGN DETAILS INDICATED HEREIN SHOULD BE MODIFIED AS NECESSARY TO ENSURE SEDIMENT DOES NOT LEAVE PROJECT SITE.

CONSTRUCTION EXIT



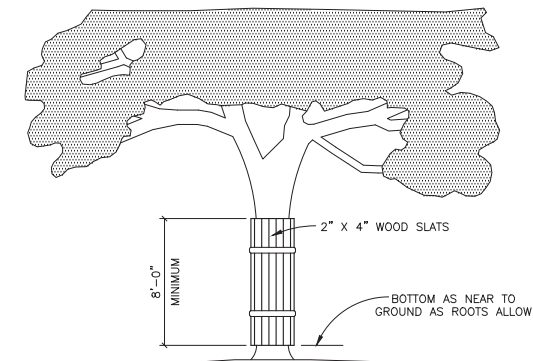
CONSTRUCTION STAGING AREA



TREE PROTECTION NOTES:

- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
- FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES; WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
- EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

TREE PROTECTION - CHAIN LINK FENCE



TREE PROTECTION NOTES:

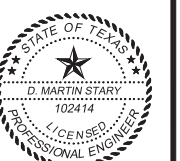
- WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN FOUR FEET (4'-0") TO A TREE TRUNK; PROTECT THE TRUNK WITH STRAPPED-ON-PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE REDUCED FENCING PROVIDED.
- ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE, AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINE, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- NO LANDSCAPE TOPSOIL DRESSING GREATER THE FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE DRIPLINE OF A TREE. NO SOIL 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.

TREE PROTECTION - WOOD SLATS

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REGISTRATION # F-000977



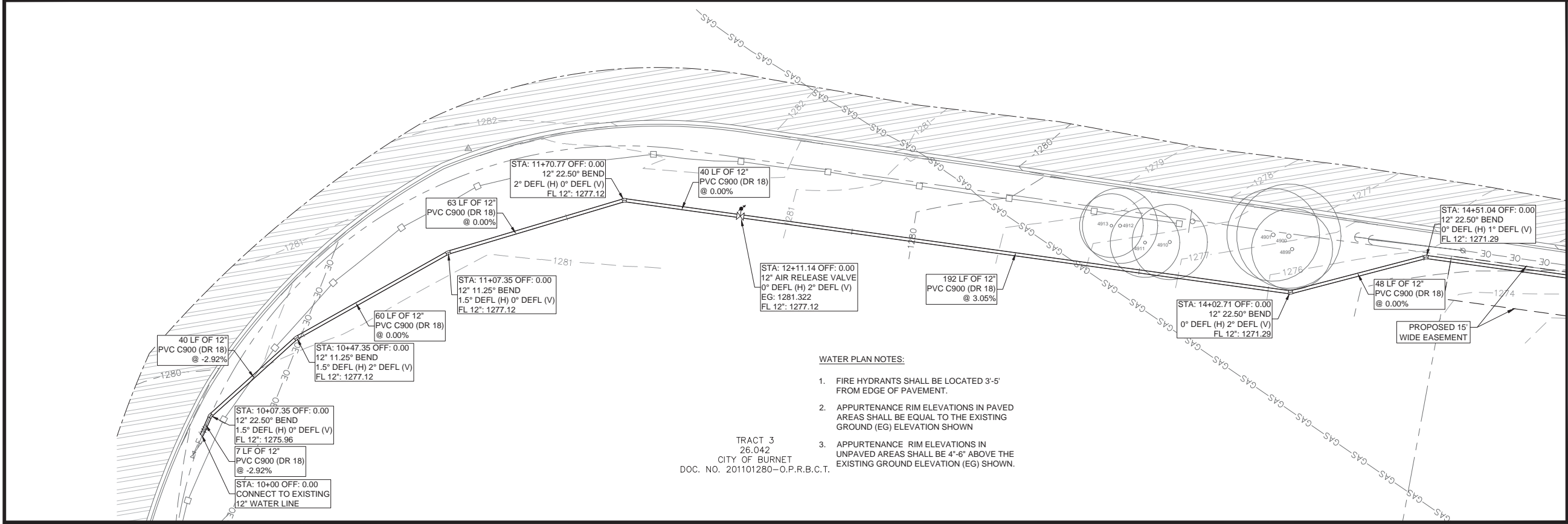
EROSION CONTROL DETAILS
OAK VISTA WATER LINE
CITY OF BURNET, TEXAS



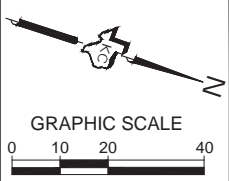
11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED	Drawn By: NTF
18-148			
Date:	Checked By: DMS	Date:	Remarks:
Rev. No.			

Date: Nov 20, 2019, 1:42pm User ID: nathan.fuller
 File: K:\18-148-City of Burnet - Oak Vista Water Line\Design\Plan Sheets\6.0 WATER PLAN & PROFILE.dwg



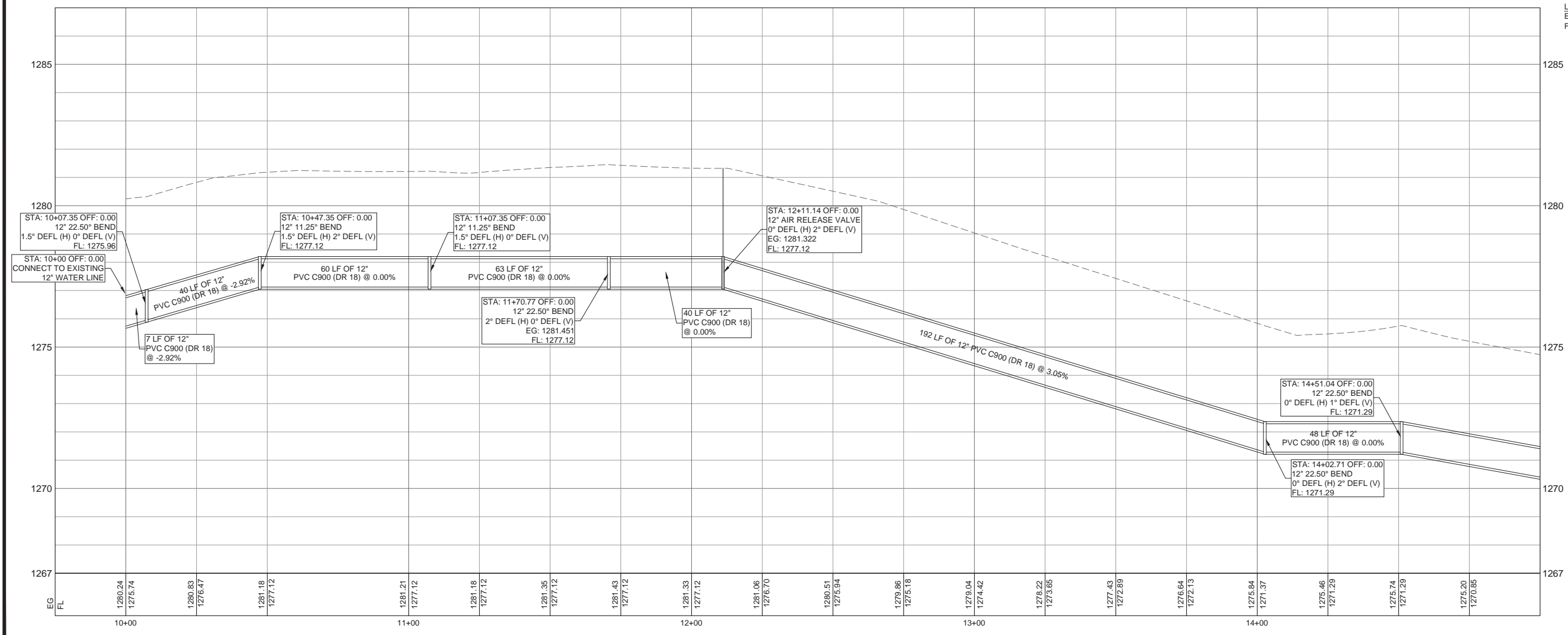
MATCH LINE STA 15+00.00 - SEE SHEET 6.1



WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.

TRACT 3
 26.042
 CITY OF BURNET
 DOC. NO. 201101280-O.P.R.B.C.T.

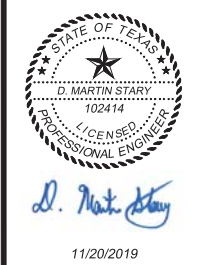


LEGEND
 EG = EXISTING GROUND
 FL = FLOW LINE

K.C. ENGINEERING, INC.
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 REGISTRATION # F-000977



WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



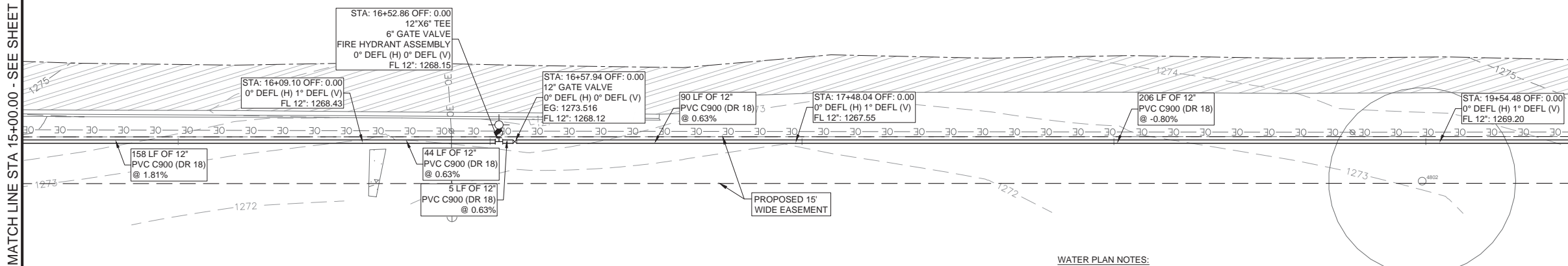
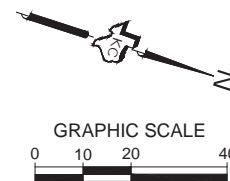
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18-148				
Date:				
Rev. No.	Date	Remarks		

SHEET
 6.0

Date: Nov 20, 2019, 1:42pm User ID: nathan.fuller
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MATCH LINE STA 15+00.00 - SEE SHEET 6.0

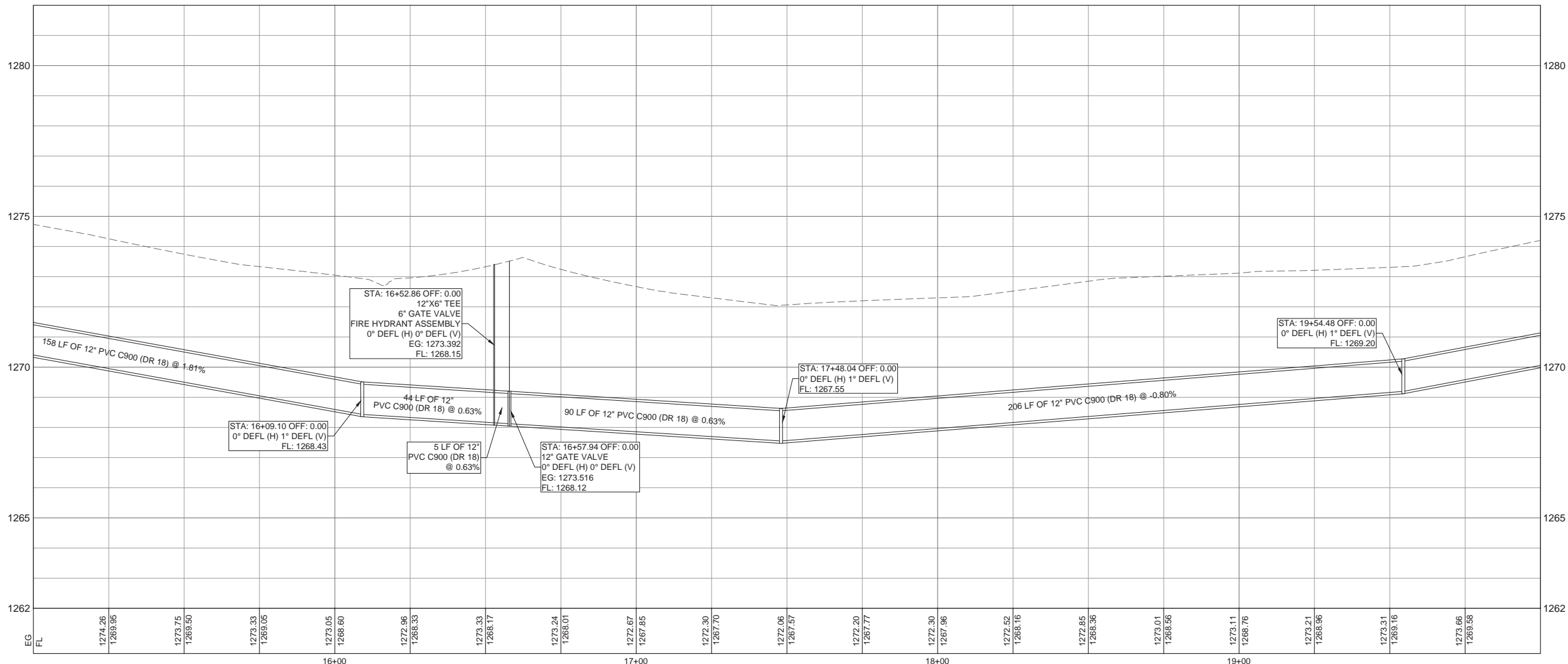
MATCH LINE STA 20+00.00 - SEE SHEET 6.2



TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280--O.P.R.B.C.T.

WATER PLAN NOTES:

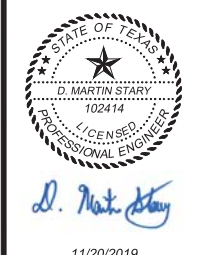
1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
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3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.



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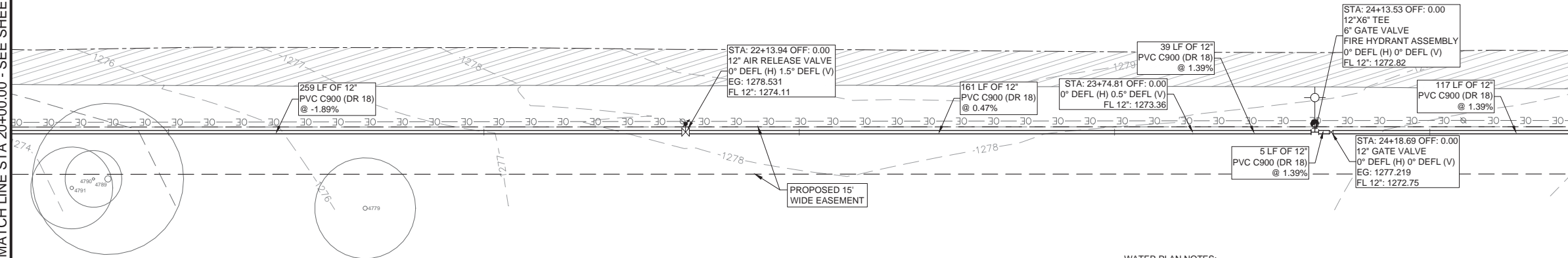
WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

Date: Nov 20, 2019, 1:43pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\6.0 WATER PLAN & PROFILE.dwg

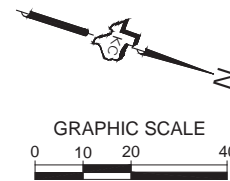
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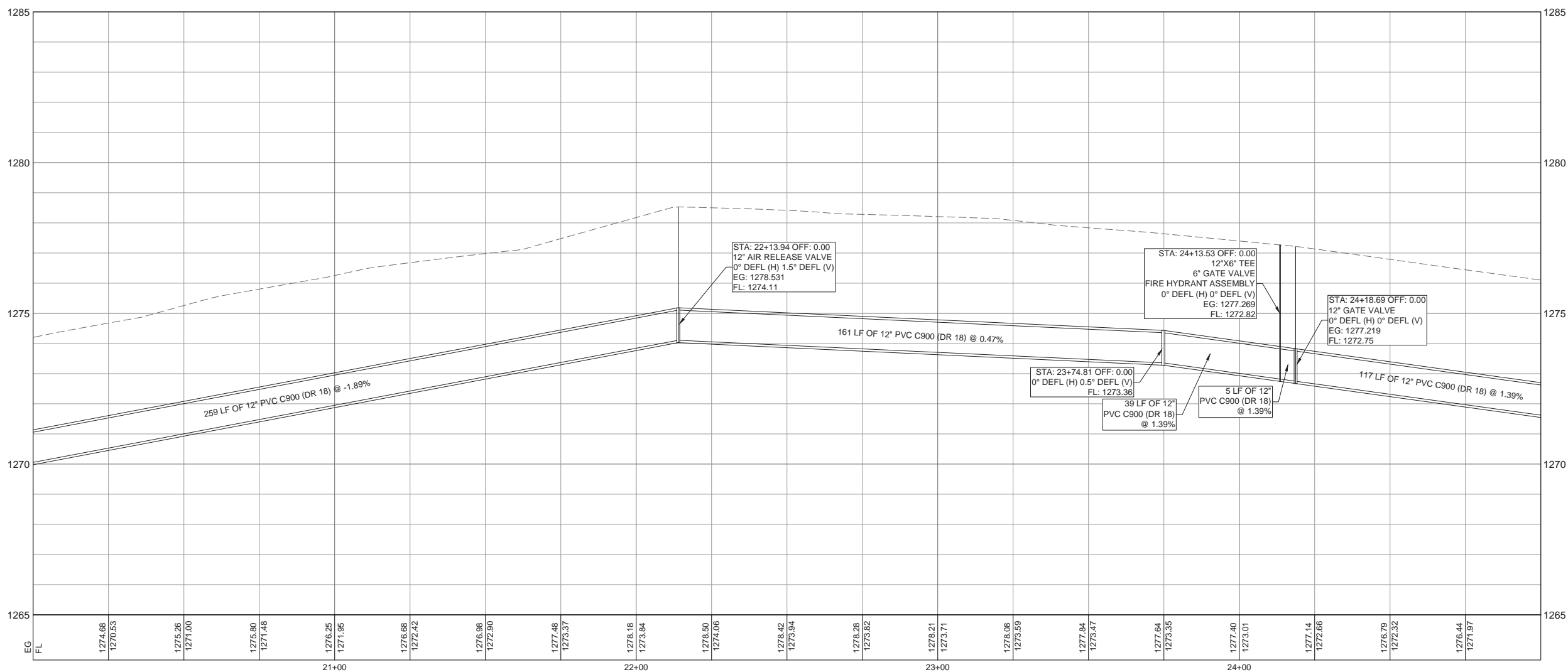
TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

WATER PLAN NOTES:

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2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.



MATCH LINE STA 25+00.00 - SEE SHEET 6.3



LEGEND
 EG = EXISTING GROUND
 FL = FLOW LINE

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WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



D. Martin Stary

11/20/2019

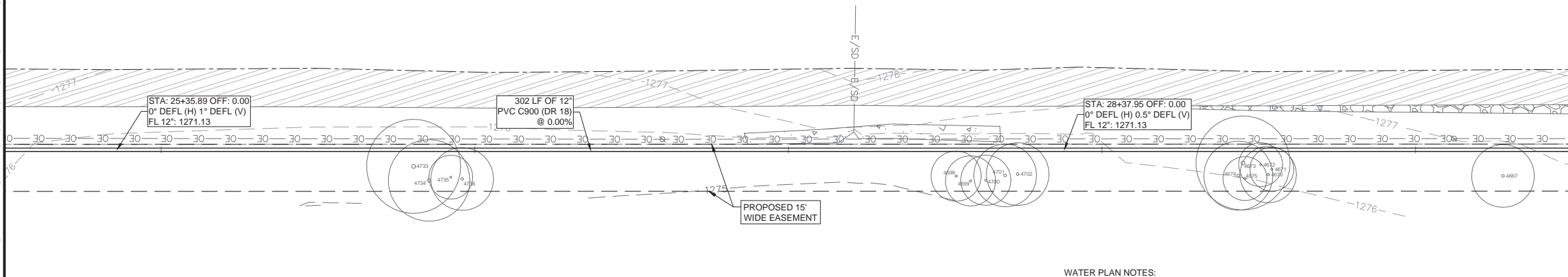
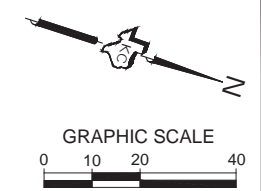
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Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET
6.2

Date: Nov 20, 2019, 1:43pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\6.0 WATER PLAN & PROFILE.dwg

MATCH LINE STA 25+00.00 - SEE SHEET 6.2

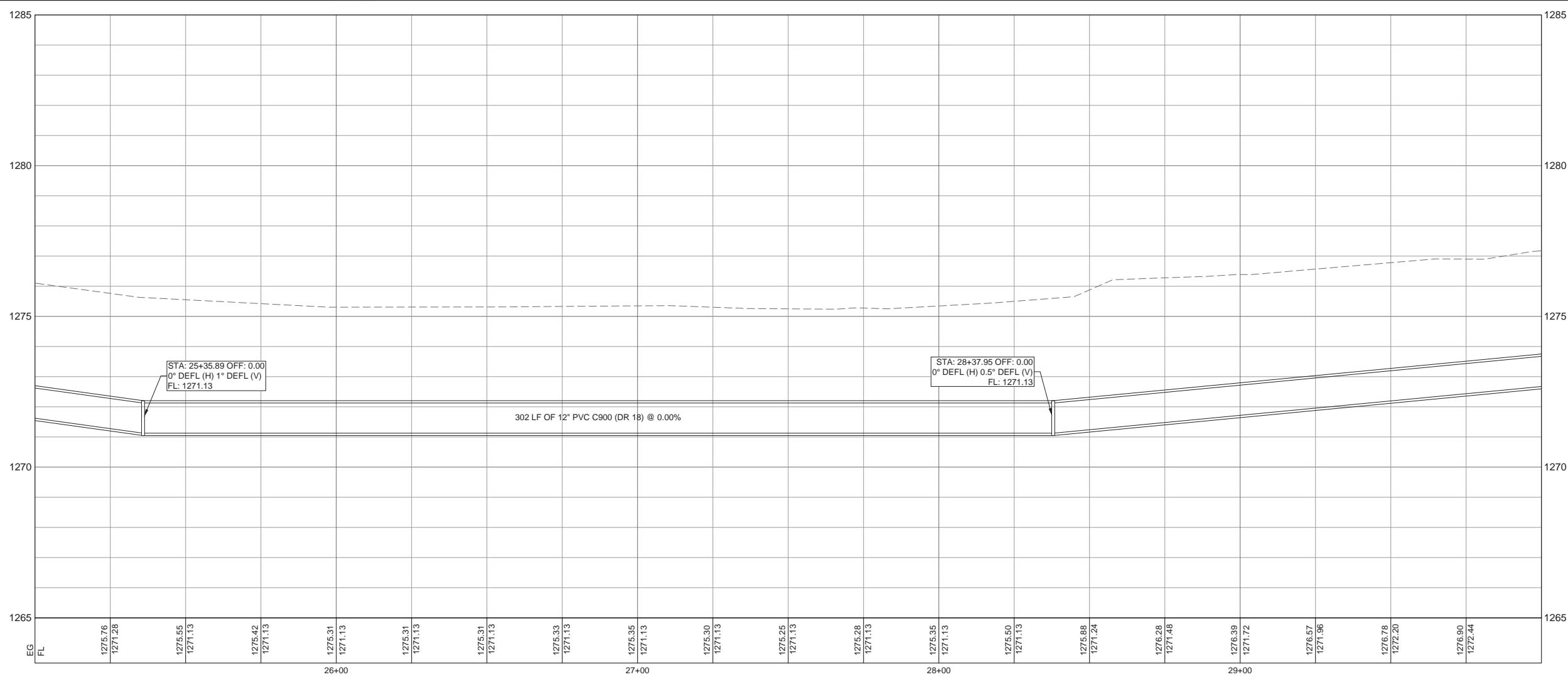
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TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.



LEGEND
 EG = EXISTING GROUND
 FL = FLOW LINE

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 Email: info@kcengineering.com
 REGISTRATION # F-000977

WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

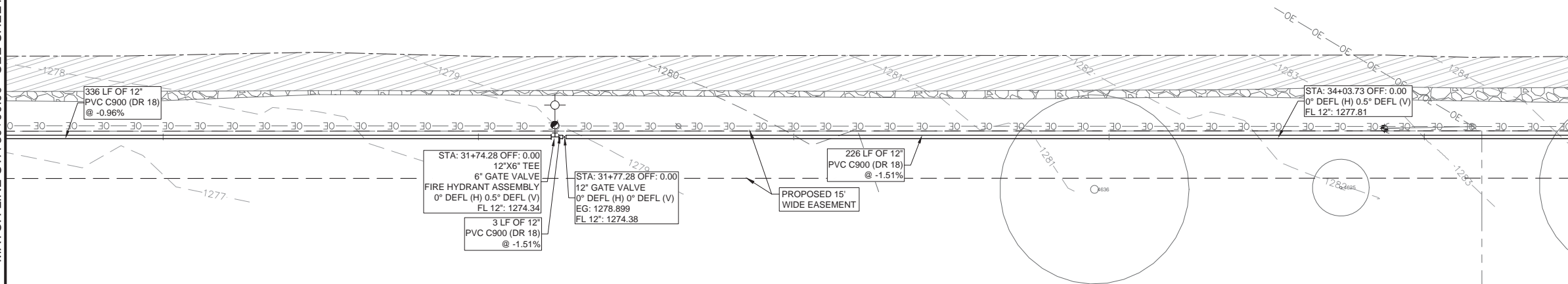
D. Martin Stary
 11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

Date: Nov 20, 2019, 1:43pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line Design\Plan Sheets\6.0 WATER PLAN & PROFILE.dwg

MATCH LINE STA 30+00.00 - SEE SHEET 6.3

MATCH LINE STA 35+00.00 - SEE SHEET 6.5

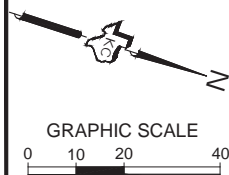
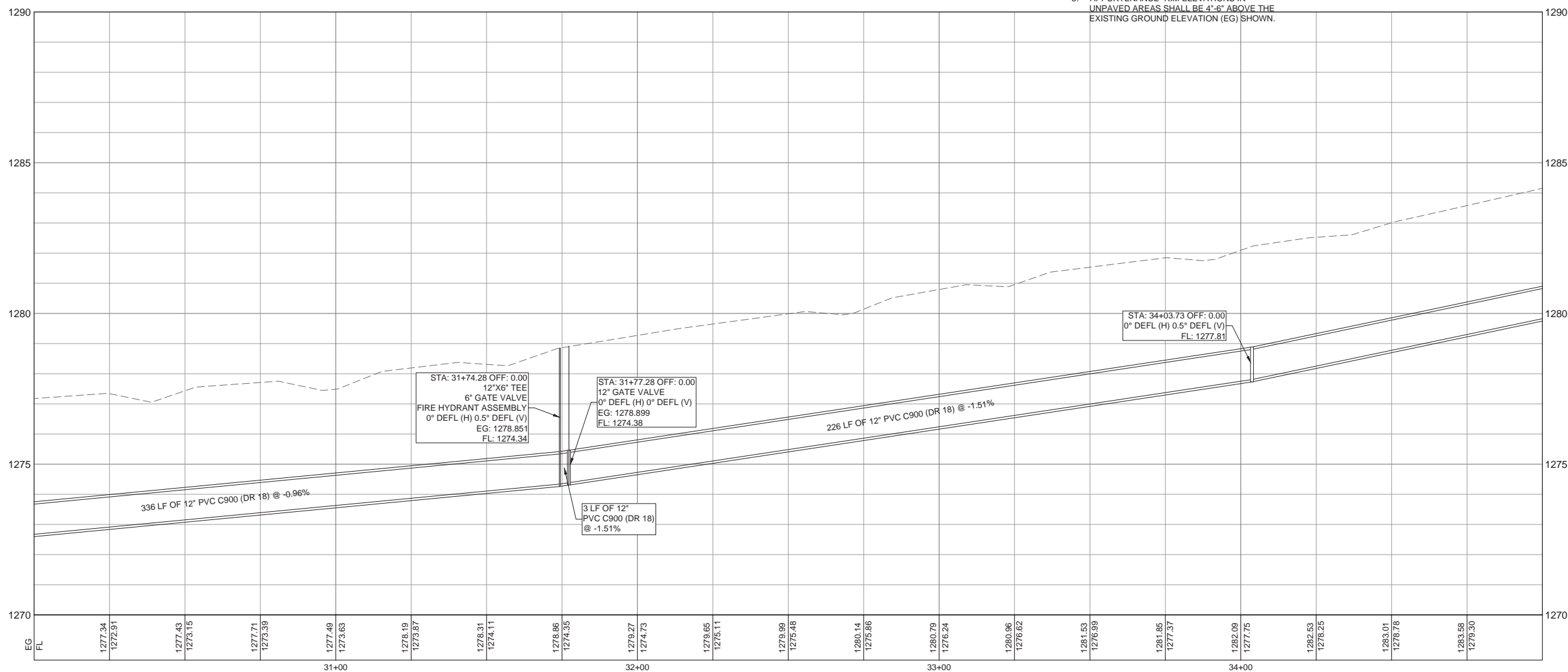


TRACT 26
 67.330 ACRES
 BIG LEAF, LTD
 DOC. NO. 201101280-O.P.R.B.C.T.

WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4"-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.

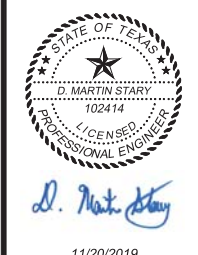
LEGEND
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WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
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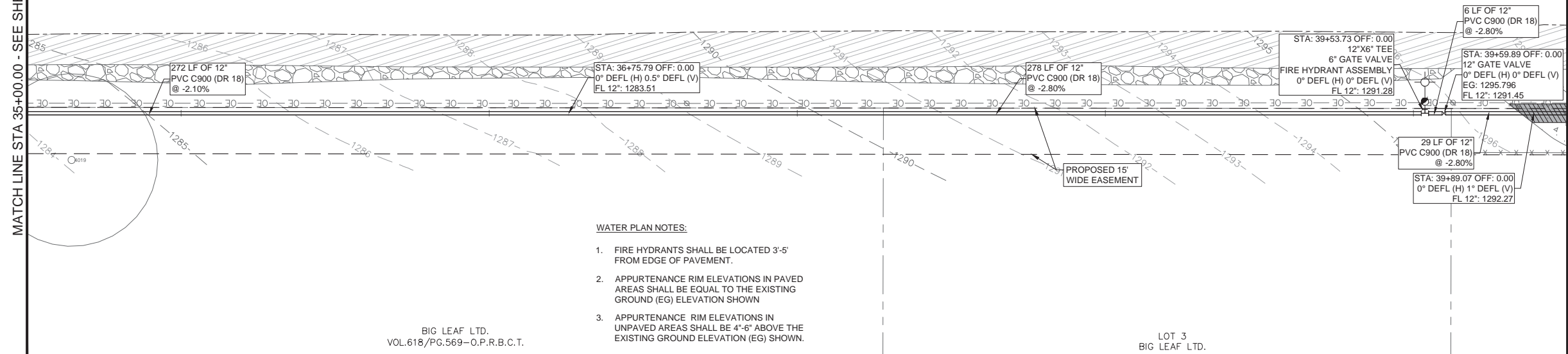
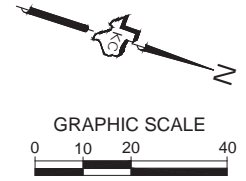
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Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET 6.4

Date: Nov 20, 2019, 1:43pm User ID: nathan.fuller
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MATCH LINE STA 35+00.00 - SEE SHEET 6.4

MATCH LINE STA 40+00.00 - SEE SHEET 6.6

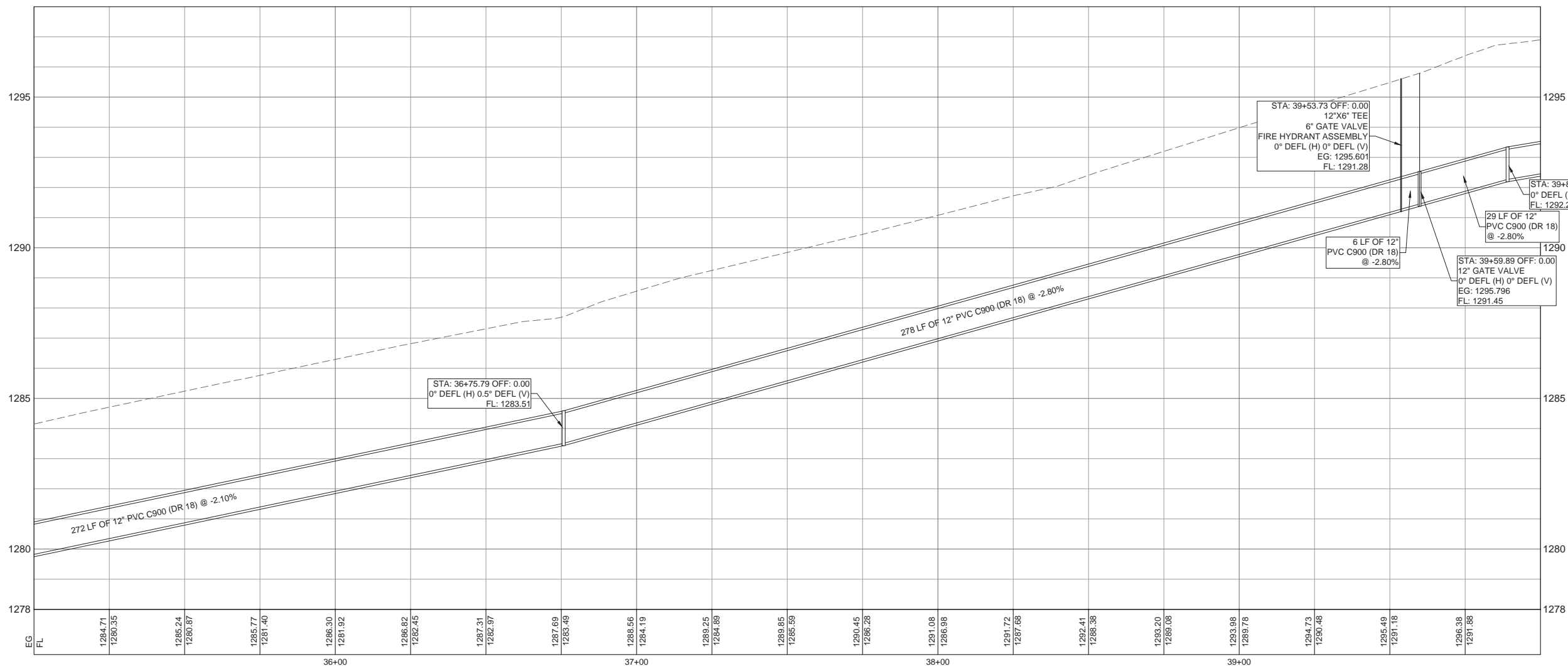


WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4"-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.

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VOL.618/PG.569-O.P.R.B.C.T.

LOT 3
BIG LEAF LTD.



LEGEND
EG = EXISTING GROUND
FL = FLOW LINE



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Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET
6.5

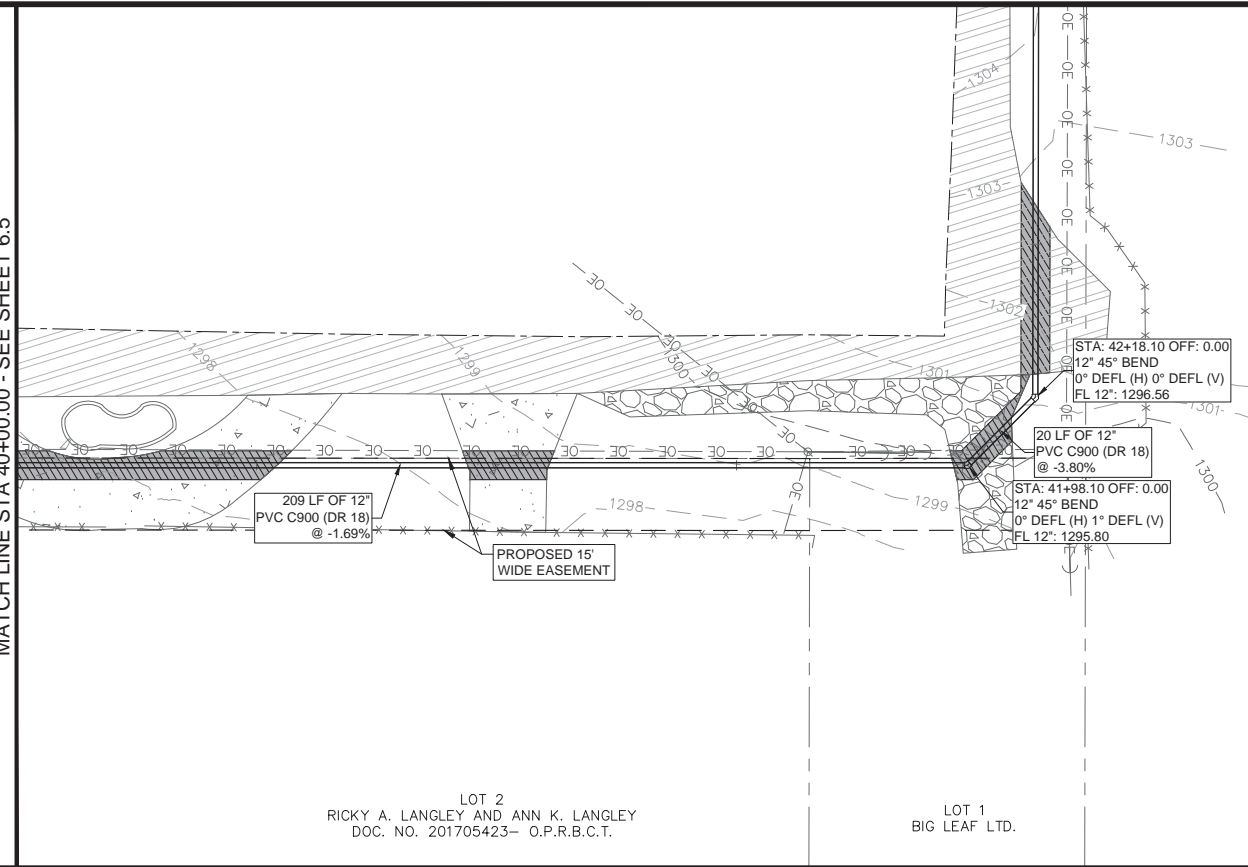
WATER PLAN & PROFILE
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS



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Email: info@kcengineering.com
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Date: Nov 20, 2019, 1:44pm User ID: nathan fuller
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MATCH LINE STA 40+00.00 - SEE SHEET 6.5



300 ACRES
 STATE OF TEXAS
 VOL.608/Pg.19-R.P.R.B.

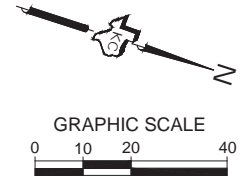
LOT 2
 RICKY A. LANGLEY AND ANN K. LANGLEY
 DOC. NO. 201705423- O.P.R.B.C.T.

LOT 1
 BIG LEAF LTD.

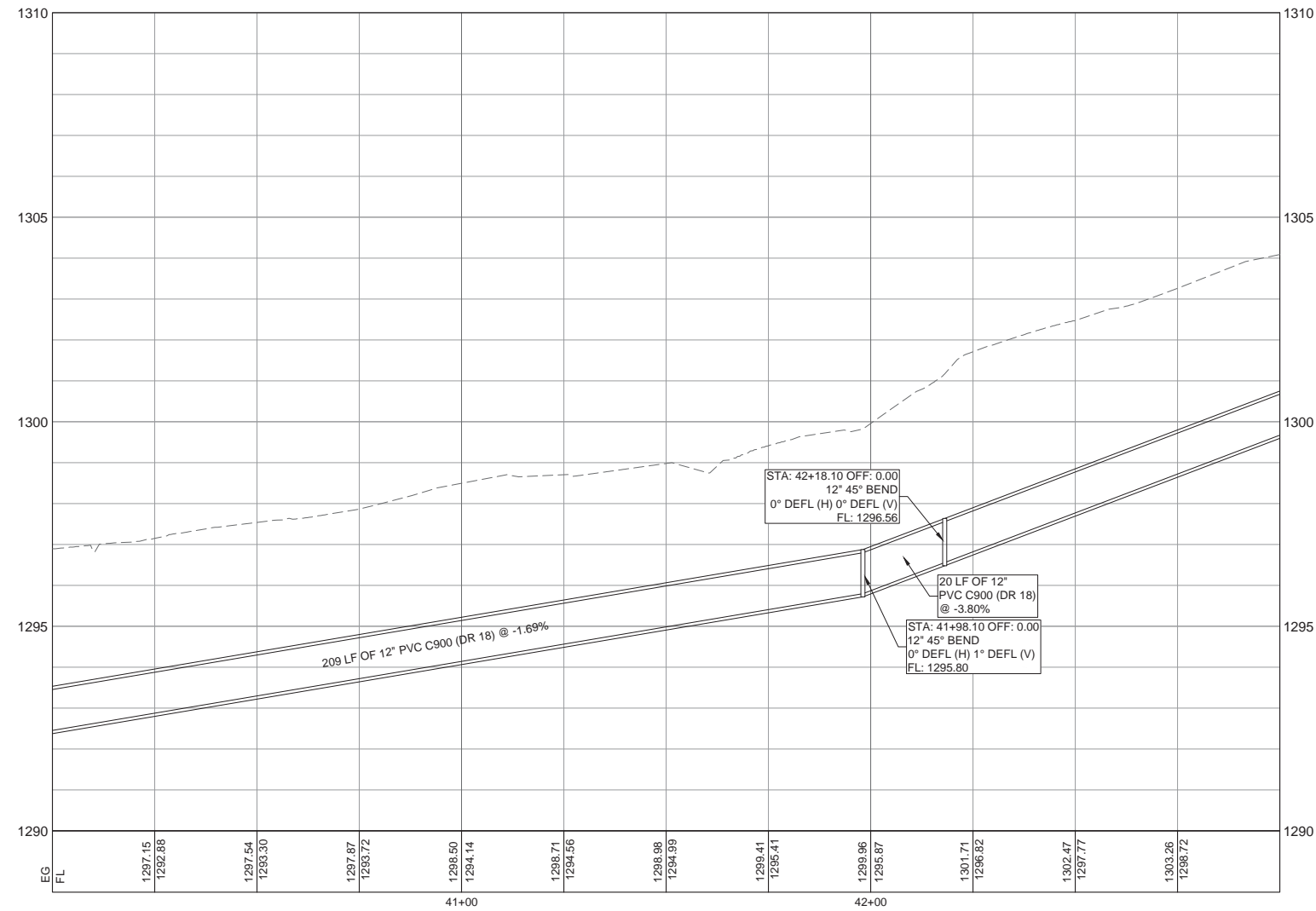
MATCH LINE STA 43+00.00 - SEE SHEET 6.7

WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.



LEGEND
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WATER PLAN & PROFILE
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



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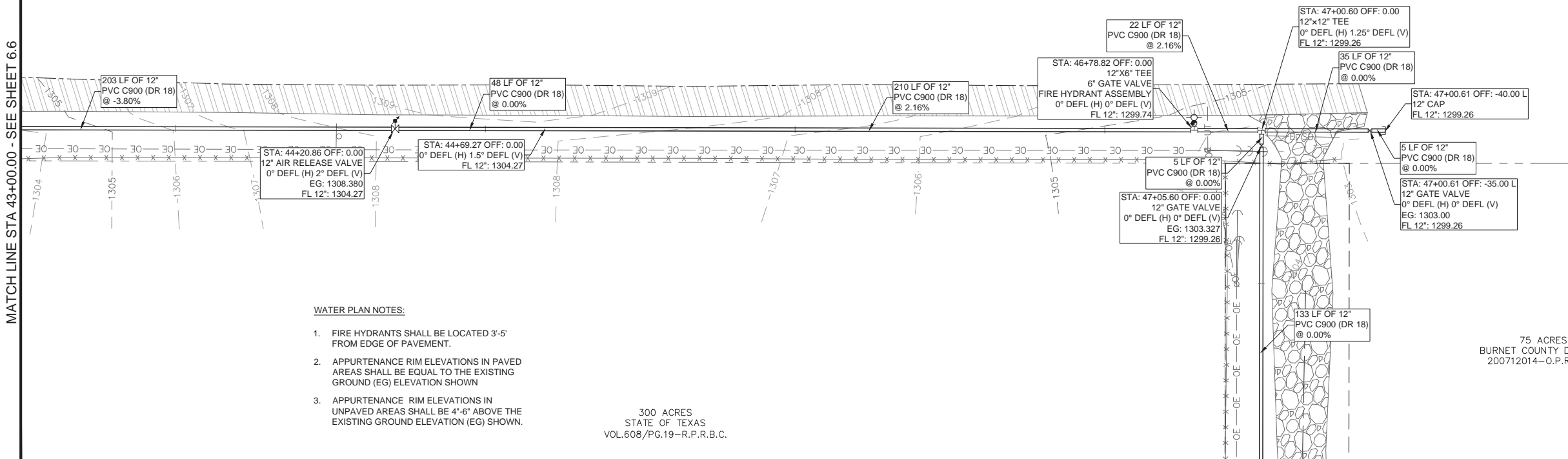
11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET
 6.6

Date: Nov 20, 2019, 1:44pm User ID: nathan.fuller
 File: K:\18-140 City of Burnet - Oak Vista Water Line\Design\Plan Sheets\6.0 WATER PLAN & PROFILE.dwg

MATCH LINE STA 43+00.00 - SEE SHEET 6.6



WATER PLAN NOTES:

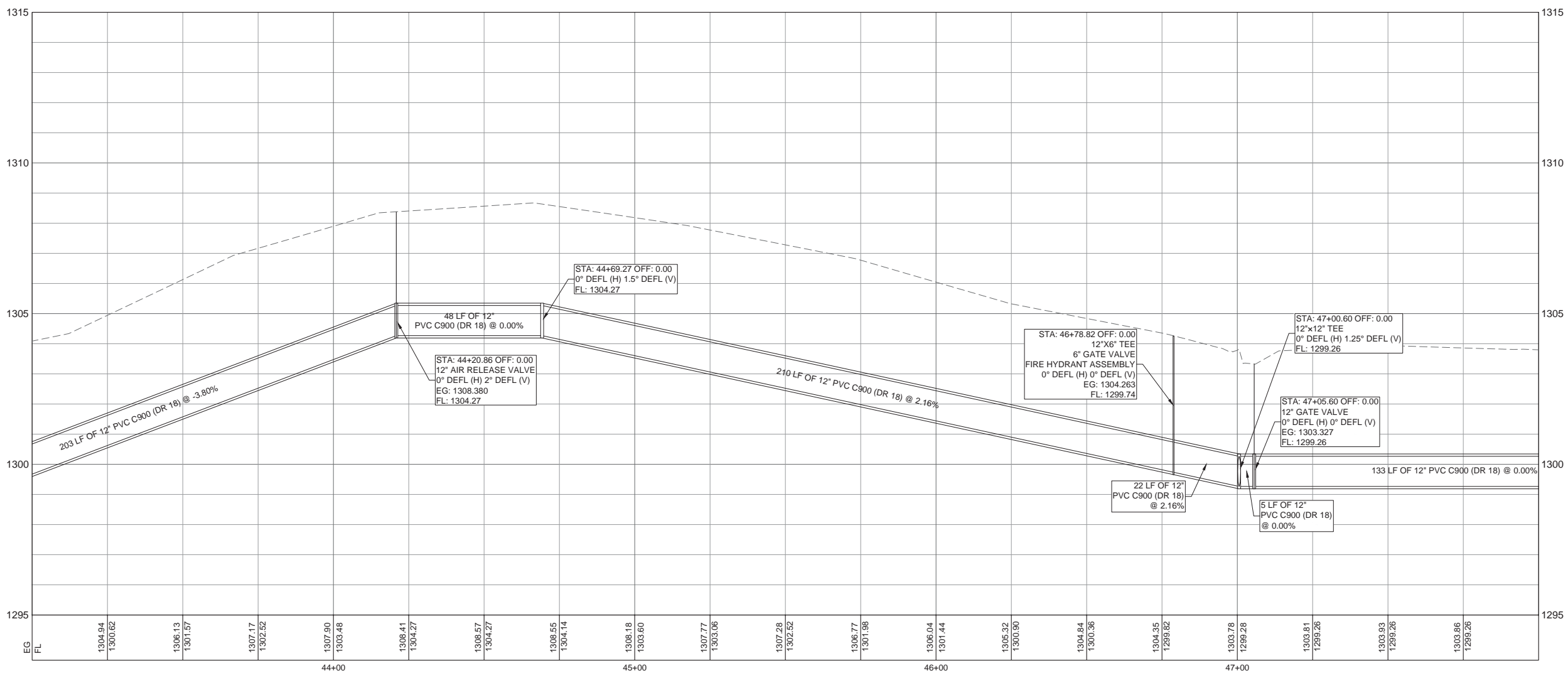
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2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
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300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.

75 ACRES
 BURNET COUNTY TEXAS
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MATCH LINE STA 48+00.00 - SEE SHEET 6.8



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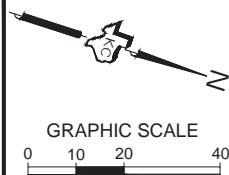
WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



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 11/20/2019

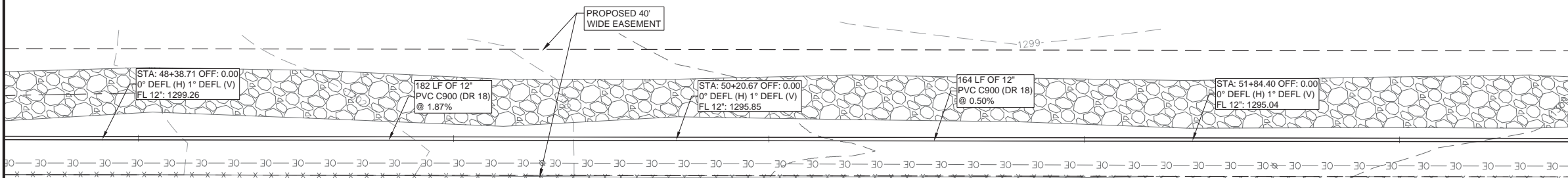
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Date:	Date	Remarks
Rev. No.	Date	Remarks

75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.



MATCH LINE STA 48+00.00 - SEE SHEET 6.7

MATCH LINE STA 53+00.00 - SEE SHEET 6.9



WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
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 STATE OF TEXAS
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WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



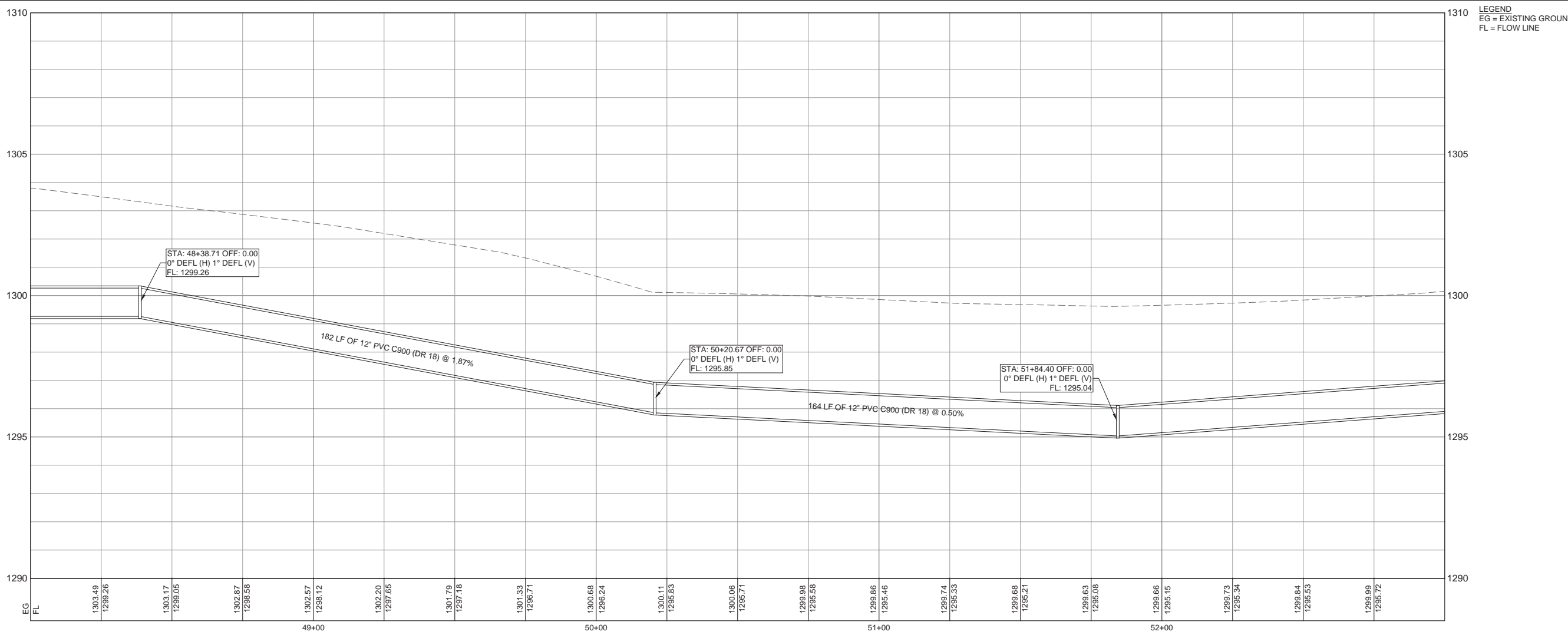
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Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET
6.8

Date: Nov 20, 2019, 1:44pm User ID: nathan.fuller
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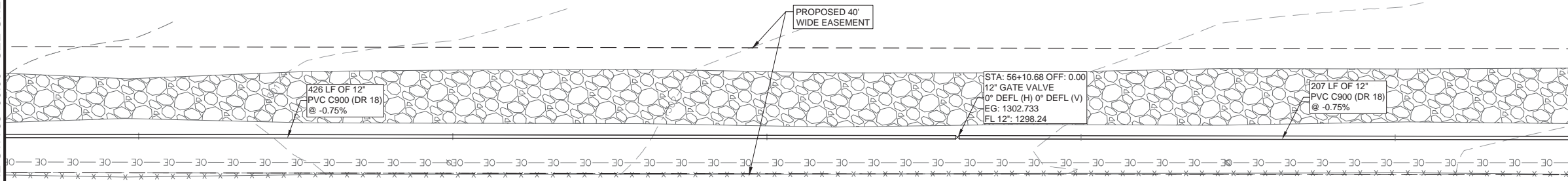
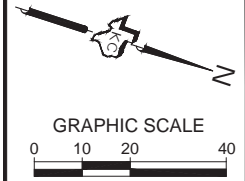


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MATCH LINE STA 53+00.00 - SEE SHEET 6.8

75 ACRES
 BURNET COUNTY DOC. NO.
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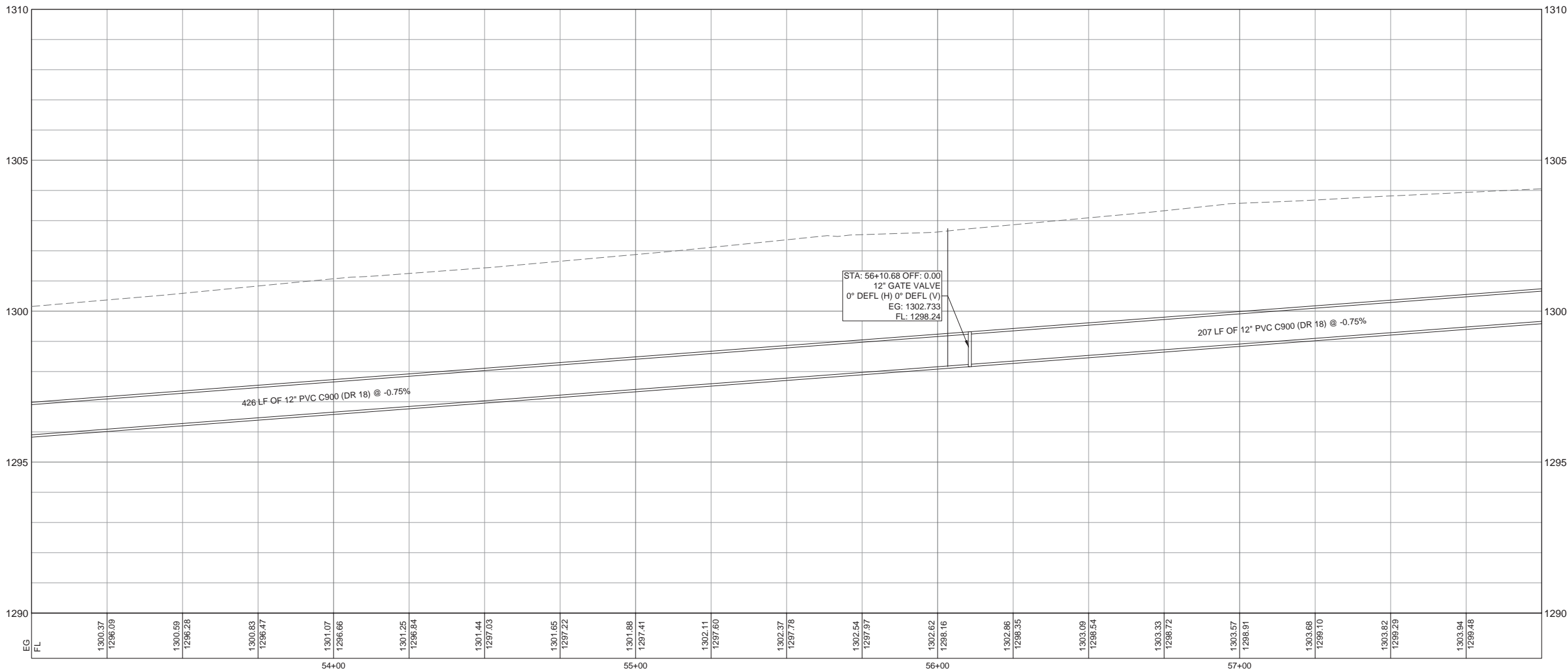
300 ACRES
 STATE OF TEXAS
 VOL.608/PG.19-R.P.R.B.C.



WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
3. APPURTENANCE RIM ELEVATIONS IN UNPAVED AREAS SHALL BE 4'-6" ABOVE THE EXISTING GROUND ELEVATION (EG) SHOWN.

MATCH LINE STA 58+00.00 - SEE SHEET 6.10



LEGEND
 EG = EXISTING GROUND
 FL = FLOW LINE

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WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS

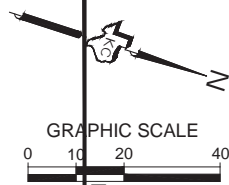


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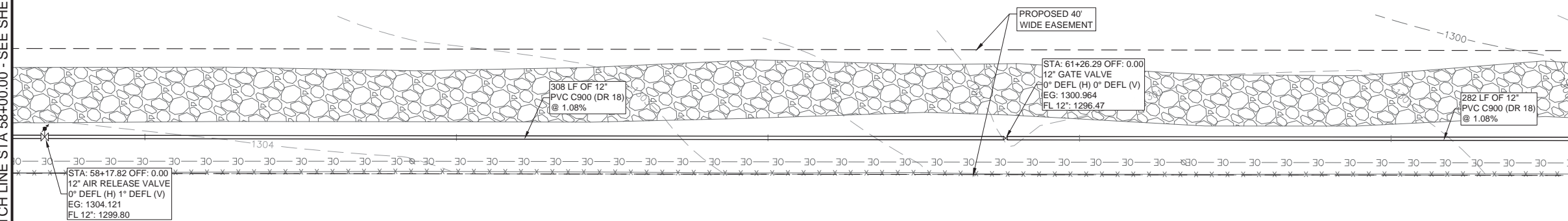
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Date:	Checked By: DMS
Rev. No.	Drawn By: NTF
	Date
	Remarks

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MATCH LINE STA 58+00.00 - SEE SHEET 6.9

MATCH LINE STA 63+00.00 - SEE SHEET 6.11

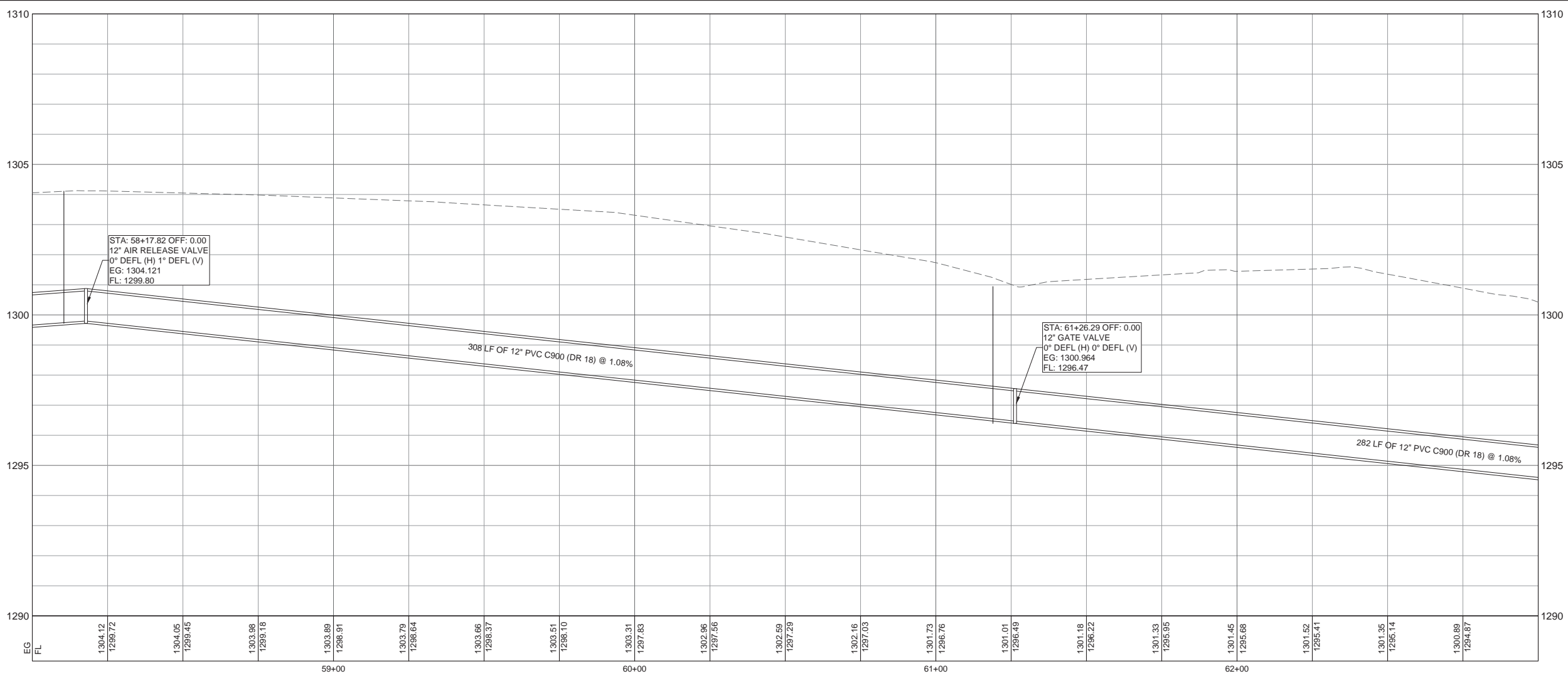


300 ACRES
STATE OF TEXAS
VOL.608/PG.19-R.P.R.B.C.

WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
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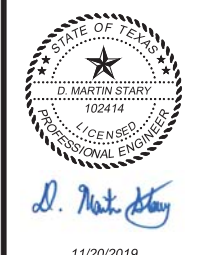
LEGEND
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WATER PLAN & PROFILE
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS

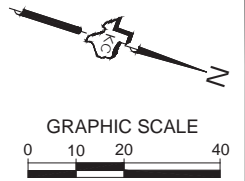


Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
Rev. No.	Date	Remarks

SHEET
6.10

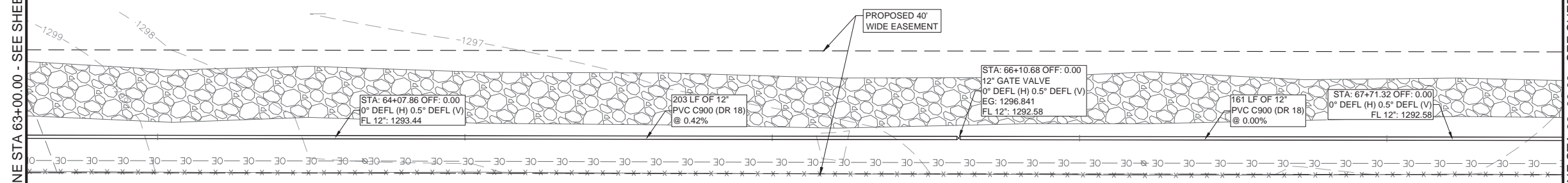
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BURNET COUNTY DOC. NO.
200712014-O.P.R.B.C.T.



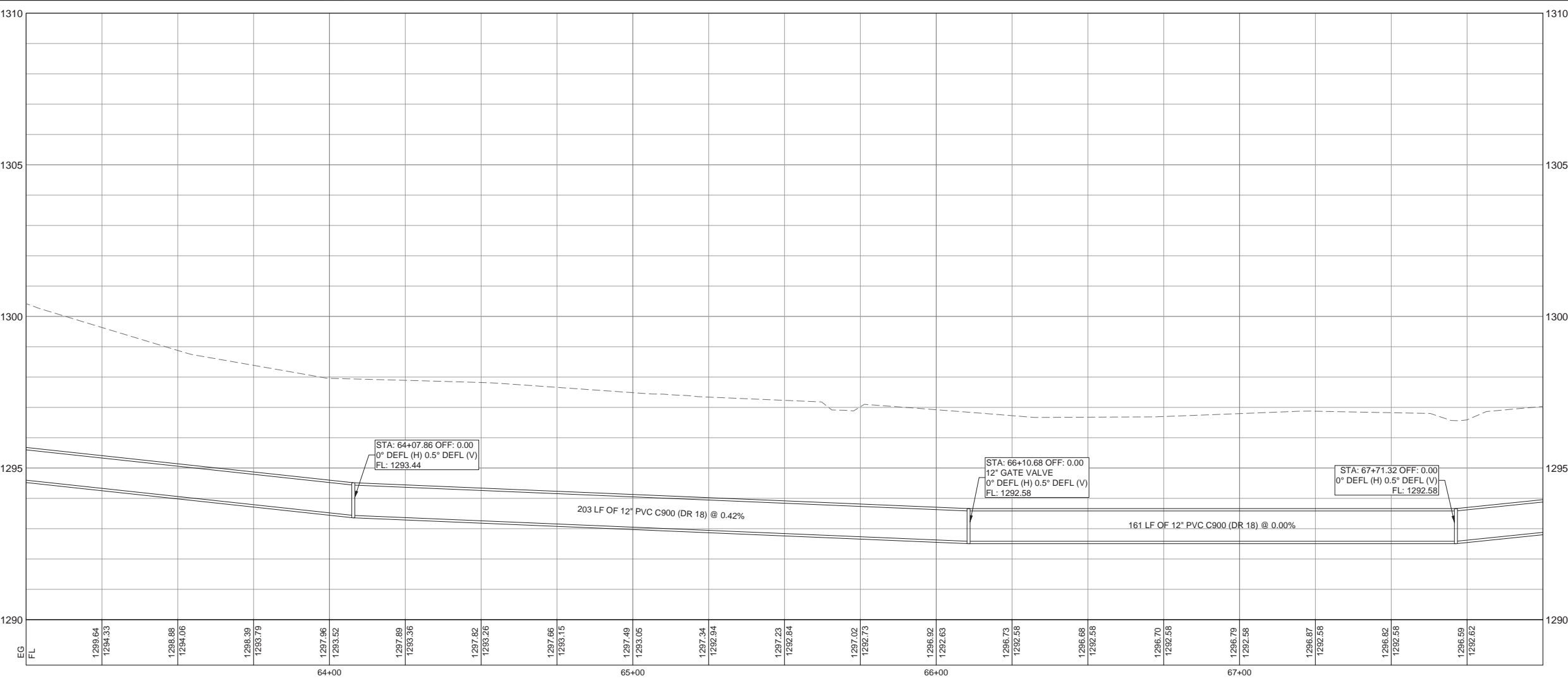
MATCH LINE STA 63+00.00 - SEE SHEET 6.10

MATCH LINE STA 68+00.00 - SEE SHEET 6.12



300 ACRES
STATE OF TEXAS
VOL.608/PG.19-R.P.R.B.C.

- WATER PLAN NOTES:**
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WATER PLAN & PROFILE
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS



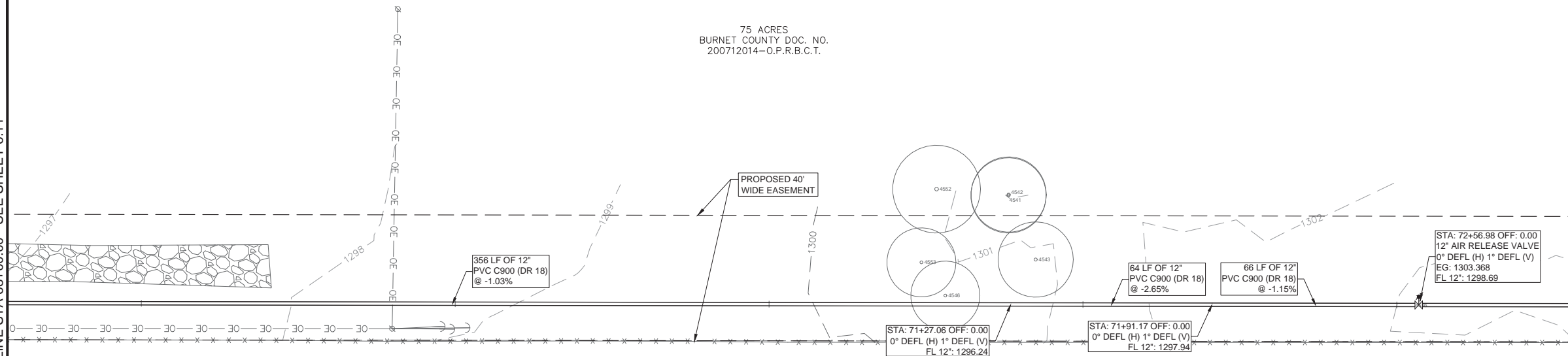
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Rev. No.	Date	Remarks

SHEET
6.11

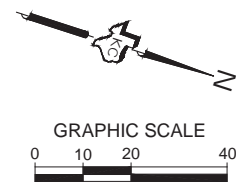
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Date: Nov 20, 2019, 1:45pm User ID: nathan.fuller
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MATCH LINE STA 68+00.00 - SEE SHEET 6.11



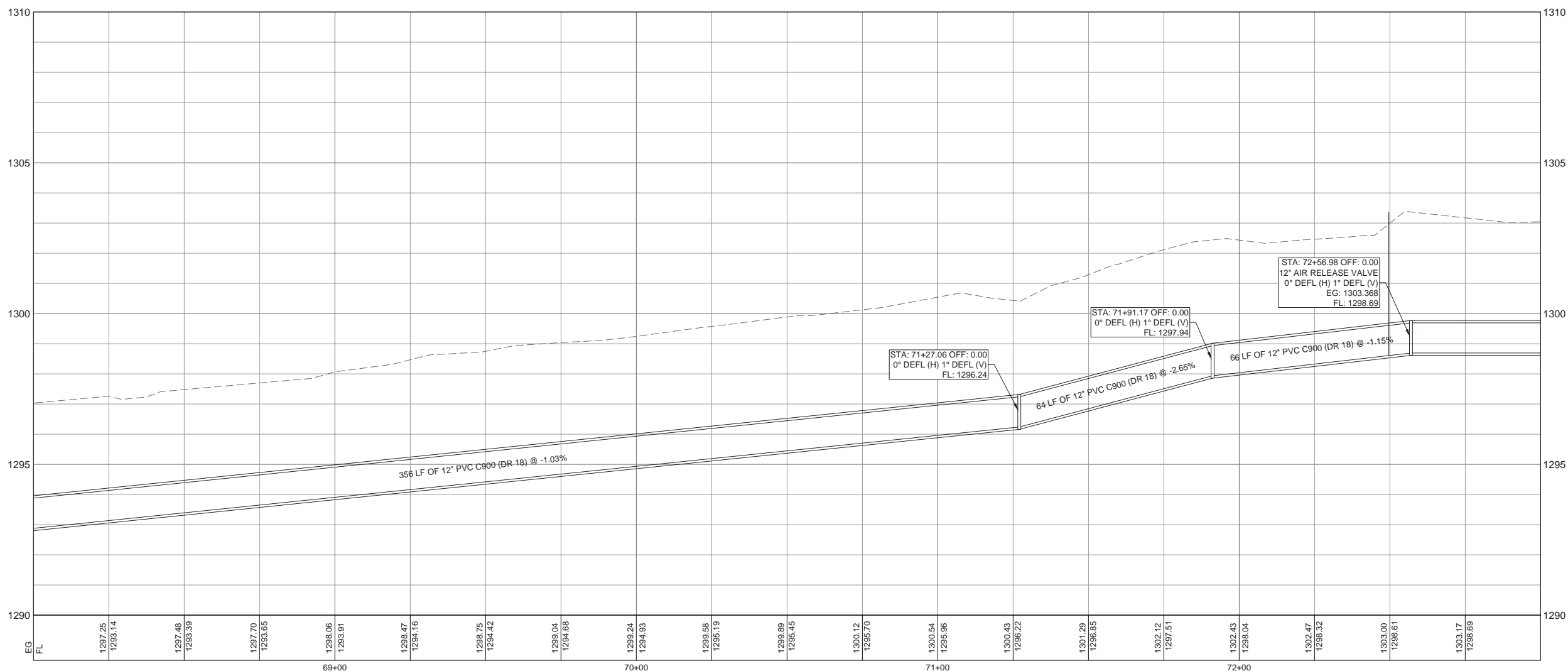
MATCH LINE STA 73+00.00 - SEE SHEET 6.13



300 ACRES
 STATE OF TEXAS
 VOL.608/Pg.19--R.P.R.B.C.

WATER PLAN NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
2. APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
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WATER PLAN & PROFILE
 OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



D. Martin Stary

11/20/2019

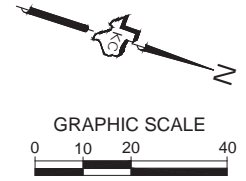
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Rev. No.	Date	Remarks

SHEET
 6.12

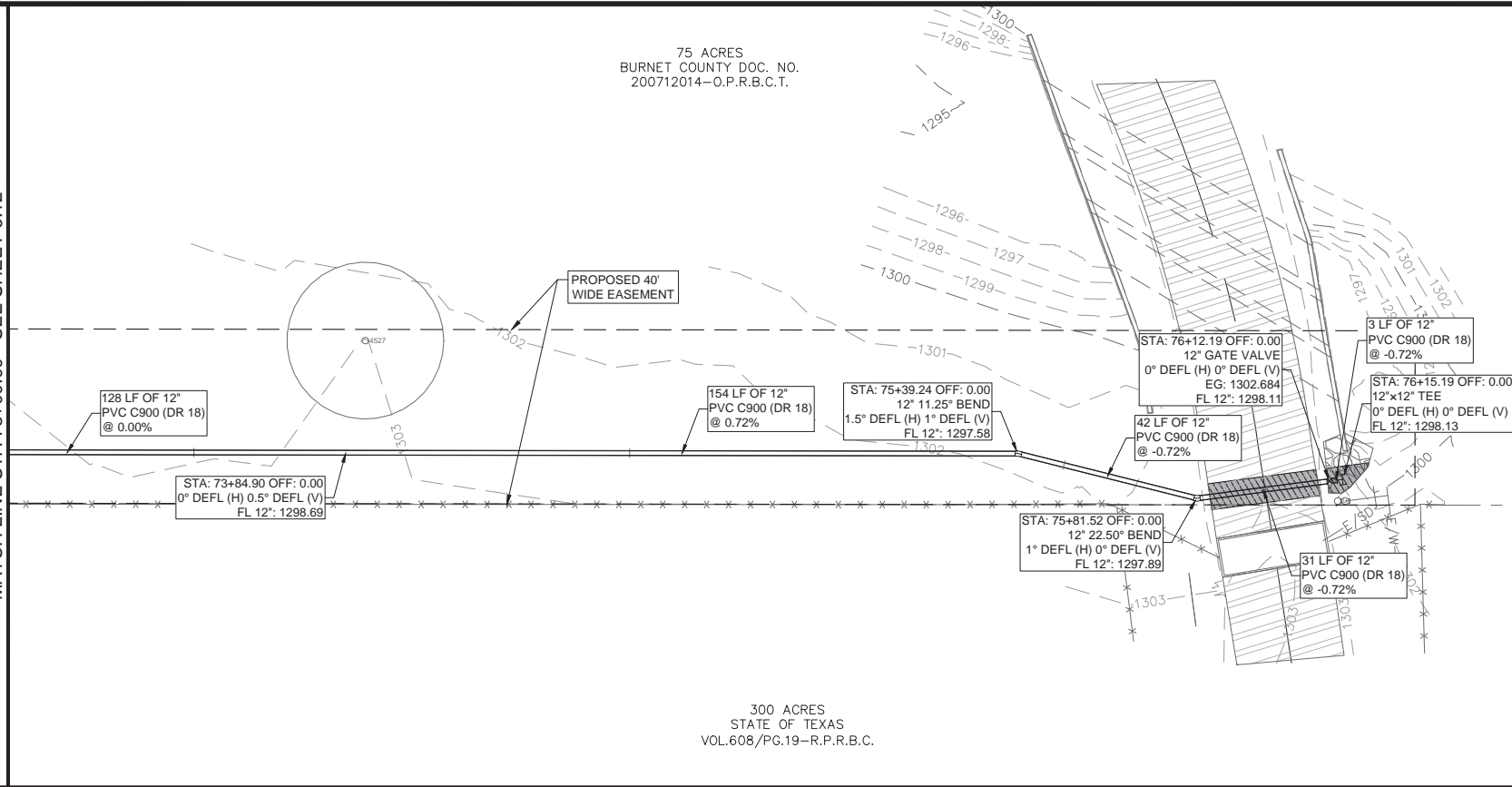
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75 ACRES
 BURNET COUNTY DOC. NO.
 200712014-O.P.R.B.C.T.

300 ACRES
 STATE OF TEXAS
 VOL.608/P.G.19-R.P.R.B.C.

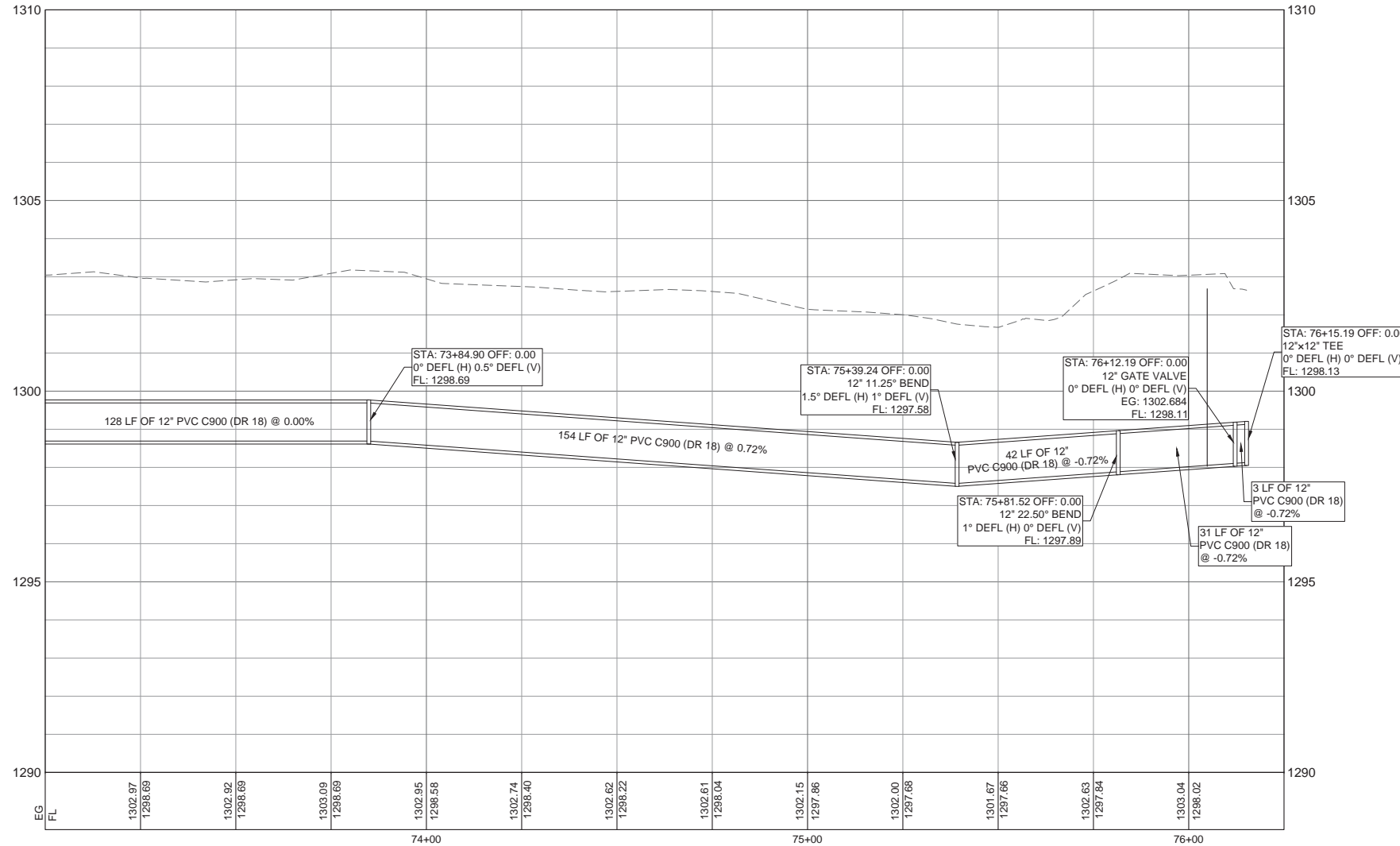


MATCH LINE STA 73+00.00 - SEE SHEET 6.12



- WATER PLAN NOTES:**
- FIRE HYDRANTS SHALL BE LOCATED 3'-5' FROM EDGE OF PAVEMENT.
 - APPURTENANCE RIM ELEVATIONS IN PAVED AREAS SHALL BE EQUAL TO THE EXISTING GROUND (EG) ELEVATION SHOWN
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LEGEND
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 REGISTRATION # F-000977



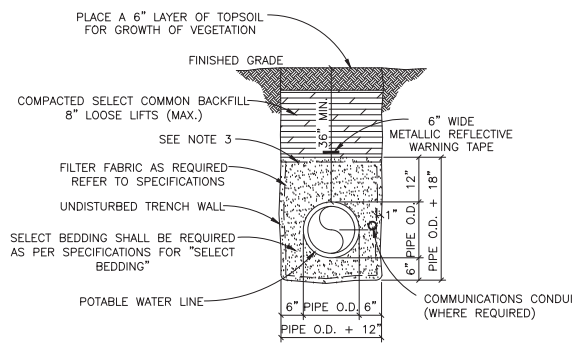
WATER PLAN & PROFILE
OAK VISTA WATER LINE
 CITY OF BURNET
 BURNET, TEXAS



D. Martin Stary

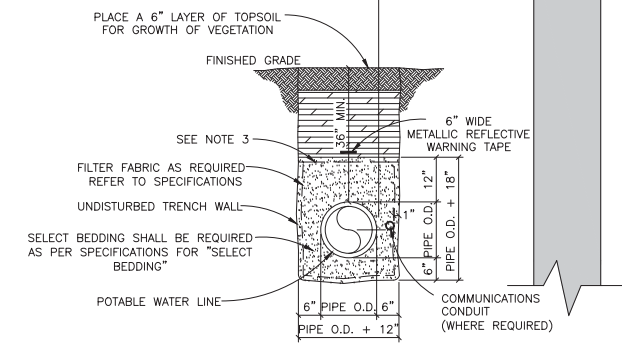
11/20/2019

Job No. 18-148	Scale (Hor.): AS NOTED	Scale (Vert.): AS NOTED
Date:	Checked By: DMS	Drawn By: NTF
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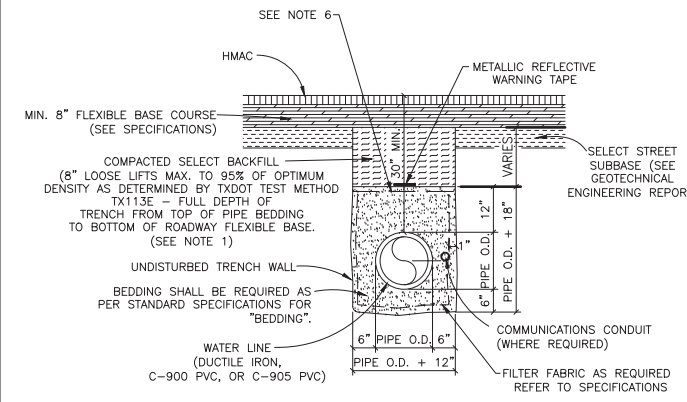
- NOTES:**
1. ALL CONDUIT TO INCLUDE A 1500 LB CONTINUOUS MULE TAPE IN PLACE BETWEEN PULL BOXES.
 2. ALL INSTALLED CONDUITS MUST PASS A PULL TEST WITH A FULL SIZED MANDREL.
 3. FILTER FABRIC ALONG THE TOP OF THE TRENCH IS REQUIRED REGARDLESS OF SUBSURFACE CONDITIONS.

TRENCH AND EMBEDMENT DETAIL UNDER NON-PAVED AREAS



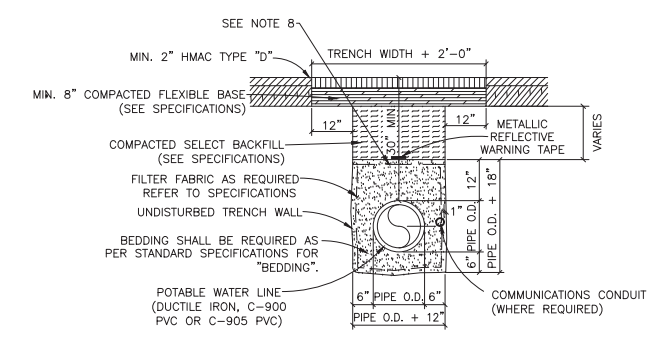
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TRENCH AND EMBEDMENT DETAIL UNDER NON-PAVED AREAS



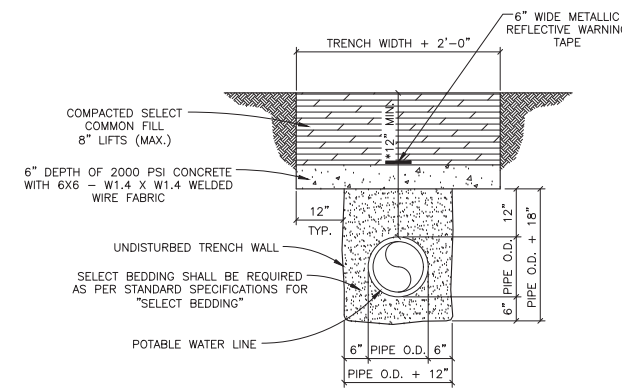
- NOTES:**
1. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY TWO HUNDRED (200) FEET FOR EACH EIGHT (8) INCH LIFT OF SELECT BACKFILL. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY OR THE PERMITTEE'S CONSULTANTS. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO THE OWNER. BACKFILL COMPACTON SHALL BE A MINIMUM 95% OF OPTIMUM DENSITY AS DETERMINED BY TXDOT 113E TEST METHOD.
 2. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.
 3. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE, FLEXIBLE BASE AND PAVEMENT REQUIREMENTS.
 4. ALL COMMUNICATION CONDUIT TO INCLUDE A 1500 LB CONTINUOUS MULE TAPE IN PLACE BETWEEN PULL BOXES.
 5. ALL INSTALLED CONDUITS MUST PASS A PULL TEST WITH A FULL SIZED MANDREL.
 6. FILTER FABRIC ALONG THE TOP OF THE TRENCH IS REQUIRED REGARDLESS OF SUBSURFACE CONDITIONS.

TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY



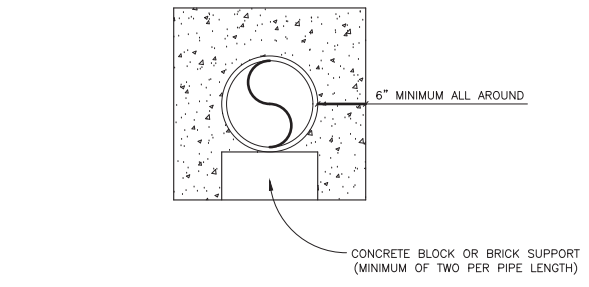
- NOTES:**
1. REPLACED BASE MATERIAL OVER DITCH SHALL BE A MINIMUM OF TWICE THE THICKNESS OF THE ORIGINAL BASE AND IN NO CASE LESS THAN 8"
 2. BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS AND EACH LIFT COMPACTED TO SPECIFIED DENSITY.
 3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
 4. A MINIMUM OF ONE DENSITY TEST SHALL BE TAKEN EVERY TWO HUNDRED (200) FEET FOR EACH EIGHT (8) INCH LOOSE LIFT OF SUBGRADE AND EACH OPEN CUT CROSSING. ADDITIONAL TESTS MAY BE REQUIRED AT THE ENGINEER'S DISCRETION. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO THE OWNER.
 5. CONTRACTOR OR ENGINEER MAY REQUEST FOR USE OF ALTERNATE BACKFILL MATERIAL. ALTERNATE MATERIALS AND TESTING PROTOCOL MUST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.
 6. ALL COMMUNICATION CONDUIT TO INCLUDE A 1500 LB CONTINUOUS MULE TAPE IN PLACE BETWEEN PULL BOXES.
 7. ALL INSTALLED CONDUITS MUST PASS A PULL TEST WITH A FULL SIZED MANDREL.
 8. FILTER FABRIC ALONG THE TOP OF THE TRENCH IS REQUIRED REGARDLESS OF SUBSURFACE CONDITIONS.

TRENCH AND EMBEDMENT AND PAVEMENT REPLACEMENT DETAIL UNDER EXISTING ROADWAY



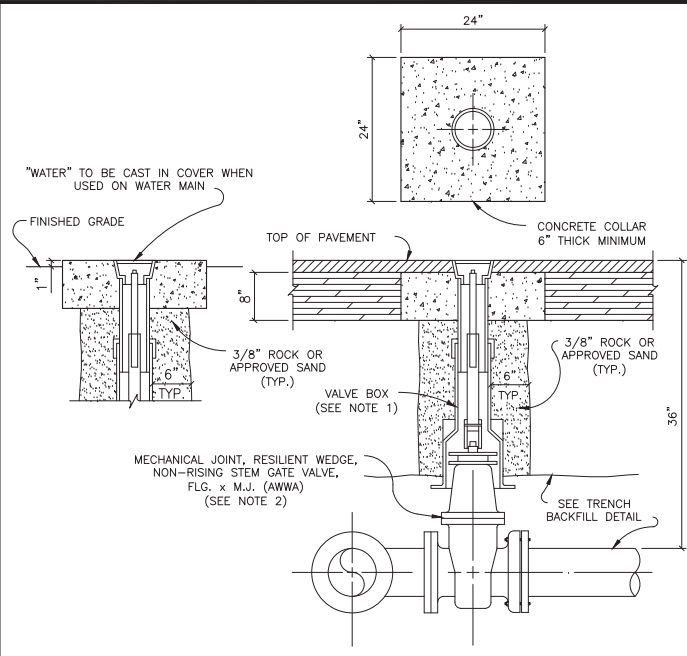
* WHERE 30" MINIMUM COVER CAN NOT BE OBTAINED OR DUE TO POTENTIAL SURFACE LOADING THE CITY MAY REQUIRE A CAP TO BE INSTALLED.

CONCRETE TRENCH CAP DETAIL



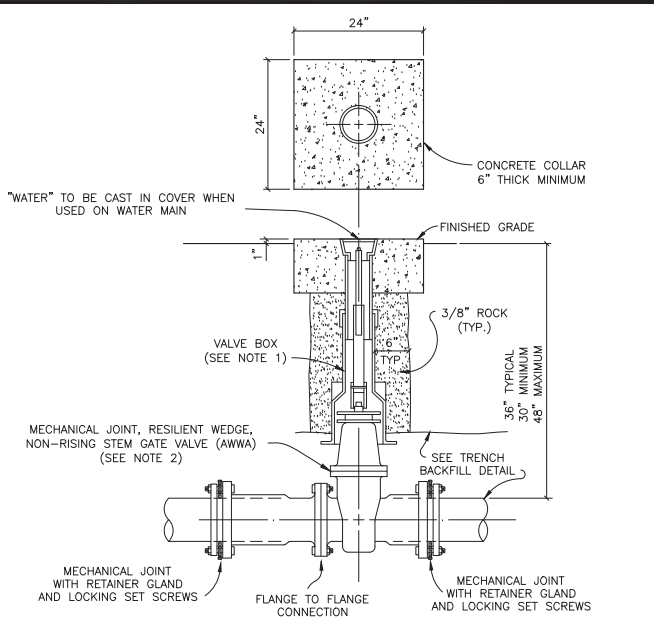
- NOTES:**
1. ENCASEMENT TO BE CONSTRUCTED WHERE SEWER LINES PASS OVER OR UNDER A WATER MAIN WITH LESS THAN EIGHTEEN INCHES (18") CLEAR DISTANCE.
 2. AT CROSSINGS, ENCASEMENT SHALL EXTEND TEN FEET (10'-0") ON EITHER SIDE OF CROSSING.
 3. BEGINNING AND ENDING OF ENCASEMENTS SHALL NOT BE MORE THAN SIX INCHES (6") FROM A PIPE JOINT.
 4. WHERE WATER AND SEWER LINES PARALLEL WITH LESS THAN TEN FEET (10'-0") HORIZONTAL CLEAR DISTANCE, NO ENCASEMENT IS REQUIRED IF BOTH LINES ARE 150 PSI PRESSURE PIPE.
 5. RAW WATER MAINS SHALL BE 150 PSI PRESSURE RATED WHEN PARALLELING POTABLE WATER MAINS WITH LESS THAN TEN FEET (10'-0") HORIZONTAL CLEARANCE.
 6. WHERE MINIMUM COVER, THIRTY INCHES (30") IS NOT AVAILABLE, ENCASEMENT WILL BE REQUIRED.
 7. ALL CONCRETE ENCASEMENTS MUST BE FORMED AND INSPECTED BY THE CITY OF MARBLE FALLS INSPECTOR PRIOR TO PLACING CONCRETE AND BACKFILLING.
 8. CONCRETE SHALL BE FLOWABLE FILL HAVING A STRENGTH BETWEEN 300 TO 500 PSI.

CONCRETE ENCASEMENT DETAIL



- NOTES:**
1. VALVE BOX SHALL BE AMERICAN FLOW CONTROL TRENCH ADAPTER OR APPROVED EQUAL HAVING AN ADJUSTABLE RANGE OF + OR - 6 INCHES FROM INSTALLED FINISH GRADE.
 2. ACCEPTABLE GATE VALVES ARE:
 - A. AMERICAN FLOW CONTROL - SERIES 2500
 - B. MUELLER - 2360 SERIES
 - C. CLOW

TYPICAL WATER VALVE SETTING



- NOTES:**
1. VALVE BOX SHALL BE AMERICAN FLOW CONTROL TRENCH ADAPTER OR APPROVED EQUAL HAVING AN ADJUSTABLE RANGE OF + OR - 6 INCHES FROM INSTALLED FINISH GRADE.
 2. ACCEPTABLE GATE VALVES ARE:
 - A. AMERICAN FLOW CONTROL - SERIES 2500
 - B. MUELLER - 2360 SERIES
 - C. CLOW

INLINE WATER VALVE INSTALLATION

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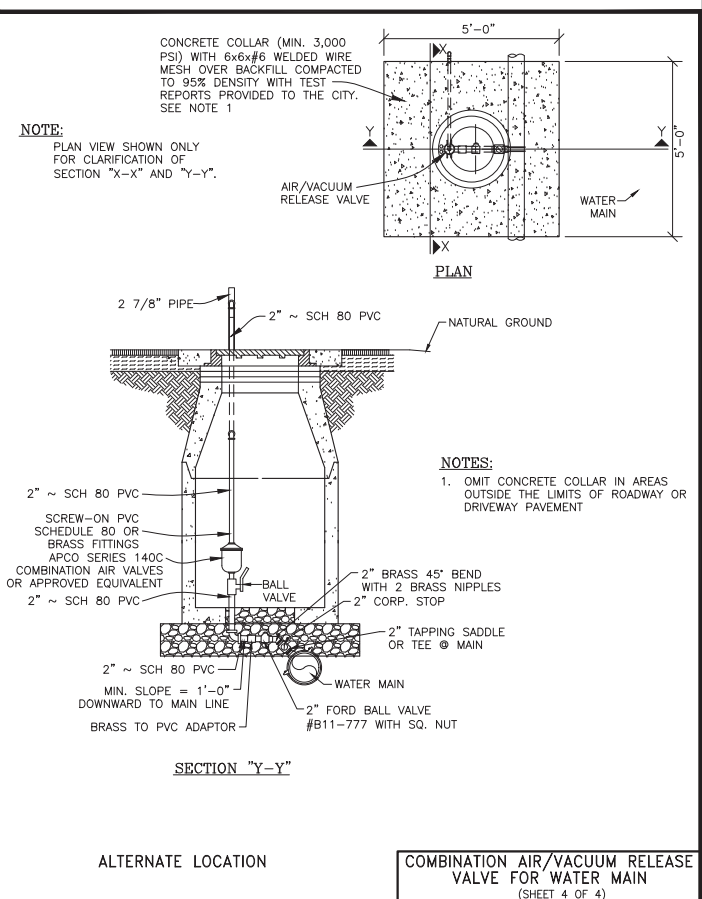
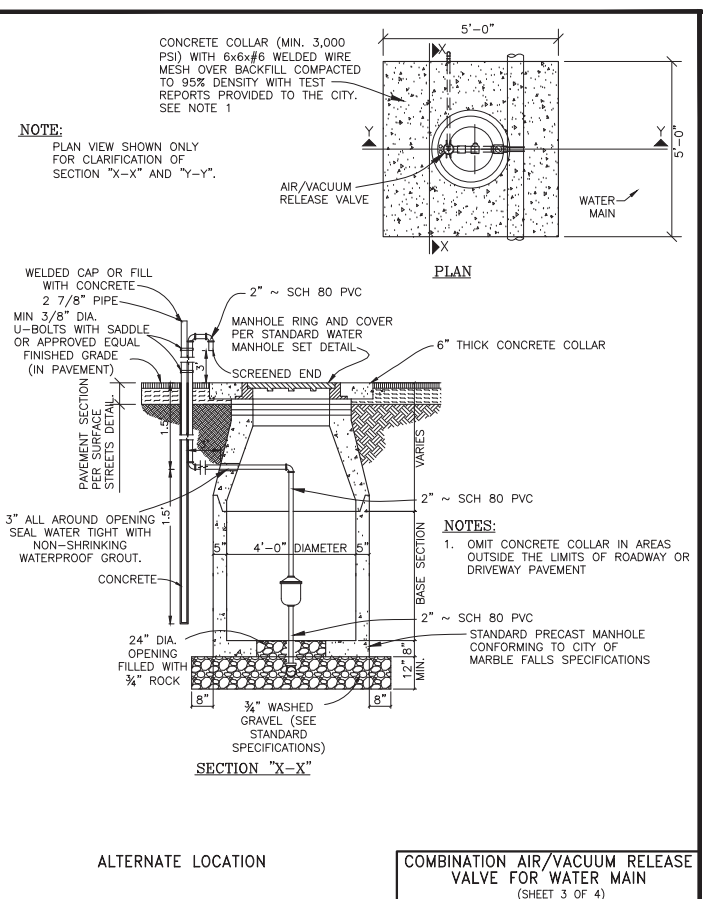
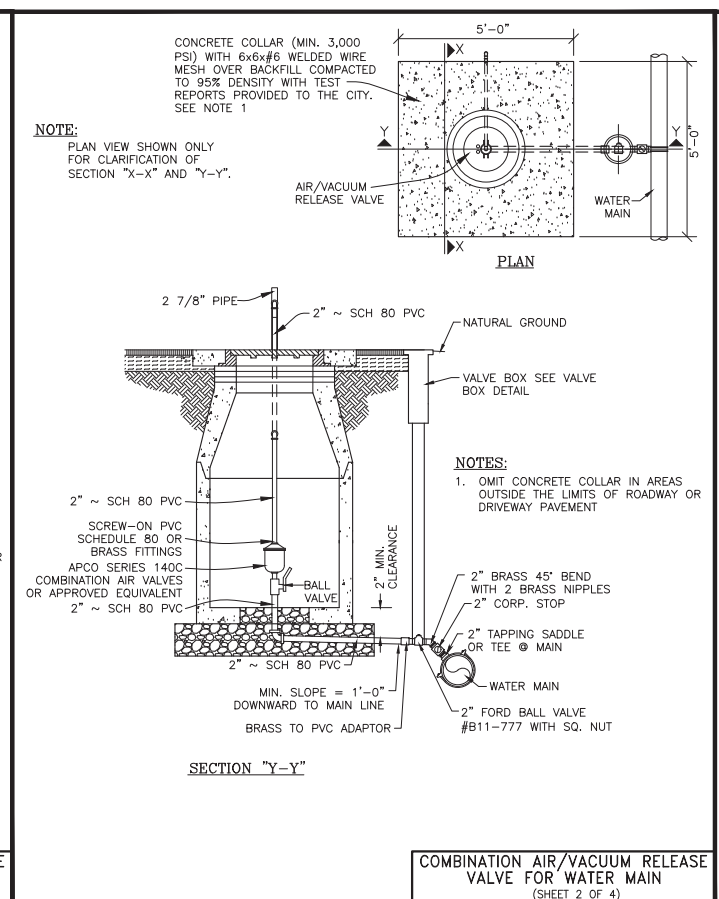
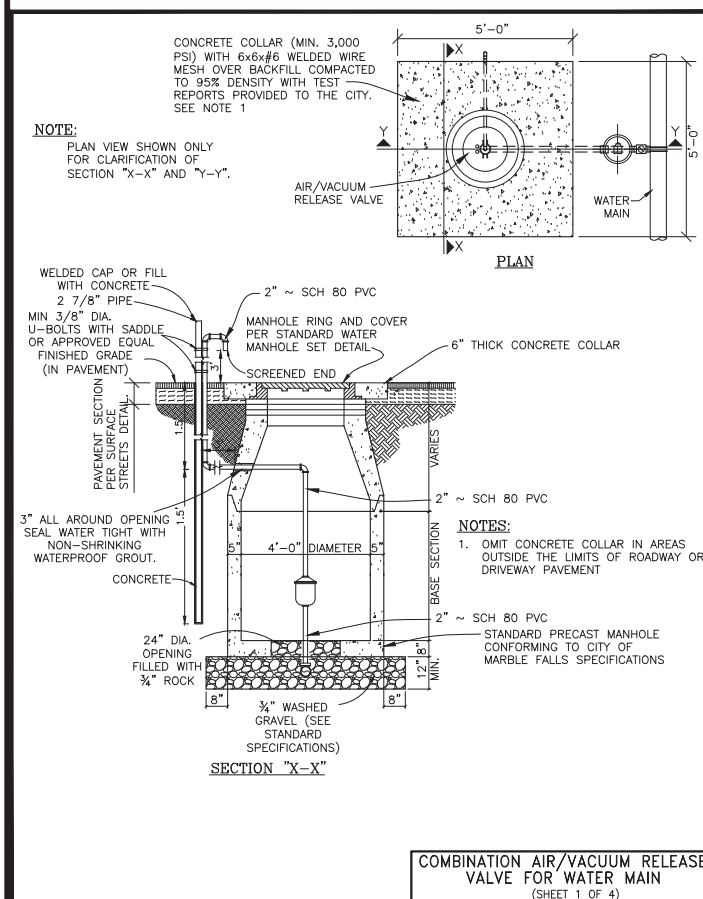
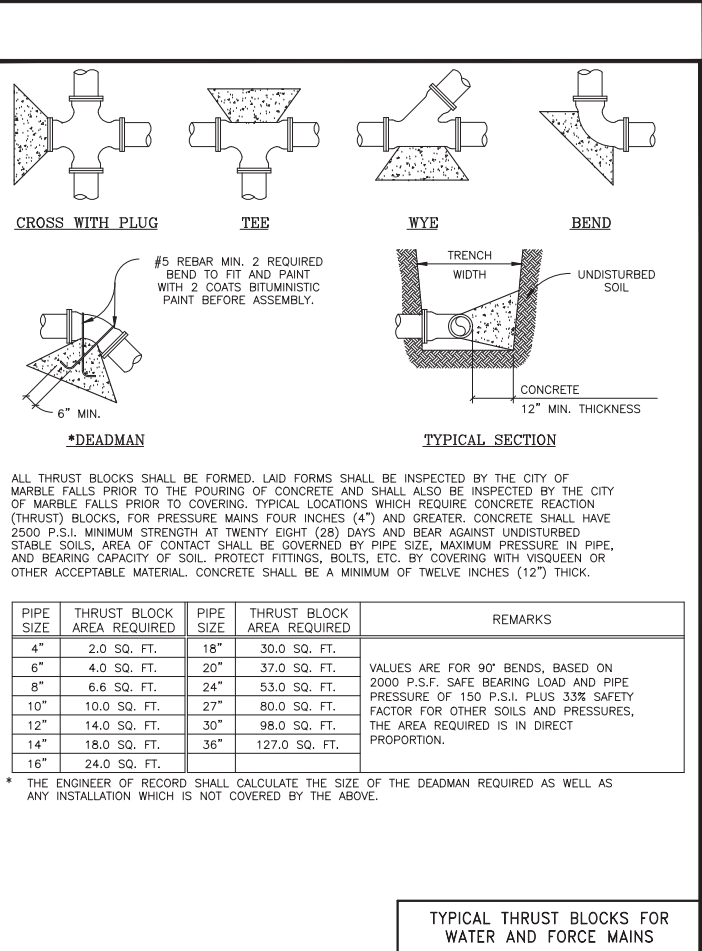
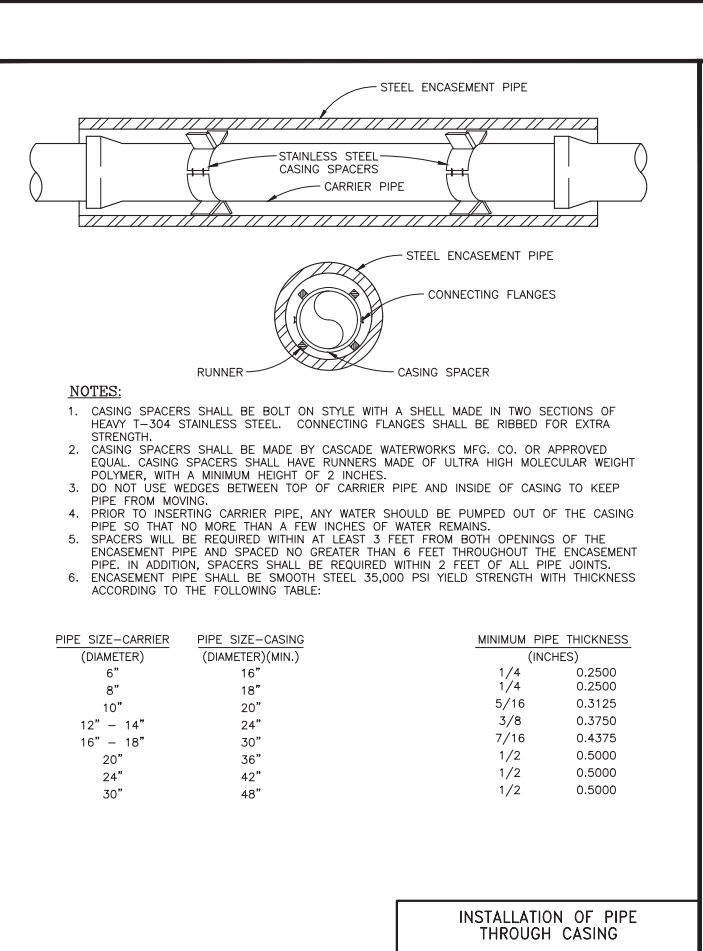
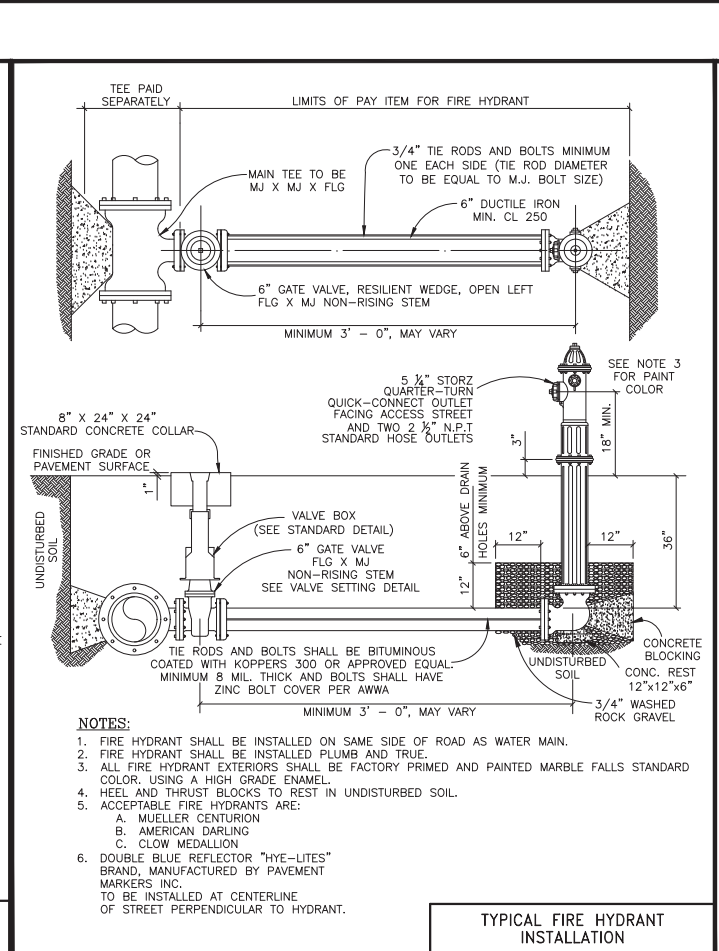
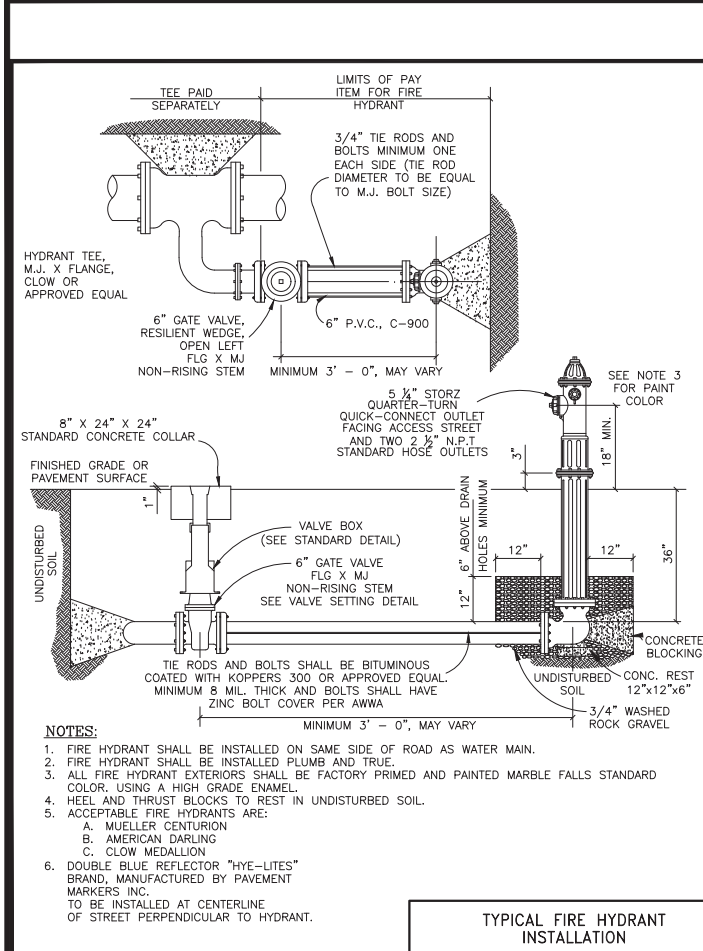
K.C. ENGINEERING, INC.
CONSULTING ENGINEERS
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MARBLE FALLS, TEXAS 78654
OFFICE: 830-693-5635 FAX: 830-693-9664
Email: info@kcengineering.com
REGISTRATION # F-000977



WATER DETAILS
OAK VISTA WATER LINE
CITY OF BURNET
BURNET, TEXAS

STATE OF TEXAS
D. MARTIN STARY
102414
LICENSED PROFESSIONAL ENGINEER
D. Martin Stary
11/20/2019

Job No.	Scale (Hor.): AS NOTED	Scale (Ver.): AS NOTED	Drawn By: NTF
18-148			
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WATER DETAILS
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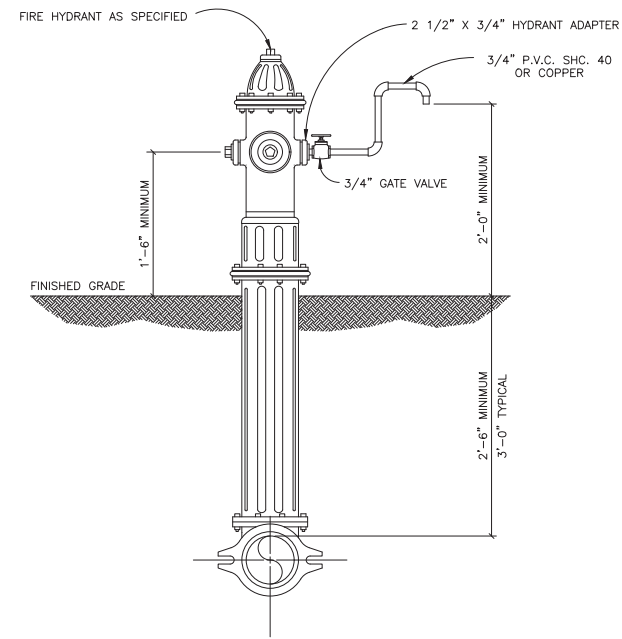
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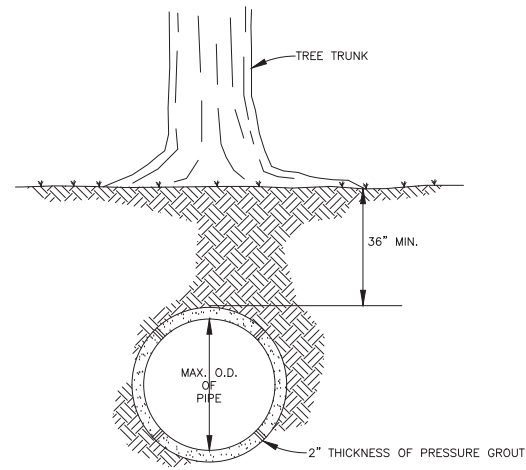
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SHEET 7.1

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FIRE HYDRANT SAMPLING POINT



BORE & PRESSURE GROUT UNDER TREE
 SCALE: N.T.S.

NOTE:

1. IF BORE IS THROUGH ROCK MATERIAL, BOTTOM OF PIPE BARREL SHALL BE SUPPORTED OFF BOTTOM WITH MORTAR BANDS ON C.S.G. PIPE OR STAINLESS STEEL CASING SPACERS ON D.I. OR PVC PIPE. IF BORE IS THROUGH DIRT MATERIAL, CLEAN BOTTOM OF BORE PIT TO REMOVE ROCKS PRIOR TO INSTALLING PIPE.

BORE & PRESSURE GROUT UNDER TREE



D. Martin Stary

11/20/2019

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