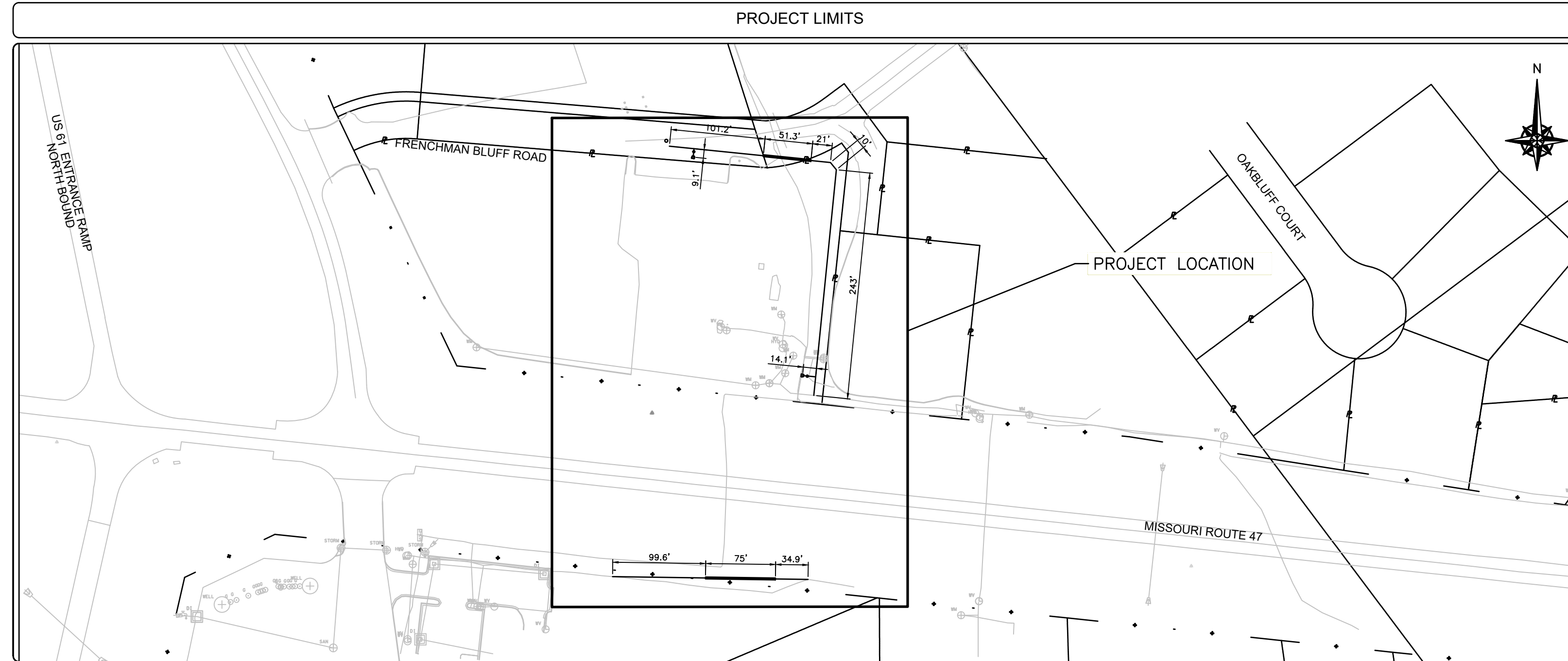




US-61 AND ROUTE 47 WATER MAIN RELOCATION CITY OF TROY, MISSOURI

EXHIBIT A
 UT01 - MRUA 259
 City of Troy
 Executed November 27, 2023
 Route 47 - Lincoln County -
 Job No. J2P3043
 Sheet 1 of 8

DESCRIPTION	SYMBOLOLOGY
RIGHT-OF-WAY NEW	---
RIGHT-OF-WAY EXISTING	---
PROPERTY LINE	---
UNDERGROUND UTILITY (TYPE SPECIFIED)	---
T-TELECATV G-GAS W-WATER E-ELECTRIC	---
CONSTRUCTION LIMITS	---
TREE OR SHRUB (DESIGNATE DIA. & TYPE)	○ ○ ●
TREE/VEGETATION LINE	---
FENCE (DESIGNATE TYPE)	---
GUARDRAIL	---
SIGN	■
PERMANENT DRAINAGE EASEMENT	P.D.E.
PERMANENT SIDEWALK EASEMENT	P.S.E.
PERMANENT SIGHT DISTANCE EASEMENT	P.S.D.E.
TEMPORARY CONSTRUCTION EASEMENT	T.C.E.
PERMANENT TRAFFIC SIGNAL EASEMENT	P.T.S.E.
PERMANENT FOOTING EASEMENT	P.F.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY EASEMENT	P.R.I.M.U.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY SIDEWALK AND SEWER EASEMENT	P.R.I.M.U.S.S.E.
PERMANENT RETAINING WALL EASEMENT	P.R.W.E.
TO BE REMOVED	(T.B.R.)
TO BE ABANDONED	(T.B.A.)
USE IN PLACE	(U.I.P.)
TO BE REMOVED AND REPLACED	(T.B.R.&R.)
TO BE REMOVED AND REPLACED BY OTHERS	(T.B.R.&R.B.O.)
ADJUST TO GRADE	(A.T.G.)
ADJUST TO GRADE BY OTHERS	(A.T.G.B.O.)
	THRUST BLOCK
	END CAP
	WATER METER



SHEET NUMBER	DESCRIPTION
1	TITLE AND INDEX SHEET
2	EXISTING OVERALL SITE
3	PROPOSED OVERALL SITE
4-5	PLAN
6	PROFILE
7-8	DETAILS

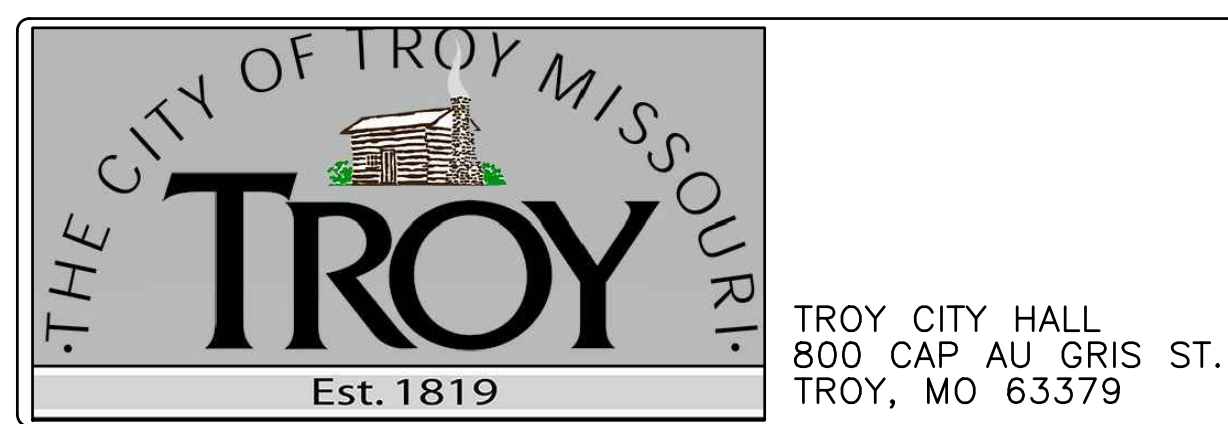
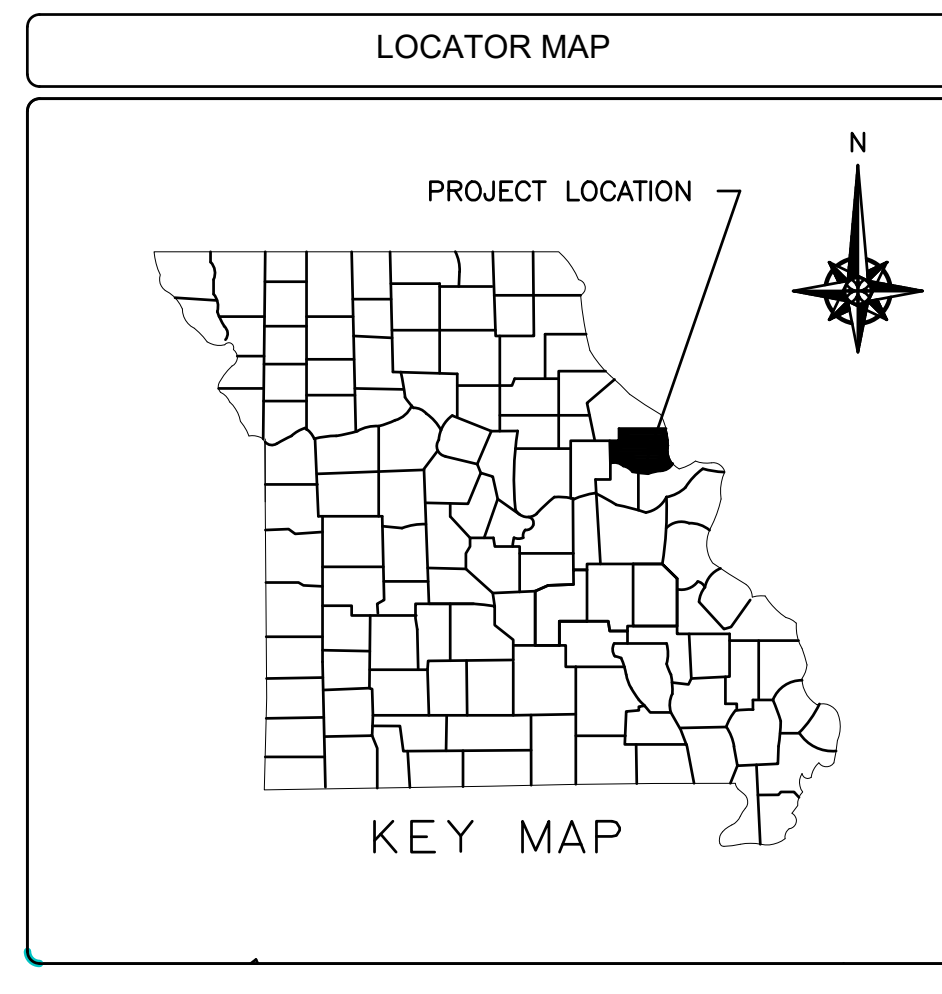
PROJECT UTILITY CONTACTS	
City of Troy 336 Excalibur Blvd. Troy, MO 63379 Jeff Burkemper Public Works Superintendent Phone: (636) 528-4646	Charter Communications - Spectrum 101 Northwest Plaza St. Ann, MO 63074 James Hake Phone: (314) 873-9646
Ameren Missouri Electric 200 N Callahan Rd Wentzville, MO 63385 Matt Holtmeyer Phone: (573) 418-3465	Cuivre River Electric Cooperative Stan Winkle 1112 E. Cherry St. Troy, MO 63379 Phone: (636) 695-4841
Ameren Missouri Gas 167 Highway H Troy, MO 63379 Vince Kaimann Phone: (314) 206-1048	Gateway Fiber LLC Ryan Colley PO Box 210 Jonesburg, MO 63351 Phone: (314) 323-9494
Brightspeed (formerly Lumen - Local, CenturyLink) 1151 CenturyLink Drive Wentzville, MO 63385 Tim Howe Phone: (765) 273-0705	Consultant to Gateway Fiber LLC: UtiliSource Tom Turley 313 North Gladstone Ave Jonesburg, MO 63351 Phone: (314) 605-5447
Central Electric Power Cooperative Randall Kempker 2106 Jefferson St. Jefferson City, MO 65109 Phone: (573) 761-2864	MNA-Bluebird 10024 Office Center Ave., Suite 201 St. Louis, MO 63128 Justin Rector Phone: (636) 795-5787

DESIGN CRITERIA & STANDARDS

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE WATER AND WASTEWATER CONSTRUCTION SPECIFICATION OF THE CITY OF TROY AND SPECIFICATIONS FOR THIS PROJECT.

LOCATOR MAP

KEY MAP



SCALES

PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ. & 5' VERT.
 UNLESS NOTED OTHERWISE

UTILITY NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; AND, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID THERETO.

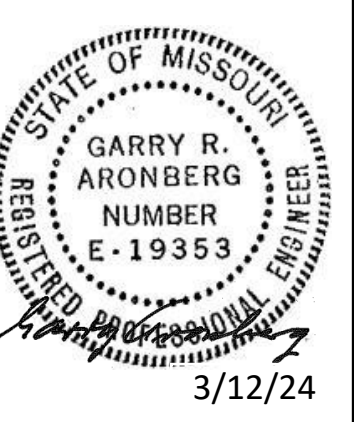
APPROVED: _____

DATE: _____

REV	DATE	BY	APP	DESCRIPTION

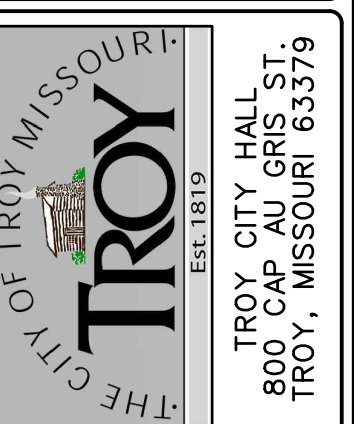
CONTRACTOR'S RESPONSIBILITY

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PREPARED BY: **HRGreen**

HR Green, Inc. Missouri Certificate of Authority for Engineering 2020060608



US-61 AND ROUTE 47 WATERLINE RELOCATION

TITLE AND INDEX SHEET

DESIGNED:	GRA
DRAWN:	ELC
CHECKED:	CM & GRA
SHEET SEQUENCE:	1 OF 8

March 12, 2024

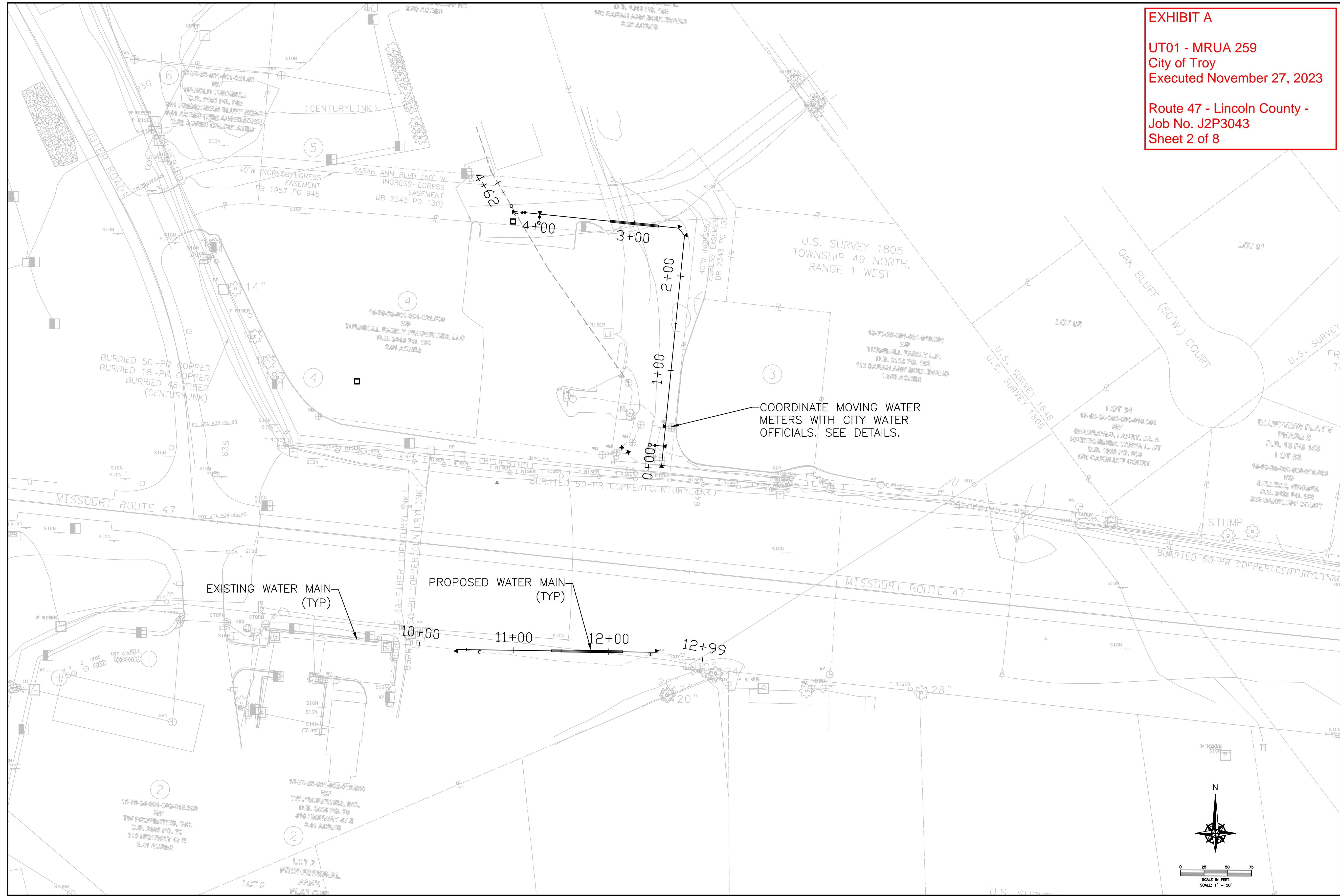
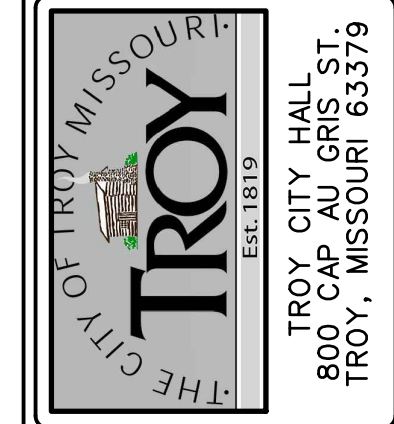
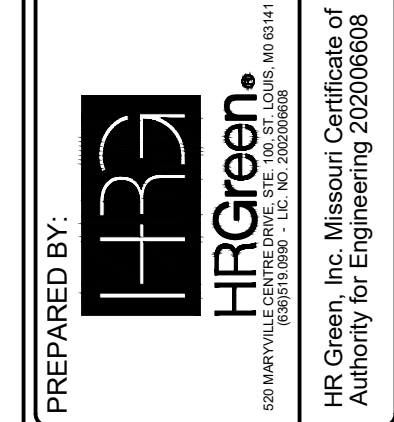
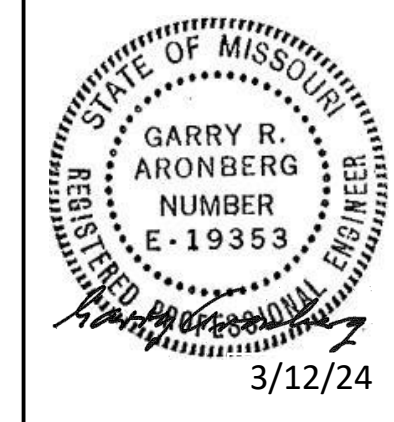


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 City of Troy
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 Route 47 - Lincoln County -
 Job No. J2P3043
 Sheet 2 of 8

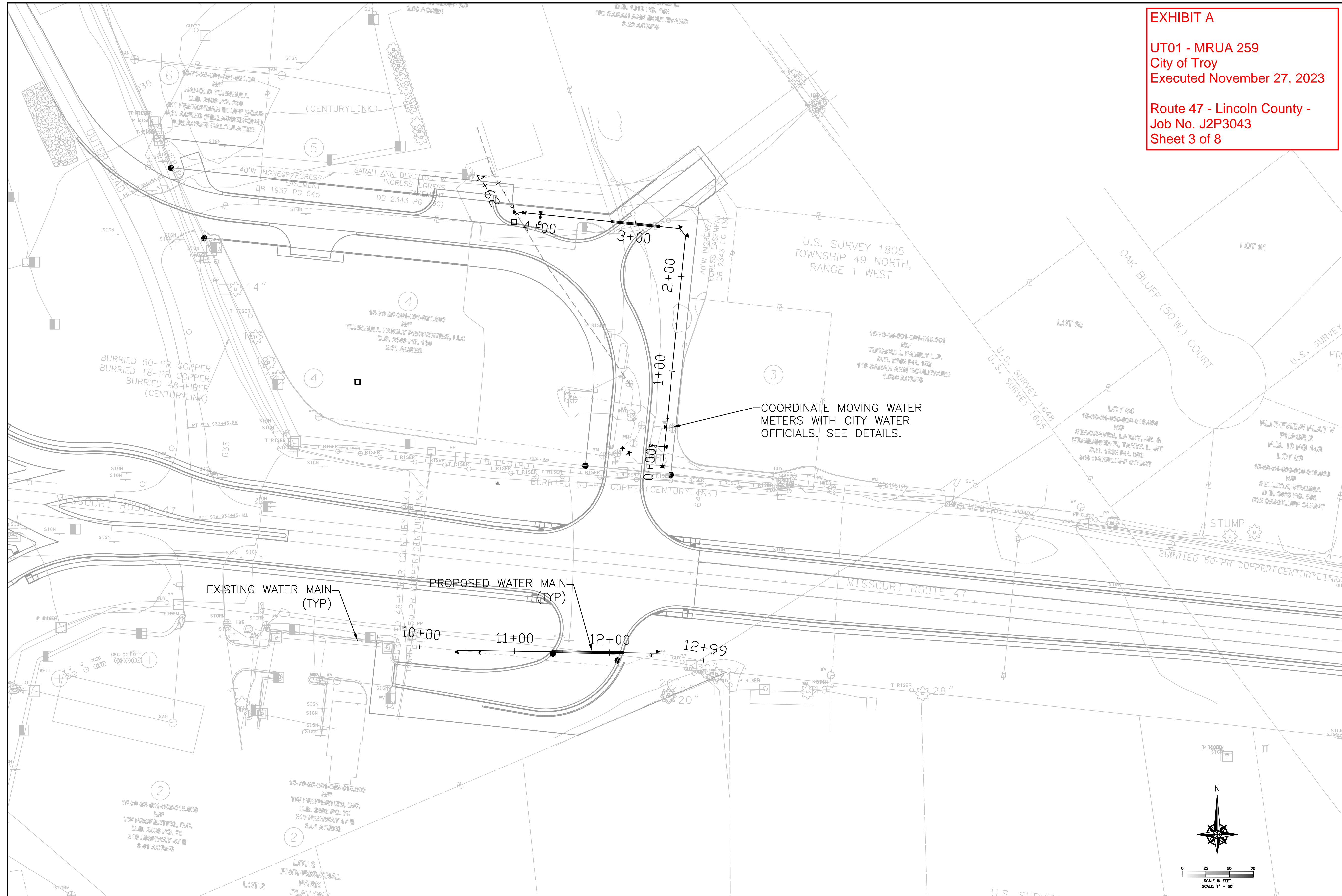
REV. DATE	BY	APP.	DESCRIPTION

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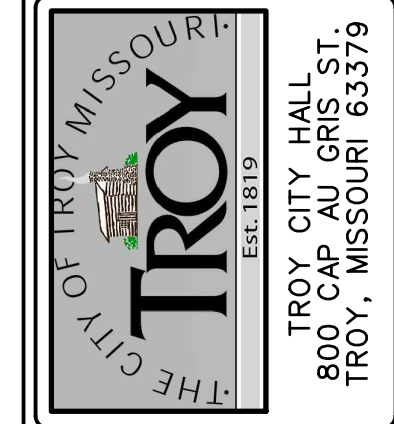
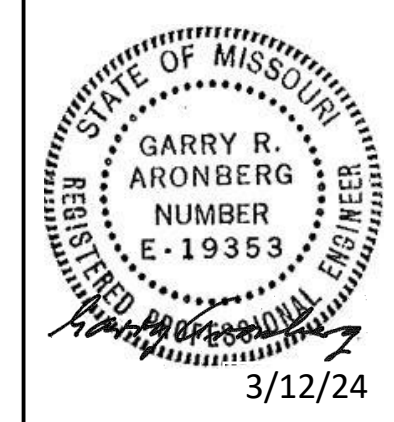
US-61 AND ROUTE 47 WATERLINE RELOCATION
WATER LINE RELOCATION WITH EXISTING ROAD REALIGNMENT

DESIGNED:	GRA
DRAWN:	ELC
CHECKED:	GRA
SHEET SEQUENCE:	2 OF 8
DATE:	March 12, 2024



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US-61 AND ROUTE 47 WATERLINE RELOCATION
WATER LINE RELOCATION WITH PROPOSED ROAD REALIGNMENT

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CHECKED:	GRA
SHEET SEQUENCE:	3 OF 8
March 12, 2024	

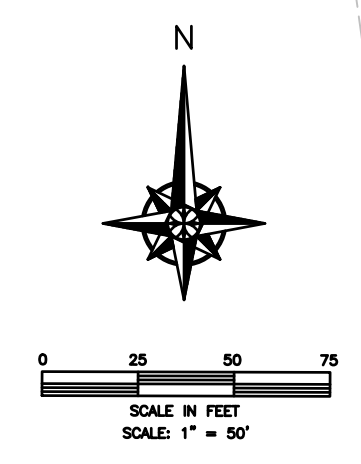
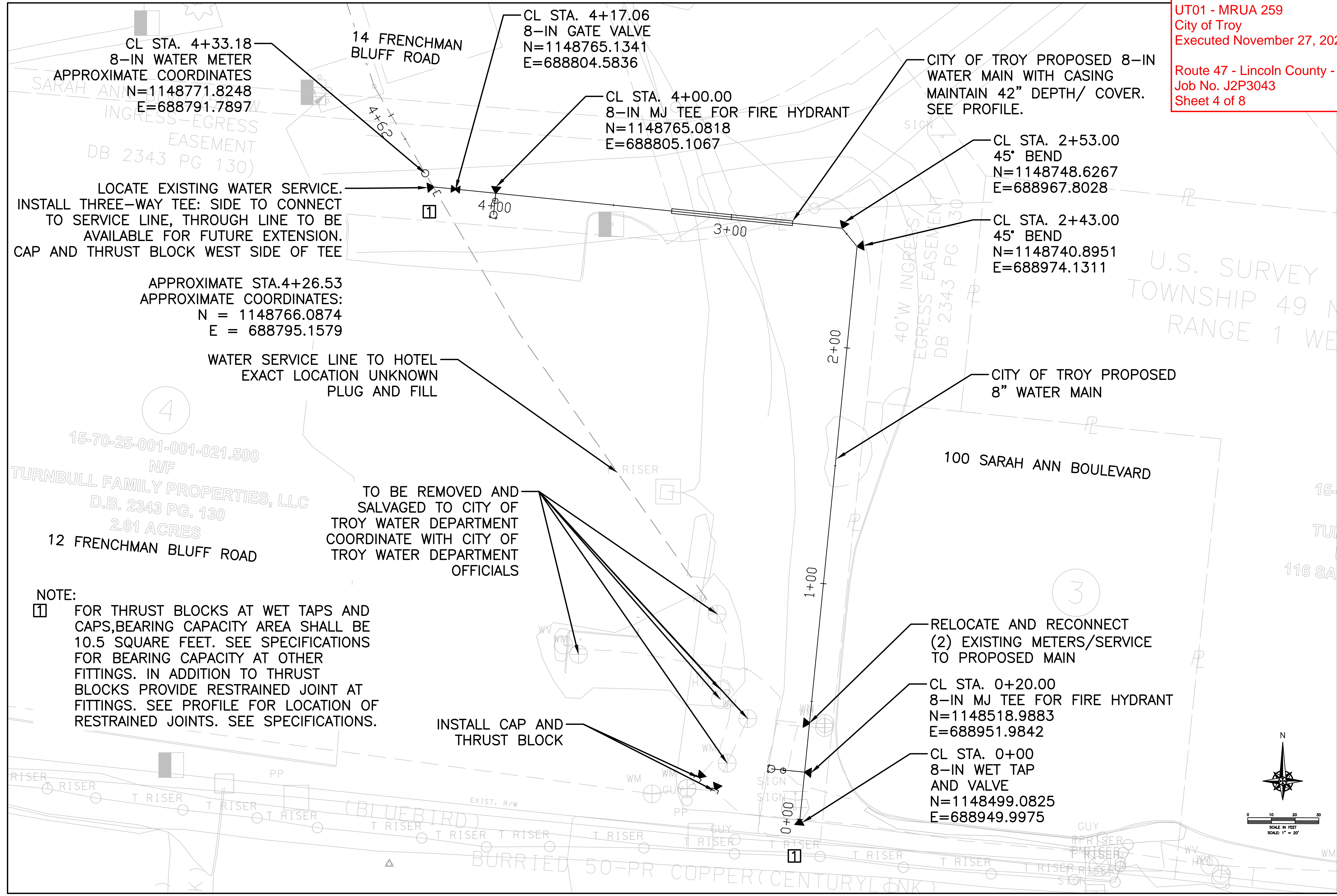


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LOCATE EXISTING WATER SERVICE.
 INSTALL THREE-WAY TEE: SIDE TO CONNECT
 TO SERVICE LINE, THROUGH LINE TO BE
 AVAILABLE FOR FUTURE EXTENSION.
 CAP AND THRUST BLOCK WEST SIDE OF TEE

APPROXIMATE STA. 4+26.53
 APPROXIMATE COORDINATES:
 N = 1148766.0874
 E = 688795.1579

WATER SERVICE LINE TO HOTEL
 EXACT LOCATION UNKNOWN
 PLUG AND FILL

TO BE REMOVED AND
 SALVAGED TO CITY OF
 TROY WATER DEPARTMENT
 COORDINATE WITH CITY OF
 TROY WATER DEPARTMENT
 OFFICIALS

INSTALL CAP AND
 THRUST BLOCK

CITY OF TROY PROPOSED 8-IN
 WATER MAIN WITH CASING
 MAINTAIN 42" DEPTH/ COVER.
 SEE PROFILE.

CL STA. 2+53.00
 45° BEND
 N=1148748.6267
 E=688967.8028

CL STA. 2+43.00
 45° BEND
 N=1148740.8951
 E=688974.1311

CITY OF TROY PROPOSED
 8" WATER MAIN

RELOCATE AND RECONNECT
 (2) EXISTING METERS/SERVICE
 TO PROPOSED MAIN

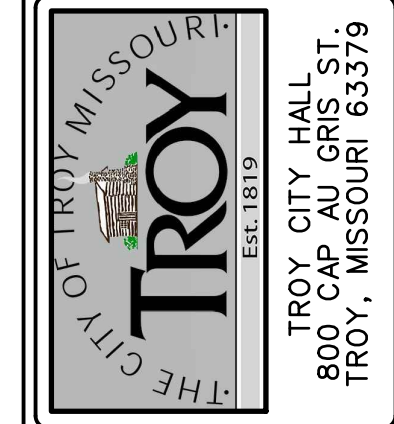
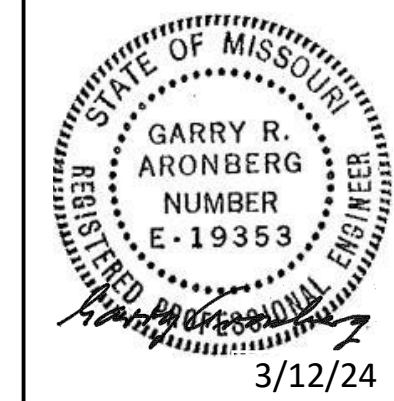
CL STA. 0+20.00
 8-IN MJ TEE FOR FIRE HYDRANT
 N=1148518.9883
 E=688951.9842

CL STA. 0+00
 8-IN WET TAP
 AND VALVE
 N=1148499.0825
 E=688949.9975

NOTE:
 1 FOR THRUST BLOCKS AT WET TAPS AND
 CAPS, BEARING CAPACITY AREA SHALL BE
 10.5 SQUARE FEET. SEE SPECIFICATIONS
 FOR BEARING CAPACITY AT OTHER
 FITTINGS. IN ADDITION TO THRUST
 BLOCKS PROVIDE RESTRAINED JOINT AT
 FITTINGS. SEE PROFILE FOR LOCATION OF
 RESTRAINED JOINTS. SEE SPECIFICATIONS.

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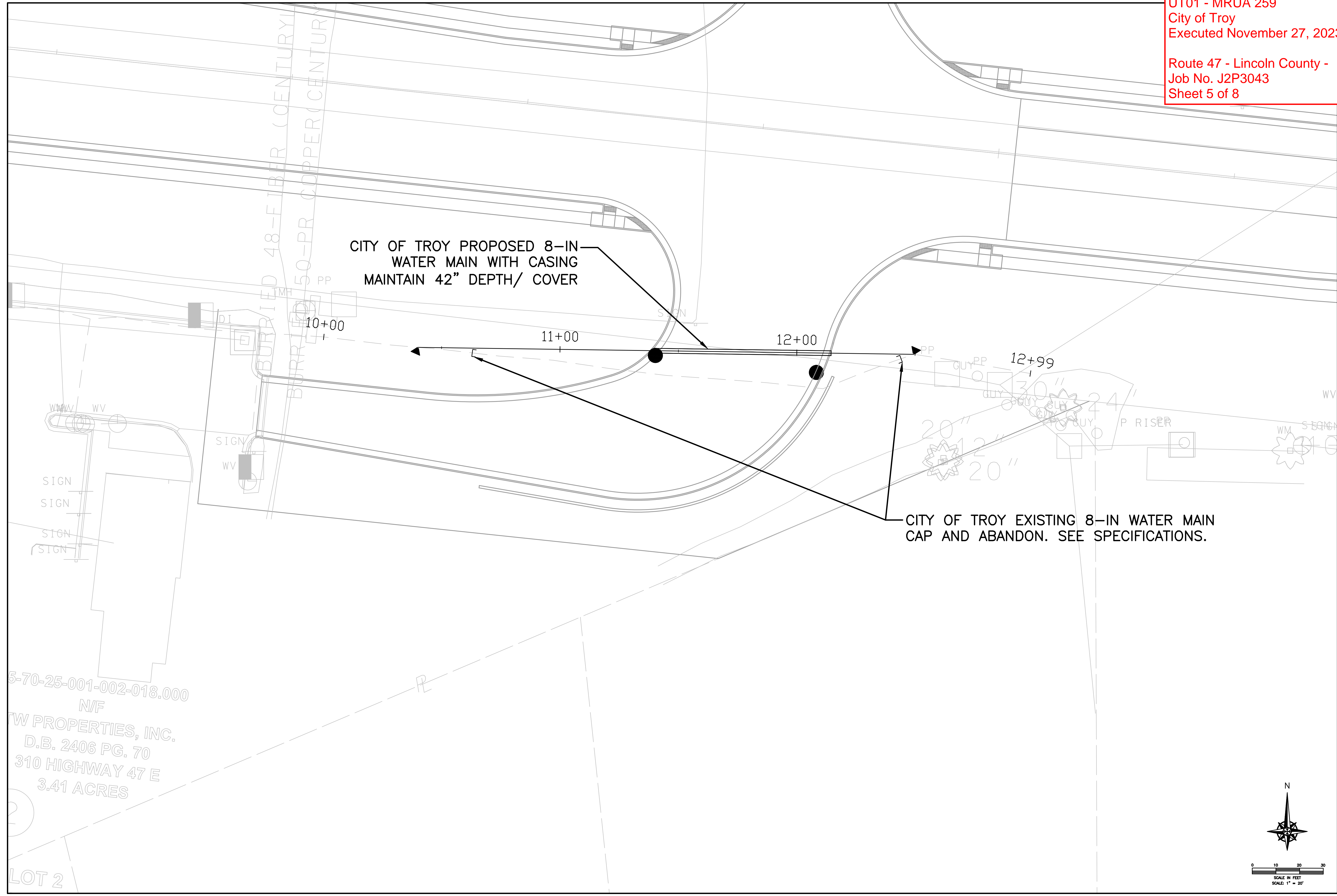
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 documents or instruments
 relating to or intended to be
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 engineering project or survey



US-61 AND ROUTE 47
 WATERLINE
 RELOCATION
 WATERLINE PLAN

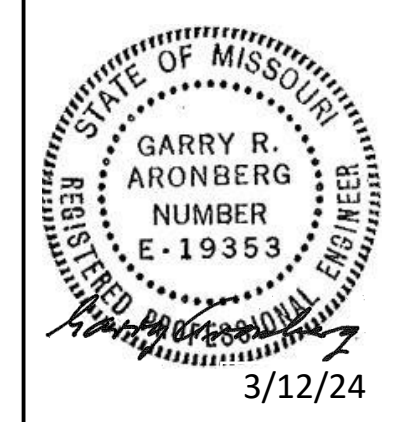
DESIGNED: GRA
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 CHECKED: GRA
 SHEET SEQUENCE:
 4 OF 8
 March 12, 2024

EXHIBIT A
 UT01 - MRUA 259
 City of Troy
 Executed November 27, 2023
 Route 47 - Lincoln County -
 Job No. J2P3043
 Sheet 5 of 8



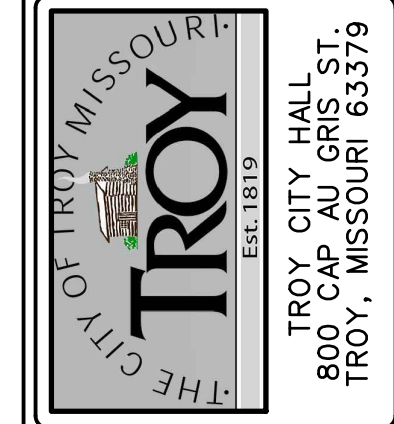
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PREPARED BY:

 HR Green, Inc. Missouri Certificate of Authority for Engineering 220206608

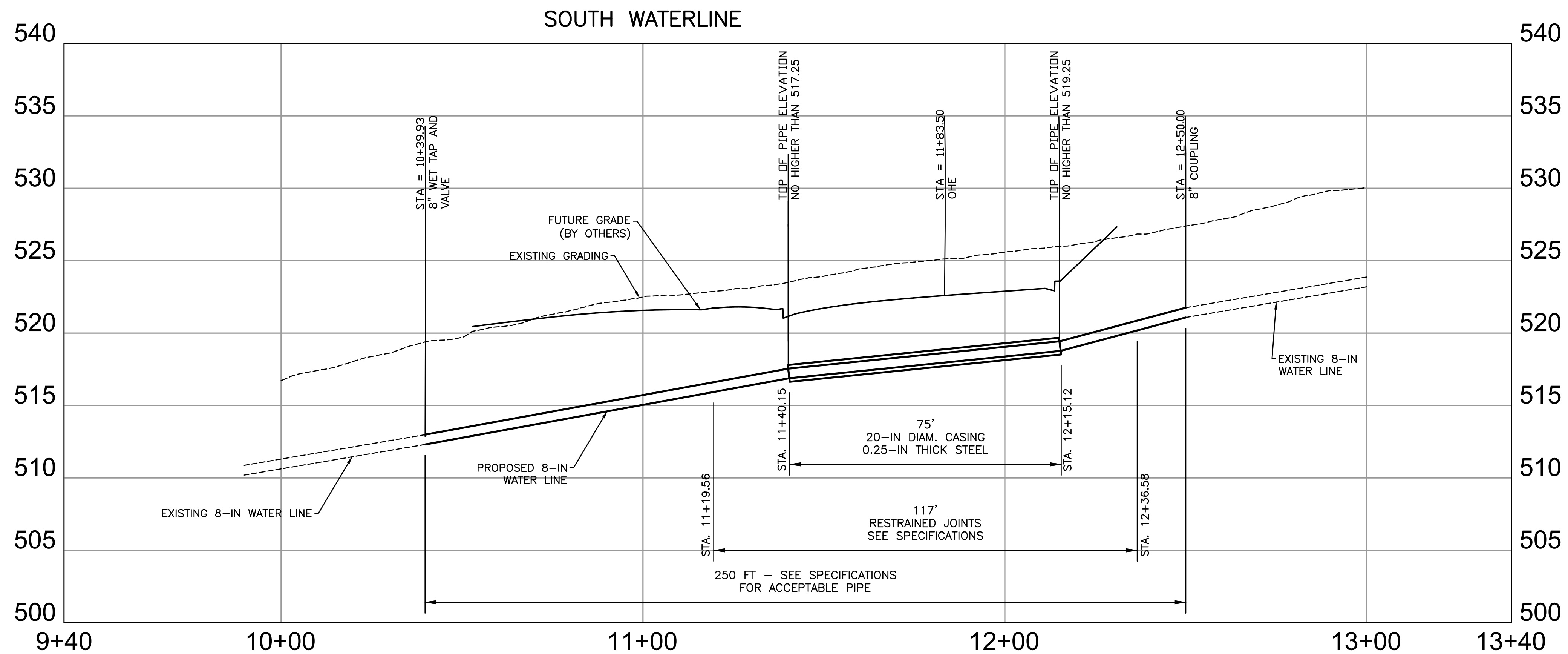
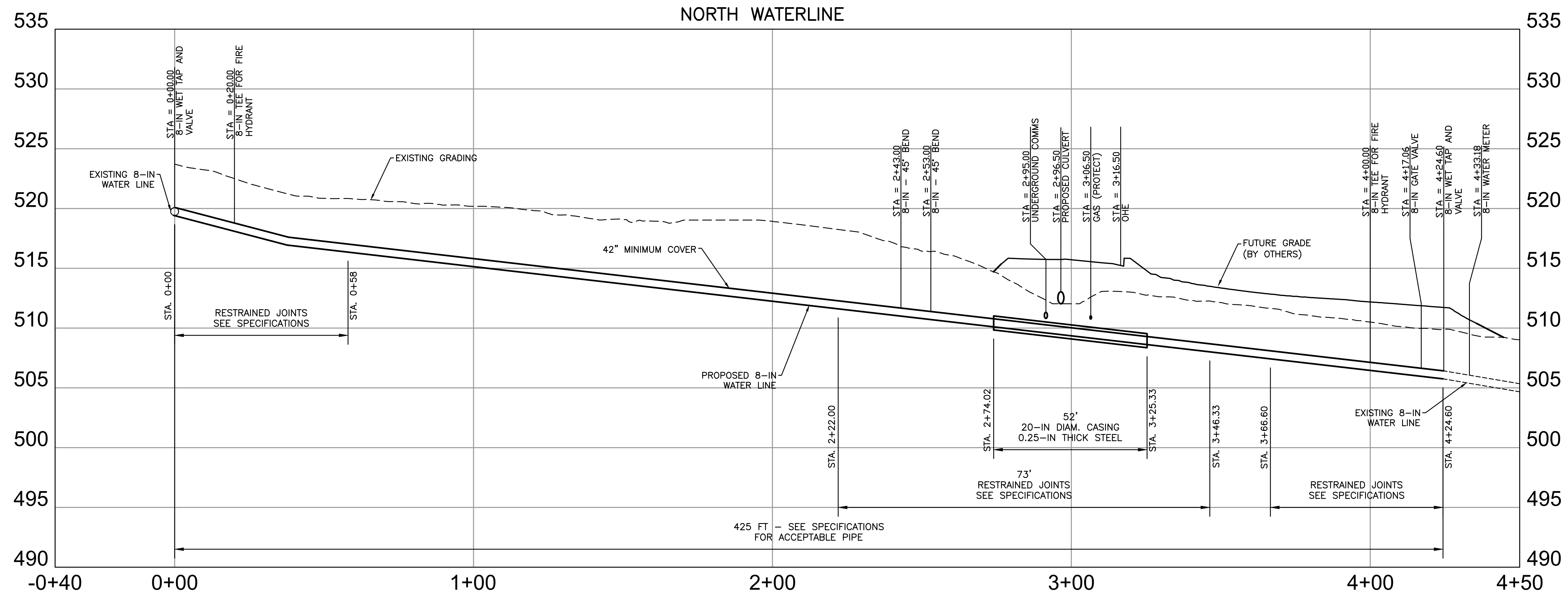


US-61 AND ROUTE 47 WATERLINE RELOCATION WATERLINE PLAN

DESIGNED: GRA
 DRAWN: ELC
 CHECKED: GRA
 SHEET SEQUENCE: 5 OF 8
 March 12, 2024

Path: J:\2022\2202610.01\CAD\Waterline\Plan Sheets\
 Plotted on: 3/05/24 @ 10:12:01AM by edanto

EXHIBIT A
 UT01 - MRUA 259
 City of Troy
 Executed November 27, 2023
 Route 47 - Lincoln County -
 Job No. J2P3043
 Sheet 6 of 8



REV	DATE	BY	APP	DESCRIPTION

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PREPARED BY:
HRGreen
 HR Green, Inc. Missouri, Certificate of Authority for Engineering 202006908
 250 MARKET STREET, SUITE 200, TROY, MISSOURI 64686

THE CITY OF TROY MISSOURI
TROY
 EST. 1819
 TROY CITY HALL
 800 W. CAP AU GRIS ST.
 TROY, MISSOURI 64686

US-61 AND ROUTE 47
 WATERLINE
 RELOCATION
 WATERLINE PROFILES

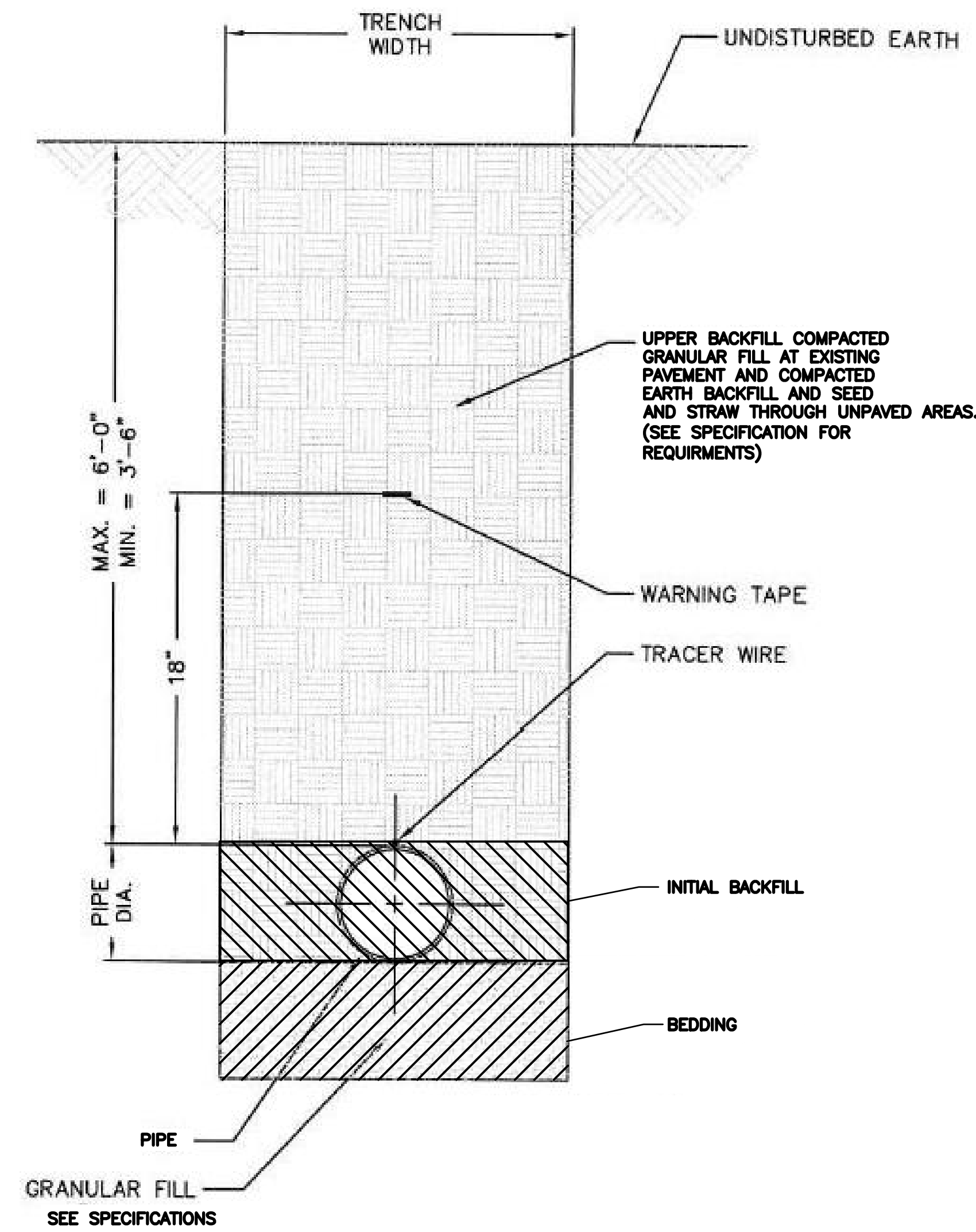
DESIGNED: GRA

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SHEET SEQUENCE:
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March 12, 2024



NOTES

- 1) POLYWRAP REQUIRED FOR DUCTILE IRON PIPE
- 2) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
- 3) FOR ACCEPTABLE PIPE SEE SPECIFICATIONS

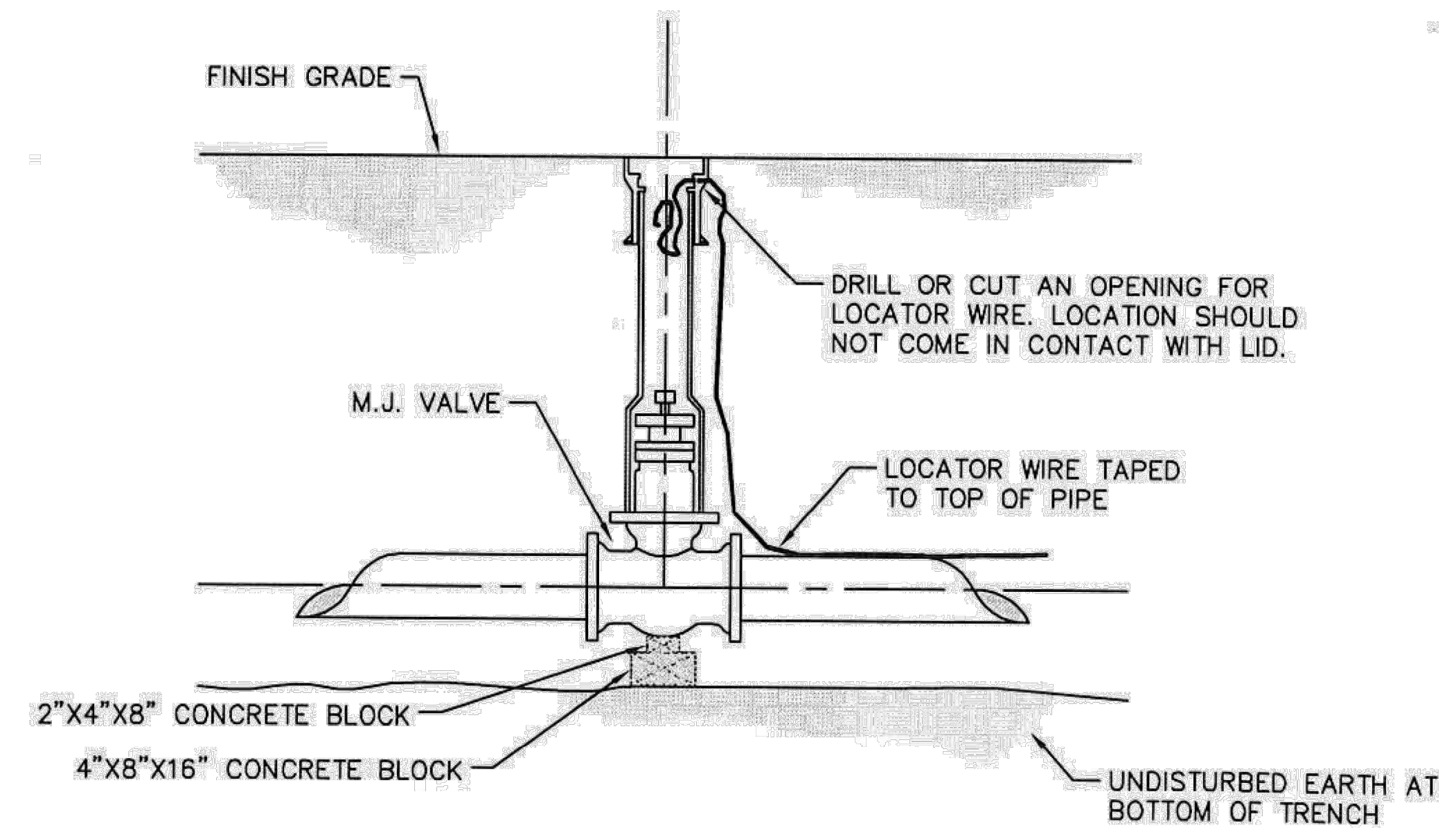
TYPICAL TRENCH SECTION

NOT TO SCALE

EXHIBIT A

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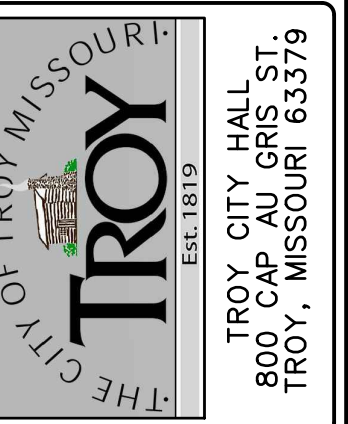
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 Sheet 7 of 8



GATE VALVE DETAIL

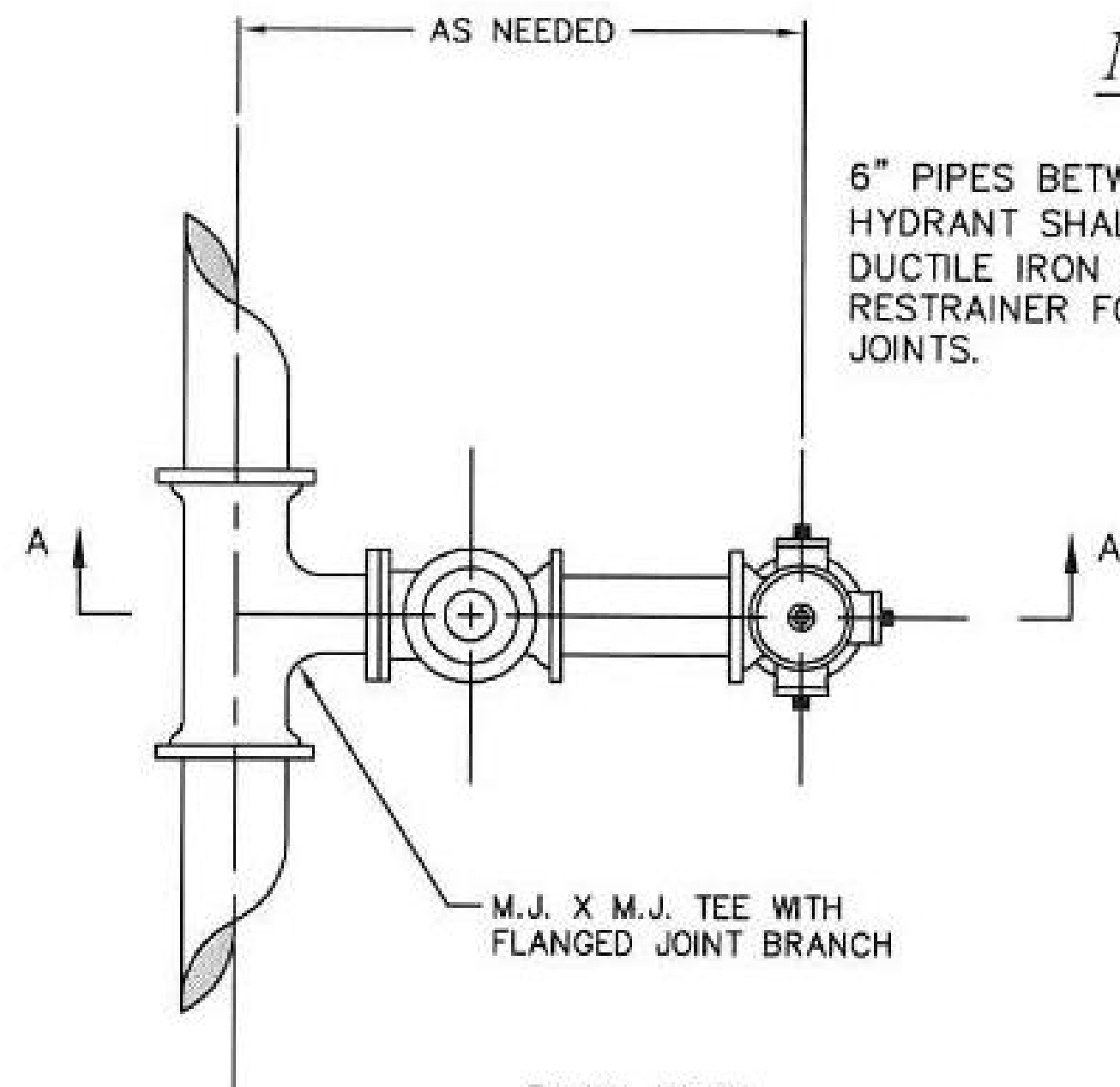
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US-61 AND ROUTE 47
 WATERLINE
 RELOCATION
 WATERLINE DETAILS

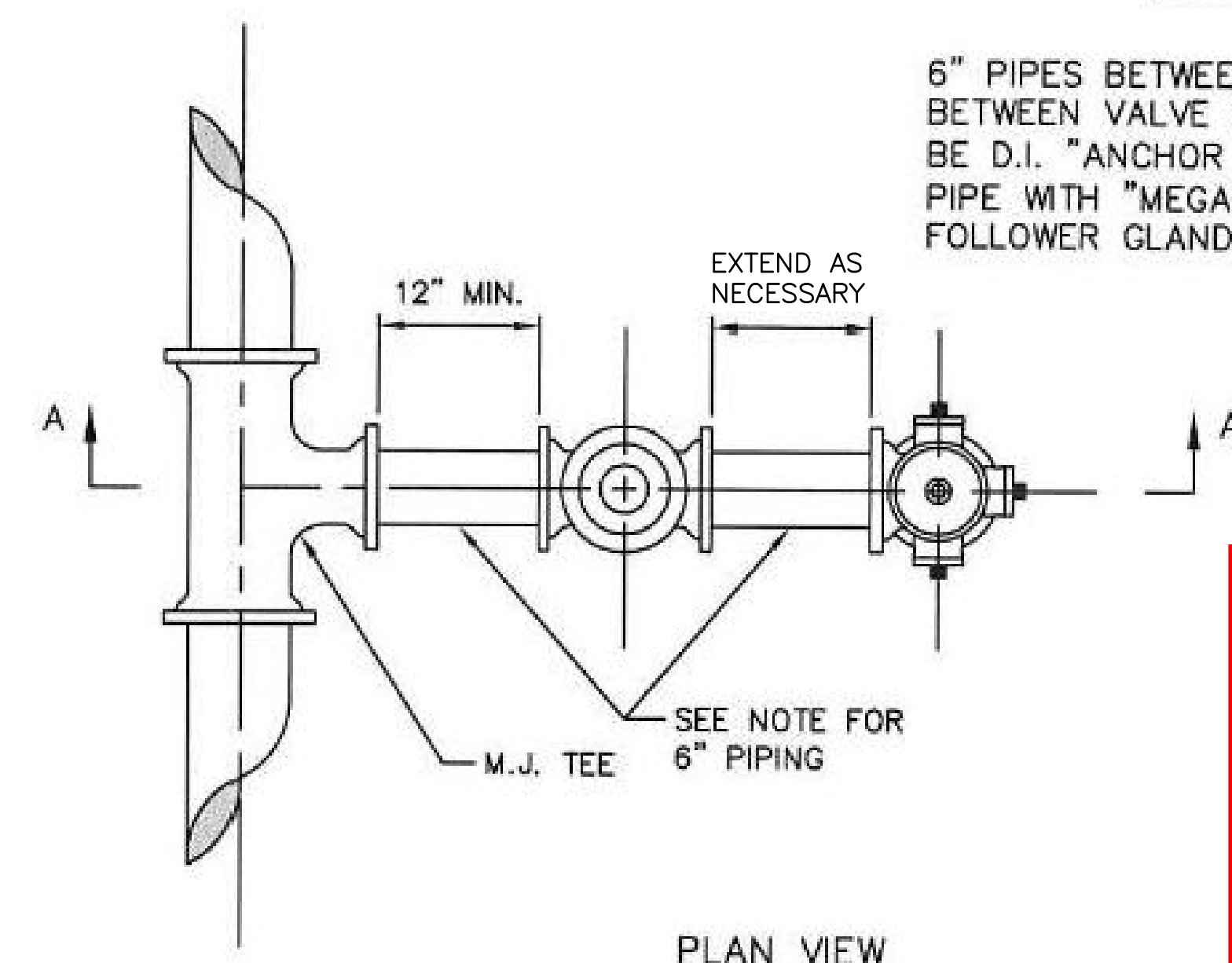
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CHECKED:	GRA
SHEET SEQUENCE:	7 OF 8
DATE:	March 12, 2024



PLAN VIEW
NOT TO SCALE

NOTES

6" PIPES BETWEEN VALVE AND FIRE HYDRANT SHALL BE D.I. "ANCHOR LOKS" OR DUCTILE IRON PIPE WITH "MEGALUG" RESTRAINER FOLLOWER GLANDS ON ALL M.J. JOINTS.

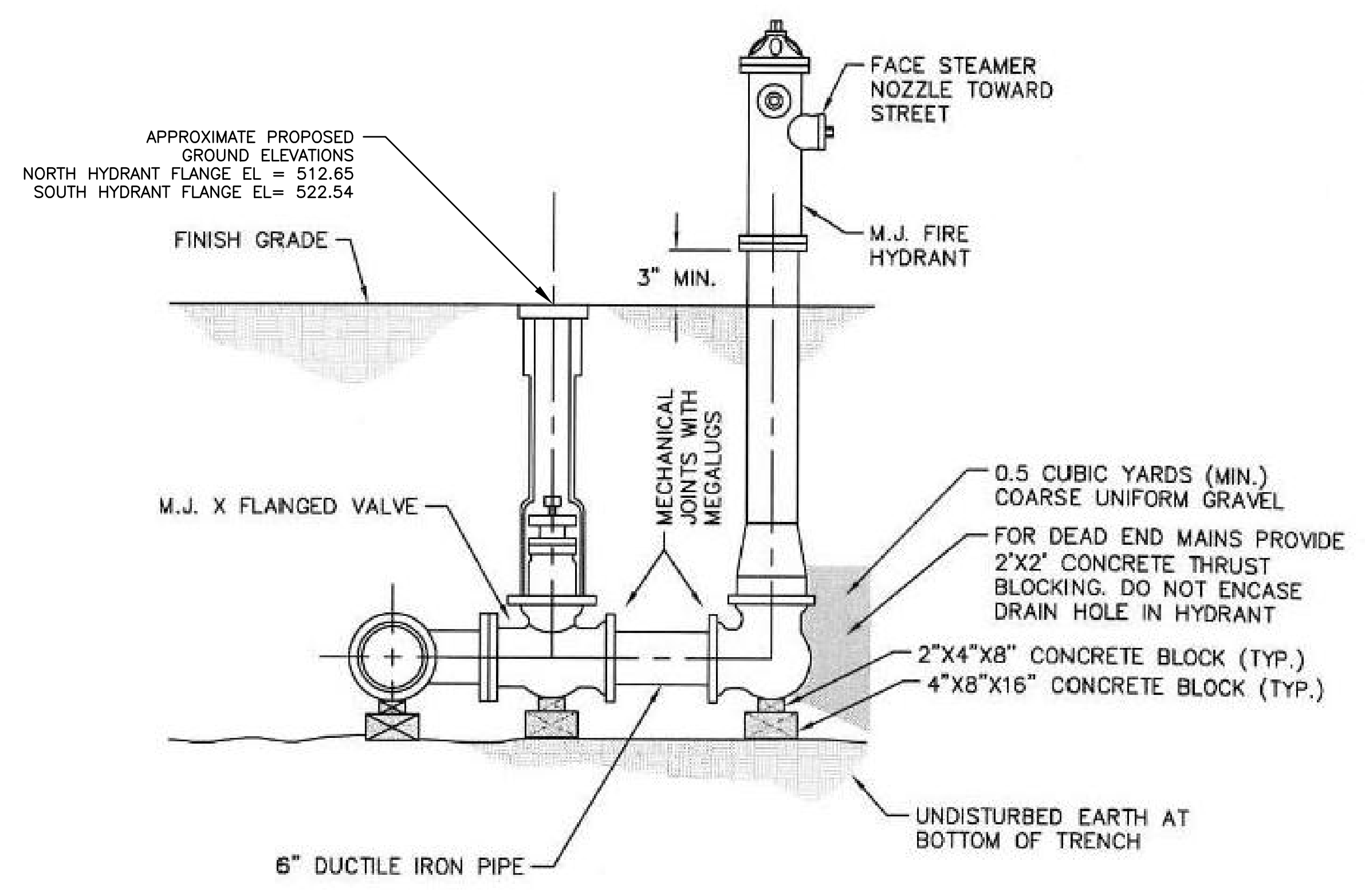


PLAN VIEW
NOT TO SCALE

NOTES

6" PIPES BETWEEN TEE AND VALVE AND BETWEEN VALVE AND FIRE HYDRANT SHALL BE D.I. "ANCHOR LOKS" OR DUCTILE IRON PIPE WITH "MEGALUG" RESTRAINER FOLLOWER GLANDS ON ALL M.J. JOINTS.

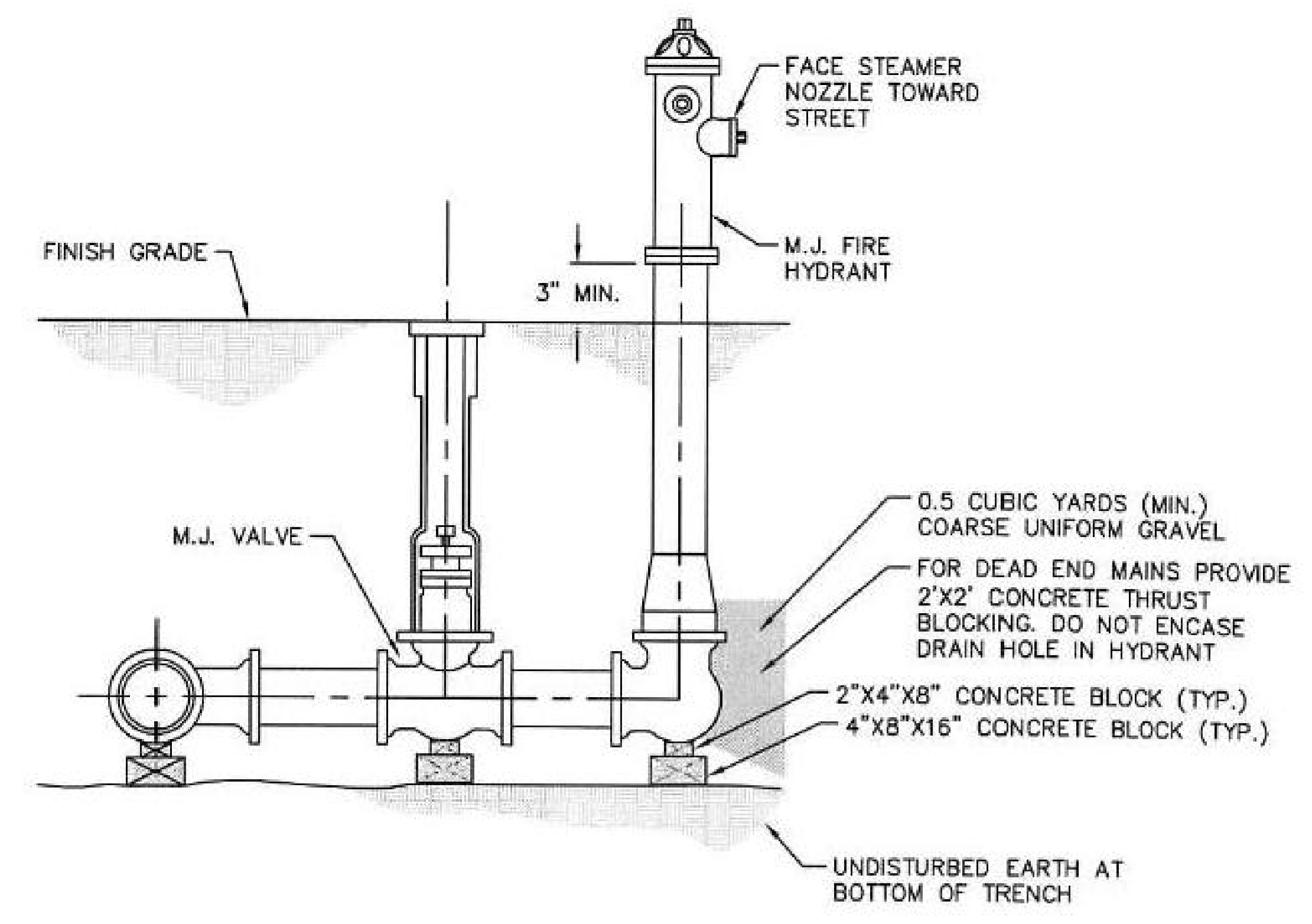
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 Job No. J2P3043
 Sheet 8 of 8



SECTION "A-A"
NOT TO SCALE

SEE SPECIFICATIONS FOR ACCEPTABLE FIRE HYDRANT AND VALVE.

**FIRE HYDRANT DETAIL
DETAIL "B"**

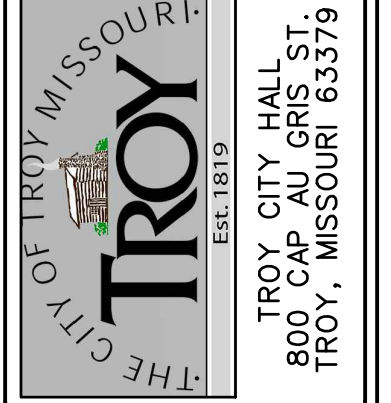
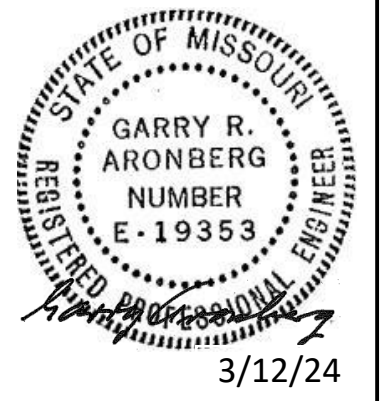


SECTION "A-A"
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**FIRE HYDRANT DETAIL
DETAIL "B"**

REV.	DATE	BY	APP.	DESCRIPTION

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US-61 AND ROUTE 47
 WATERLINE
 RELOCATION
 FIRE HYDRANT DETAILS

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CHECKED:	GRA
SHEET SEQUENCE:	8 OF 8
DATE:	March 12, 2024