




JORDAN VALLEY WATER CONSERVANCY DISTRICT

PIPELINE REPLACEMENT 2025 WOODSTOCK AREA

**PROJECT NUMBER: 4365
JANUARY 2025**




Know what's below.
Call before you dig.

13593208-2202 CONOR TYSON	13593208-2202 CONOR TYSON	DESIGN: JOHN KAHL DRAFTER: TODD PETERSON PROJ. MGR: JOHN KAHL DATE: 12/6/24	LINE IS 1 INCH AT 11X17 SIZE SHEET	ZONE REV:	DESCRIPTION:	BY:	DATE:	APP:			
 JORDAN VALLEY WATER CONSERVANCY DISTRICT 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300				2025 PIPELINE REPLACEMENT COVER					PROJECT NUMBER 4365	DRAWING NUMBER G-1	SHEET NUMBER 1 OF 21

GENERAL NOTES:

1. Utilities shown on the drawing are based on the best available information provided by others and should be considered approximate and for general information only. Information is shown for the convenience of the contractor but is not guaranteed to be either correct or complete, and all responsibility for accuracy and completeness thereof is expressly disclaimed. Contractor is responsible to locate and protect all utilities in the project area, including those that may not be shown or that may be shown incorrectly. Contractor is solely responsible for the repair of and utility damaged as a result of the contractor's activities.
2. The Contractor shall make such investigations 200' ahead of excavation to locate underground utilities and structures so as not to accidentally damage them during construction operations. The Contractor shall be responsible for repair of any underground utilities damaged during construction activities.
3. Contractor shall be responsible for contacting Blue Stakes 48 hours prior to excavating.
4. Protect all existing pavement, sidewalk, curb and gutter, park strips, structures, turf, and existing utilities. Repair or replace if damaged or disturbed at no additional cost to the owner.
5. Contractor shall repair or replace all disturbed curb, gutter, sidewalk, road striping, and asphalt to appropriate city standards and specifications.
6. Contractor shall modify/repair existing sprinkler systems as required to cover affected landscape areas disturbed by construction. i.e. A new fire hydrant blocking sprinklers would require relocation of affected sprinklers.
7. Connect existing copper residential water lines into the new water main.
8. All water line crossings of sanitary sewer shall have a minimum edge to edge spacing of 18" (vertical).
9. All water lines shall cross sanitary sewer lines at a 90° angle whenever possible.
10. All water lines shall maintain a minimum of 10'-0" edge to edge spacing from sanitary sewer lines unless otherwise specified.
11. New PVC pipe line shall be installed 36" from the center of the pipe to the curb whenever possible unless otherwise specified.
12. Contractor shall be responsible for all excavation,

- road cut, land disturbance, SWPP, and building permits with all agencies/entities impacted by construction (city, state, federal, business, private, etc).
13. Contractor shall replace all signal loops disturbed by pipeline installation activities.
14. Contractor shall be responsible for flagging, caution signs, traffic control, and public safety on all adjacent streets and construction site per MUTCD.
15. Contractor shall be responsible for public safety and OSHA safety standards.
16. Contractor shall be responsible for notification of residents of construction on their road 72 hours prior to an excavation of disruption of water main service.
17. Contractor shall attend all pre construction and construction conferences.
18. All construction staking required by the Contractor shall be provided by the Contractor at the Contractor's expense.
19. Contractor shall be responsible for care of all construction stakes.
20. Contractor to space utilities to provide minimum distances as required by local, county, state, and individual utility codes.
21. All materials and construction shall be in accordance with Jordan Valley Water Conservancy District standards and specifications.
22. All water lines shall be a minimum of 4 feet below finished grade to top of pipe unless otherwise noted.
23. Contractor shall reconnect all services using existing copper pipe. All galvanized and black poly services shall be replaced according to the Jordan Valley Water Conservancy District specification.
24. All service lateral locations are estimated.
25. Contractor shall loop existing services or new water line as necessary when approved by the Engineer.
26. Water line loops shall be performed in accordance with APWA Plan 542.
27. Completed water lines shall be disinfected according to AWWA standards and Jordan Valley Water Conservancy District specifications.
28. Contractor shall notify Engineer of chlorine test prior to flushing lines, with chlorine left in pipe a minimum of 24 hours with 25 ppm residual. All turning of main line valves, chlorination testing, flushing, pressure testing, bacteria testing, etc. to be

- coordinated with Jordan Valley Water Conservancy District. Heavily chlorinated water shall be dechlorinated while flushing.
29. All bends, tees, and other fittings in water line to be supported with concrete thrust blocks and restrained with Mega-Lug followers at joints, unless otherwise noted.
30. All ductile iron valves, fittings and hydrants exposed to soil shall be wrapped with 8 mil thick polyethylene film tube. All exposed nuts & bolts shall be liberally coated with FM grease prior to wrapping. The film shall be held in place by 2-inch wide plastic backed adhesive tape equal to Polyken No. 900 or Scotchrap No. 50. The tape shall be installed to tightly secure the film to the pipe. Enough film shall be used to overlap adjoining sections of film a minimum of one (1) foot.
31. Contractor shall be responsible for all erosion control.
32. Contractor shall employ BMP around all storm drains.
33. Existing pipe lines shall be abandoned in place. For pipelines 2 inches to 8 inches (inside diameter) abandon by removing the valve box and capping or plugging all open ends with concrete. For pipe lines 10 inches and larger, the cap shall be at least 24 inches thick. Follow the abandonment procedure set forth by UDOT including filling with flowable fill for all pipelines 6 inches and larger.
34. Existing water lines shall not be abandoned until new utilities are installed, tested, and accepted by the Jordan Valley Water Conservancy District.
35. Contractor shall legally dispose of all excess excavated material/debris off site unless otherwise noted.
36. Contractor shall supply redlines for preparation of record drawings.
37. Engineer or Engineer's Representative shall field verify all hydrant and valve locations.
38. Contractor shall be responsible to contact Salt Lake County Surveyor's office prior to disturbing any survey monument. Replace monuments at contractor's expense.
39. Contractor shall not assume there are fewer service laterals (for water, and also all other utilities, whether shown on the plans or not), than there are homes or other structures, where project trenches are located between a home or structure and utility main.

40. Contractor shall be prepared for fiber system laterals, and should recognize different fiber company lay at different depths.
41. Costs for crossing all laterals for mains on plans shall be included in bid costs.
42. Contractor shall remove all existing valve boxes on the abandoned waterlines and restore landscape and pavement.

LEGEND:

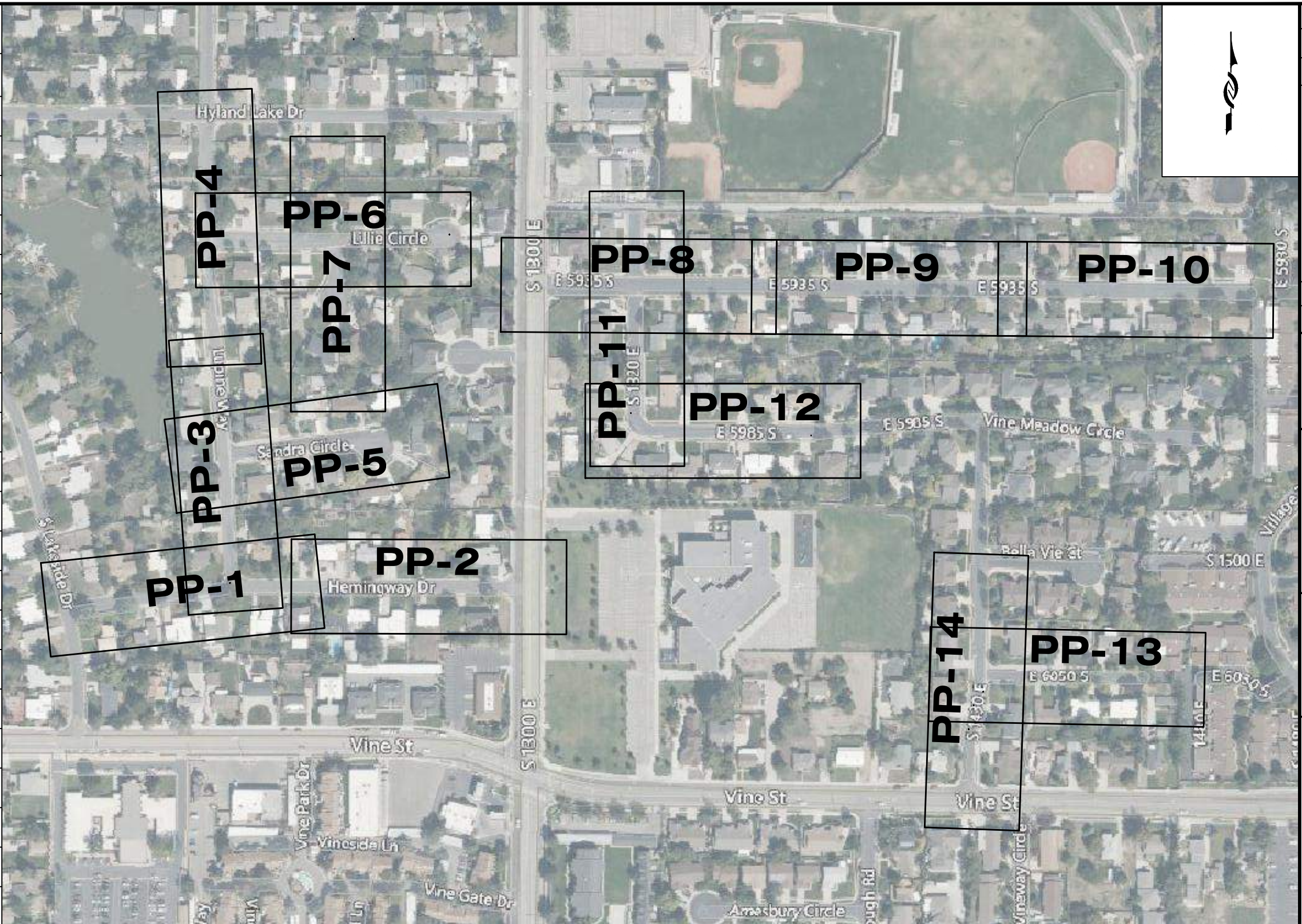
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BURIED FIBER OPTIC	_____	fo
BURIED TELEPHONE	_____	bt
BURIED NATURAL GAS	_____	g
EDGE OF ASPHALT	_____	ea
STORM DRAIN	_____	sd
SANITARY SEWER	_____	ss
EXISTING WATER LINE	_____	w
NEW WATER LINE	_____	8 w

WATER METER	
WATER VALVE	
FIRE HYDRANT	
SANITARY SEWER MANHOLE	
STORM DRAIN MANHOLE	
POLE	
GUY WIRE	
WATER QUALITY SAMPLING STATIONS	

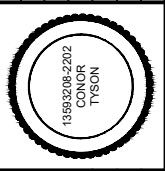
811
Know what's below.
Call before you dig.

	LINE IS 1/8" INCH AT 1/4" X 7/8" SIZE SHEET DESIGN: JOHN KAHLE DRAFTER: TODD PETERSON PROJ. MGR: JOHN KAHLE DATE: 12/16/24	JORDAN VALLEY WATER CONSERVANCY DISTRICT 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 566-4300	2025 PIPELINE REPLACEMENT NOTES	PROJECT NUMBER 4365 DRAWING NUMBER G-2 SHEET NUMBER 2 OF 21	ZONE REV. BY DATE APP.
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PP-8	5935 SOUTH -1
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ZONE	REV.	DESCRIPTION	BY	DATE	APP



DESIGN: JOHN KAHL
 DRAFTER: TODD PETERSON
 PROJ. MGR: JOHN KAHL
 DATE: 12/6/24

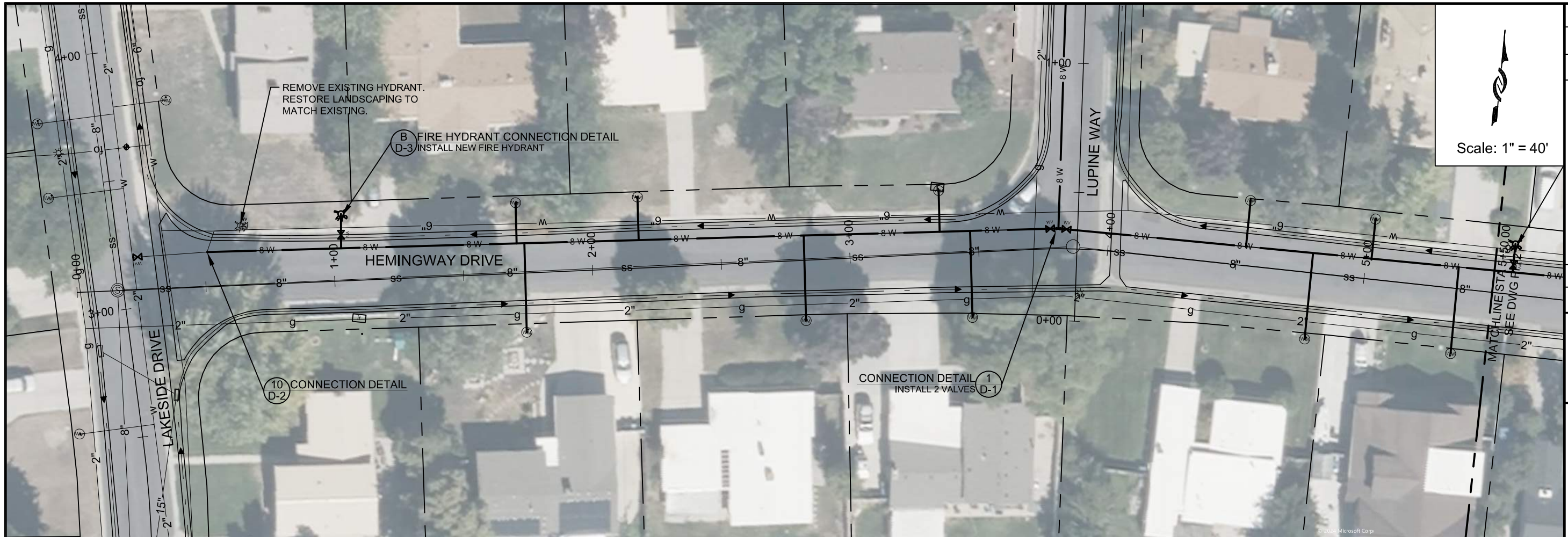


2025 PIPELINE REPLACEMENT
 AREA MAP

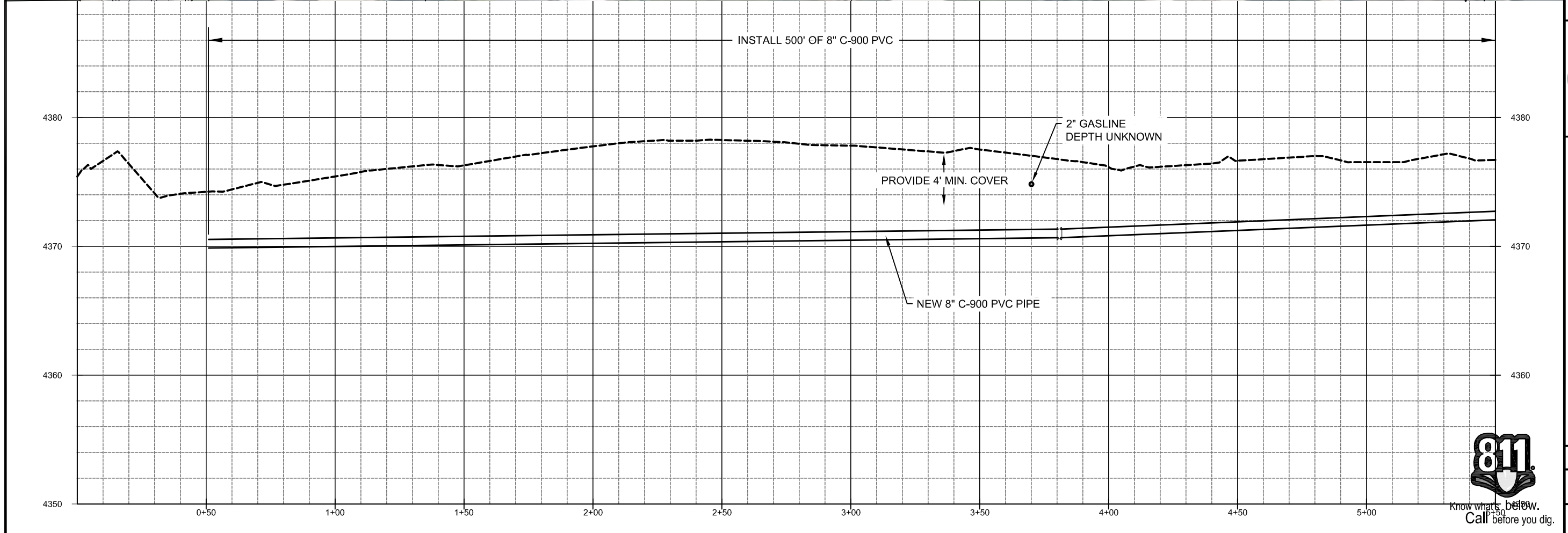
PROJECT NUMBER
4365
 DRAWING NUMBER
G-3
 SHEET NUMBER
3 OF **23**



Know what's below.
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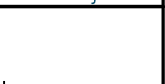
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 1/8" INCH AT 1/4" X 7" SIZE SHEET

DESIGN: JOHN KAHLER
 DRAFTER: TODD PETERSON
 PROJ. MGR: JOHN KAHLER
 DATE: 1/2/25



JORDAN VALLEY WATER CONSERVANCY DISTRICT
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2025 PIPELINE REPLACEMENT
 HEMINGWAY DR -1

PROJECT NUMBER: 4365
 DRAWING NUMBER: PP-1
 SHEET NUMBER: 4 OF 21



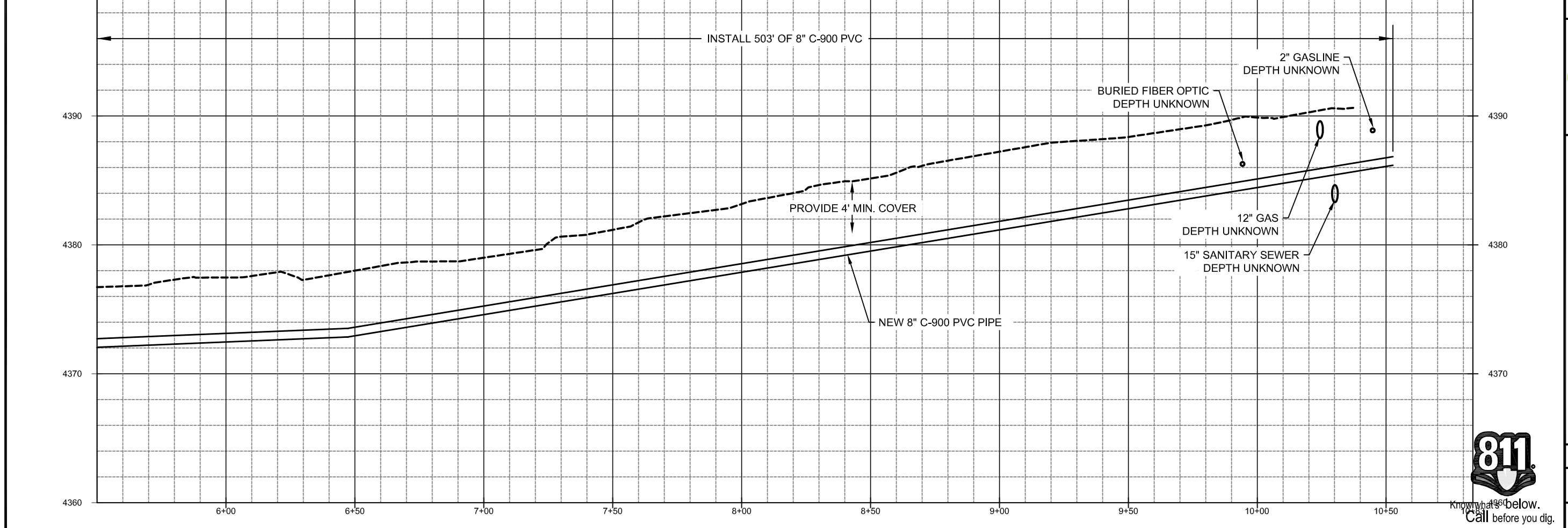
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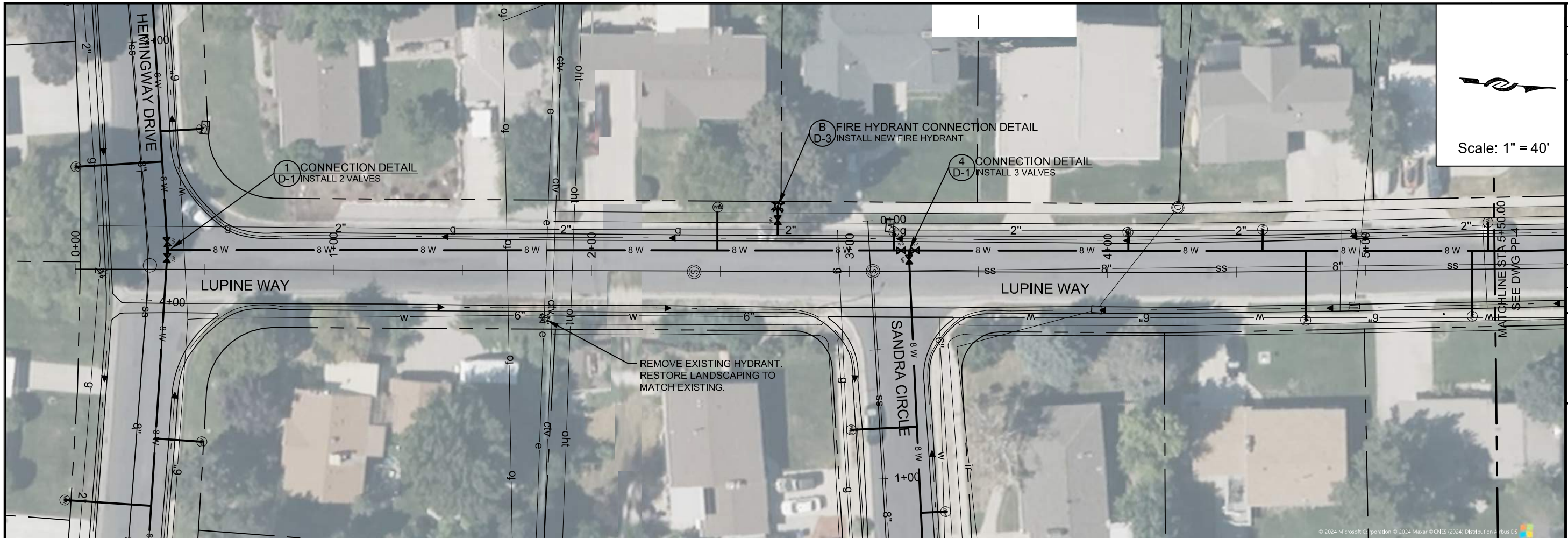

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2025 PIPELINE REPLACEMENT
 HEMINGWAY DR - 2

PROJECT NUMBER	4365
DRAWING NUMBER	PP-2
SHEET NUMBER	5 OF 21



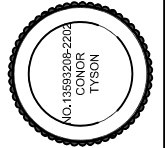
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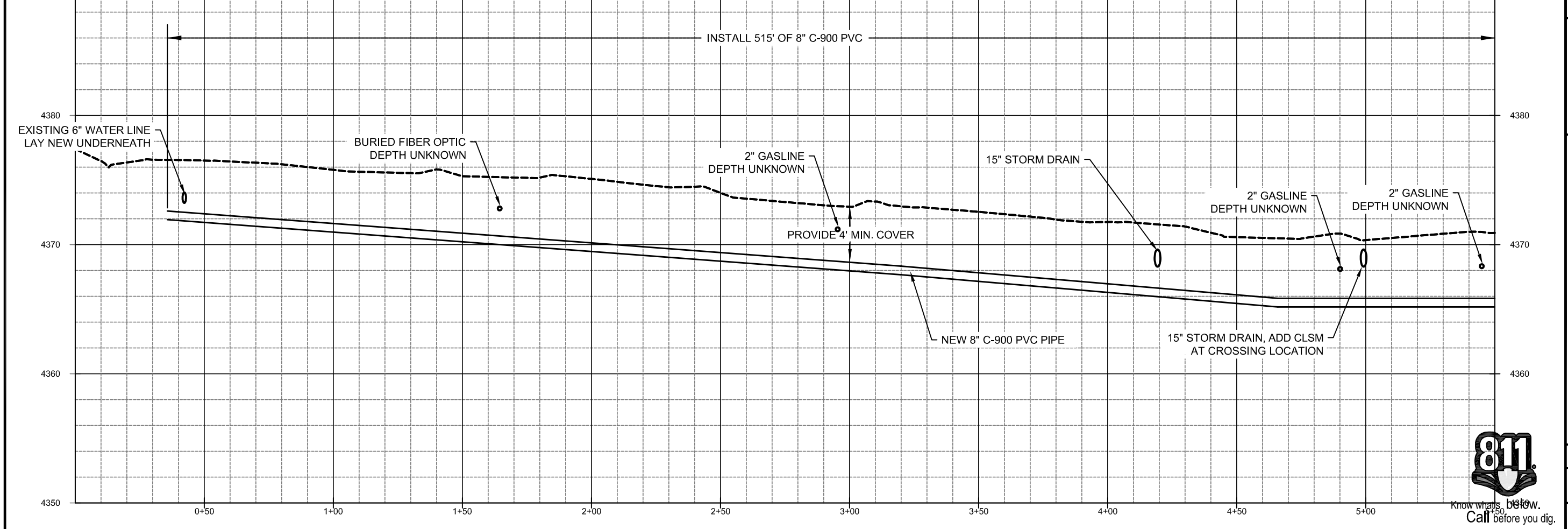
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.



DESIGN: JOHN KAHLER
 DRAFTER: TODD PETERSON
 PROJ. MGR: JOHN KAHLER
 DATE: 1/6/25



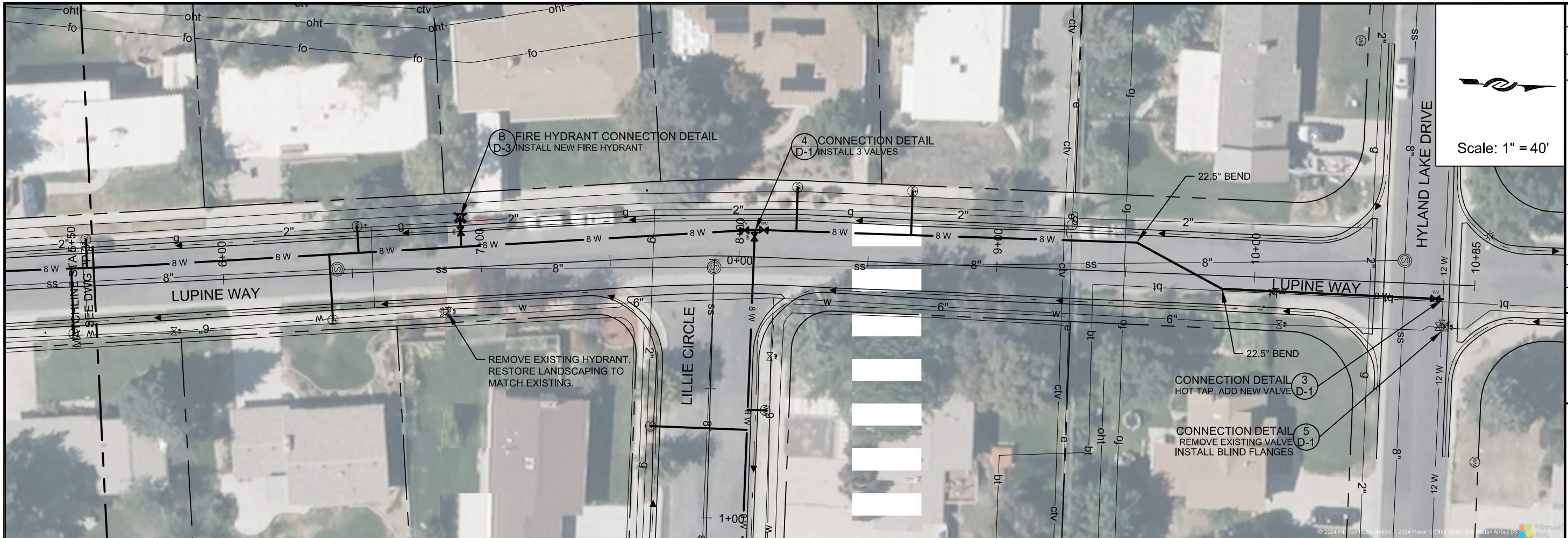
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 LUPINE WAY - 1

PROJECT NUMBER
4365

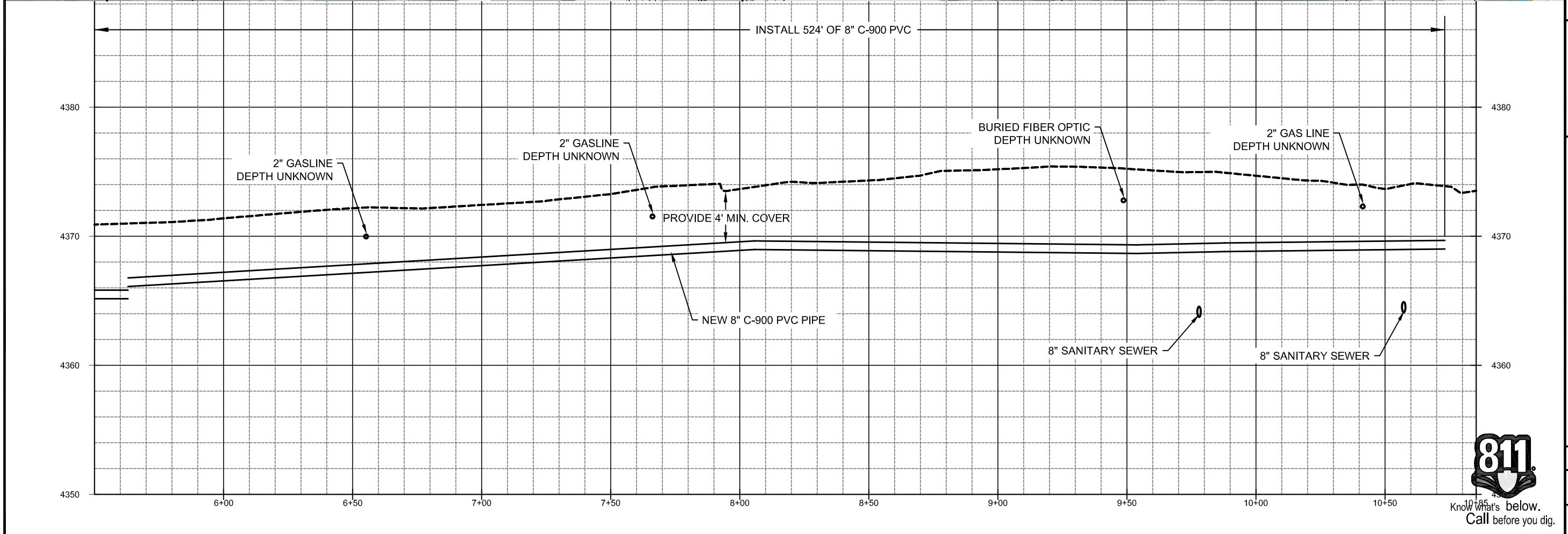
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PP-3

SHEET NUMBER
6 OF 21



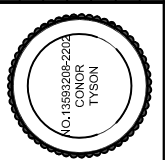


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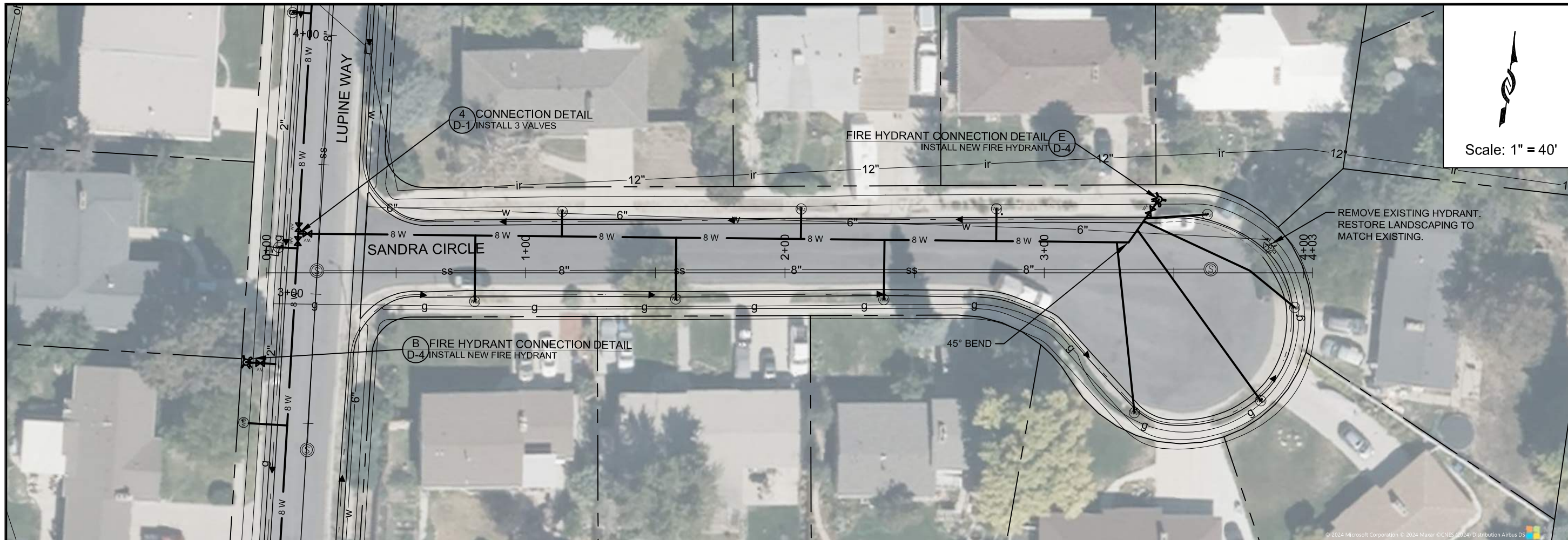
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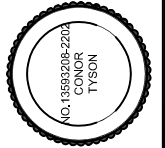
DESIGN: JOHN KAHLE
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 DATE: 1/6/25



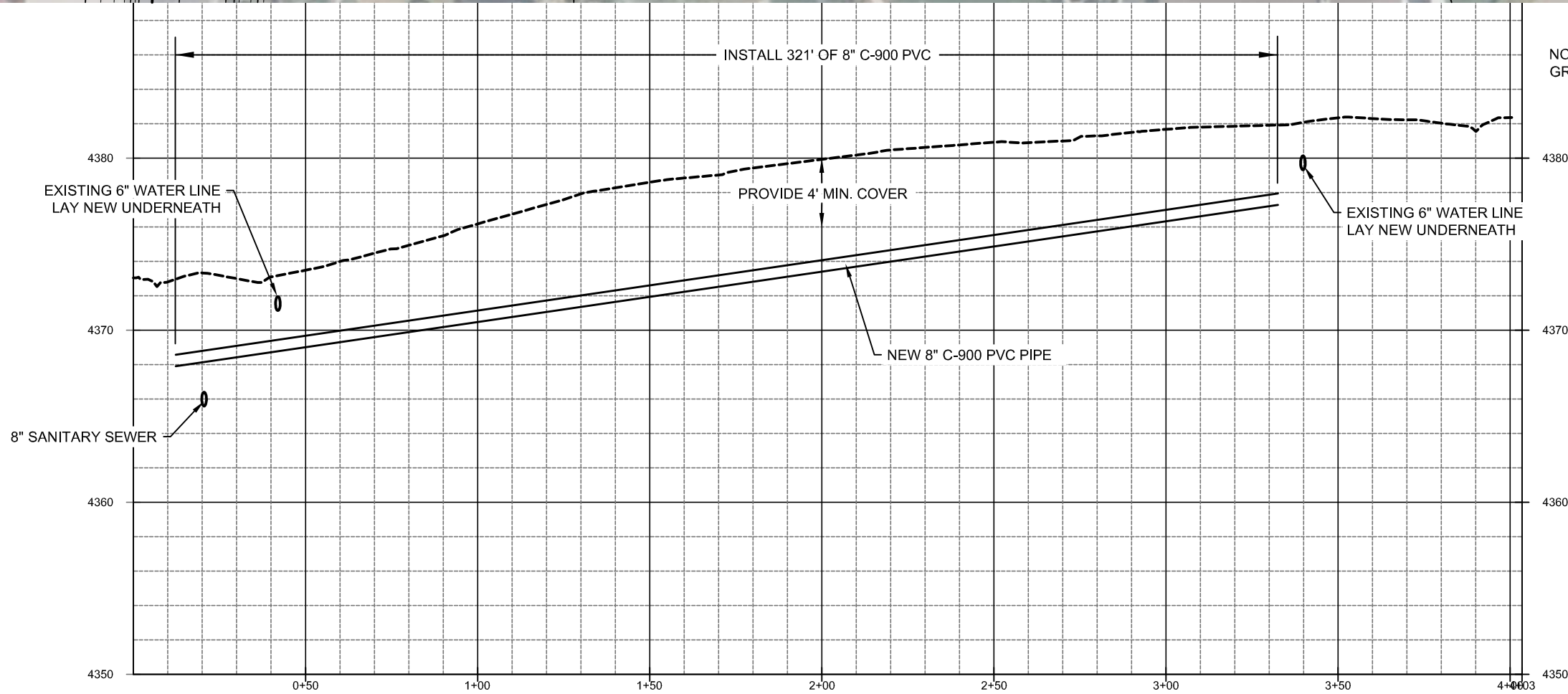
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 SHEET NUMBER: 7 OF 21



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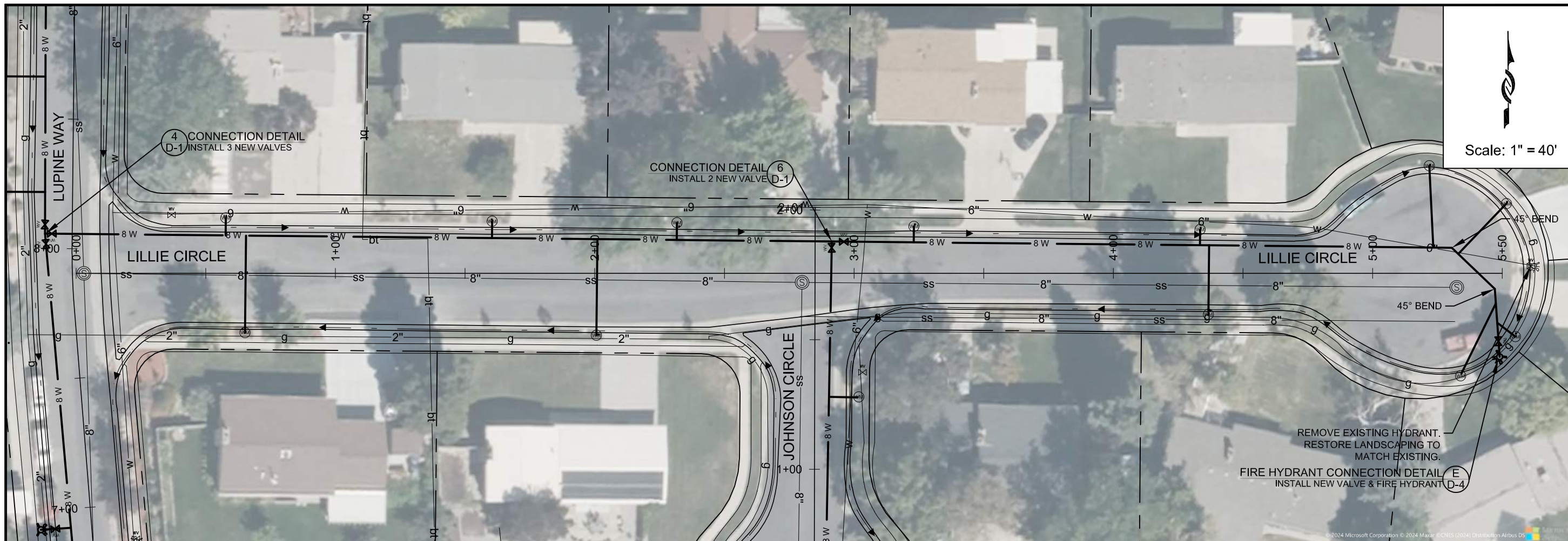
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 PROJ. MGR: JOHN KAHL
 DATE: 1/2/25



NOTE: ALL LATERAL TAPS MUST BE GREATER THAN 36" APART.

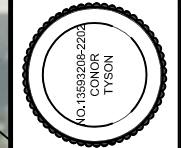


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PROJECT NUMBER	4365
DRAWING NUMBER	PP-5
SHEET NUMBER	8 OF 21

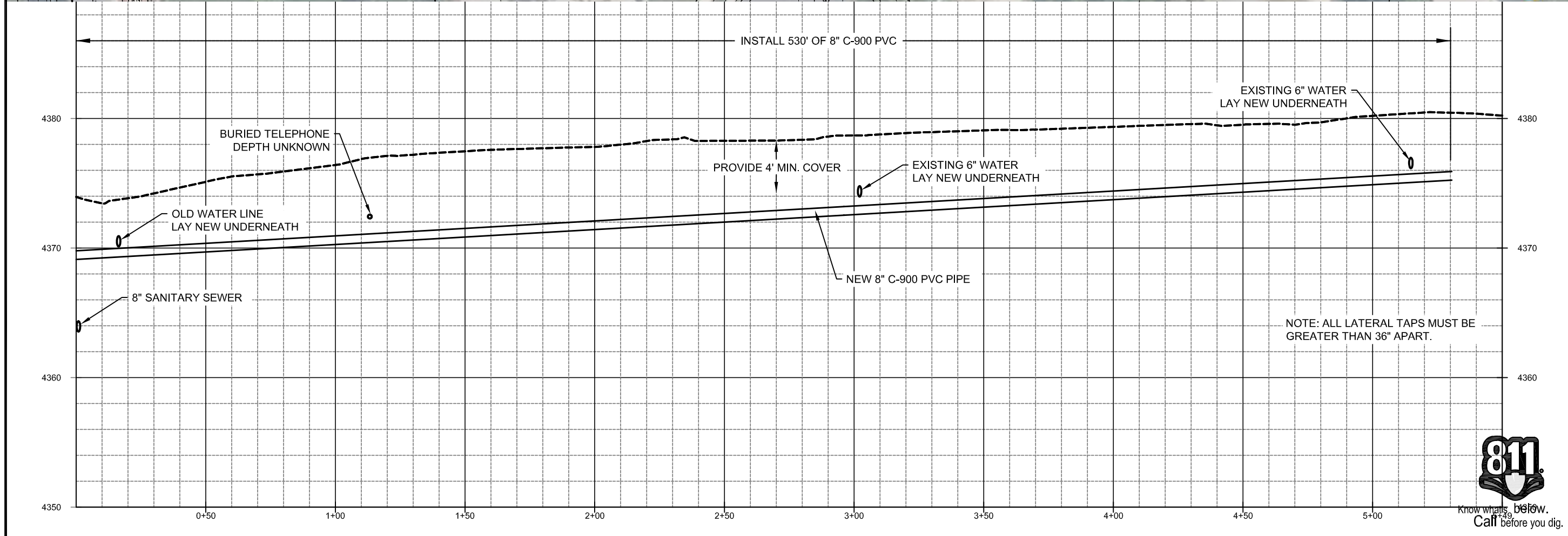


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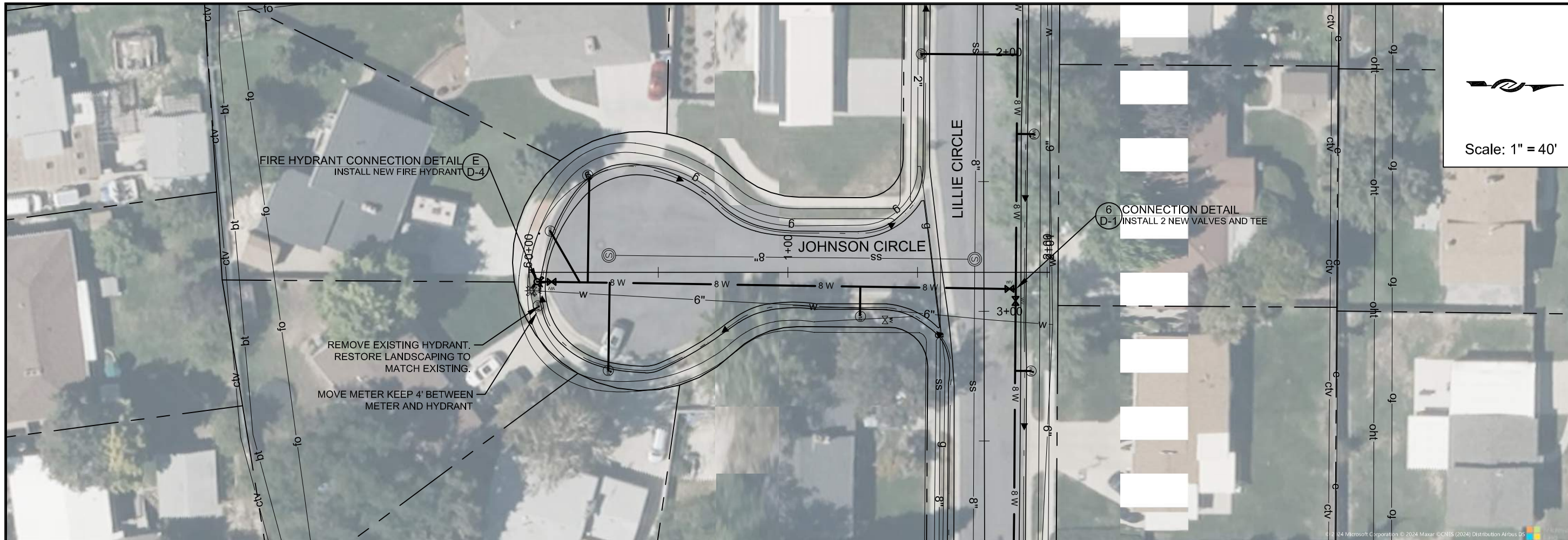


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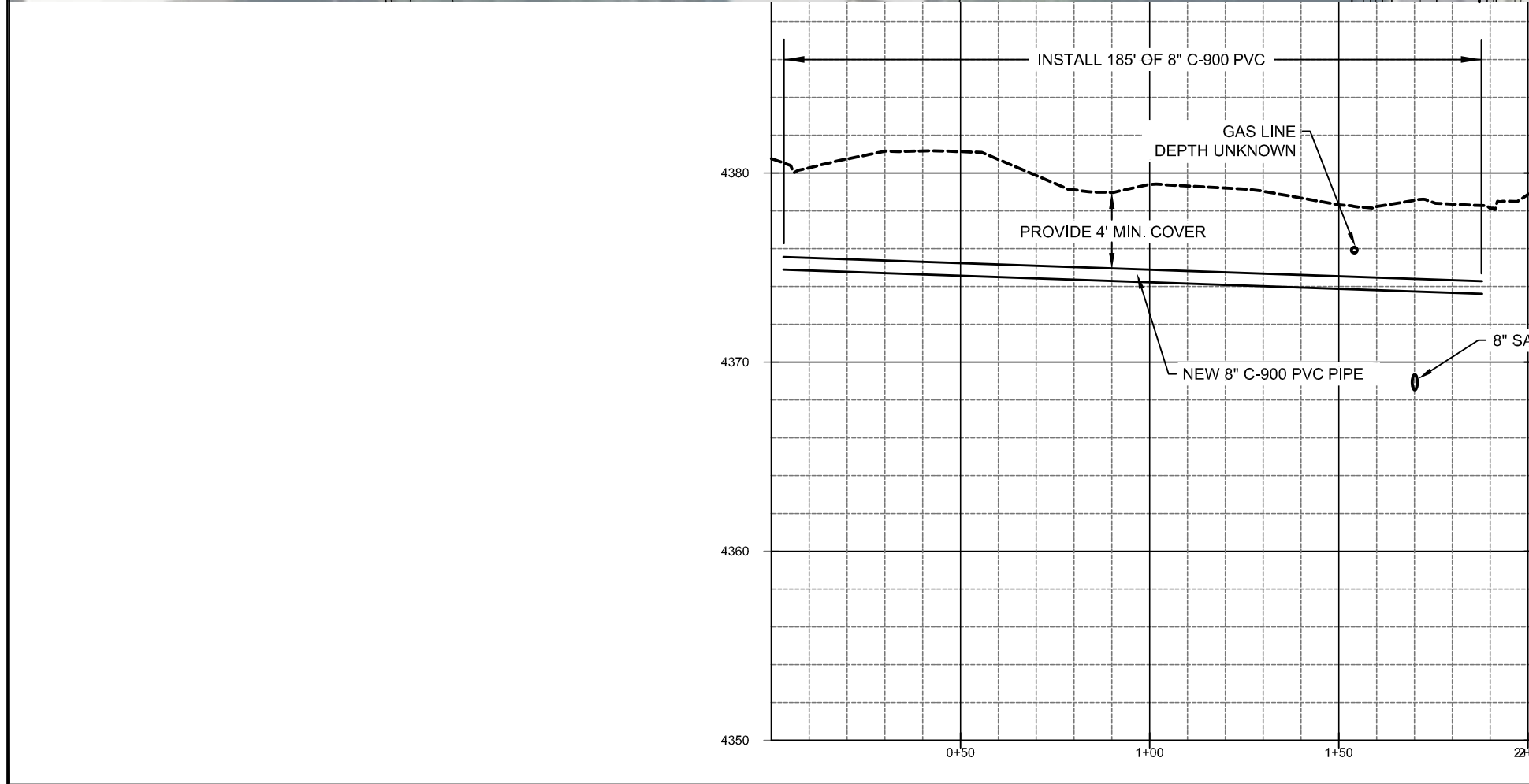


2025 PIPELINE REPLACEMENT
 LILLIE CIRCLE
 PROJECT NUMBER 4365
 DRAWING NUMBER PP-6
 SHEET NUMBER 9 OF 21





Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DESIGN: JOHN KAHLE
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 PROJ. MGR: JOHN KAHLE
 DATE: 1/6/25

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 CONSERVANCY DISTRICT
 8215 SOUTH 1300 WEST
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 PHONE (801) 565-4300

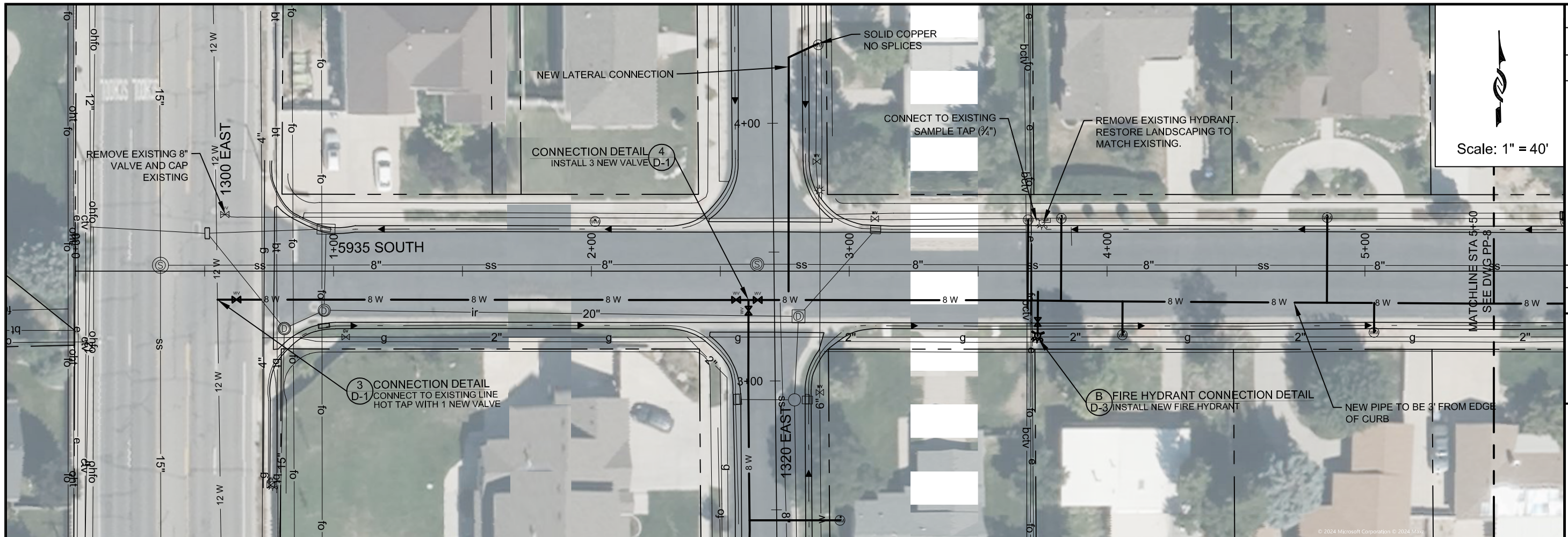
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JOHNSON CIRCLE

PROJECT NUMBER
4365

DRAWING NUMBER
PP-7

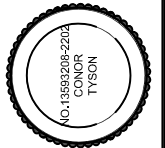
SHEET NUMBER
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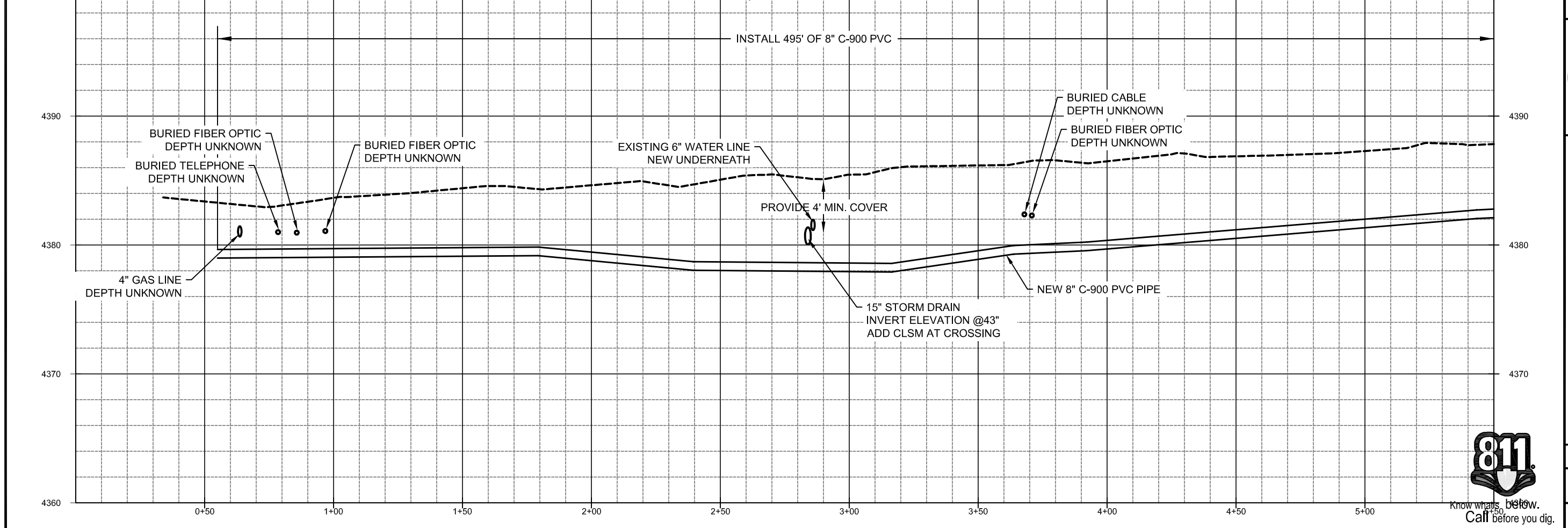
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH
AT 1/4" SIZE SHEET

DESIGN: JOHN KAHLER
DRAFTER: TODD PETERSON
PROJ. MGR: JOHN KAHLER
DATE: 1/6/25



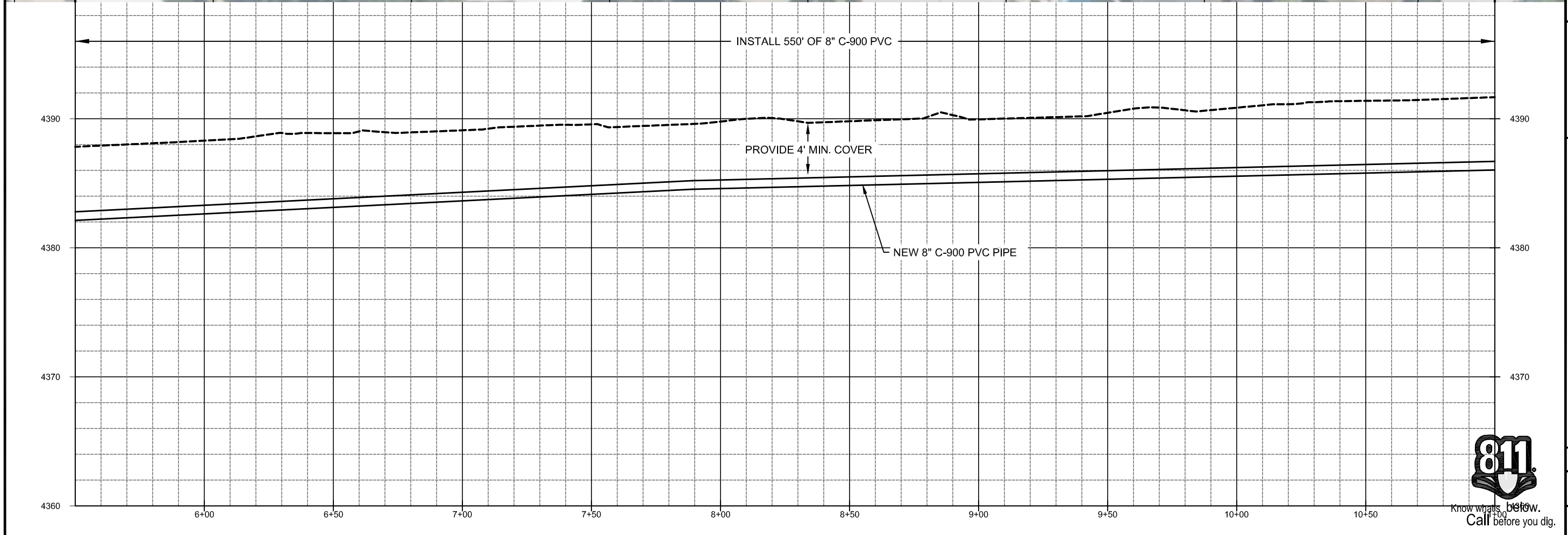
2025 PIPELINE REPLACEMENT
5935 SOUTH - 1

PROJECT NUMBER
4365

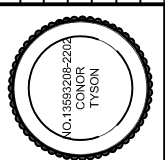
DRAWING NUMBER
PP-8

SHEET NUMBER
11 OF 21





ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH AT 1/4" X 1/4" SIZE SHEET

DESIGN: JOHN KAHLE
 DRAFTER: TODD PETERSON
 PROJ. MGR: JOHN KAHLE
 DATE: 1/6/25

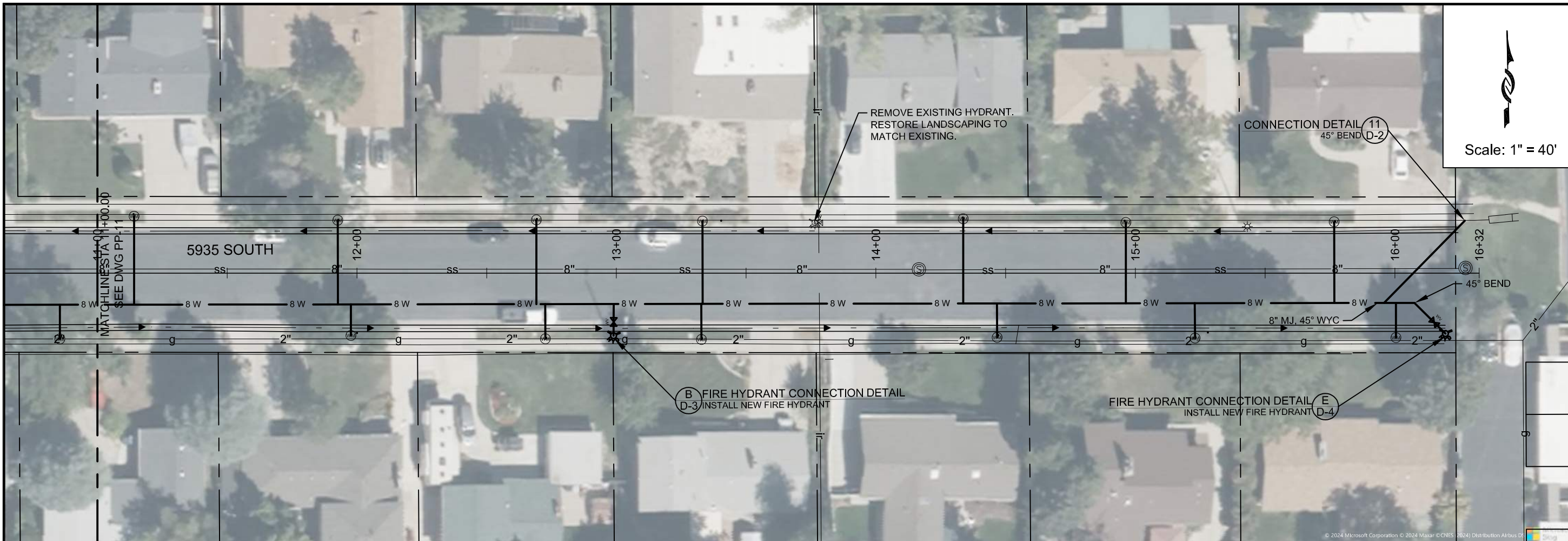


2025 PIPELINE REPLACEMENT
 5935 SOUTH -2

PROJECT NUMBER
 4365

DRAWING NUMBER
 PP-9

SHEET NUMBER
 12 OF 21



Scale: 1" = 40'

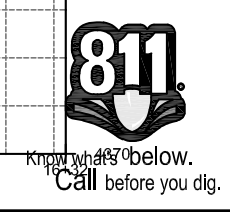
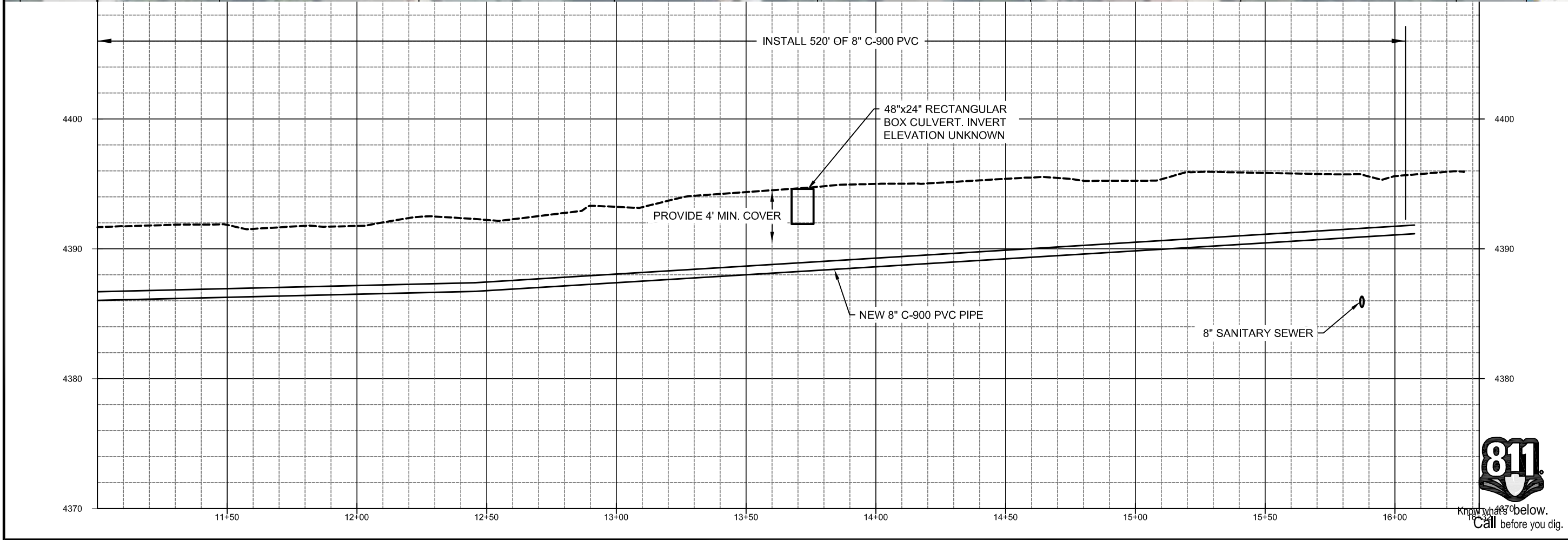
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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 DATE: 1/6/25

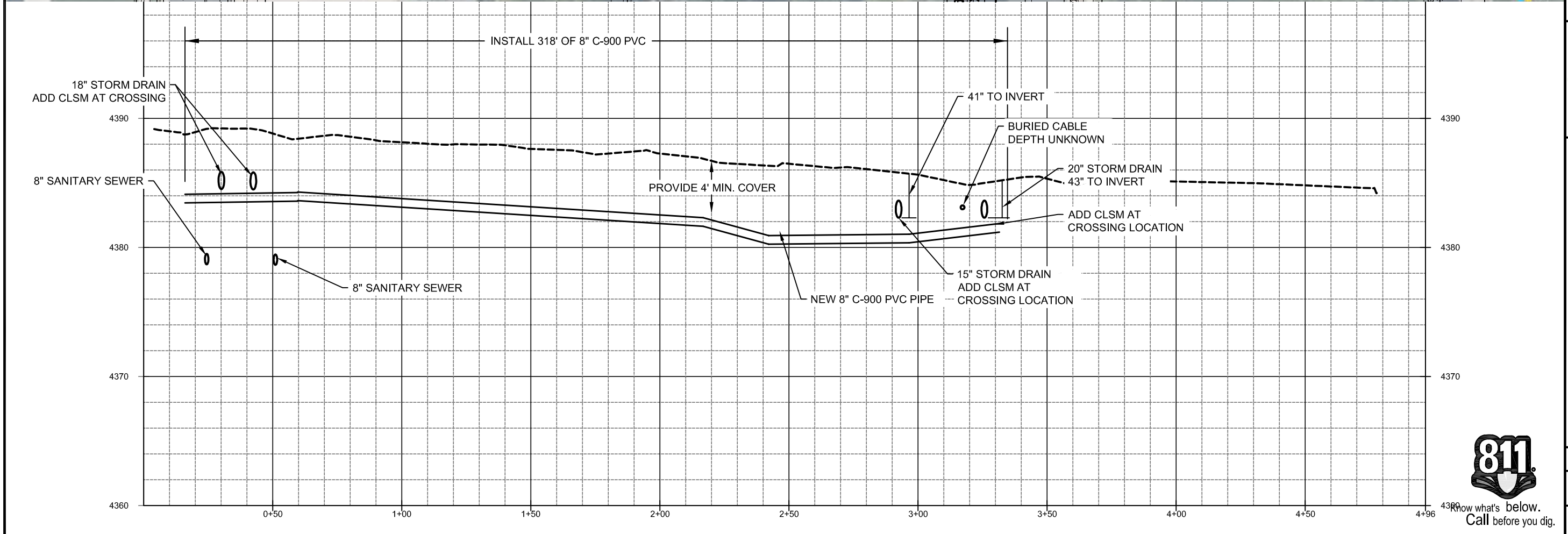
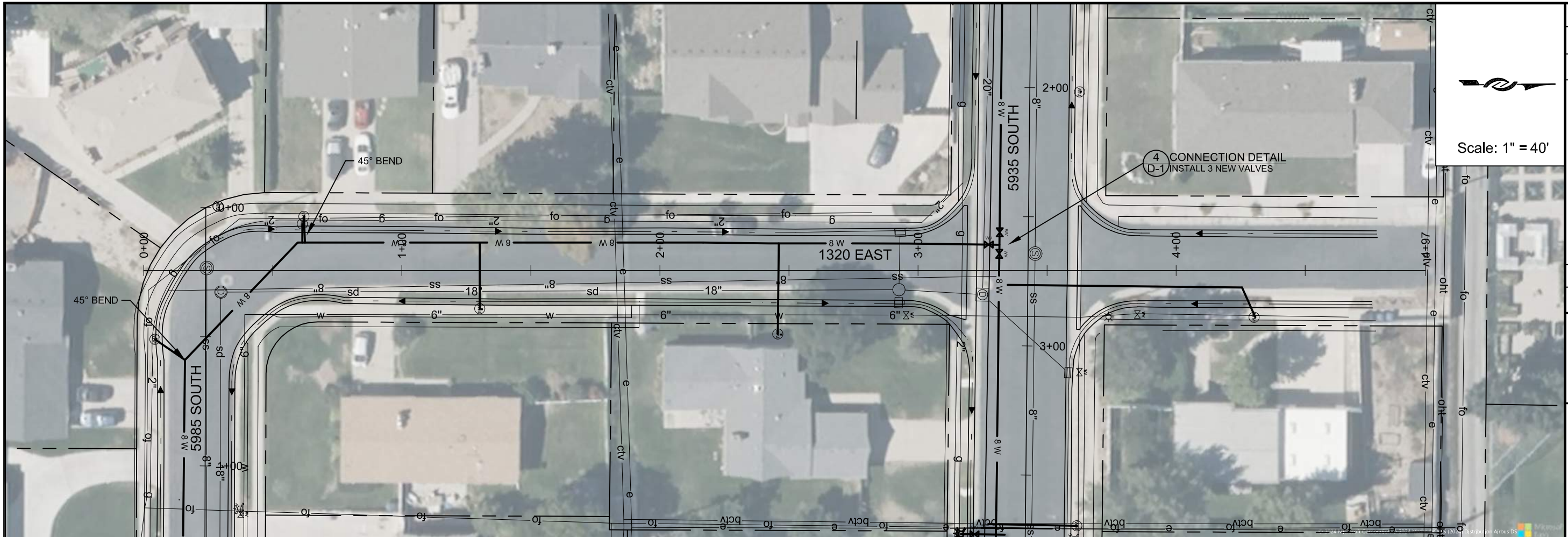
JORDAN VALLEY WATER CONSERVANCY DISTRICT
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2025 PIPELINE REPLACEMENT
 5935 SOUTH -3

PROJECT NUMBER: 4365
 DRAWING NUMBER: PP-10
 SHEET NUMBER: 13 OF 21



I:\PIPELINE\DISTRIUTION SYSTEM\4365 - DIST PIPELINE WOODSTOCK\ENGINEERING\DRAWING\4365 DESIGN LAYOUTS.DWG 46.53M



ZONE	REV	DESCRIPTION	BY	DATE	APP.

DESIGN: JOHN KAHLER
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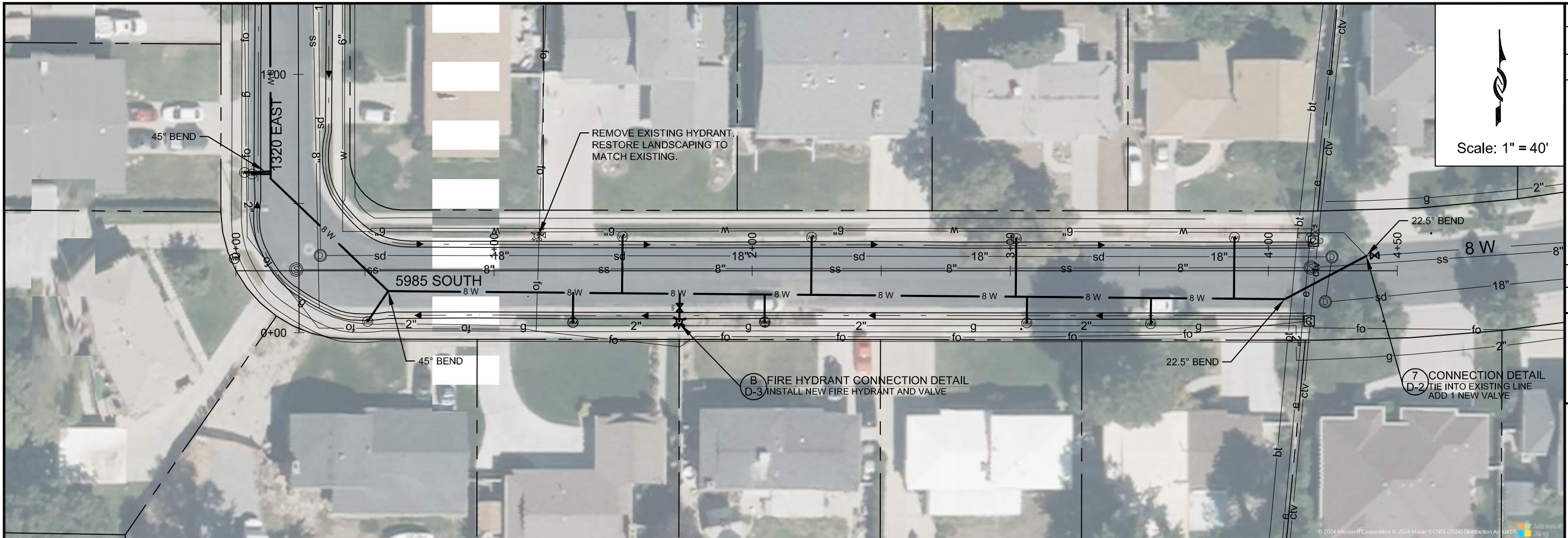
JORDAN VALLEY WATER CONSERVANCY DISTRICT
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2025 PIPELINE REPLACEMENT
1320 EAST

PROJECT NUMBER: 4365
 DRAWING NUMBER: PP-11
 SHEET NUMBER: 14 OF 21



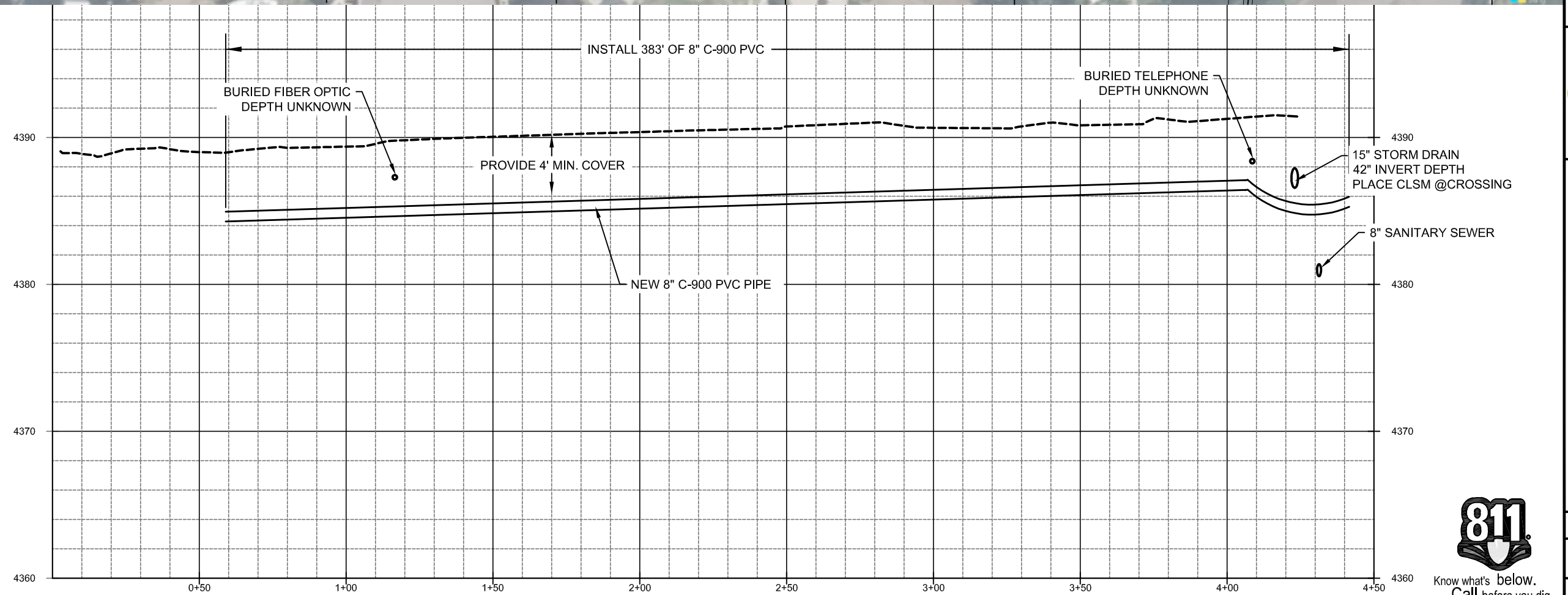
Now what's below.
 Call before you dig.



Scale: 1" = 40'

**B FIRE HYDRANT CONNECTION DETAIL
D-3
INSTALL NEW FIRE HYDRANT AND VALVE**

**7 CONNECTION DETAIL
D-2
TIE INTO EXISTING LINE
ADD 1 NEW VALVE**



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

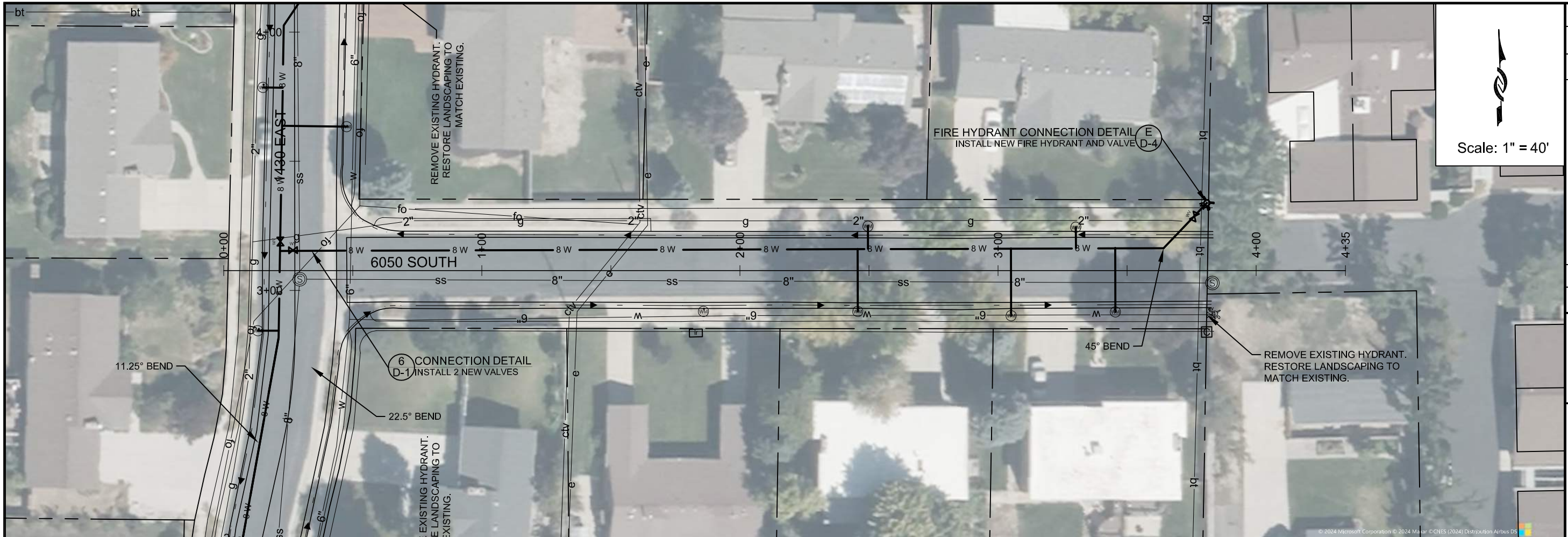

**JORDAN VALLEY WATER
CONSERVANCY DISTRICT**
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 966-4300

2025 PIPELINE REPLACEMENT
5985 SOUTH

PROJECT NUMBER
4365
 DRAWING NUMBER
PP-12
 SHEET NUMBER
15 OF 21



Know what's below.
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Scale: 1" = 40'

ZONE	REV	DESCRIPTION	BY	DATE	APP.

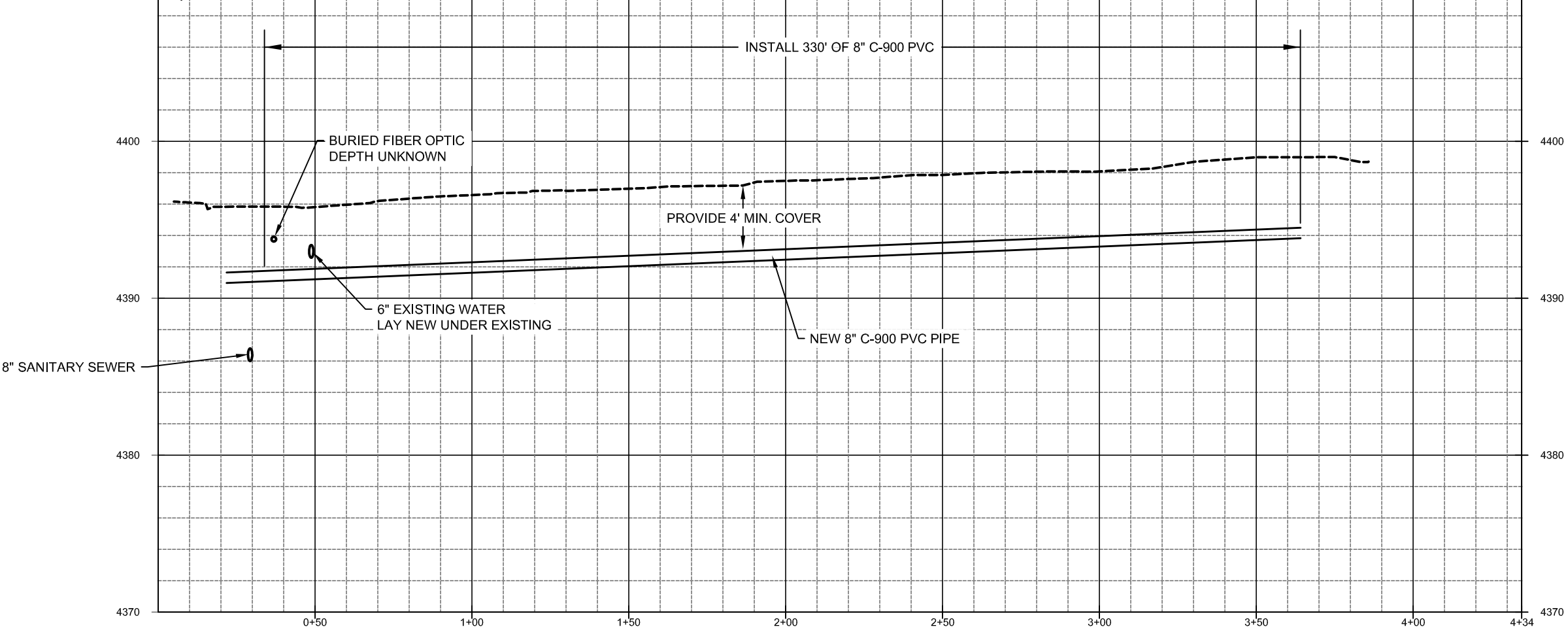


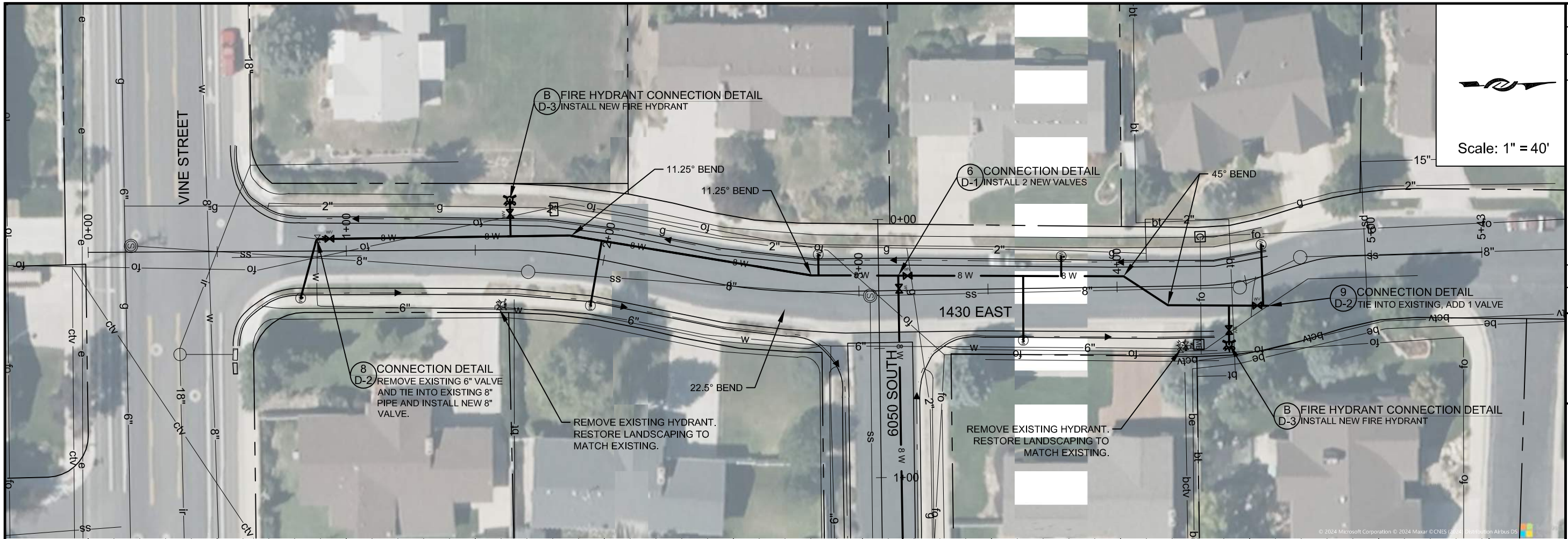
LINE IS 1/8" INCH AT 1/4" SIZE SHEET
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 PROJ. MGR: JOHN KAHLE
 DATE: 1/6/25



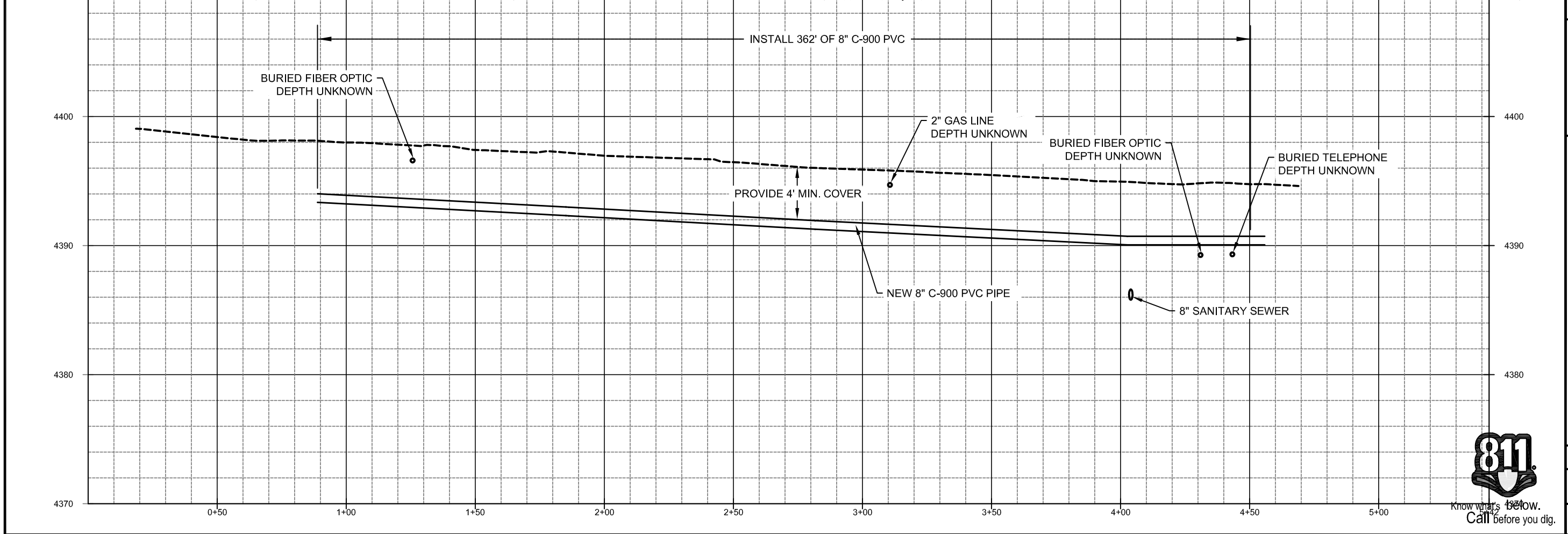
2025 PIPELINE REPLACEMENT
 6050 SOUTH

PROJECT NUMBER
 4365
 DRAWING NUMBER
PP-13
 SHEET NUMBER
 16 OF 21





Scale: 1" = 40'



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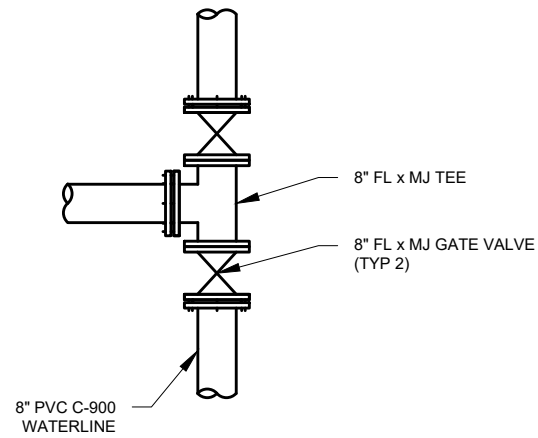
DESIGN: JOHN KAHLE	DATE: 1/6/25
DRAFTER: TODD PETERSON	
PROJ. MGR: JOHN KAHLE	

JORDAN VALLEY WATER CONSERVANCY DISTRICT
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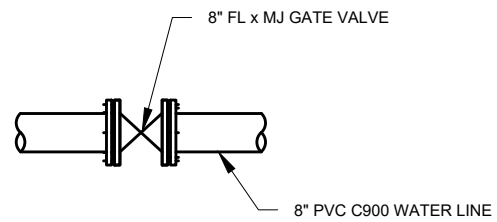
2025 PIPELINE REPLACEMENT
 1430 EAST

PROJECT NUMBER: 4365
 DRAWING NUMBER: PP-14
 SHEET NUMBER: 17 OF 21

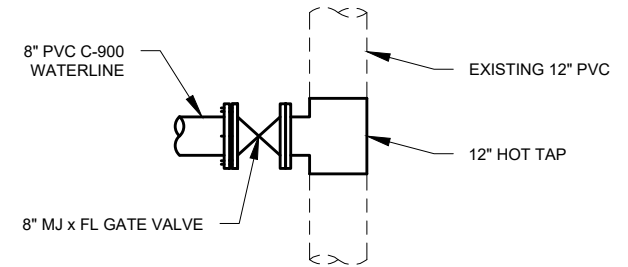
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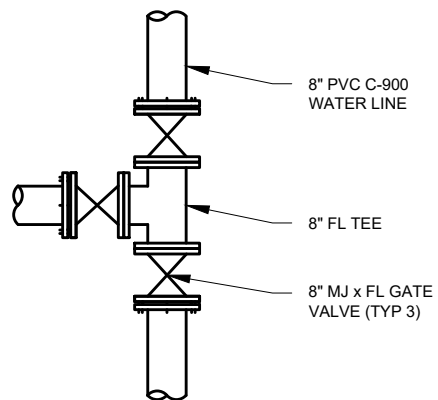
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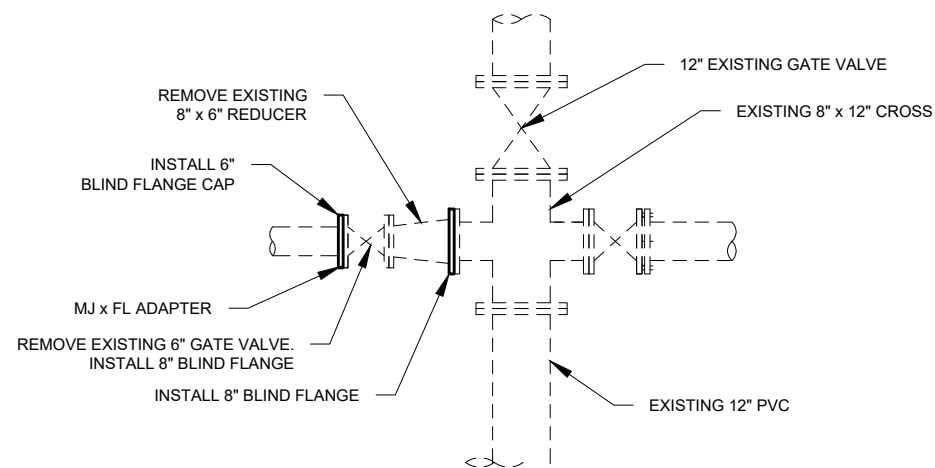
2 CONNECTION DETAIL
SCALE:NTS



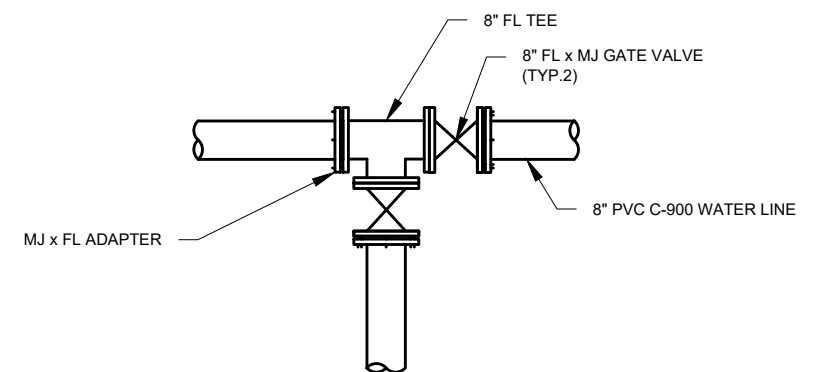
3 CONNECTION DETAIL
SCALE:NTS



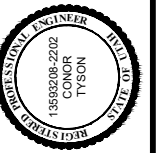
4 CONNECTION DETAIL
SCALE:NTS



5 CONNECTION DETAIL
SCALE:NTS



6 CONNECTION DETAIL
SCALE:NTS



LINE IS 1 INCH
AT 1/4" X 7/8" SIZE SHEET
DESIGN: JOHN KAHL
DRAFTER: TODD PETERSON
PROJ. MGR: JOHN KAHL
DATE: 1/3/25

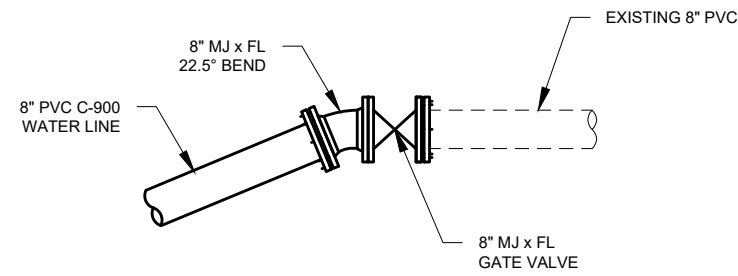
JORDAN VALLEY WATER CONSERVANCY DISTRICT
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

2025 PIPELINE REPLACEMENT
PIPE DETAILS - 1

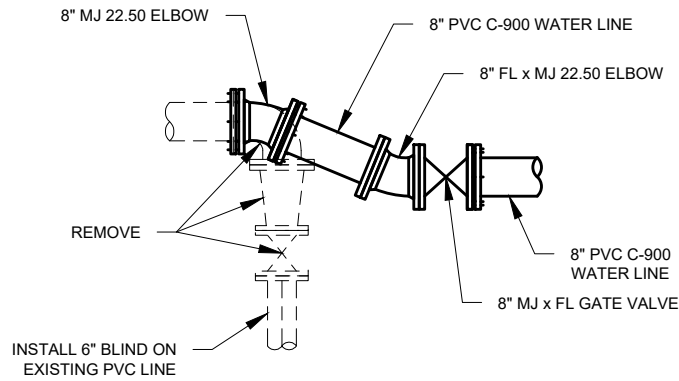
PROJECT NUMBER
4365

DRAWING NUMBER
D-1

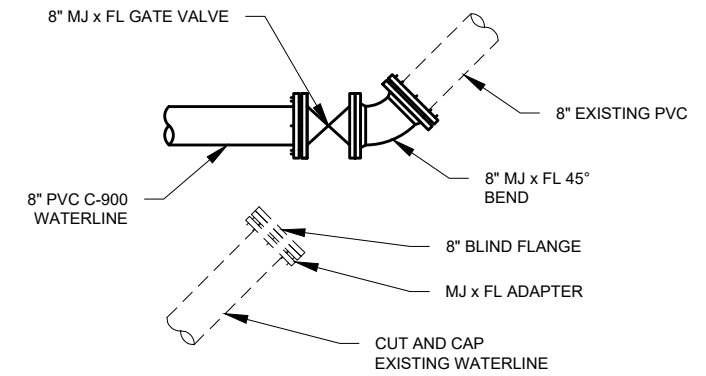
SHEET NUMBER
18 OF 21



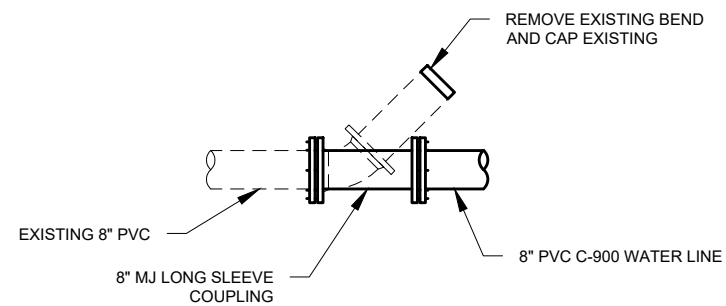
7 CONNECTION DETAIL
SCALE:NTS



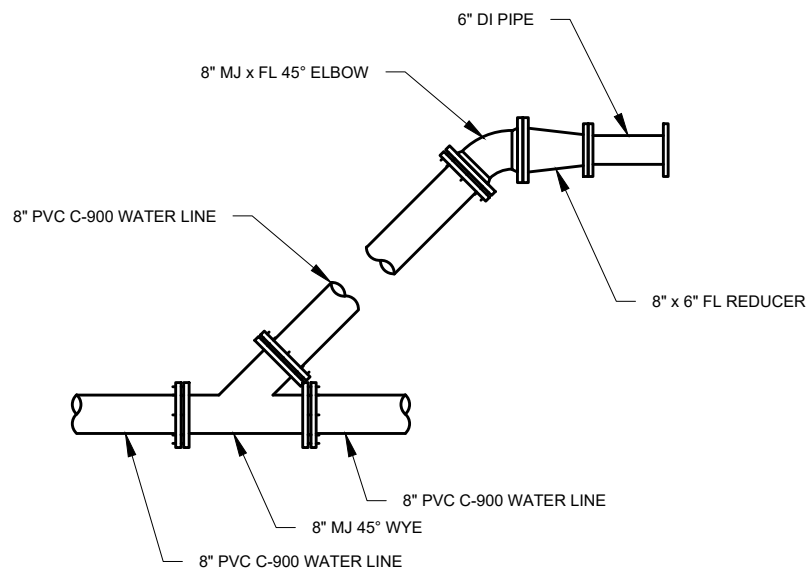
8 CONNECTION DETAIL
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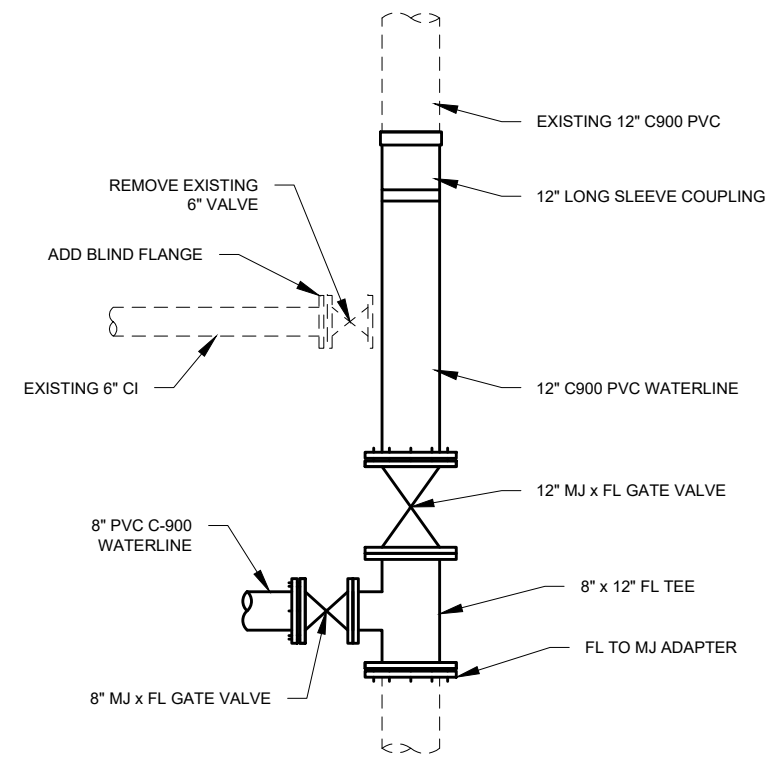
9 CONNECTION DETAIL
SCALE:NTS



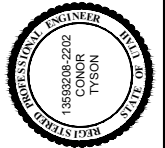
10 CONNECTION DETAIL
SCALE:NTS



11 CONNECTION DETAIL
SCALE:NTS



12 CONNECTION DETAIL
SCALE:NTS



LINE IS 1 INCH
AT 1/4" X 7/8" SIZE SHEET

DESIGN: JOHN KAHLE
DRAFTER: TODD PETERSON
PROJ. MGR: JOHN KAHLE
DATE: 1/6/25

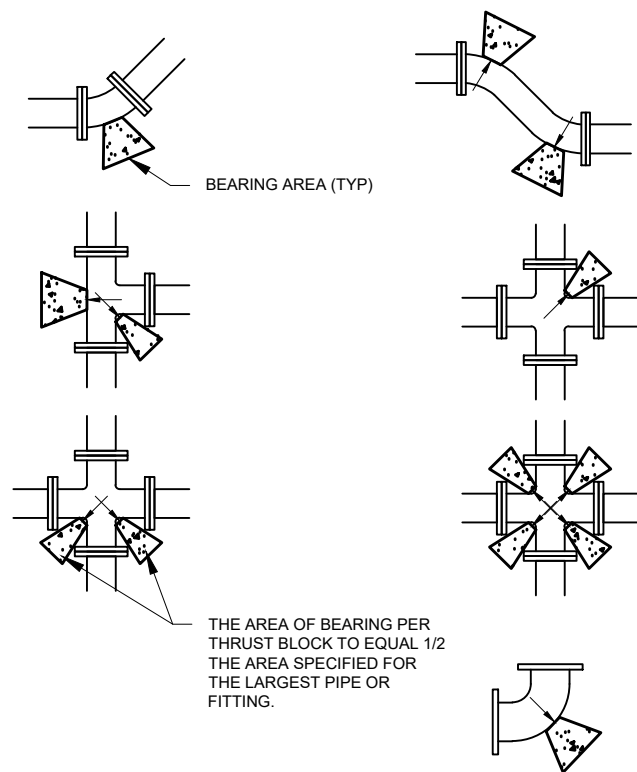


2025 PIPELINE REPLACEMENT
PIPE DETAILS - 2

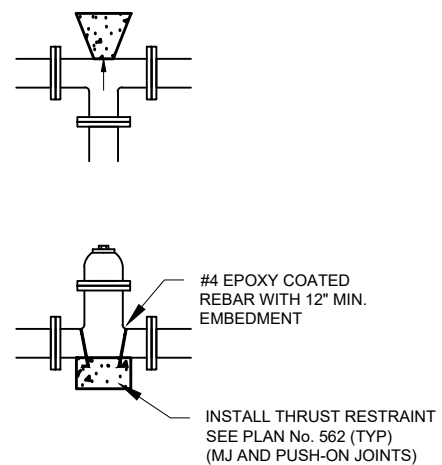
PROJECT NUMBER
4365

DRAWING NUMBER
D-2

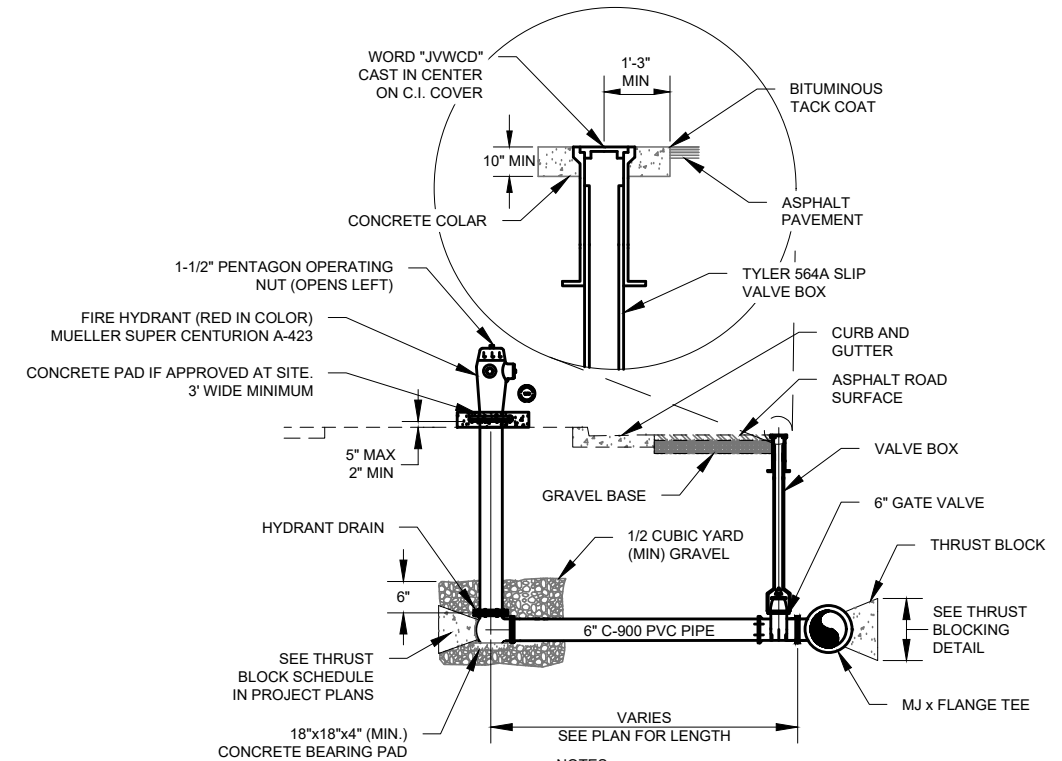
SHEET NUMBER
19 OF 21



MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

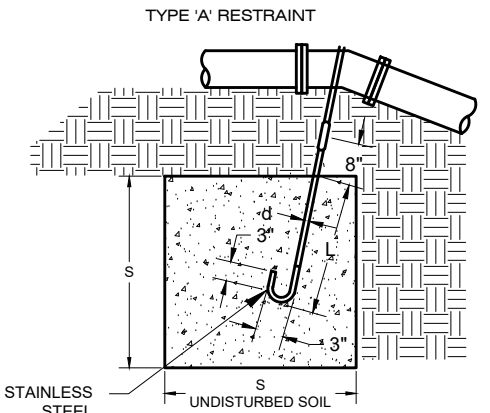


A TYPICAL THRUST BLOCK
SCALE: NTS



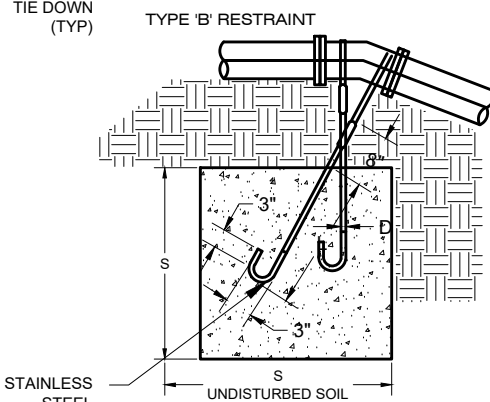
- NOTES:**
- IF FIRE HYDRANT IS GREATER THAN 20' AWAY FROM THE TEE, A SECOND GATE VALVE SHALL BE FLANGED TO FOOT OF THE FIRE HYDRANT.
 - LOCATING WIRE IS TO BE BROUGHT UP TO THE BASE OF FIRE HYDRANT, WITH OF MINIMUM 24" OF WIRE ABOVE GRADE. DO NOT BRING LOCATING WIRE UP THE VALVE BOX.
 - RESTORE LANDSCAPE TO MATCH EXISTING.
 - WITH SITE SPECIFIC AUTHORIZATION FROM ENGINEER, INSTALL HYDRANT WITH CONCRETE PAD. PAD SHALL BE MIN. 3' WIDE.

B FIRE HYDRANT DETAIL - INLINE
SCALE: NTS



TYPE 'A' RESTRAINT FOR 11 1/4" - 22 1/2" VERTICAL BENDS

TABLE OF DIMENSIONS					
PPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11.25°	8	20	5/8"	1.5
	22.5°	15.6	2.5	5/8"	2.0
6"	11.25°	15.6	2.5	5/8"	2.0
	22.5°	34.3	3.25	5/8"	2.0
8"	11.25°	27	3.0	5/8"	2.0
	22.5°	64	4.0	5/8"	2.0
10"	11.25°	45.5	3.5	3/4"	2.0
	22.5°	94.5	4.5	3/4"	3.0
12"	11.25°	64	4.0	3/4"	2.0
	22.5°	125	5.0	3/4"	3.0
14"	11.25°	86	4.4	3/4"	2.0
	22.5°	171	5.6	3/4"	3.0
16"	11.25°	107	4.25	7/8"	3.0
	22.5°	216	6.0	7/8"	4.0



TYPE 'B' RESTRAINT FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
PPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
10"	45°	6.51	5.50	5/8"	3.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
14"	45°	12.70	7.00	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	

- NOTES:**
- CONCRETE SHALL BE 4,000 PSI.
 - MIN YIELD STRENGTH OF STEEL TIE-DOWN BARS IS 70,000 PSI.
 - POUR CONCRETE AGAINST UNDISTURBED SOILS.
 - APPLY GREASE TO ALL BURIED METAL SURFACES.

C TYPICAL VERTICAL THRUST BLOCK
SCALE: NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

PROFESSIONAL ENGINEER
1989208-2202
CONOR TYSON
STATE OF UTAH

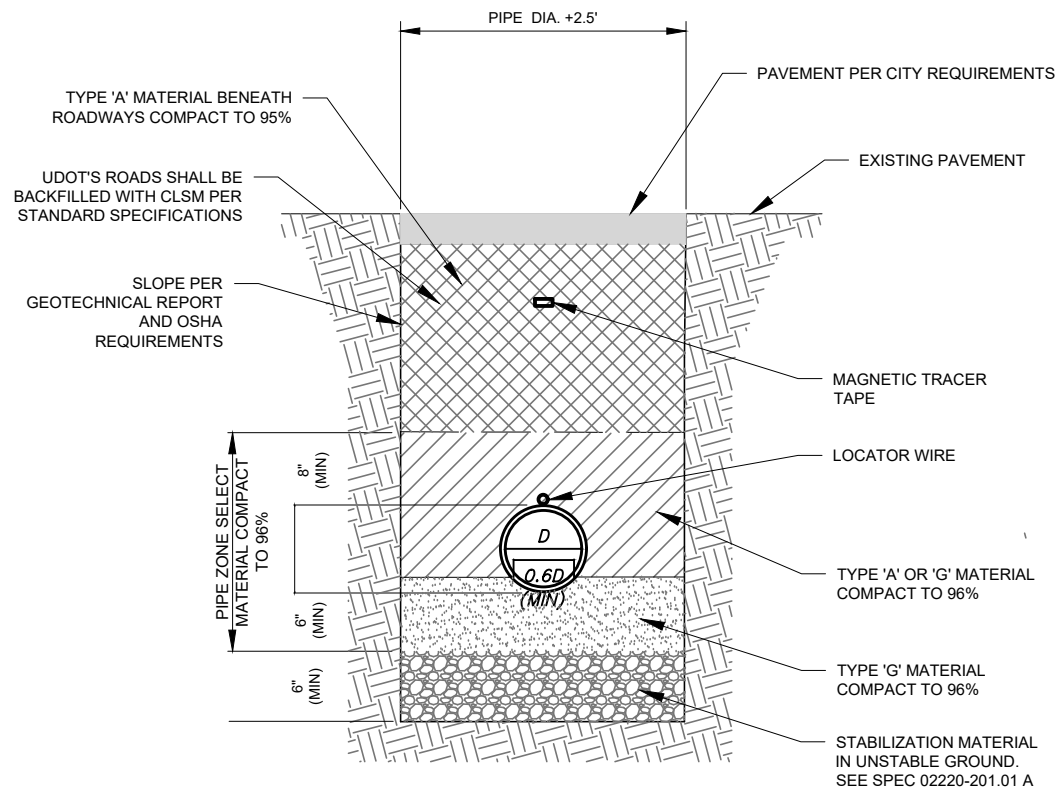
LINE IS 1 INCH
AT 11X17 SIZE SHEET

DESIGN: JOHN KAHL
DRAFTER: TODD PETERSON
PROJ. MGR: JOHN KAHL
DATE: 12/6/24

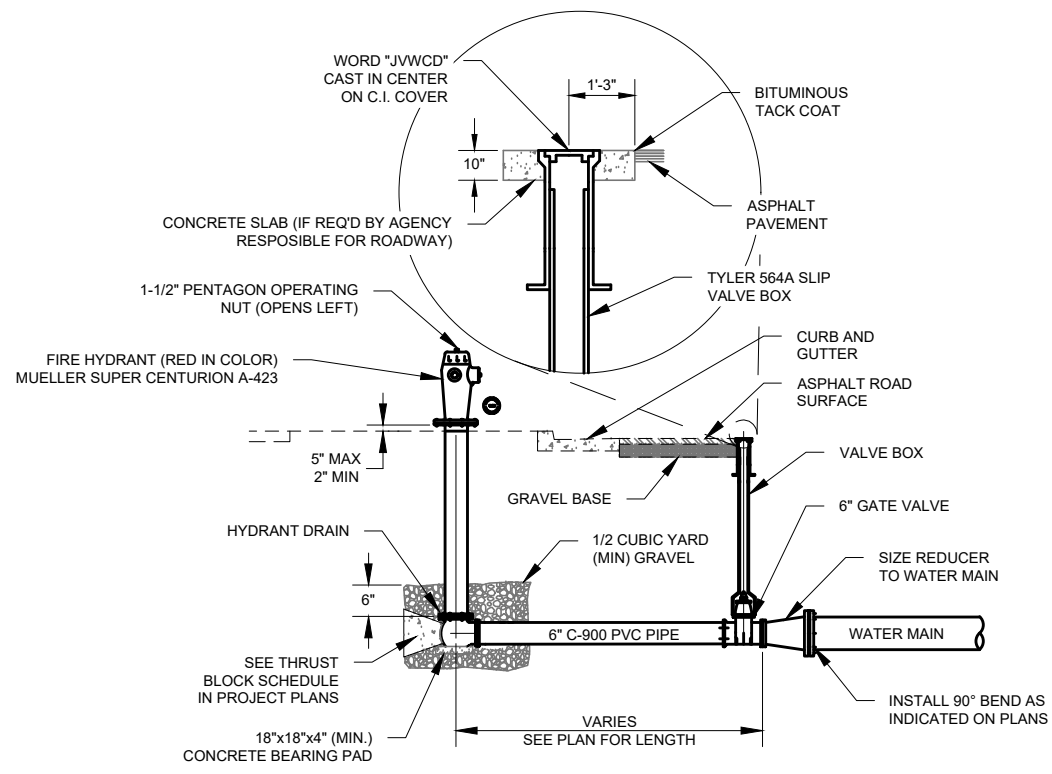
JORDAN VALLEY WATER CONSERVANCY DISTRICT
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 566-4300

2025 PIPELINE REPLACEMENT
PIPE DETAILS - 3

PROJECT NUMBER 4365
DRAWING NUMBER D-3
SHEET NUMBER 20 OF 21



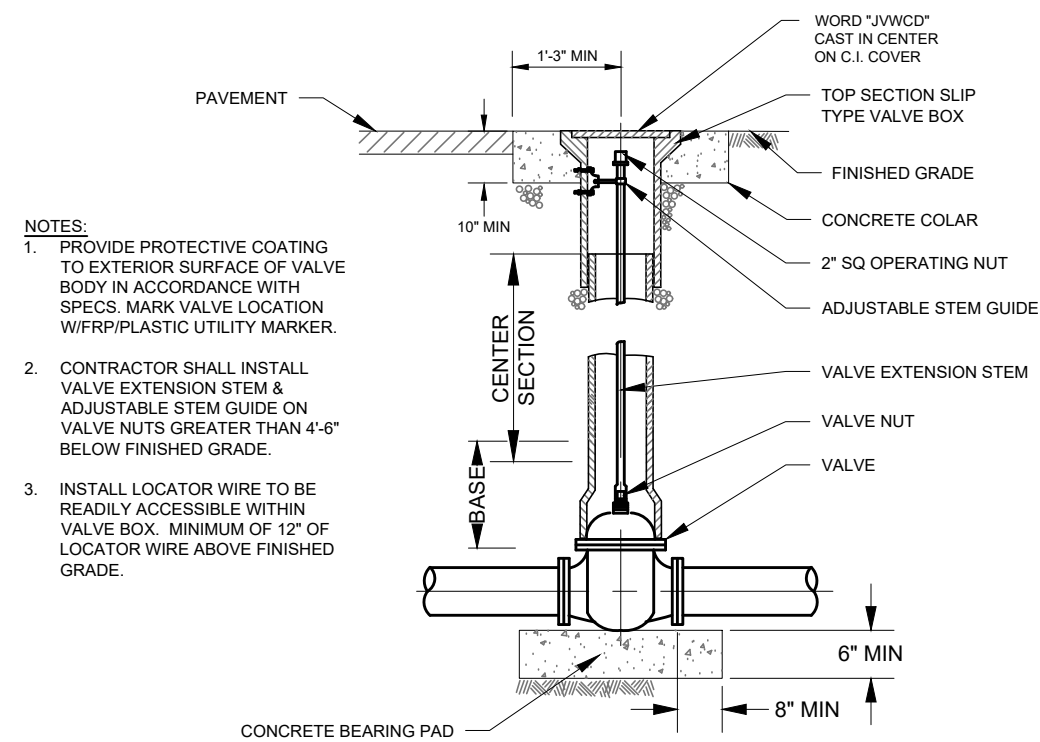
D PIPE TRENCH SECTION
SCALE: NTS



E FIRE HYDRANT DETAIL - END OF LINE
SCALE: NTS

NOTES:

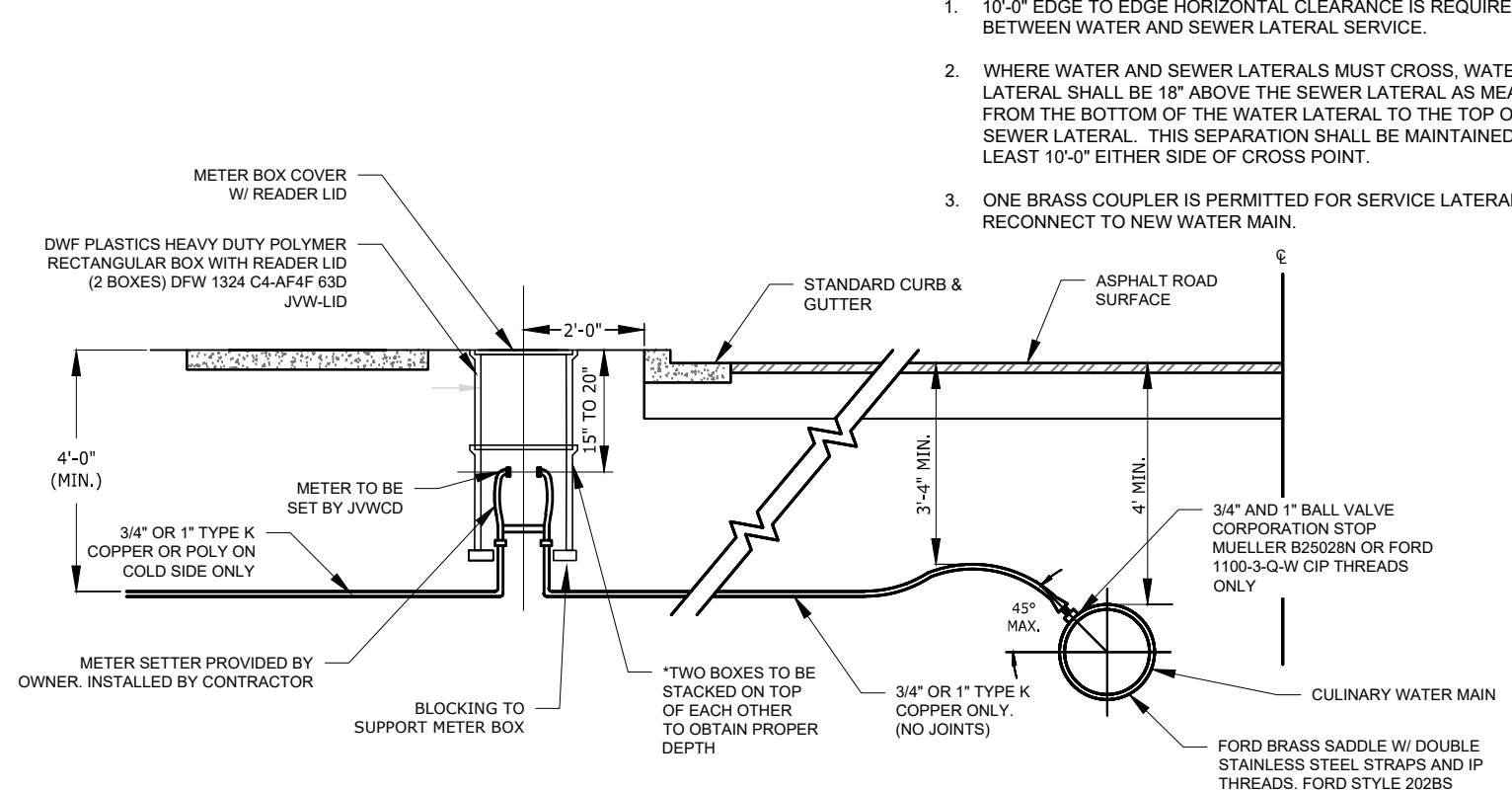
1. IF FIRE HYDRANT IS FURTHER THAN 20' AWAY FROM THE WATER MAIN, A SECOND GATE VALVE SHALL BE FLANGED TO FOOT OF THE FIRE HYDRANT.
2. LOCATING WIRE IS TO BE BROUGHT UP TO THE BASE OF FIRE HYDRANT, WITH OF MINIMUM 24" OF WIRE ABOVE GRADE. DO NOT BRING LOCATING WIRE UP THE VALVE BOX.
3. RESTORE LANDSCAPE TO MATCH EXISTING.



NOTES:

1. PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS. MARK VALVE LOCATION W/FRP/PLASTIC UTILITY MARKER.
2. CONTRACTOR SHALL INSTALL VALVE EXTENSION STEM & ADJUSTABLE STEM GUIDE ON VALVE NUTS GREATER THAN 4'-6" BELOW FINISHED GRADE.
3. INSTALL LOCATOR WIRE TO BE READILY ACCESSIBLE WITHIN VALVE BOX. MINIMUM OF 12" OF LOCATOR WIRE ABOVE FINISHED GRADE.

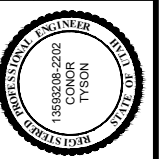
F TYPICAL VALVE BOX
SCALE: NTS



NOTES:

1. 10'-0" EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER LATERAL SERVICE.
2. WHERE WATER AND SEWER LATERALS MUST CROSS, WATER LATERAL SHALL BE 18" ABOVE THE SEWER LATERAL AS MEASURED FROM THE BOTTOM OF THE WATER LATERAL TO THE TOP OF THE SEWER LATERAL. THIS SEPARATION SHALL BE MAINTAINED FOR AT LEAST 10'-0" EITHER SIDE OF CROSS POINT.
3. ONE BRASS COUPLER IS PERMITTED FOR SERVICE LATERAL RECONNECT TO NEW WATER MAIN.

G TYPICAL WATER SERVICE LINE DETAIL
SCALE: NTS



DESIGN: JOHN KAHL
 DRAFTER: TODD PETERSON
 PROJ. MGR: JOHN KAHL
 DATE: 1/6/25



2025 PIPELINE REPLACEMENT
 PIPE DETAILS - 4

PROJECT NUMBER
4365

DRAWING NUMBER
D-4

SHEET NUMBER
21 OF 21