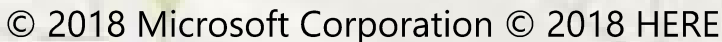


SECTION 2, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MO

ACCEPTED:

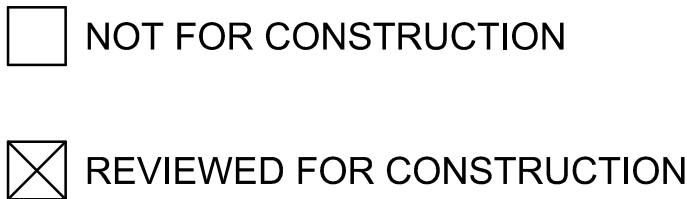
11/1/2020

DATE _____

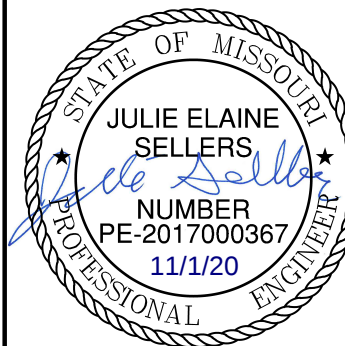
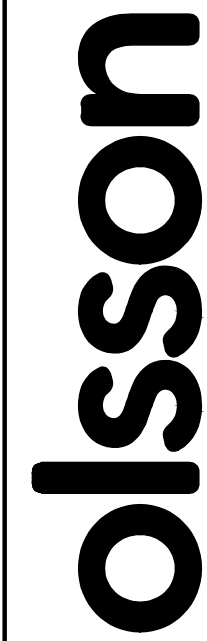
OF JOHN KNOX RETIREMENT VILLAGE-10TH PLAT, A SUBDIVISION RECORDED AS INSTRUMENT NUMBER 1279980 IN BOOK 35 AT PAGE 61 IN JACKSON COUNTY RECORDER OF DEEDS OFFICE, AND ALL OF FOREST LAKE AT JOHN KNOX VILLAGE - 1ST PLAT A SUBDIVISION RECORDED AS INSTRUMENT NUMBER E0051292 IN BOOK 106 AT PAGE 42 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE, BOTH SUBDIVISIONS OF LAND IN THE NORTHEAST QUARTER OF SECTION 2, TOWNSHIP 47 NORTH, RANGE 32, WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AND ALSO AN UNPLATTED TRACT OF LAND IN SAID NORTHEAST QUARTER AND SOUTHEAST QUARTER OF SAID SECTION 2, BEING BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 02°53'56" EAST, ON THE EAST LINE OF SAID SOUTHEAST QUARTER, 1,328.34 FEET TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID SOUTHEAST QUARTER ALSO BEING THE NORTHEAST CORNER OF STERLING HILLS 1ST PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 1188888 IN BOOK 153 AT PAGE 22 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 87°49'43" WEST, 580.01 FEET ON THE SOUTH LINE OF SAID NORTH HALF OF SAID SOUTHEAST QUARTER, ALSO BEING THE NORTH LINE OF SAID STERLING HILLS 1ST PLAT TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE CONTINUING NORTH 87°49'43" WEST ON SAID SOUTH LINE OF SAID NORTH HALF OF SAID SOUTHEAST QUARTER, ALSO BEING THE NORTH LINE OF SAID STERLING HILLS 1ST PLAT AND ALSO ON THE NORTH LINE OF STERLING HILLS 3RD PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 11221580 IN BOOK 153 AT PAGE 96 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE, ALSO BEING A POINT TO THE EAST LINE OF STERLING HILLS 5TH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 11273788 IN BOOK 154 AT PAGE 88 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE, 2,048.69 FEET TO THE SOUTHWEST CORNER OF SAID NORTH HALF OF SAID SOUTHEAST QUARTER; THENCE NORTH 03°05'41" EAST ON SAID EAST LINE OF STERLING HILLS 5TH PLAT, ALSO BEING THE WEST LINE OF SAID SOUTHEAST QUARTER, 399.26 FEET; THENCE NORTH 85°54'26" EAST, 236.75 FEET; THENCE NORTH 29°55'27" EAST, 306.11 FEET; THENCE NORTH 41°11'03" EAST, 60.06 FEET; THENCE SOUTH 75°51'31" EAST, 21.43 FEET; THENCE NORTH 22°12'04" EAST, 173.03 FEET; THENCE WESTERLY, ALONG A CURVE TO THE LEFT, HAVING AN INITIAL TANGENT BEARING OF NORTH 81°09'01" WEST WITH A RADIUS OF 225.00 FEET, A CENTRAL ANGLE OF 15°28'14" AND AN ARC DISTANCE OF 60.75 FEET; THENCE NORTH 86°37'15" WEST, 50.00 FEET; THENCE EASTERLY ALONG A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF NORTH 83°22'45" EAST WITH A RADIUS OF 275.00 FEET, A CENTRAL ANGLE OF 28°01'47" AND AN ARC DISTANCE OF 134.53 FEET; THENCE NORTH 21°24'34" EAST, 135.10 FEET; THENCE NORTH 19°29'26" EAST, 951.56 FEET; THENCE SOUTH 82°32'24" WEST, 137.42 FEET; THENCE NORTH 85°52'23" EAST, 130.71 FEET; THENCE NORTH 95°00'18" EAST, 128.42 FEET; THENCE WESTERLY, ALONG A CURVE TO THE LEFT, HAVING AN INITIAL TANGENT BEARING OF NORTH 70°53'33" WEST WITH A RADIUS OF 375.00 FEET, A CENTRAL ANGLE OF 10°37'37" AND AN ARC DISTANCE OF 59.88 FEET; THENCE NORTH 10°50'30" EAST, 50.00 FEET; THENCE EASTERLY ALONG A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF SOUTH 78°09'30" EAST WITH A RADIUS OF 425.00 FEET, A CENTRAL ANGLE OF 09°42'06" AND AN ARC DISTANCE OF 71.96 FEET; THENCE NORTH 20°32'36" EAST, 229.10 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF THE SOUTH HALF OF SAID NORTHEAST QUARTER; THENCE NORTH 87°37'42" WEST, ON SAID NORTH LINE OF SAID SOUTH HALF OF SAID NORTHEAST QUARTER, 574.95 FEET TO THE SOUTHEAST CORNER OF THE FORESTS OF BROOKRIDGE ESTATES THIRD PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 1198645 IN BOOK 153 AT PAGE 46 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 03°27'53" EAST, ON THE EAST LINE OF SAID THE FORESTS OF BROOKRIDGE ESTATES - THIRD PLAT, 765.70 FEET TO THE SOUTHWEST CORNER OF LOT 1, VILLAGE CARE CENTER PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 1736897 IN BOOK 143 AT PAGE 122 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE SOUTH 87°23'49" EAST, ON THE SOUTH LINE OF SAID LOT 1, ALSO A PORTION BEING ON THE NORTH LINE OF SAID JOHN KNOX RETIREMENT VILLAGE-10TH PLAT AND SAID FOREST LAKE AT JOHN KNOX VILLAGE-1ST PLAT 1,343.71 FEET TO THE NORTHEAST CORNER OF SAID FOREST LAKE AT JOHN KNOX VILLAGE 1ST PLAT, ALSO BEING A POINT ON THE EXISTING WEST RIGHT-OF-WAY LINE OF NW PRYOR ROAD, AS NOW ESTABLISHED; THENCE SOUTH 03°27'53" WEST, ON SAID EXISTING WEST RIGHT-OF-WAY LINE ALSO BEING THE EAST LINE OF FOREST LAKE AT JOHN KNOX VILLAGE-1ST PLAT FOR THE NORTH 243.74 FEET, 481.43 FEET; THENCE NORTH 86°32'07" WEST, 479.89 FEET; THENCE SOUTH 03°27'53" WEST, 70.20 FEET; THENCE NORTH 86°32'07" WEST, 200.00 FEET; THENCE SOUTH 03°27'53" WEST, 221.62 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID NORTHEAST QUARTER; THENCE SOUTH 87°37'42" EAST ON SAID NORTH LINE OF SAID SOUTH HALF OF SAID SOUTH HALF OF SAID NORTHEAST QUARTER, 200.04 FEET TO THE NORTHWEST CORNER OF LOT 1, JOHN KNOX RETIREMENT VILLAGE 9TH PLAT, A SUBDIVISION IN LEE'S SUMMIT RECORDED AS INSTRUMENT NUMBER 1274676 IN BOOK 35 AT PAGE 42 IN SAID JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE SOUTH 03°27'53" WEST, ON THE WEST LINE OF SAID JOHN KNOX RETIREMENT VILLAGE 9TH PLAT 400.00 FEET TO THE SOUTHWEST CORNER OF SAID JOHN KNOX RETIREMENT VILLAGE 9TH PLAT; THENCE SOUTH 04°27'07" WEST, 289.53 FEET; THENCE NORTH 85°32'53" WEST, 175.00 FEET; THENCE SOUTH 04°27'07" WEST, 425.00 FEET; THENCE SOUTH 85°32'53" EAST, 175.00 FEET; THENCE SOUTH 04°27'07" WEST, 484.59 FEET; THENCE SOUTH 02°53'56" WEST, 385.97 FEET TO THE POINT OF BEGINNING. CONTAINING 3,360,308 SQUARE FEET OR 77.14 ACRES, MORE OR LESS.

BMK #5 CHISELED SQUARE ON THE S.E. CORNER OF A CONCRETE PAD FOR A TRAFFIC SIGNAL BOX AT THE S.W. CORNER OF PRYOR ROAD AND O'BRIEN ROAD.

ELEVATION: 979.24



ASBUILT
10-28-2020



REVISIONS

drawn by: D.A.H.C.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1146
date: 2019.03.12

SHEET
C301

MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.361.1177
www.djssson.com



VALVES

NEW

EXISTING

W

10

3

OTHERS

PROPERTY LINE

STOP SIGN

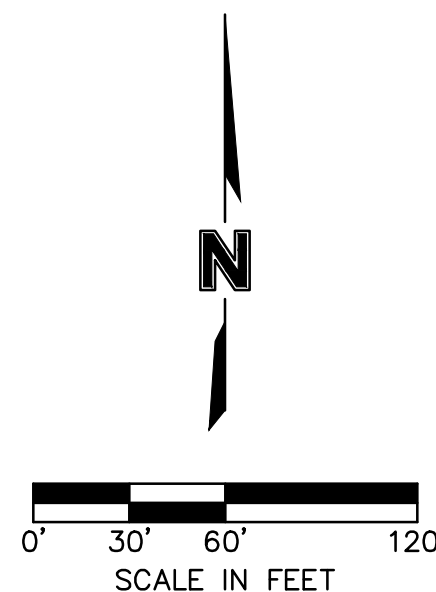
END OF ROAD TREATMENT

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 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.

ASBUILT
10-28-2020



3Y

REVISIONS DESCRIPTION

TE

NO.

GENERAL LAYOUT WATER MAIN EXTENSION

WOODSIDE RIDGE
FIRST PLAT

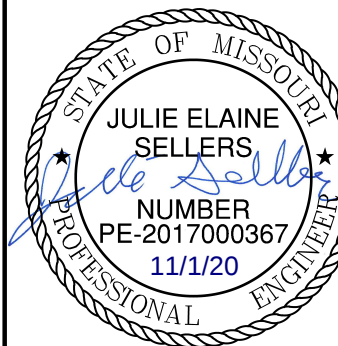
2019

LEE'S SUMMIT MO

drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

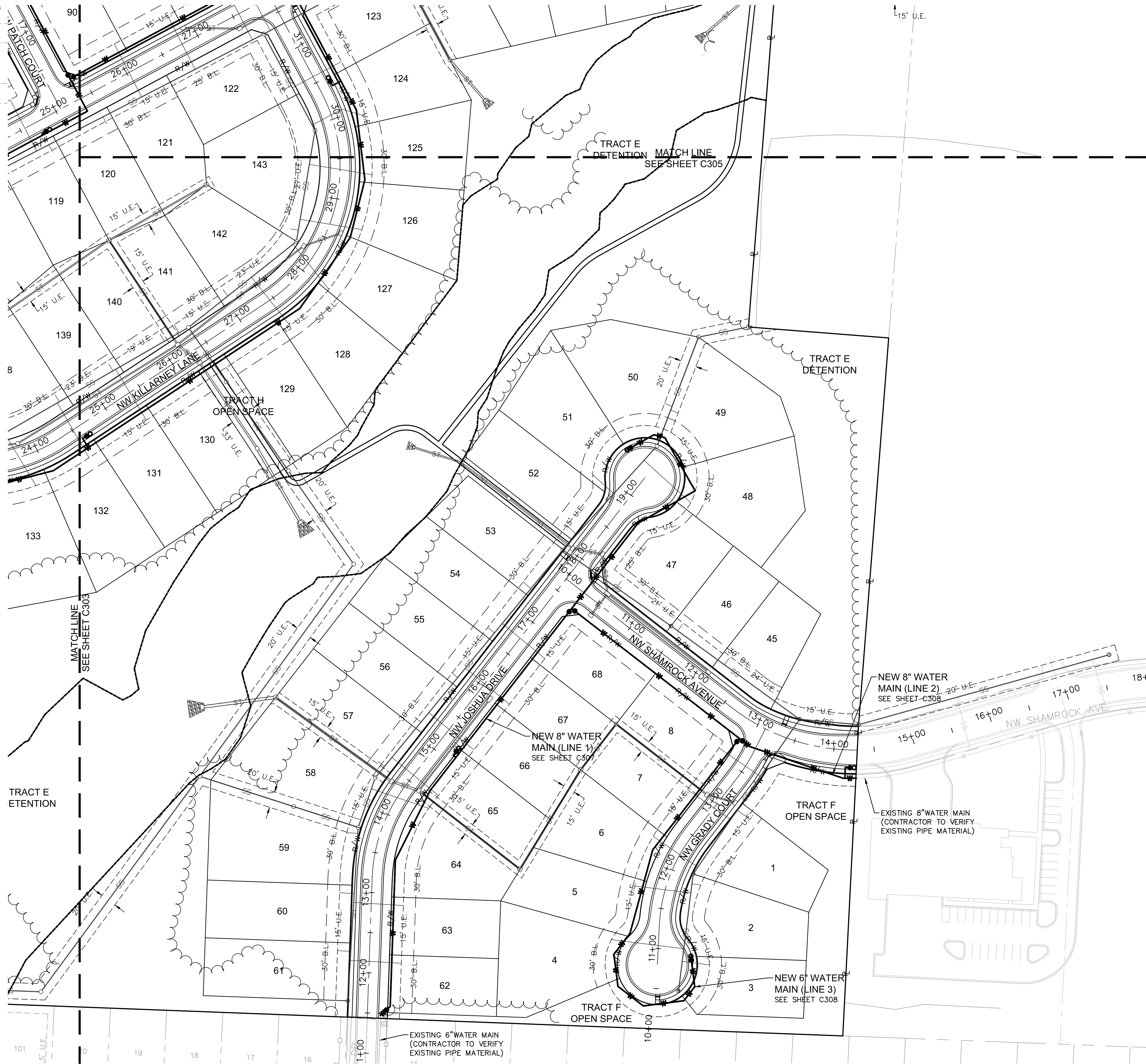
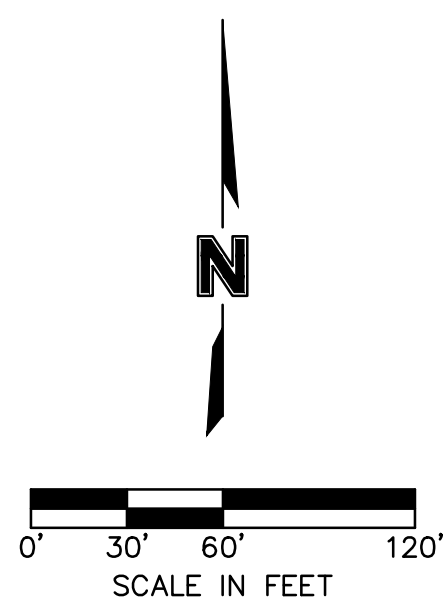
SHEET
C303

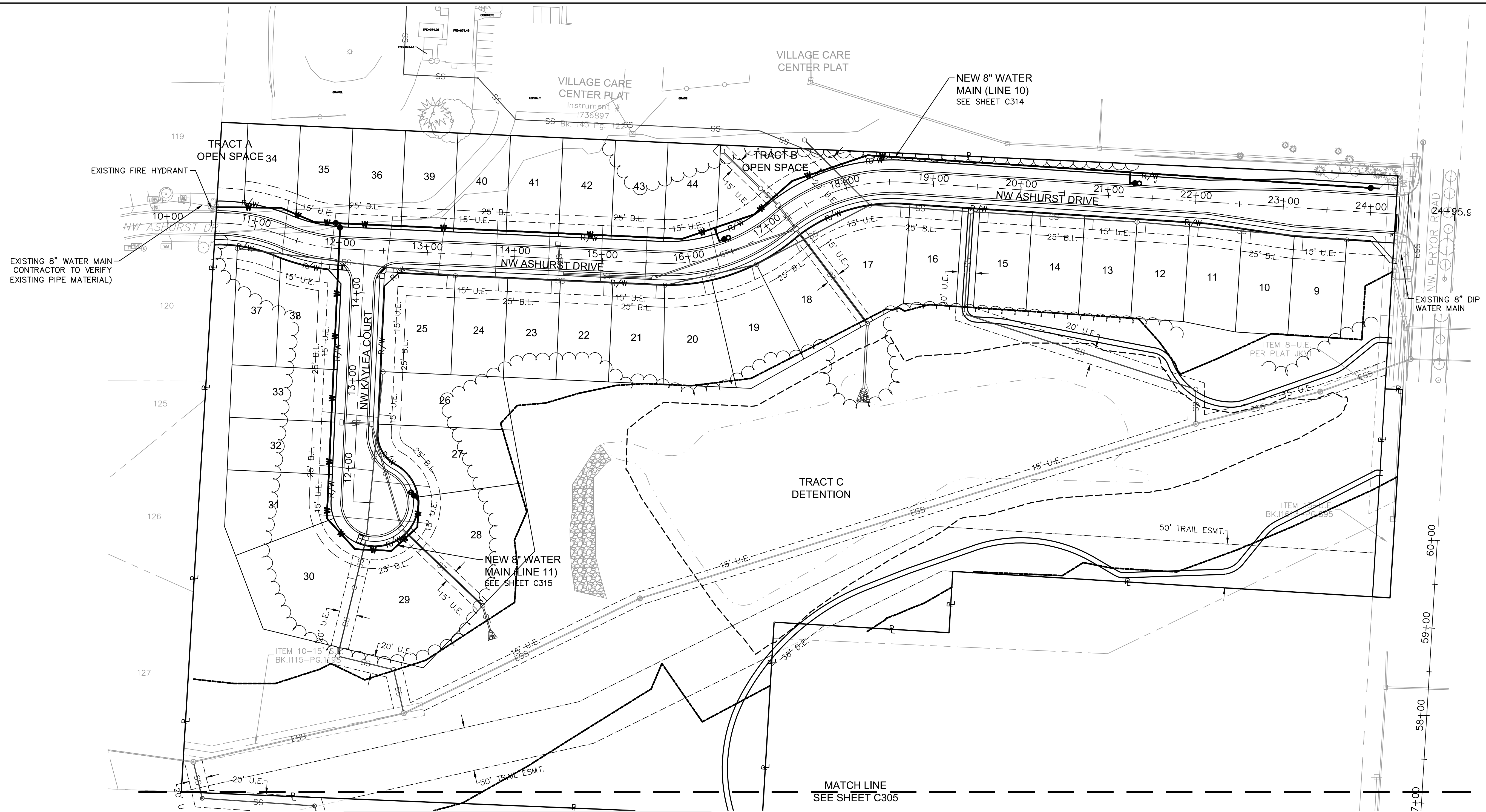
Olsson



MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116

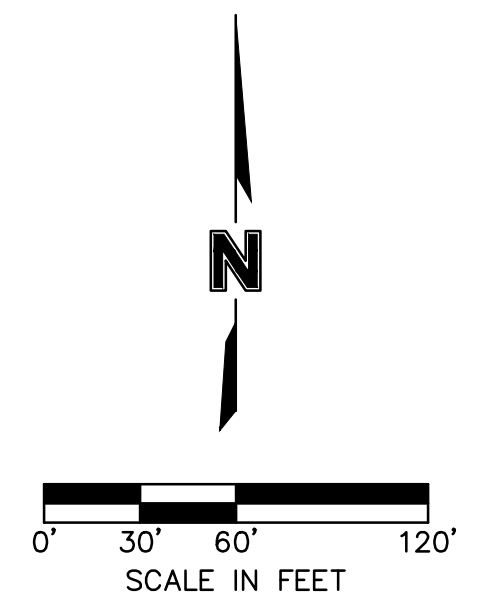
TEI 816 361 1177
www.olsson.com





Key Map

ASBUILT
10-28-2020



STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
11/1/20
PROFESSIONAL ENGINEER

[illegible]

GENERAL LAYOUT WATER MAIN EXTENSION	2019
WOODSIDE RIDGE FIRST PLAT	

Drawn by: D.A.H.O
 Checked by: J.E.S
 Designed by: S.M.S
 A/QC by: M.G.D
 Project no.: A18-1140
 Date: 2019.03.12

SHEET
C306

DWG: F:\2018\1001-1500\018-1140-A\40-Design\AutoCAD\Final Plans\Sheets\GNCV\01_Water_36x24 - ASB\C_GEN02_1140A.dwg
DATE: Oct 28, 2020 10:58am
USER: gsmith

ASBUILT

10-28-2020

STA.: 10+00.00 (WATER LINE 1)
=STA.: 11+47.40' (E)
NW JOSHUA DRIVE, +6.37' RT
N:1000951.3610
E:2812218.6969
AFTER TESTING & CHLORINATION
REMOVED EXISTING BLOW-OFF AND
CONNECTED TO EXISTING 6" WATER
MAIN WITH 8"x6" REDUCER
INSTALLED 1-8" 45° BEND

EXISTING 6" WATER MAIN
(CONTRACTOR TO VERIFY
EXISTING PIPE MATERIAL)

STA.: 11+98.84 (WATER LINE 1)
=STA.: 13+45.05' (E)
NW JOSHUA DRIVE, -26.43' RT
N:1001144.8473
E:2812237.1889
INSTALLED 1-8" 22.50° BEND
WITH THRUST BLOCK

STA.: 12+95.94 (WATER LINE 1)
=STA.: 14+56.65' (E)
NW JOSHUA DRIVE, -28.00' RT
N:1001231.6609
E:2812280.6882
INSTALLED 1-8" 11.25° BEND
WITH THRUST BLOCK

STA.: 10+16.45 (WATER LINE 1)
=STA.: 11+59.04' (E)
NW JOSHUA DRIVE, -28.00' RT
N:1000962.5770
E:2812230.7354
INSTALLED 1-8" 45° BEND
WITH THRUST BLOCK

STA.: 15+78.56 (WATER LINE 1)
STA.: 17+39.27' (E)
NW JOSHUA DRIVE, 28.05' RT
N:1001454.7540
E:2812454.1940
INSTALLED GATE VALVE
AS BUILT IS 0.4' N
AND 0.71' E OF PLAN.

STA.: 15+82.46 (WATER LINE 1)
=STA.: 10+00.00 (WATER LINE 2)
=STA.: 17+43.17' (E)
NW JOSHUA DRIVE, -28.00' RT
N:1001457.8815
E:2812456.5516
INSTALLED 1-8"x8" TEE
WITH THRUST BLOCK
2-8" GATE VALVES (E,S)

AS BUILT IS 0.88' E
AND 1.54' S OF PLAN.
STA.: 13+58.26 (WATER LINE 1)
=STA.: 15+19.65' (E)
NW JOSHUA DRIVE, -23.73' RT
N:1001282.48
E:2812316.87
INSTALLED 1-5" FIRE HYDRANT
1-6" GATE VALVE
1-6" 90° BEND
1-8"x6" TEE
W/ THRUST BLOCK

STA.: 17+16.69 (WATER LINE 1)
=STA.: 18+77.40' (E)
NW JOSHUA DRIVE, -28.00' RT
N:1001563.8324
E:2812538.9404
INSTALLED 1-8" 22.50° BEND
WITH THRUST BLOCK

STA.: 17+98.76 (WATER LINE 1)
=STA.: 19+53.22' (E)
NW JOSHUA DRIVE, -59.40' RT
N:1001604.4120
E:2812610.2686
INSTALLED 1-8" 90° BEND
WITH THRUST BLOCK

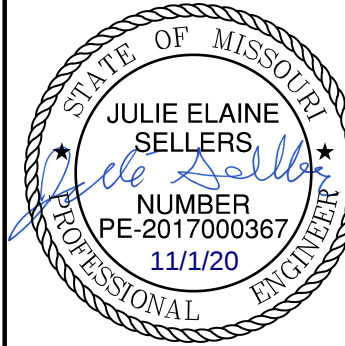
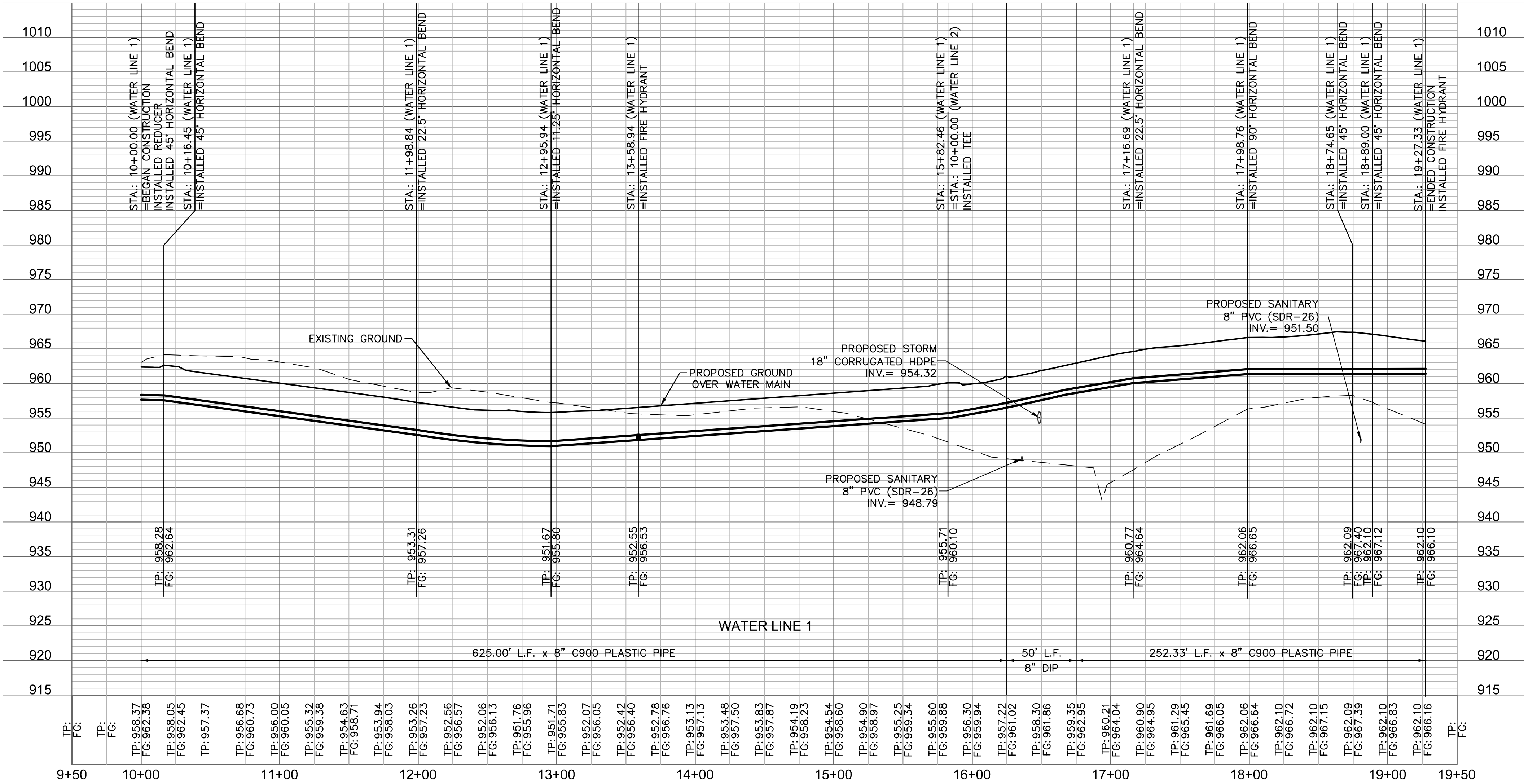
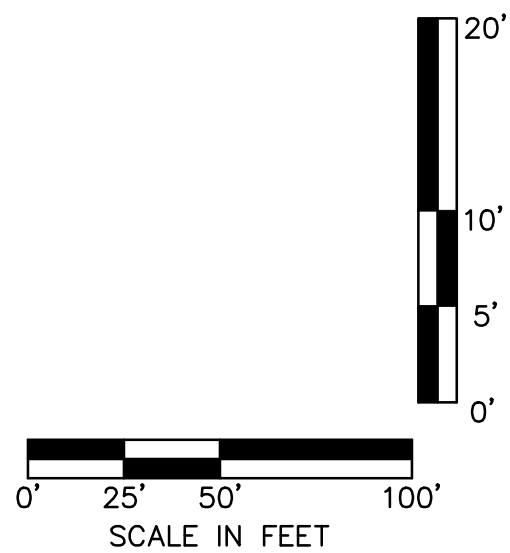
STA.: 18+74.65 (WATER LINE 1)
=STA.: 19+82.26' (E)
NW JOSHUA DRIVE, -10.71' LT
N:1001670.3790
E:2812572.7391
INSTALLED 1-8" 45° BEND
WITH THRUST BLOCK

ASBUILT IS 1.53' E
AND 1.73' N OF PLAN.
STA.: 19+27.33 (WATER LINE 1)
=STA.: 19+41.36' (E)
NW JOSHUA DRIVE, -38.64' LT
N:1001655.2302
E:2812525.5892
INSTALLED 1-5" FIRE HYDRANT
1-6" GATE VALVE

STA.: 19+27.33 (WATER LINE 1)
=STA.: 19+41.36' (E)
NW JOSHUA DRIVE, -38.64' LT
N:1001655.2302
E:2812525.5892
INSTALLED 1-5" FIRE HYDRANT
1-6" GATE VALVE

STA.: 18+89.00 (WATER LINE 1)
=STA.: 19+76.77' (E)
NW JOSHUA DRIVE, -23.97' LT
N:1001674.1814
E:2812558.9004
INSTALLED 1-8" 45° BEND
WITH THRUST BLOCK

- NOTES:
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND COMMUNICATE WITH ENGINEER IF DIFFERENT THAN PLANS.
 2. CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 4' MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.
 3. CONTRACTOR SHALL NOT INSTALL GATE VALVES WITHIN ADA RAMPS.
 4. MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISH GRADE.



NO.	REV.	DATE	DESCRIPTION
1		03/12/2019	REVISED PER CITY COMMENTS
2		10/27/2020	ASBUILT SUBMITTAL

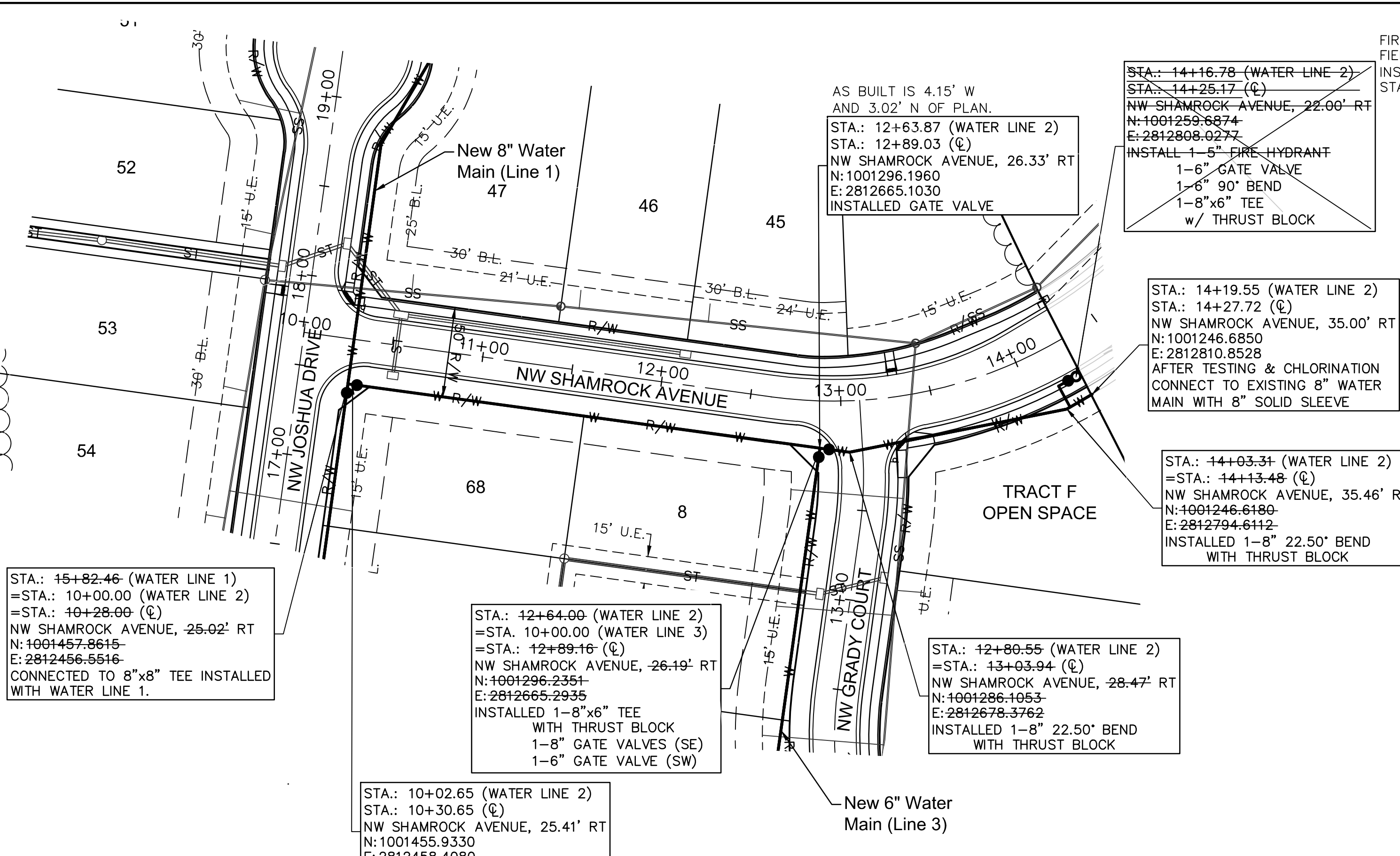
WATER MAIN PLAN & PROFILE WATER MAIN EXTENSION	WOODSIDE RIDGE FIRST PLAT	2019	LEE'S SUMMIT, MO

drawn by: _____	D.A.H.
checked by: _____	J.E.
designed by: _____	S.M.
QA/QC by: _____	M.G.
project no.: _____	A18-114
date: _____	2019.03.14

SHEET C307

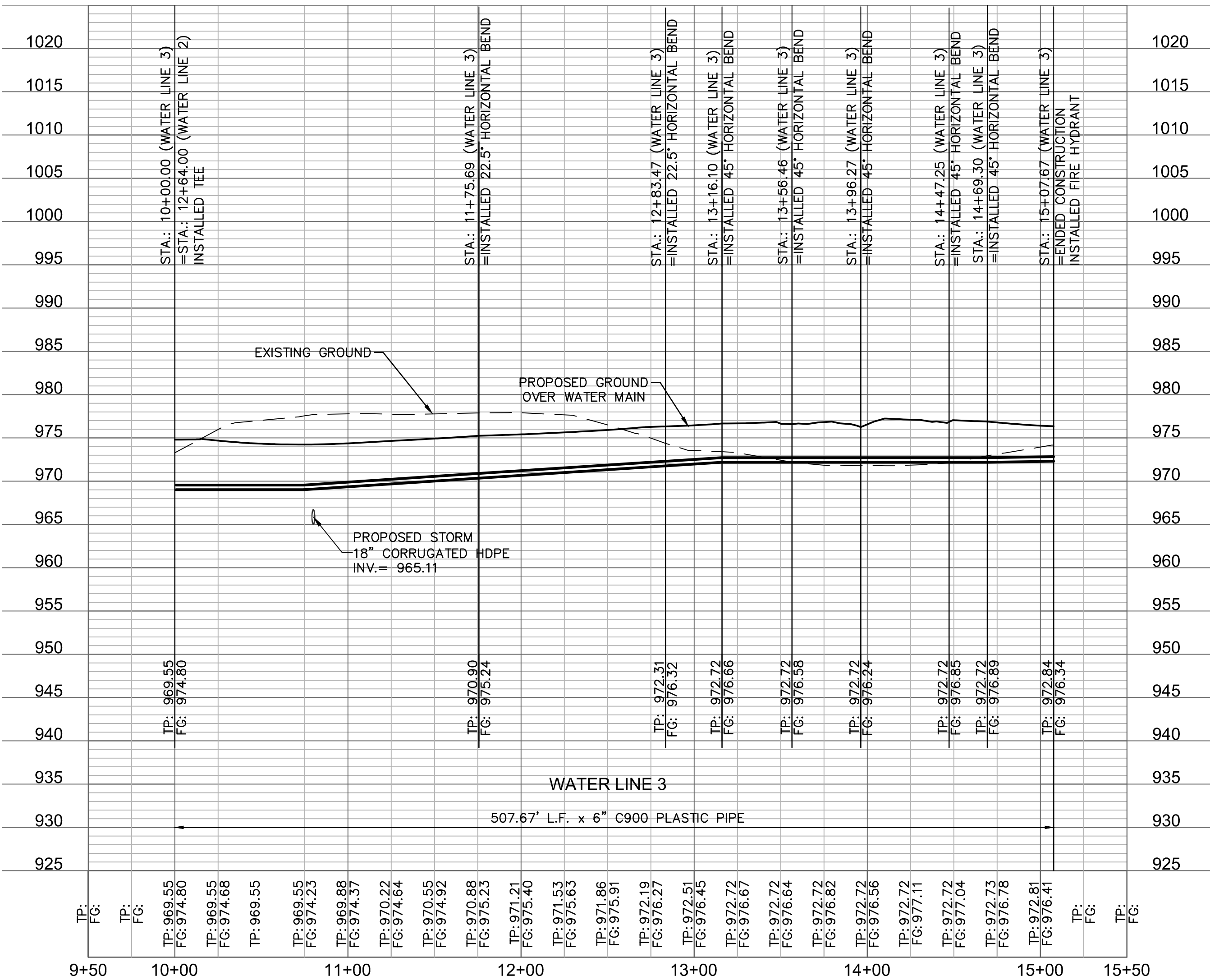
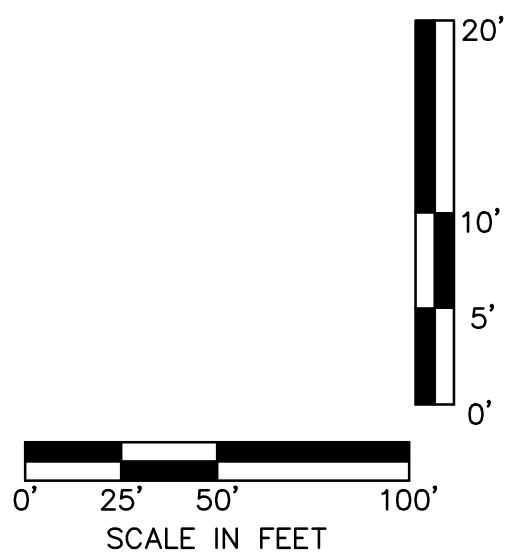
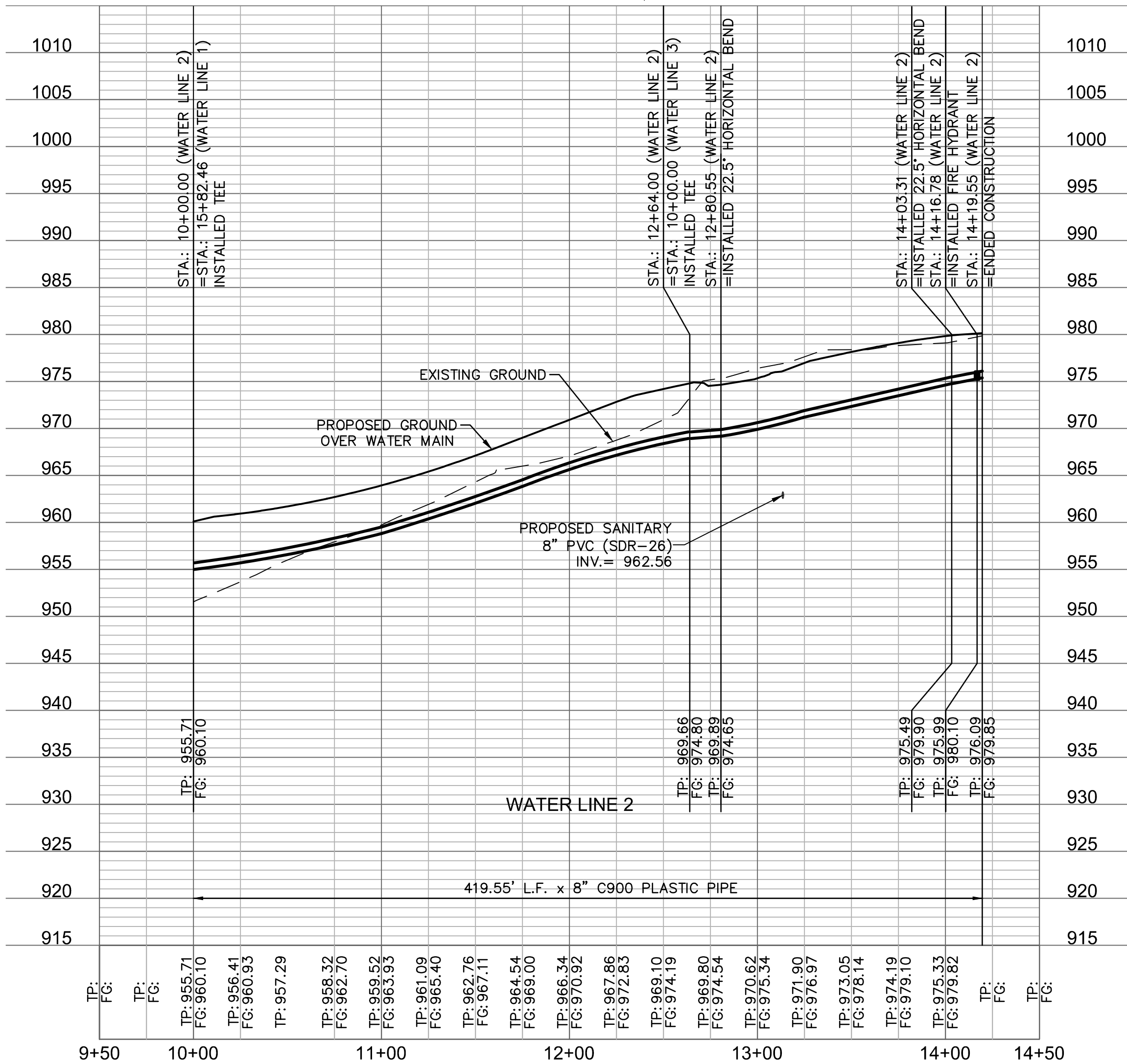
drawn by: D.A.H.Q.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

SHEET
C307



ASBUILT
10-28-2020

- NOTES:
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND COMMUNICATE WITH ENGINEER IF DIFFERENT THAN PLANS.
 - CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 4' MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.
 - CONTRACTOR SHALL NOT INSTALL GATE VALVES WITHIN ADA RAMPS.
 - MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISH GRADE.



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NO. REV. DATE NO. REV. DATE NO. REV. DATE NO. REV. DATE NO. REV. DATE

10/21/2019 10/27/2020

REVISIONS DESCRIPTION

WATER MAIN PLAN & PROFILE
WATER MAIN EXTENSION

WOODSIDE RIDGE
FIRST PLAT

LEE'S SUMMIT, MO

2019

SHEET C308

drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
11/1/20

NO. REV. DATE NO. REV. DATE NO. REV. DATE NO. REV. DATE NO. REV. DATE

10/21/2019 10/27/2020

REVISIONS DESCRIPTION

WATER MAIN PLAN & PROFILE
WATER MAIN EXTENSION

WOODSIDE RIDGE
FIRST PLAT

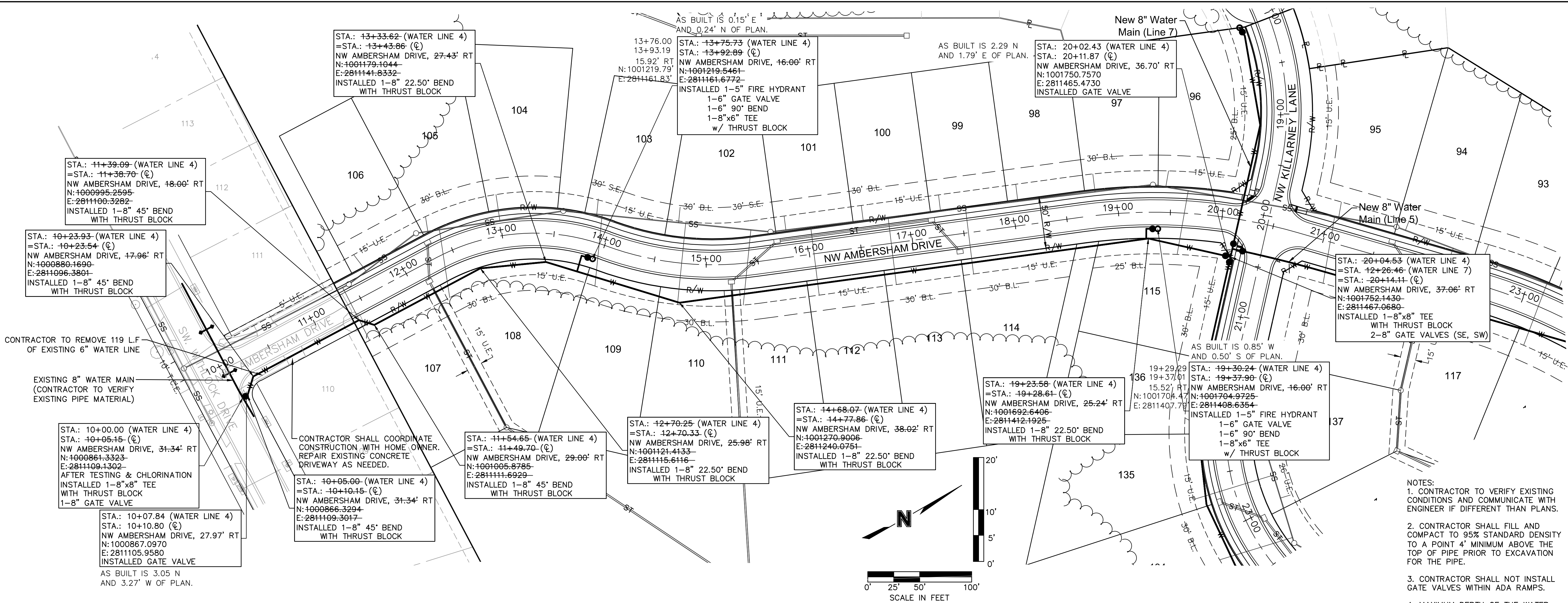
LEE'S SUMMIT, MO

2019

SHEET C308

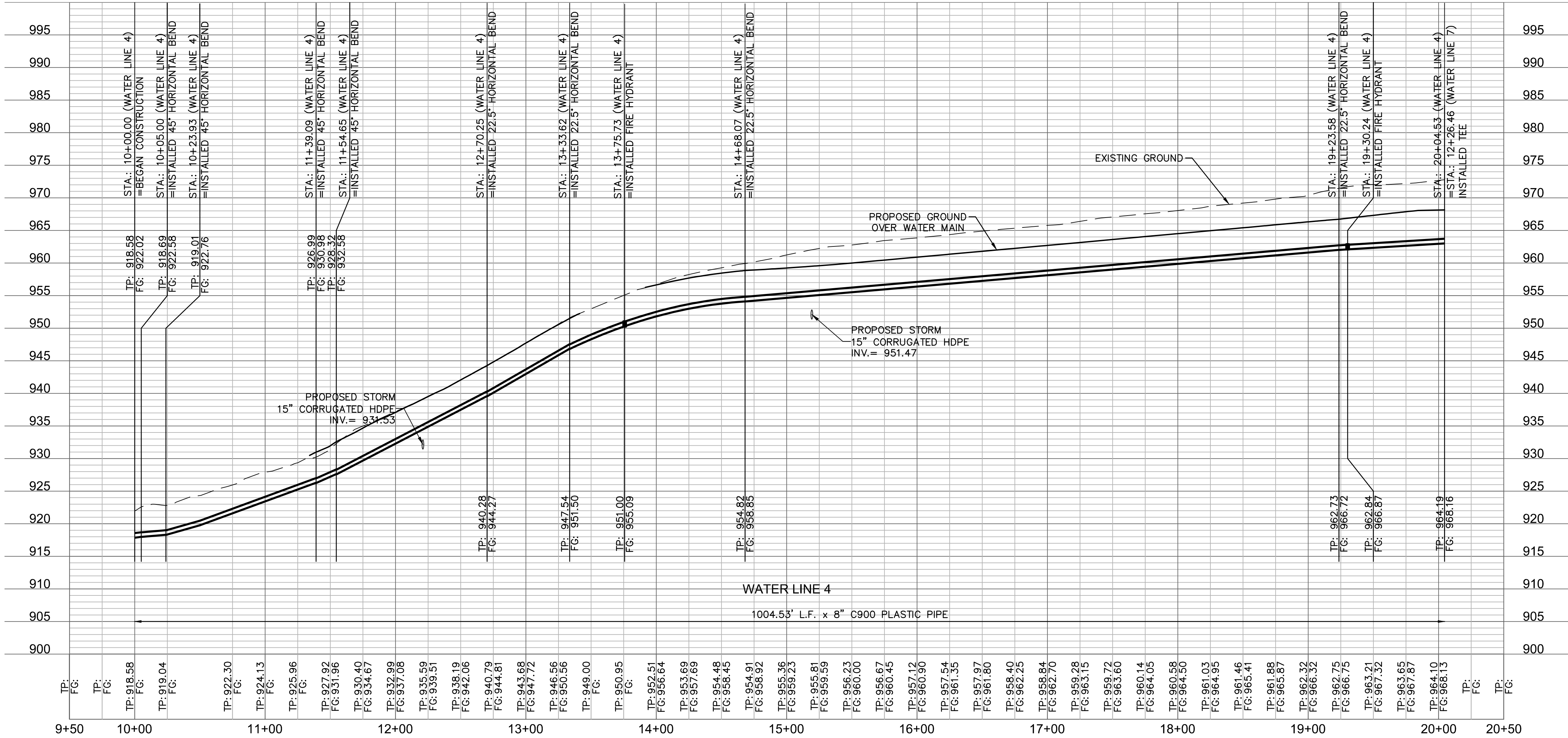
drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
11/1/20



- NOTES:
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND COMMUNICATE WITH ENGINEER IF DIFFERENT THAN PLANS.
 2. CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 4' MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.
 3. CONTRACTOR SHALL NOT INSTALL GATE VALVES WITHIN ADA RAMPS.
 4. MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISH GRADE.

ASBUILT
10-28-2020



olsson

NO. Certificate of Authority # 001892
301 E. BURLINGTON SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.351.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
11/1/20

NO. REV.	DATE	REVISIONS DESCRIPTION	BY
1	10/27/2020	ASBUILT SUBMITTAL	

WATER MAIN PLAN & PROFILE
WATER MAIN EXTENSION

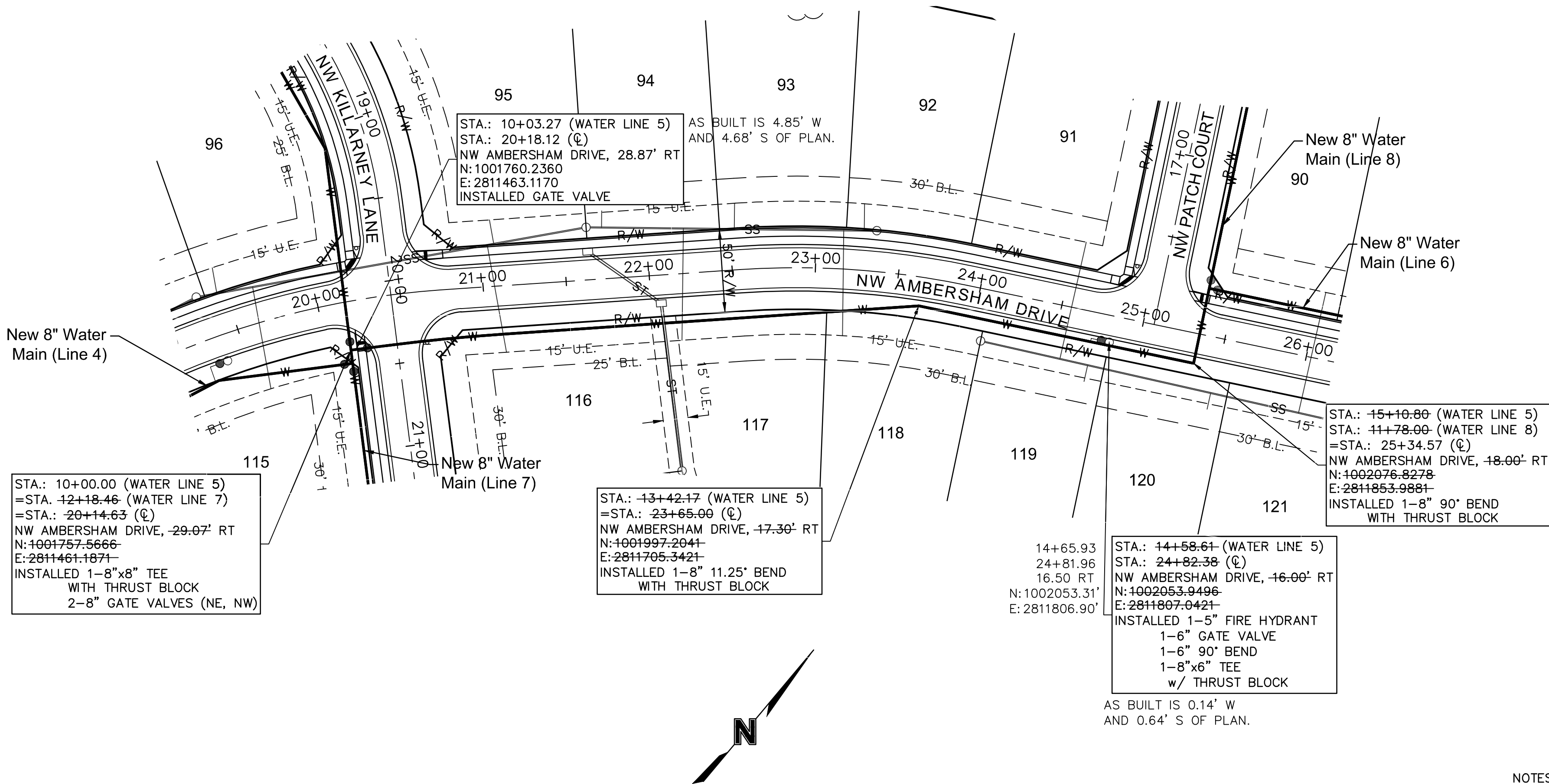
WOODSIDE RIDGE
FIRST PLAT

LEE'S SUMMIT, MO

drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

SHEET
C309

2019



STA.: 10+00.00 (WATER LINE 5)
=STA.: 42+18.46 (WATER LINE 7)
=STA.: 20+14.63 (E)
NW AMBERSHAM DRIVE, 29.07' RT
N: 1001757.5666
E: 2811461.1871
INSTALLED 1-8"x8" TEE
WITH THRUST BLOCK
2-8" GATE VALVES (NE, NW)

STA.: 10+03.27 (WATER LINE 5)
STA.: 20+18.12 (E)
NW AMBERSHAM DRIVE, 28.87' RT
N: 1001760.2360
E: 2811463.1170
INSTALLED GATE VALVE

STA.: 13+42.17 (WATER LINE 5)
=STA.: 23+65.06 (E)
NW AMBERSHAM DRIVE, 47.36' RT
N: 1001997.2044
E: 2811705.3421
INSTALLED 1-8" 11.25' BEND
WITH THRUST BLOCK

14+65.93
24+81.96
16.50 RT
N: 1002053.31
E: 2811806.90

STA.: 44+58.61 (WATER LINE 5)
STA.: 24+82.38 (E)
NW AMBERSHAM DRIVE, 46.06' RT
N: 1002053.9496
E: 2811807.0421
INSTALLED 1-5" FIRE HYDRANT
1-6" GATE VALVE
1-6" 90° BEND
1-8"x6" TEE
w/ THRUST BLOCK

AS BUILT IS 0.14' W
AND 0.64' S OF PLAN.

STA.: 15+10.80 (WATER LINE 5)
STA.: 41+78.00 (WATER LINE 8)
=STA.: 25+34.57 (E)
NW AMBERSHAM DRIVE, 48.00' RT
N: 1002076.8278
E: 2811853.9881
INSTALLED 1-8" 90° BEND
WITH THRUST BLOCK

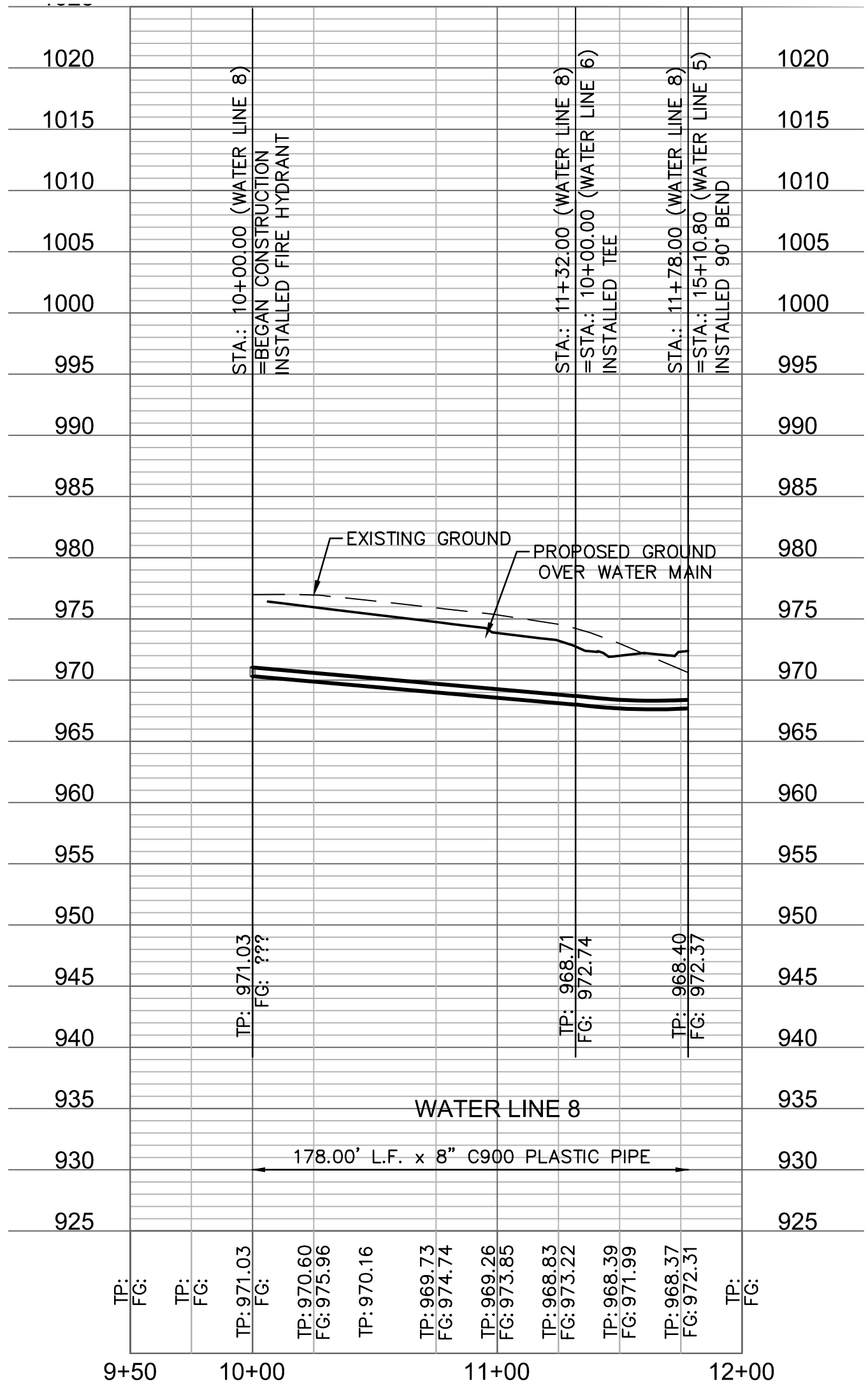
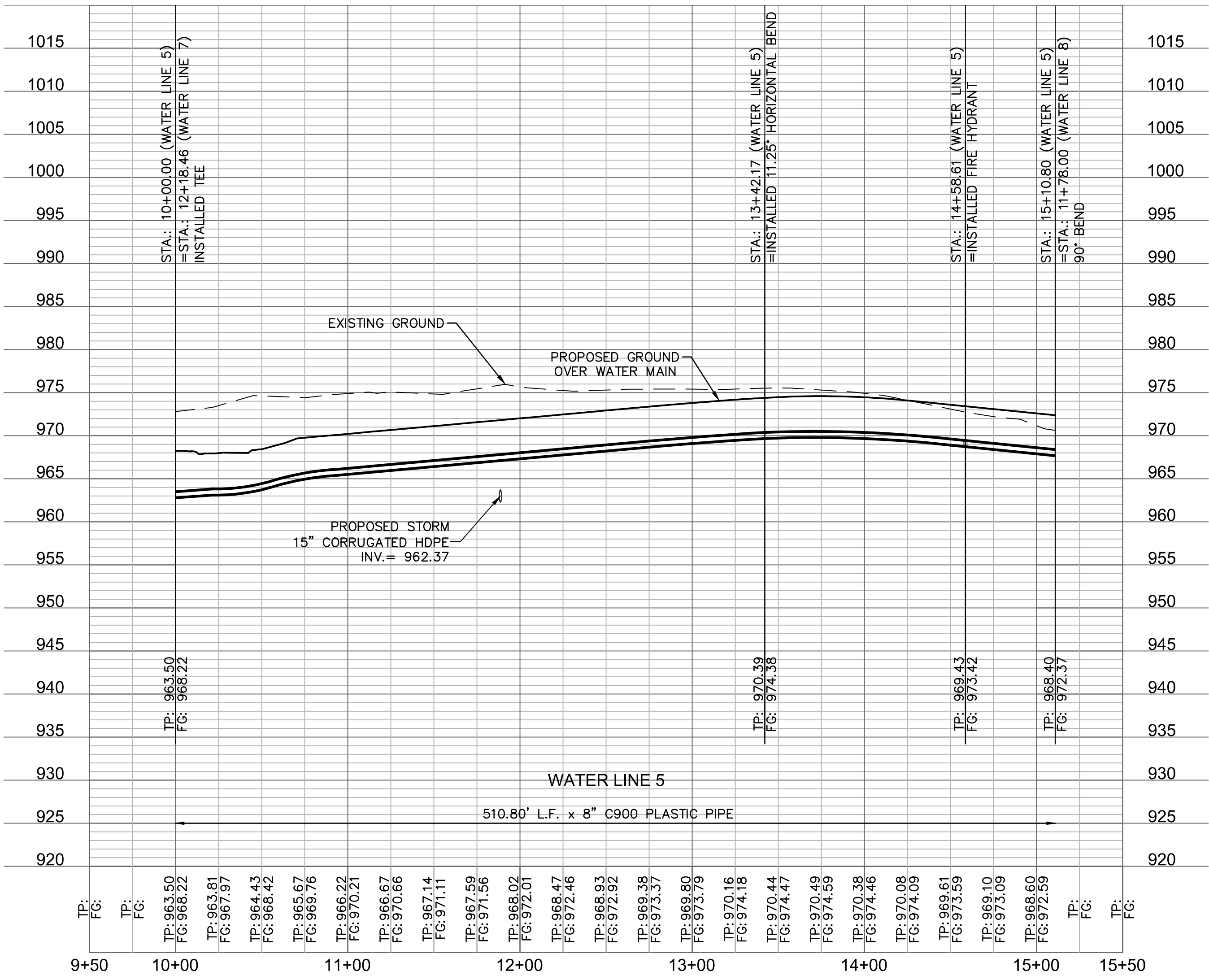
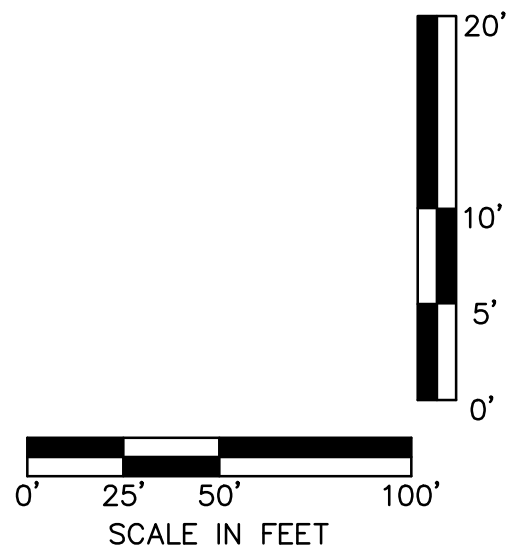
10+03.08
16+46.79
27.99 LT
N: 1002231.02
E: 2811771.39
AS BUILT IS 1.45' E
AND 2.72' S OF PLAN.
STA.: 10+00.00 (WATER LINE 8)
STA.: 46+43.71 (E)
NW PATCH COURT, 28.00' LT
N: 1002233.7348
E: 2811769.9394
=BEGAN CONSTRUCTION
INSTALL TEMPORARY HYDRANT
ASSEMBLY

STA.: 10+00.00 (WATER LINE 6)
=STA.: 11+32.00 (WATER LINE 8)
=STA.: 17+75.71 (E)
NW PATCH COURT, 28.00' LT
N: 1002117.3768
E: 2811832.2677
INSTALLED 1-8"x8" TEE
WITH THRUST BLOCK
2-8" GATE VALVES (N,E)
AS BUILT IS 1.55' E
AND 1.84' S OF PLAN.
STA.: 11+29.35 (WATER LINE 8)
STA.: 17+73.07 (E)
NW PATCH COURT, 28.50' LT
N: 1002119.9450
E: 2811831.4590
INSTALLED GATE VALVE

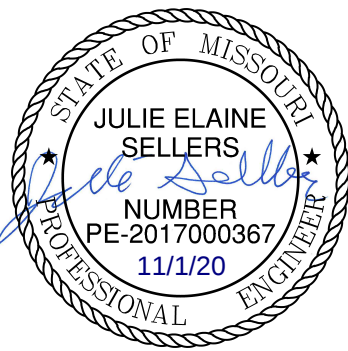
STA.: 15+10.80 (WATER LINE 5)
STA.: 11+78.00 (WATER LINE 8)
=STA.: 25+34.57 (E)
NW AMBERSHAM DRIVE, 48.00' RT
N: 1002076.8278
E: 2811853.9881
INSTALLED 1-8" 90° BEND
WITH THRUST BLOCK

- NOTES:
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND COMMUNICATE WITH ENGINEER IF DIFFERENT THAN PLANS.
 2. CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 4' MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.
 3. CONTRACTOR SHALL NOT INSTALL GATE VALVES WITHIN ADA RAMPS.
 4. MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISH GRADE.

ASBUILT
10-28-2020



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NO. REV.	DATE	REVISIONS DESCRIPTION
1	10/27/2020	ASBUILT SUBMITTAL

WATER MAIN PLAN & PROFILE
WATER MAIN EXTENSION

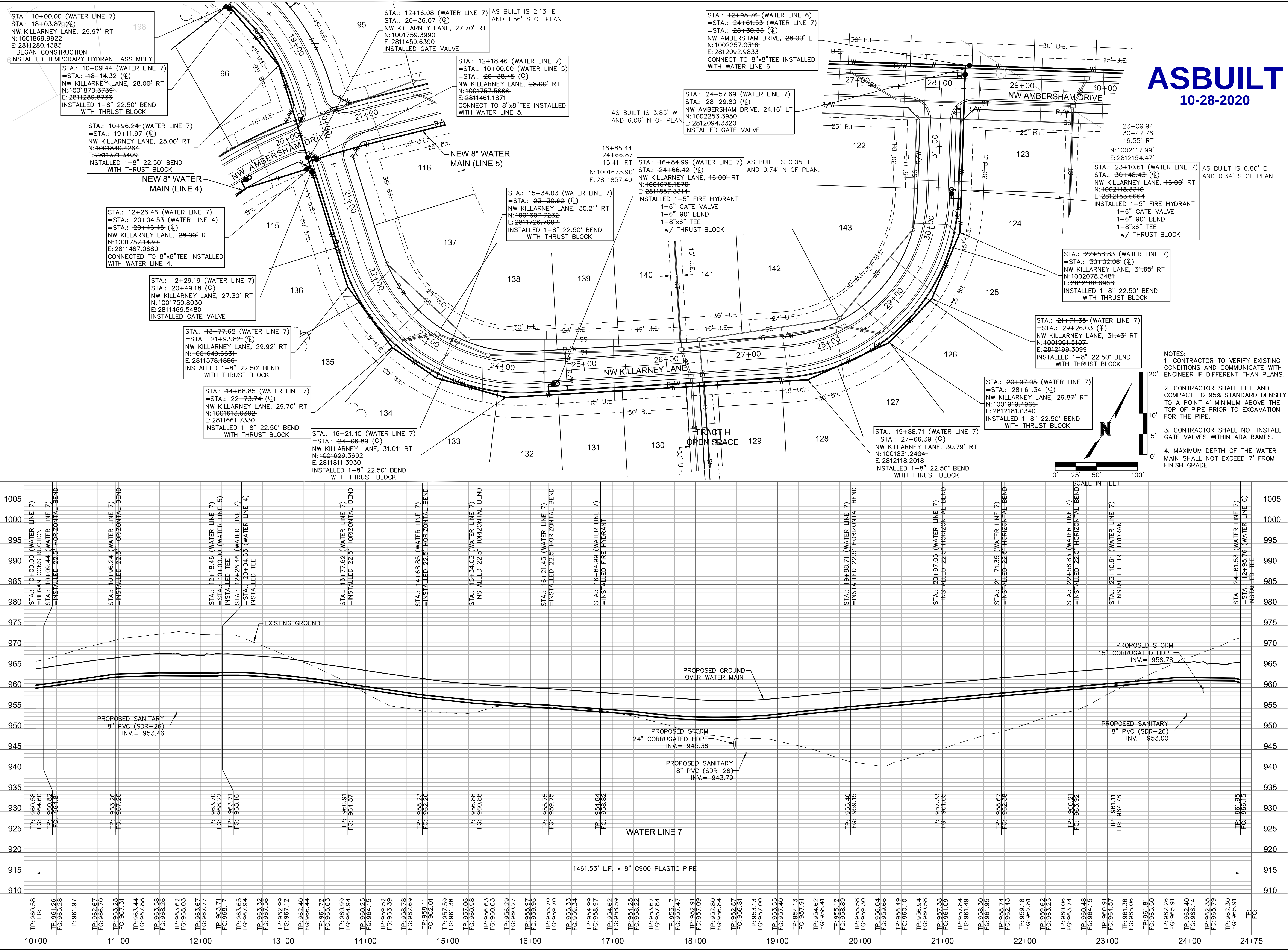
WOODSIDE RIDGE
FIRST PLAT

LEE'S SUMMIT, MO

2019

SHEET
C309

drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

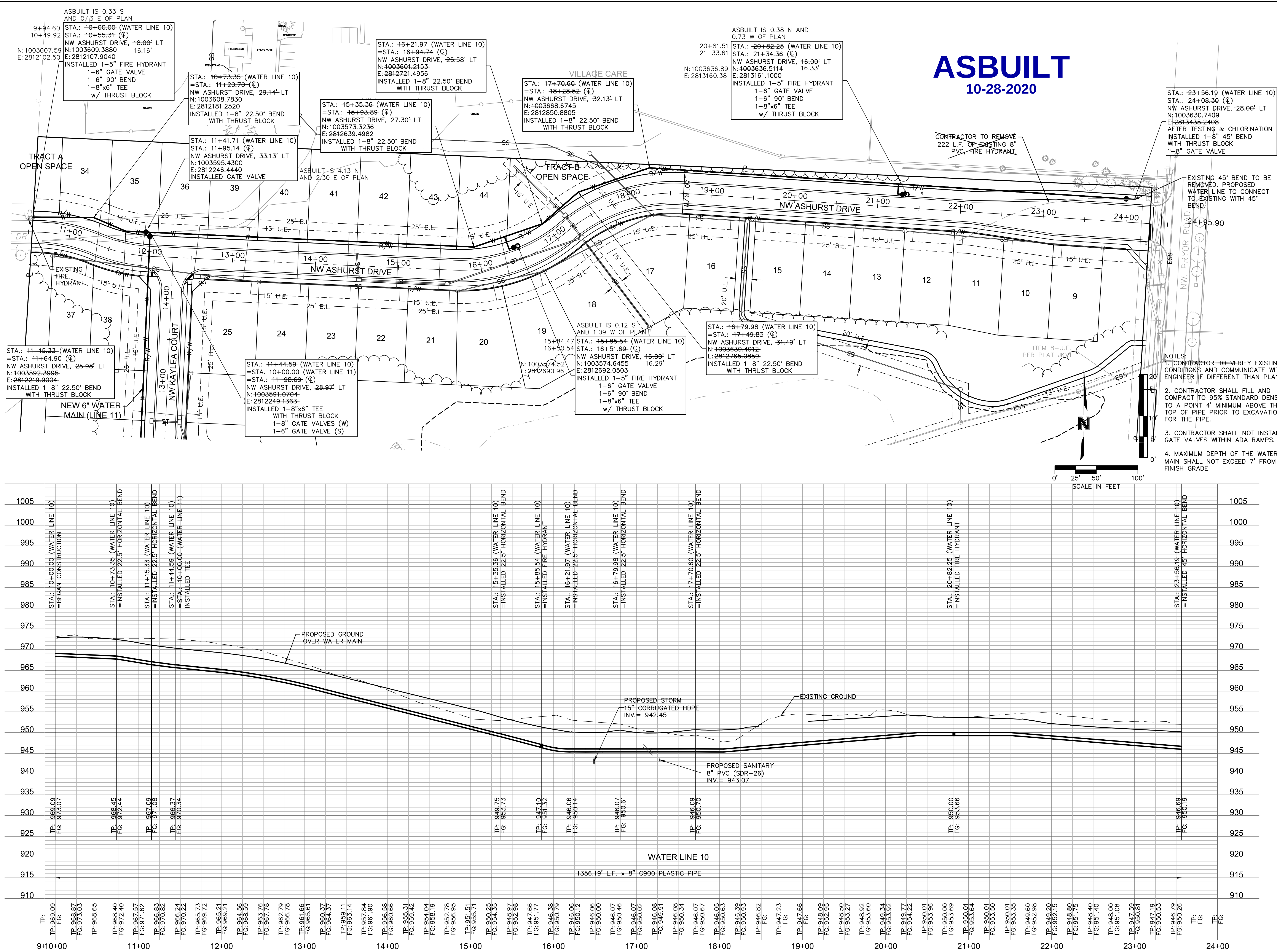


ASBUILT
10-28-2020

BY		DATE		NO. REV.		REVISIONS DESCRIPTION		REVISIONS	
		10/27/2020				ASBUILT SUBMITTAL		2019	
WATER MAIN PLAN & PROFILE WATER MAIN EXTENSION						WOODSIDE RIDGE FIRST PLAT LEE'S SUMMIT, MO			
drawn by: D.A.H.Q. checked by: J.E.S. designed by: S.M.S. QA/QC by: M.G.D. project no.: A18-1140 date: 2019.03.12						SHEET C311			

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JULIE ELAINE SELLERS
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STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
11/1/20

NO.	REV.	DATE	DESCRIPTION
1		8/7/2019	REVISED PER ASBUILT
		10/27/2020	ASBUILT SUBMITTAL

WATER MAIN PLAN & PROFILE
WATER MAIN EXTENSION

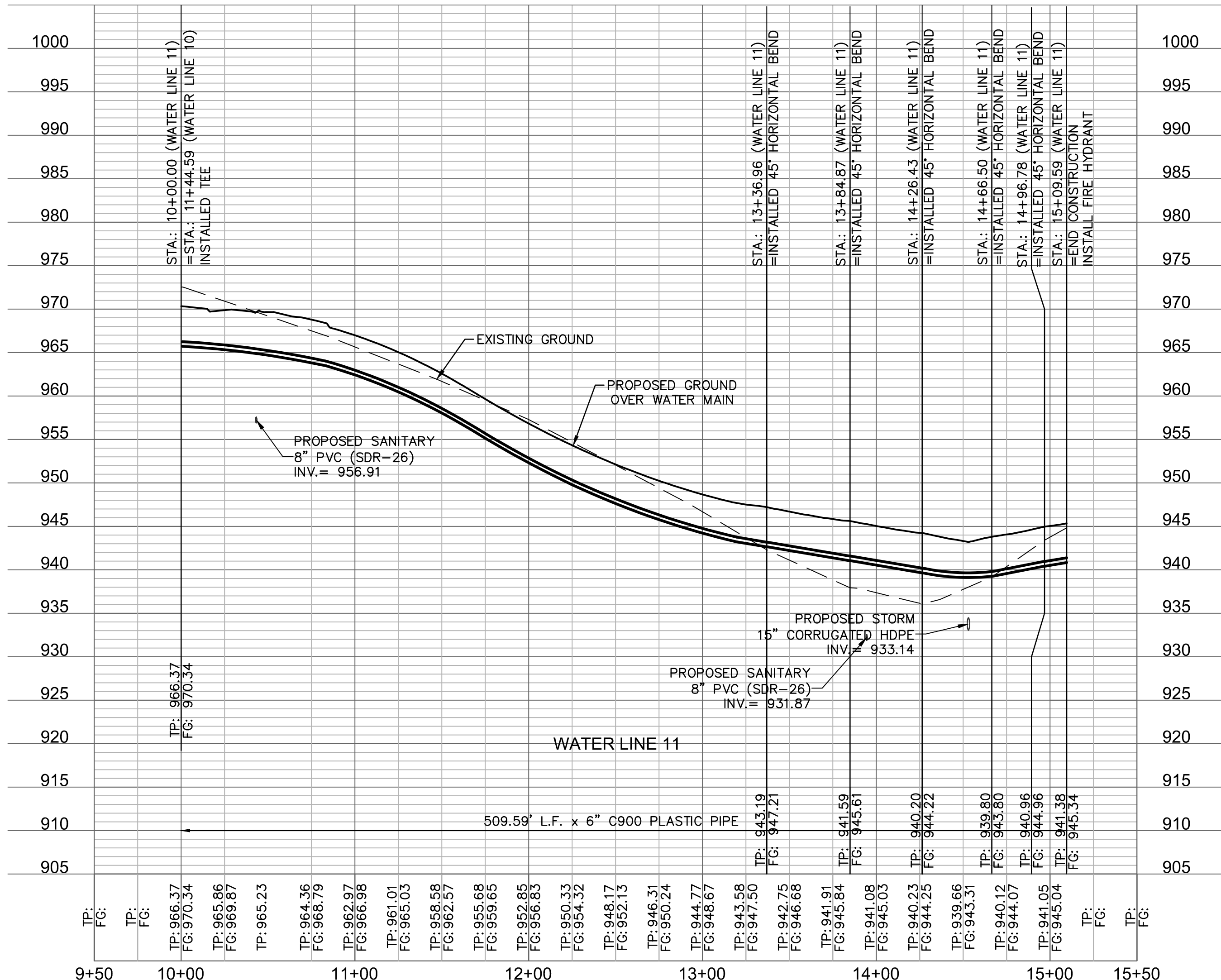
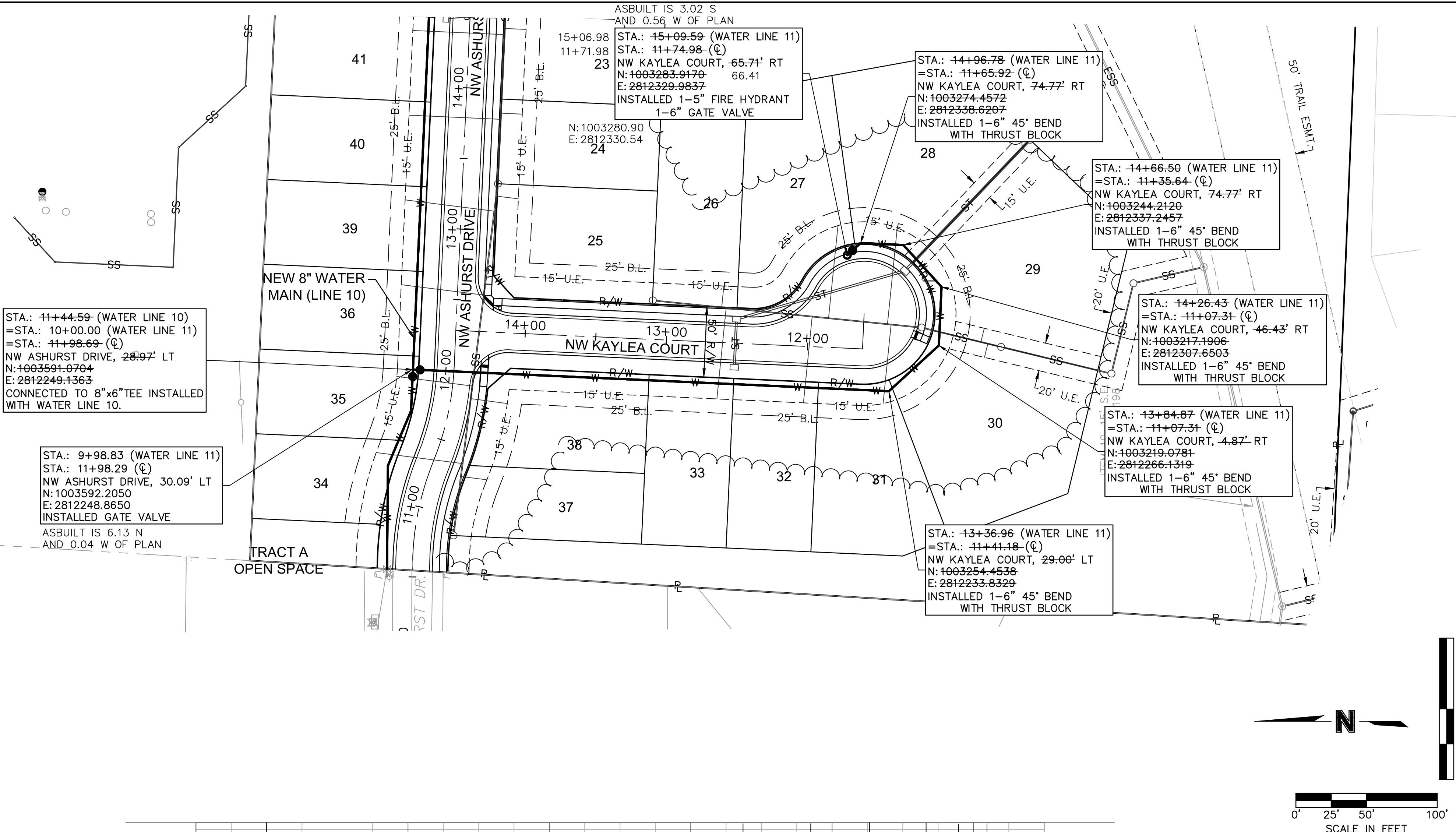
WOODSIDE RIDGE
FIRST PLAT

LEE'S SUMMIT, MO

drawn by: D.A.H.O.
checked by: J.E.S.
designed by: S.M.S.
QA/QC by: M.G.D.
project no.: A18-1140
date: 2019.03.12

2019

SHEET
C314



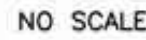
ASBUILT
10-28-2020

NOTES:

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2. CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 4' MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.
3. CONTRACTOR SHALL NOT INSTALL GATE VALVES WITHIN ADA RAMPS.
4. MAXIMUM DEPTH OF THE WATER MAIN SHALL NOT EXCEED 7' FROM FINISH GRADE.

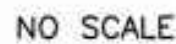
Working Pressure	150	psi
Surge Allowance	100	psi
Design Pressure	250	psi
Soil Bearing Capacity	1500	psf
Safety Factor	1.0	
Min. Bearing Area	4.0	sf
Max. Bearing Area	50.0	sf

ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.



Working Pressure	150	psi
Surge Allowance	100	psi
Design Pressure	250	psi
Conc. Unit Weight	140	pcf
Safety Factor	1.0	
Min. Block Size	4.0	cf
Max. Block Size	216.0	cf

ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.



N.T.S.

N.T.S.



1. A MINIMUM OF 42 INCHES OF COVER SHALL BE OVER THE TOP OF THE PIPE. THIS MINIMUM OF COVER SHALL BE FROM THE TOP OF PIPE TO THE FINISHED GRADE. A MAXIMUM COVER OF 7' SHALL BE ALLOWED.
2. BEDDING AGGREGATE SHALL BE PLACES FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 6 INCHES ABOVE THE TOP OF THE PIPE.
3. TRENCH BACKFILL IN PAVED AREAS WITHIN STREET OR ALLEY RIGHT OF WAY:
 - a. NARROW TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES 24 INCHES OR LESS IN WIDTH AND SHALL BE TYPE A FLOWABLE FILL.
 - b. STANDARD TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES BETWEEN 24 TO 48 INCHES WIDE SHALL BE EITHER TYPE A FLOWABLE FILL OR DENSE, WELL GRADED AGGREGATE BASE MATERIAL. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS FOR KDOT AB-3; MODOT TYPES 1 OR 5; OR APWA 2202.2.
 - c. WIDE TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES BETWEEN GREATER THAN 48 INCHES WIDE SHALL BE SUITABLE MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C.
 - d. SUITABLE BACKFILL MATERIAL OUTSIDE OF PAVED AREAS WITHIN RIGHT OF WAY, AND ALL AREAS OUTSIDE RIGHT OF WAY, MAY BE SUITABLE MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C. SUITABLE BACKFILL MATERIAL MAY ALSO BE OTHER TRENCH BACKFILL MATERIAL (FLOWABLE FILL OR AGGREGATE BASE) DEPENDING ON SITE CONDITIONS, TRENCH WIDTHS OR AT THE DIRECTION OF THE CITY'S ON SITE INSPECTOR.

10-28-2020



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

VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-9
Rev: 1/14
Rev:

LEE'S SUMMIT, MO

drawn by: D.A.H.O
checked by: J.E.S
designed by: S.M.S
QA/QC by: M.G.D
project no.: A18-1140
date: 2019.03.12

SHEET
316

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
11/1/20
PROFESSIONAL ENGINEER

BY _____

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NO.
REV.

REVISIONS

2019

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