



Jordan Valley Water Conservancy District

8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

DISTRIBUTION PIPELINE REPLACEMENTS 2019


PROJECT NUMBER: 4110
February 2019



Know what's below.
Call before you dig.

ZONE REV.	DESCRIPTION	BY	DATE	APP.

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19


Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
COVER SHEET

PROJECT NUMBER	4110
DRAWING NUMBER	G-1
SHEET NUMBER	1 OF 41

GENERAL NOTES:

- 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 any utility damaged as a result of the contractor's activities.
- 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.
- Contractor shall be responsible for contacting Blue Stakes 48 hours prior to excavating.
- 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.
- Contractor shall repair or replace all disturbed curb, gutter, sidewalk, road striping, and asphalt to appropriate city standards and specifications.
- 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.
- Connect existing copper residential water lines into the new water main.
- All water line crossings of sanitary sewer shall have a minimum edge to edge spacing of 18" (vertical).
- All water lines shall cross sanitary sewer lines at a 90° angle whenever possible.
- All water lines shall maintain a minimum of 10'-0" edge to edge spacing from sanitary sewer lines unless otherwise specified.
- New PVC pipe line shall be installed 36" from the center of the pipe to the curb whenever possible unless otherwise specified.

- 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).
- Contractor shall replace all signal loops disturbed by pipeline installation activities.
- Contractor shall be responsible for flagging, caution signs, traffic control, and public safety on all adjacent streets and construction site per MUTCD.
- Contractor shall be responsible for public safety and OSHA safety standards.
- 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.
- Contractor shall attend all pre construction and construction conferences.
- All construction staking required by the Contractor shall be provided by the Contractor at the Contractor's expense.
- Contractor shall be responsible for care of all construction stakes.
- Contractor to space utilities to provide minimum distances as required by local, county, state, and individual utility codes.
- All materials and construction shall be in accordance with Jordan Valley Water Conservancy District standards and specifications.
- All water lines shall be a minimum of 4 feet below finished grade to top of pipe unless otherwise noted.
- 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.
- All service lateral locations are estimated.
- Contractor shall loop existing services or new water line as necessary when approved by the Engineer.
- Water line loops shall be performed in accordance with APWA Plan 542.
- Completed water lines shall be disinfected according to AWWA and Jordan Valley Water Conservancy District specifications.
- 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.
- 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.
 - 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.
 - Contractor shall be responsible for all erosion control.
 - Contractor shall install BMP around all storm drains.
 - 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.

- Existing water lines shall not be abandoned until new utilities are installed, tested, and accepted by the Jordan Valley Water Conservancy District.
- Contractor shall legally dispose of all excess excavated material/debris off site unless otherwise noted.
- Contractor shall supply redlines for preparation of record drawings.
- Engineer or Engineer's Representative shall field verify all hydrant and valve locations.
- Contractor shall be responsible to contact Salt Lake County Surveyor's office prior to disturbing any survey monument. Replace monuments at contractors expense.

- Owner does not guarantee water shutdowns. Contractor to devise schedule to avoid work stoppages in the event a shutdown does not go as planned.

LEGEND:

BURIED ELECTRIC	— — — — —	bel	— — — — —
BURIED FIBER OPTIC	— — — — —	bfo	— — — — —
BURIED TELEPHONE	— — — — —	btel	— — — — —
BURIED NATURAL GAS	— — — — —	g	— — — — —
STORM DRAIN	— — — — —	sd	— — — — —
SANITARY SEWER	— — — — —	ss	— — — — —
EXISTING WATER LINE	— — — — —	w	— — — — —
SALT LAKE CITY WATER	— SLCW — — —	SLCW	— — — — —
MURRAY CITY WATER	— MCW — — —	MCW	— — — — —
NEW WATER LINE	8 W		
WATER METER			
WATER VALVE			
FIRE HYDRANT			
SANITARY SEWER MANHOLE			
STORM DRAIN MANHOLE			

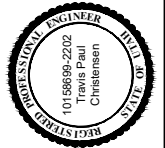


DESCRIPTION	BY	DATE	APP
ZONE	PREV.		
LINE IS 1 INCH AT 11X17 SIZE SHEET	DESIGN: KEVIN RUBOW	DRAFTER: TODD PETERSON	DATE: 2/5/19
<p>Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 566-4300</p>			
2019 PIPELINE REPLACEMENTS		NOTES	
PROJECT NUMBER 4110			
DRAWING NUMBER G-2			
SHEET NUMBER 2 OF 41			

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PP-5	200 East (3)
PP-6	200 East (4)
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PP-8	Ford Ave. (2)
PP-9	3350 South PP-1 (1)
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D-1	Pipe Details
D-2	Pipe Details
D-3	Pipe Details
D-4	Pipe Details
D-5	Pipe Details
D-6	Pipe Details
D-7	Pipe Details
D-8	Pipe Details



LINE IS 1/8" INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

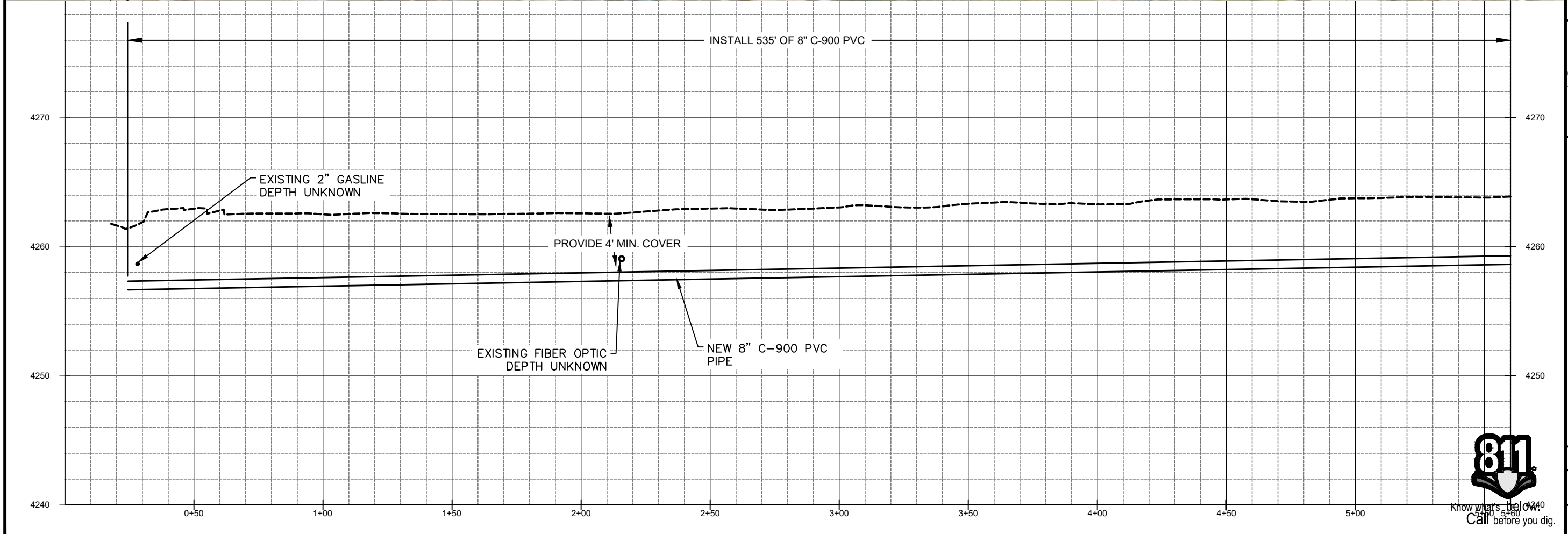
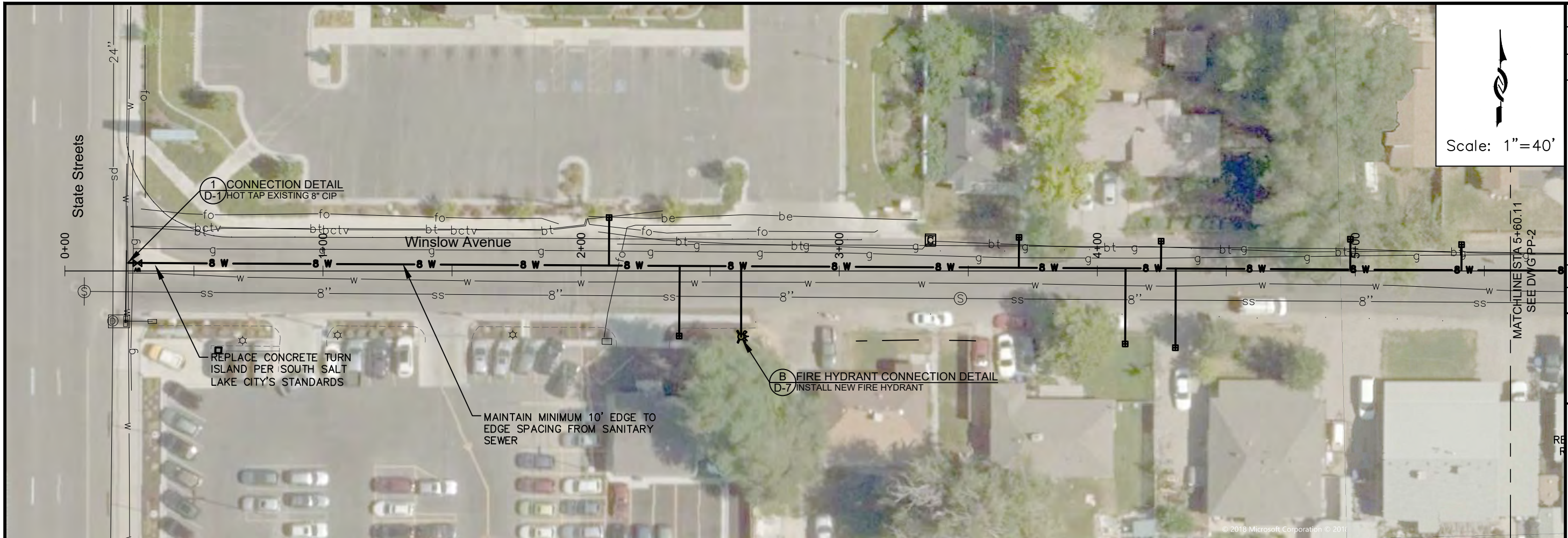


2019 PIPELINE REPLACEMENTS
SHEET LIST

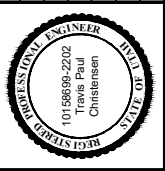
PROJECT NUMBER
4110

DRAWING NUMBER
G-3

SHEET NUMBER
3 OF **41**



ZONE REV.	DESCRIPTION	BY	DATE	APP.



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

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

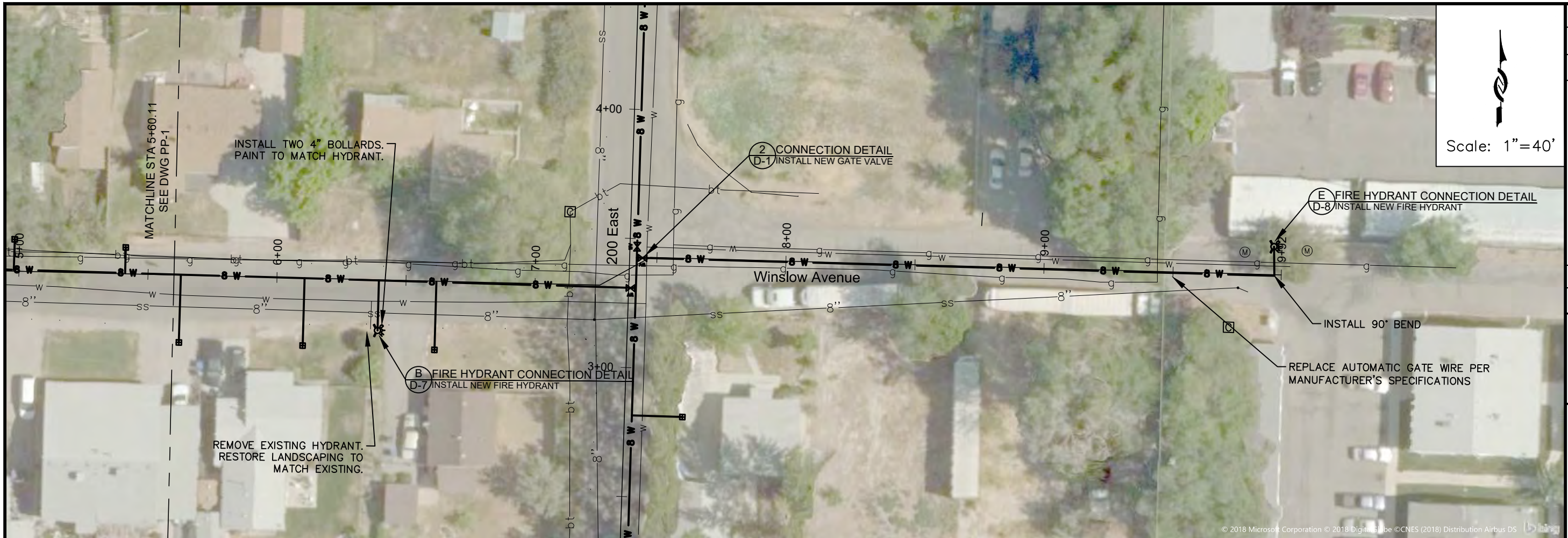
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Conservancy District
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WEST JORDAN, UTAH 84088
PHONE (801) 566-4300

2019 PIPELINE REPLACEMENTS
WINSLOW AVENUE (1)

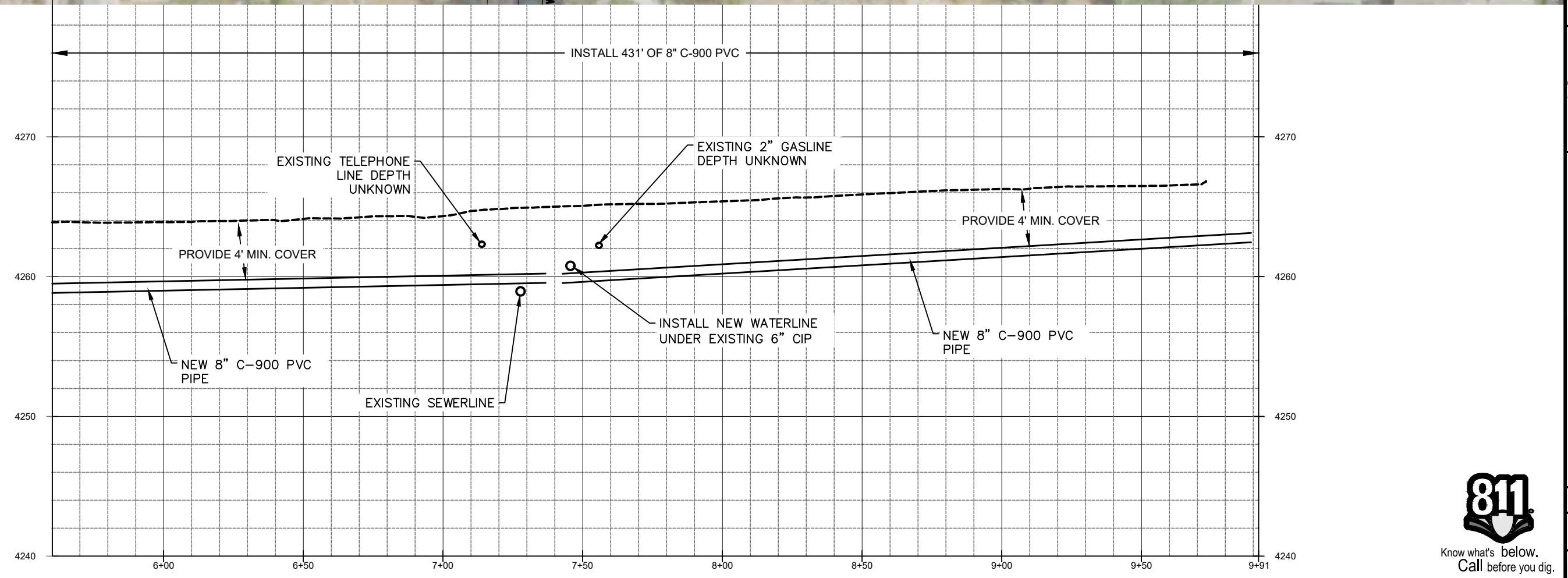
PROJECT NUMBER
4110

DRAWING NUMBER
PP-1

SHEET NUMBER
4 OF 41



Scale: 1"=40'



811
Know what's below.
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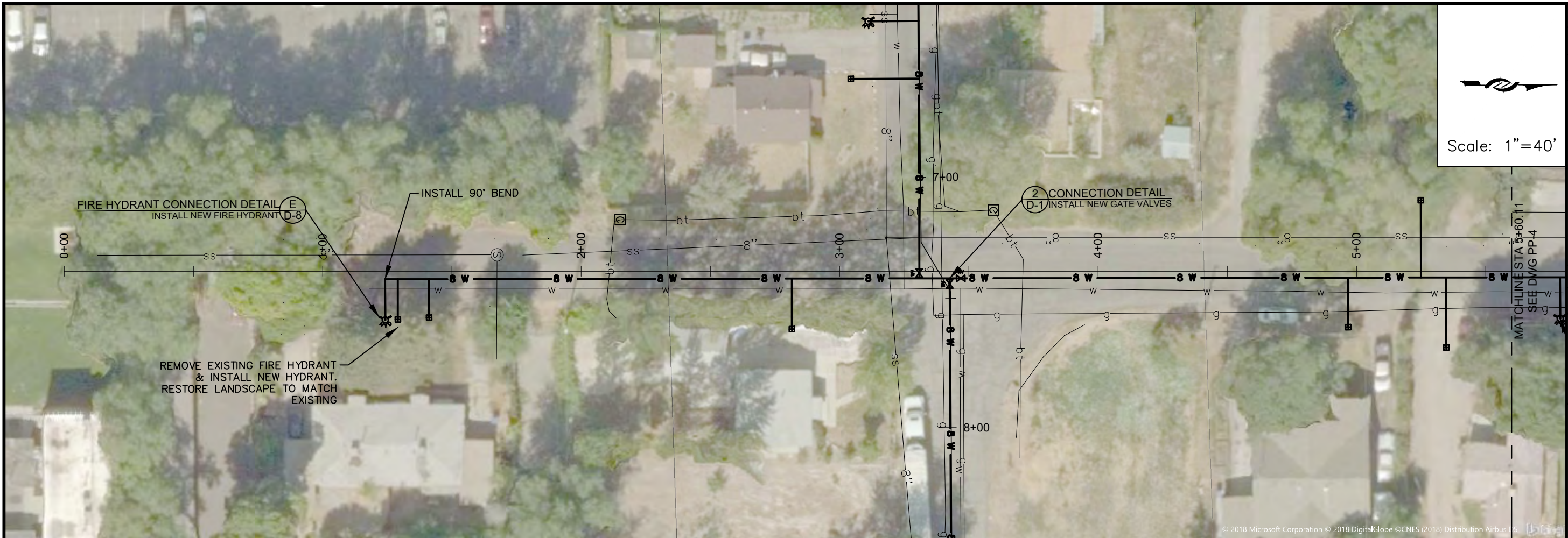
ZONE	REV	DESCRIPTION	BY	DATE	APP

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	2/5/19

Jordan Valley Water Conservancy District
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2019 PIPELINE REPLACEMENTS
 WINSLOW AVENUE (2)

PROJECT NUMBER	4110
DRAWING NUMBER	PP-2
SHEET NUMBER	5 OF 41



Scale: 1"=40'

REMOVE EXISTING FIRE HYDRANT & INSTALL NEW HYDRANT. RESTORE LANDSCAPE TO MATCH EXISTING

CONNECTION DETAIL D-1
INSTALL NEW GATE VALVES

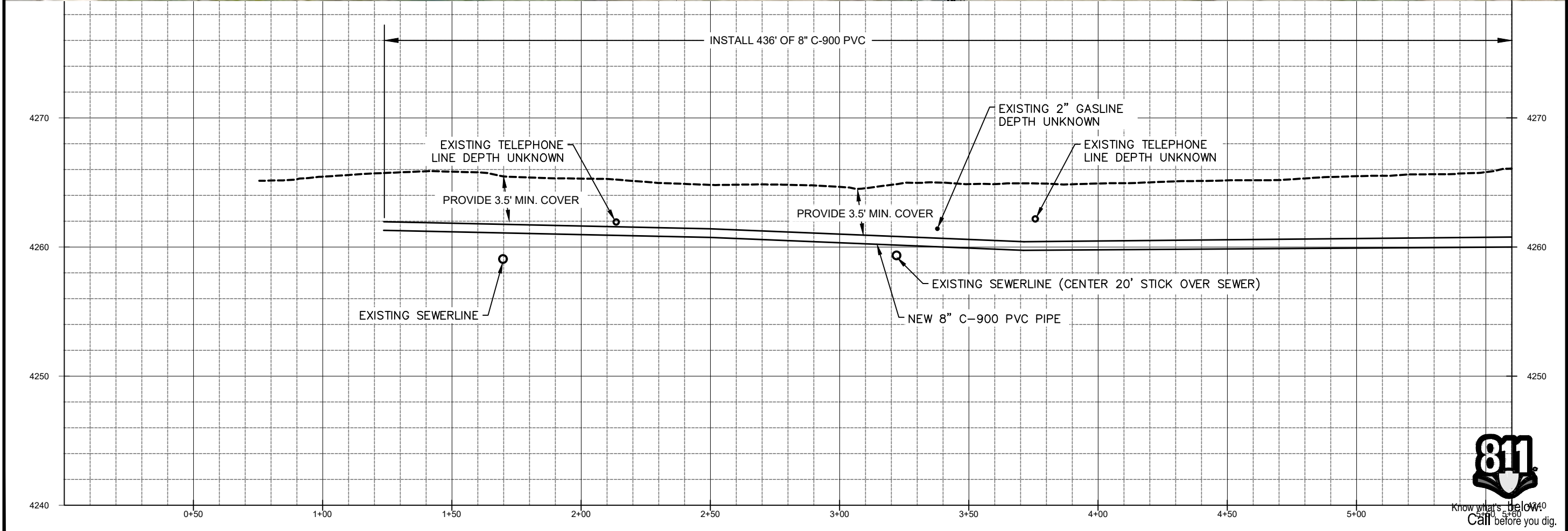
MATCHLINE STA 5+60.11
SEE DWG PP-4

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/5/19

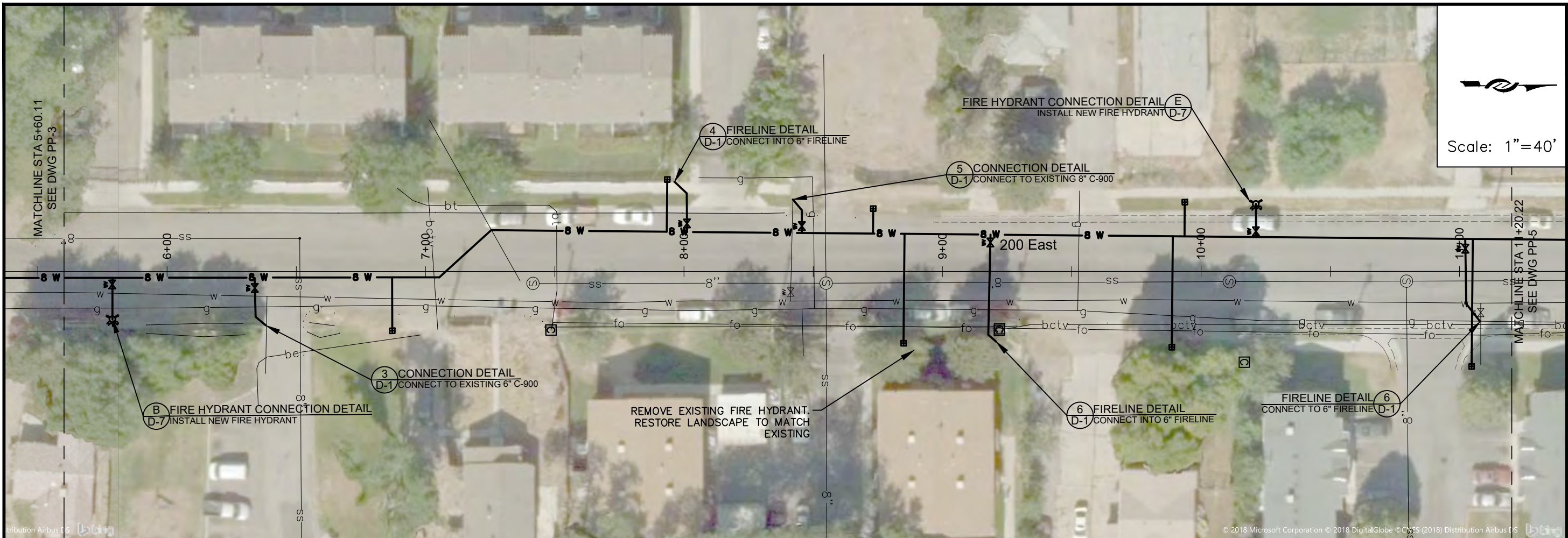
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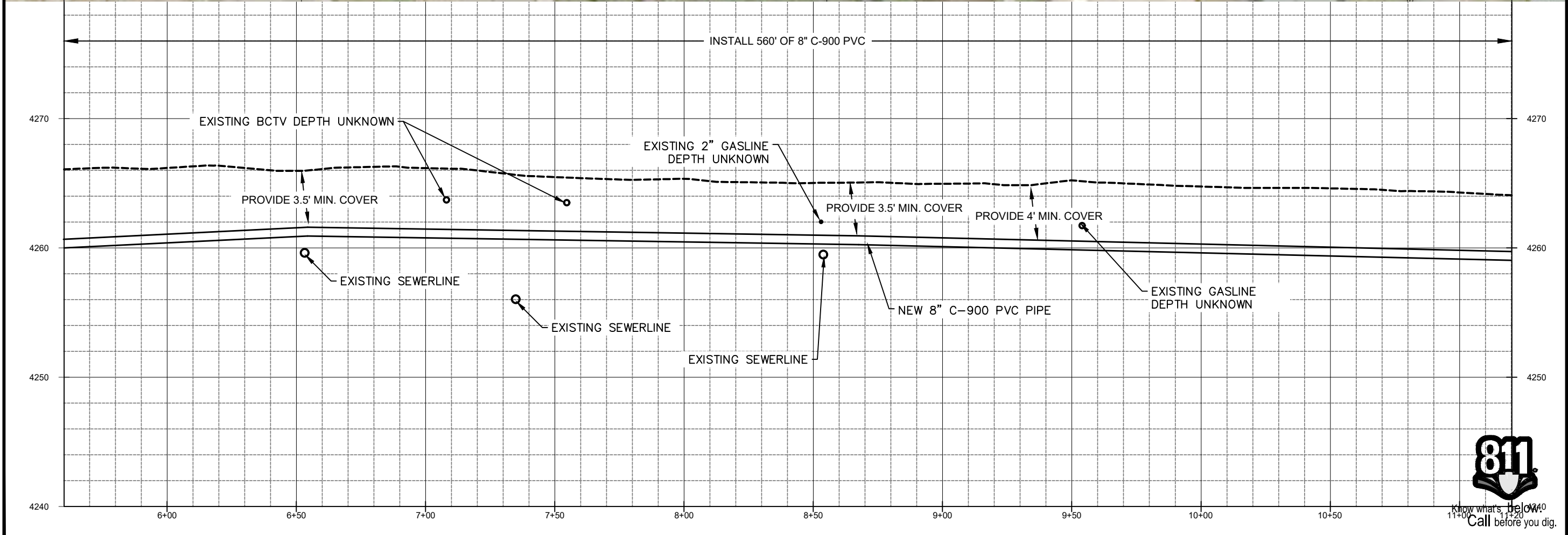
2019 PIPELINE REPLACEMENTS
 200 EAST (1)

PROJECT NUMBER
4110
 DRAWING NUMBER
PP-3
 SHEET NUMBER
6 OF 41





Scale: 1"=40'



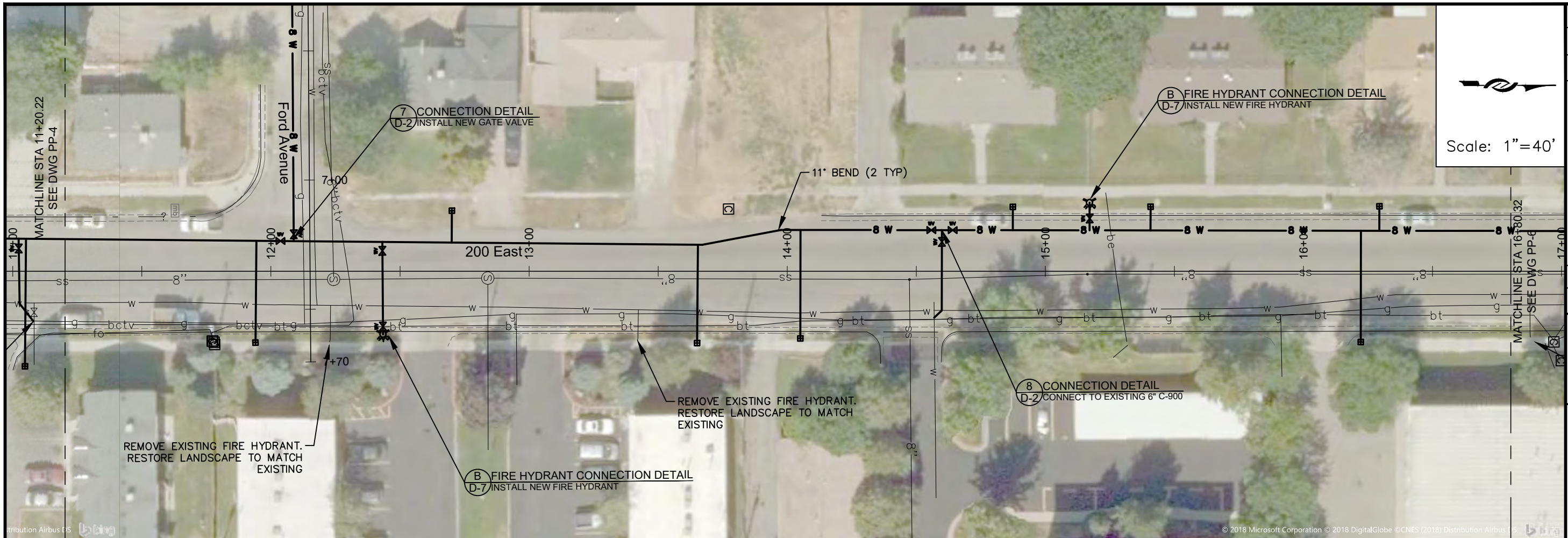
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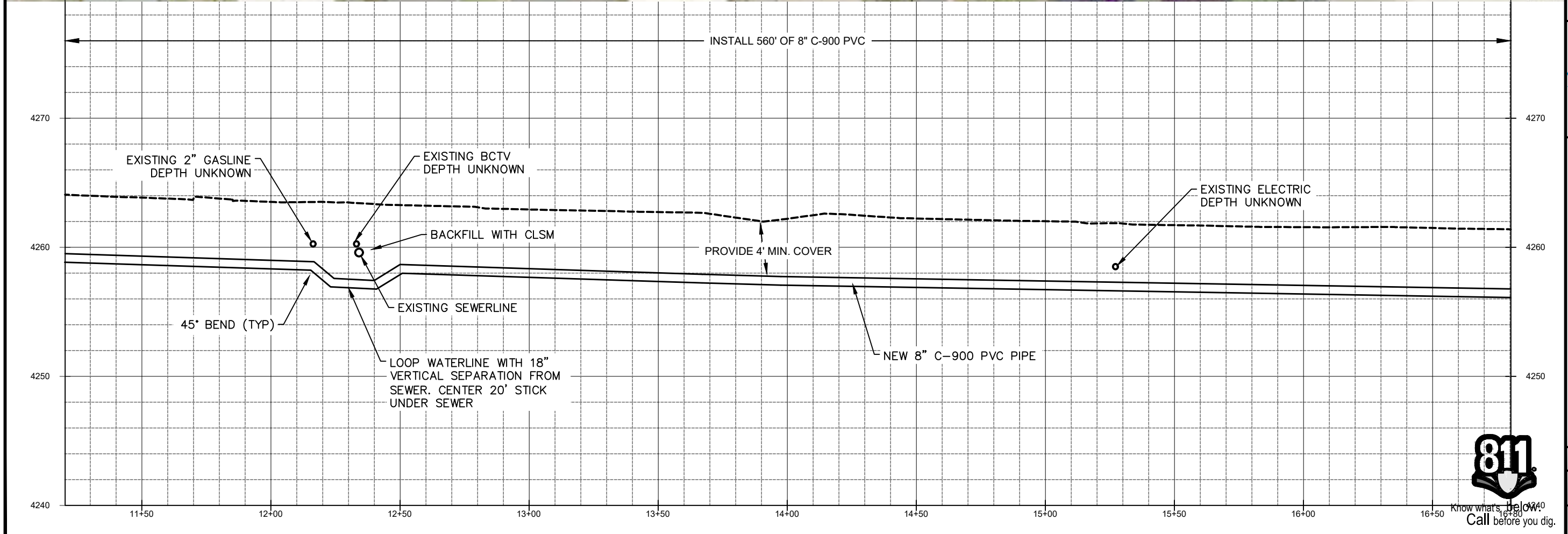
LINE IS 1/8" INCH AT 1/4" X 1/4" SIZE SHEET
 DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN REBOW
 DATE: 2/5/19

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 Conservancy District
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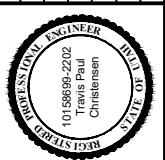
2019 PIPELINE REPLACEMENTS
200 EAST (2)
 PROJECT NUMBER: 4110
 DRAWING NUMBER: PP-4
 SHEET NUMBER: 7 OF 41



Scale: 1" = 40'



ZONE	REV	DESCRIPTION	BY	DATE	APP



LINE IS 1 INCH
AT SIXTY SIZE SHEET

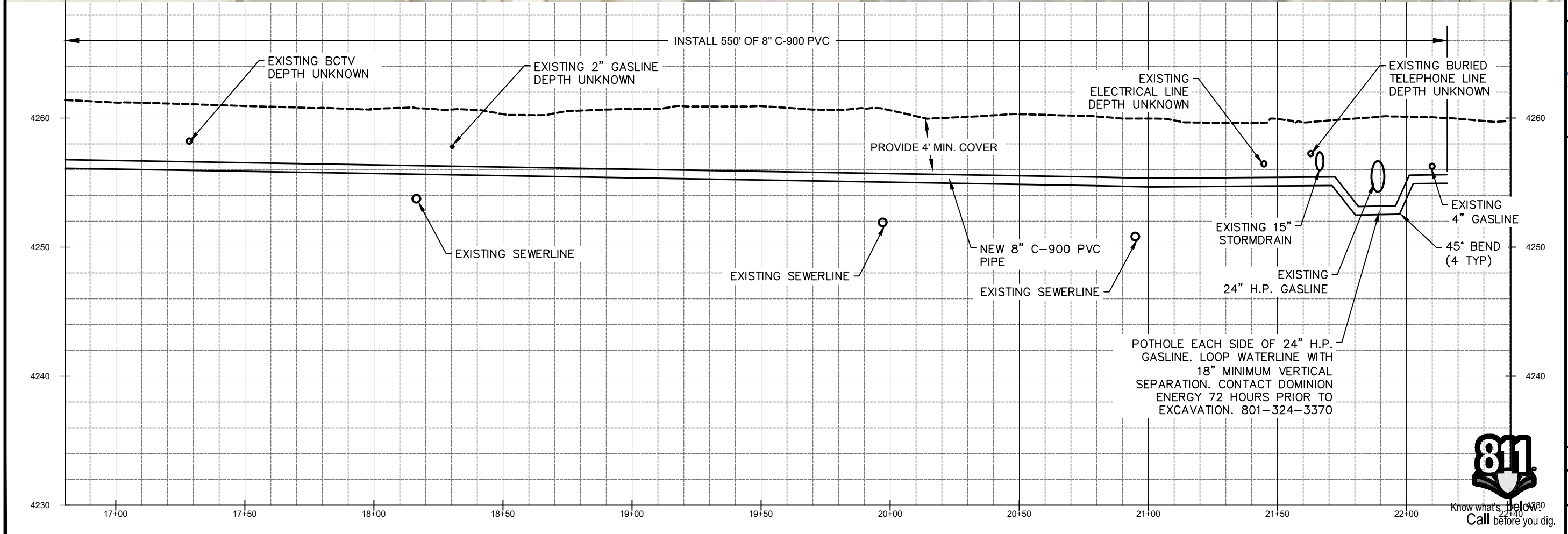
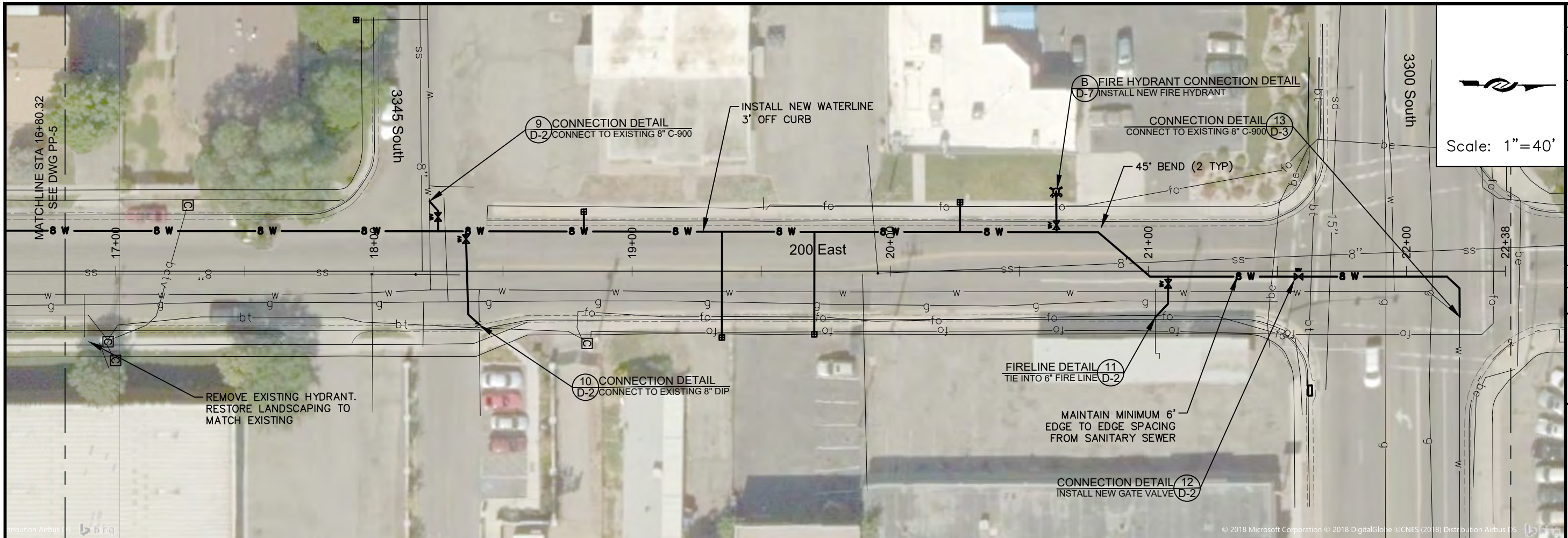
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

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Conservancy District
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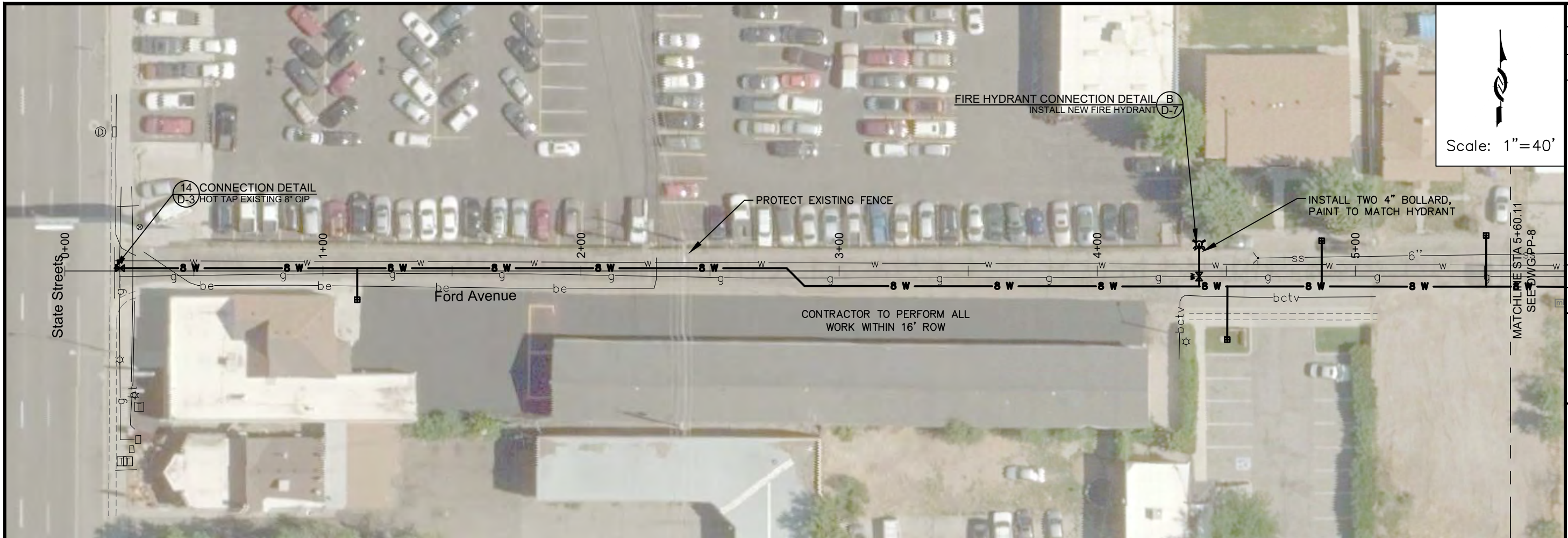
2019 PIPELINE REPLACEMENTS
200 EAST (3)

PROJECT NUMBER: 4110
DRAWING NUMBER: **PP-5**
SHEET NUMBER: 8 OF 41



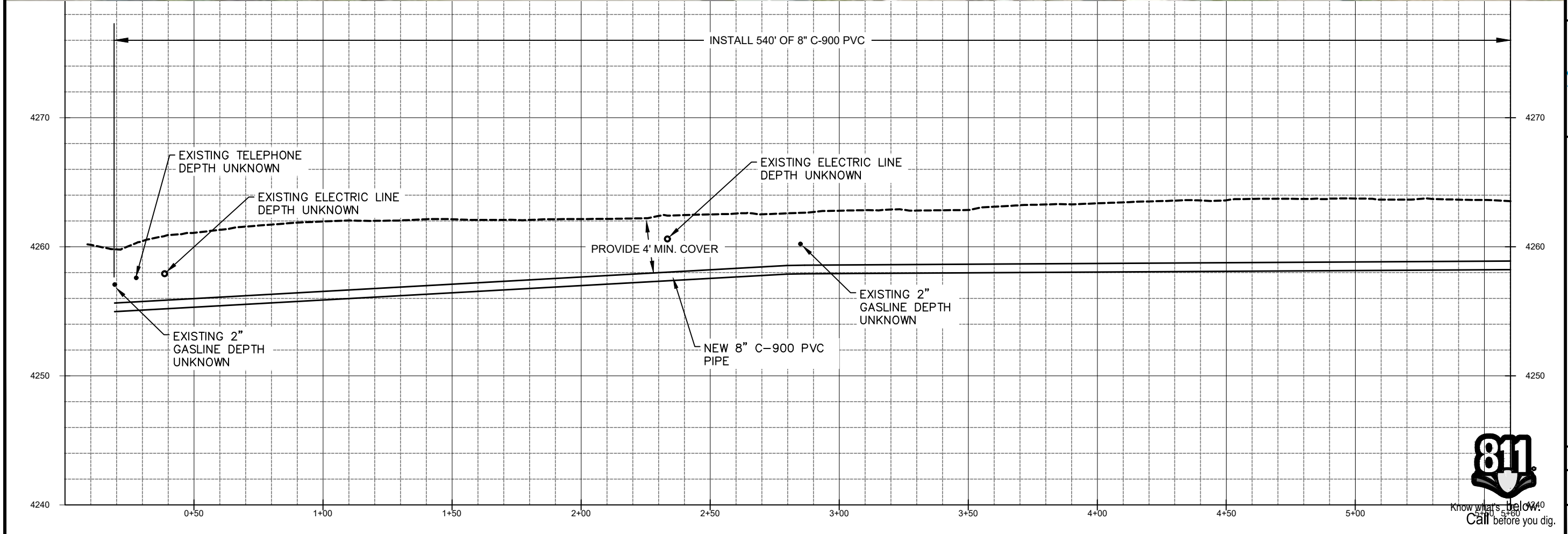


ZONE	REV	DESCRIPTION	BY	DATE	APP
DESIGN: KEVIN RUBOW DRAFTER: TODD PETERSON PROJ. MGR: KEVIN RUBOW DATE: 2/5/19					
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300					
2019 PIPELINE REPLACEMENTS 200 EAST (4)					
PROJECT NUMBER 4110					
DRAWING NUMBER PP-6					
SHEET NUMBER 9 OF 41					



Scale: 1"=40'

MATCHLINE STA 5+60.11
SEE DWG PP-8



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

LINE IS 1 INCH AT TYPICAL SIZE SHEET

DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/5/19

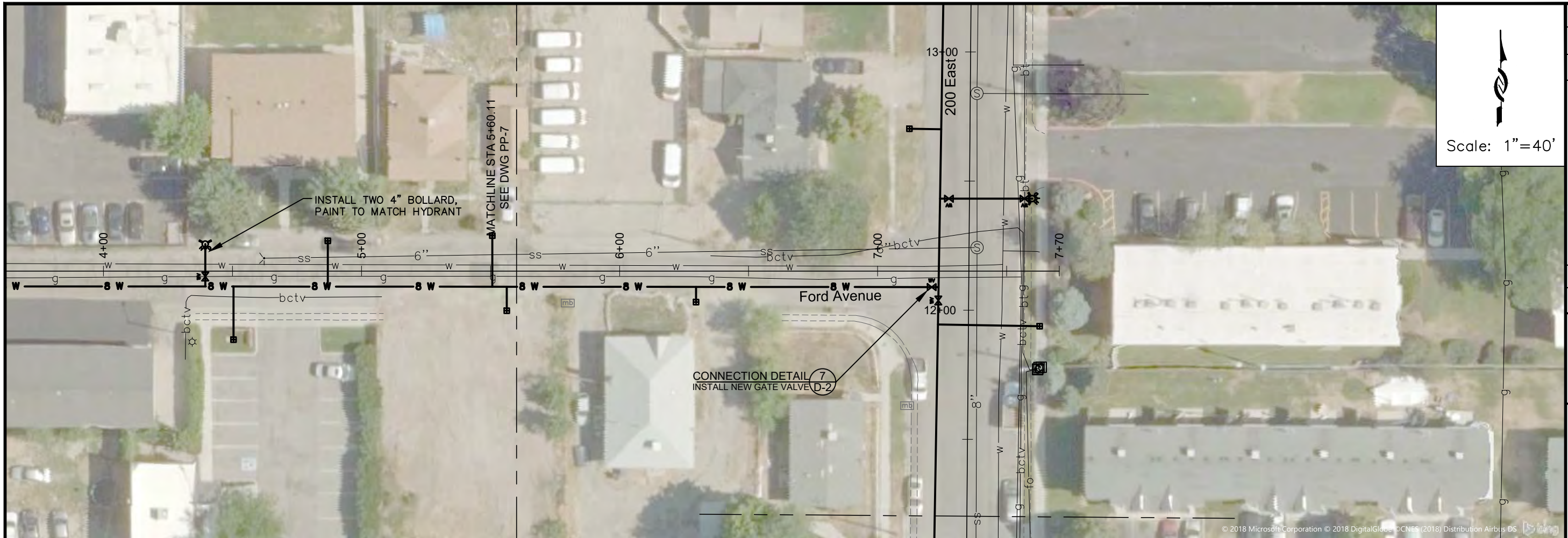
Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
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2019 PIPELINE REPLACEMENTS
FORD AVE. (1)

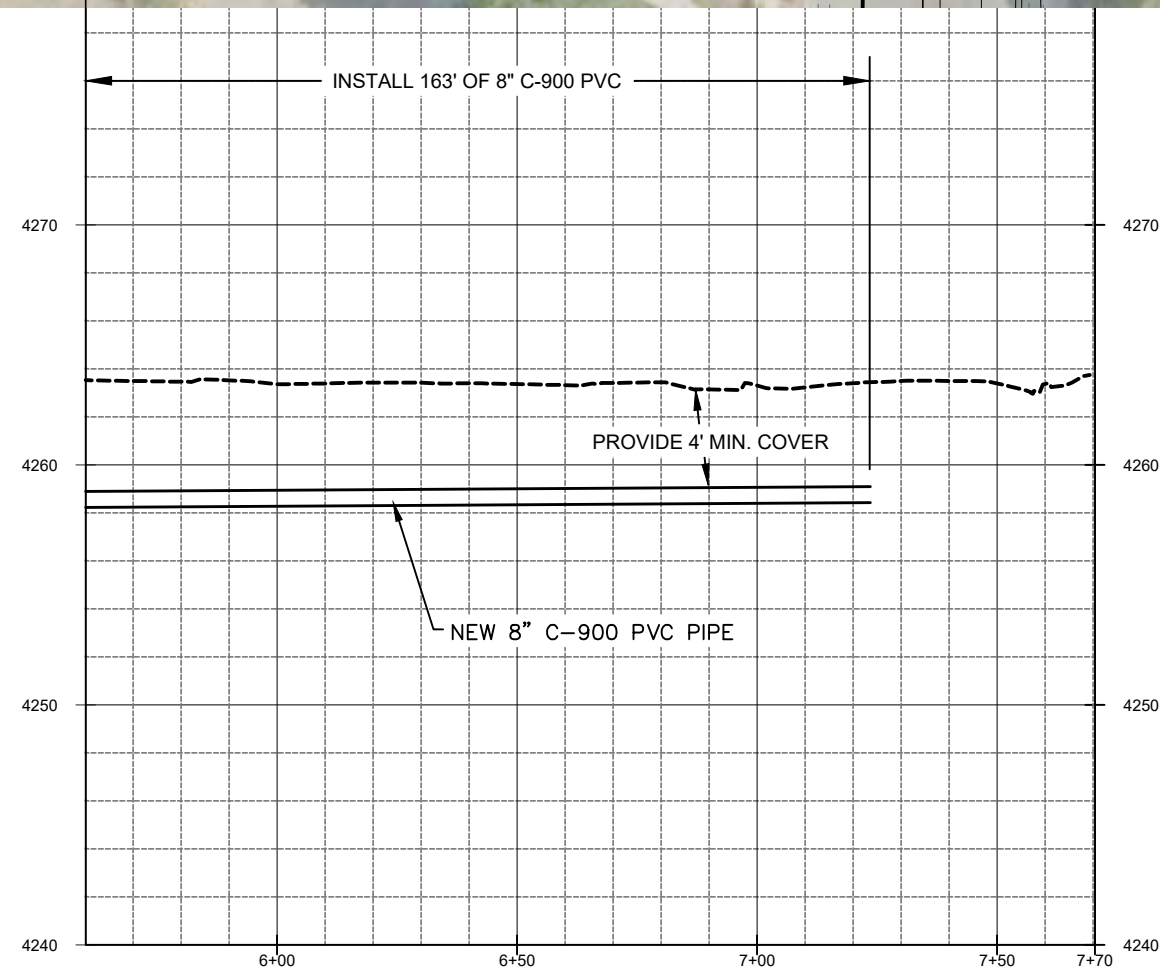
PROJECT NUMBER
4110

DRAWING NUMBER
PP-7

SHEET NUMBER
10 OF 41



Scale: 1"=40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19



2019 PIPELINE REPLACEMENTS
FORD AVE. (2)

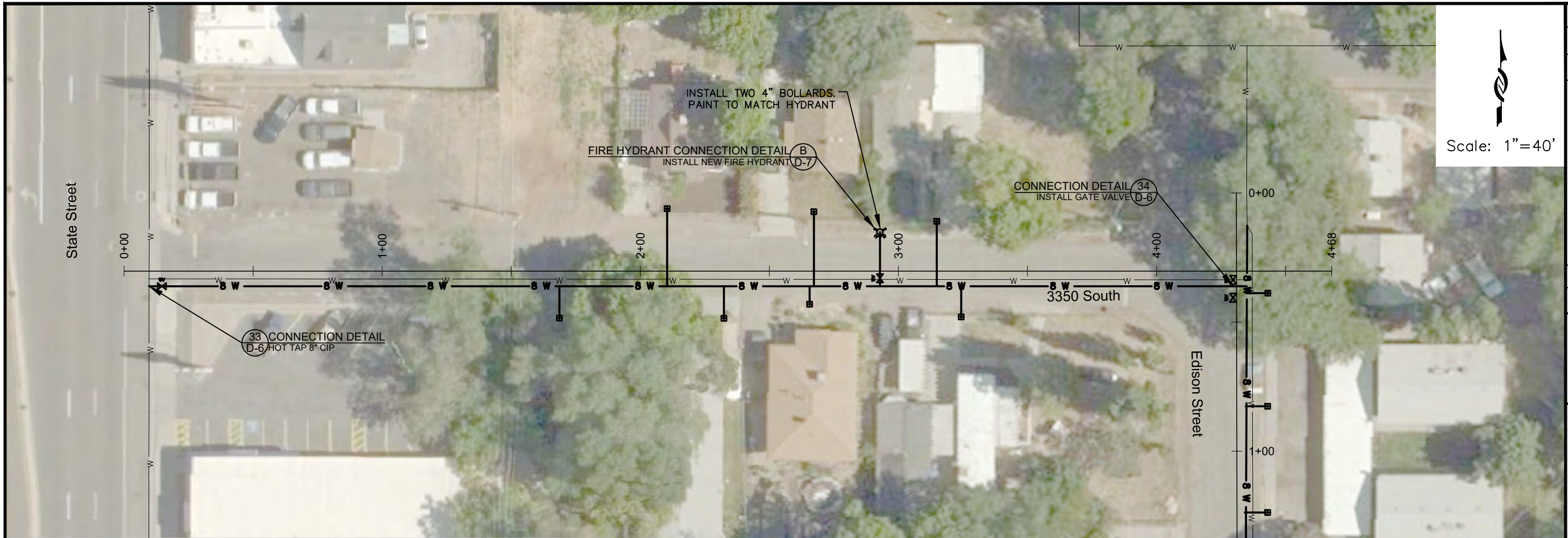
PROJECT NUMBER
4110

DRAWING NUMBER
PP-8

SHEET NUMBER
11 OF 41



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

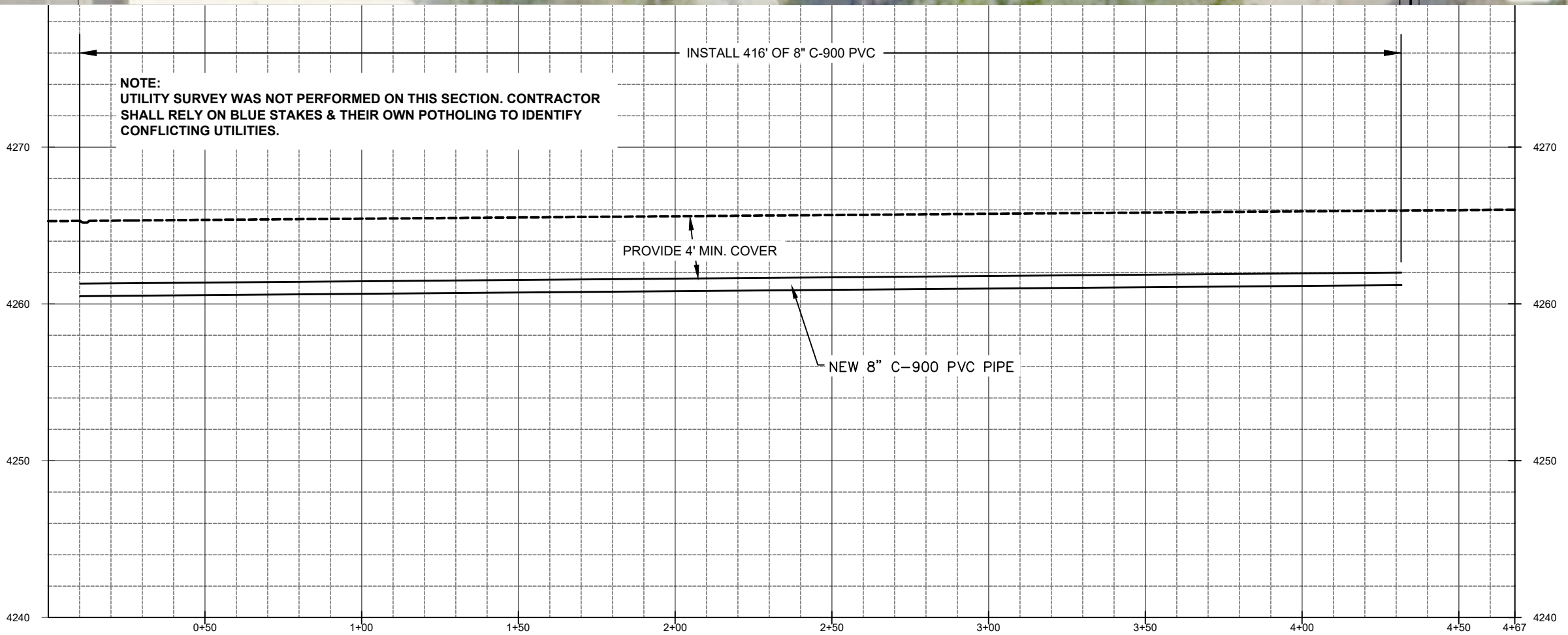


NOTE:
UTILITY SURVEY WAS NOT PERFORMED ON THIS SECTION. CONTRACTOR SHALL RELY ON BLUE STAKES & THEIR OWN POTHOLING TO IDENTIFY CONFLICTING UTILITIES.

INSTALL 416' OF 8" C-900 PVC

PROVIDE 4' MIN. COVER

NEW 8" C-900 PVC PIPE



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	2/5/19

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Conservancy District
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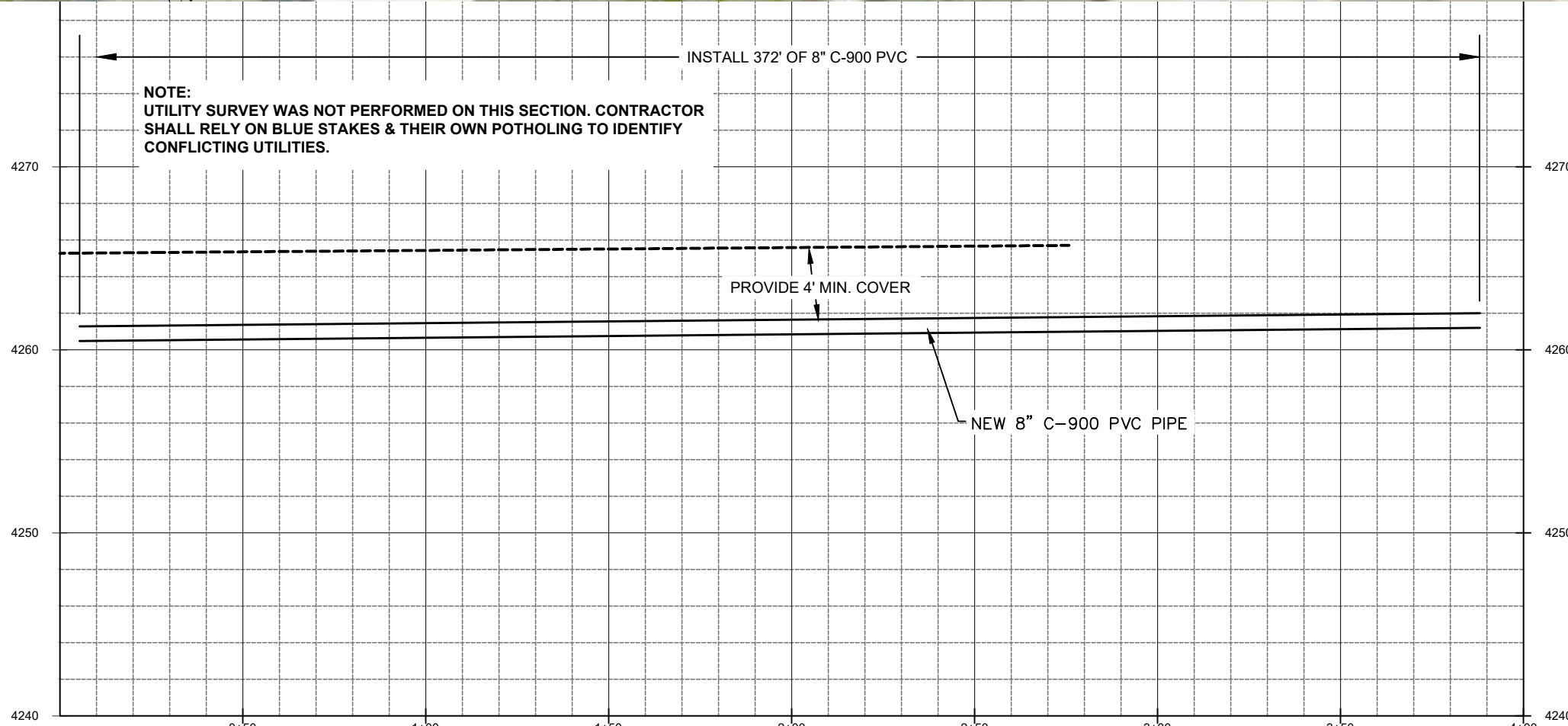
2019 PIPELINE REPLACEMENTS
3350 SOUTH (1)

PROJECT NUMBER	4110
DRAWING NUMBER	PP-9
SHEET NUMBER	12 OF 41





Scale: 1"=40'



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ZONE	REV	DESCRIPTION	BY	DATE	APP

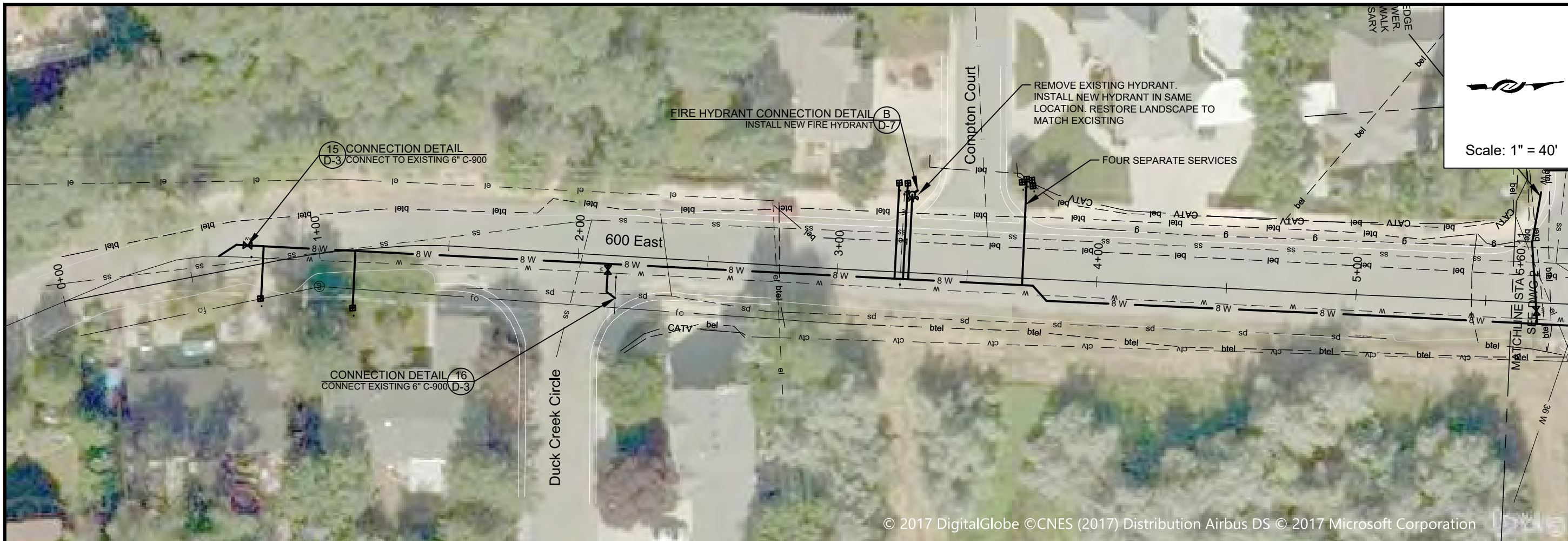


LINE IS 1/8" INCH AT 11X17 SIZE SHEET
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

Jordan Valley Water
Conservancy District
8215 SOUTH 1300 WEST
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2019 PIPELINE REPLACEMENTS
EDISON STREET (1)

PROJECT NUMBER 4110
DRAWING NUMBER PP-10
SHEET NUMBER 13 OF 41



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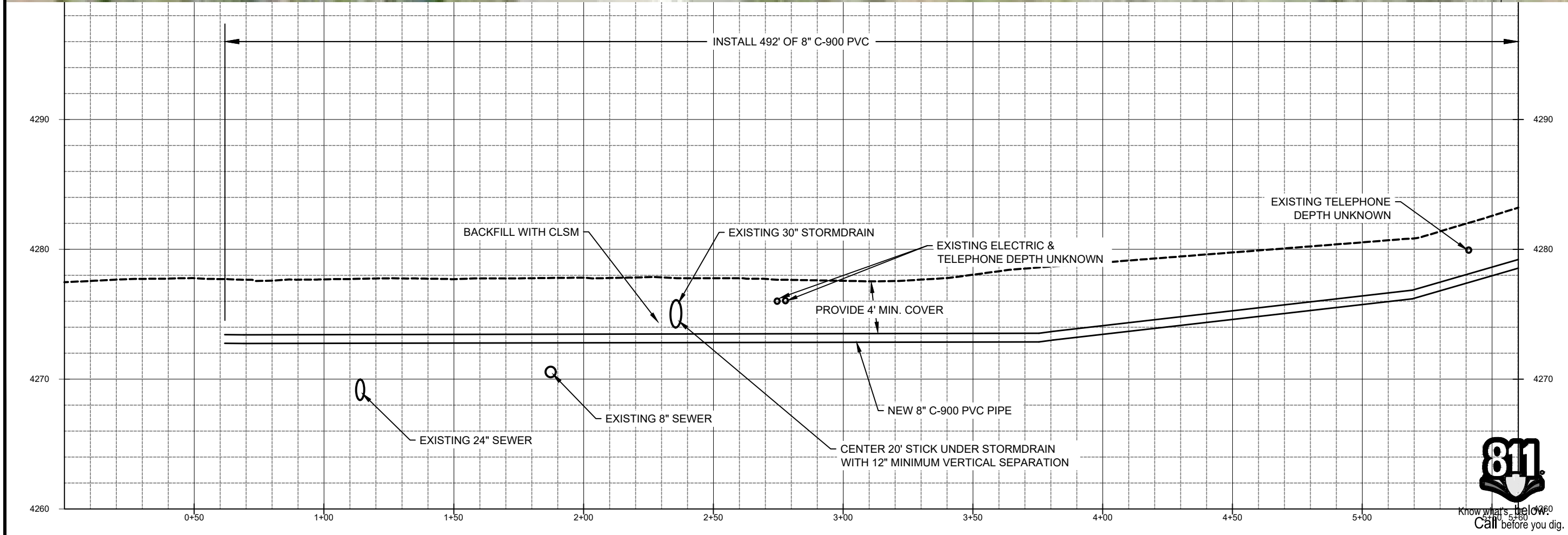
ZONE	REV	DESCRIPTION	BY	DATE	APP

DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
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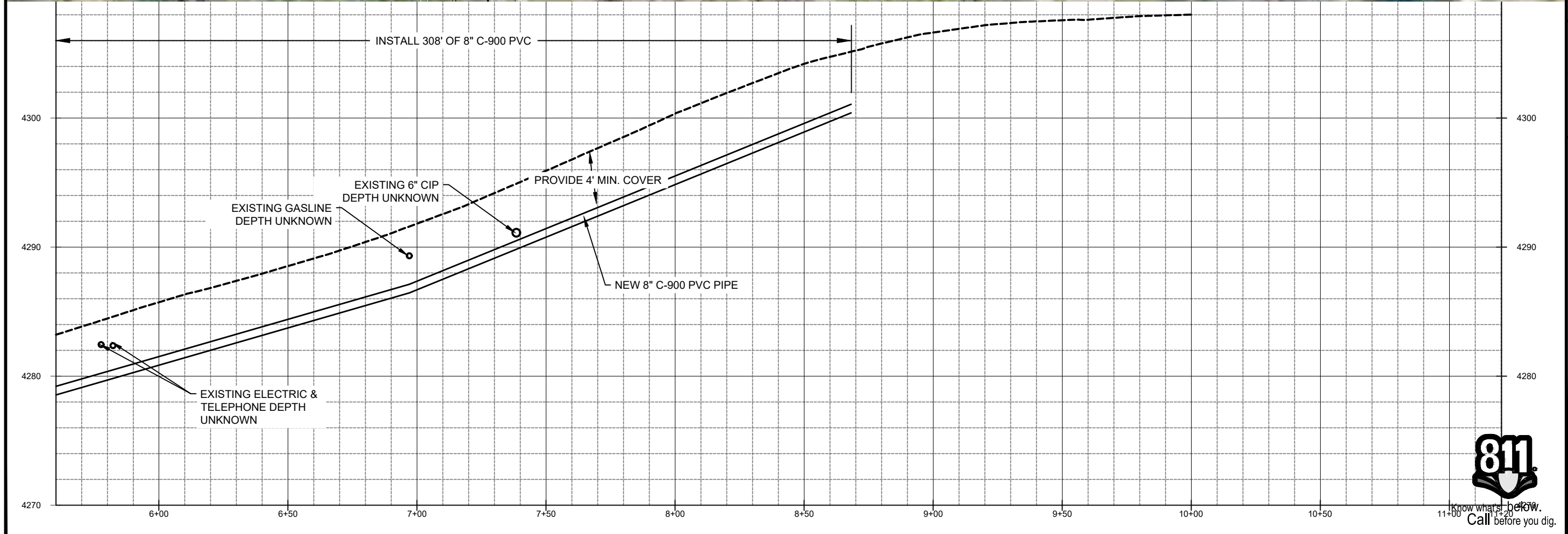
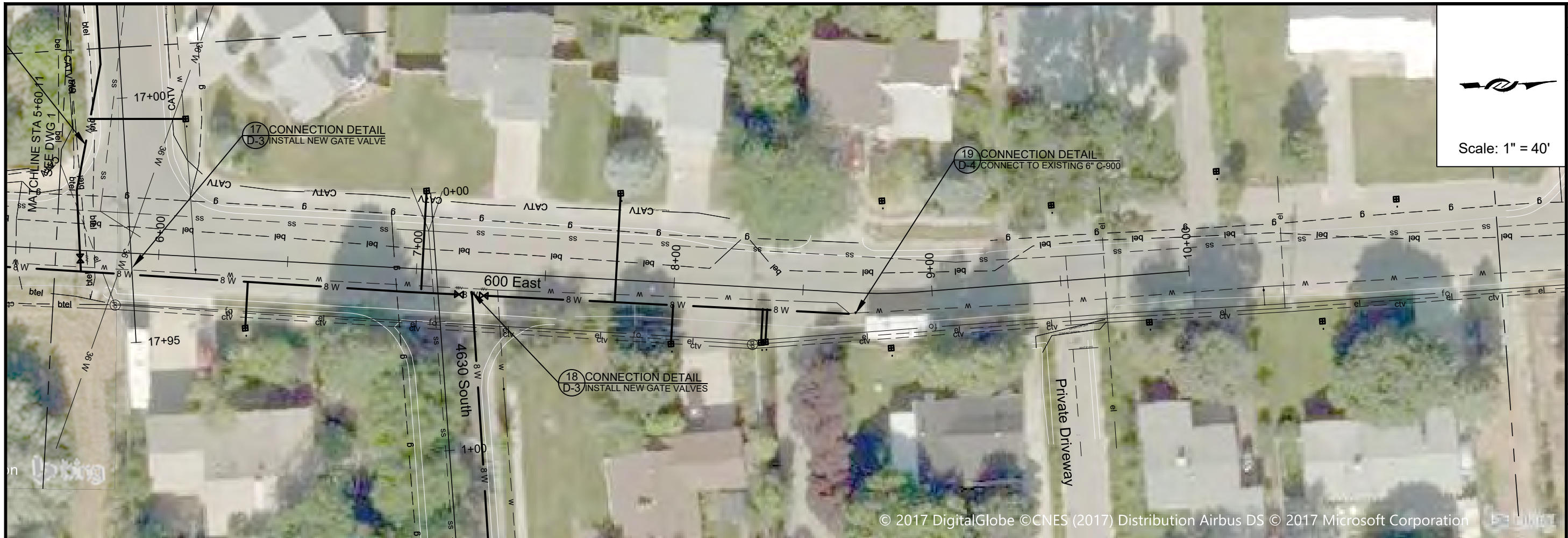
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 PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
600 EAST (1)

PROJECT NUMBER: 4110
 DRAWING NUMBER: PP-11
 SHEET NUMBER: 14 OF 41



I:\PIPELINE\DISTRIUTION SYSTEM\4110_2019 PIPELINE REPLACEMENTS\2_ENGINEERING\DWGS\4110_4057 BASE NEW LAYERED.DWG 118.99M



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/6/19

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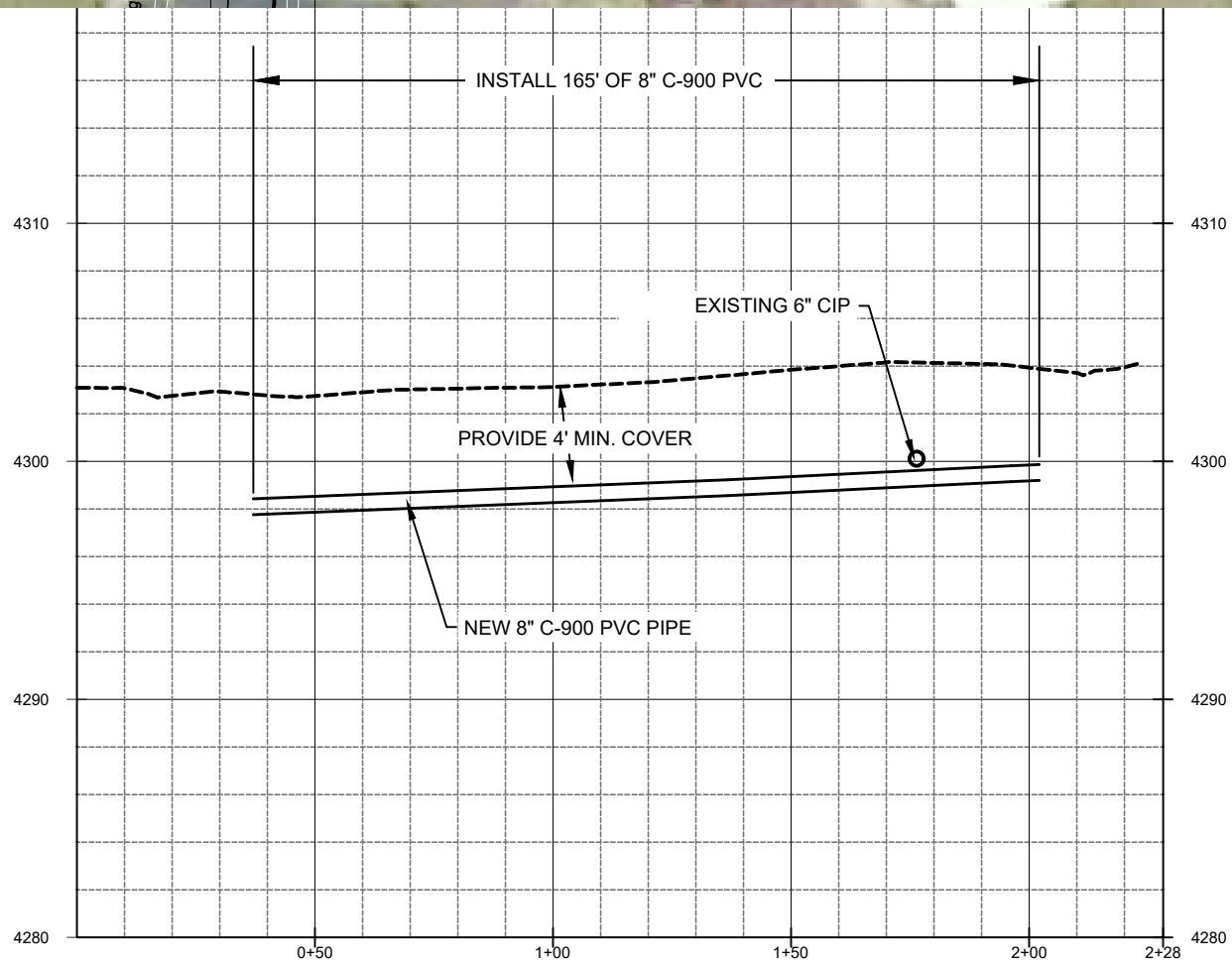
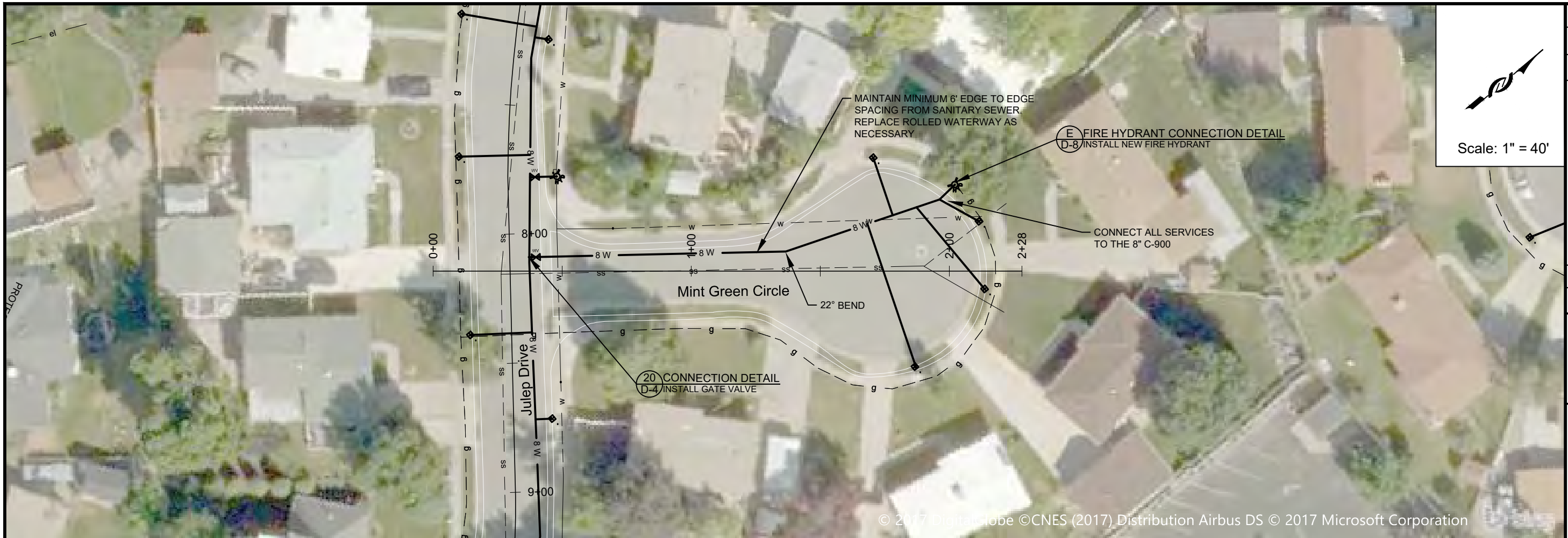
2019 PIPELINE REPLACEMENTS
600 EAST (2)

PROJECT NUMBER
4110

DRAWING NUMBER
PP-12

SHEET NUMBER
15 OF 41

118.99M



ZONE	REV	DESCRIPTION	BY	DATE	APP

LINE IS 1 INCH
AT SIXTY SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

REGISTERED PROFESSIONAL ENGINEER
10158699-2202
Trevor Paul
Christensen

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 566-4300

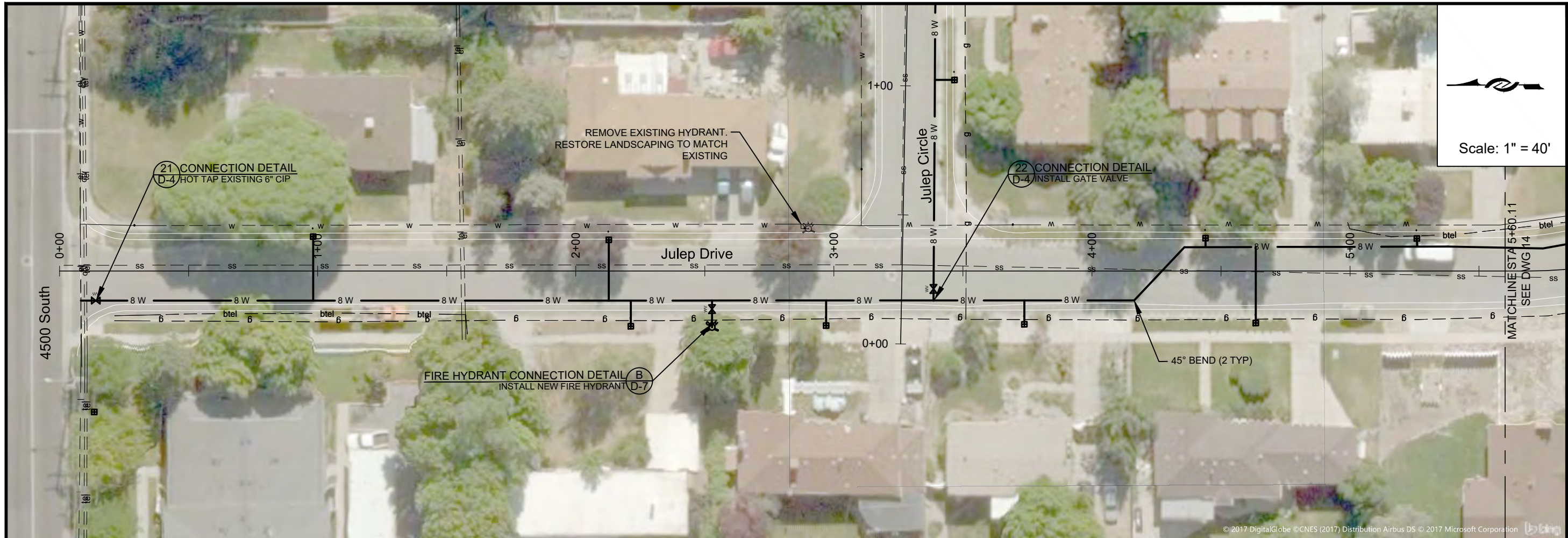
2019 PIPELINE REPLACEMENTS
MINT GREEN CIRCLE (1)

PROJECT NUMBER
4110

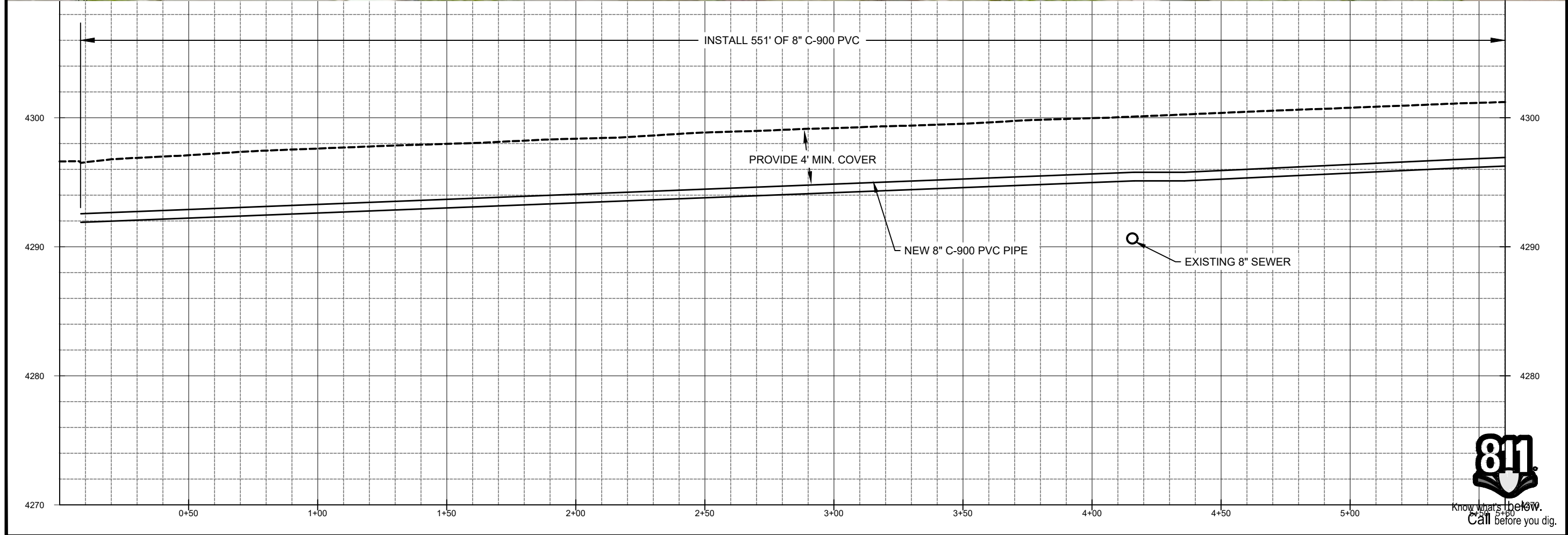
DRAWING NUMBER
PP-13

SHEET NUMBER
16 OF 41

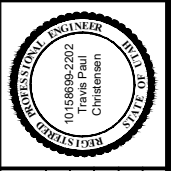




Scale: 1" = 40'



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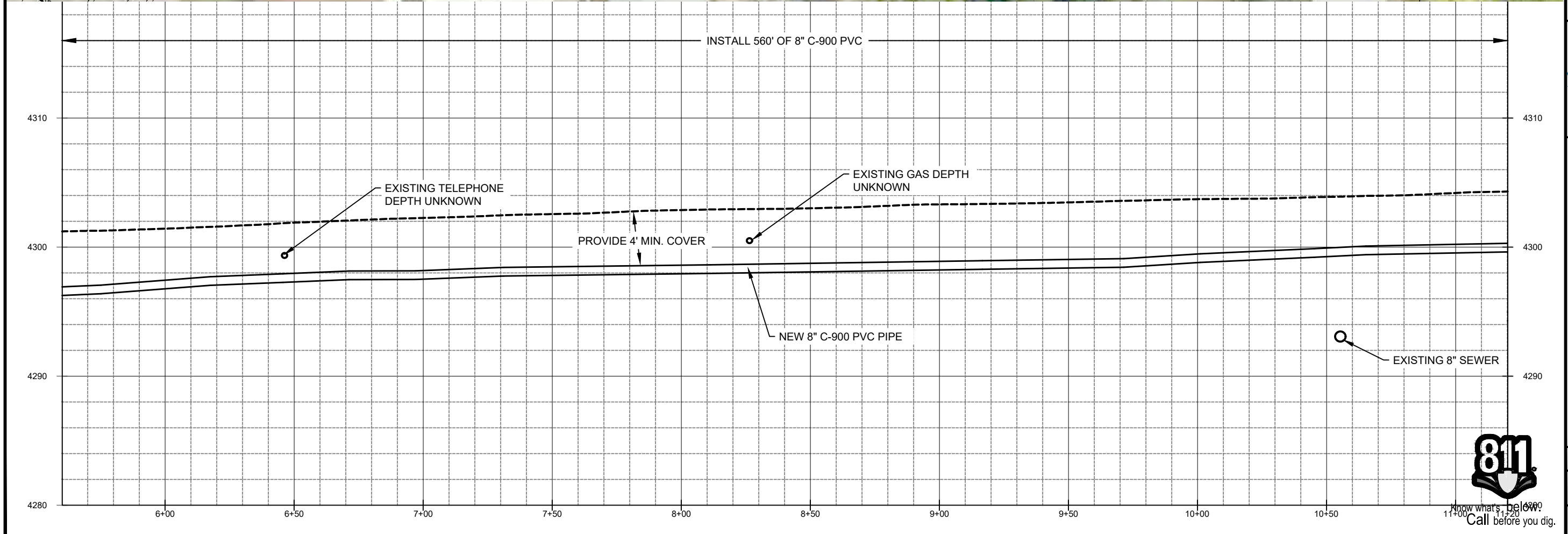
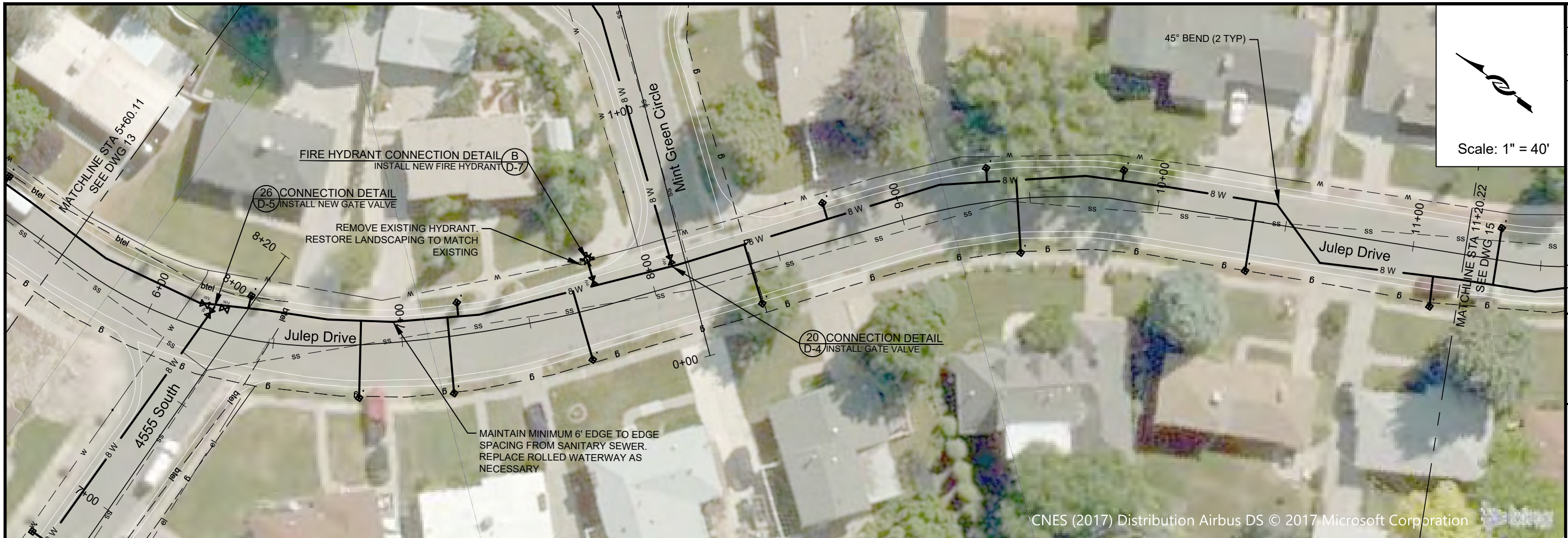
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2019 PIPELINE REPLACEMENTS
JULEP DRIVE (1)

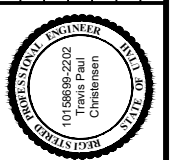
PROJECT NUMBER
4110

DRAWING NUMBER
PP-14

SHEET NUMBER
17 OF 41



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

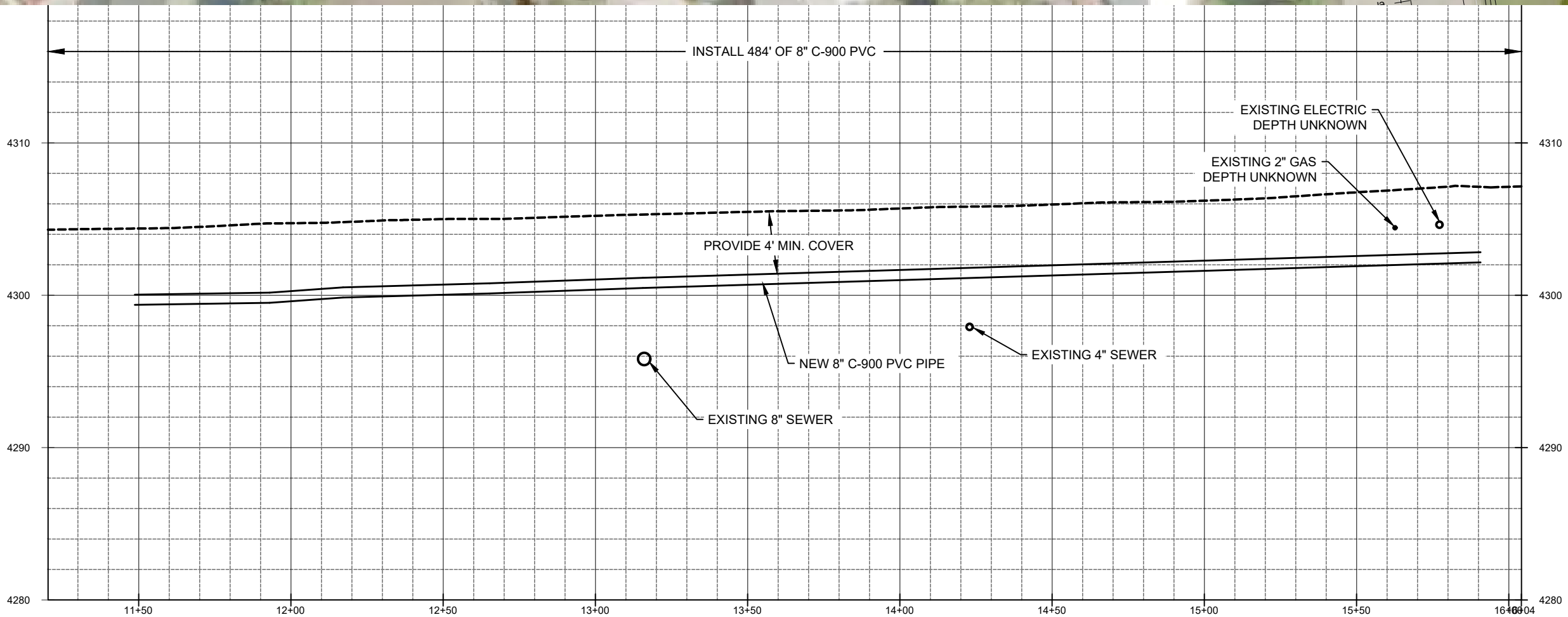
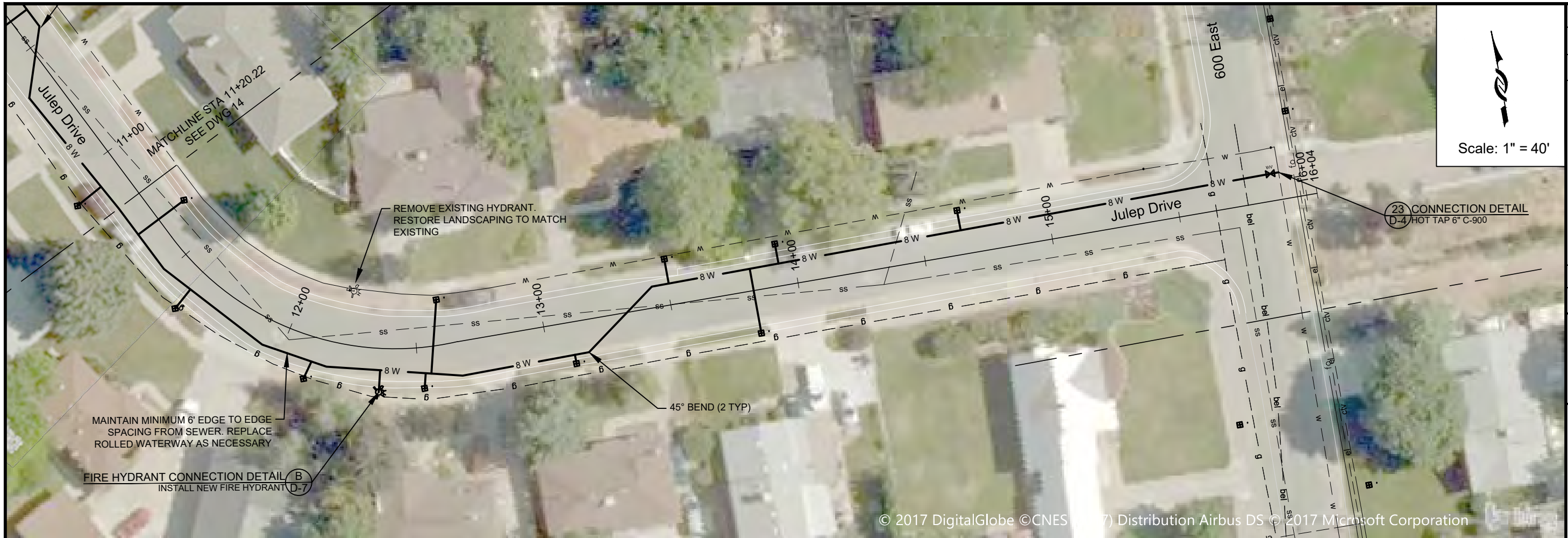


DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	2/5/19

Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
JULEP DRIVE (2)

PROJECT NUMBER: 4110
 DRAWING NUMBER: PP-15
 SHEET NUMBER: 18 OF 41



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

REGISTERED PROFESSIONAL ENGINEER

10158699-2202
Travis Paul
Christensen
UTAH

LINE IS 1/8" INCH AT 11x17 SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

Jordan Valley Water
Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
JULEP DRIVE (3)

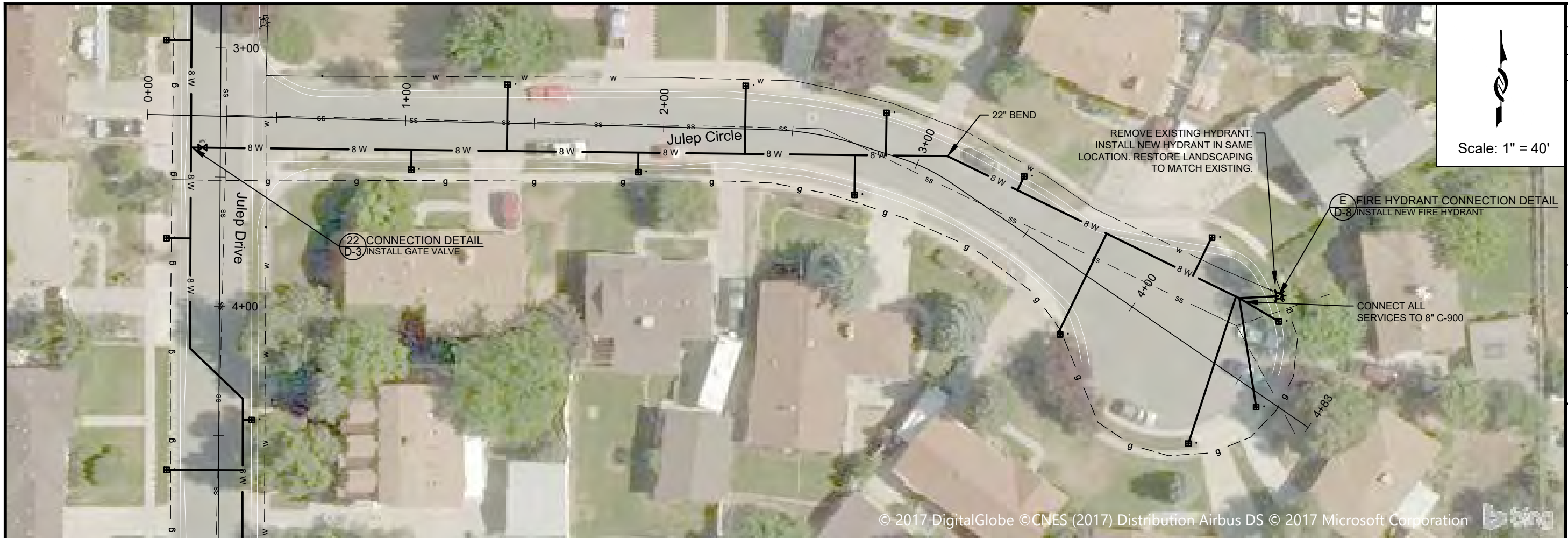
PROJECT NUMBER
4110

DRAWING NUMBER
PP-16

SHEET NUMBER
19 OF 41

Know what's below.
Call before you dig.

I:\PIPELINE\SYSTEM\4110_2019 PIPELINE REPLACEMENTS\2_ENGINEERING\DWGS\4110_4057 BASE NEW_LAYERED.DWG 1/19/2019



Scale: 1" = 40'

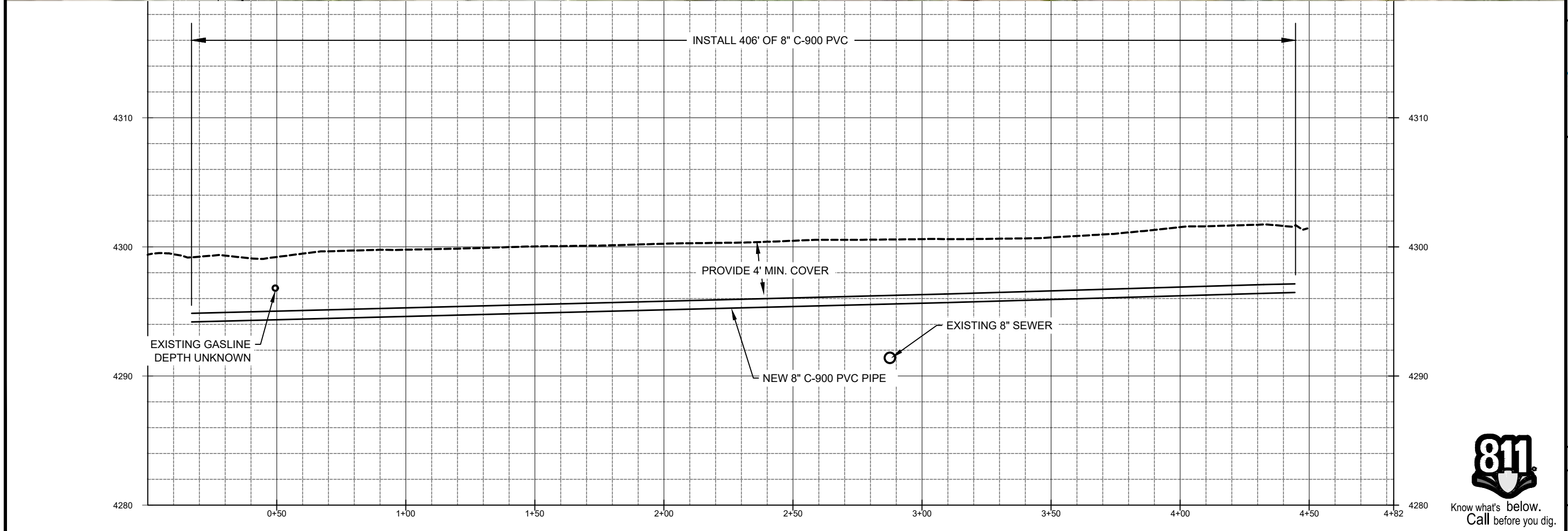
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

REGISTERED PROFESSIONAL ENGINEER
 10158699-2202
 Travis Paul Christensen
 UTAH

DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/5/19

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



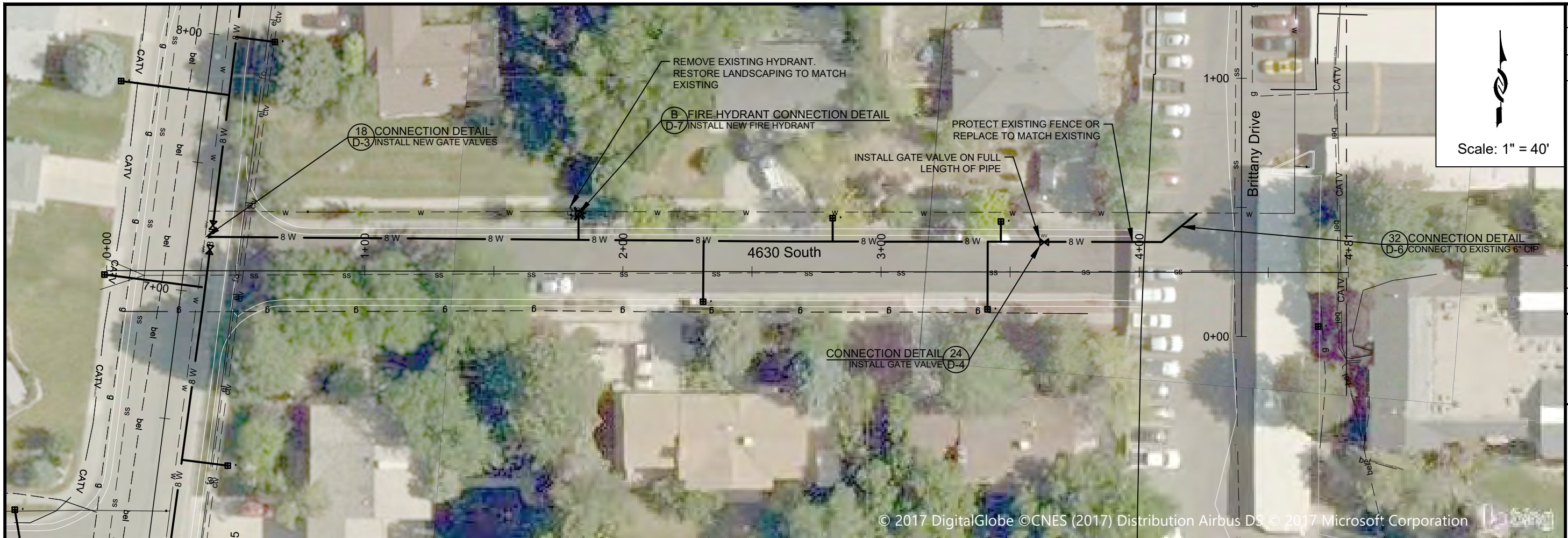
Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 566-4300

2019 PIPELINE REPLACEMENTS
JULEP CIRCLE (1)

PROJECT NUMBER: **4110**
 DRAWING NUMBER: **PP-17**
 SHEET NUMBER: **20 OF 41**

Know what's below.
 Call before you dig.

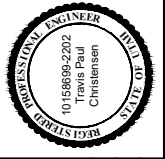
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 1/19/2019



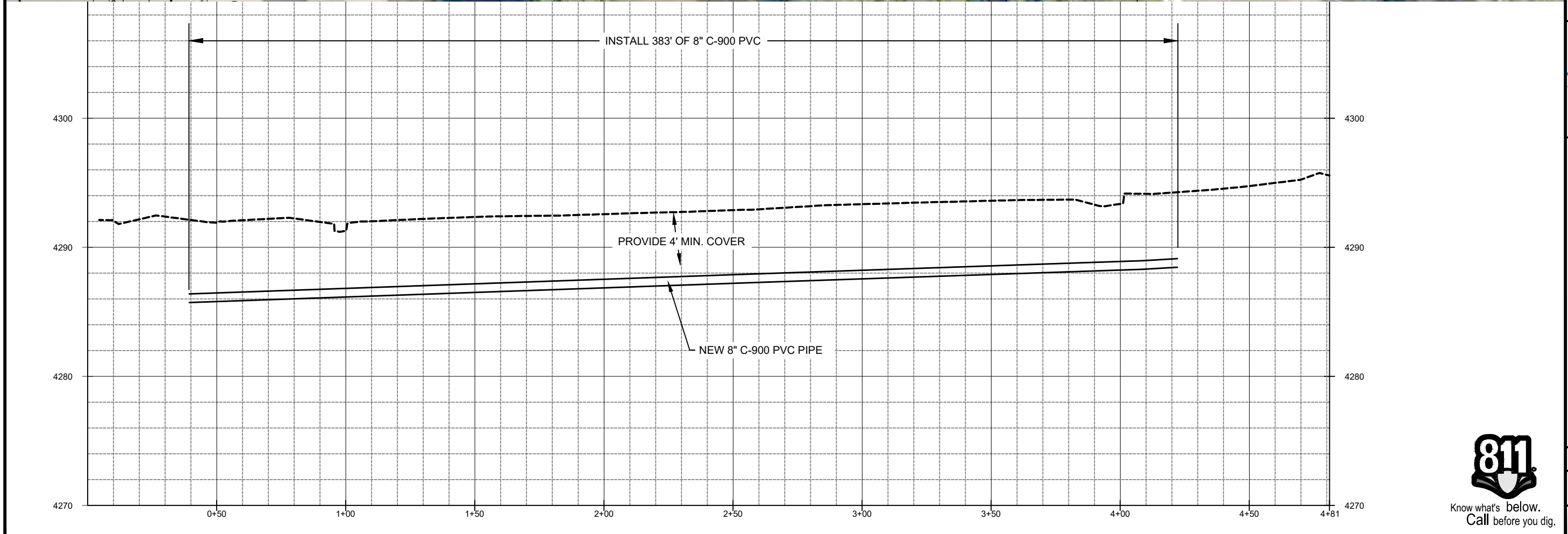
Scale: 1" = 40'



ZONE	REV	DESCRIPTION	BY	DATE	APP



LINE @ 1 INCH = AT SIXTY SIZE SHEET
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/5/19

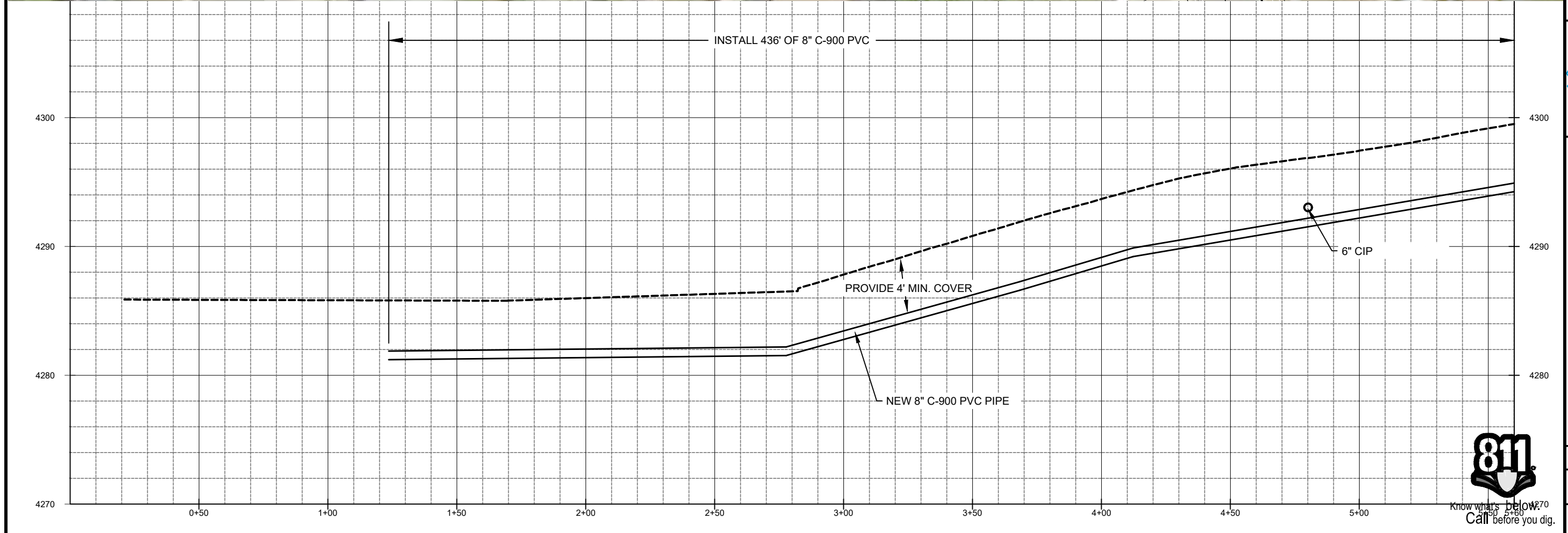
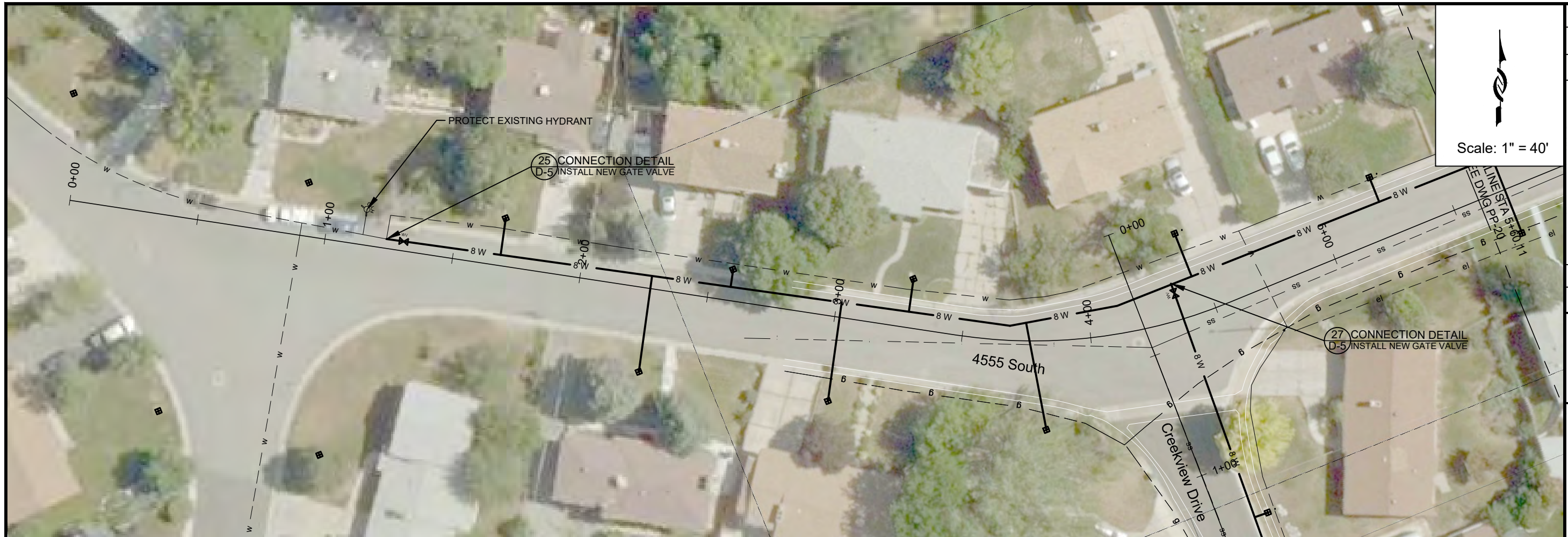


Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
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 PHONE (801) 566-4300

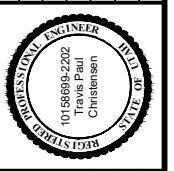
2019 PIPELINE REPLACEMENTS
 4630 SOUTH (1)

PROJECT NUMBER 4110
DRAWING NUMBER PP-18
SHEET NUMBER 21 OF 41





ZONE	REV	DESCRIPTION	BY	DATE	APP



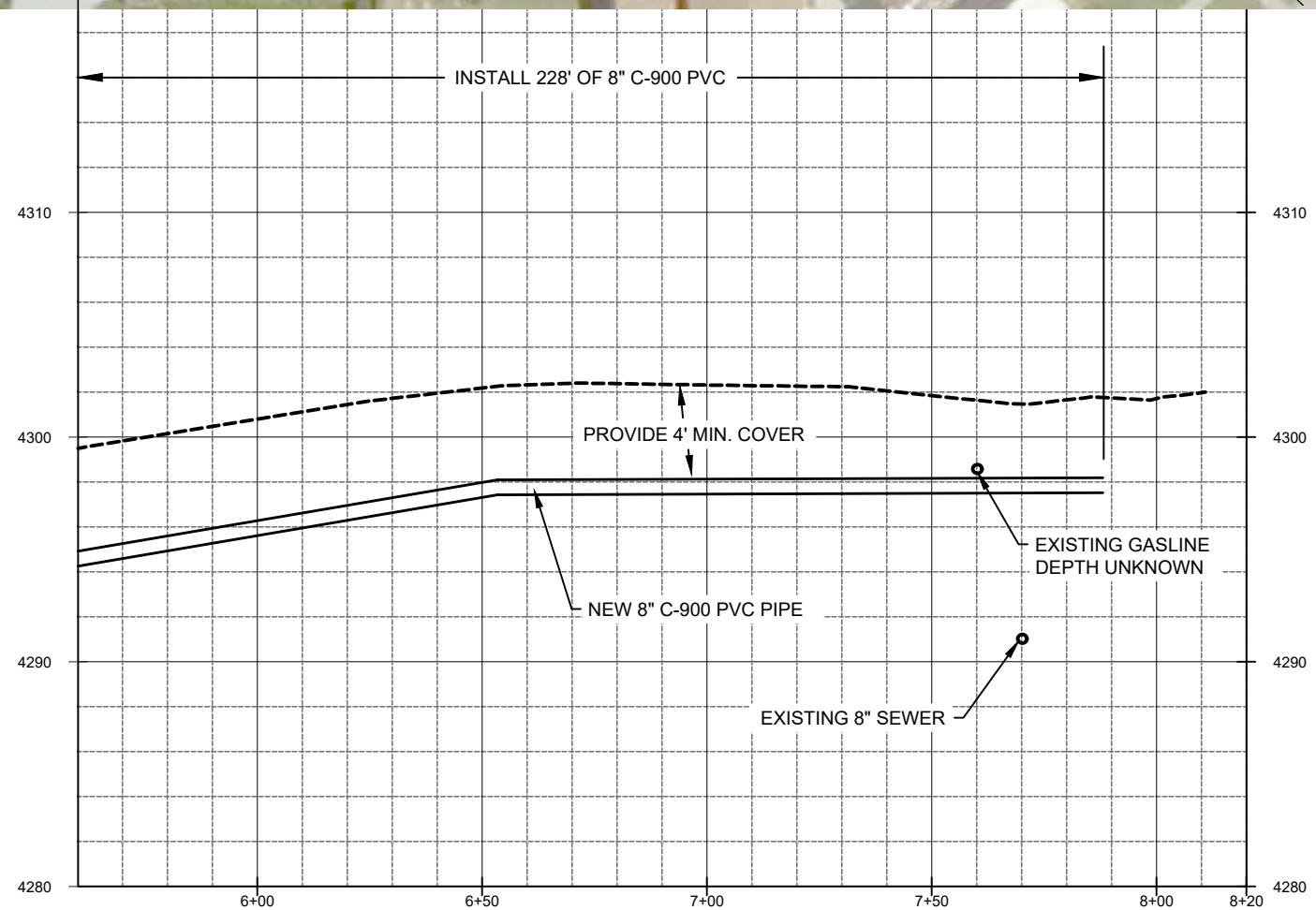
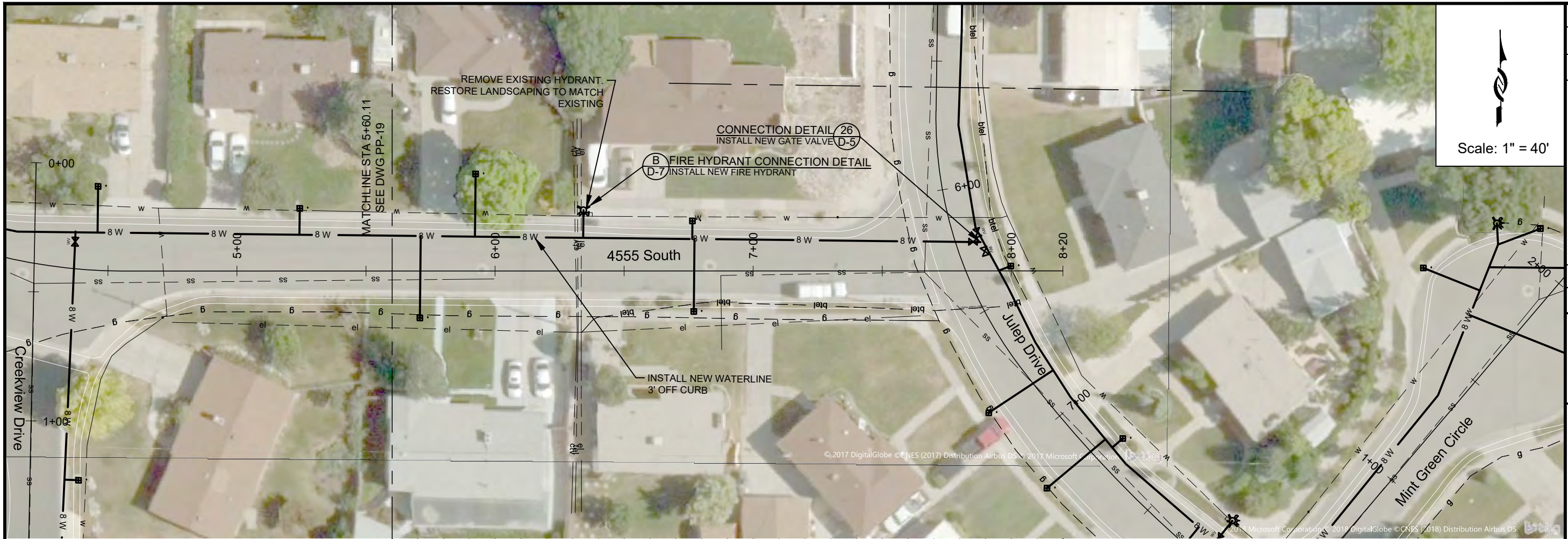
LINE @ 1/8" INCH
AT SIXTY SIZE SHEET

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	2/5/19

Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 566-4300

2019 PIPELINE REPLACEMENTS
 4555 SOUTH (1)

PROJECT NUMBER	4110
DRAWING NUMBER	PP-19
SHEET NUMBER	22 OF 41



ZONE REV	DESCRIPTION	BY	DATE	APP

LINE IS 1 INCH
 AT 1/4" = 1' SCALE
 DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/5/19



Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

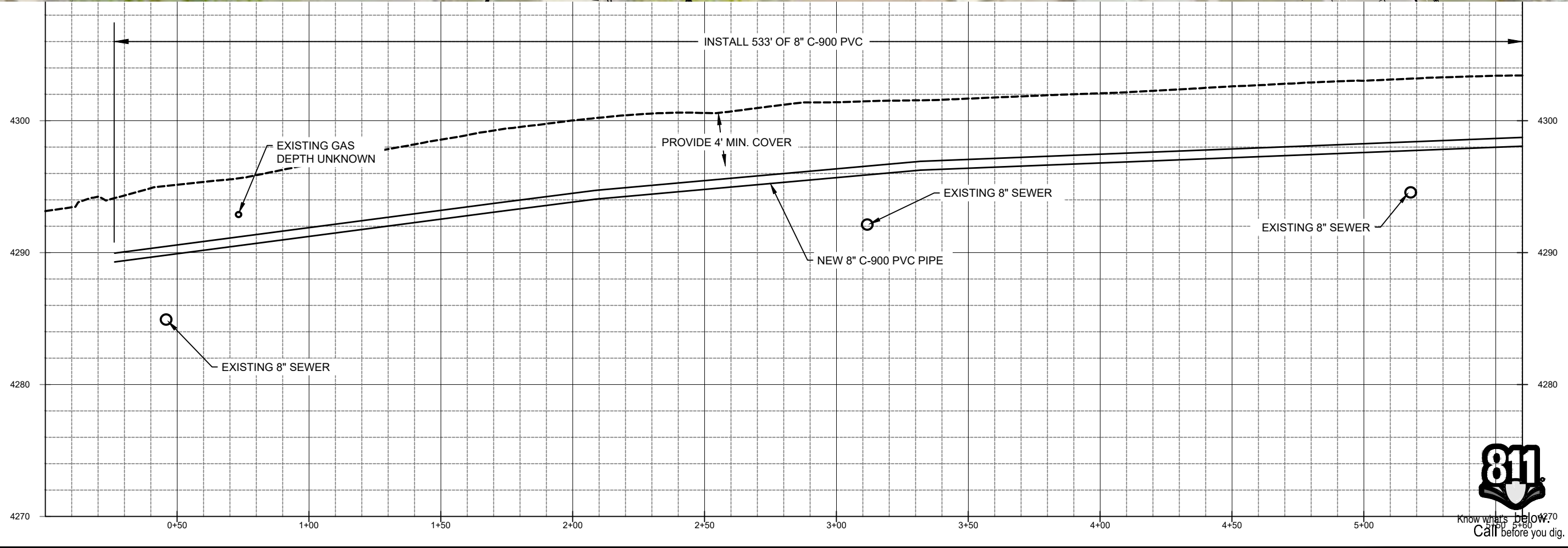
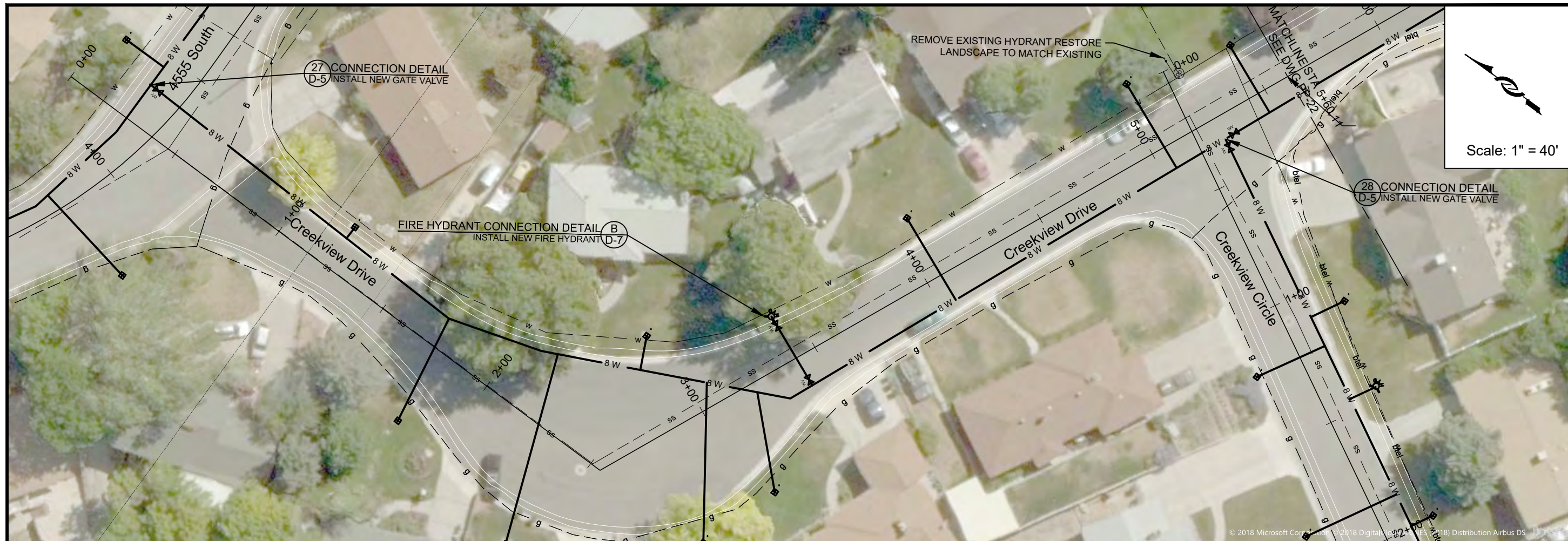
2019 PIPELINE REPLACEMENTS
 4555 SOUTH (2)

PROJECT NUMBER
4110

DRAWING NUMBER
PP-20

SHEET NUMBER
23 OF 41





ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	2/5/19

PROJECT NUMBER	4110
DRAWING NUMBER	PP-21
SHEET NUMBER	24 OF 41

2019 PIPELINE REPLACEMENTS
CREEKVIEW DRIVE (1)

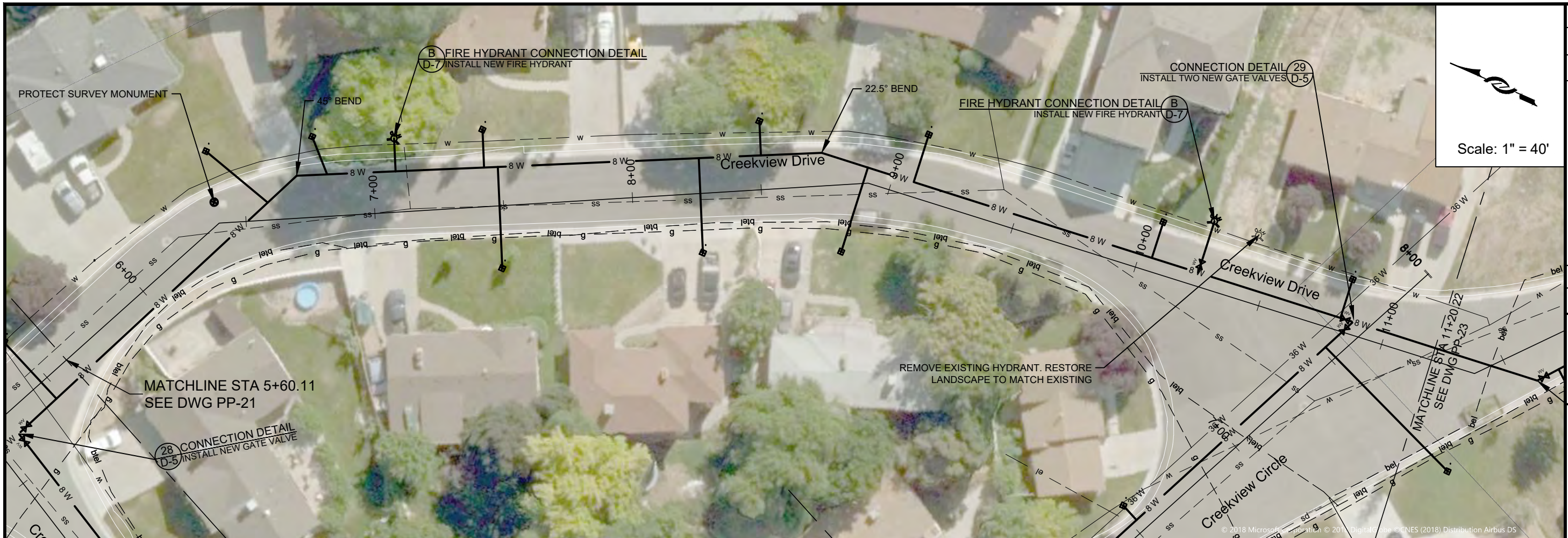
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 566-4300

REGISTERED PROFESSIONAL ENGINEER
10158899-2202
Travis Paul Christensen
UTAH STATE

LINE IS 1" INCH AT 11X17 SIZE SHEET

© 2019 PIPELINE REPLACEMENTS\ENGINEERING\DWGS\4110_4057_BASE_NEW_LAYERED.DWG

119 06M

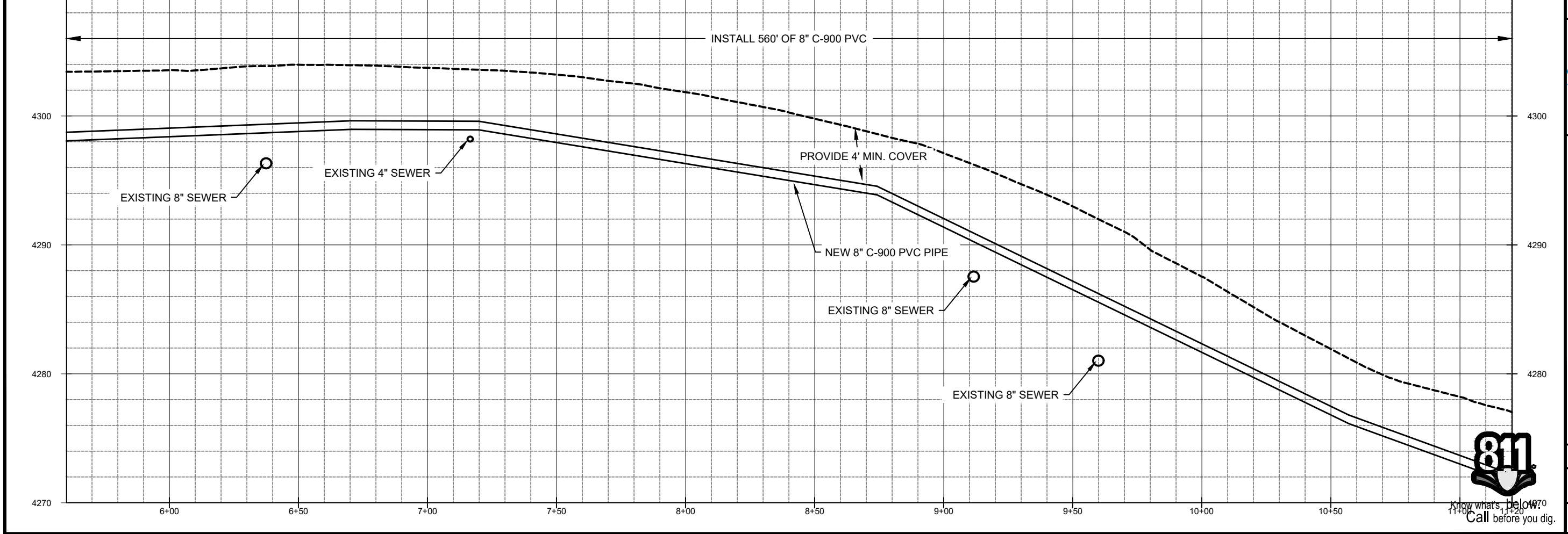


Scale: 1" = 40'

ZONE	REV	DESCRIPTION	BY	DATE	APP.

DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/6/19

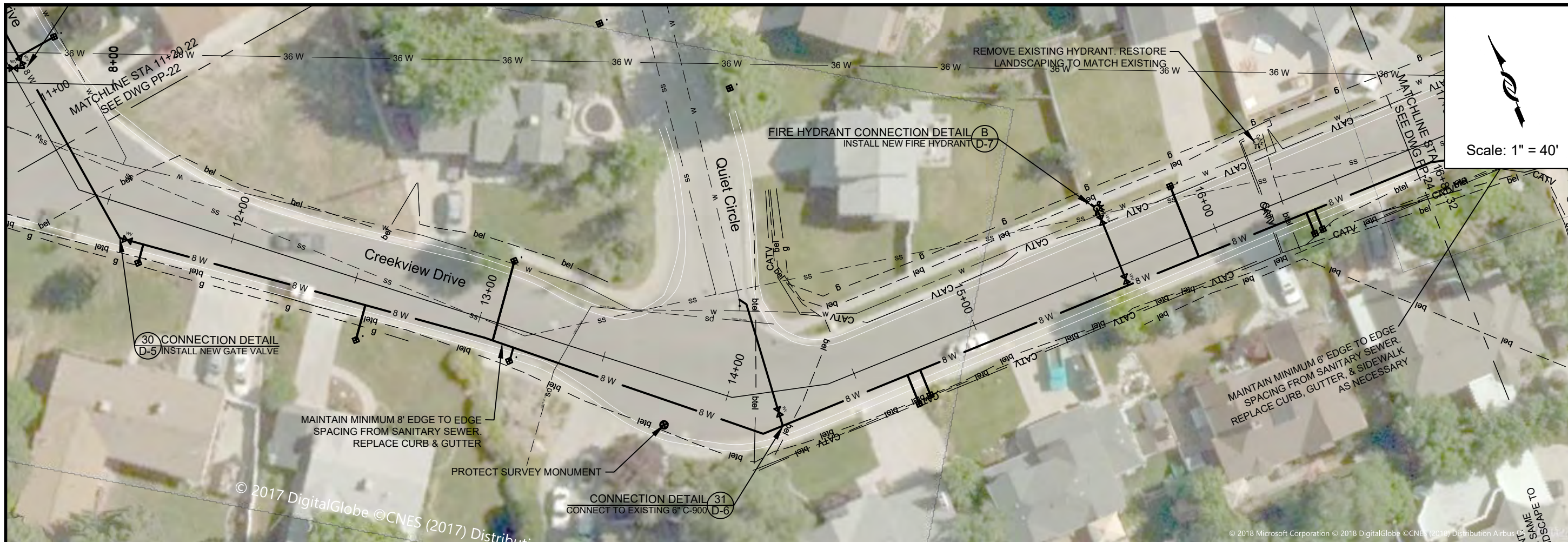
Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300



2019 PIPELINE REPLACEMENTS
 CREEKVIEW DRIVE (2)

PROJECT NUMBER: 4110
 DRAWING NUMBER: PP-22
 SHEET NUMBER: 25 OF 41

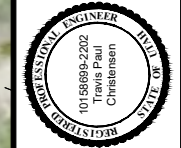




Scale: 1" = 40'

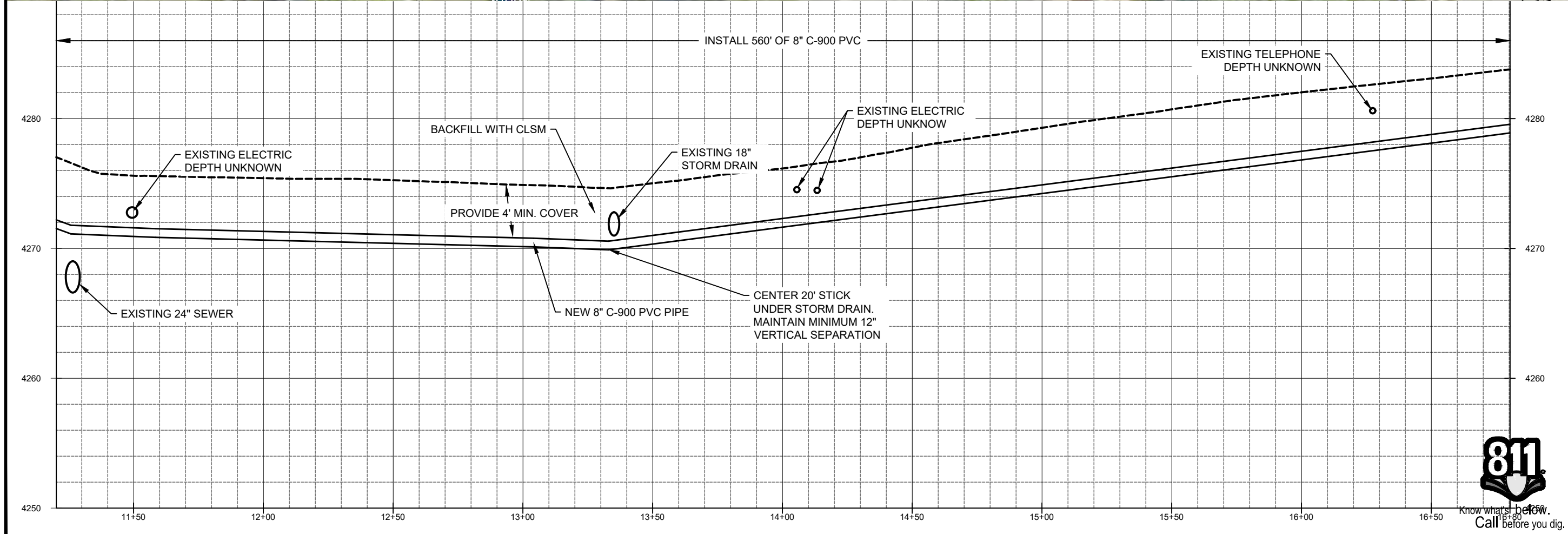


ZONE	REV.	DESCRIPTION	BY	DATE	APP.



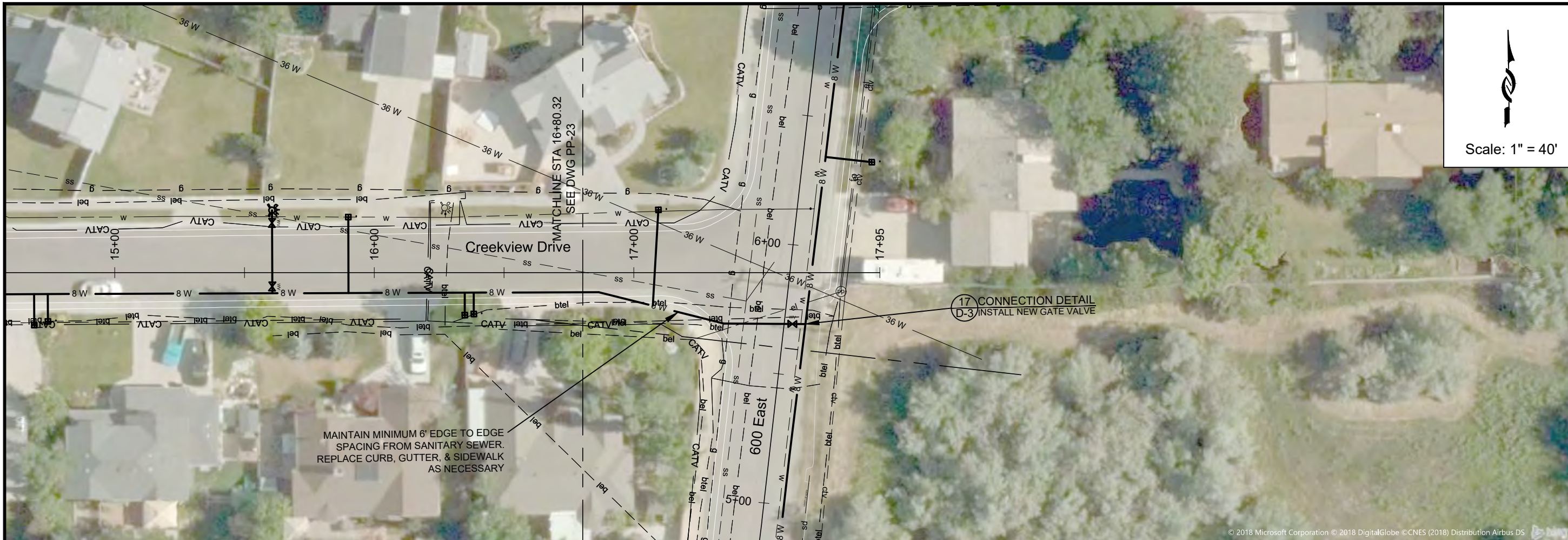
DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/6/19

Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300



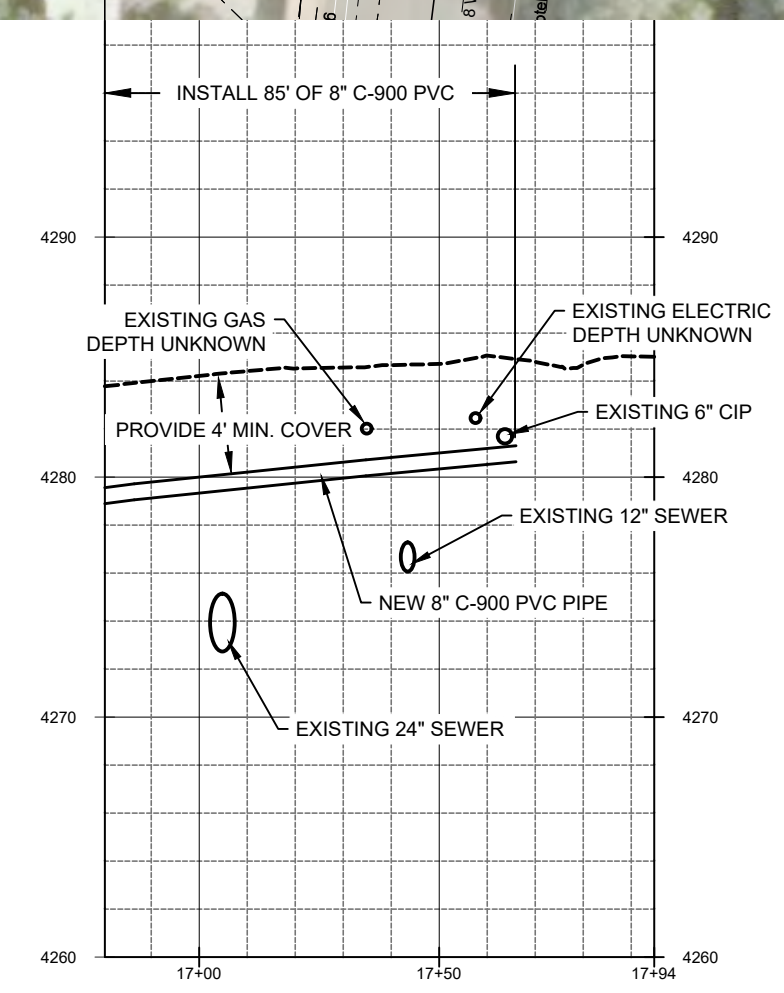
2019 PIPELINE REPLACEMENTS
 CREEKVIEW DRIVE (3)

PROJECT NUMBER
4110
 DRAWING NUMBER
PP-23
 SHEET NUMBER
26 OF 41



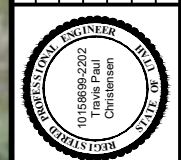
Scale: 1" = 40'

MAINTAIN MINIMUM 6" EDGE TO EDGE SPACING FROM SANITARY SEWER. REPLACE CURB, GUTTER, & SIDEWALK AS NECESSARY



Know what's below.
Call before you dig.

ZONE	REV	DESCRIPTION	BY	DATE	APP

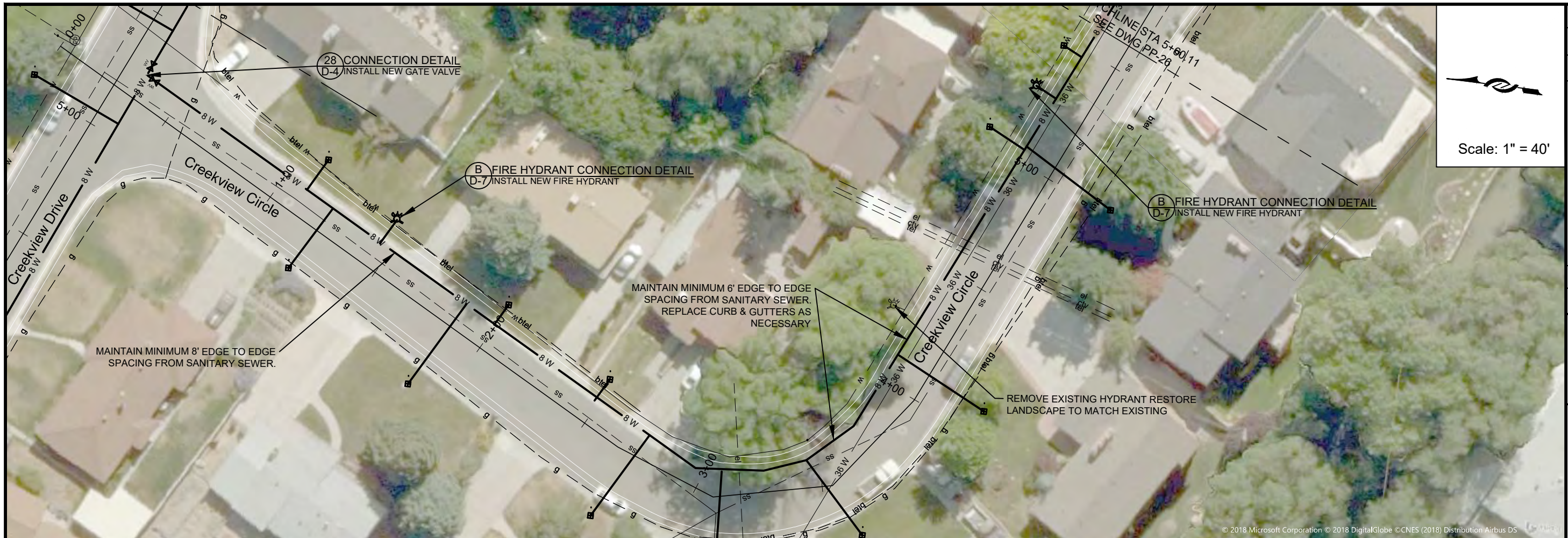


LINE IS 1/8" INCH AT 1/4" X 7/8" SIZE SHEET
 DESIGN: KEVIN REBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN REBOW
 DATE: 2/6/19



2019 PIPELINE REPLACEMENTS
 CREEKVIEW DRIVE (4)

PROJECT NUMBER
4110
 DRAWING NUMBER
PP-24
 SHEET NUMBER
27 OF 41



Scale: 1" = 40'

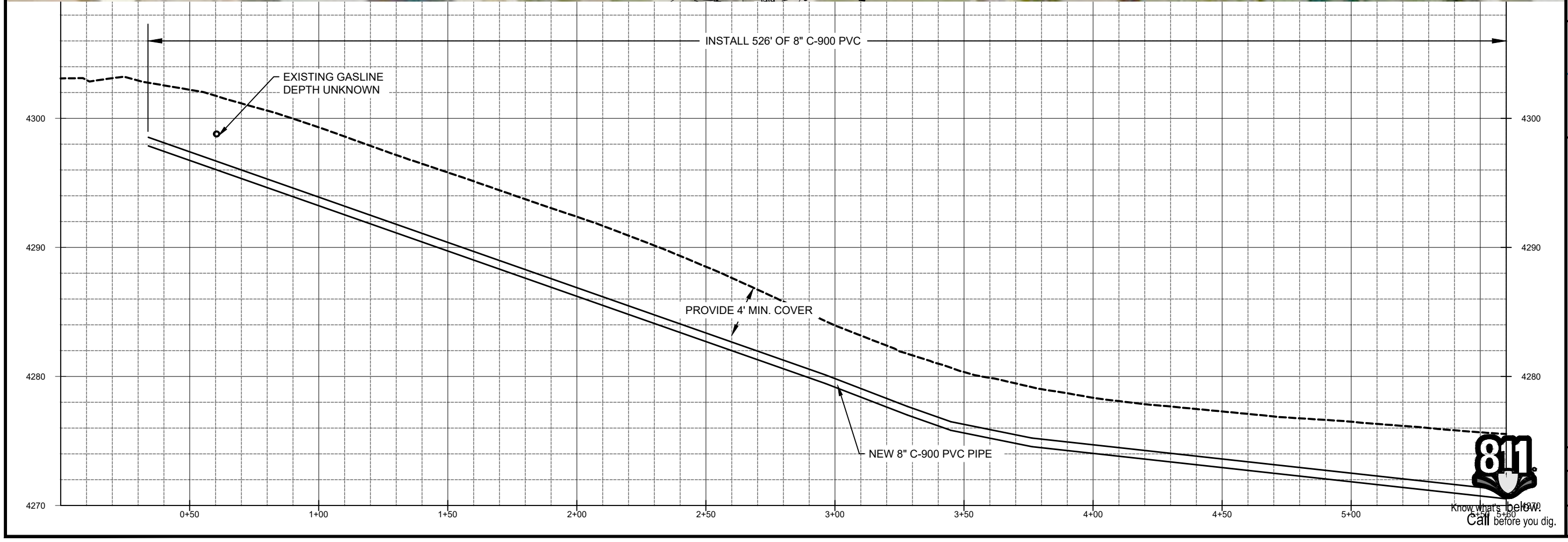
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

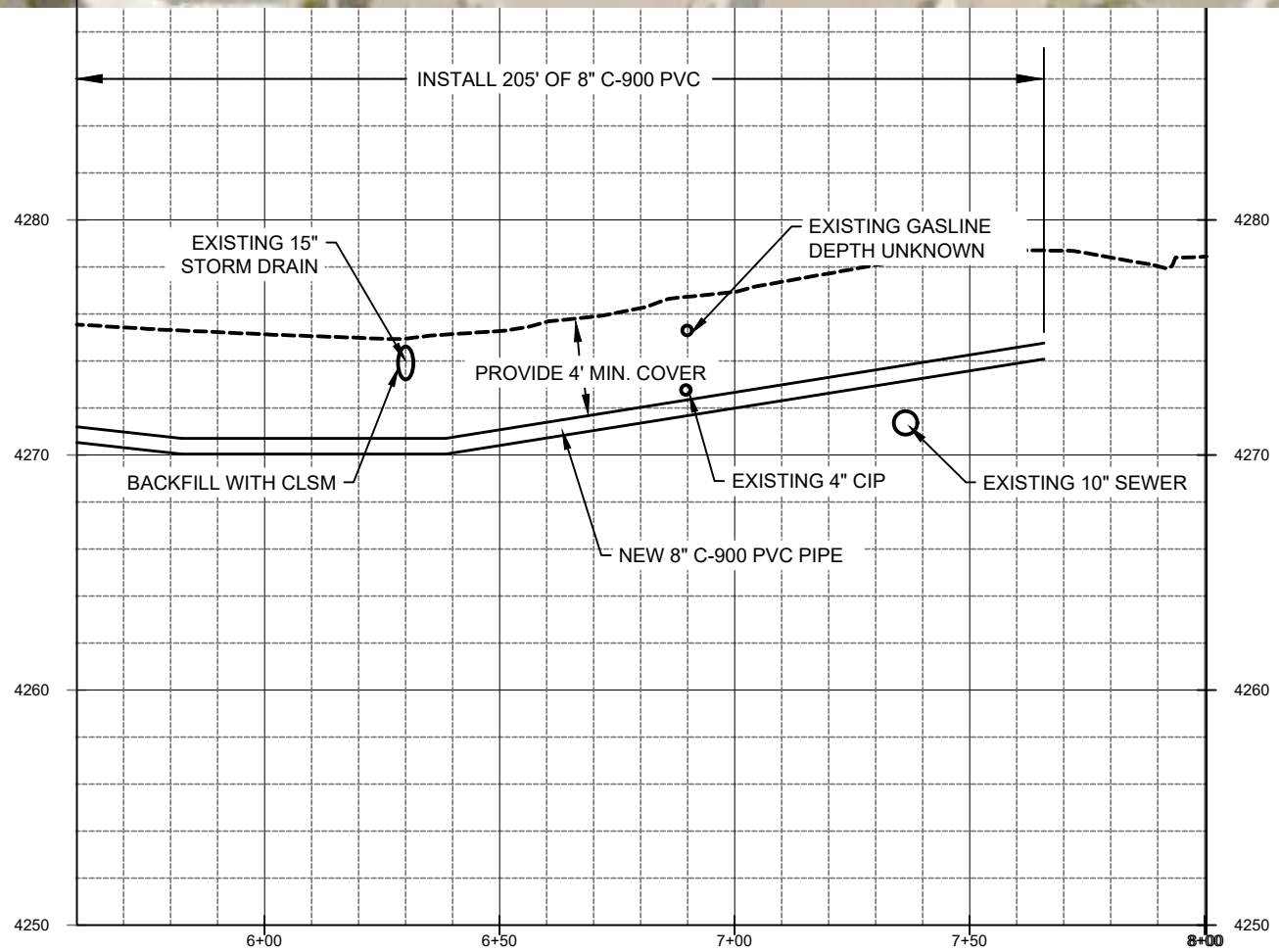
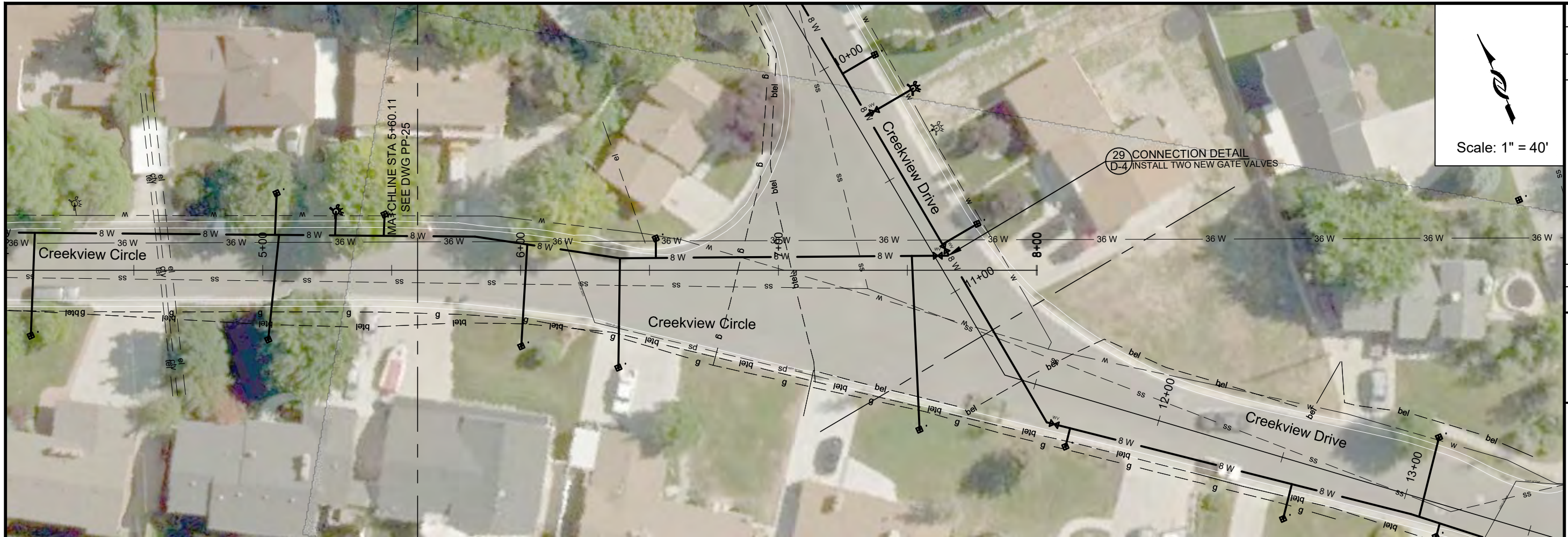
DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/6/19

Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
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2019 PIPELINE REPLACEMENTS
 CREEKVIEW CIRCLE (1)

PROJECT NUMBER: 4110
 DRAWING NUMBER: PP-25
 SHEET NUMBER: 28 OF 41





ZONE	REV.	DESCRIPTION	BY	DATE	APP.

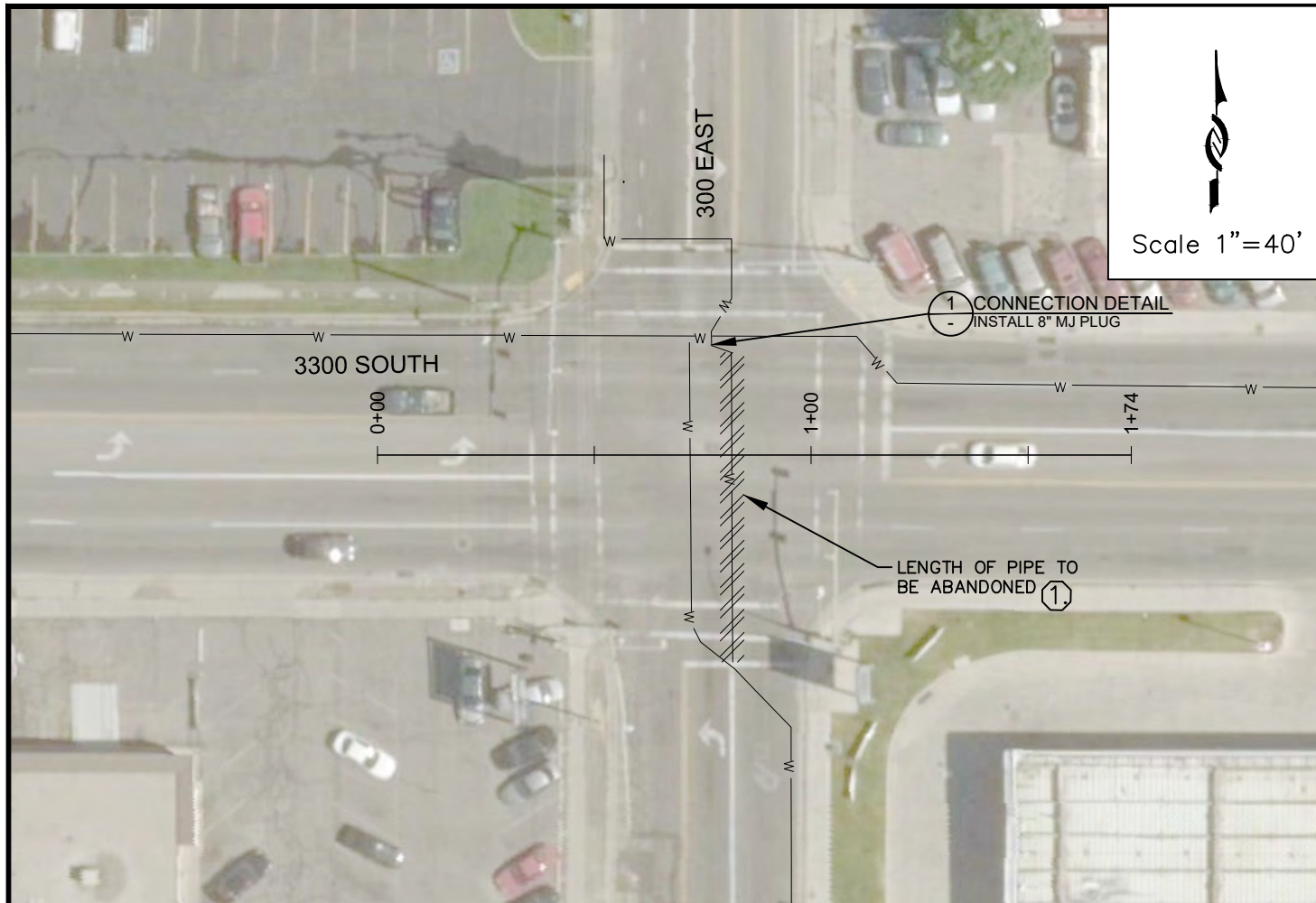


LINE IS 1 INCH
 AT 1/4" = 1' SCALE
 DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/6/19

Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 566-4300

2019 PIPELINE REPLACEMENTS
 CREEKVIEW CIRCLE (2)

PROJECT NUMBER
4110
 DRAWING NUMBER
PP-26
 SHEET NUMBER
29 OF 41



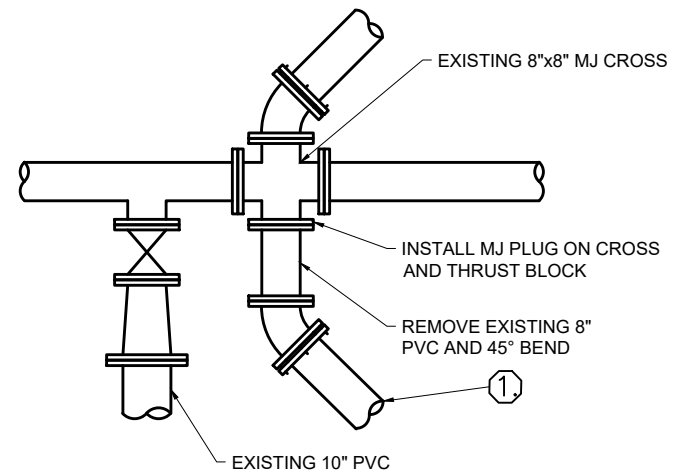
Scale 1"=40'

KEYED NOTES:

- ① CONTRACTOR SHALL COMPLETELY FILL THE ABANDONED PIPE WITH FLOWABLE FILL WITHIN UDOT ROW. APPROXIMATE LENGTH OF 6" PIPELINE TO BE ABANDONED IS 80'.

GENERAL NOTES:

- 1. UTILITY SURVEY WAS NOT PERFORMED ON THIS SECTION. CONTRACTOR SHALL RELY ON BLUE STAKES & THEIR OWN POTHOLING TO IDENTIFY CONFLICTING UTILITIES.
- 2. WORK TO BE COMPLETED BETWEEN 9pm TO 5am

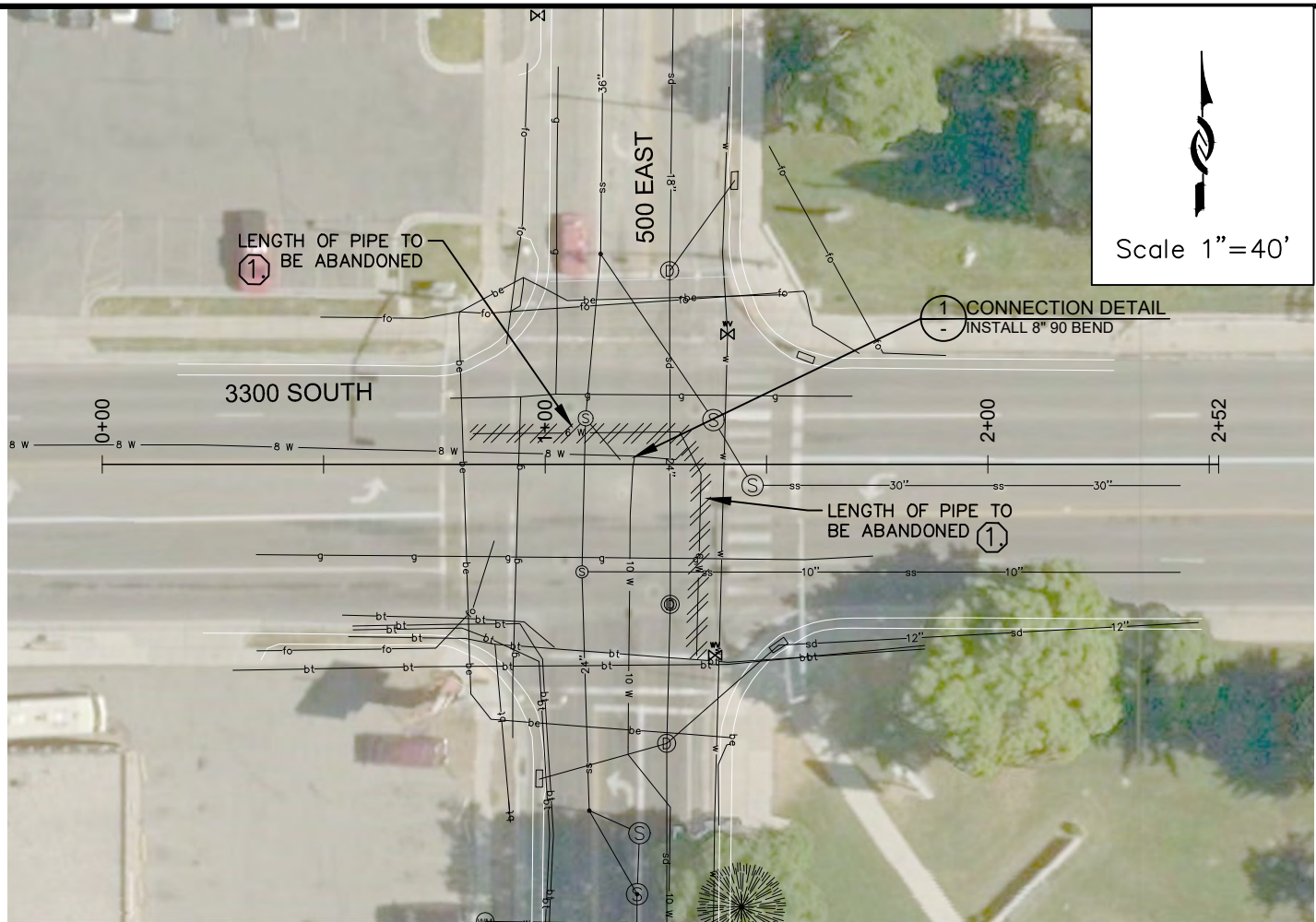


① PIPELINE ABANDONMENT DETAIL
SCALE: NTS



Know what's below.
Call before you dig.

PROJECT NUMBER	4110
DRAWING NUMBER	PP-27
SHEET NUMBER	30 OF 41
PROJECT TITLE	2019 PIPELINE REPLACEMENTS 300 EAST 3300 SOUTH (1)
DESIGNER	KEVIN RUBOW
DRAFTER	TODD PETERSON
PROJ. MGR.	KEVIN RUBOW
DATE	2/6/19
REGISTERED PROFESSIONAL ENGINEER	10158689-2202 Travis Paul Christensen
DESIGNER	KEVIN RUBOW
DRAFTER	TODD PETERSON
PROJ. MGR.	KEVIN RUBOW
DATE	2/6/19
LINE IS 1 INCH AT 1/4" X 7/8" SIZE SHEET	
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 566-4300	
DESCRIPTION	
ZONE	
REV.	
BY	
DATE	
APP.	



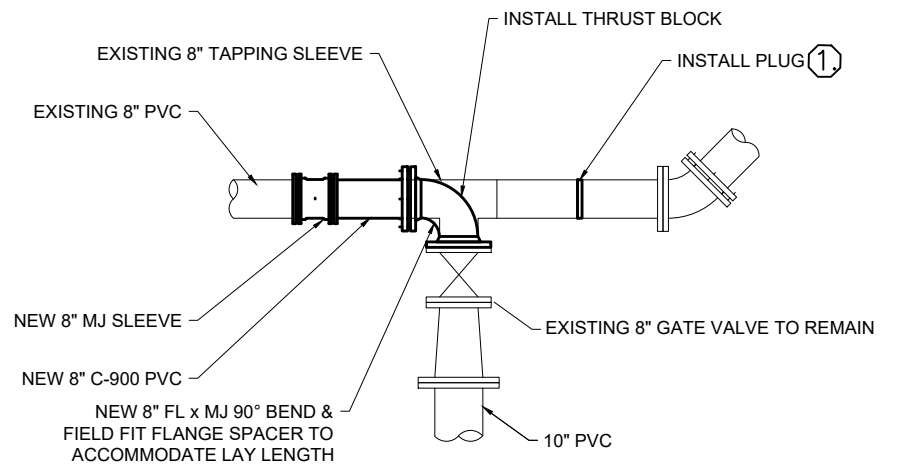
Scale 1"=40'

KEYED NOTES:

- ① CONTRACTOR SHALL COMPLETELY FILL THE ABANDONED PIPE WITH FLOWABLE FILL WITHIN UDOT ROW. APPROXIMATE LENGTH OF 6" DIAMETER PIPELINE TO BE ABANDONED IS 120'

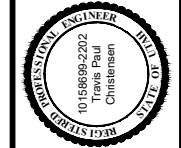
GENERAL NOTES:

- 1. WORK TO BE COMPLETED BETWEEN 9pm TO 5am



① PIPELINE ABANDONMENT DETAIL
SCALE: NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP



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

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/6/19

Jordan Valley Water
Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 566-4300

2019 PIPELINE REPLACEMENTS
500 E 3300 S (1)

PROJECT NUMBER
4110

DRAWING NUMBER
PP-28

SHEET NUMBER
31 OF 41

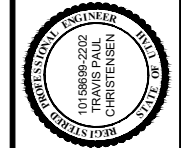




NOTES:

1. THE VALVE REPLACEMENTS ARE LOCATED WITHIN THE PARK STRIP AREA. THE PARK STRIPS ARE APPROXIMATELY 4' WIDE AND THE EXISTING WATERLINES HAVE 4' TO 5' OF COVER.
2. CONTRACTOR SHALL PRE-DIG MULTIPLE LOCATIONS PRIOR TO SHUTDOWN OF THE WATERLINES; TO MINIMIZE THE REQUIRED NUMBER OF SHUTDOWNS. WATERLINES CAN TYPICALLY BE SHUTDOWN FROM 9 AM TO 4 PM.
3. CONTRACTOR SHALL REPAIR SPRINKLER LINES DAMAGED DUE TO CONSTRUCTION ACTIVITIES AND RESTORE LANDSCAPE TO PRE-CONSTRUCTION CONDITIONS.
4. STANDARD VALVE REPLACEMENT DETAIL IS SHOWN ON SHEET D-6 DETAIL #35.

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN REBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN REBOW
DATE: 2/11/19



2019 PIPELINE REPLACEMENTS
Foothill Area Valve Replacements (1)

PROJECT NUMBER	4110
DRAWING NUMBER	PP-29
SHEET NUMBER	32 OF 41



- NOTES:**
1. THE VALVE REPLACEMENTS ARE LOCATED WITHIN THE PARK STRIP AREA. THE PARK STRIPS ARE APPROXIMATELY 4' WIDE AND THE EXISTING WATERLINES HAVE 4' TO 5' OF COVER.
 2. CONTRACTOR SHALL PRE-DIG MULTIPLE LOCATIONS PRIOR TO SHUTDOWN OF THE WATERLINES; TO MINIMIZE THE REQUIRED NUMBER OF SHUTDOWNS. WATERLINES CAN TYPICALLY BE SHUTDOWN FROM 9 AM TO 4 PM.
 3. CONTRACTOR SHALL REPAIR SPRINKLER LINES DAMAGED DUE TO CONSTRUCTION ACTIVITIES AND RESTORE LANDSCAPE TO PRE-CONSTRUCTION CONDITIONS.
 4. STANDARD VALVE REPLACEMENT DETAIL IS SHOWN ON SHEET D-6 DETAIL #35.



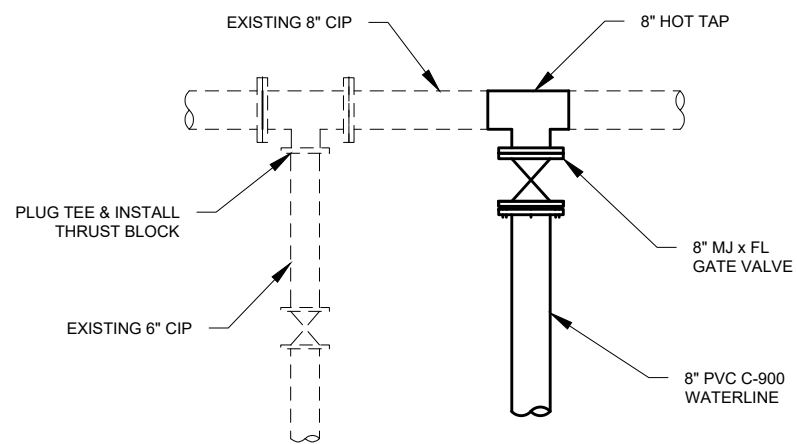
LINE IS 1" INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN REBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN REBOW
DATE: 2/11/19

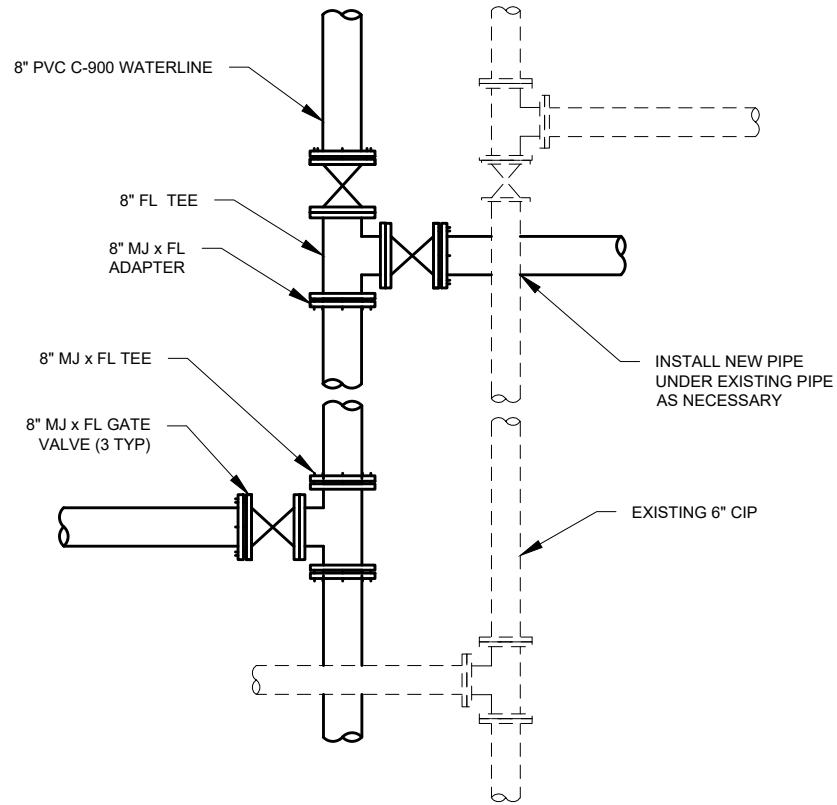


2019 PIPELINE REPLACEMENTS
Foothill Area Valve Replacements (2)

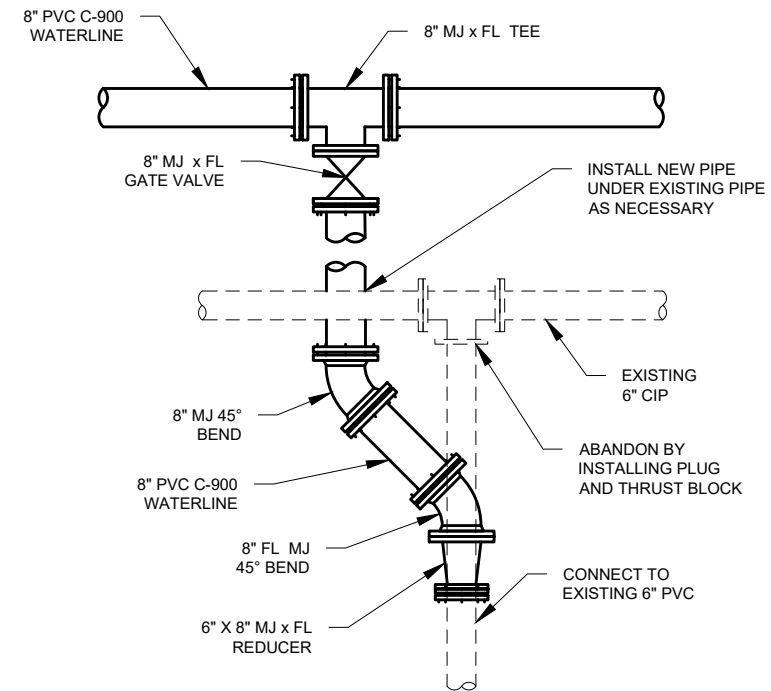
PROJECT NUMBER	4110
DRAWING NUMBER	PP-30
SHEET NUMBER	33 OF 41



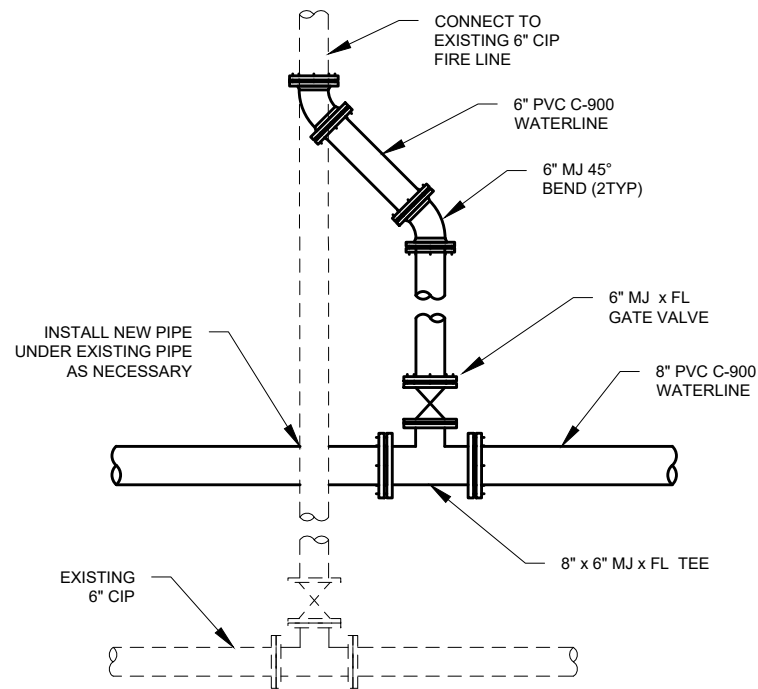
1 CONNECTION DETAIL
SCALE: NTS



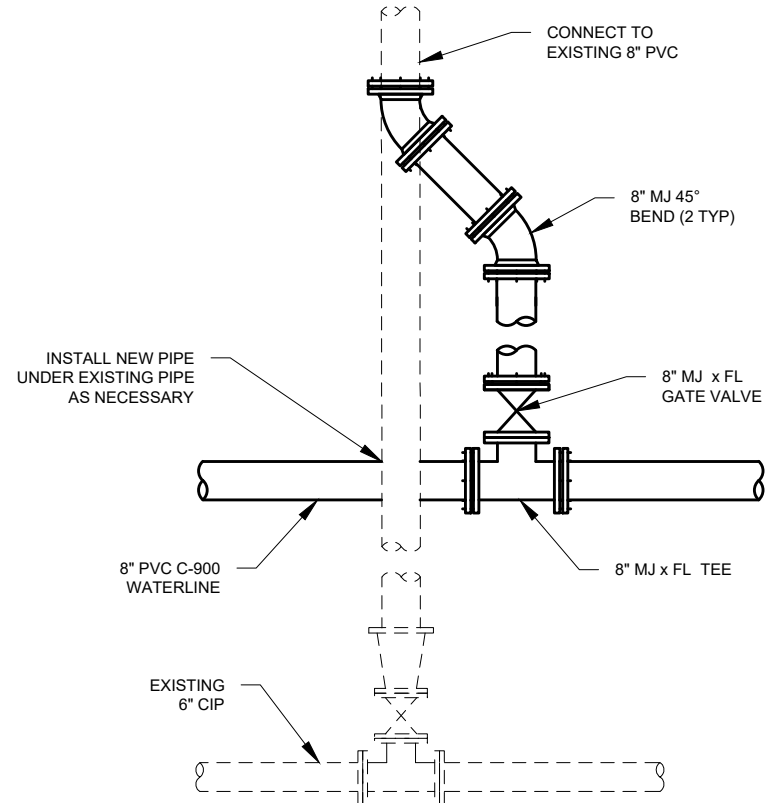
2 CONNECTION DETAIL
SCALE: NTS



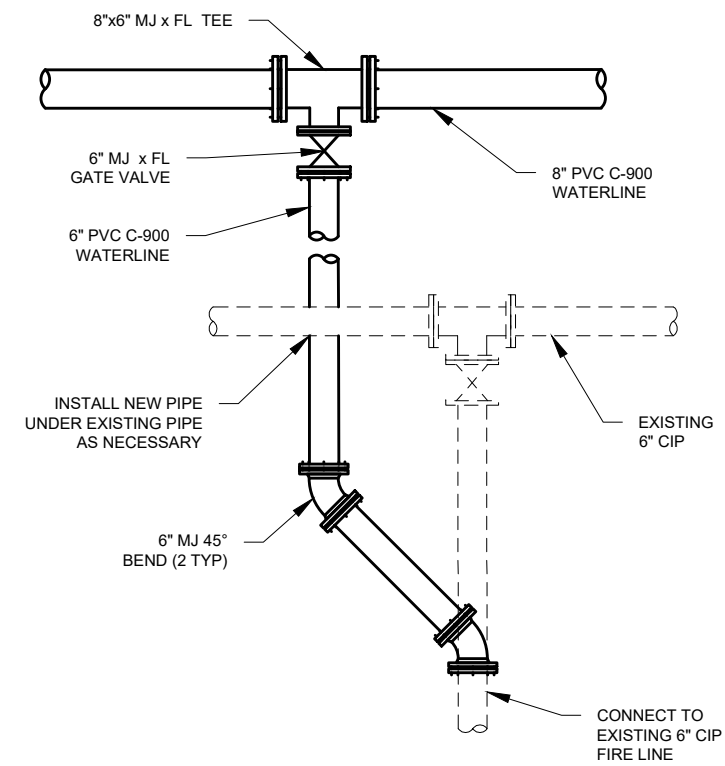
3 CONNECTION DETAIL
SCALE: NTS



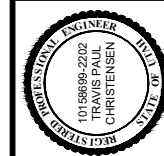
4 FIRE LINE DETAIL
SCALE: NTS



5 CONNECTION DETAIL
SCALE: NTS



6 FIRE LINE DETAIL
SCALE: NTS

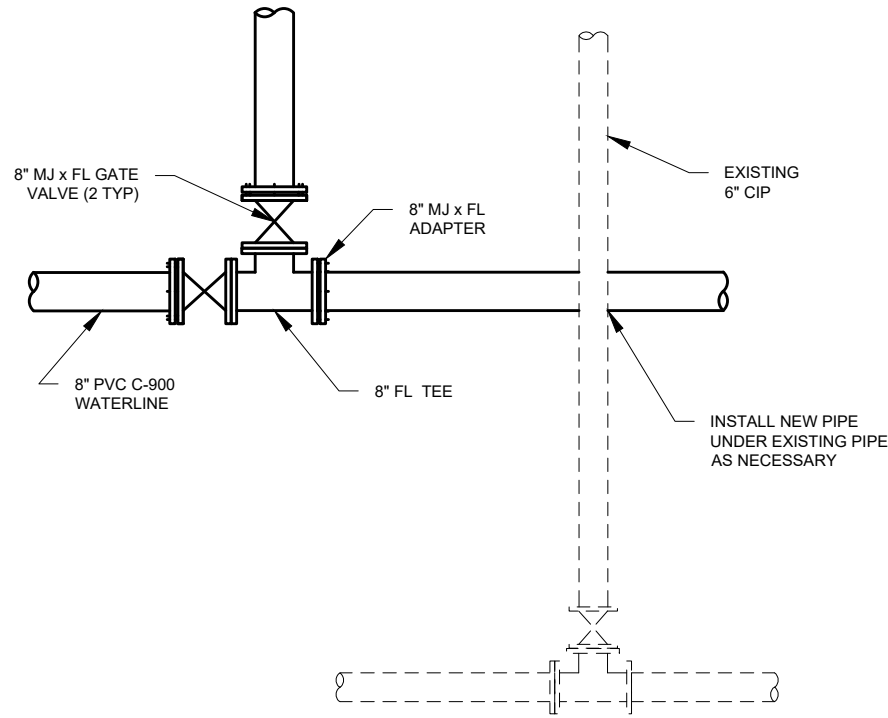


LINE IS 1/8\"/>

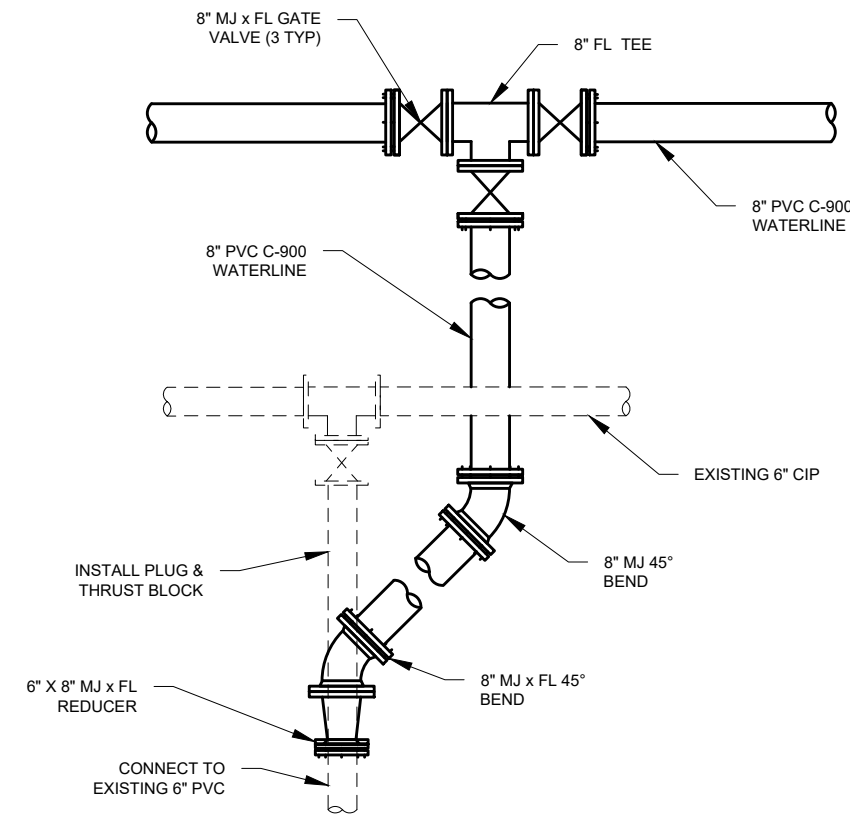
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
PIPE DETAILS

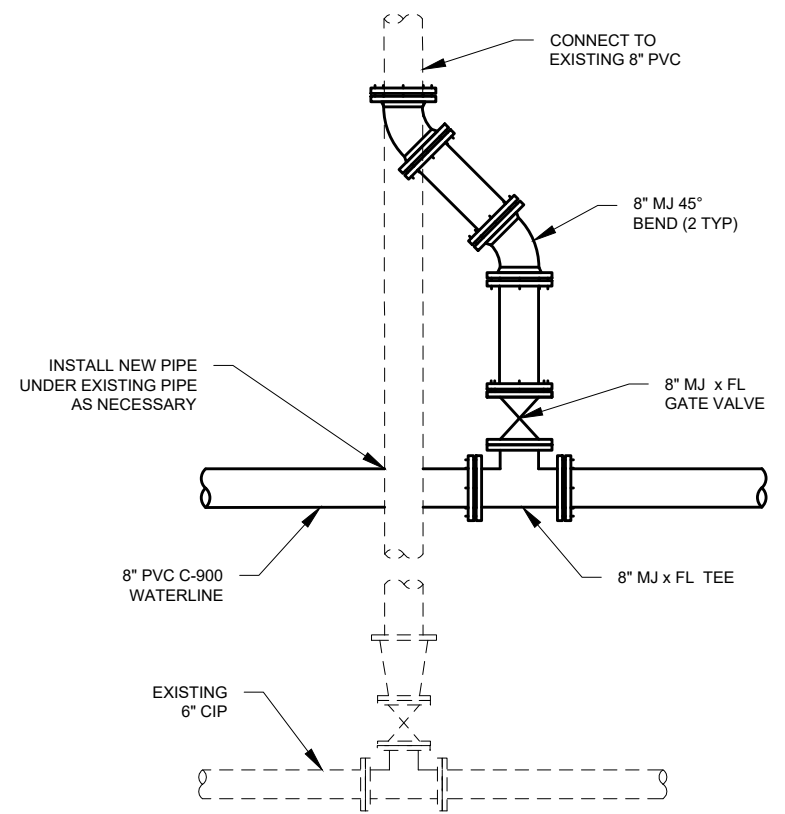
PROJECT NUMBER
4110
DRAWING NUMBER
D-1
SHEET NUMBER
34 OF 41



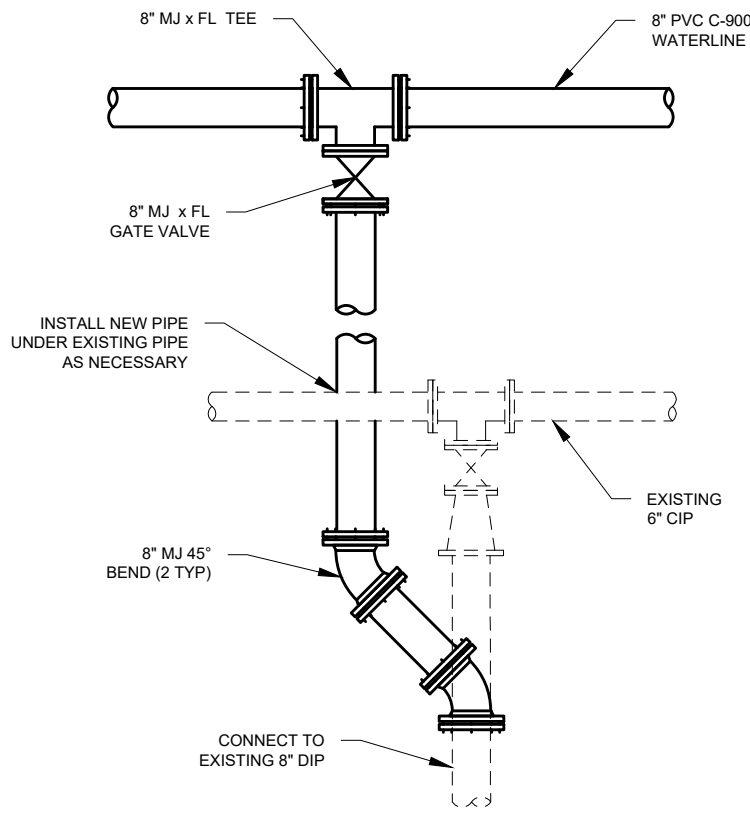
7 CONNECTION DETAIL
SCALE:NTS



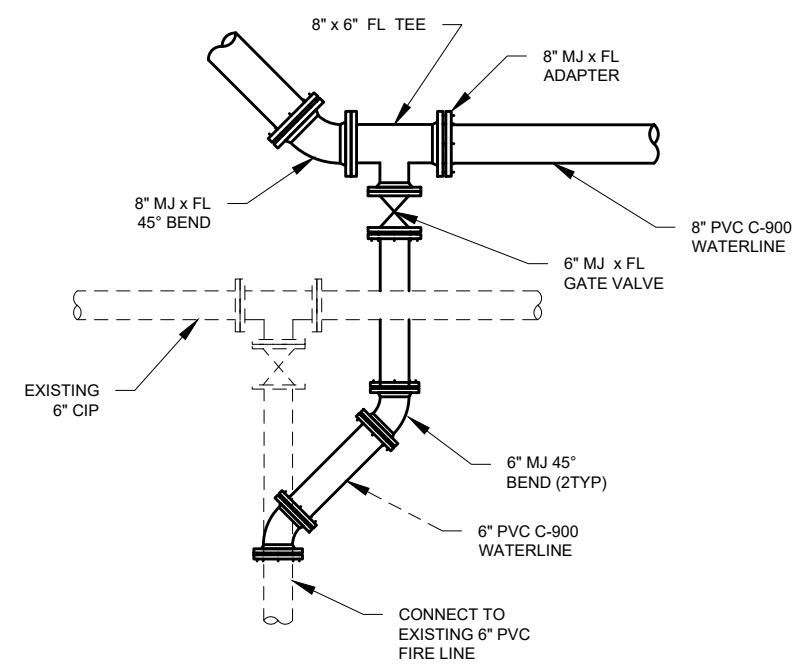
8 CONNECTION DETAIL
SCALE:NTS



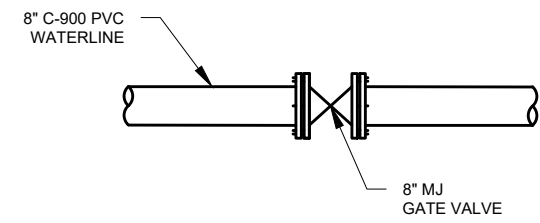
9 CONNECTION DETAIL
SCALE:NTS



10 CONNECTION DETAIL
SCALE:NTS



11 FIRE LINE DETAIL
SCALE:NTS



12 CONNECTION DETAIL
SCALE:NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

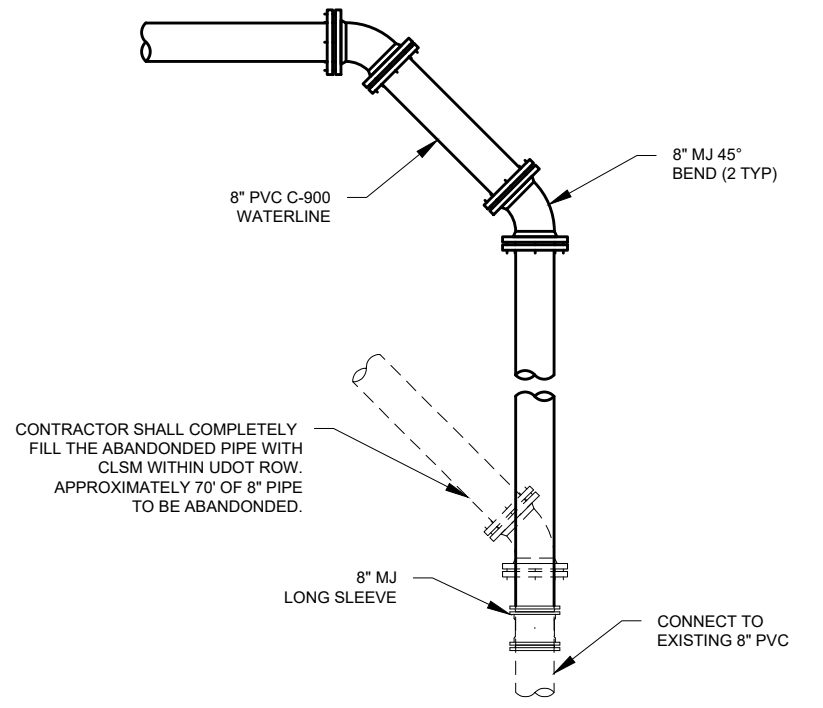
PROFESSIONAL ENGINEER STATE OF UTAH
 10158689-2022
 TRAVIS PAUL CHRISTENSEN

LINE IS 1/8" INCH
 AT 11X17" SIZE SHEET
 DESIGN: KEVIN RIBBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RIBBOW
 DATE: 2/11/19

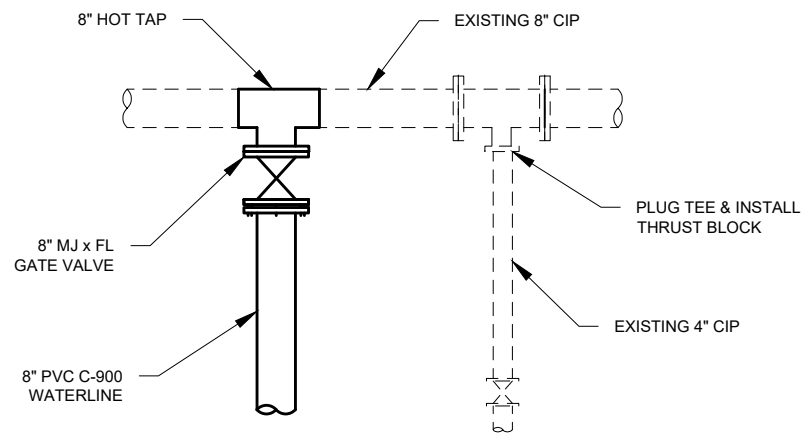
Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
 PIPE DETAILS

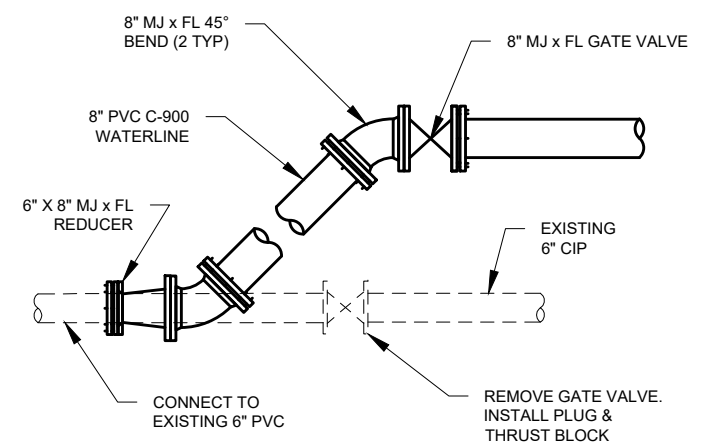
PROJECT NUMBER
4110
 DRAWING NUMBER
D-2
 SHEET NUMBER
35 OF 41



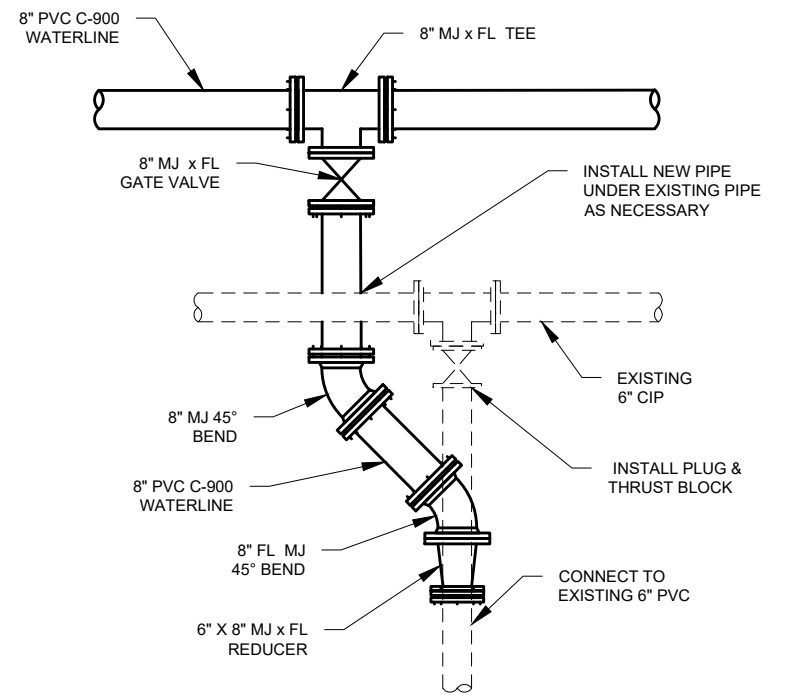
13 CONNECTION DETAIL
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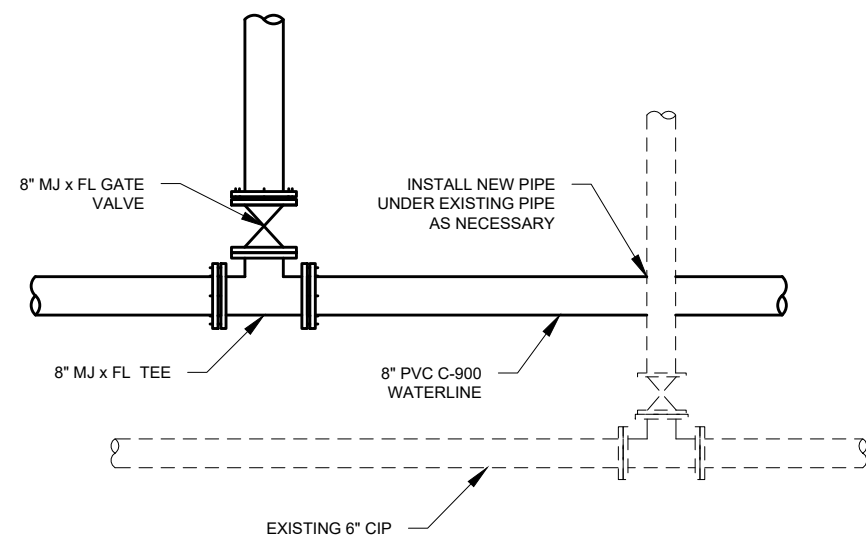
14 CONNECTION DETAIL
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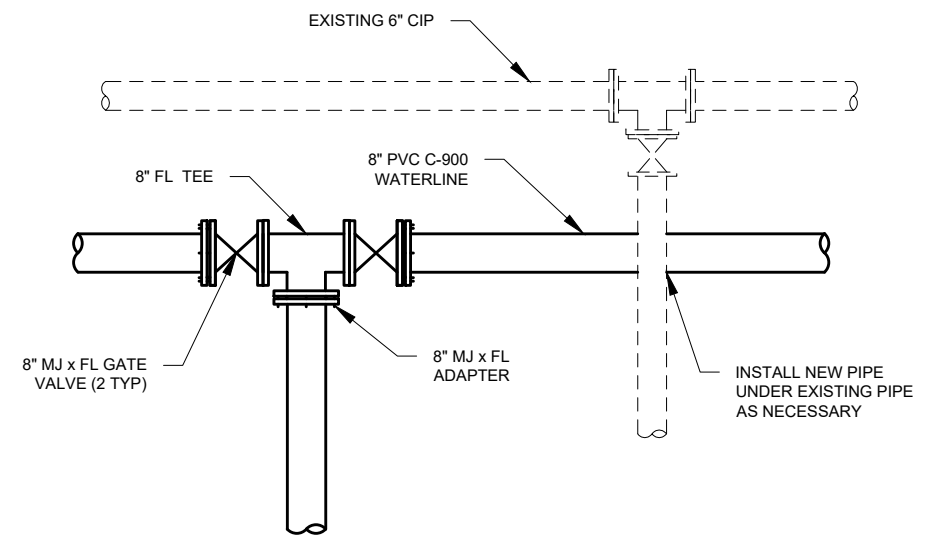
15 CONNECTION DETAIL
SCALE:NTS



16 CONNECTION DETAIL
SCALE:NTS



17 CONNECTION DETAIL
SCALE:NTS



18 CONNECTION DETAIL
SCALE:NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH
AT 11x17" SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/1/19

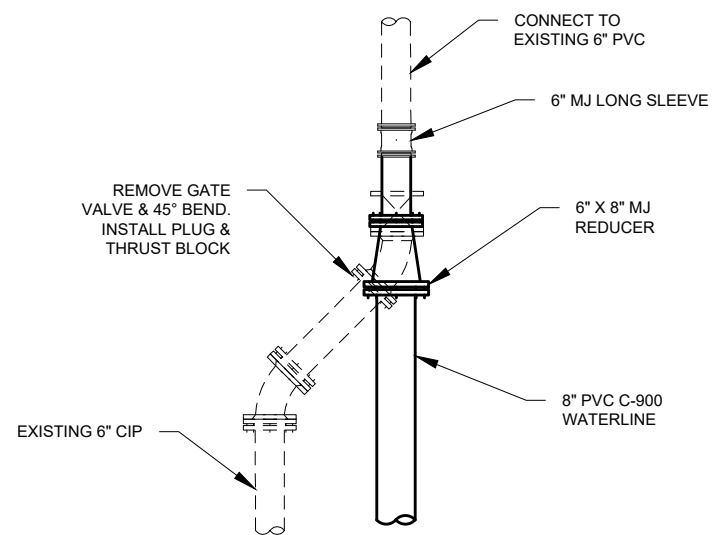


2019 PIPELINE REPLACEMENTS
PIPE DETAILS

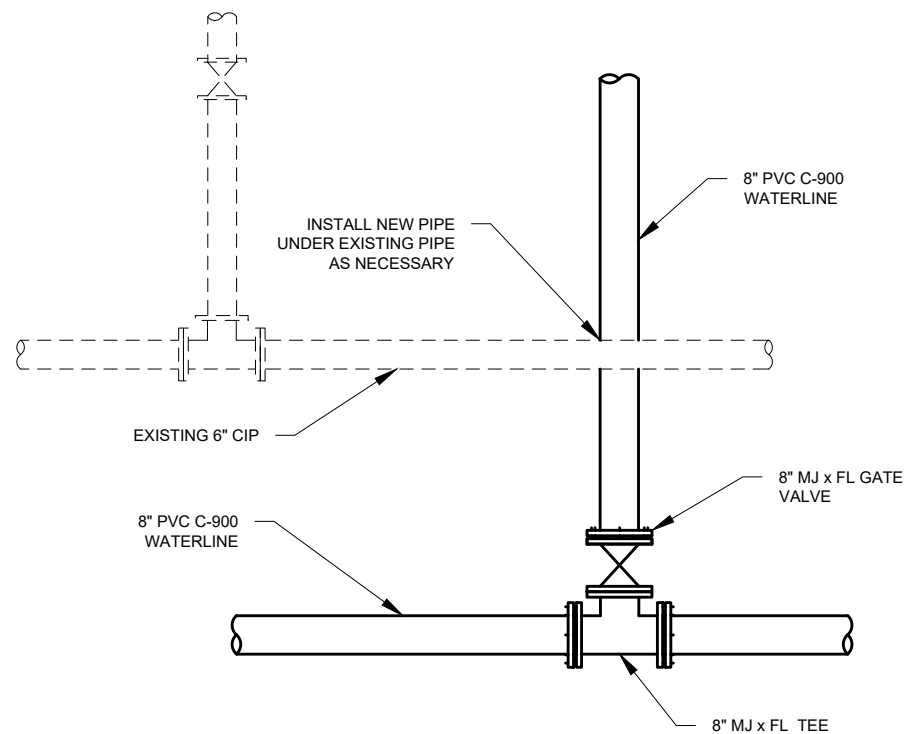
PROJECT NUMBER
4110

DRAWING NUMBER
D-3

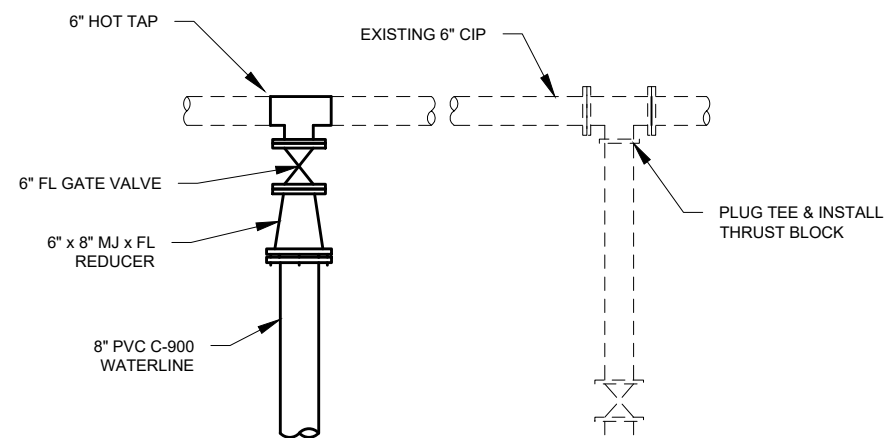
SHEET NUMBER
36 OF 41



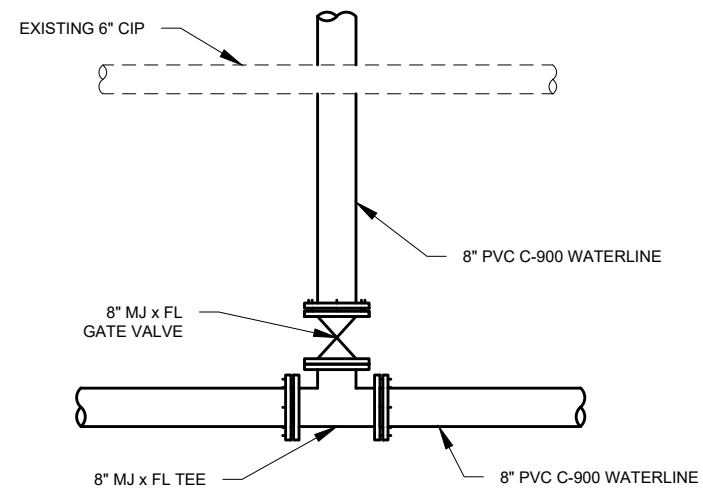
19 CONNECTION DETAIL
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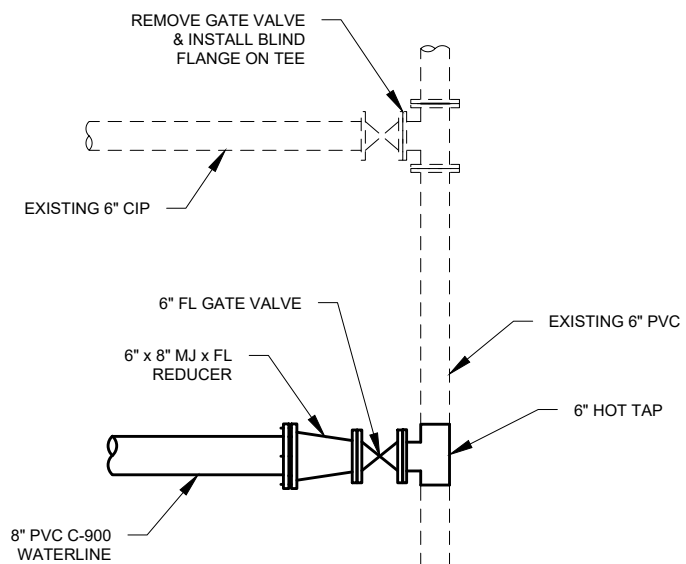
20 CONNECTION DETAIL
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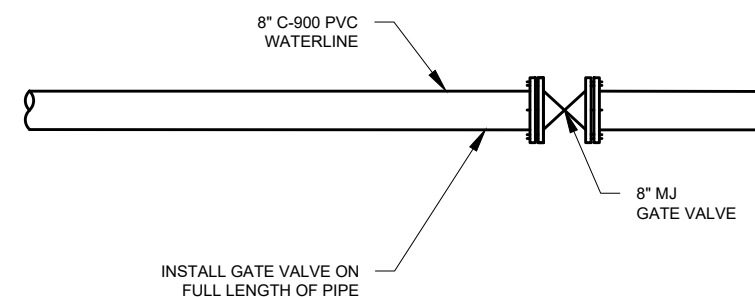
21 CONNECTION DETAIL
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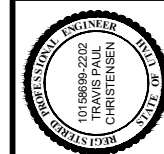
22 8" FIRELINE DETAIL
SCALE: NTS



23 CONNECTION DETAIL
SCALE: NTS



24 CONNECTION DETAIL
SCALE: NTS



LINE IS 1/8" INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/1/19

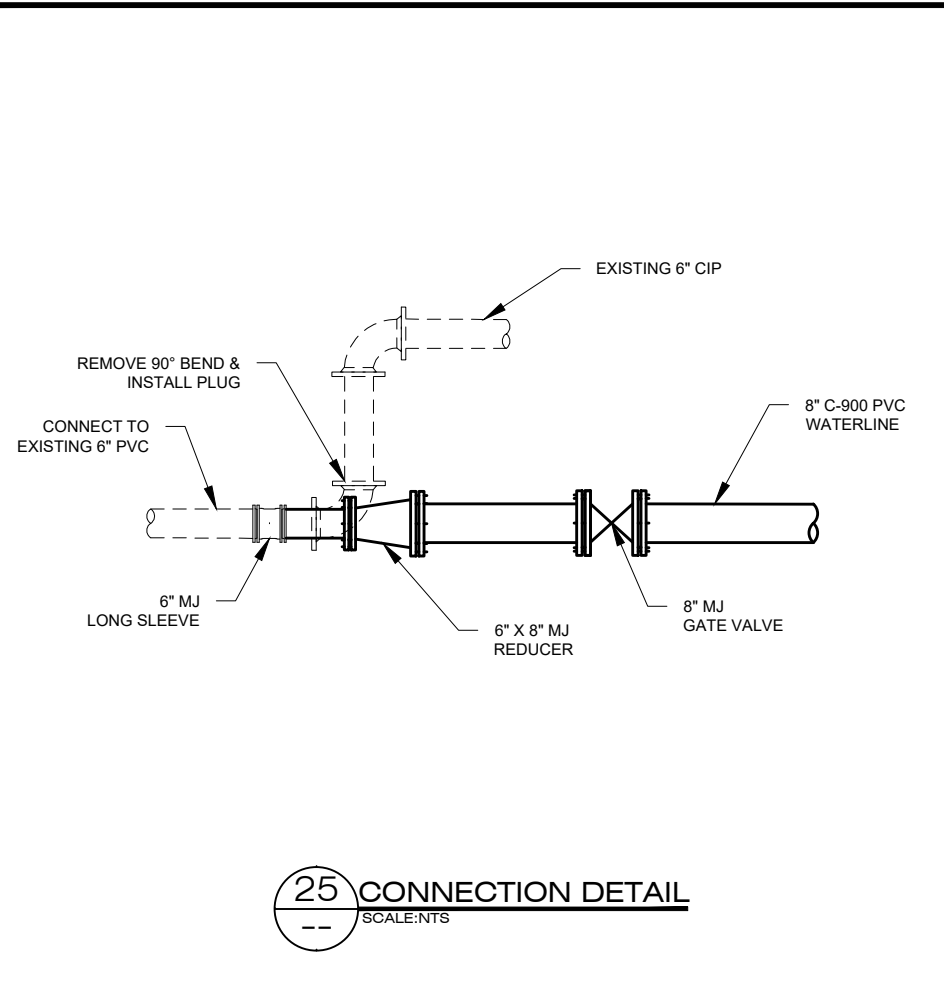
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
PIPE DETAILS

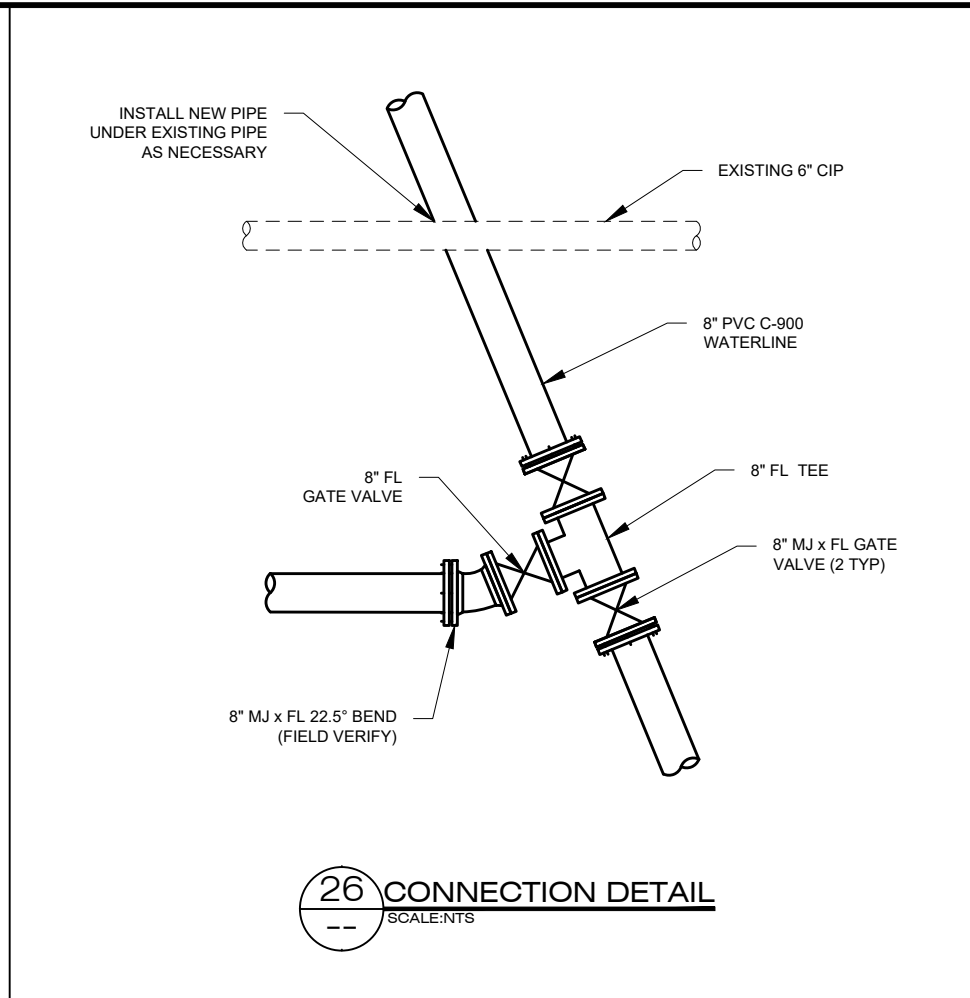
PROJECT NUMBER
4110

DRAWING NUMBER
D-4

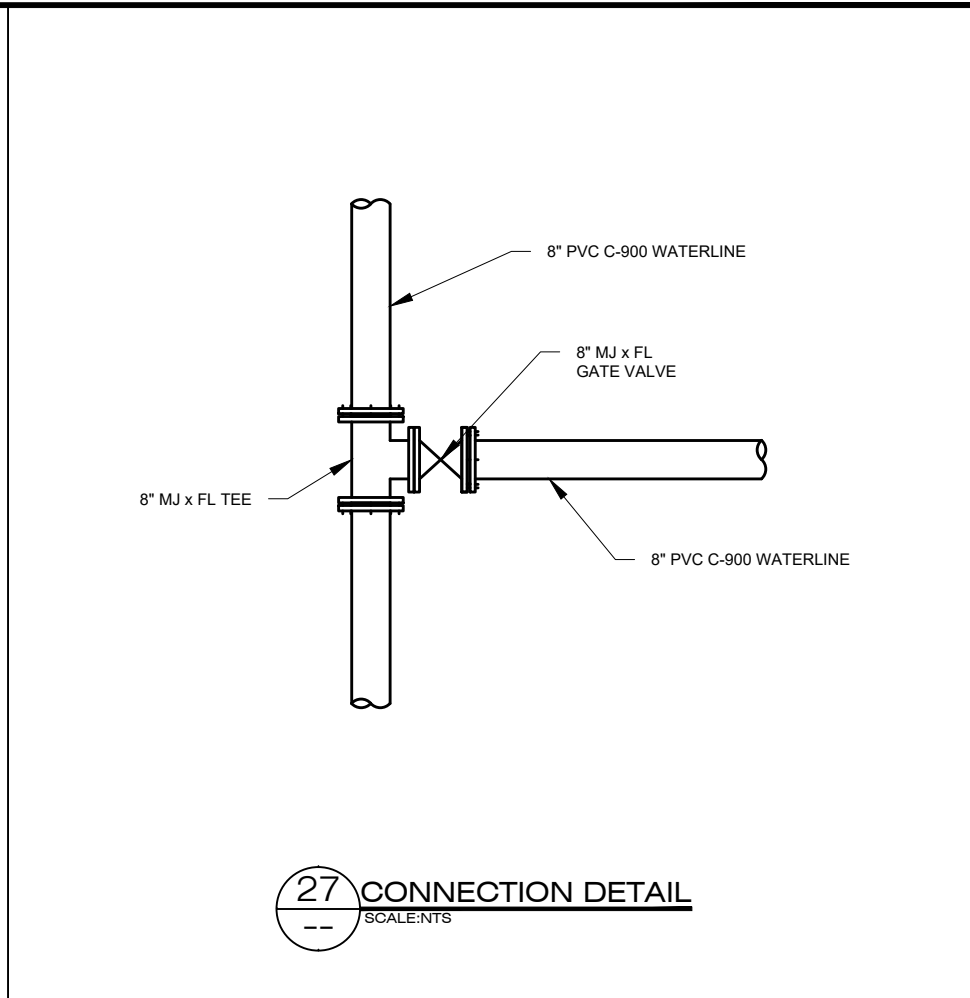
SHEET NUMBER
37 OF 41



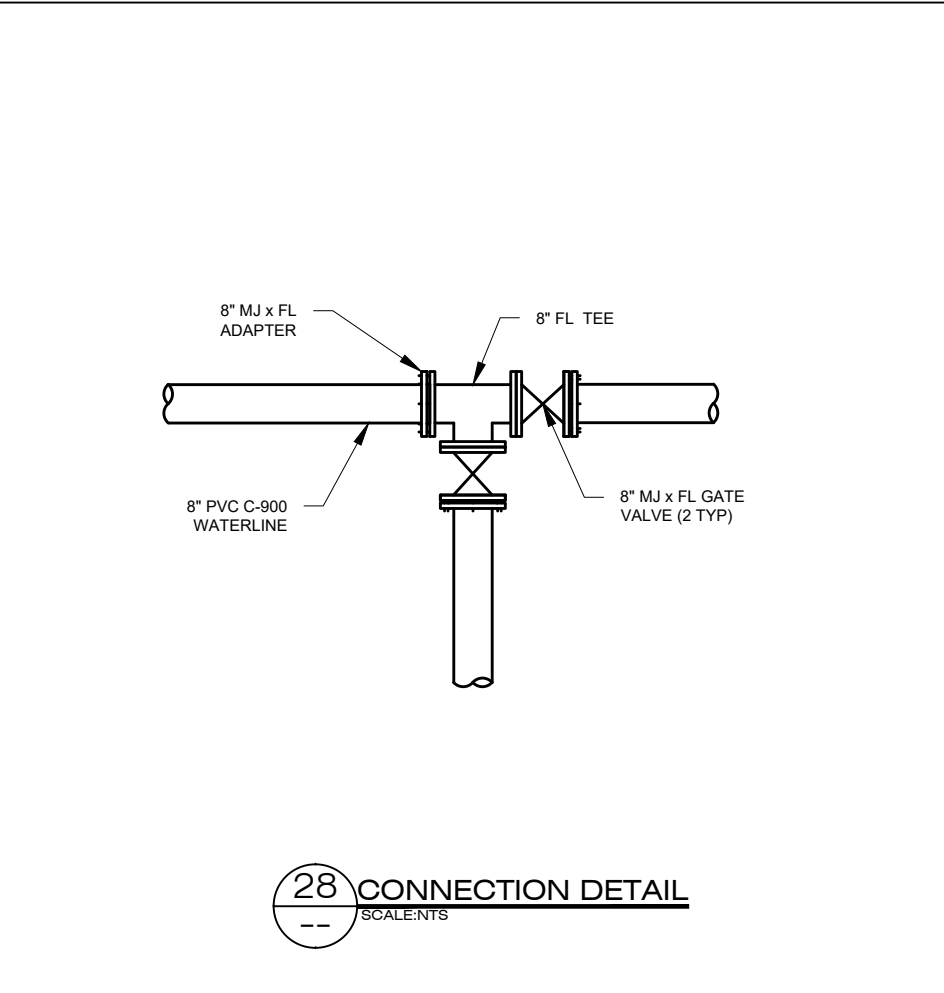
25 CONNECTION DETAIL
SCALE:NTS



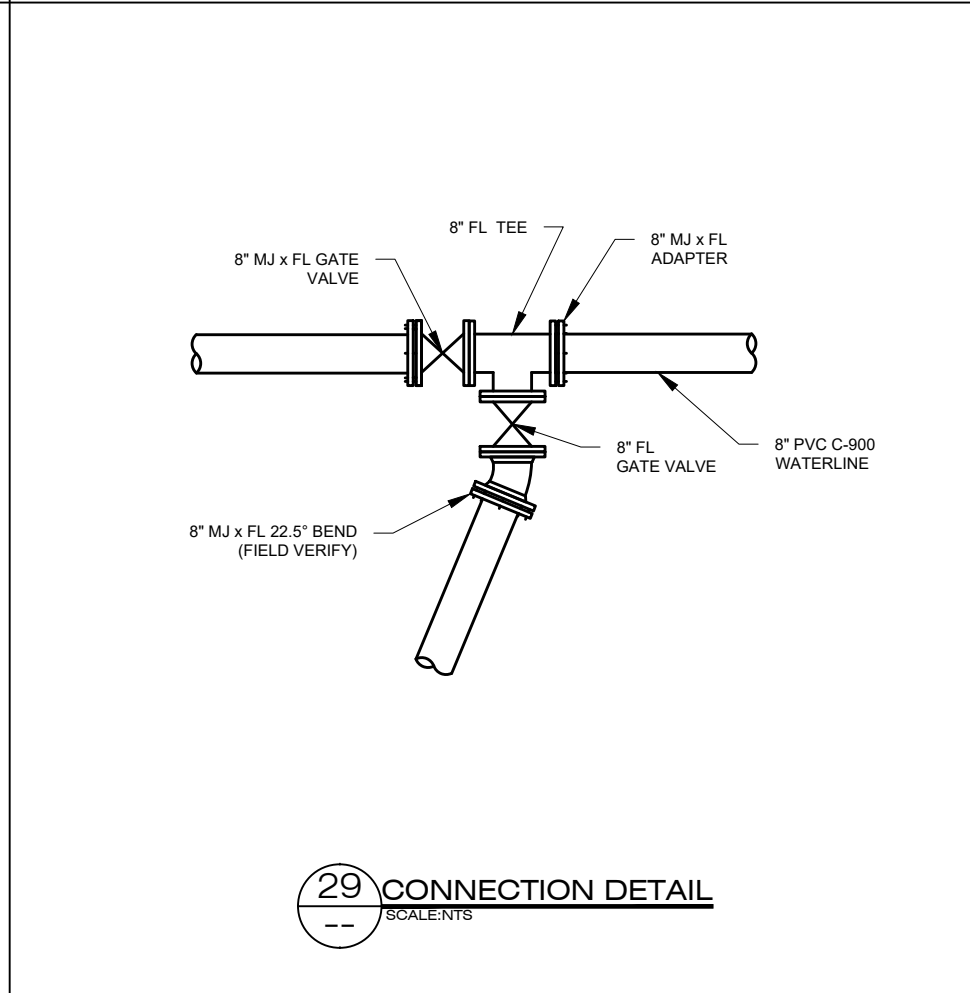
26 CONNECTION DETAIL
SCALE:NTS



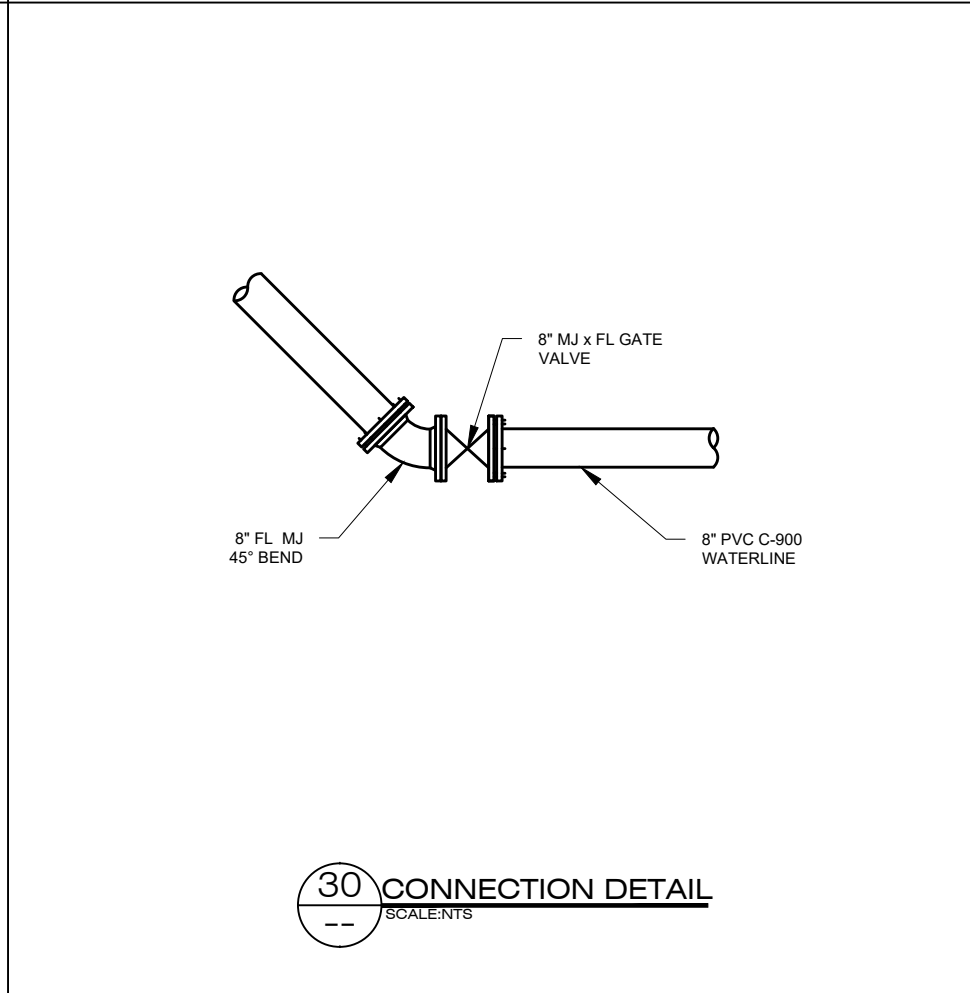
27 CONNECTION DETAIL
SCALE:NTS



28 CONNECTION DETAIL
SCALE:NTS



29 CONNECTION DETAIL
SCALE:NTS



30 CONNECTION DETAIL
SCALE:NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

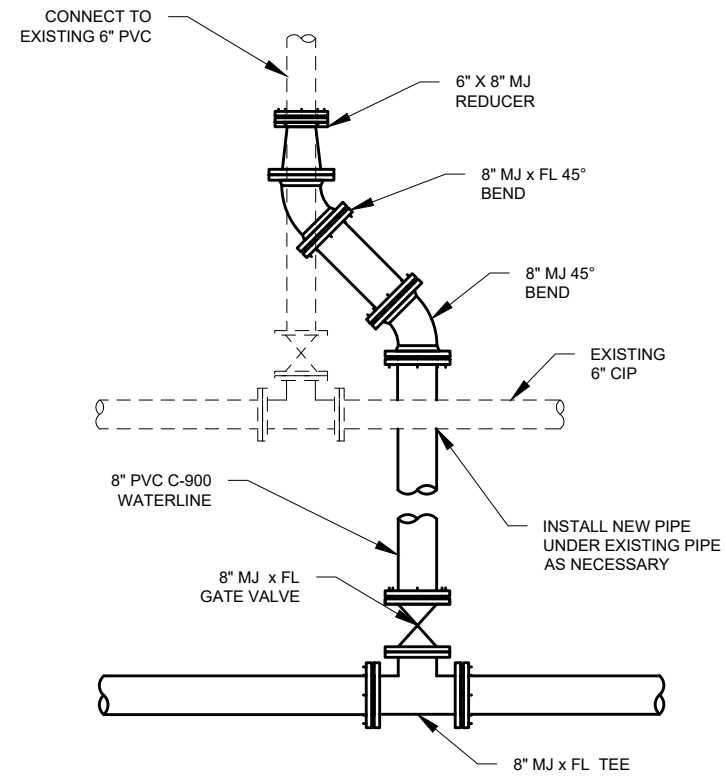
PROFESSIONAL ENGINEER
 10158699-2022
 TRAVIS PAUL CHRISTENSEN
 UTAH

LINE IS 1/8" INCH
 AT 11X17 SIZE SHEET

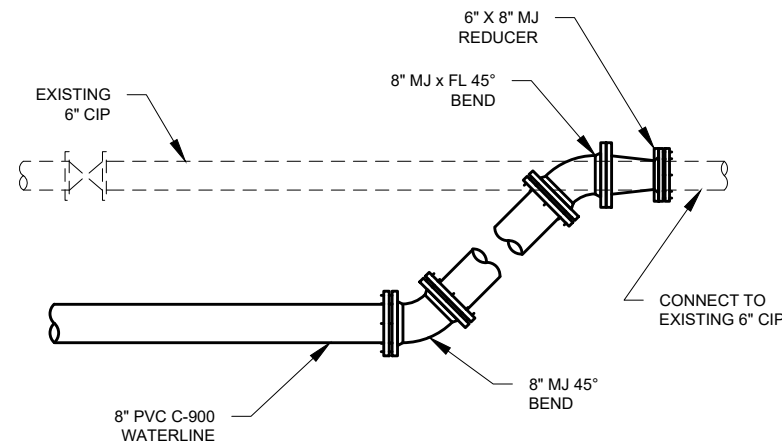
DESIGN: KEVIN RUBOW
 DRAFTER: TODD PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 2/1/19

Jordan Valley Water
 Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

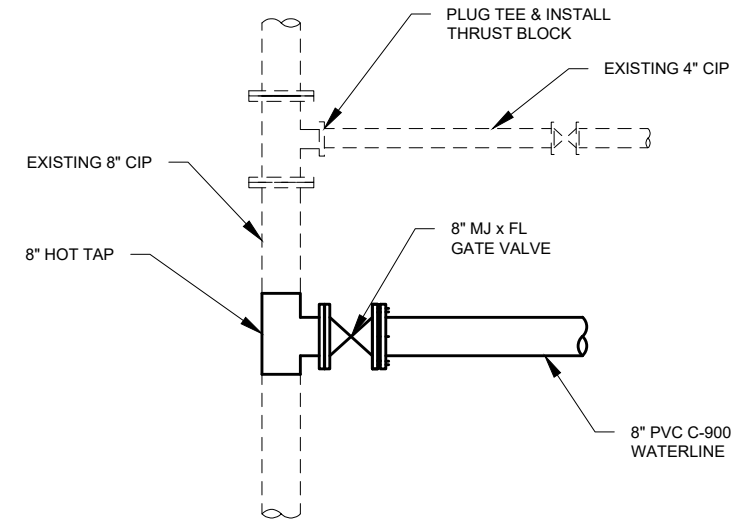
2019 PIPELINE REPLACEMENTS
 PIPE DETAILS
 PROJECT NUMBER
4110
 DRAWING NUMBER
D-5
 SHEET NUMBER
38 OF 41



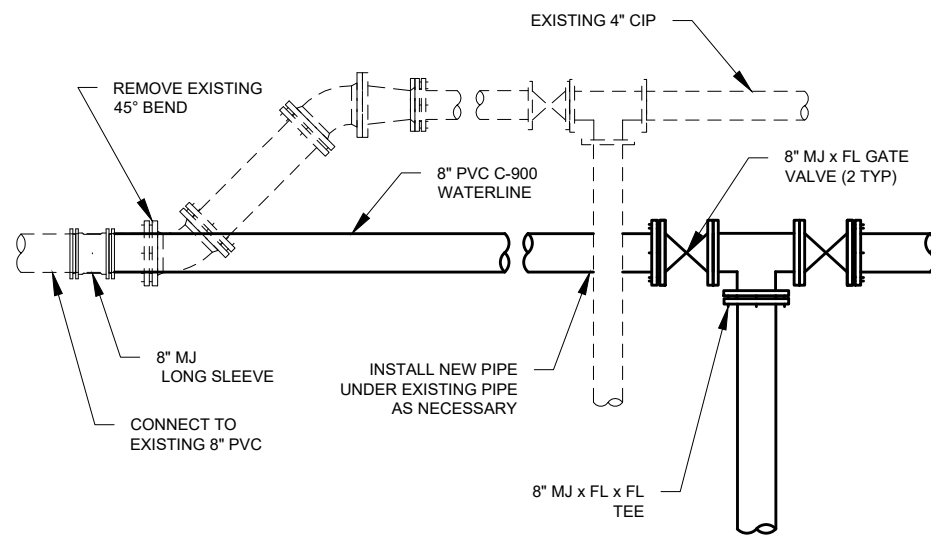
31 CONNECTION DETAIL
SCALE: NTS



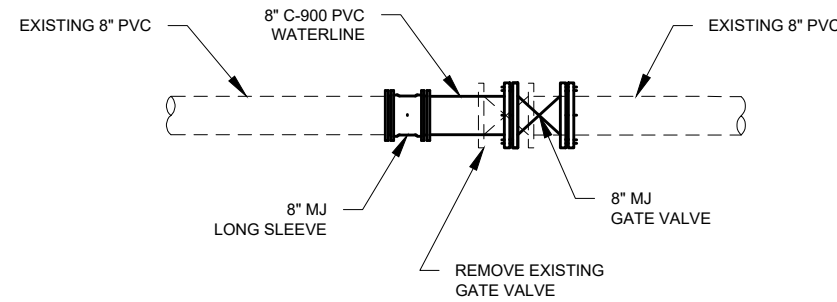
32 CONNECTION DETAIL
SCALE: NTS



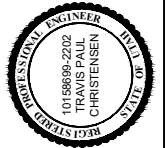
33 CONNECTION DETAIL
SCALE: NTS



34 CONNECTION DETAIL
SCALE: NTS



35 CONNECTION DETAIL
SCALE: NTS



LINE IS 1/8" INCH
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/11/19

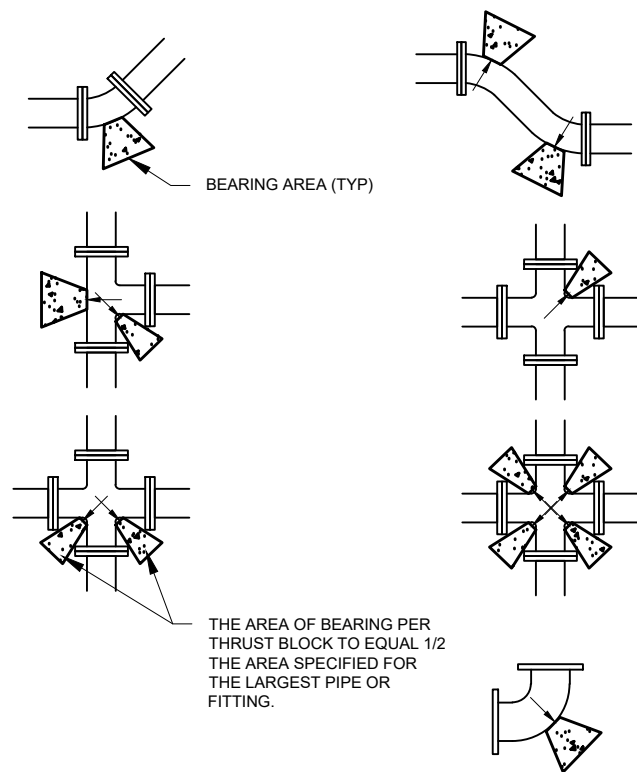
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

2019 PIPELINE REPLACEMENTS
PIPE DETAILS

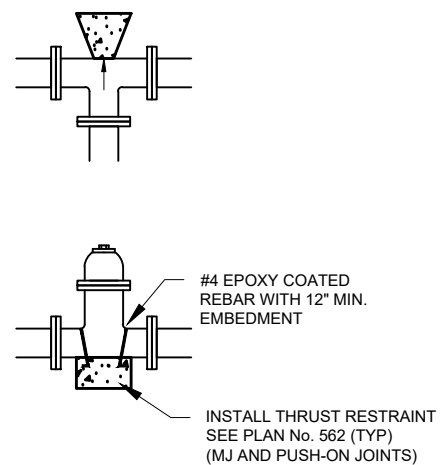
PROJECT NUMBER
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DRAWING NUMBER
D-6

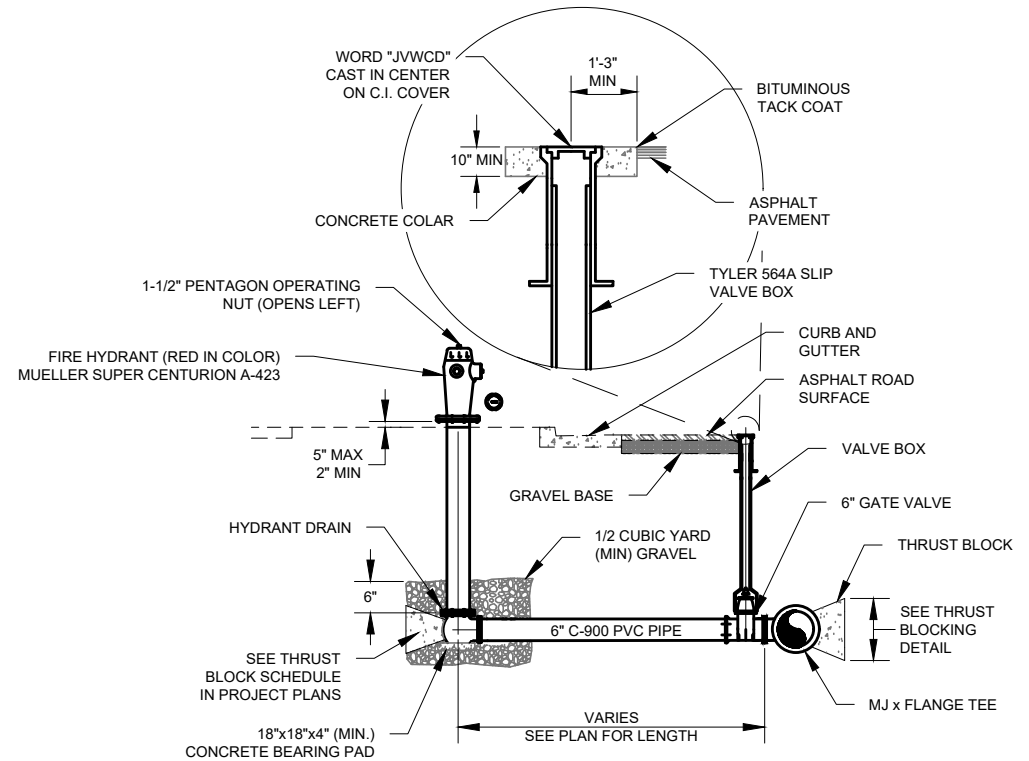
SHEET NUMBER
39 OF 41



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.

B FIRE HYDRANT DETAIL - INLINE
SCALE: NTS

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

STAINLESS STEEL TYPE 304 TIE DOWN (TYP.)

TYPE 'B' RESTRAINT
FOR 45° VERTICAL BENDS

STAINLESS STEEL TYPE 304 TIE DOWN (TYP.)

TABLE OF DIMENSIONS				
PIPE SIZE NOMIN. DIAMETER - INCH	VB	S	d	L
4"	11.25°	8	2.0	5/8"
	22.5°	15.6	2.5	5/8"
6"	11.25°	15.6	2.5	5/8"
	22.5°	34.3	3.25	5/8"
8"	11.25°	27	3.0	5/8"
	22.5°	64	4.0	5/8"
10"	11.25°	45.5	3.5	3/4"
	22.5°	94.5	4.5	3/4"
12"	11.25°	64	4.0	3/4"
	22.5°	125	5.0	3/4"
14"	11.25°	86	4.4	3/4"
	22.5°	171	5.6	3/4"
16"	11.25°	107	4.25	7/8"
	22.5°	216	6.0	7/8"

TABLE OF DIMENSIONS				
PIPE SIZE NOMIN. DIAMETER - INCH	VB	S	d	L
4"	45°	1	3.0	5/8"
				2.0
6"	45°	2.37	4.0	5/8"
				2.5
8"	45°	3.97	4.75	5/8"
				2.0
10"	45°	6.51	5.50	5/8"
				3.0
12"	45°	9.04	6.25	5/8"
				4.0
14"	45°	12.70	7.00	5/8"
				4.0
16"	45°	17.24	7.75	3/4"
				4.0

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

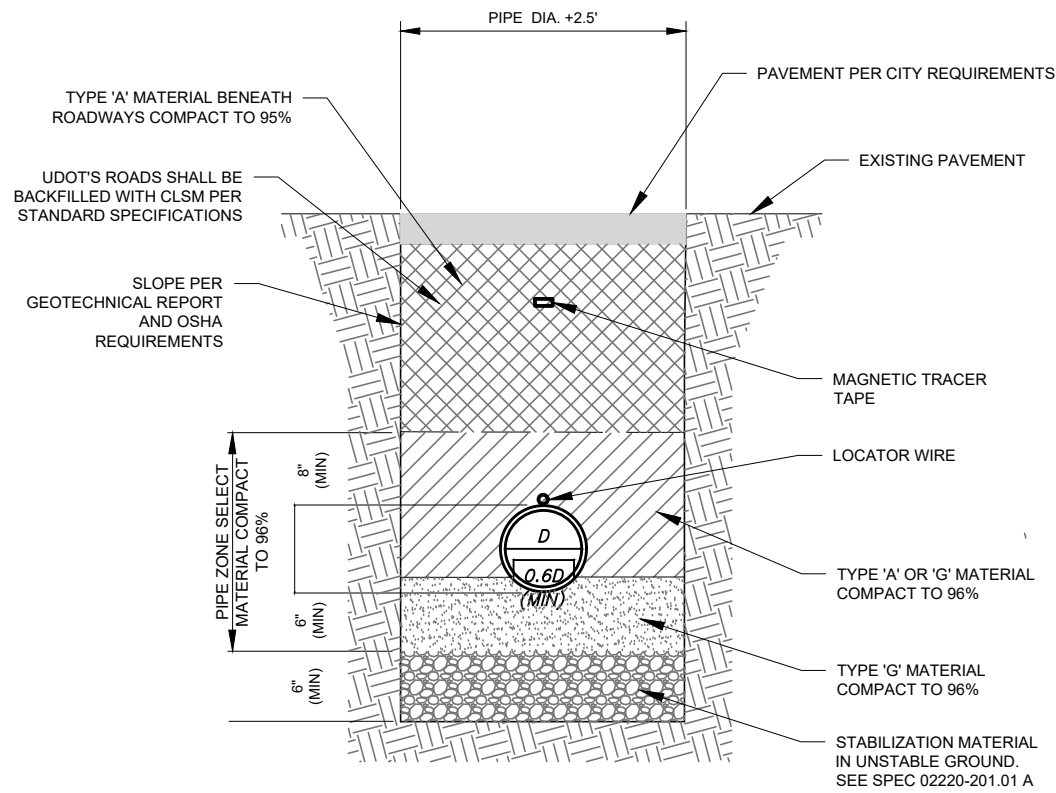
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 2/11/19

Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84088
PHONE (801) 565-4300

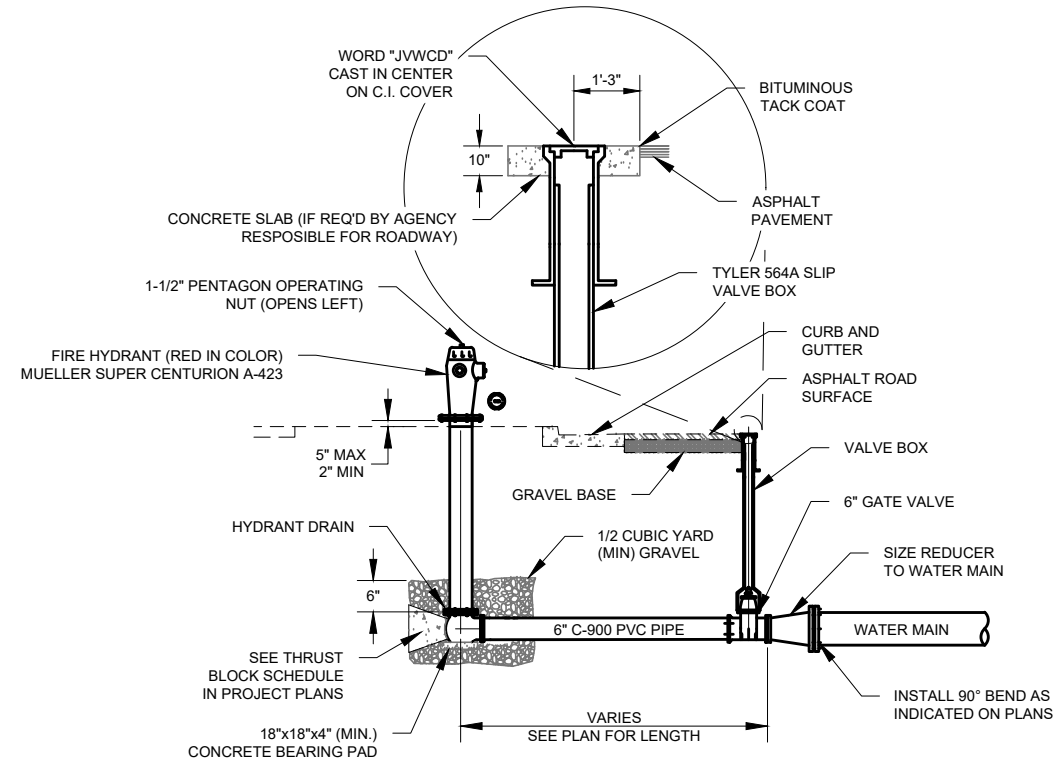
2019 PIPELINE REPLACEMENTS

Pipe Details

PROJECT NUMBER: 4110
DRAWING NUMBER: D-7
SHEET NUMBER: 40 OF 41

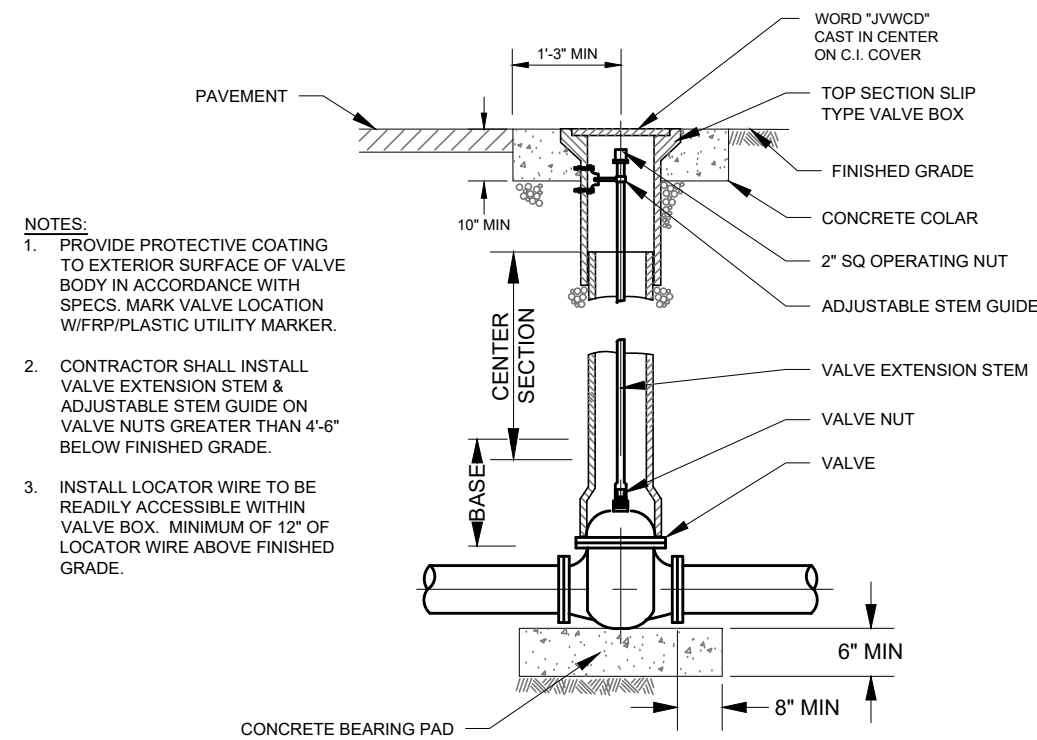


D PIPE TRENCH SECTION
SCALE: NTS



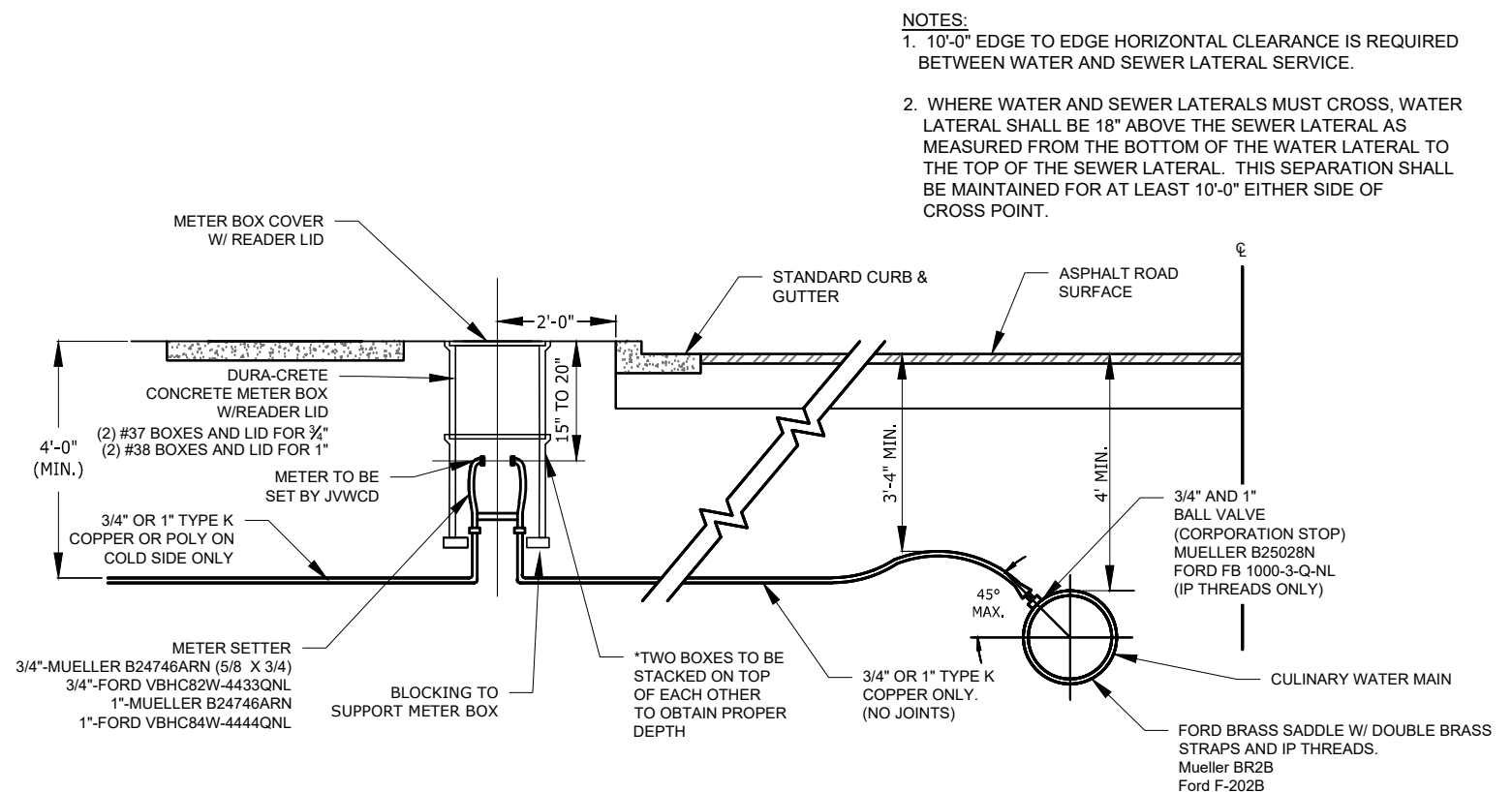
E FIRE HYDRANT DETAIL - END OF LINE
SCALE: NTS

- NOTES:**
- 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.
 - 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.



- NOTES:**
- PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS. MARK VALVE LOCATION W/FRP/PLASTIC UTILITY MARKER.
 - CONTRACTOR SHALL INSTALL VALVE EXTENSION STEM & ADJUSTABLE STEM GUIDE ON VALVE NUTS GREATER THAN 4'-6" BELOW FINISHED GRADE.
 - 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



G TYPICAL WATER SERVICE LINE DETAIL
SCALE: NTS

- NOTES:**
- 10'-0" EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER LATERAL SERVICE.
 - 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.

DATE	APP
BY	APP
DESCRIPTION	
ZONE	REV
LINE IS 1 INCH	DATE: 2/1/19
AT 11X17 SIZE SHEET	
DESIGN: KEVIN RUBOW	
DRAFTER: TODD PETERSON	
PROJ. MGR: KEVIN RUBOW	
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300	
2019 PIPELINE REPLACEMENTS Pipe Details	
PROJECT NUMBER	4110
DRAWING NUMBER	D-8
SHEET NUMBER	41 OF 41

I:\PIPELINE\DISTRIBUTION SYSTEM\4110_2019 PIPELINE REPLACEMENTS\2_ENGINEERING\DWGS\PIPE DETAILS\4110_PIPE DETAILS.DWG 3/02/19