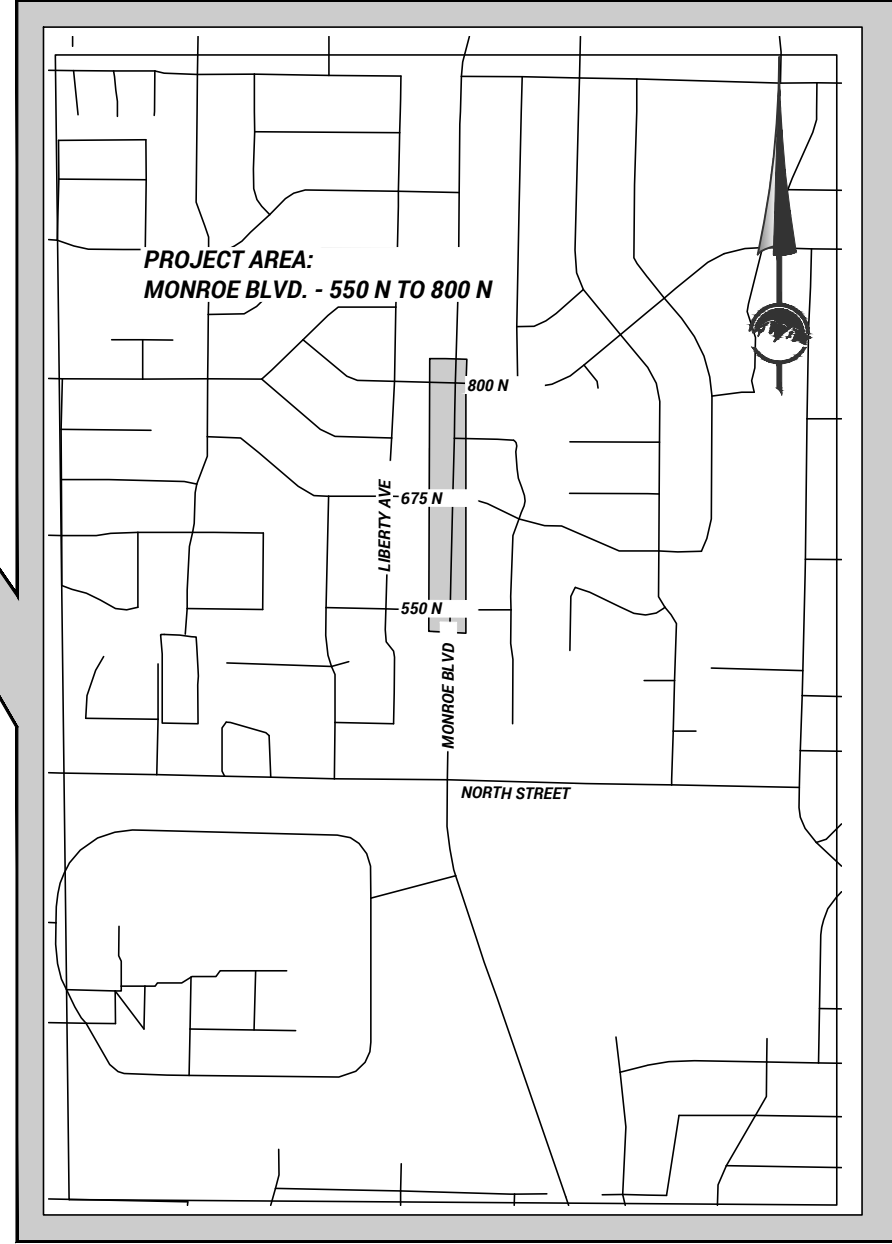
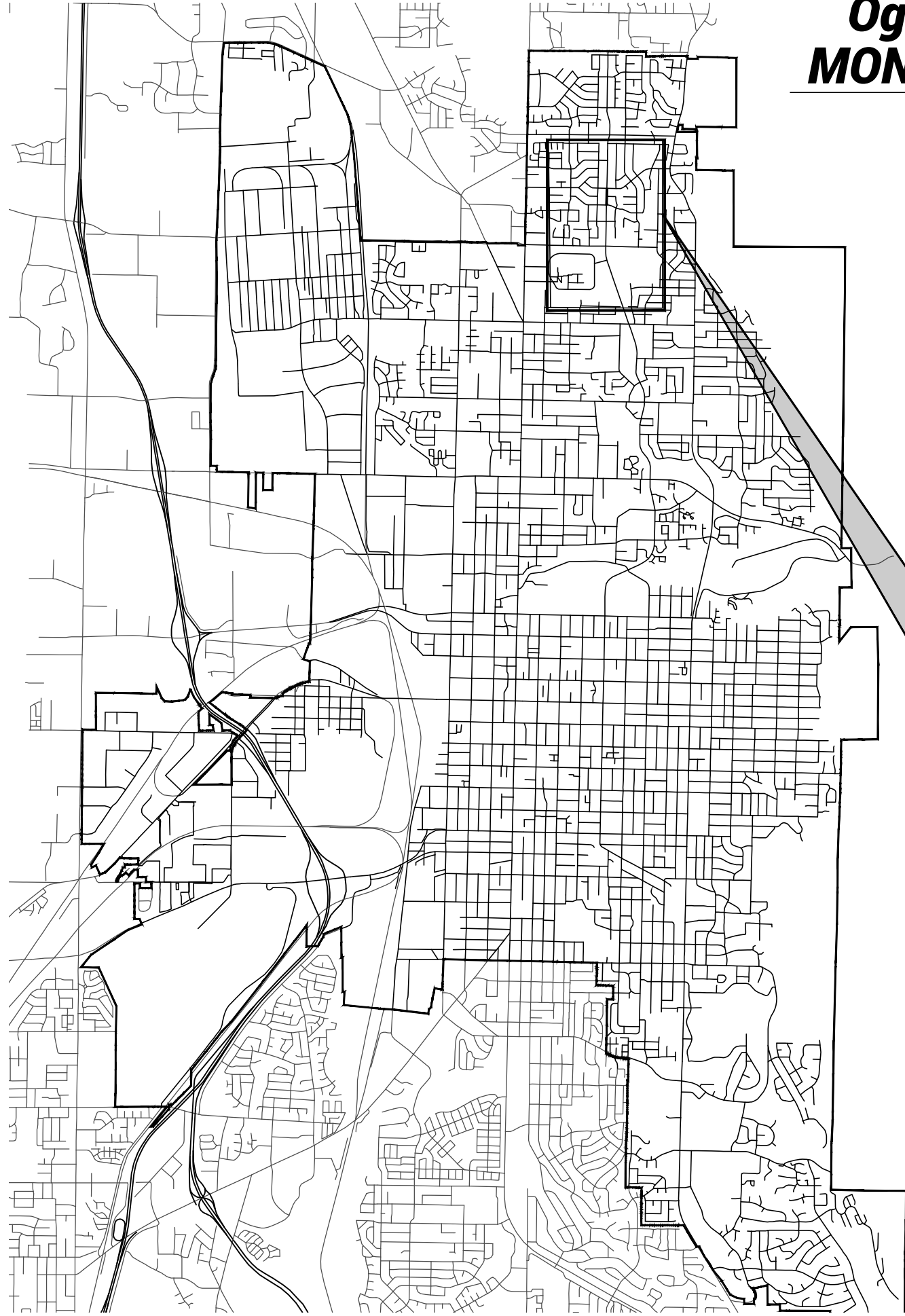


Ogden City Engineering

MONROE WATER LINE PH I

550 N TO 800 N



SHEET INDEX

1	G1	TITLESHEET
2	SC1	SURVEY CONTROL
3	W1	WATER LINE PLAN & PROFILE
4	W2	WATER LINE PLAN & PROFILE
5	W3	WATER LINE PLAN & PROFILE
6	SD1	STORM DRAIN PLAN & PROFILE
7	RD1	ROADWAY PLAN & PROFILE
8	RD2	ROADWAY PLAN & PROFILE
9	RD3	ROADWAY PLAN & PROFILE
10	DT1	DETAILS
11	DT2	DETAILS

G1

SHEET **7** REVISION **0**

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE	6/1/2023
DRAWN	B/M		
CHECKED	TDN		

DRAWING SCALE
 H: NONE (22x34)
 V: NONE (11x17)

This bar measures the original drawing

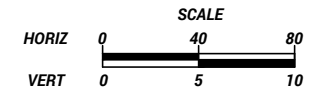
TITLESHEET

MONROE WATER LINE PH I

550 N TO 800 N

DRAWING NAME: G-1_Titlesheet_Monroe.dwg
 PLOT DATE: 6/21/2023 3:12 PM

Ogden UTAH Still Untamed™
 2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogdencity.com



NOTES:

1. THE HORIZONTAL DATUM TO BE USED IS THE NAD 83 STATE PLANE UTAH NORTH ZONE GRID
2. THE VERTICAL DATUM TO BE USED IS NAVD 88 USING GEOID 12A.
3. COORDINATE SETTING ALL MONUMENTS FOR THE PROJECT WITH THE CITY SURVEYOR STEVE PORTER 801-629-8979

SC1

SHEET **2** OF **0**

REVISION

REV	DATE	DESCRIPTION
0		MURPHY DESCRIPTION



DESIGNED	B/M	DATE
DRAWN	B/M	5/19/2023
CHECKED	TDN	

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 40' (11x17)
 V: 1" = 5' (22x34)
 V: 1" = 10' (11x17)

This bar measures the original drawing.

SURVEY CONTROL

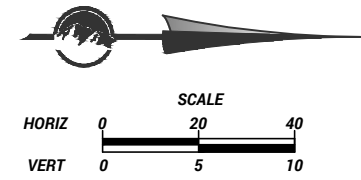
MONROE WATER LINE PH I

550 N TO 800 N

DRAWING NAME: SC1_Survey Control Monroe.dwg

PLOT DATE: 6/21/2023 3:12 PM

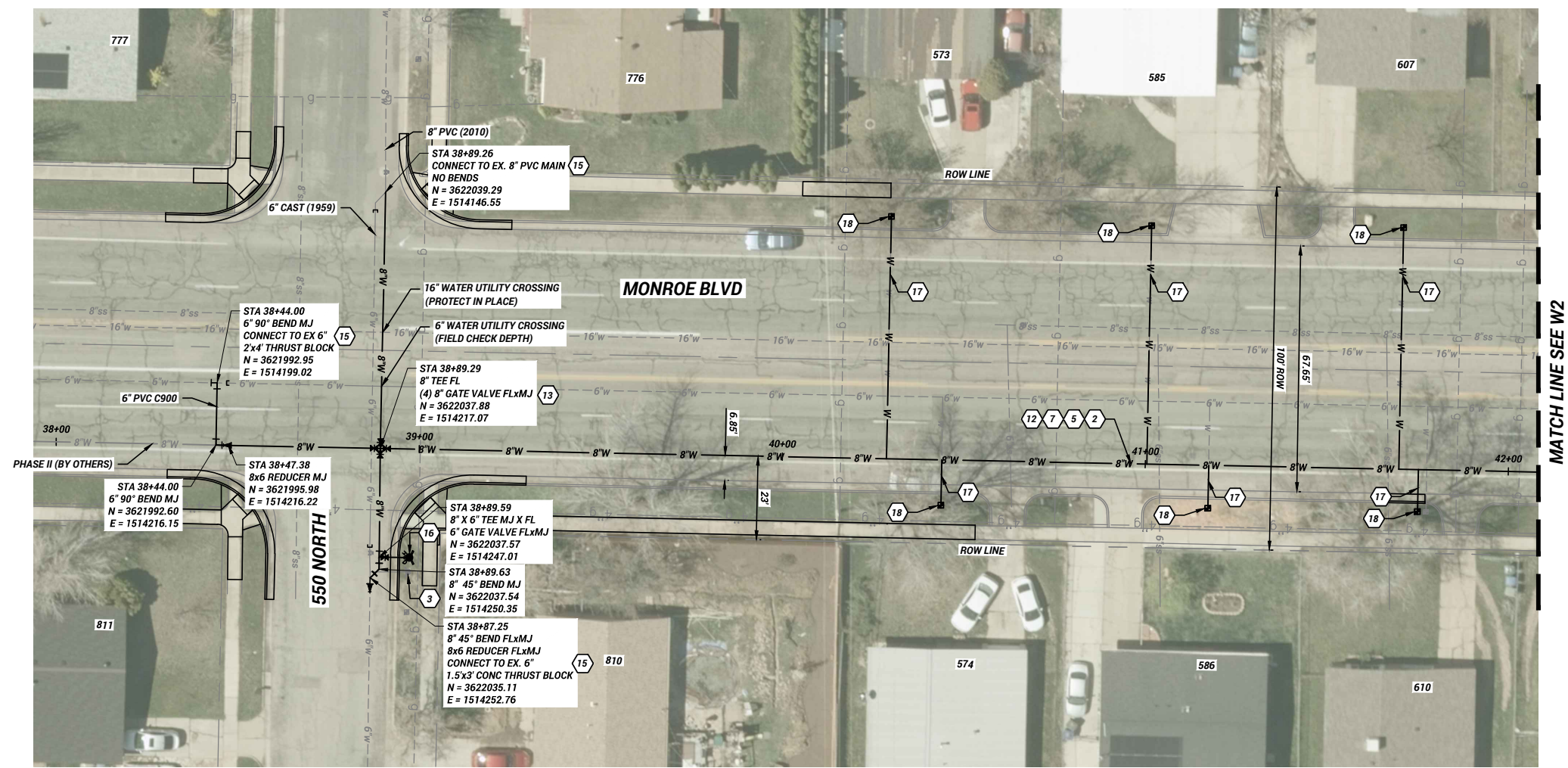
2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogdencity.com



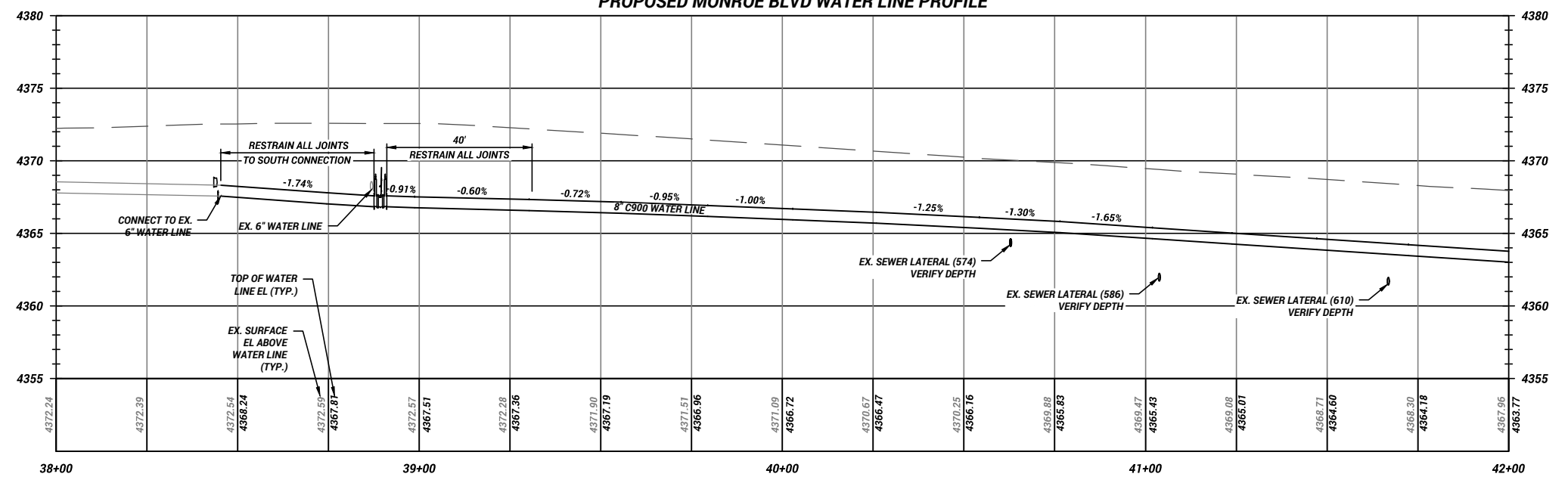
- KEYED NOTES:**
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - 2 REMOVE ASPHALT PAVEMENT
 - 3 REMOVE FIRE HYDRANT ASSEMBLY. SALVAGE OLD FIRE HYDRANT TO OGDEN CITY WATER DEPARTMENT UPON REQUEST.
 - 4 REMOVE VALVE BOX.
 - 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2
 - 7 HMA T-PATCH PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
 - 12 8" PVC C900 DR-18 WATER LINE
 - 13 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 14 6" PVC C900 DR-18 WATER LINE
 - 15 EXISTING WATER MAIN CONNECTION
 - 16 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 17 1" AWWA C901 CTS POLY SERVICE LINE
 - 18 1" WATER METER ASSEMBLY PER OGDEN CITY STDS

- NOTES:**
1. ALL EXISTING SEWER LATERALS CROSSING THE PROPOSED WATER MAIN SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
 2. RESTRAIN ALL PIPE JOINTS IN THE EAST/WEST DIRECTION AT LEAST 40 FT IN EACH DIRECTION FROM THE CROSS AT THE 550 NORTH CROSS.
- 3. EXISTING SERVICE LINE INFORMATION:**

 - 573 MONROE - 3/4" COPPER
 - 585 MONROE - 3/4" COPPER
 - 607 MONROE - 3/4" COPPER
 - 574 MONROE - 3/4" GALVANIZED
 - 586 MONROE - 3/4" GALVANIZED
 - 610 MONROE - 3/4" GALVANIZED

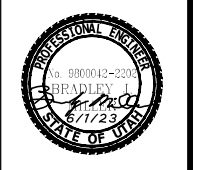


PROPOSED MONROE BLVD WATER LINE PROFILE



W1
SHEET **3** OF **0**
REVISION

REV	DATE	DESCRIPTION
1	06/27/23	ADDENDUM 1 PLAN SET CHANGES



DESIGNED	B/M	DATE
▲	▲	4/28/2023

DRAWN	B/M	DATE
▲	▲	4/28/2023

CHECKED	TDN	DATE
▲	▲	4/28/2023

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 40' (11x17)
 V: 1" = 5' (22x34)
 V: 1" = 10' (11x17)

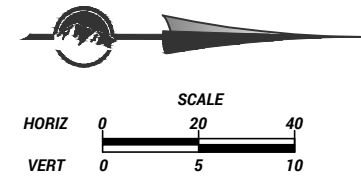
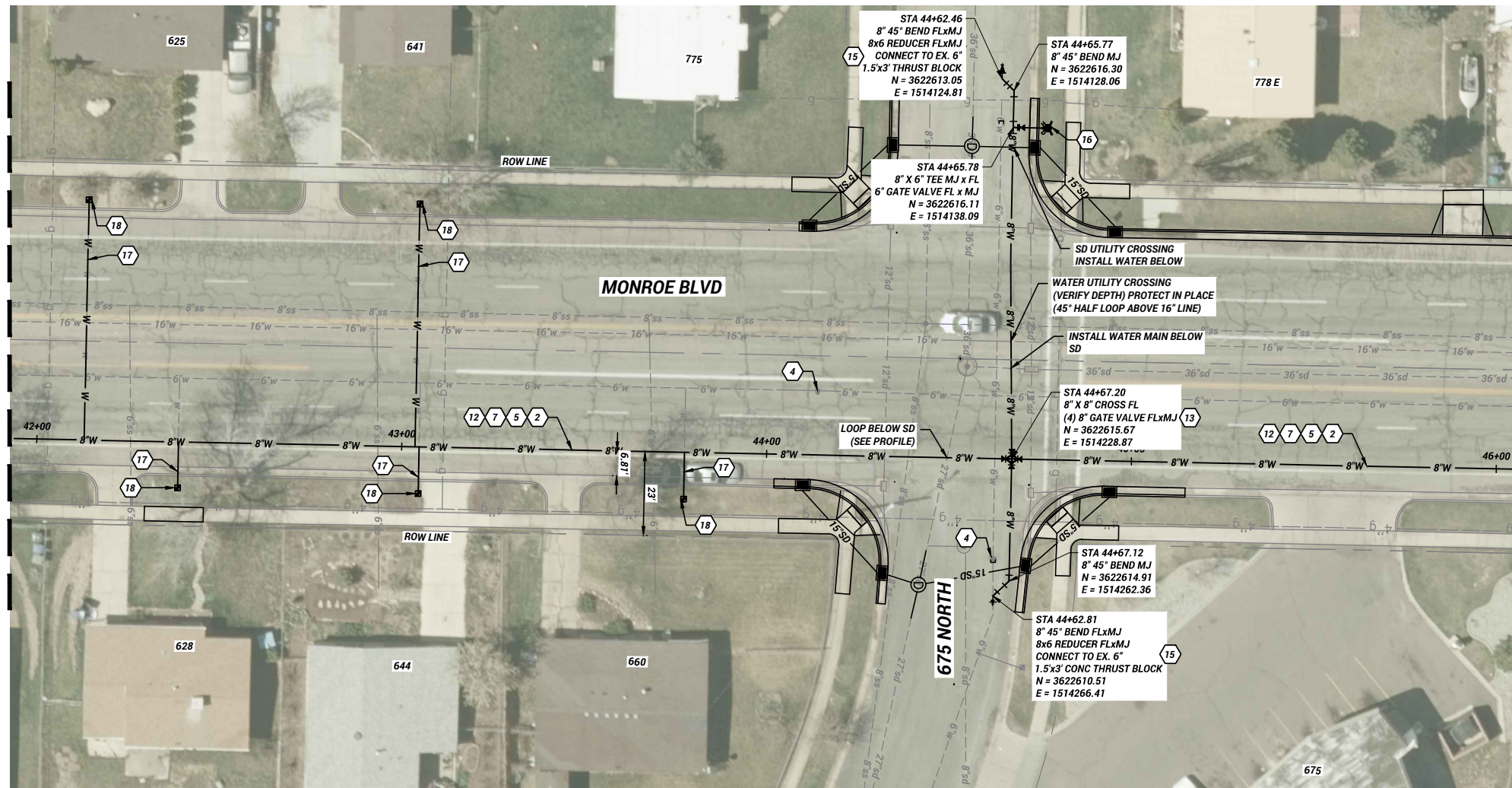
WATER LINE PLAN & PROFILE
MONROE WATER LINE PH I
 550 N TO 800 N

2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogdencity.com

PLOT DATE: 6/21/2023 3:13 PM
 DRAWING NAME: Monroe W1X.dwg

MATCH LINE SEE W1

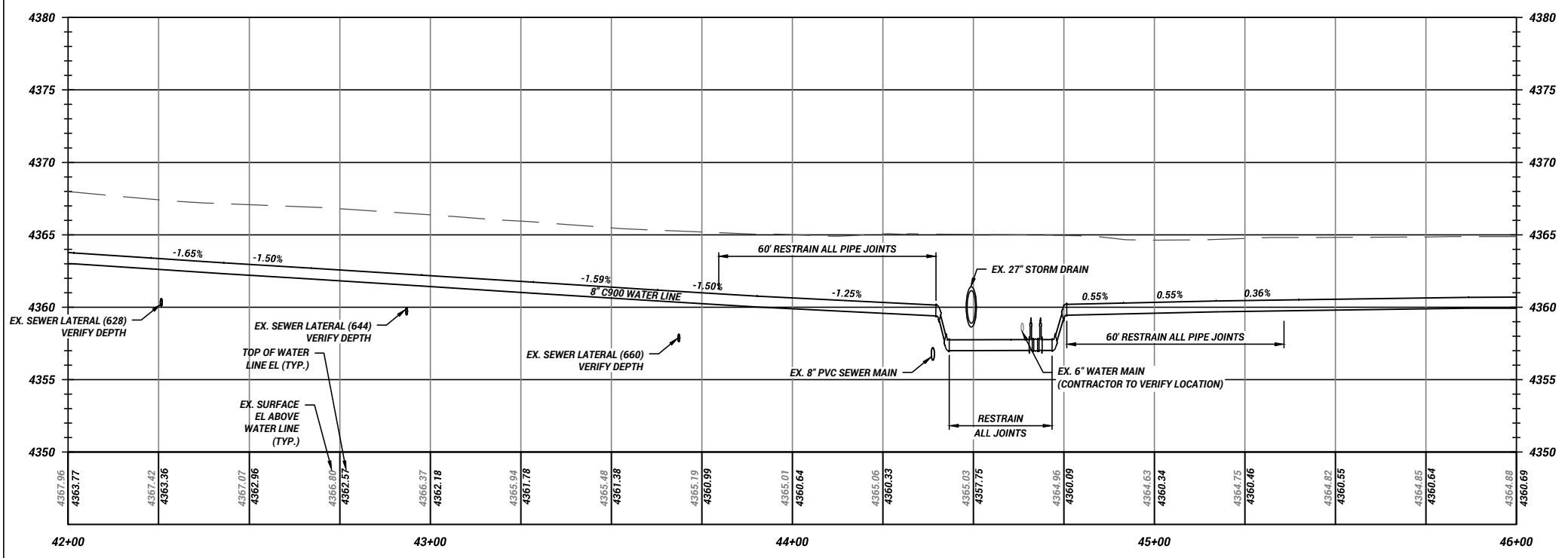
MATCH LINE SEE W3



KEYED NOTES:

- 1 REMOVE AND REPLACE 30', TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
- 2 REMOVE ASPHALT PAVEMENT
- 3 REMOVE FIRE HYDRANT ASSEMBLY. SALVAGE OLD FIRE HYDRANT TO OGDEN CITY WATER DEPARTMENT UPON REQUEST.
- 4 REMOVE VALVE BOX.
- 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2
- 7 HMA T-PATCH PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
- 12 8" PVC C900 DR-18 WATER LINE
- 13 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
- 14 6" PVC C900 DR-18 WATER LINE
- 15 EXISTING WATER MAIN CONNECTION
- 16 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
- 17 1" AWWA C901 CTS POLY SERVICE LINE
- 18 1" WATER METER ASSEMBLY PER OGDEN CITY STDS

PROPOSED MONROE BLVD WATER LINE PROFILE



NOTES:

- 1. ALL EXISTING SEWER LATERALS CROSSING THE PROPOSED WATER MAIN SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
- 2. RESTRAIN ALL PIPE JOINTS IN THE EAST/WEST DIRECTION IN THE 675 NORTH INTERSECTION.
- 3. EXISTING SERVICE LINE INFORMATION:
 625 MONROE - 3/4" COPPER
 641 MONROE - 3/4" COPPER
 628 MONROE - 3/4" COPPER
 644 MONROE - 3/4" COPPER
 660 MONROE - 3/4" COPPER

WATER LINE PLAN & PROFILE
MONROE WATER LINE PH I
 550 N TO 800 N



2549 Washington Blvd, Suite 760 Ogdan, UT 84401
 Phone: 801-629-9990 engineering.ogdan.com

DESIGNED	B/M	DATE
DRAWN <td>B/M <td>6/21/2023</td> </td>	B/M <td>6/21/2023</td>	6/21/2023
CHECKED <td>T/DN <td></td> </td>	T/DN <td></td>	

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (11x17)
 1" = 10' (11x17)

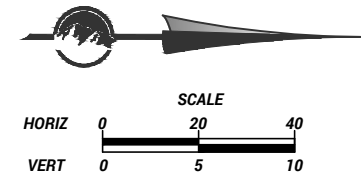
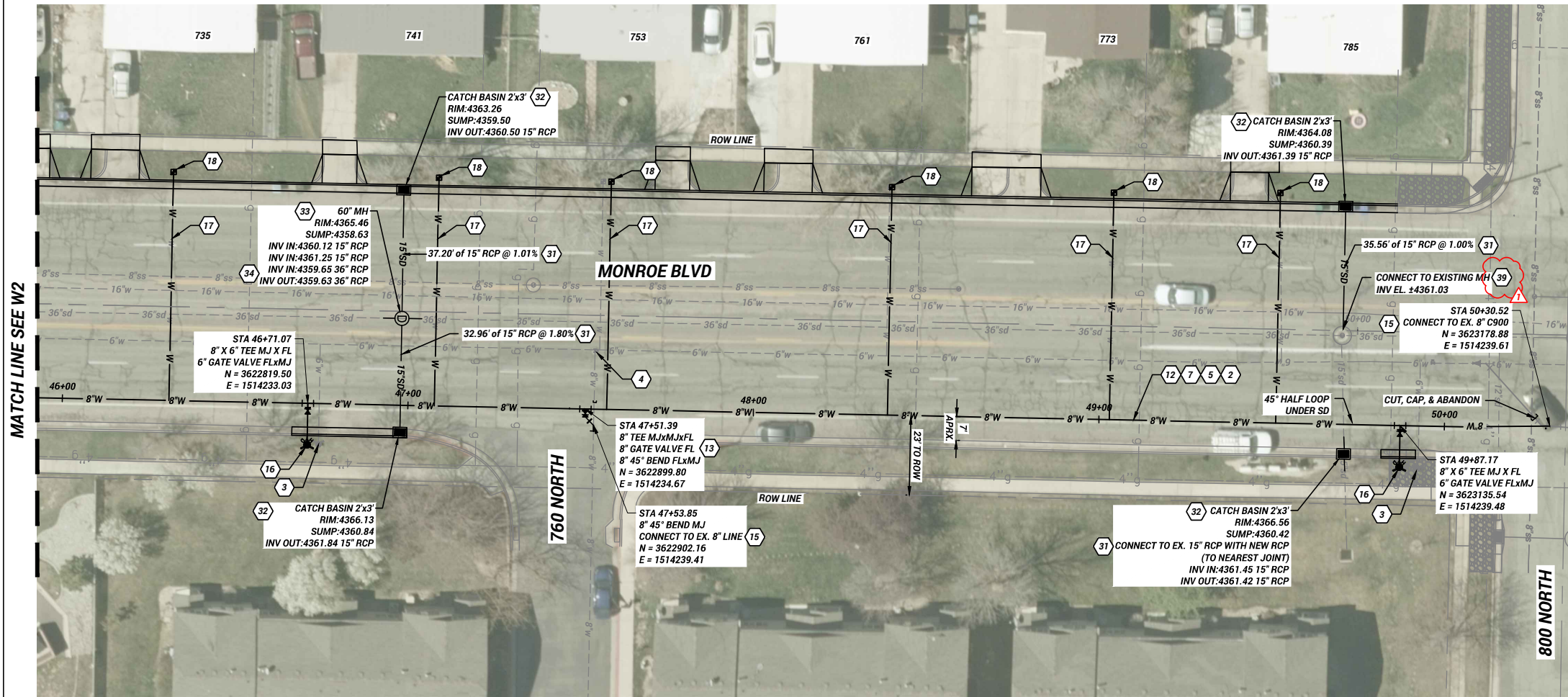


REV	DATE	DESCRIPTION
1	06/27/23	ADDENDUM 1 PLAN SET CHANGES

W2
 SHEET **4**
 REVISION **0**

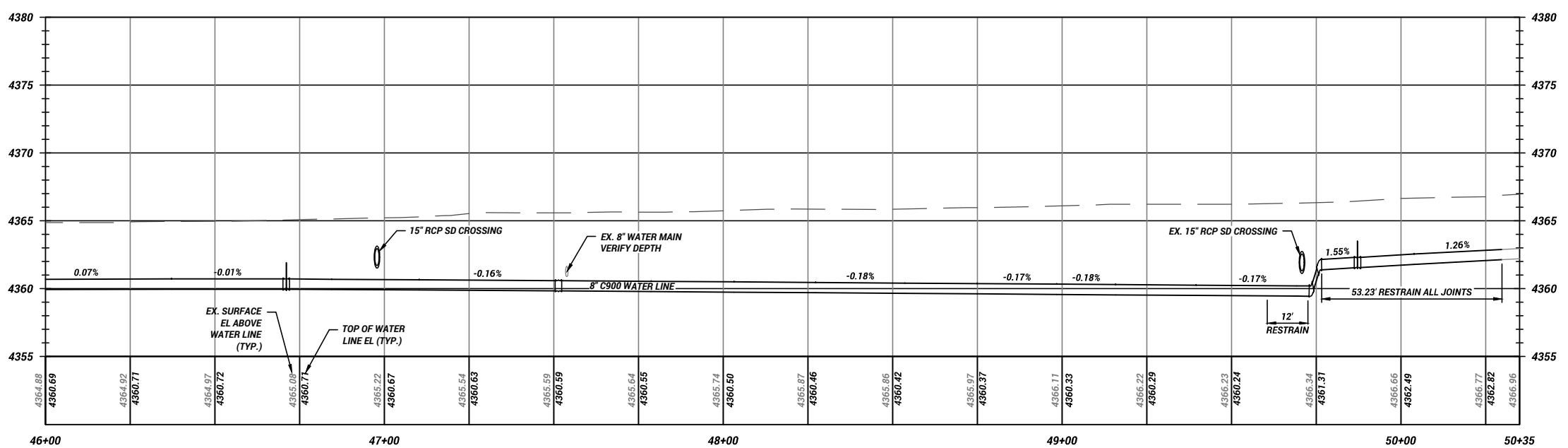
PLOT DATE: 6/21/2023 3:13 PM

DRAWING NAME: Monroe W1X.dwg



- KEYED NOTES:**
- REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - REMOVE ASPHALT PAVEMENT
 - REMOVE FIRE HYDRANT ASSEMBLY. SALVAGE OLD FIRE HYDRANT TO OGDEN CITY WATER DEPARTMENT UPON REQUEST.
 - REMOVE VALVE BOX.
 - ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2
 - HMA T-PATCH PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
 - 8" PVC C900 DR-18 WATER LINE
 - 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 6" PVC C900 DR-18 WATER LINE
 - EXISTING WATER MAIN CONNECTION
 - FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 1" AWWA C901 CTS POLY SERVICE LINE
 - 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 15" CLASS V RCP STORM DRAIN
 - 2x3' PRECAST CATCH BASIN WITH CURB INLET GRATE
 - 60" PRECAST STORM DRAIN MANHOLE
 - 36" CLASS III RCP STORM DRAIN (CONNECT TO EXISTING, TO THE NEAREST PIPE JOINT)
 - CONNECT TO EXISTING STORM DRAIN MANHOLE

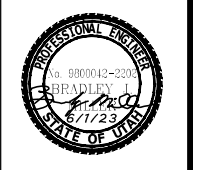
PROPOSED MONROE BLVD WATER LINE PROFILE



- NOTE:**
- EXISTING SERVICE LINE INFORMATION:
 735 MONROE - 3/4" GALVANIZED
 741 MONROE - 3/4" GALVANIZED
 753 MONROE - 3/4" GALVANIZED
 761 MONROE - 3/4" COPPER
 773 MONROE - 3/4" POLY
 785 MONROE - 3/4" COPPER

W3
 SHEET 5
 REVISION 0

REV	DATE	DESCRIPTION
1		



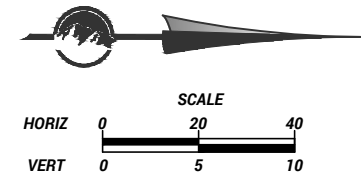
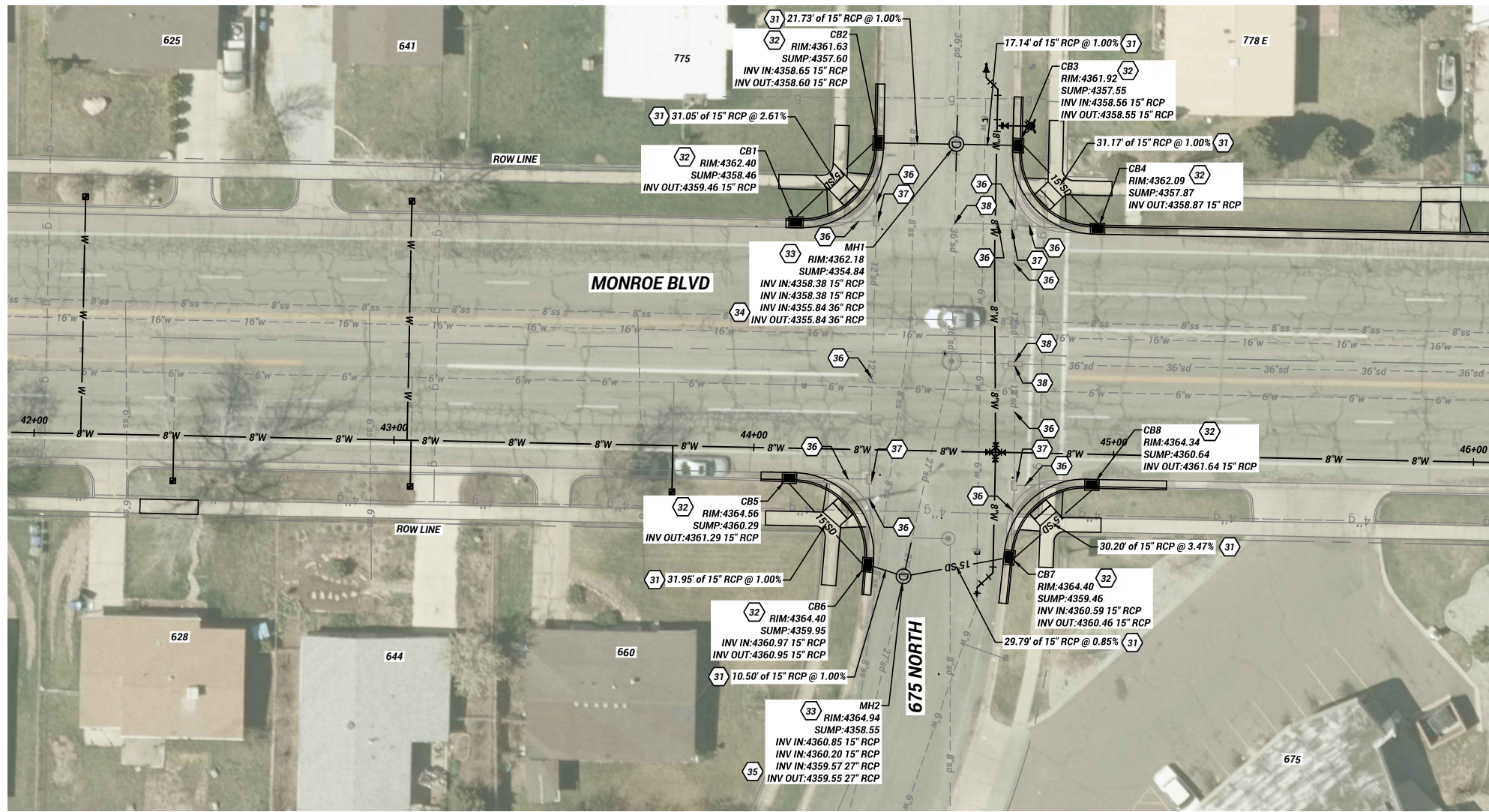
DESIGNED	B/M	DATE
		5/8/2023

DRAWN	B/M	CHECKED	T/DN

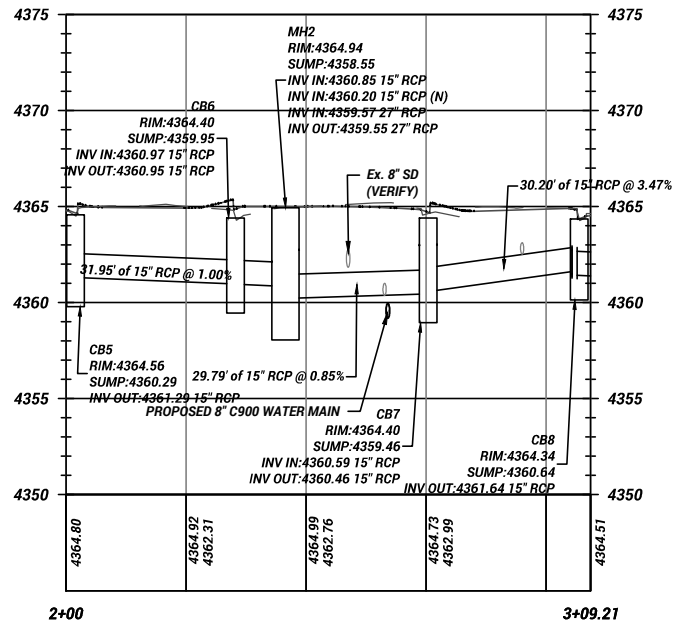
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (22x34)
 (11x17)
 (11x17)

WATER LINE PLAN & PROFILE
 MONROE WATER LINE PH I
 550 N TO 800 N
 PLOT DATE: 6/21/2023 3:13 PM
 DRAWING NAME: Monroe W1X.dwg

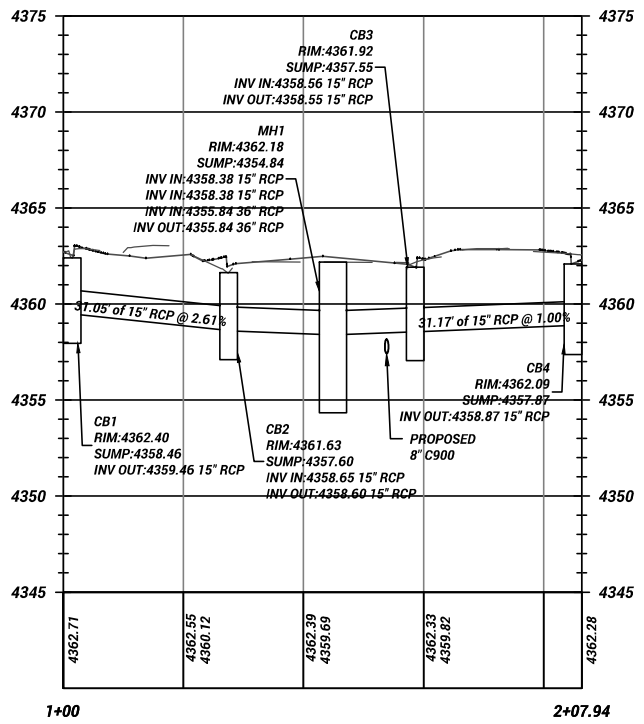




STORM DRAIN 675 (EAST SIDE)



STORM DRAIN 675 (WEST SIDE)



KEYED NOTES:

- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
- 2 REMOVE ASPHALT PAVEMENT
- 3 REMOVE FIRE HYDRANT ASSEMBLY. SALVAGE OLD FIRE HYDRANT TO OGDEN CITY WATER DEPARTMENT UPON REQUEST.
- 4 REMOVE VALVE BOX.
- 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2
- 7 HMA T-PATCH PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
- 12 8" PVC C900 DR-18 WATER LINE
- 13 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
- 14 6" PVC C900 DR-18 WATER LINE
- 15 EXISTING WATER MAIN CONNECTION
- 16 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
- 17 1" AWWA C901 CTS POLY SERVICE LINE
- 18 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
- 31 15" RCP STORM DRAIN CLASS V
- 32 PRECAST 2'x3' CATCH BASIN w/ CURB INLET
- 33 60" PRECAST STORM DRAIN MANHOLE
- 34 36" RCP STORM DRAIN CLASS III
- 35 27" RCP STORM DRAIN CLASS III
- 36 REMOVE STORM PIPE
- 37 REMOVE STORM JUNCTION BOX
- 38 PLUG/SEAL EXISTING STORM DRAIN CONNECTION

SD1
SHEET 6
REVISION 0

REV	DATE	DESCRIPTION
0		INITIAL



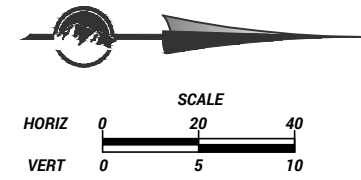
DESIGNED	B/M	DATE
		5/18/2023

DRAWN	B/M	DATE
		5/18/2023

CHECKED	T/DN	DATE
		5/18/2023

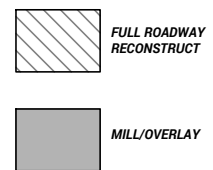
STORM DRAIN 675 N
MONROE WATER LINE PH I
550 N TO 800 N
PLOT DATE: 6/21/2023 3:13 PM
DRAWING NAME: Monroe SD1.dwg

Ogden UT
Still Untamed™
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogden-city.com

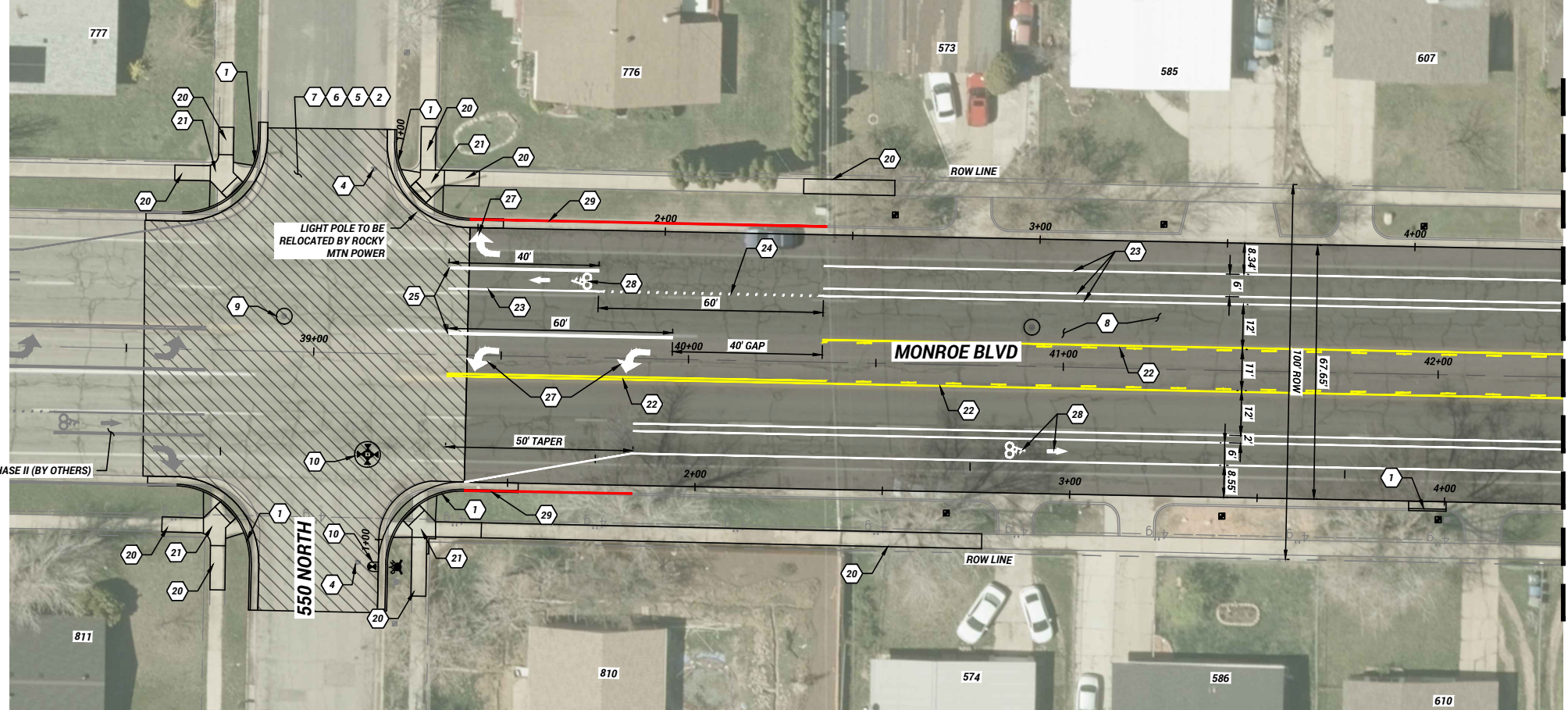


KEYED NOTES:

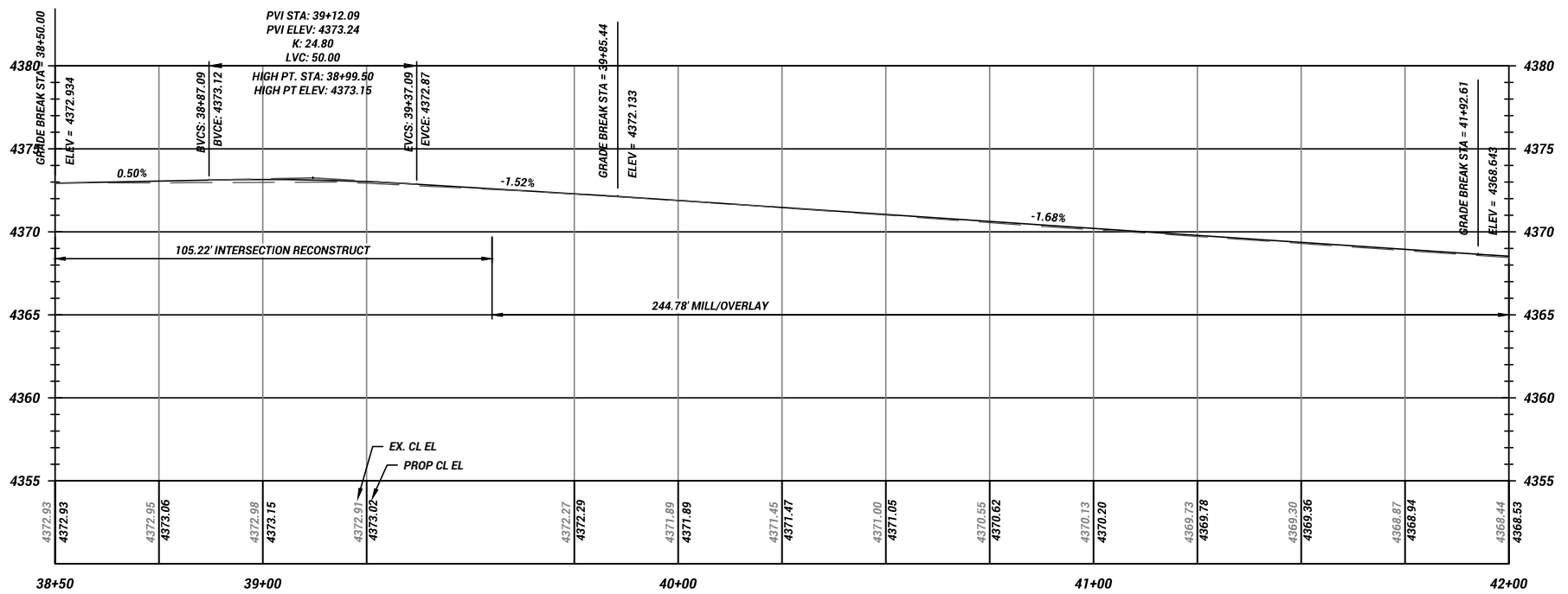
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
- 2 REMOVE ASPHALT PAVEMENT
- 3 REMOVE HYDRANT ASSEMBLY
- 4 REMOVE VALVE BOX.
- 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2, EXCAVATION INCLUDED
- 6 3" MINUS GRANULAR IMPORT BORROW (18" THICK, EXCAVATION INCLUDED)
- 7 HMA PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
- 8 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
- 9 EXISTING MANHOLE - ADJUST TO GRADE
- 10 VALVE BOX - ADJUST TO GRADE
- 11 EXISTING SURVEY MONUMENT - ADJUST TO GRADE
- 19 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
- 20 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
- 21 REMOVE & REPLACE CONCRETE FLATWORK (PEDESTRIAN RAMP, DRIVEWAYS, 6" THICK OVER 6" THICK BASE)
- 22 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
- 23 PAVEMENT MARKING PAINT (4" SOLID WHITE)
- 24 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
- 25 PAVEMENT MARKING PAINT (8" SOLID WHITE)
- 26 PAVEMENT MARKING PAINT (12" SOLID WHITE)
- 27 PAVEMENT MESSAGE PAINT (RIGHT/LEFT TURN ARROW)
- 28 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
- 29 RED CURB PAINTING



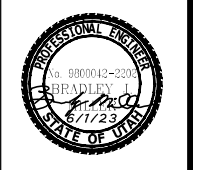
NOTES:
 1. THE MILL/OVERLAY AND STRIPING WILL BE PERFORMED BY OTHERS AND NOT A PART OF THIS CONTRACT.
 2. SEE DETAIL A:DT1 FOR THE PAVEMENT SECTION FOR BOTH 550 N AND 675 N INTERSECTIONS.



MONROE BLVD CENTERLINE PROFILE



REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



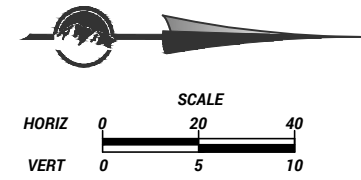
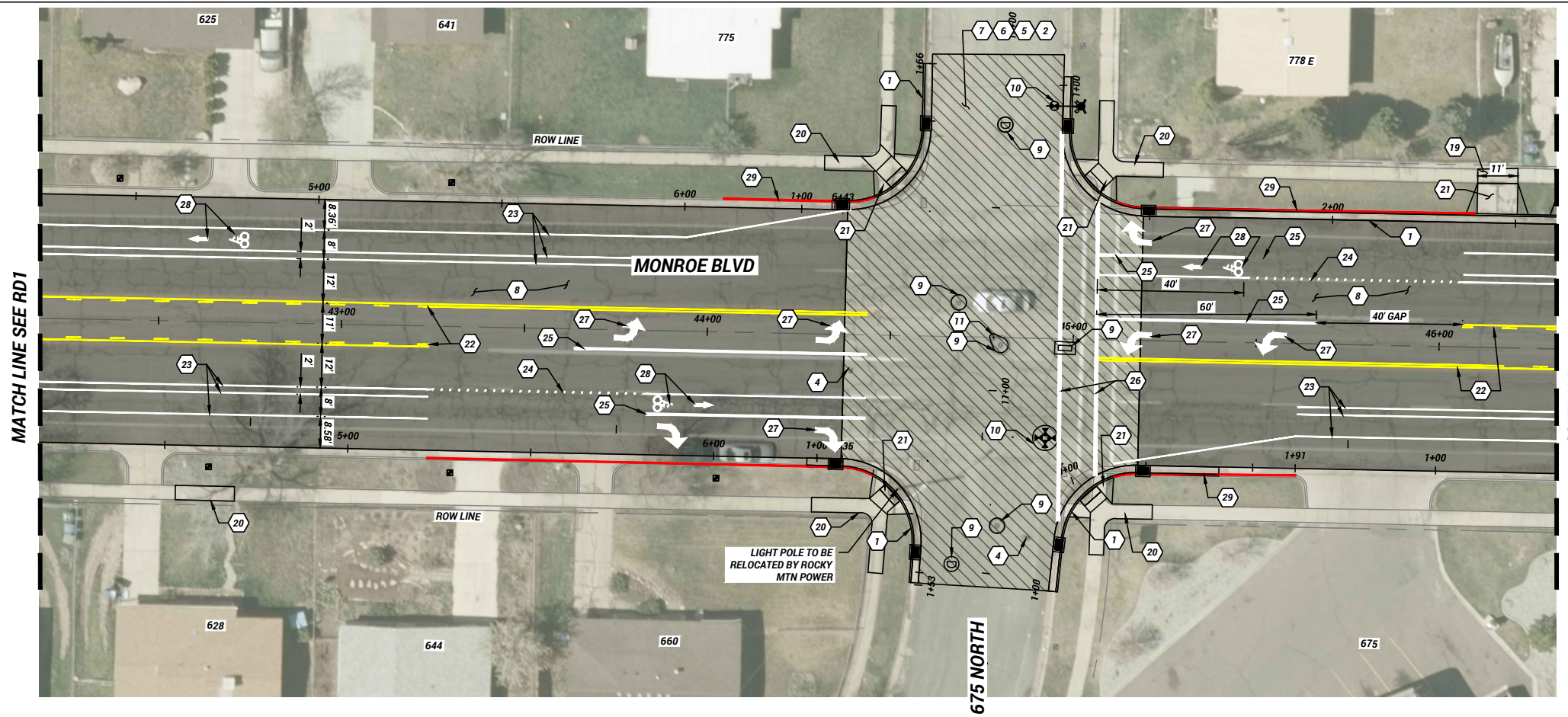
DESIGNED	B/M	DATE
		4/12/2023

DRAWN	B/M	DATE

CHECKED	TDN	DATE

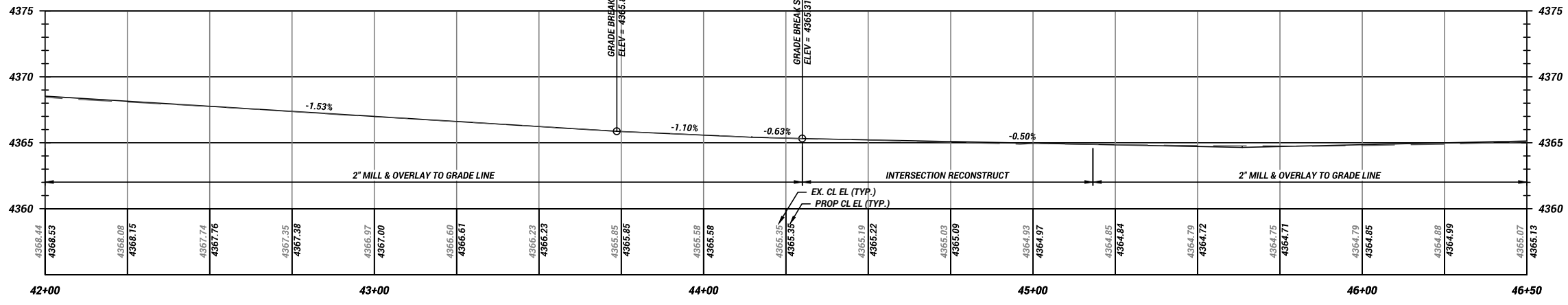
ROADWAY PLAN & PROFILE
MONROE WATER LINE PH I
 550 N TO 800 N
 DRAWING NAME: Monroe RD1.dwg
 PLOT DATE: 6/21/2023 3:14 PM

2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogdencity.com

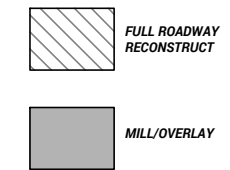
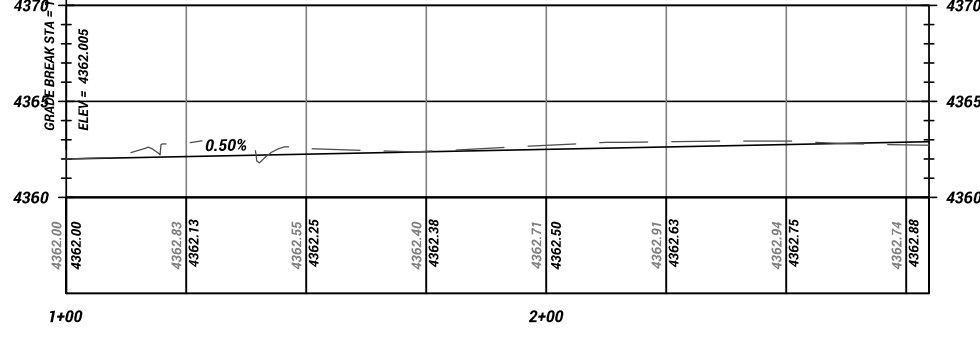


- KEYED NOTES:**
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - 2 REMOVE ASPHALT PAVEMENT
 - 3 REMOVE HYDRANT ASSEMBLY
 - 4 REMOVE VALVE BOX.
 - 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2, EXCAVATION INCLUDED
 - 6 3" MINUS GRANULAR IMPORT BORROW (18" THICK, EXCAVATION INCLUDED)
 - 7 HMA PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
 - 8 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
 - 9 EXISTING MANHOLE - ADJUST TO GRADE
 - 10 VALVE BOX - ADJUST TO GRADE
 - 11 EXISTING SURVEY MONUMENT - ADJUST TO GRADE
 - 19 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 20 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 21 REMOVE & REPLACE CONCRETE FLATWORK (PEDESTRIAN RAMP, DRIVEWAYS, 6" THICK OVER 6" THICK BASE)
 - 22 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
 - 23 PAVEMENT MARKING PAINT (4" SOLID WHITE)
 - 24 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
 - 25 PAVEMENT MARKING PAINT (8" SOLID WHITE)
 - 26 PAVEMENT MARKING PAINT (12" SOLID WHITE)
 - 27 PAVEMENT MESSAGE PAINT (RIGHT/LEFT TURN ARROW)
 - 28 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 29 RED CURB PAINTING

MONROE CL PROFILE GRADE



MONROE WEST LIP OF GUTTER PROFILE GRADE



NOTES:
 1. THE MILL/OVERLAY AND STRIPING WILL BE PERFORMED BY OTHERS AND NOT A PART OF THIS CONTRACT.
 2. SEE DETAIL A:DT1 FOR THE PAVEMENT SECTION FOR BOTH 550 N AND 675 N INTERSECTIONS.

RD2
 SHEET **8** OF **0** REVISION

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE
DRAWN <td>TDN <td>6/2/2023 </td></td>	TDN <td>6/2/2023 </td>	6/2/2023
CHECKED		

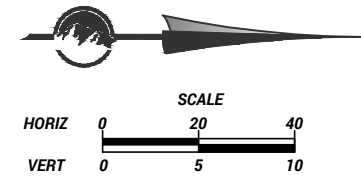
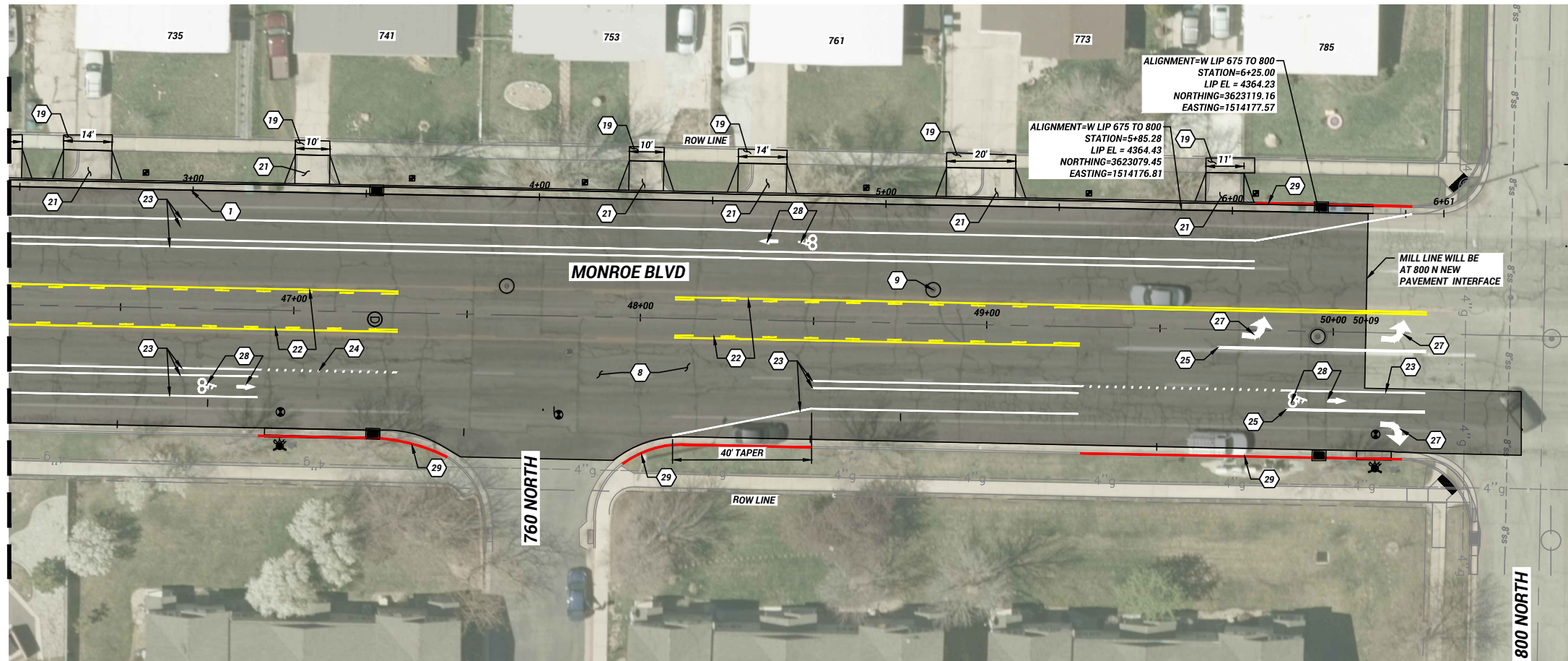
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 40' (11x17)
 This bar measures the original drawing

ROADWAY PLAN & PROFILE
MONROE WATER LINE PH I
 550 N TO 800 N



PLOT DATE: 6/2/2023 3:14 PM
 DRAWING NAME: Monroe RD 2.dwg

MATCH LINE SEE RD2

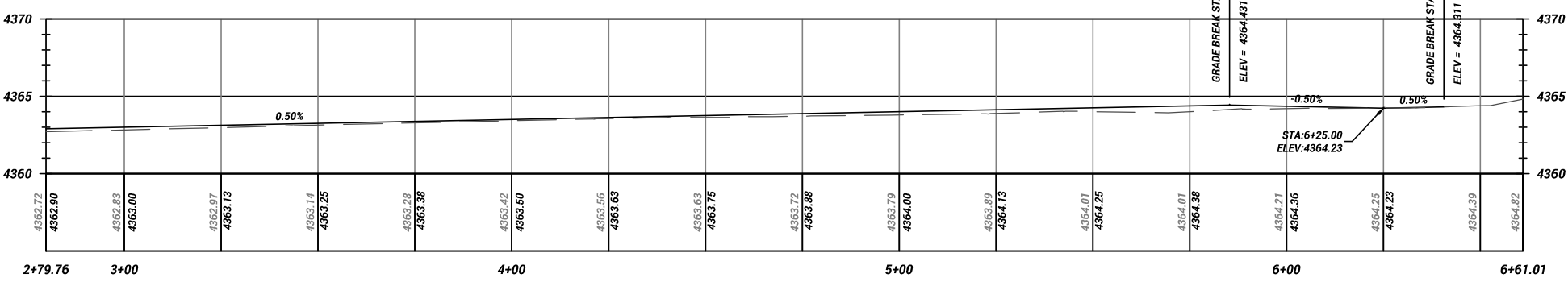




- KEYED NOTES:**
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - 2 REMOVE ASPHALT PAVEMENT
 - 3 REMOVE HYDRANT ASSEMBLY
 - 4 REMOVE VALVE BOX.
 - 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2, EXCAVATION INCLUDED
 - 6 3" MINUS GRANULAR IMPORT BORROW (18" THICK, EXCAVATION INCLUDED)
 - 7 HMA PG 58-28 SP-1/2" CLASS II INSTALLATION, 6" THICK PER STD DWG RD-3. ENGINEER TO CONFIRM AND APPROVE MAXIMUM EXTENTS IN THE FIELD.
 - 8 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
 - 9 EXISTING MANHOLE - ADJUST TO GRADE
 - 10 VALVE BOX - ADJUST TO GRADE
 - 11 EXISTING SURVEY MONUMENT - ADJUST TO GRADE
 - 19 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 20 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 21 REMOVE & REPLACE CONCRETE FLATWORK (PEDESTRIAN RAMP, DRIVEWAYS, 6" THICK OVER 6" THICK BASE)
 - 22 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
 - 23 PAVEMENT MARKING PAINT (4" SOLID WHITE)
 - 24 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
 - 25 PAVEMENT MARKING PAINT (8" SOLID WHITE)
 - 26 PAVEMENT MARKING PAINT (12" SOLID WHITE)
 - 27 PAVEMENT MESSAGE PAINT (RIGHT/LEFT TURN ARROW)
 - 28 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 29 RED CURB PAINTING

MONROE CL PROFILE GRADE

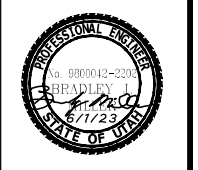


MONROE WEST LIP OF GUTTER PROFILE GRADE



 FULL ROADWAY RECONSTRUCT
 MILL/OVERLAY

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION

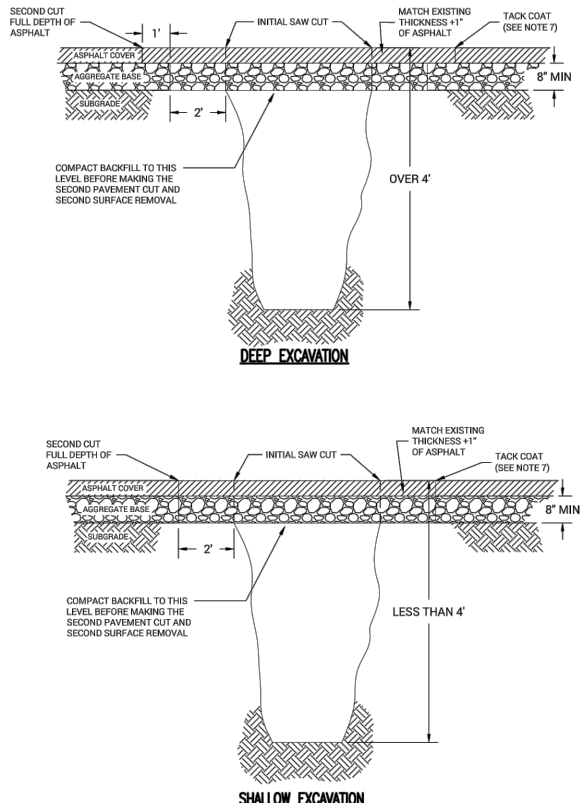


DESIGNED	B/M	DATE
DRAWN	B/M	5/16/2023
CHECKED	TDN	

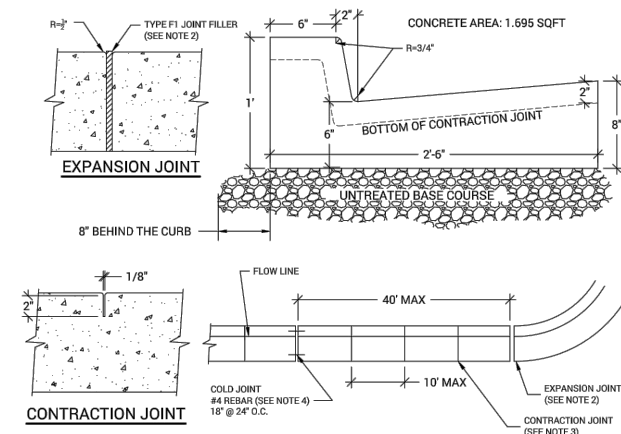
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 40' (11x17)
 V: 1" = 5' (22x34)
 V: 1" = 10' (11x17)

ROADWAY PLAN & PROFILE
MONROE WATER LINE PH I
 550 N TO 800 N
 PLOT DATE: 6/21/2023 3:14 PM
 DRAWING NAME: Monroe RD3.dwg



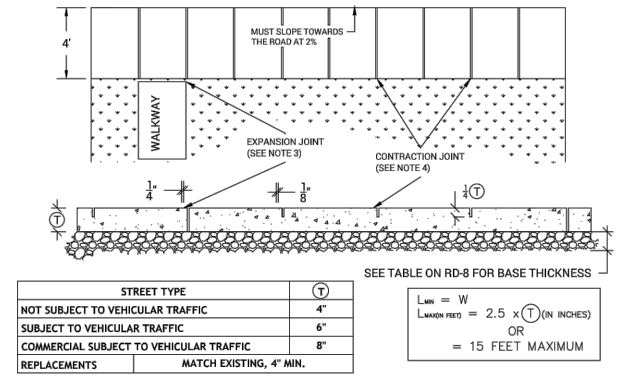


OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
	ASPHALT PATCH	RD-3
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 2	2020



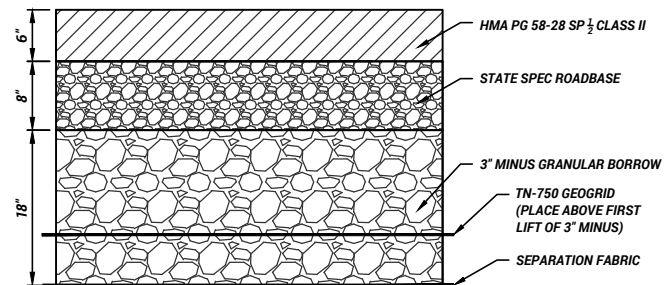
- NOTES:**
- BASE COURSE SHALL BE PER APWA SECTION 32 11 23.
 - EXTEND BASE 8" BEHIND THE CURB AND GUTTER.
 - IF FLOW LINE IS GREATER THAN 0.5 PERCENT (S=0.005), PROVIDE 6" OF COMPACTED BASE COURSE. IF LESS, PROVIDE 8" OF COMPACTED BASE COURSE.
 - COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
 - MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2" WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
 - SET TOP OF FILLER FLUSH WITH THE CONCRETE.
 - EXPANSION JOINTS ARE REQUIRED AT THE START OR END OF A STREET INTERSECTION CURB RETURN.
 - MAKE CONTRACTION JOINTS VERTICAL.
 - 1/8" WIDE AND 2" DEEP OR 1/4 OF THE SLAB THICKNESS IF THE SLAB IS OVER 8" THICK.
 - USE REINFORCEMENT PER ASTM A 615, GRADE 60, GALVANIZED OR EPOXY COATED DEFORMED STEEL. SEE APWA SECTION 03 20 00 REQUIREMENTS.
 - BAG MIX: MARCH - NOVEMBER 6 1/2, DECEMBER - FEBRUARY 7 1/2.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
	TYPE A CURB & GUTTER	RD-4
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 1	2020

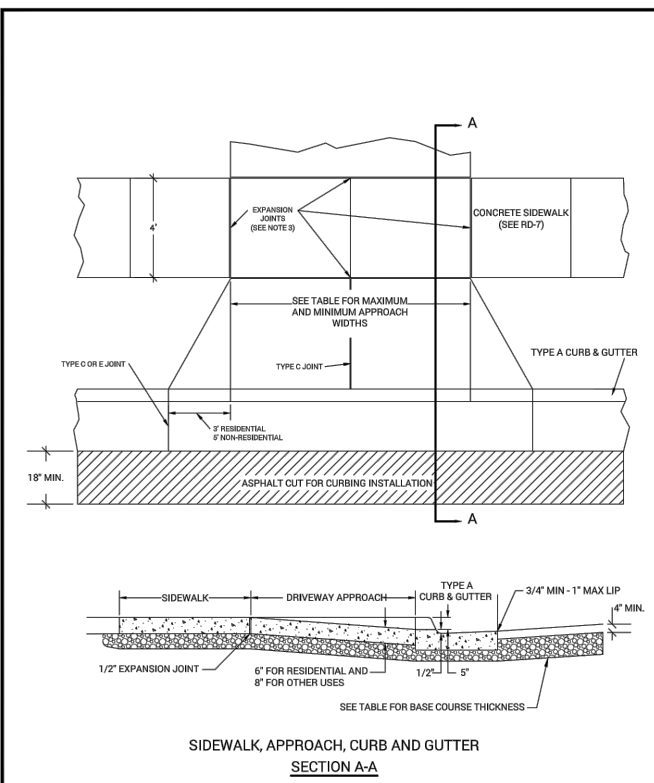


- NOTES:**
- BASE COURSE: PROVIDE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.
 - PLACE MATERIAL PER APWA SECTION 32 05 10.
 - COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING EQUIPMENT AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
 - CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - CONCRETE MUST INCREASE FROM 4" THICK TO 6" FOR RESIDENTIAL DRIVEWAYS AND TO 8" FOR COMMERCIAL DRIVEWAYS.
 - PLACE CONCRETE PER APWA SECTION 03 30 10.
 - PROVIDE 1/2" RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
 - EXPANSION JOINT: MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2" WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
 - SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
 - EXPANSION JOINTS REQUIRED AT CURB RETURNS, APPROACHES, AND ADJOINING WALKWAYS.
 - CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL. TYPICAL SLAB RATIO IS 1 TO 1.
 - 1/8" WIDE AND 1" DEEP (OR 1/2 SLAB THICKNESS IF SLAB IS GREATER THAN 4" THICK).
 - MAXIMUM LENGTH TO WIDTH RATIO FOR NON-SQUARE PANELS IS 1.5 TO 1.
 - BAG MIX: MARCH - NOVEMBER 6 1/2, DECEMBER - FEBRUARY 7 1/2.

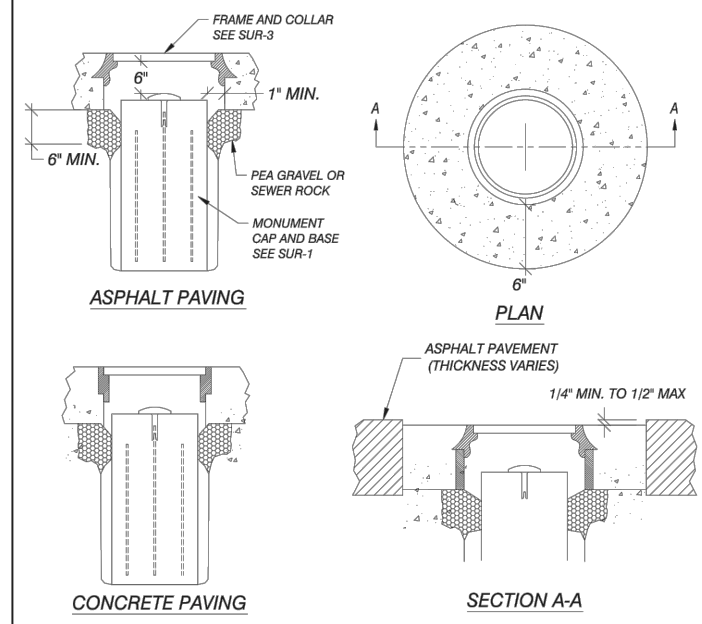
OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
	SIDEWALK DETAIL	RD-5
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 1	2020



A **DETAIL - 550 N & 675 N INTERSECTION PAVEMENT SECTION**
 DT1 NTS



OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
	DRIVEWAY APPROACH	RD-7
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 2	2020

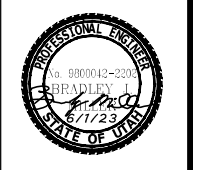


- NOTES:**
- BACKFILL: INSTALL AND COMPACT BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - FOUNDATION: COMPACT BOTTOM OF EXCAVATED HOLE BEFORE PLACEMENT OF PRECAST OR CAST IN-PLACE MONUMENT POST.
 - CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - JOINTS: PROVIDE A VERTICAL JOINT BETWEEN EXISTING AND NEW SURFACES. PROVIDE A CONCENTRIC CIRCLE CUT.
 - THE SURVEY MONUMENT BASE CONCRETE SHALL BE POURED SEPARATELY FROM THE FRAME AND COVER COLLAR CONCRETE.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
	SURVEY MONUMENT PLACEMENT UNDER ASPHALT PAVEMENTS	SUR-2
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 1	2020

DT1
 SHEET **70** OF **0** REVISION

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMIT



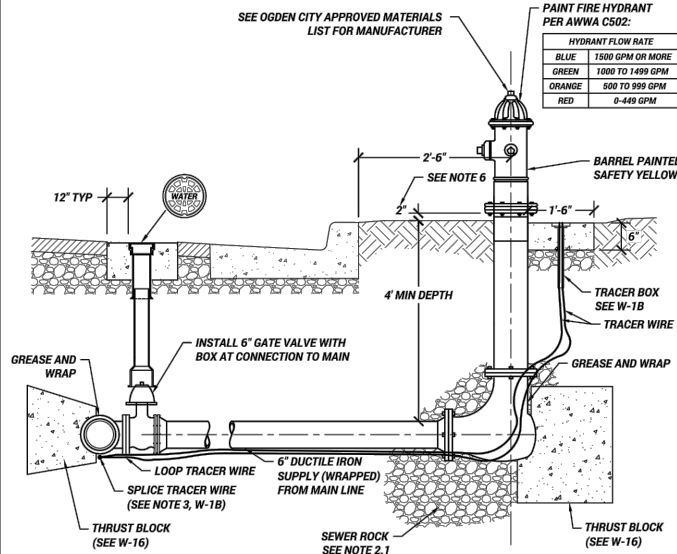
DESIGNED	BAM	DATE	6/1/2023
DRAWN	BAM		
CHECKED	TDN		

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 40' (11x17)
 V: 1" = 5' (22x34)
 V: 1" = 10' (11x17)

This bar measures on the original drawing.

DETAILS
MONROE WATER LINE PH I
 550 N TO 800 N
 PLOT DATE: 6/21/2023 3:14 PM
 DRAWING NAME: DT1.dwg

2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogden-city.com

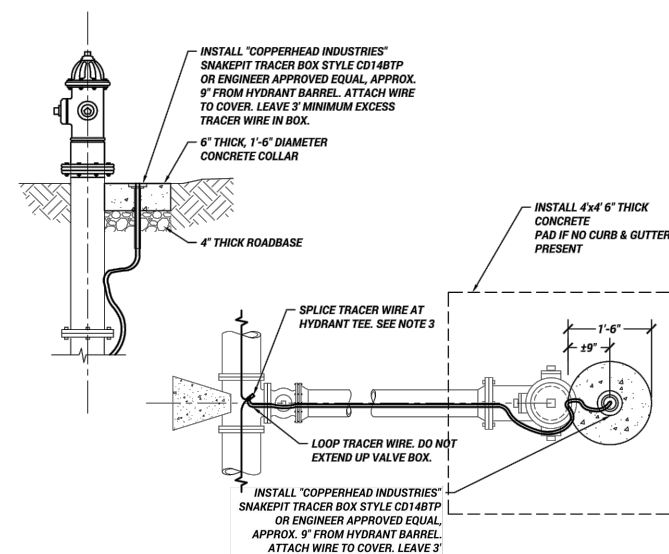


- FIRE HYDRANT NOTES:**
1. PROVIDE AND PLACE BACKFILL PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8" WHEN USING RIDING COMPACTION AND 6" WHEN USING HAND HELD COMPACTION EQUIPMENT.
 2. HYDRANT: DRY BARREL PER AWWA C502. ADDITIONAL WATER SYSTEM REQUIREMENTS SPECIFIED IN APWA SECTION 33 11 00.
 - 2.1. PROVIDE AT LEAST ONE (1) CUBIC YARD OF SEWER ROCK AROUND DRAIN HOLE OF FIRE HYDRANT. WRAP GEOTEXTILE AROUND SEWER ROCK AND TAPE GEOTEXTILE TO HYDRANT SPOOL TO PREVENT SILTING.
 - 2.2. APPLY NON-OXIDE GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
 - 2.3. NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
 - 2.4. BLACK-WRAP ANY HYDRANT NOT IN SERVICE.
 3. THRUST BLOCKS:
 - 3.1. PRIOR TO POURING CONCRETE, WRAP PIPE SYSTEM WITH 8 MIL THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM.
 - 3.2. NOT REQUIRED AT THE MAIN FOR FLANGED OR RESTRAINED PIPE SYSTEMS.
 4. VALVE BOXES ARE TO BE SLIP-TYPE, ADJUSTED TO GRADE, AND PAVED WITH A CONCRETE COLLAR.
 5. INSTALL A 4"x4" 6" THICK CONCRETE PAD AROUND THE HYDRANT BASE IF NO CURB AND GUTTER IS PRESENT.
 6. PASS OFF HYDRANT BASE HEIGHT WITH AN OGDEN CITY ENGINEERING INSPECTOR.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

FIRE HYDRANT ASSEMBLY **W-1A**

JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 2 2022

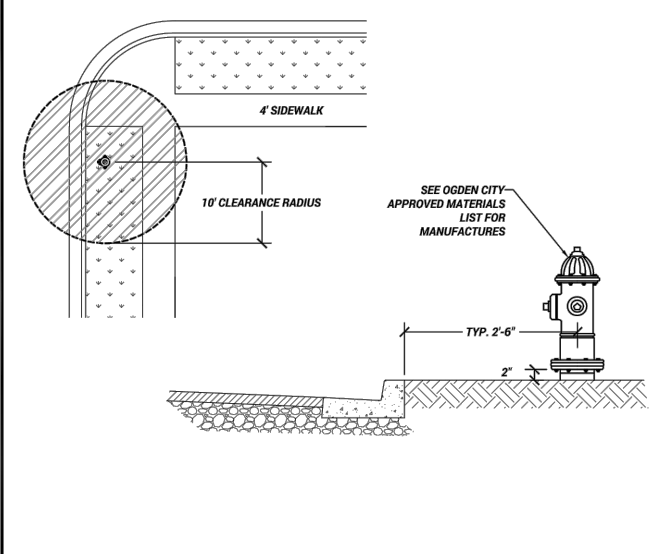


- TRACER WIRE NOTES:**
1. TRACER BOX TO BE LOCATED ON BACK SIDE OF HYDRANT UNLESS DIRECTED OTHERWISE BY ENGINEER.
 2. ALL TRACER WIRE TO BE 12 GA INSULATED, BLUE TRACER WIRE PLACED BENEATH PIPE.
 3. TRACER WIRE SHALL BE COPPER WIRE WITH BLUE INSULATION RATED FOR DIRECT BURIAL. ALL WIRE CONNECTORS SHALL BE 3M DBR DIRECT BURY SPLICE OR ENGINEER APPROVED EQUAL AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
 4. ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF A REPRESENTATIVE FROM OGDEN CITY WATER PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO ASPHALT PLACEMENT.
 5. ALL TRACER WIRE WILL BE RE-TESTED AT THE 1-YEAR WARRANTY INSPECTION. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

FIRE HYDRANT ASSEMBLY **W-1B**

JUSTIN ANDERSON, CITY ENGINEER SHEET 2 OF 2 2022

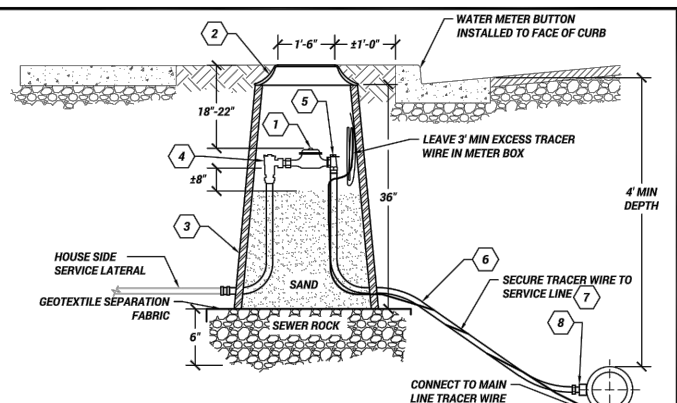


- NOTES:**
1. PAINT TOP AND FACE OF CURB, 15' ON BOTH SIDES, WITH RED PAINT TO INDICATE NO PARKING.
 2. NO TREES, PLANTS, FLOWERS, SHRUBS, OR ANY OTHER ITEM WHICH MAY OBSTRUCT THE VIEW OR ACCESS TO A FIRE HYDRANT, SHALL BE INSTALLED/PLANTED WITHIN 10' OF ANY FIRE HYDRANT.
 3. HYDRANT SHALL BE 2'-6" BEHIND THE BACK OF CURB OR AS SPECIFIED BY THE CITY ENGINEER.
 4. ARTERIAL ROADS SHALL HAVE FIRE HYDRANTS ON BOTH SIDES OF THE ROADWAY.
 5. INSTALL A 4"x4" 6" THICK CONCRETE PAD AROUND THE BASE IF NO CURB AND GUTTER IS PRESENT.
 - 5.1. BOLLARD INSTALLATION MAY BE REQUIRED BASED ON THE HYDRANT LOCATION.
 6. FIRE HYDRANT SPACING:
 - 6.1. SHALL NOT EXCEED A 500' RADIUS IN AREAS WITH SINGLE FAMILY DWELLINGS.
 - 6.2. SHALL NOT EXCEED A 300' RADIUS IN ALL OTHER AREAS.
 - 6.3. OR AS DETERMINED BY THE FIRE MARSHAL.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

FIRE HYDRANT LOCATION **W-2**

JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2022



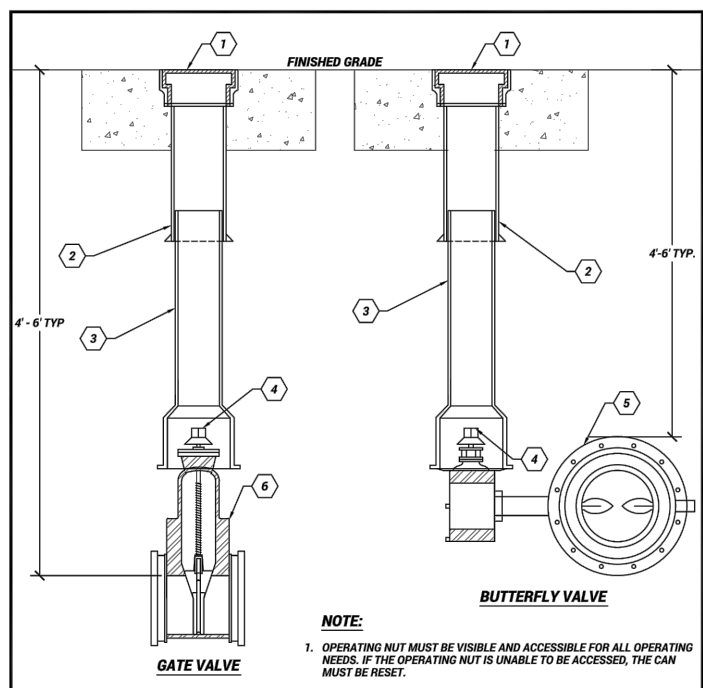
- NOTES:**
1. CONTRACTOR TO PROVIDE AND INSTALL ALL MATERIALS AS SHOWN ON THE DETAIL, UNLESS DIRECTED OTHERWISE BY OGDEN CITY WATER. PURCHASE METER BOX FROM OGDEN CITY.
 2. METERS TO BE INSTALLED IN THE PARK STRIP, 1' BEHIND THE BACK OF CURB, OR 1' BEHIND THE SIDEWALK WHERE THE SIDEWALK IS ADJACENT TO THE CURB. DO NOT PLACE METER BOXES IN OR UNDER DRIVEWAY APPROACHES, SIDEWALKS, OR CURB AND GUTTER. IN THE CASE OF NO CURB AND GUTTER, PLACE METER WITHIN 7' OF THE PROPERTY LINE (STREET SIDE).
 3. FILL METER BOX WITH SAND UP TO APPROXIMATELY 8" FROM BOTTOM OF METER. TAMP SAND TO STABILIZE METER. SEPARATE SAND FROM SEWER ROCK WITH A GEOTEXTILE SEPARATION FABRIC.
 4. PROVIDE AND PLACE IMPORT BACKFILL PER APWA SECTION 33 05 20 SURROUNDING THE METER ASSEMBLY. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER, MODIFIED PROCTOR DENSITY. MAXIMUM LIFT THICKNESS IS 8" WHEN USING RIDING COMPACTION AND 6" WHEN USING HAND HELD COMPACTION EQUIPMENT.
 5. ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF A REPRESENTATIVE FROM OGDEN CITY WATER PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO ASPHALT PLACEMENT.
 6. ALL TRACER WIRE WILL BE RE-TESTED AT THE 1-YEAR WARRANTY INSPECTION. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

ITEM	QTY	DESCRIPTION
1	1	1" OR SMALLER WATER METER (CITY PROVIDED WITH METER/TAPPING FEE)
2	1	18" FRAME AND COVER WITH RECESSED HOLE FOR ANTENNA READ
3	1	RAVEN METER BOX OR APPROVED EQUAL
4	1	1" ASSE 1024 DUAL CHECK VALVE (BACKFLOW PREVENTER, TOP ENTRY ONLY)
5	1	1" ANGLE VALVE - KV43-444W/G OR EQUIVALENT
6	VARIABLES	1" AWWA C901 CTS POLY TUBING
7	VARIABLES	TRACER WIRE
8	1	CORP STOP WITH TEE-HEAD CAP ADAPTOR

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

TYPICAL SERVICE INSTALLATION FOR WATER METERS 1" OR SMALLER **W-3**

JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2022



NOTE:

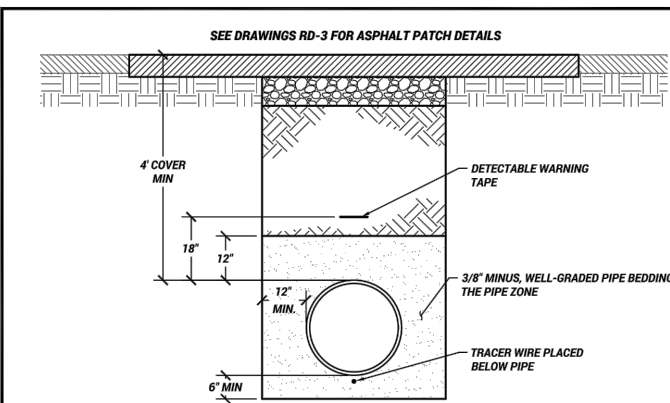
1. OPERATING NUT MUST BE VISIBLE AND ACCESSIBLE FOR ALL OPERATING NEEDS. IF THE OPERATING NUT IS UNABLE TO BE ACCESSED, THE CAN MUST BE RESET.

ITEM	DESCRIPTION
1	VALVE COVER, 8" O.D. CAST IRON, HEAVY-DUTY STAMPED "WATER"
2	VALVE SLIP CAN, SLIP CAN LENGTH 18" (ADJUST TO GRADE) (ONE ONLY)
3	VALVE SLIP CAN BASE (24", 30", OR 36" LENGTHS)
4	2" SQ. OPERATING NUT
5	BUTTERFLY VALVE (FLxFL OR FLxMJ) FOR ALL VALVES 12" OR GREATER
6	GATE VALVE (FLxFL OR FLxMJ) FOR VALVES 6" - 10"

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

TYPICAL VALVE DETAIL **W-11**

JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2022



- NOTES:**
1. PIPE ZONE WIDTH IS RECOMMENDED BY THE MANUFACTURE OF THE PIPE. WIDTH OF THE PIPE ZONE IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. FOLLOW MANUFACTURER RECOMMENDATIONS FOR ANY TRENCH BOX APPLICATIONS.
 2. INSTALL THE PIPE IN THE CENTER OF THE TRENCH.
 3. BASE COURSE PER APWA SECTION 32 11 23.
 4. WIDTH OF EXCAVATION IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING.
 5. USE 3/8" MINUS WELL-GRADED PIPE BEDDING IMPORT FILL IN THE PIPE ZONE. MAXIMUM LIFT THICKNESS IS 8" BEFORE COMPACTION.
 6. DO NOT USE RECYCLED RAP AGGREGATE IN THE TRENCH. IF MANUFACTURER RECOMMENDS ANYTHING CONTRARY TO WHAT IS LISTED BELOW, CONSULT WITH THE ENGINEERING DEPARTMENT.
 - 6.1. HAUNCHING/BEDDING: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. 6.1.1. WATER JETTING IS NOT ALLOWED.
 - 6.1.2. SUBMISSION OF COMPACTION TEST DATA FOR THE HAUNCHING AREAS MAY BE REQUESTED AT ANY TIME.
 - 6.2. BACKFILL: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. DO NOT PLACE IN LIFTS GREATER THAN 8" BEFORE COMPACTION. 6.2.1. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
 7. PEA GRAVEL IS NOT ALLOWED IN ANY PART OF THE TRENCH.
 8. REFER TO APWA SECTION 33 05 07 FOR ADDITIONAL INFORMATION ON PVC PIPE.
 9. ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF A REPRESENTATIVE FROM OGDEN CITY WATER PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO ASPHALT PLACEMENT.
 10. ALL TRACER WIRE WILL BE RE-TESTED AT THE 1-YEAR WARRANTY INSPECTION. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

TYPICAL WATERLINE TRENCH **W-18**

JUSTIN ANDERSON, CITY ENGINEER SHEET 1 OF 1 2022

DT2
SHEET 11
REVISION 0

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DATE 6/1/2023

B/M B/M TDN

DESIGNED DRAWN CHECKED

DRAWING SCALE
H: 1" = 20' (22x34)
V: 1" = 40' (11x17)
V: 1" = 5' (22x34)
V: 1" = 10' (11x17)

This bar measures the drawing on the original drawing.

DETAILS
MONROE WATER LINE PH I
550 N TO 800 N

OGDEN UTAH Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-9990 engineering.ogden-city.com

PLOT DATE: 6/21/2023 3:14 PM
DRAWING NAME: DT1.dwg