

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Sheets\GNCV\PUBLIC WATER\C_TTL_WTR_81450.dwg
DATE: Aug 19, 2019 6:48am
XREFS: t_pbase_81450 C_TBLK_22x34_81450 V_XBOU_81450 V_TOPO_81450 USER: thill

LEGEND

▲CTL	SURVEY CONTROL POINT	⊞	TRAFFIC SIGNAL BOX
▲	SURVEY BENCHMARK	⊙	TRAFFIC SIGNAL MANHOLE
▲TBM	SURVEY TEMPORARY BENCHMARK	⊙-⊙	TRAFFIC SIGNAL POLE W/ ARM
⊞M	GAS METER	⊞	TRAFFIC SIGNAL POLE
⊞GAR	GAS RISER	⊞	TRAFFIC SIGNAL CONTROL BOX
⊙	GAS MANHOLE	⊞	TRAFFIC SIGNAL PEDESTAL
⊞GR	GAS REGULATOR	⊞	ELECTRIC MANHOLE
⊞TP	TELEVISION PEDESTAL	⊞M	ELECTRIC METER
⊞	FIBER BOX	⊞ER	ELECTRIC RISER
⊞	FIBER PEDESTAL	⊞	ELECTRIC BOX
⊞	CABLE BOX	⊞	ELECTRIC CABINET
⊞V	CABLE VAULT	⊞	ELECTRIC JUNCTION BOX
⊞P	TELEPHONE PEDESTAL	⊞SPH	SPRINKLER HEAD
⊞	STORM MANHOLE	⊞SCV	SPRINKLER CONTROL VALVE
⊞	STORM GRATE	⊞	WATER METER PIT
⊞	SANITARY MANHOLE	⊞	FIRE HYDRANT
⊞YL	YARD LIGHT	⊞WM	WATER METER
⊞LTP	LIGHT POLE	⊞WV	WATER VALVE
⊞	POWER POLE	⊞FP	FLAG POLE
⊞LPPP	POWER POLE W/ LIGHT	⊞	SIGN
⊞	GUY WIRE	⊞	BOLLARD
⊞	STUMP	⊞	WOOD POST
⊞	BUSH	⊞	STEEL POST
⊞	EVERGREEN TREE	⊞COL	COLUMN
⊞	DECIDUOUS TREE	⊞	BORE HOLE

---	SECTION LINE
---	PROPERTY LINE
---	CENTER LINE
---	PROPOSED ROW LINE
---	EXISTING ROW LINE
---	UTILITY EASEMENT
---	EXISTING CONTOUR
---	EXISTING CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	EXISTING TELEPHONE LINE
---	EXISTING SANITARY LINE
---	EXISTING STORM LINE
---	EXISTING GAS LINE
---	EXISTING WATER LINE
---	EXISTING CHAIN LINK FENCE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING PIPE LINE
---	GRADING LIMITS
---	TEMPORARY CONSTRUCTION EASEMENT
---	PROPOSED UTILITY OVERHEAD EASEMENT
---	PROPOSED PERMANENT DRAINAGE EASEMENT
---	PROPOSED CHAIN LINK FENCE
---	PROPOSED WOOD PRIVACY FENCE
---	EXISTING TREELINE

ABBREVIATION TABLE

M.G.	MATCH GRADE
BOC	BACK OF CURB
EOP	EDGE OF PAVEMENT
R/W	RIGHT-OF-WAY
D/E	DRAINAGE EASEMENT
S/E	SANITARY EASEMENT
S/W	SIDEWALK
TCE	TEMPORARY CONSTRUCTION EASEMENT
UOHE	UTILITY OVERHEAD EASEMENT
PDE	PERMANENT DRAINAGE EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
CONST.	CONSTRUCT
TBM	TEMPORARY BENCHMARK
C.P.	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
ADJ.	ADJUST
EL.	ELEVATION
ESMT.	EASEMENT
BK.CB.	BACK OF CURB
BK.SWK.	BACK OF SIDEWALK



1-800-DIG-RITE or 811
www.mo1call.com

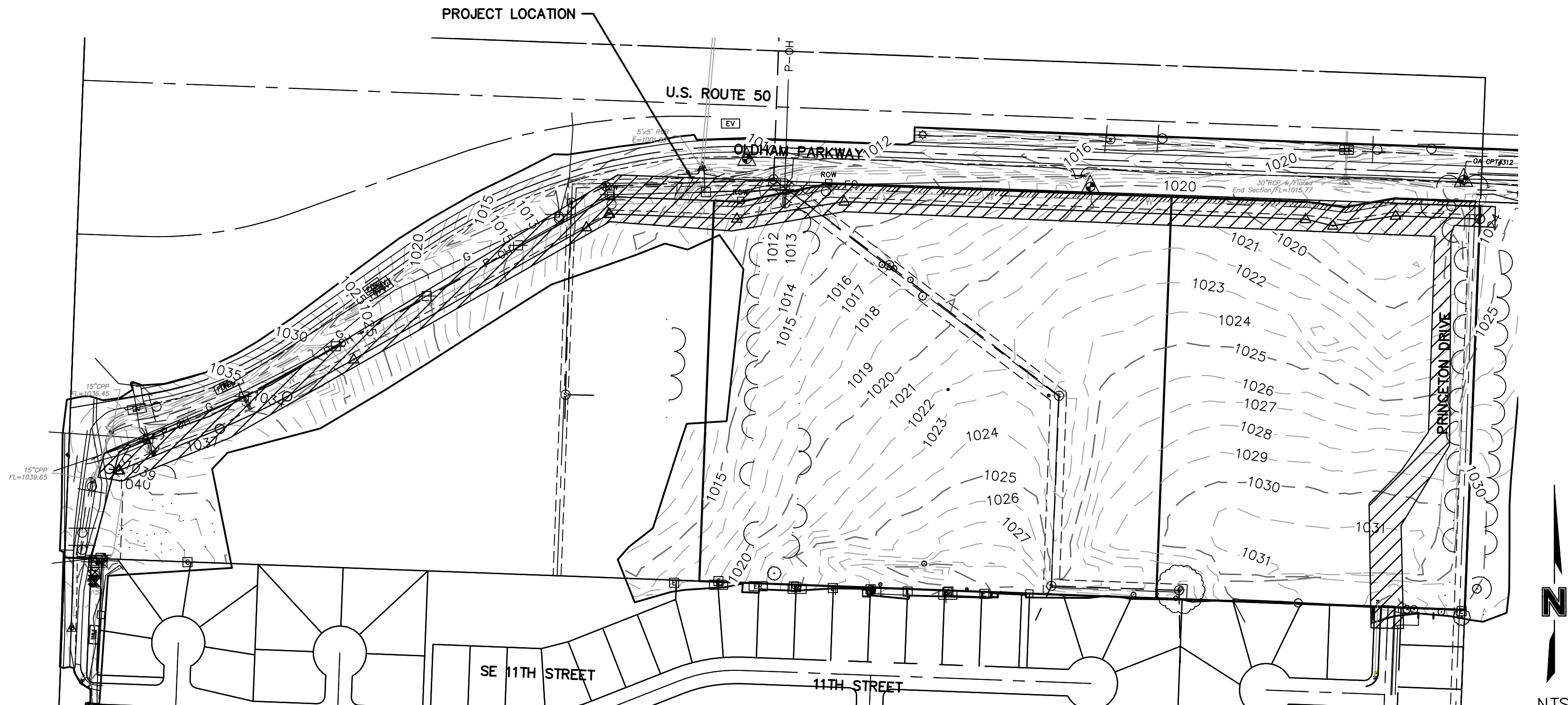
THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!

*PROPOSED UTILITIES

---	[ATT]	PROPOSED AT&T
---	[Fo]	PROPOSED FIBER
---	[G]	PROPOSED GAS
---	[W]	PROPOSED WATERLINE
---	[UTL OH]	PROPOSED OVERHEAD UTILITIES
---	[SL]	PROPOSED STREET LIGHT CONDUIT
---	[CCL]	PROPOSED CONSOLIDATED

*The utilities as shown in this legend represent the intended construction or relocation of utilities. These plans do not take into account the construction schedule or "As-Constructed Plans" of utility construction or relocations. Therefore, the Contractor shall notify all utility agencies before beginning work and shall cooperate with them in locating and protecting their utilities. The Engineer and Owner make no guarantee as to accuracy or completeness of information shown.

FINAL PLANS FOR
PUBLIC WATER MAIN EXTENSION
SE OLDHAM ROAD
LEE'S SUMMIT, MISSOURI



LOCATION MAP
SEC. 10, TWP. 47N, RNG. 31W

UTILITY COMPANIES:

AT&T
RON GIFFERT
500 E. 8TH STREET, ROOM 1146
KANSAS CITY, MISSOURI 64106
PHONE: (816) 275-1550
EMAIL: RG7910@ATT.COM

KANSAS CITY POWER & LIGHT
JEFF R. WILLIAMS, ENGINEER - CENTRAL DESIGN
401 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081
PHONE: (816) 347-4310
EMAIL: JEFF.WILLIAMS@KCPL.COM

CONSOLIDATED COMMUNICATIONS
JOHN CASTLOW
14859 W. 95TH STREET
LENEXA, KS 66215
PHONE: (913) 322-9785
EMAIL: JOHN.CASTLOW@CONSOLIDATED.COM

GOOGLE FIBER
LAUREN MARCUCCI
PHONE: (913) 663-1900
EMAIL: LMARCUCCI@GOOGLE.COM

FIRE DEPARTMENT
LEE'S SUMMIT FIRE DEPARTMENT
207 SE DOUGLAS STREET
LEE'S SUMMIT, MISSOURI 64063
(816)-969-1300

AMBULANCE SERVICE
TELE: 911

LEE'S SUMMIT R-7 SCHOOL DISTRICT
KINZIE WOODERSON
301 NE TUDOR ROAD
LEE'S SUMMIT, MO 64086
PHONE: (816) 986-1050
EMAIL: KINZIE.WOODERSON@LSR7.NET

LEE'S SUMMIT WATER UTILITIES
DAVID LOHE
PHONE: (816) 969-1800
EMAIL: DAVID.LOHE@CITYOFLS.NET

LEE'S SUMMIT SEWER UTILITIES
1200 SE HAMLEN ROAD
LEE'S SUMMIT, MISSOURI 64801
(816) 969-1900

SPIRE GAS
RICHARD FROCK
3025 SE CLOVER DRIVE
LEE'S SUMMIT, MO 64082
PHONE: (816) 472-3489
EMAIL: RICHARD.FROCK@SPIREENERGY.COM

CHARTER/SPECTRUM CABLE
TROY PREWITT
8221 W. 119TH STREET
OVERLAND PARK, KS 66213
PHONE: (816) 401-3573
EMAIL: TROY.PREWITT@CHARTER.COM

COMMUNICATION:
CENTURYLINK
COMCAST
GOOGLE FIBER NOC
SPRINT/ERICSSON
TIME WARNER CABLE
TW TELECOM
UNITE PRIVATE NETWORKS
VERIZON COMMUNICATIONS INC.
1-800-246-4237
1-888-262-5101
1-866-954-1572
1-800-521-0579
1-866-967-7611
1-800-829-0420
1-866-963-4237
1-800-624-9675

INDEX OF SHEETS

SHEET NO. TITLE

W0.1	TITLE SHEET
W1.0	WATERLINE INDEX SHEET
W2.1	LINE 1 PLAN & PROFILE
W2.2	LINE 1 PLAN & PROFILE
W2.3	LINE 1 PLAN & PROFILE
W2.4	LINE 1 PLAN & PROFILE
W2.5	LINE 1 PLAN & PROFILE
W2.6	LINE 1 PLAN & PROFILE
W2.7	LINE 2 PLAN & PROFILE
W2.8	LINE 2 PLAN & PROFILE
W3.0	WATER SYSTEM DETAILS
W3.1	WATER SYSTEM DETAILS

BENCHMARKS:

MO DNR JA-45: KC METRO ALUMINUM GRS DISK SET IN CONCRETE 3"± BELOW PAVEMENT ON THE SHOULDER OF SE RANSON ROAD STAMPED "JA-45"
ELEV.=1046.26'
PUBLISHED COORDINATES (1988 ADJUSTMENT):
N: 303273.664M
E: 863885.886M
GRID=GROUND
N: 994990.3460
E: 2834265.6110
CAF: 0.99989860A

BENCHMARK #41314:
NORTHING: 995857.9570
EASTING: 2835453.8010
SET SQUARE CUT IN CENTER OF CONCRETE HEADWALL FOR REINFORCED CONCRETE BOX
ELEVATION=1007.13' (NAVD 88)

OA CONTROL POINT #310
NORTHING: 995873.4445
EASTING: 2835537.7320
FOUND 1/2" REBAR W/CAP 8' SOUTH OF PAVEMENT
EAST OF REINFORCED CONCRETE BOX
ELEVATION=1008.08' (NAVD 88)

SURVEYOR:

OLSSON
7301 W. 133rd STREET, SUITE 200
OVERLAND PARK, KS. 66213-4750
TELE: (913) 381-1170
FAX: (913) 381-1174

OWNER/APPLICANT/DEVELOPER:

LEE'S SUMMIT SENIOR COMMUNITY, LLC.
CONTACT: DENISE K. HEINTZ
5051 S. NATIONAL AVENUE, STE 4-110
SPRINGFIELD, MISSOURI 65810
TELE: (417)893-6006
FAX: (417)862-9501

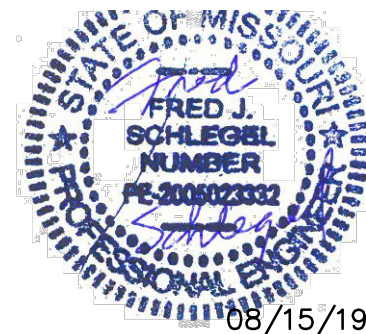
PREPARED & SUBMITTED BY:

OLSSON
550 E. ST. LOUIS STREET
SPRINGFIELD, MO. 65806

olsson

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Olsson Landscape Architecture MO State Cert. of Authority #2005002085
550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802
www.olsson.com

RECORD DRAWING



O'REILLY BUILD, THE GENERAL CONTRACTOR, INDICATES THERE WERE NO FIELD CHANGES TO THE PLANS. THE PLANS THEREFORE REPRESENT, TO THE BEST OF OUR KNOWLEDGE, THE AS-BUILT CONDITION OF THE WATER MAIN

REV.	NO.	DATE	REVISIONS DESCRIPTION	ENGR. REVIEW COMMENTS
3		08/15/2019		

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3		08/15/2019		

2019

PUBLIC WATER MAIN EXTENSION
TITLE SHEET

THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_TTL_WTR_81450
date: 00.00.00

SHEET
W0.1

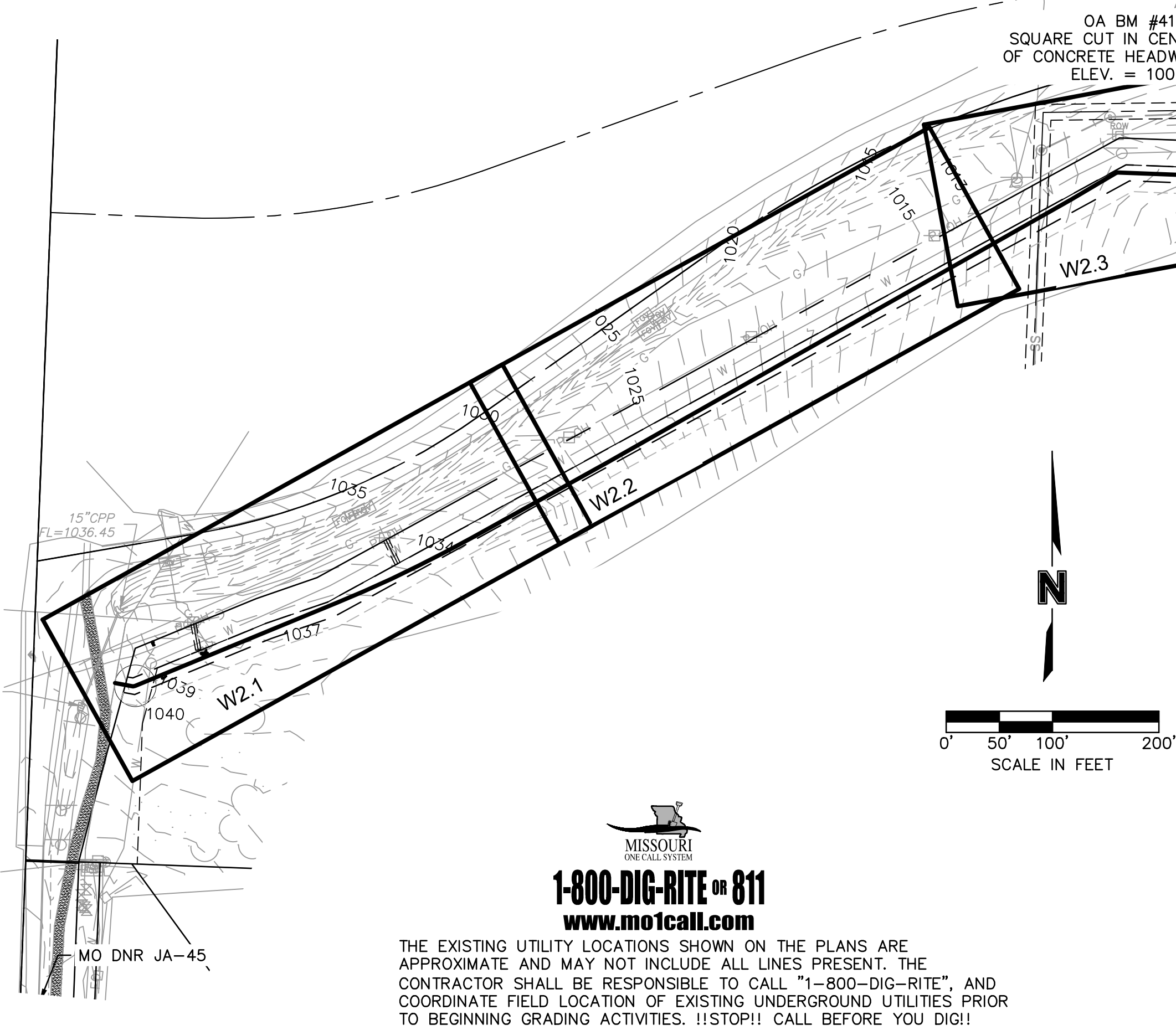
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XREFS: v_xbou_81450 c_pbase_81450 c_tblk_22x34_81450 c_pbase_81450 c_legend_81450 c_palgn_wtr_81450 c_topo_81450
USER: thill

GENERAL NOTES

- CONTRACTOR SHALL "POTHOLE" AND EXPOSE ALL TIE-IN AND CROSSING LOCATIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS REQUIRED TO PROVIDE PROPER HORIZONTAL AND VERTICAL ALIGNMENT FOR NEW WATER MAINS. CONNECTIONS TO EXISTING WATER MAINS AT THE PROPER LOCATION AND ELEVATION, WHETHER OR NOT THE PROPER FITTINGS, LOCATION OR ELEVATIONS ARE CALLED OUT ON THESE DRAWINGS, INCLUDING MODIFICATIONS OF EXISTING INFRASTRUCTURE REQUIRED TO MAKE ALL OF THE WORK CONFORM TO THE CURRENT LEE'S SUMMIT PUBLIC WORKS STANDARDS AND MISSOURI DEPARTMENT OF NATURAL RESOURCES, MINIMUM DESIGN STANDARDS FOR COMMUNITY WATER SYSTEMS 2013.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY BLOW-OFF ASSEMBLIES, FITTINGS, THRUST BLOCKING, AND RESTRAINING DEVICES REQUIRED FOR TEMPORARY CONNECTIONS FOR FLUSHING, PRESSURE TESTING, CHLORINATION, AND DE-CHLORINATION OF THE NEW WATER MAINS PRIOR TO PLACING NEW MAINS IN SERVICE. THE CONTRACTOR SHALL REMOVE ANY CORPORATION COCKS USED FOR TESTING OR CHLORINATION AND REPLACE THEM WITH TAPERED BRASS PLUGS.
- SCHEDULING OF WATER MAIN SHUTDOWNS AND CONNECTION TO EXISTING MAINS SHALL BE AT THE DISCRETION OF LEE'S SUMMIT PUBLIC WORKS. ALL WATER LINE SHUTDOWNS MUST BE COORDINATED THROUGH LEE'S SUMMIT PUBLIC WORKS. THE CONTRACTOR SHALL PLAN ON THIS WORK BEING SCHEDULED DURING THE NIGHT AT OFF PEAK HOURS.
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES. CONTRACTOR SHALL "POTHOLE" AND EXPOSE ALL UTILITIES (INDICATED ON THE DRAWINGS, LOCATED AT GRADE BY A UTILITY LOCATING SERVICE, OR EVIDENT FROM UTILITY COMPANY INFORMATION) AT LEAST 500 FEET IN ADVANCE OF WATER MAIN CONSTRUCTION, DETERMINING THE DEPTH, SIZE, AND MATERIAL OF THE UTILITIES IN PROXIMITY TO THE PROPOSED WATER MAIN ALIGNMENT.
- THE CONTRACTOR SHALL COMPLY WITH STATE LAW REQUIRING ANY PERSON OR FIRM DOING EXCAVATION ON THE PUBLIC RIGHT-OF-WAY. PROCEED ONLY AFTER GIVING NOTICE TO AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
- WATER MAINS SHALL BE INSTALLED WITH A MINIMUM GROUND COVER OF 42 INCHES BELOW FINISHED GRADE AND A MAXIMUM OF 7' IN DEPTH.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY SEWER. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, A WATER MAIN MAY BE LAID CLOSER THAN 10 FEET TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WATER MAINS SHALL BE LAID SUCH THAT THERE IS A MINIMUM OF 18 INCHES CLEARANCE BETWEEN THE PIPE WALL AND THE EXTERIOR OF ANY MANHOLE AND/OR INLET ON THE SEWER LINE.

WHENEVER A WATER MAIN MUST CROSS ABOVE A SEWER, A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER SHALL BE MAINTAINED. WHENEVER A WATER MAIN MUST CROSS UNDER A SEWER, A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE SEWER AND THE TOP OF THE WATER MAIN SHALL BE MAINTAINED. A FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ON THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUALLY DISTANT FROM THE SEWER AND AS FAR AWAY AS POSSIBLE. THE 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET, HORIZONTALLY, OF ANY SEWER IT CROSSES.

WHERE THESE CONDITIONS CANNOT BE MET, LEE'S SUMMIT PUBLIC WORKS SHALL BE CONSULTED AS TO THE PRECAUTIONS TO BE TAKEN TO PROTECT THE PUBLIC WATER SUPPLY.
- THE CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATER MAIN PRIOR TO SCHEDULING CONNECTION.
- CONTRACTORS SHALL PROTECT EXISTING POWER POLES AND LIGHT POLES FROM DAMAGE AND SHALL PROVIDE BRACING, SHORING, OR OTHER WORK NECESSARY FOR SUCH PROTECTION. ANY STRUCTURES REMOVED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED.
- THE PROPOSED WATER LINE IMPROVEMENTS SHALL BE COMPLETED IS SUCH A MANNER TO PROVIDE THE LEAST AMOUNT OF INTERRUPTION TO WATER SERVICE.



MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE or 811
www.mot1call.com
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ESTIMATE OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS-BUILT
1	12" C900 PVC PIPE DR 18	LF	2646.98	
2	8" C900 PVC PIPE DR 18	LF	756.55	
3	12" AWWA A21.1 DIP CLASS 50	LF	60	
4	20"x12" TEE	EA	1	
5	12"x8" TEE	EA	1	
6	2" CORP STOP	EA	1	
7	12" BUTTERFLY VALVE AND BOX	EA	6	
8	20" BUTTERFLY VALVE AND BOX	EA	1	
9	8" GATE VALVE AND BOX	EA	1	
10	FIRE HYDRANT ASSEMBLY, VALVE, BENDS AND TEE	EA	5	
11	12"x6" REDUCER	EA	1	
12	12" 45 DEG BEND	EA	8	
13	12" 22.5 DEG BEND	EA	4	
14	12" 11.25 DEG BEND	EA	7	
15	8" 45 DEG BEND	EA	2	
16	8" 22.5 DEG BEND	EA	2	
17	8" 11.25 DEG BEND	EA	2	
18	CONCRETE ENCASEMENT	LF	60	

LEGEND	
---	PROPERTY LINES
---	RIGHT-OF-WAY (ROW)
---	ROAD CENTERLINE
---	EASEMENT LINES
---	SETBACK LINES
○	FOUND MONUMENT
△	TEMPORARY BENCHMARK
⊕	EXIST. POWER POLE
⊞	EXIST. ELECTRIC BOX
⊞	EXIST. ELECTRIC VAULT
⊞	EXIST. ELECTRIC METER
⊞	EXIST. GUY WIRE
⊞	EXIST. TELEPHONE PEDESTAL
⊞	EXIST. FIRE HYDRANT
⊞	EXIST. WATER METER
⊞	EXIST. WATER VALVE
⊞	EXIST. GAS MARKER
⊞	EXIST. CABLE VAULT
⊞	EXIST. SANITARY MANHOLE
⊞	EXIST. FLARED END SECTION
⊞	EXIST. DECIDUOUS TREE
⊞	EXIST. SIGN
⊞	PROP. SANITARY SEWER CLEANOUT
⊞	PROP. FIRE HYDRANT
⊞	PROP. GATE VALVE
⊞	PROP. SIGN
⊞	EXIST. OVERHEAD ELECTRIC
⊞	EXIST. UNDERGROUND TELEPHONE
⊞	EXIST. GAS LINE
⊞	EXIST. STORM SEWER LINE
⊞	EX. WOOD FENCE
⊞	PROP. SANITARY SEWER SERVICE
⊞	PROP. STORM SEWER 12" OR LARGER
⊞	PROP. STORM SEWER 10" OR SMALLER
⊞	PROP. UNDERGROUND ELECTRIC
⊞	PROP. PUBLIC WATER MAIN
⊞	PROP. IRRIGATION LINE
⊞	PROP. WATER SERVICE
⊞	PROP. FIRE PROTECTION LINE
⊞	PROP. FENCE
⊞	EXISTING CONTOUR
⊞	PROPOSED CONTOUR
⊞	STRAIGHT BACK DRY CURB & GUTTER (TYPE CG-1 DRY)
⊞	STRAIGHT BACK CURB & GUTTER (TYPE CG-1)
⊞	STRAIGHT CURB (TYPE C-1)
⊞	"FLUSH" CURB
⊞	BACK OF CURB TO BACK OF CURB

Control: Horizontal & Vertical Control is based on the MoDOT Continuously Operating GNSS Network, Missouri Coordinate System 1983, West Zone, MO DNR Control Point JA-45.

Coordinate Datum: State Plane Bearings, Local Ground Coordinates, Ground Distances, US Survey Feet

MO DNR JA-45: KC Metro Aluminum GRS Disk Set in Concrete 3"± below Pavement on the Shoulder of SE Ranson Road Stamped "JA-45" Elev.=1046.26'
Published Coordinates (1988 Adjustment):
N: 303273.664m
E: 863885.886m
Grid=Ground
N: 994990.3460
E: 2834265.6110
CAF: 0.9998986

OA CPT #310: Found 1/2" Rebar w/Cap 8' South of Pavement East of RCB N: 995873.44 E: 2835537.73

OA CPT #311: FOUND 1/2" Rebar w/Cap 30' South of Pavement Southeast of Gravel Field Entrance N: 995821.94 E: 2836184.94

OA CPT #312: Set 1/2" Rebar w/Cap "Olsson Associates Survey Control Point" 1' South of Pavement N: 995834.09 E: 2836888.17

Elevations Datum: NAVD 1988

OA Bench Mark #41314: Set Square Cut in Center of Concrete Headwall for RCB Elevation=1007.13'

Utilities: Utilities shown have been located from field survey information, together with obtained records. The Surveyor makes no guarantee that the utilities shown comprise all such utilities in the area, either in-service or abandoned. The Surveyor further does not warrant that the utilities shown are in the exact location indicated. Locates are in compliance with Subsurface Utility Engineering Quality Level "B", and were through the Missouri One-Call System, Ticket Number 181362453. Companies listed on said Ticket are: ATT Distribution, Google Fiber, Spire MO Midwest, City of Lee's Summit, City of Lee's Summit Sewer, City of Lee's Summit Stormwater, Tri-County Water Authority, Time Warner Cable and Kansas City Power & Light.

olsson

Olsson Engineering MO State Certificate of Authority #001592
Olsson Landscape Architecture MO State Cert. of Authority #205000285
550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802
www.olsson.com

RECORD DRAWING

STATE OF MISSOURI
FRED J. SCHLEGER
REGISTERED PROFESSIONAL ENGINEER
No. 000000000
08/15/19

O'REILLY BUILD, THE GENERAL CONTRACTOR, INDICATES THERE WERE NO FIELD CHANGES TO THE PLANS. THE PLANS THEREFORE REPRESENT, TO THE BEST OF OUR KNOWLEDGE, THE AS-BUILT CONDITION OF THE WATER MAIN

WATER MAIN EXTENSION
WATERLINE INDEX SHEET

THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

REV. NO.

DATE

REVISIONS DESCRIPTION

5
08/15/19
ENGR. REVIEW COMMENTS

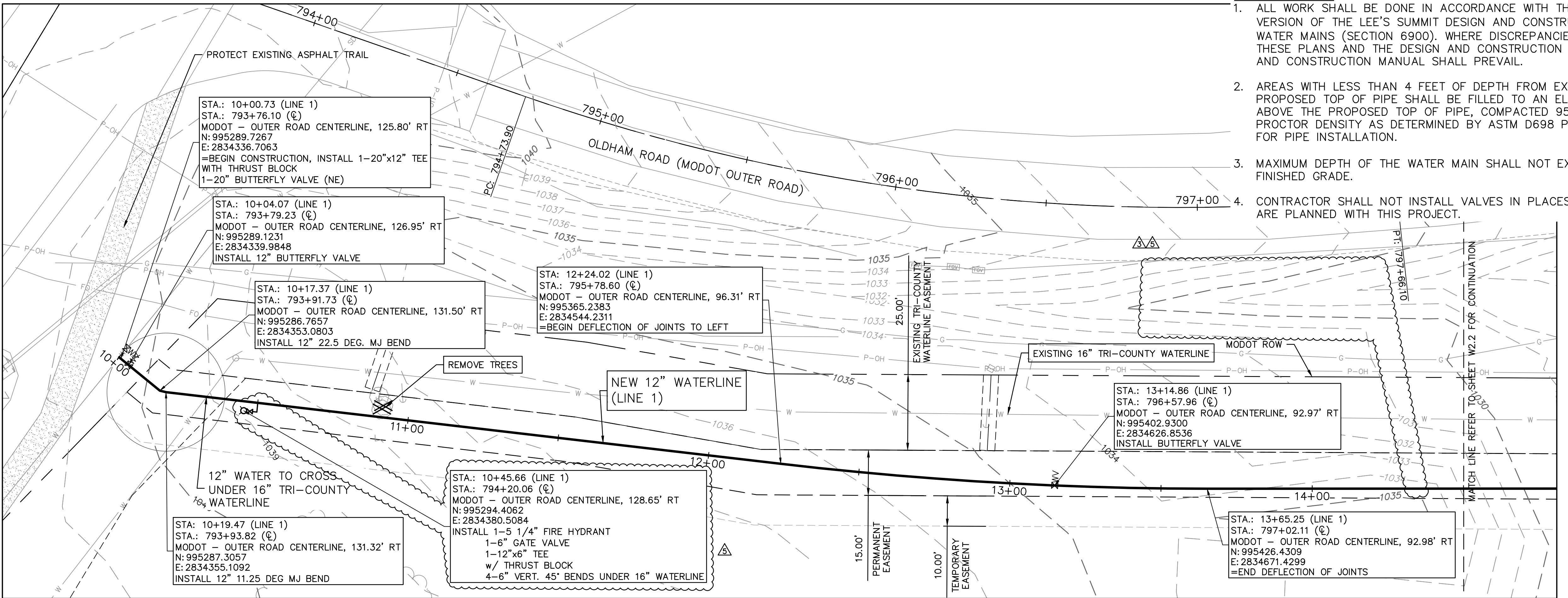
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07/19/2019
ENGR. REVIEW COMMENTS

2019

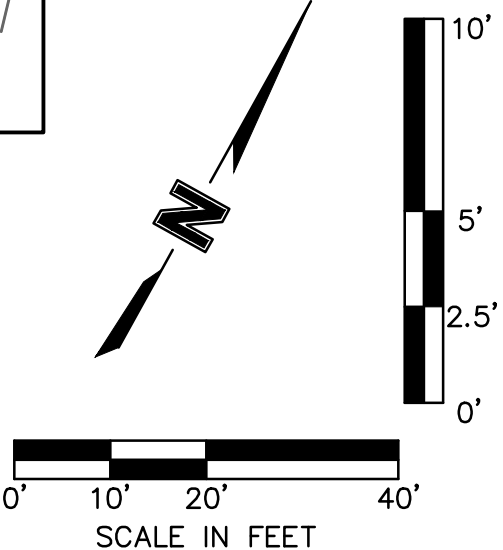
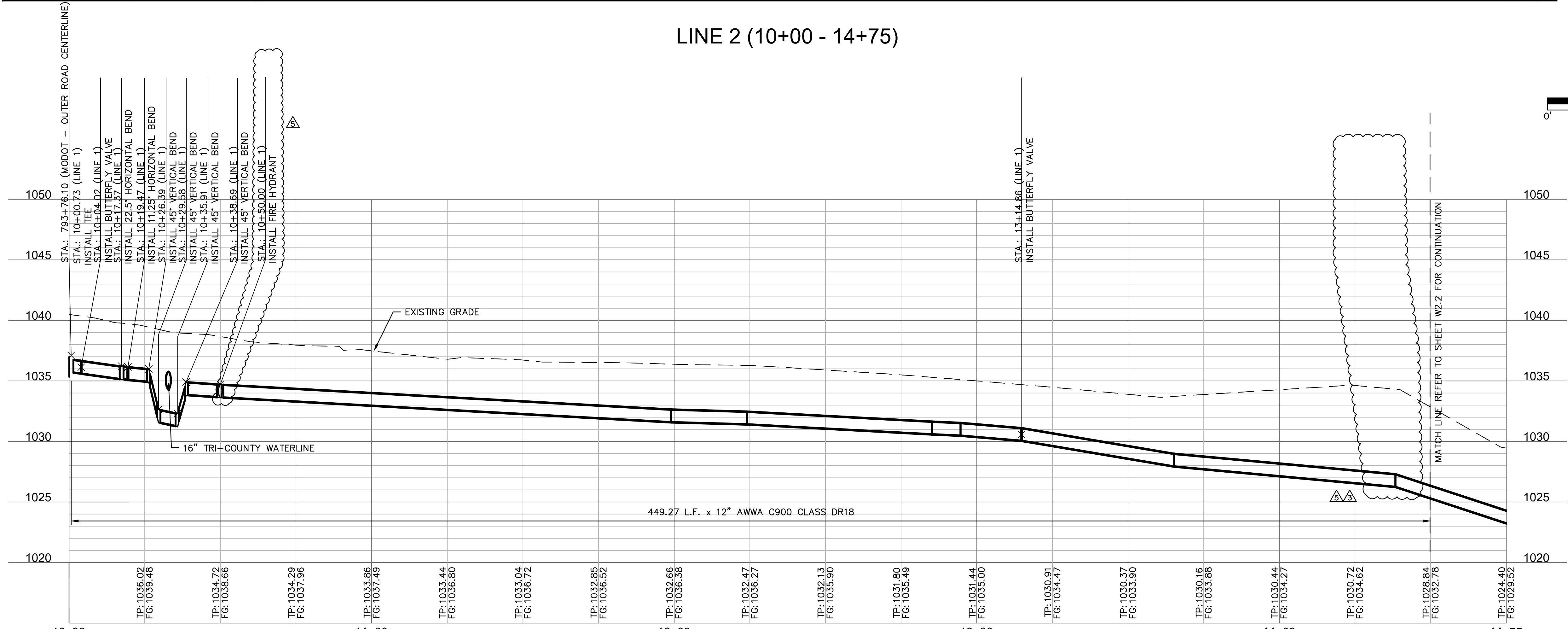
drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W1.0

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USER: thill
T_PBASE_81450



LINE 2 (10+00 - 14+75)



- GENERAL NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL FOR WATER MAINS (SECTION 6900). WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.
 2. AREAS WITH LESS THAN 4 FEET OF DEPTH FROM EXISTING GRADE TO THE PROPOSED TOP OF PIPE SHALL BE FILLED TO AN ELEVATION OF 4 FEET ABOVE THE PROPOSED TOP OF PIPE, COMPACTED 95% OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698 PRIOR TO TRENCHING FOR PIPE INSTALLATION.
 3. MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISHED GRADE.
 4. CONTRACTOR SHALL NOT INSTALL VALVES IN PLACES WHERE ADA RAMPS ARE PLANNED WITH THIS PROJECT.

olsson

Olsson Engineering MO State Certificate of Authority #001592
Olsson Landscape Architecture MO State Cert. of Authority #205002085
550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802
www.olsson.com

RECORD DRAWING

STATE OF MISSOURI
FRED J. SCHLESER
REGISTERED PROFESSIONAL ENGINEER
No. 000000000
08/15/19

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5		08/15/2019	ENGR. REVIEW COMMENTS

WATER MAIN EXTENSION
LINE 1 PLAN AND PROFILE

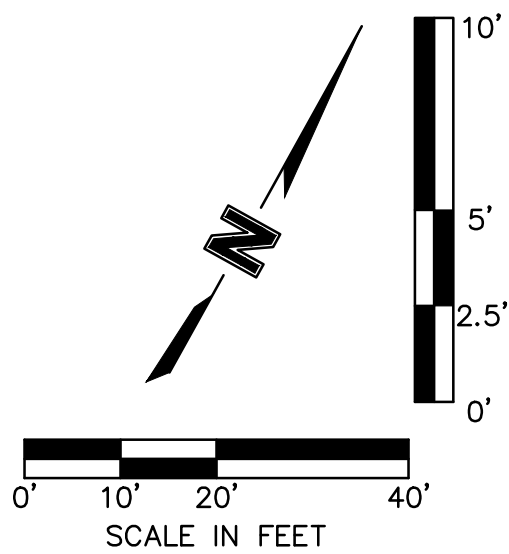
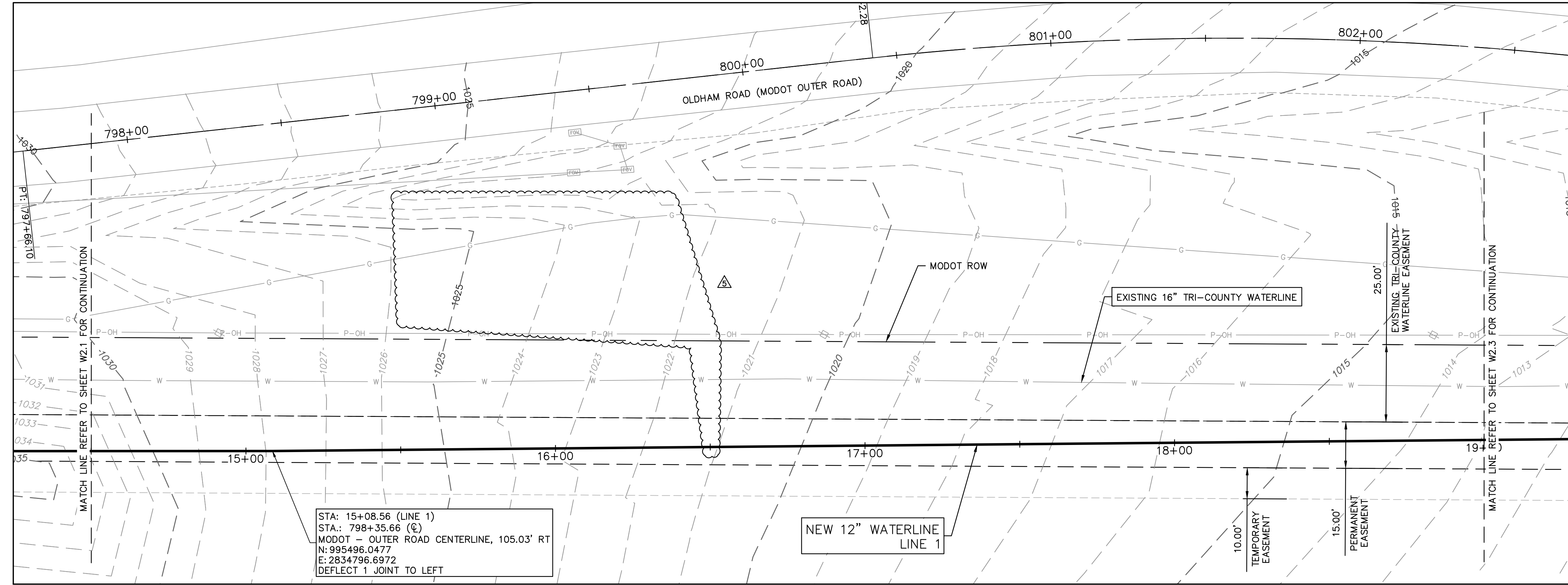
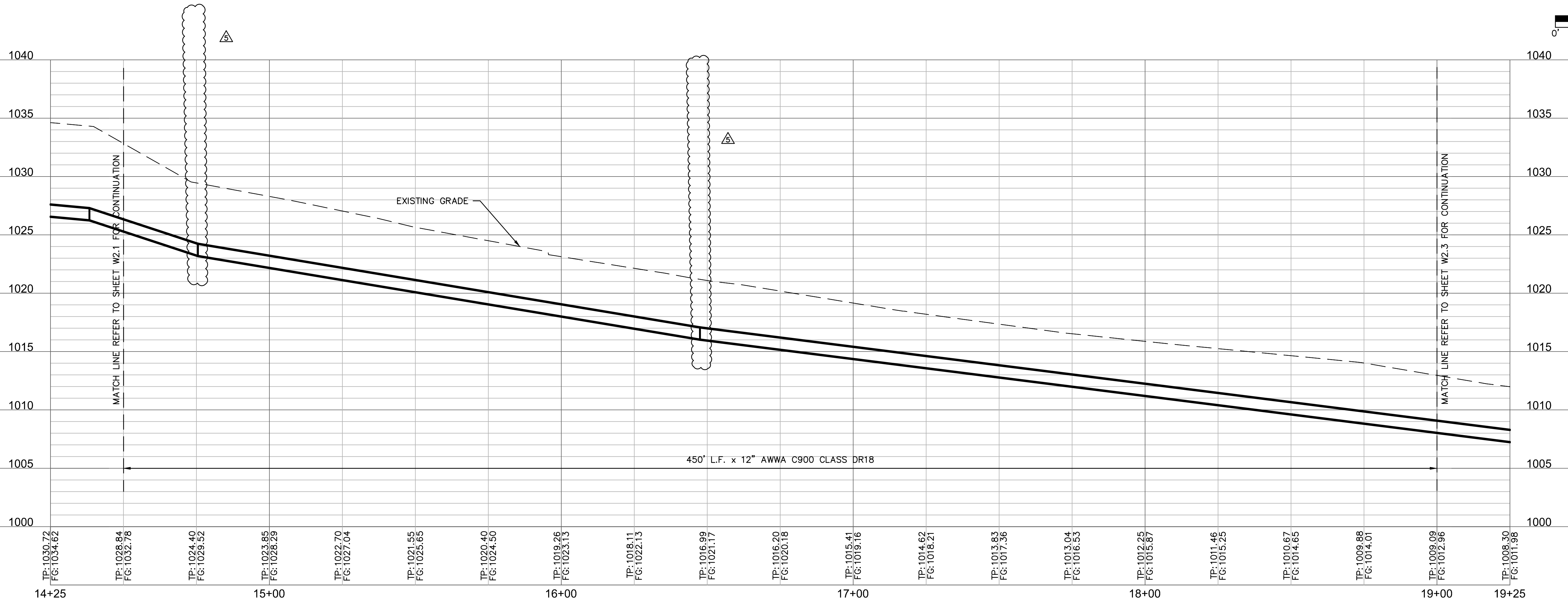
THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

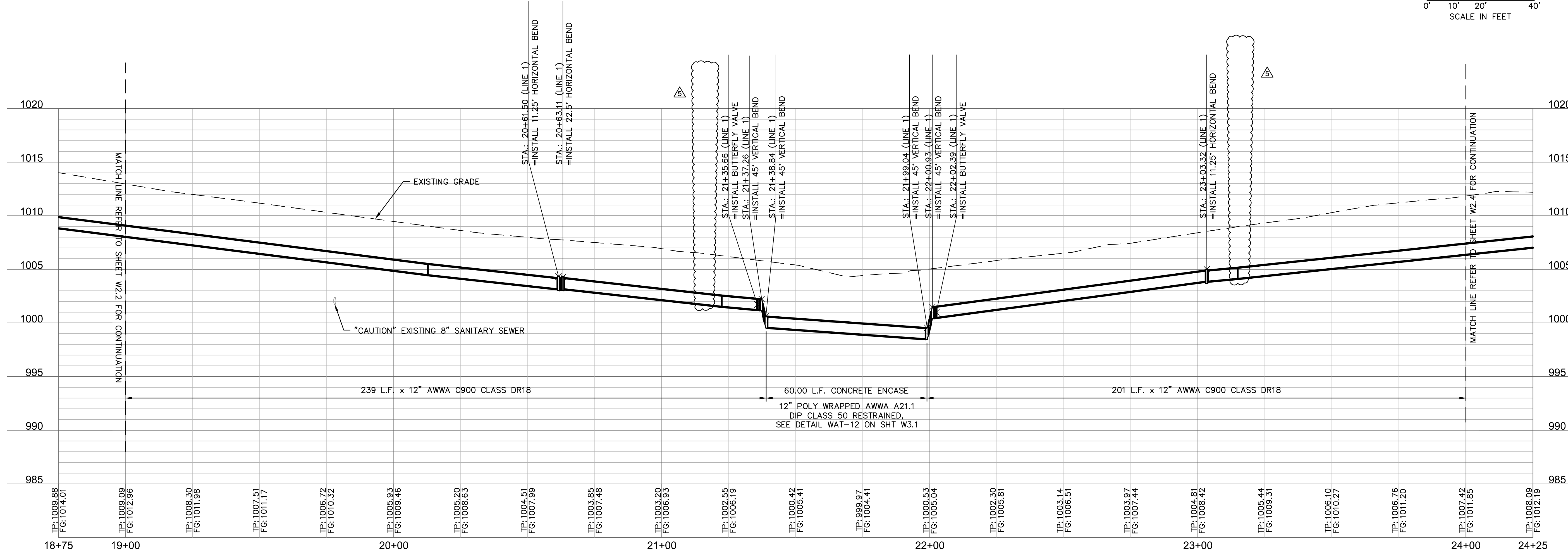
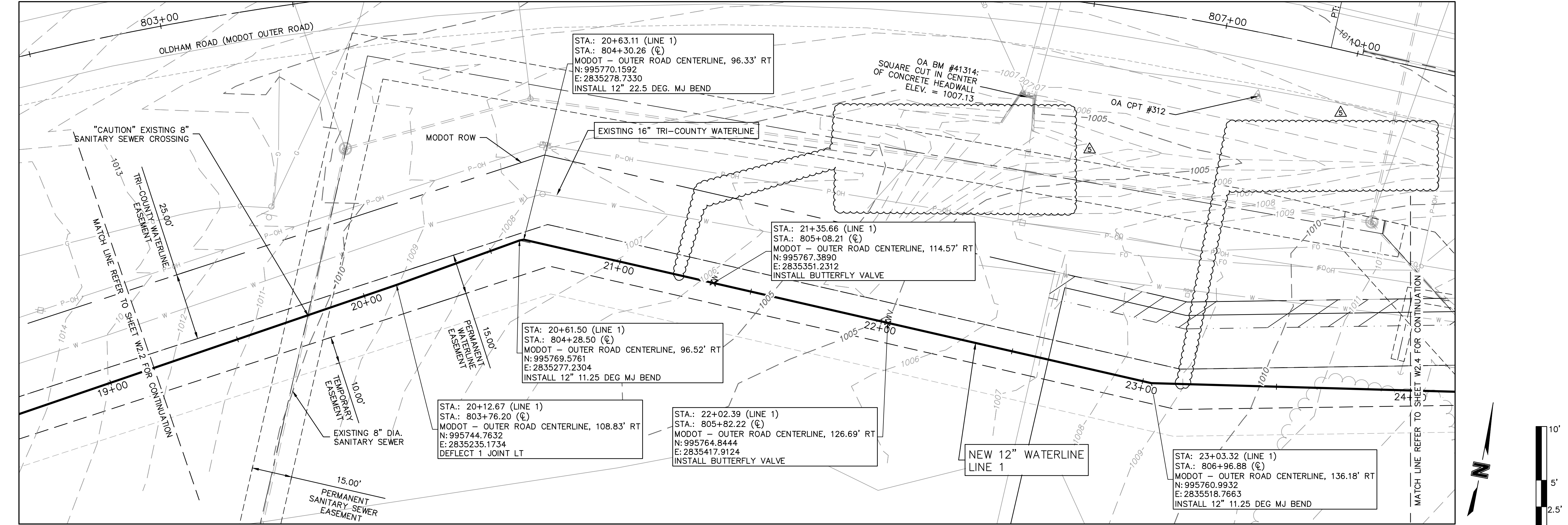
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drawn by: _____ TMH designed by: _____ FJS checked by: _____ JLR project no.: _____ 018-1450 drawing no.: _____ C_WPP 81450 date: _____ 08.15.19		2019	
WATER MAIN EXTENSION LINE 1 PLAN AND PROFILE			
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY			
LEE'S SUMMIT, MISSOURI		2019	

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USER: thill



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RECORD DRAWING

STATE OF MISSOURI
FRED J. SCHLEGER
REGISTERED PROFESSIONAL ENGINEER
08/15/19

O'REILLY BUILD, THE GENERAL CONTRACTOR, INDICATES THERE WERE NO FIELD CHANGES TO THE PLANS. THE PLANS THEREFORE REPRESENT, TO THE BEST OF OUR KNOWLEDGE, THE AS-BUILT CONDITION OF THE WATER MAIN

REV.	NO.	DATE	REVISIONS DESCRIPTION
5		08/15/19	ENGR. REVIEW COMMENTS
3		07/19/2019	ENGR. REVIEW COMMENTS

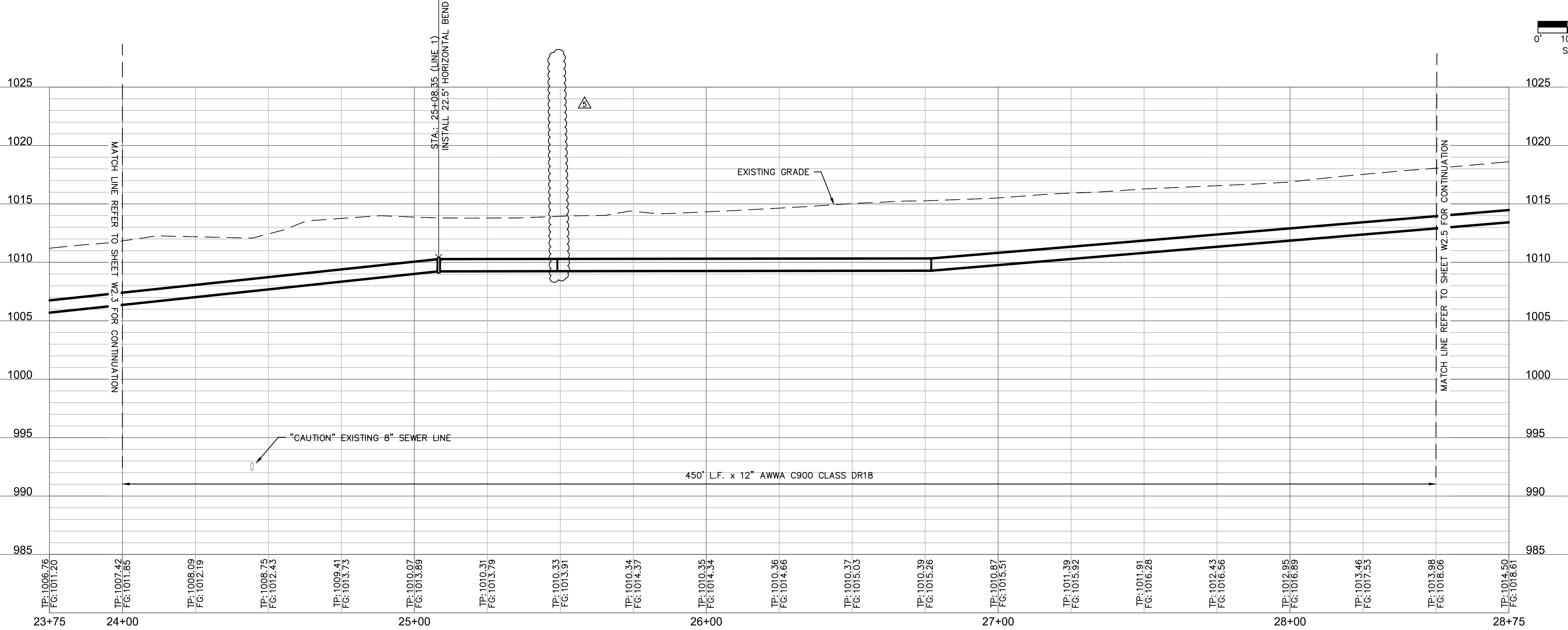
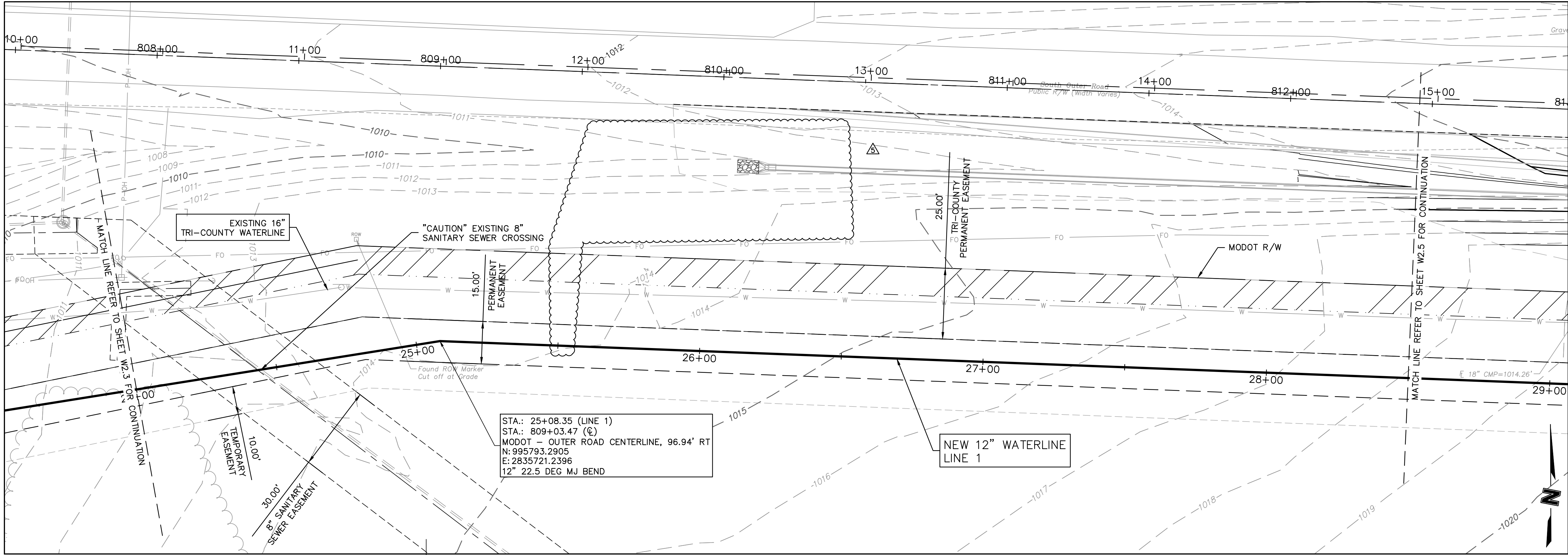
2019

WATER MAIN EXTENSION
LINE 1 PLAN AND PROFILE
THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY
LEE'S SUMMIT, MISSOURI

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.3

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USER: thill
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O'REILLY BUILD, THE GENERAL CONTRACTOR, INDICATES THERE WERE NO FIELD CHANGES TO THE PLANS. THE PLANS THEREFORE REPRESENT, TO THE BEST OF OUR KNOWLEDGE, THE AS-BUILT CONDITION OF THE WATER MAIN

REV. NO.	DATE	REVISIONS DESCRIPTION
5	08/15/19	ENGR. REVIEW COMMENTS
3	07/19/19	ENGR. REVIEW COMMENTS

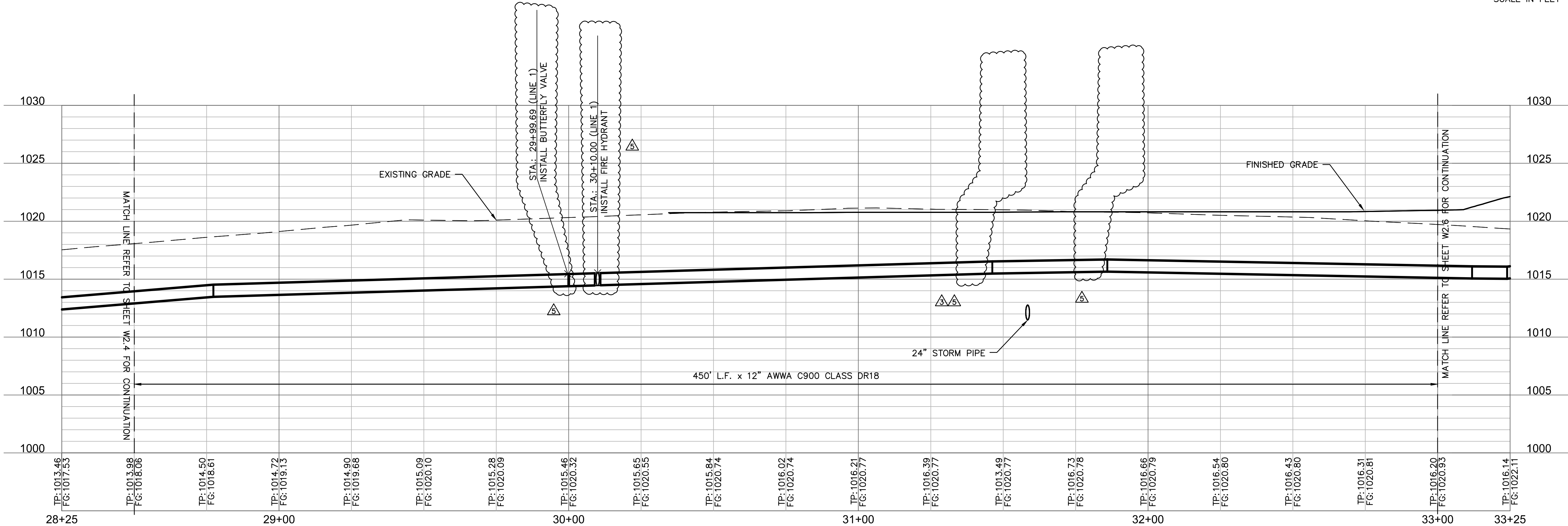
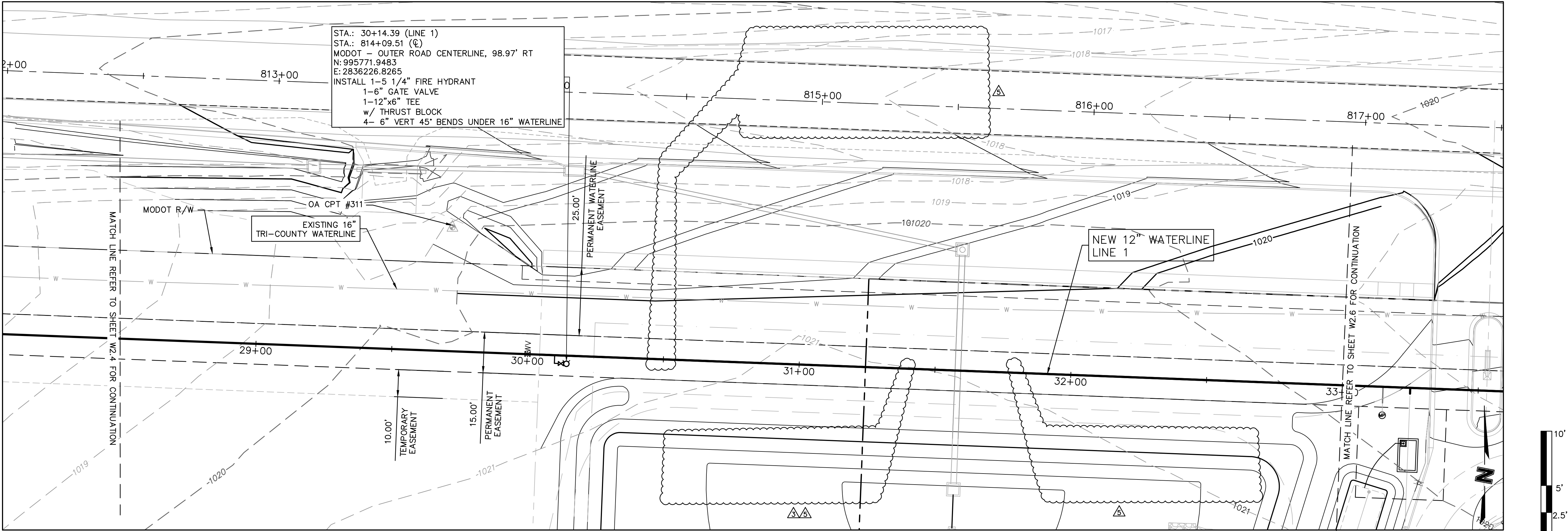
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3	07/19/19	ENGR. REVIEW COMMENTS

WATER MAIN EXTENSION LINE 1 PLAN AND PROFILE	2019
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY	
LEE'S SUMMIT, MISSOURI	

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.4

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USER: thill T_PBASE_81450



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RECORD DRAWING

STATE OF MISSOURI
FRED J. SCHLEGEL
NUMBER
FC-00002233
08/15/19

O'REILLY BUILD, THE
GENERAL CONTRACTOR,
INDICATES THERE WERE
NO FIELD CHANGES TO
THE PLANS. THE PLANS
THEREFORE REPRESENT,
TO THE BEST OF OUR
KNOWLEDGE, THE
AS-BUILT CONDITION OF
THE WATER MAIN

REV. NO.	DATE	REVISIONS DESCRIPTION
5	08/15/19	ENGR. REVIEW COMMENTS
3	07/19/2019	ENGR. REVIEW COMMENTS

REVISIONS

WATER MAIN EXTENSION
LINE 1 PLAN AND PROFILE

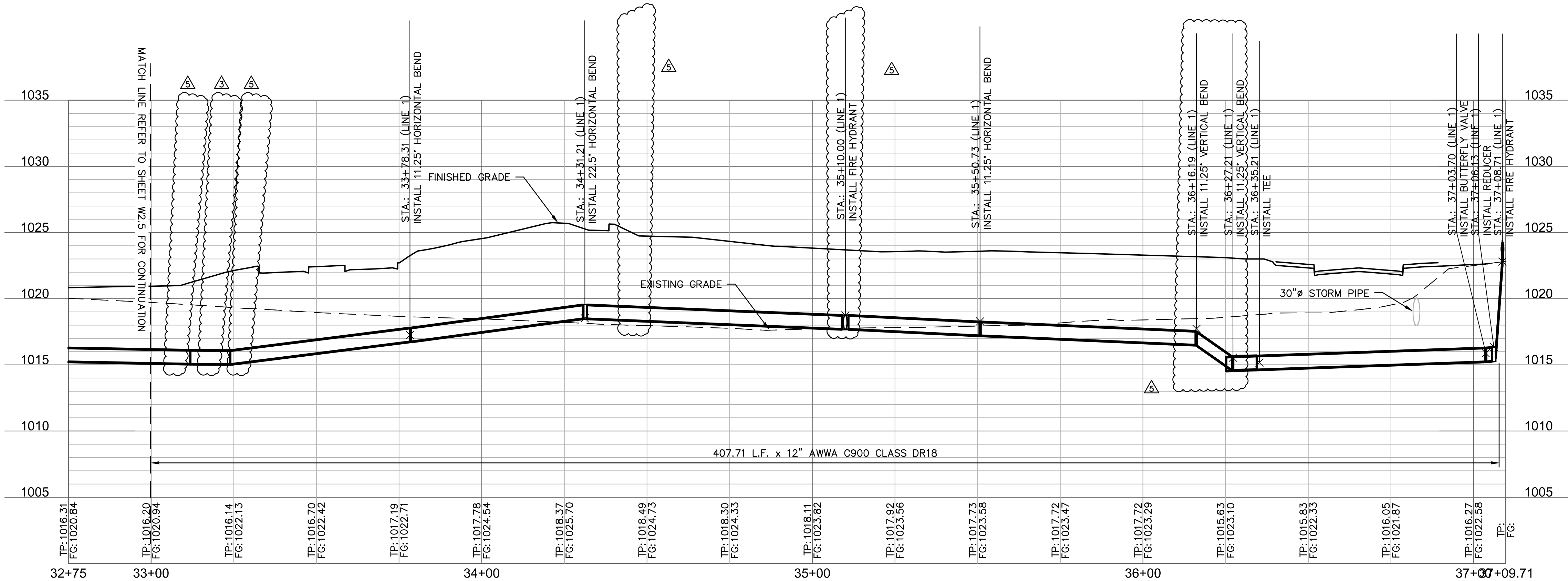
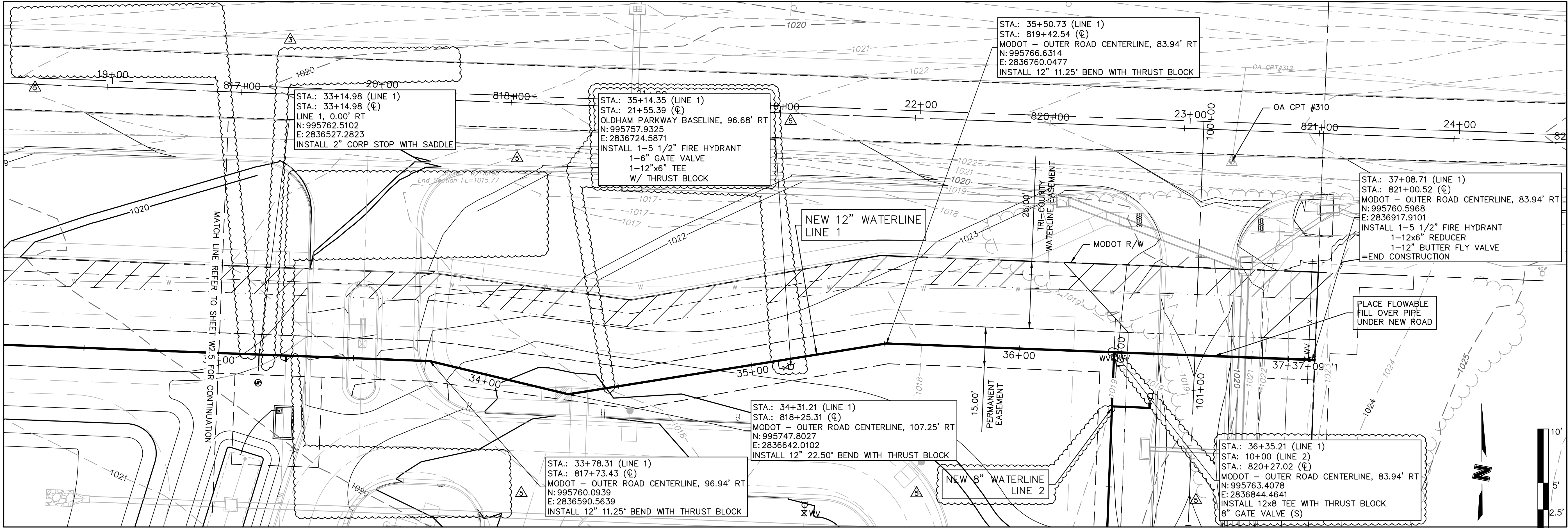
THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.5

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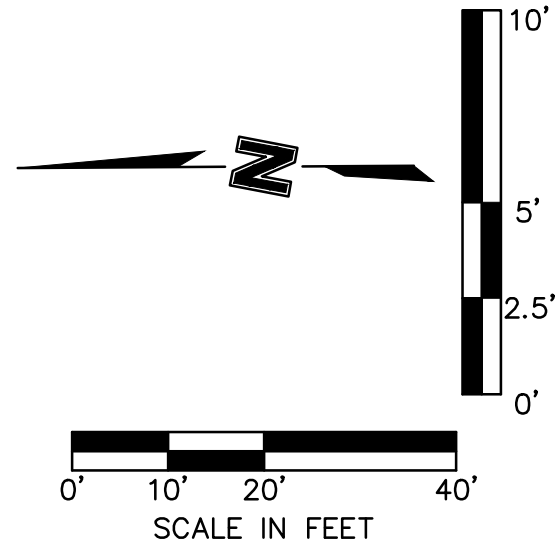
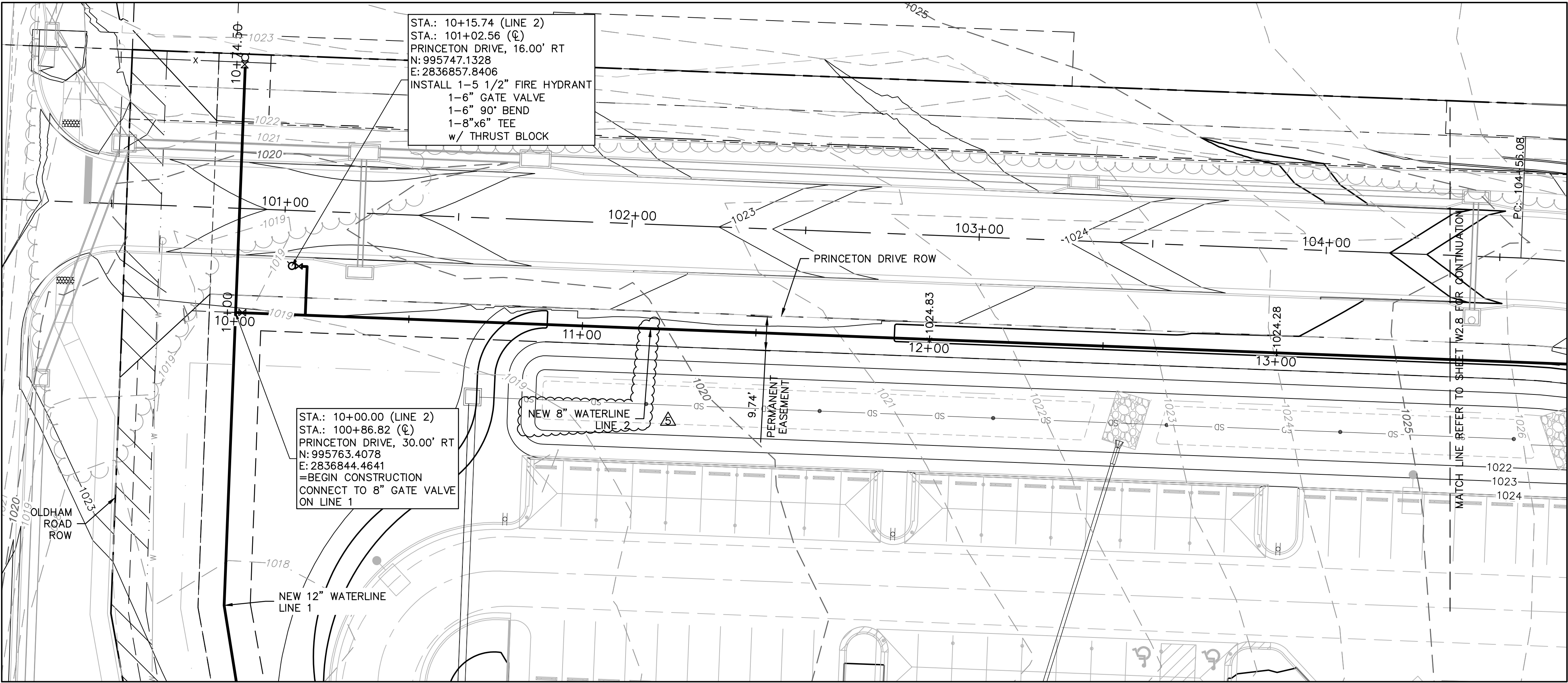
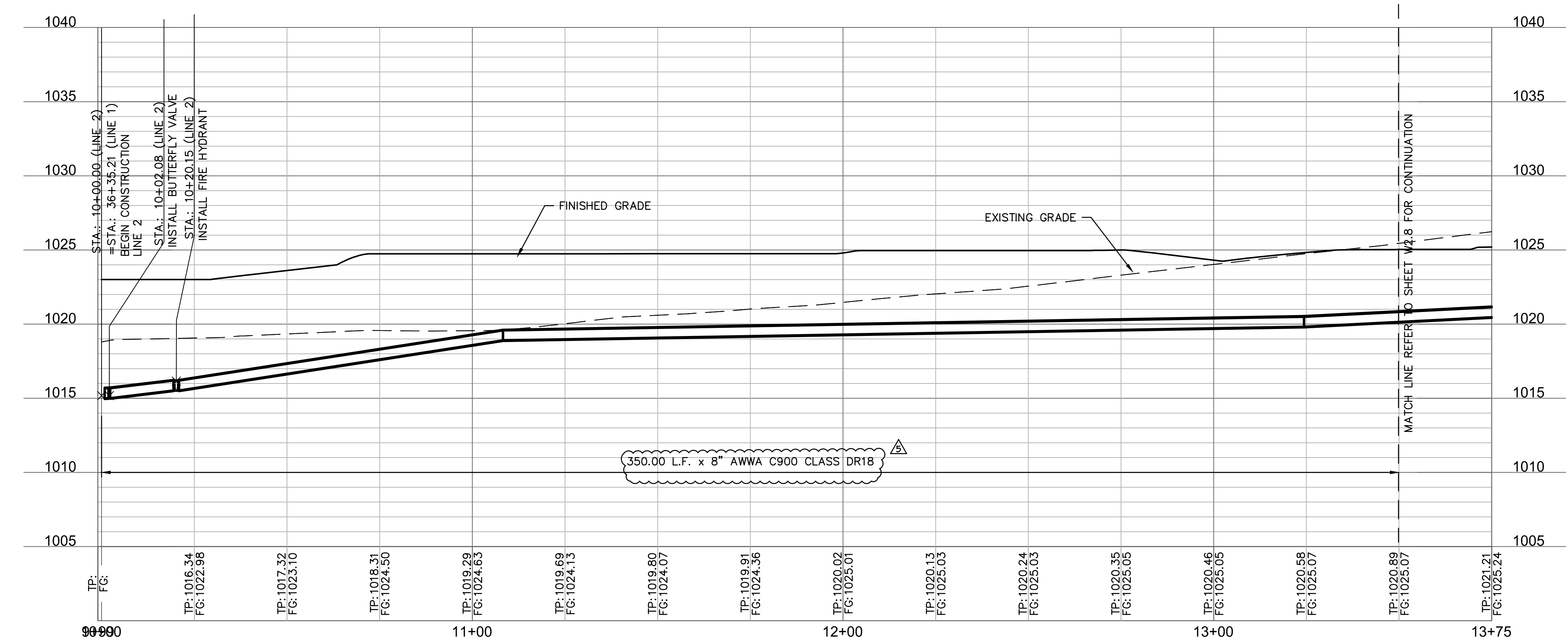
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3	07/19/2019		ENGR. REVIEW COMMENTS

WATER MAIN EXTENSION LINE 1 PLAN AND PROFILE	2019
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY	
LEE'S SUMMIT, MISSOURI	

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.6



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REV. NO.		DATE	REVISIONS DESCRIPTION
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3		07/19/2019	ENGR. REVIEW COMMENTS

WATER MAIN EXTENSION
LINE 2 PLAN AND PROFILE

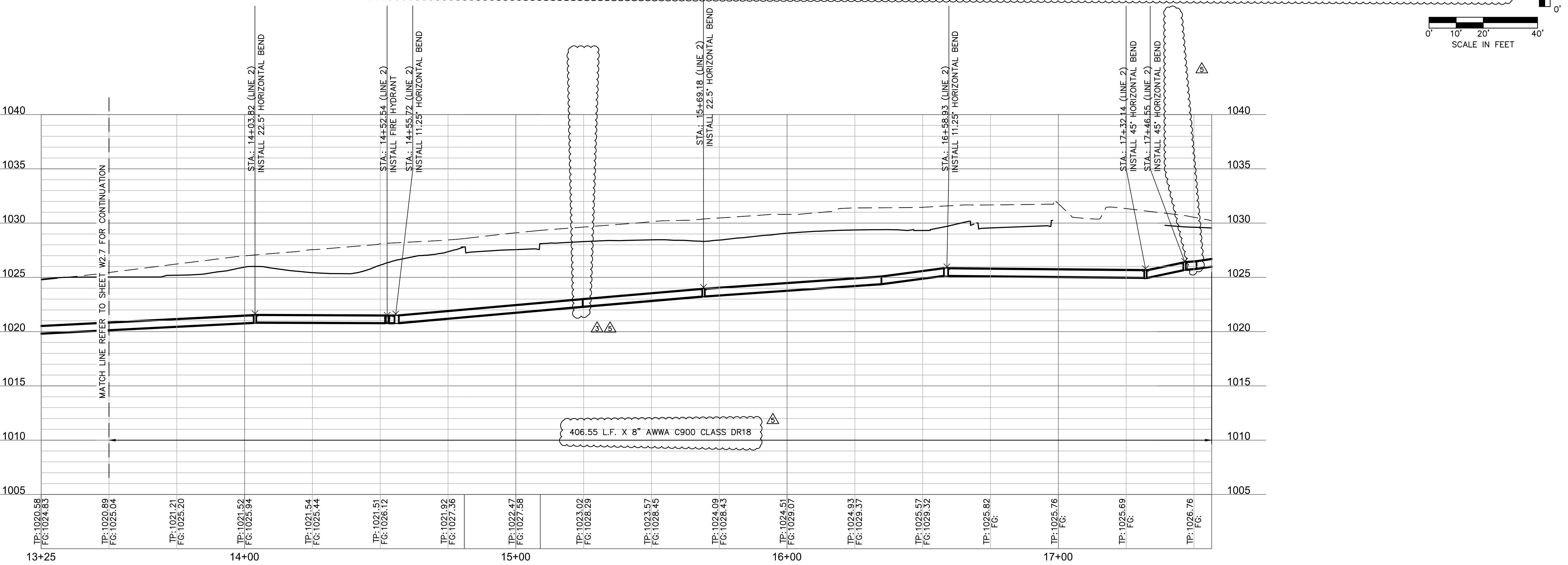
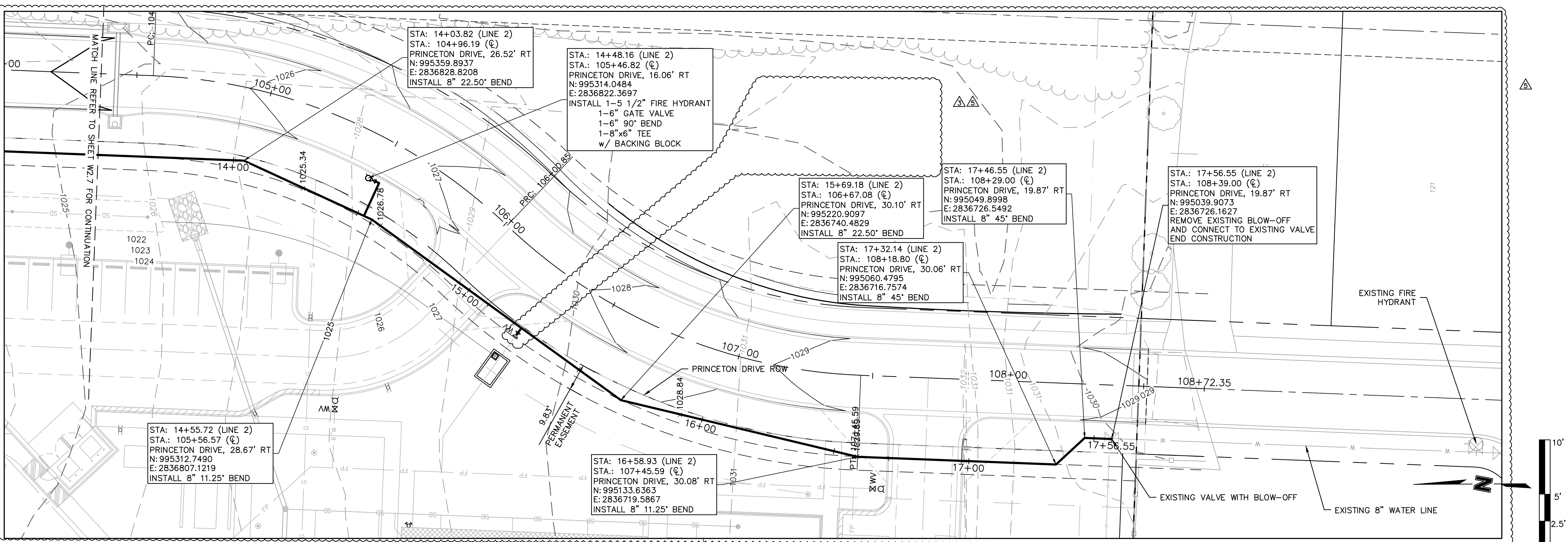
THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

2019

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.7



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STATE OF MISSOURI
FRED J. SCHLEGER
NUMBER
FC-000022003
08/15/19

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REV. NO.

DATE

REVISIONS DESCRIPTION

5

08/15/19

ENGR. REVIEW COMMENTS

3

07/19/2019

ENGR. REVIEW COMMENTS

WATER MAIN EXTENSION
LINE 2 PLAN AND PROFILE

THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

2019

drawn by: TMH
designed by: FJS
checked by: JLR
project no.: 018-1450
drawing no.: C_WPP_81450
date: 08.15.19

SHEET
W2.8

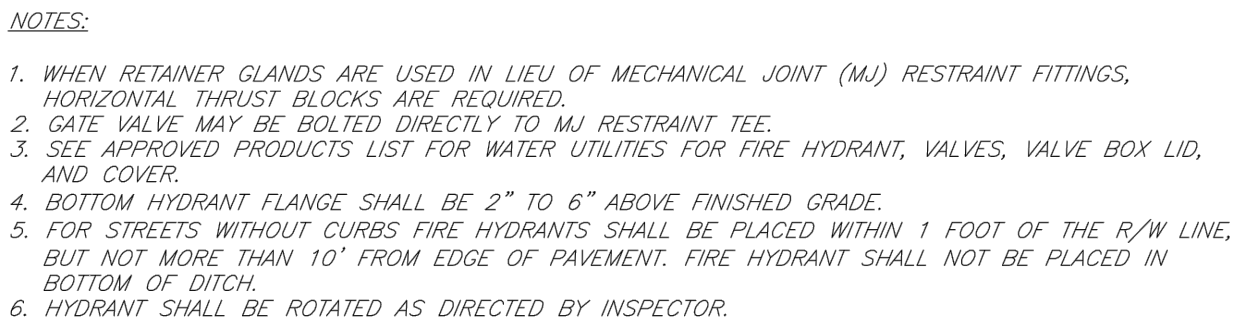
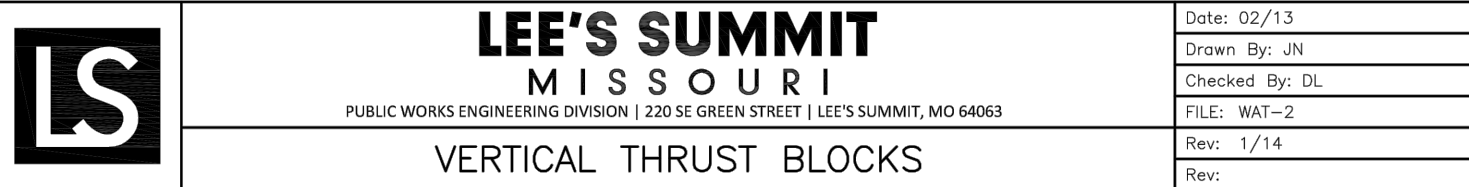
NOTES:

1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.
5. ALL DUCTILE IRON FITTINGS SHALL BE POLYETHYLENE WRAPPED.



NOTES:

1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.
5. USE POLYETHYLENE AROUND ALL FITTINGS AND COAT BOLTS PER SPECS.

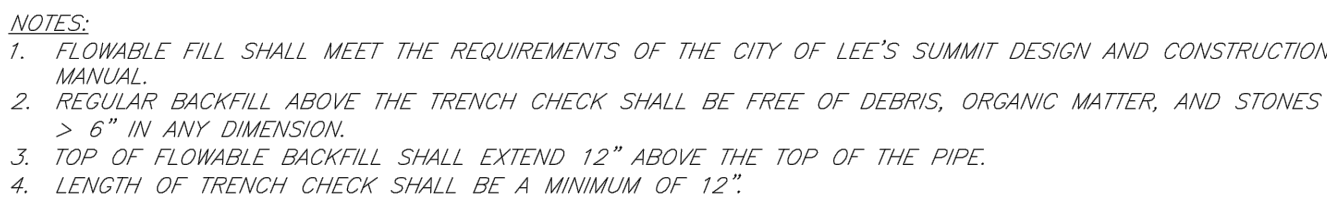
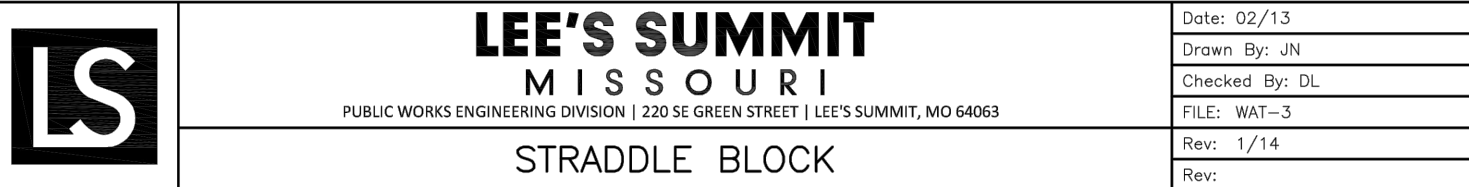




LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HYDRANT INSTALLATION — STRAIGHT SET





LEE'S SUMMIT
MISSOURI

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TRENCH CHECK

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF LEE'S SUMMIT'S "DESIGN AND CONSTRUCTION MANUAL".
2. SEE LEE'S SUMMIT'S "DESIGN AND CONSTRUCTION MANUAL" FOR LIST OF APPROVED VENDORS

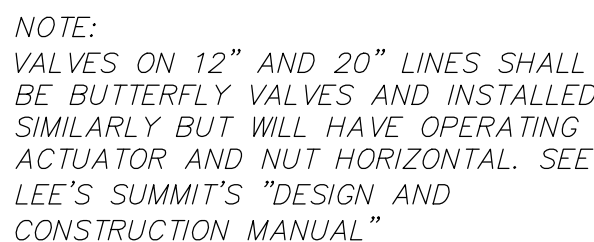
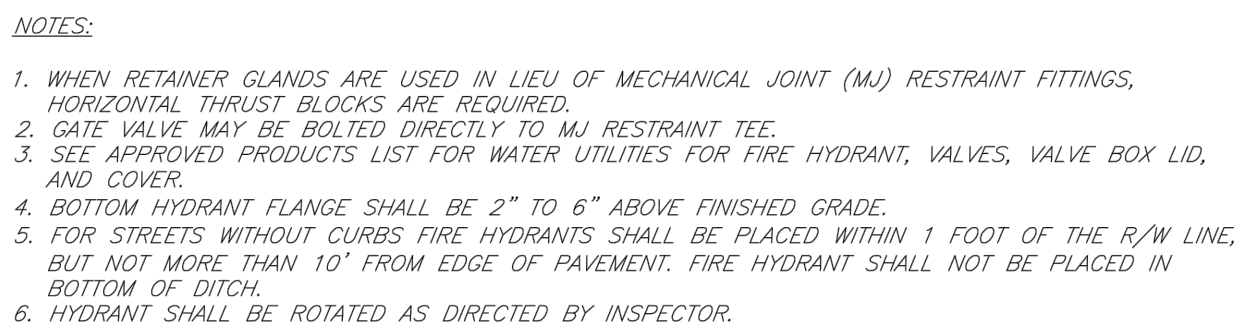
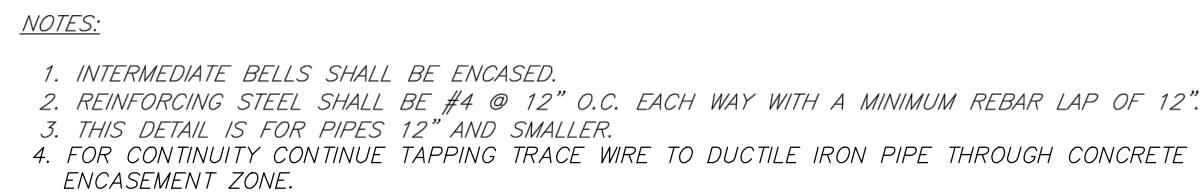
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REV. NO.	DATE	REVISIONS DESCRIPTION
5	08/15/2019	ENGR. REVIEW COMMENTS
3	07/19/2019	ENGR. REVIEW COMMENTS
REVISIONS		

PUBLIC WATER MAIN EXTENSION WATER SYSTEM DETAILS	2019
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY	
LEE'S SUMMIT, MISSOURI	

SHEET
W3.0

WAT-10