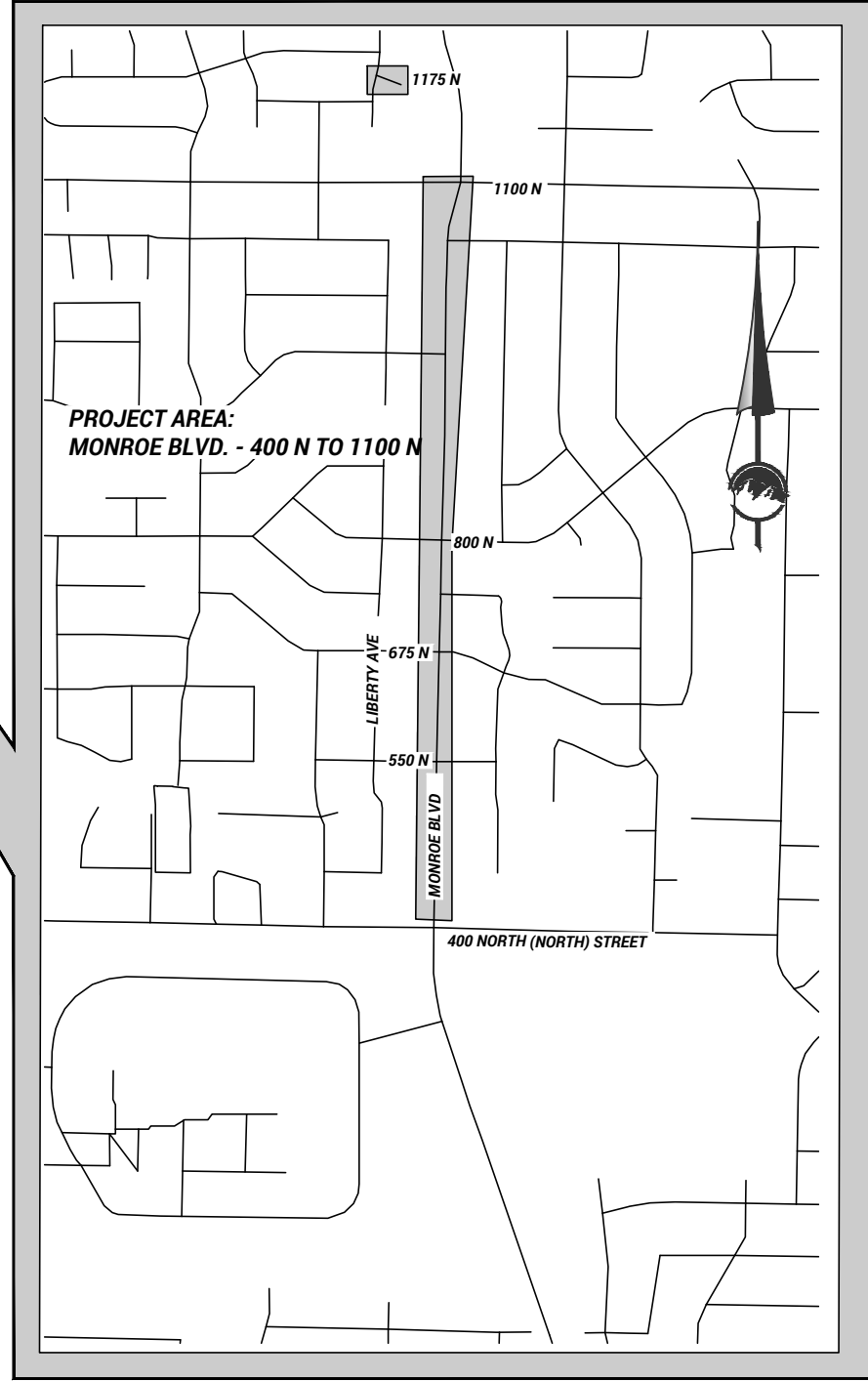
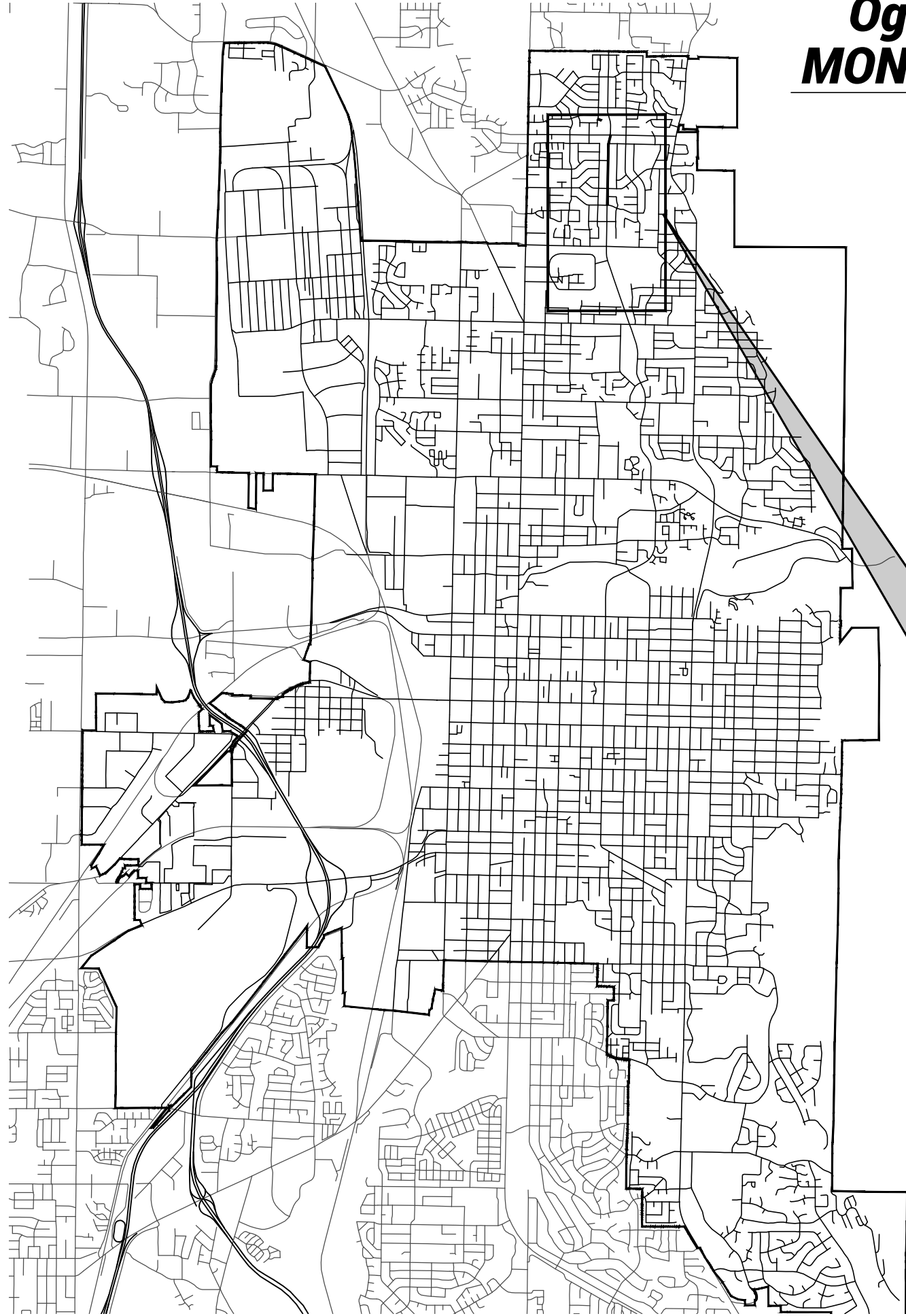


Ogden City Engineering

MONROE WATER LINE PH II

400 N TO 1100 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	W4	WATER LINE PLAN & PROFILE
7	W5	WATER LINE PLAN & PROFILE
8	W6	WATER LINE PLAN & PROFILE
9	W7	WATER LINE PLAN & PROFILE
10	W8	1175 WATER LINE PLAN & PROFILE
11	RD1	ROADWAY PLAN
12	RD2	ROADWAY PLAN
13	RD3	ROADWAY PLAN
14	RD4	ROADWAY PLAN & PROFILE
15	DT1	DETAILS
16	DT2	DETAILS

G1	SHEET	7	REVISION	0
	DESCRIPTION			

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE	11/9/2023
DRAWN	B/M		
CHECKED	TDN		
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V:	NONE (11x17)		
	NONE (22x34)		
	NONE (11x17)		

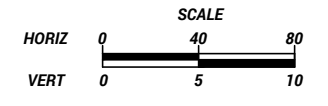
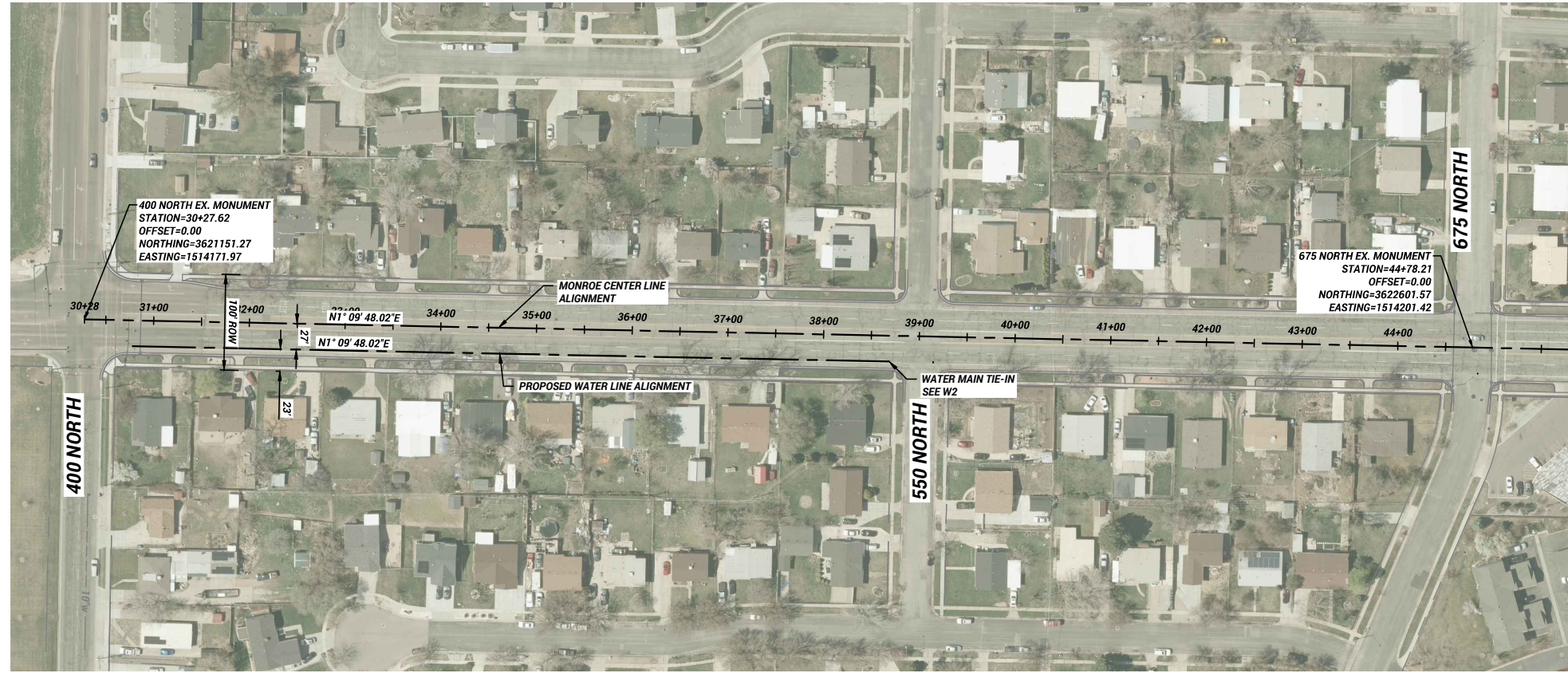
TITLESHEET

MONROE WATER LINE PH II

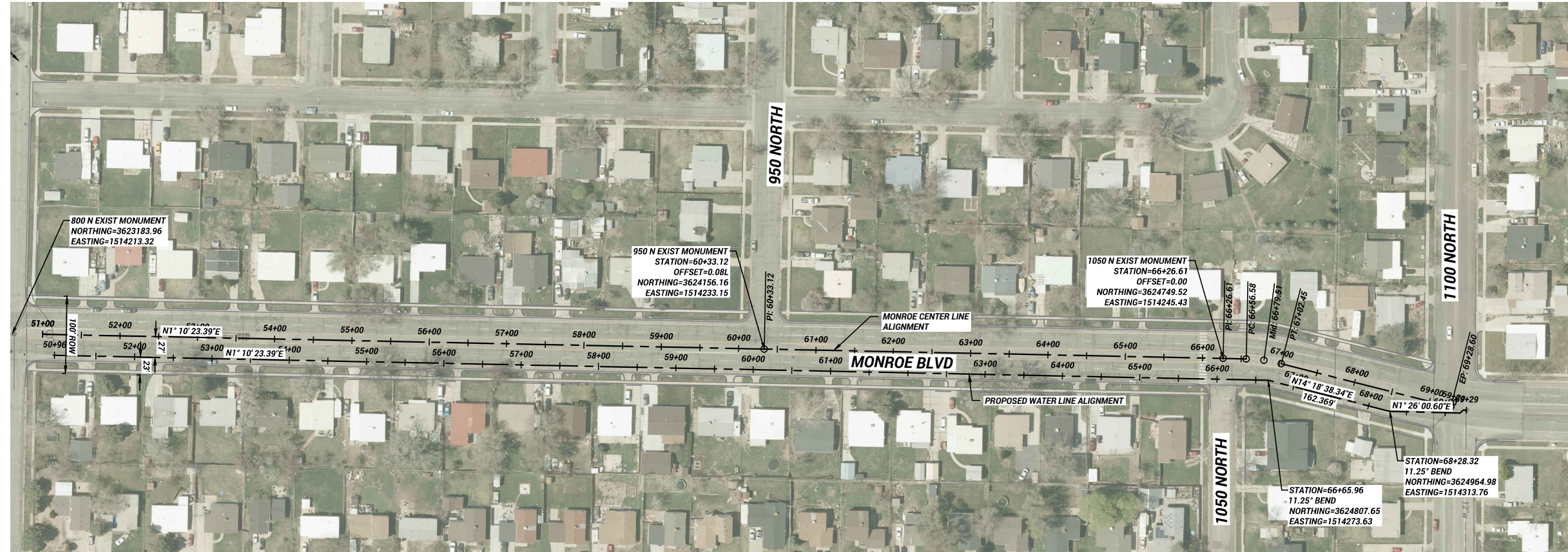
MONROE - 400 N TO 1100 N

DRAWING NAME: G-1_Titlesheet_Monroe Ph 2.dwg
PLOT DATE: 11/13/2023 3:36 PM

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

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMIT



DESIGNED	B/M	DATE
		11/9/2023
DRAWN	B/M	DATE
CHECKED	TDN	DATE

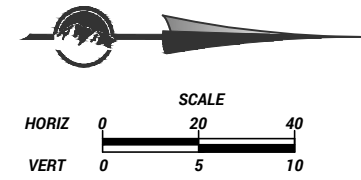
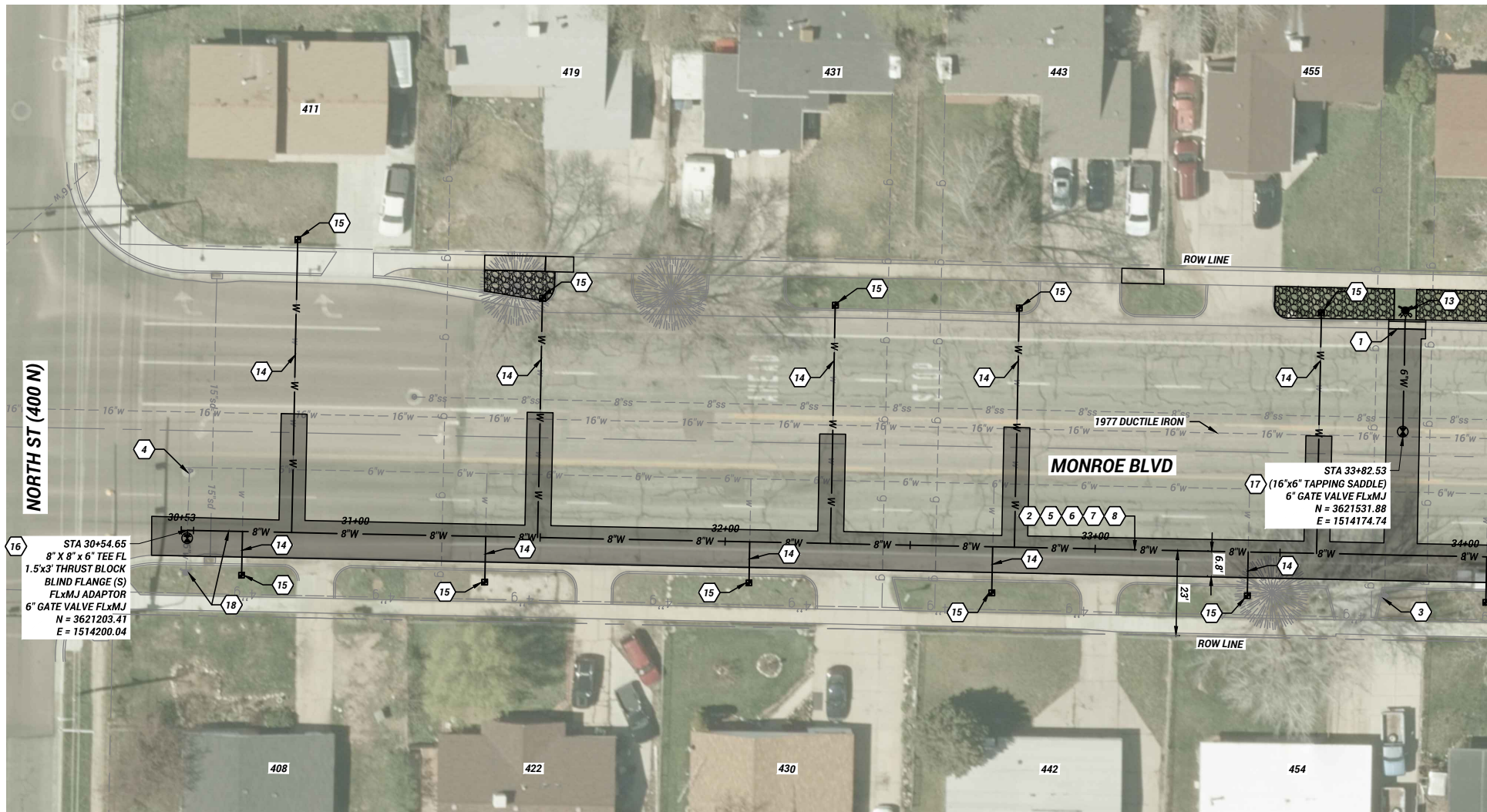
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (11x17)
 This drawing is to be used only in conjunction with the original drawing.

SURVEY CONTROL
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N

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

DRAWING NAME: SC1_Survey Control Monroe.dwg
 PLOT DATE: 11/13/2023 3:37 PM

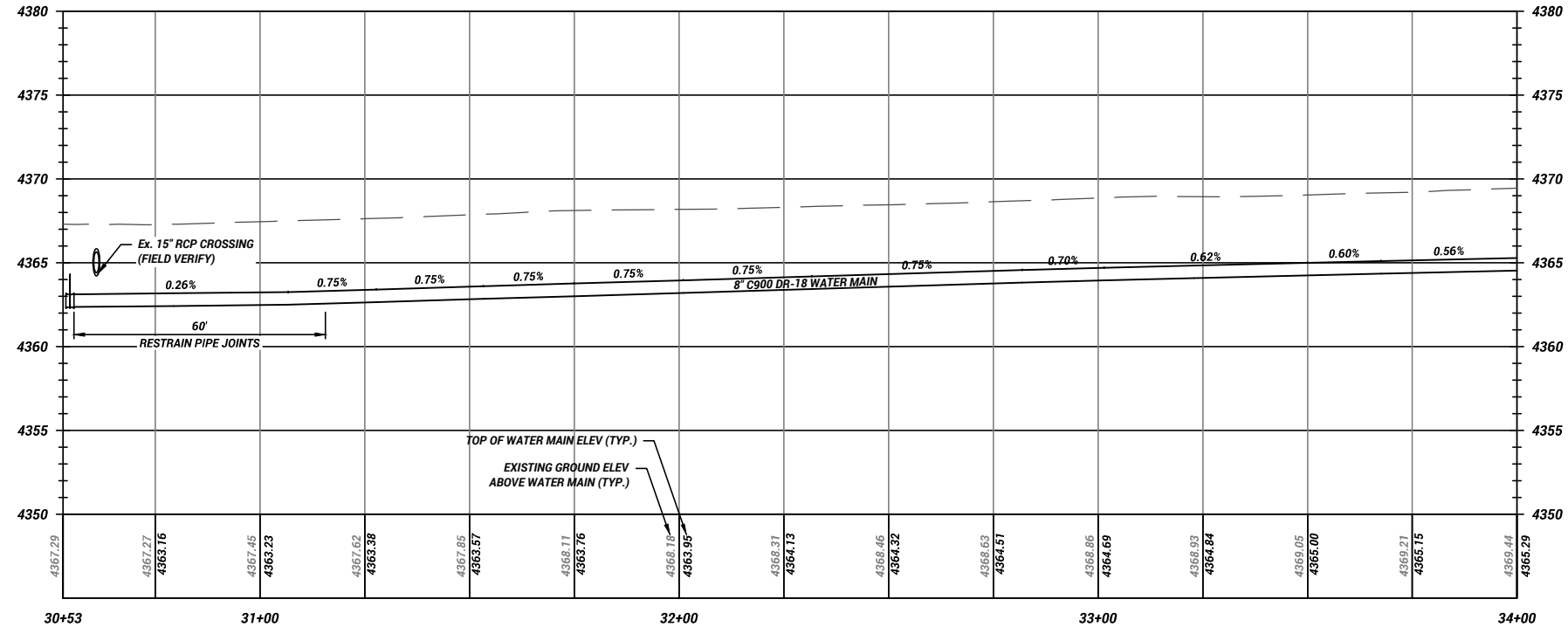
SHEET **2** OF **0** REVISION



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
- 6 3" MINUS IMPORT GRANULAR BORROW
- 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.
- 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
- 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 11 12" BUTTERFLY VALVE CLASS 250
- 12 EXISTING WATER MAIN CONNECTION
- 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
- 14 1" AWWA C901 CTS POLY SERVICE LINE
- 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
- 16 INSTALL 8x8x6 TEE (1.5x3" THRUST BLOCK), 6" GATE VALVE, AND CONNECT TO EXISTING HYDRANT LINE.
- 17 INSTALL 16"x6" TAPPING SADDLE (FORD FTSS STYLE) w/ 6" GATE VALVE (CLASS 250) FL. OGDEN CITY WATER TO PERFORM THE TAP.
- 18 INSTALL TEMPORARY 2" JUMPER LINE FROM EXISTING HYDRANT TO NEW MAIN (AFTER NEW MAIN HAS PASSED TESTING) FOR TEMPORARY FEED FOR SERVICE SWITCH-OVER.

MONROE WATER LINE PROFILE

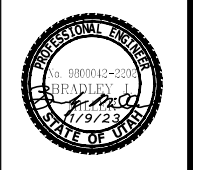


NOTES:

1. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
2. EXISTING SERVICE LINE INFORMATION:
 455 MONROE - 1" COPPER, 3/4" METER
 454 MONROE - 3/4" COPPER, 5/8" METER
 443 MONROE - 1" COPPER, 3/4" METER
 442 MONROE - 3/4" COPPER, 5/8" METER
 431 MONROE - 1" COPPER, 3/4" METER
 430 MONROE - 3/4" GALVANIZED, 5/8" METER
 422 MONROE - 3/4" COPPER, 5/8" METER
 419 MONROE - 1" COPPER, 3/4" METER
 411 MONROE - 1" COPPER, 3/4" METER
 408 MONROE - 3/4" COPPER, 5/8" METER
3. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
4. EXISTING PRESSURES:
 400 N = 63.94 PSI, 550 N = 62 PSI

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

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMITS



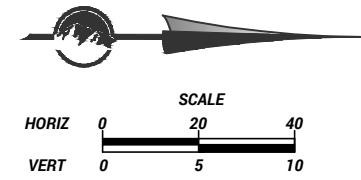
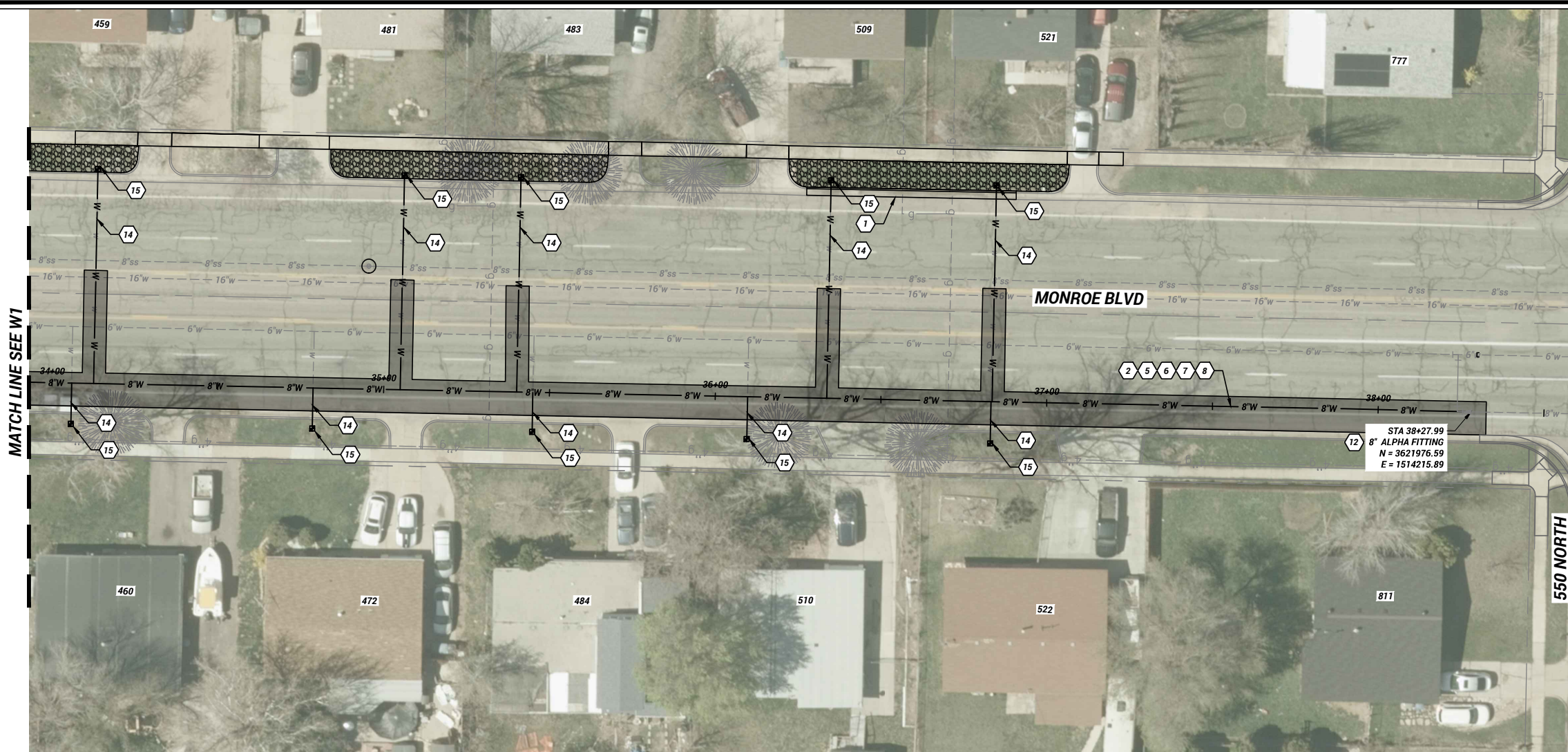
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CHECKED <td>T/DN</td> <td></td>	T/DN	

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

WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N

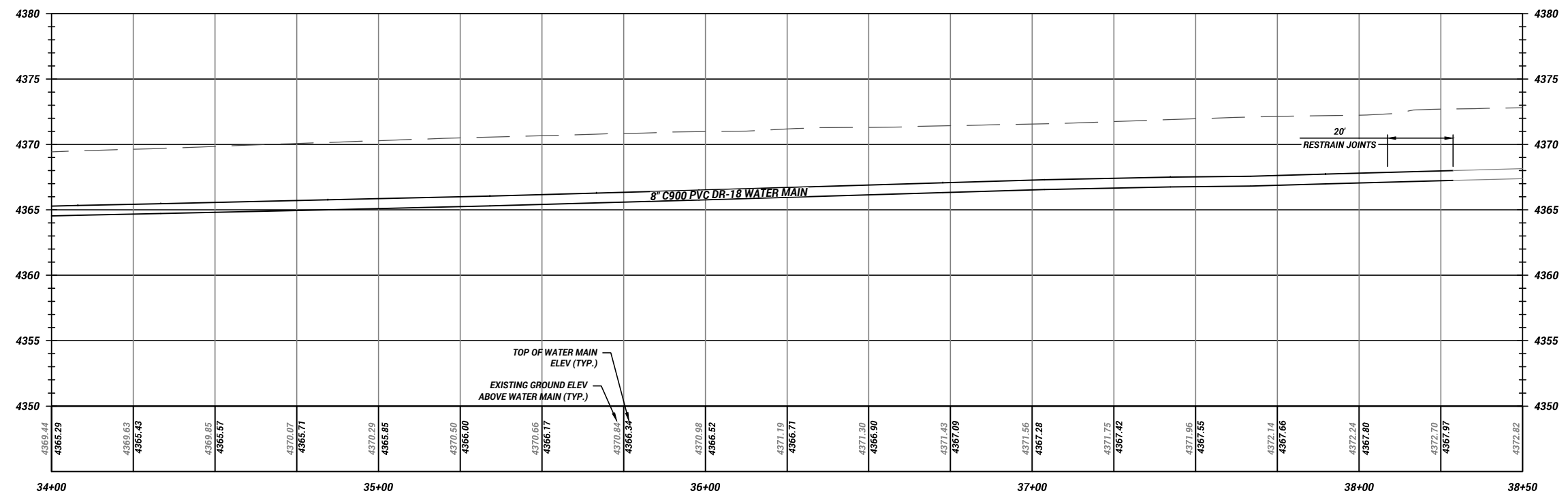


DRAWING NAME: Monroe Ph.2 W.Lx.dwg PLOT DATE: 11/13/2023 3:37 PM



- 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
 - 6 3" MINUS IMPORT GRANULAR BORROW
 - 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.
 - 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 11 12" BUTTERFLY VALVE CLASS 250
 - 12 EXISTING WATER MAIN CONNECTION
 - 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 14 1" AWWA C901 CTS POLY SERVICE LINE
 - 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 16 INSTALL 8x8x6 TEE (1.5x3" THRUST BLOCK), 6" GATE VALVE, AND CONNECT TO EXISTING HYDRANT LINE.
 - 17 INSTALL 16"x6" TAPPING SADDLE (FORD FTSS STYLE) w/ 6" GATE VALVE (CLASS 250) FL. OGDEN CITY WATER TO PERFORM THE TAP.
 - 18 INSTALL TEMPORARY 2" JUMPER LINE FROM EXISTING HYDRANT TO NEW MAIN (AFTER NEW MAIN HAS PASSED TESTING) FOR TEMPORARY FEED FOR SERVICE SWITCH-OVER.

- NOTES:**
1. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
 2. EXISTING SERVICE LINE INFORMATION:
 522 MONROE - 3/4" COPPER, 5/8" METER
 521 MONROE - 1" COPPER, 3/4" METER
 509 MONROE - 1" COPPER, 3/4" METER
 510 MONROE - 3/4" COPPER, 5/8" METER
 484 MONROE - 3/4" COPPER, 5/8" METER
 483 MONROE - 1" COPPER, 3/4" METER
 481 MONROE - 1" COPPER, 3/4" METER
 472 MONROE - 3/4" COPPER, 5/8" METER
 460 MONROE - 3/4" COPPER, 5/8" METER
 459 MONROE - 1" COPPER, 3/4" METER
 3. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME OVER THE TRENCH.
 4. EXISTING PRESSURES:
 400 N = 63.94 PSI, 550 N = 62 PSI
 5. THE EXPECTED T-PATCH FOR THE WATER MAIN IS EXPECTED TO GO TO THE EAST CURB AND BE ABOUT 10' WIDE. CONFIRM EXTENTS IN THE FIELD WITH THE ENGINEER.



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

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMITS



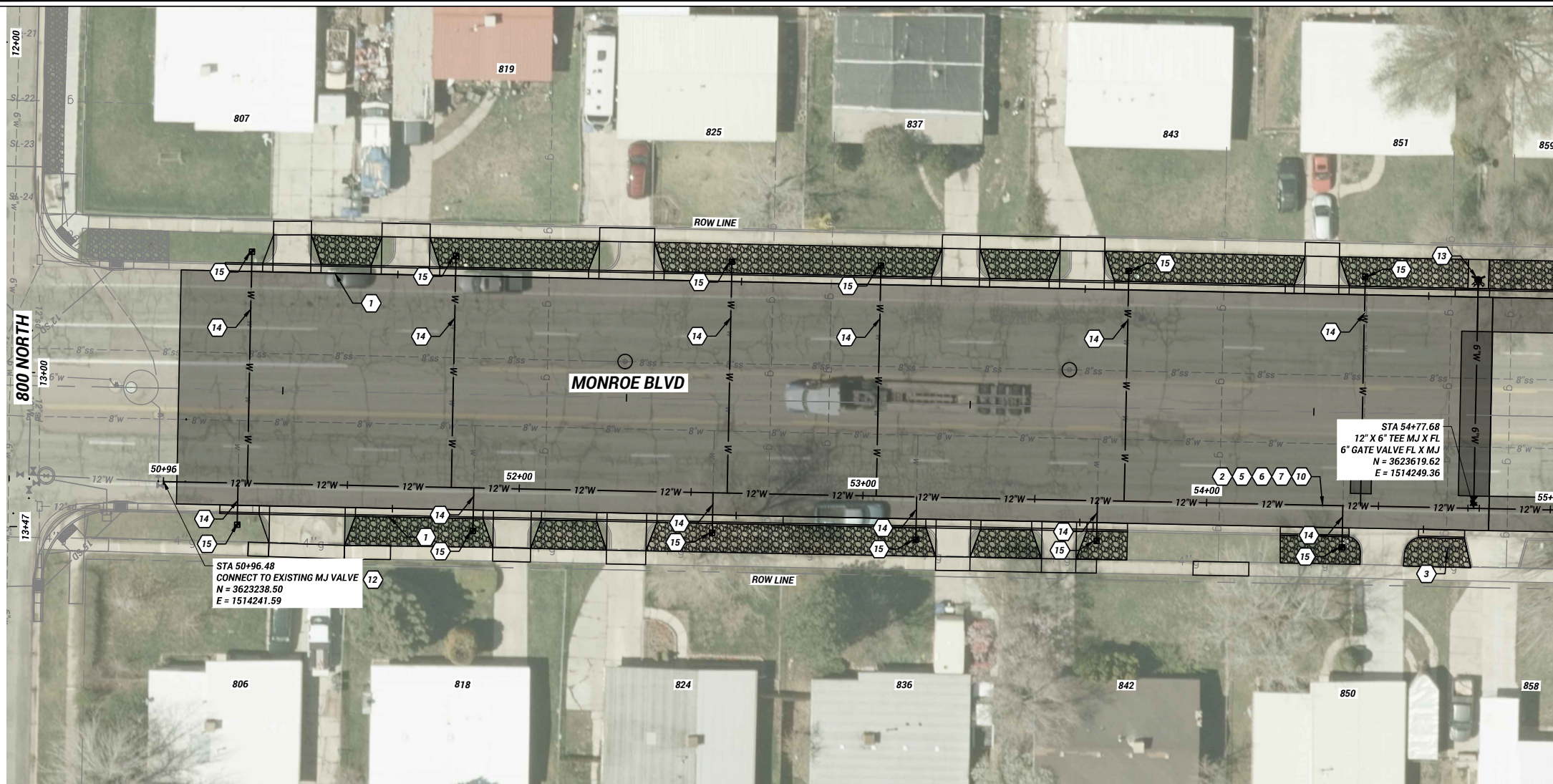
DESIGNED	B/M	DATE
DRAWN	B/M	11/13/2023
CHECKED	T/DN	

DRAWING SCALE
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 V: 1" = 5' (22x34)
 This bar measures the original drawing.

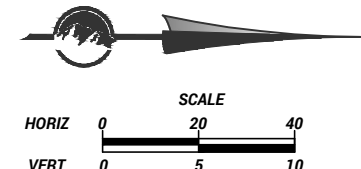
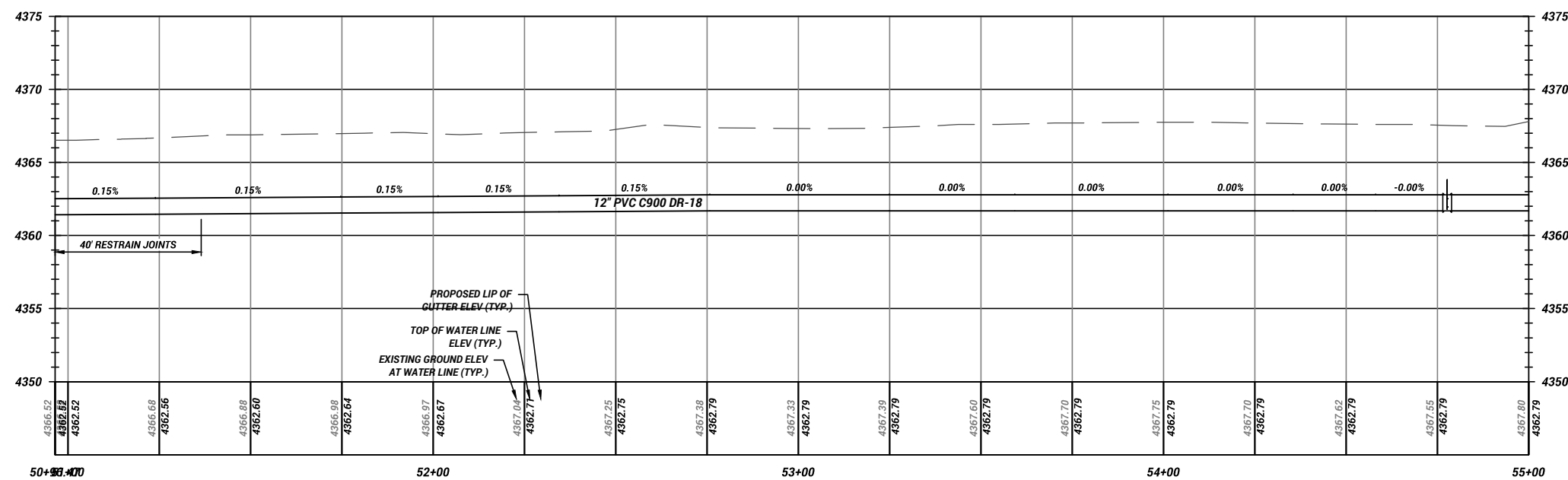
WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N

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

PLOT DATE: 11/13/2023 3:38 PM
 DRAWING NAME: Monroe Ph.2 W.Lx.dwg



PROPOSED MONROE BLVD WATER LINE PROFILE



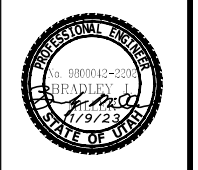
- KEYED NOTES:**
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - 2 REMOVE ASPHALT PAVEMENT
 - 3 REMOVE FIRE HYDRANT ASSEMBLY. SALVAGE OLD FIRE HYDRANT TO OGDEN CITY WATER DEPARTMENT UPON REQUEST.
 - 4 REMOVE VALVE BOX.
 - 5 ROADBASE APWA (GRADE 1", 8" THICK) PER STD DWG RD-2
 - 6 3" MINUS IMPORT GRANULAR BORROW
 - 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.
 - 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 11 12" BUTTERFLY VALVE CLASS 250
 - 12 EXISTING WATER MAIN CONNECTION
 - 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 14 1" AWWA C901 CTS POLY SERVICE LINE
 - 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 22 ADJUST VALVE TO GRADE AND COLLAR
 - 24 REMOVE & REPLACE CONCRETE FLATWORK 6" THICK (DRIVEWAY APRONS)
 - 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 29 PAVEMENT MARKING PAINT (4" SOLID WHITE LINE)
 - 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC

NOTE:

1. EXISTING SERVICE LINE INFORMATION:
 806 MONROE - 3/4" COPPER, 5/8" METER
 807 MONROE - 3/4" COPPER, 5/8" METER
 818 MONROE - 3/4" COPPER, 5/8" METER
 819 MONROE - 3/4" COPPER, 5/8" METER
 824 MONROE - 3/4" COPPER, 5/8" METER
 825 MONROE - 3/4" COPPER, 5/8" METER
 836 MONROE - 3/4" COPPER, 5/8" METER
 837 MONROE - 3/4" COPPER, 5/8" METER
 842 MONROE - 3/4" GALVANIZED, 5/8" METER
 843 MONROE - 3/4" COPPER, 5/8" METER
 850 MONROE - 3/4" COPPER, 5/8" METER
 851 MONROE - 3/4" COPPER, 5/8" METER
2. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
3. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
4. EXISTING PRESSURE:
 800 N = 66.51 PSI, 950 N = 63.76 PSI
5. T-PATCH FOR THE PROPOSED WATER LINE IS EXPECTED TO BE 10 FT WIDE AND EXTEND TO THE EAST LIP OF GUTTER.

W3
 SHEET **5** OF **0** REVISION

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE
DRAWN <td>B/M <td>11/13/2023 </td></td>	B/M <td>11/13/2023 </td>	11/13/2023
CHECKED <td>T/DN <td></td> </td>	T/DN <td></td>	

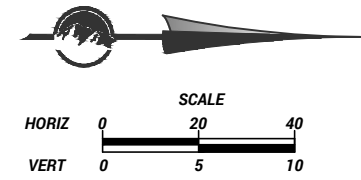
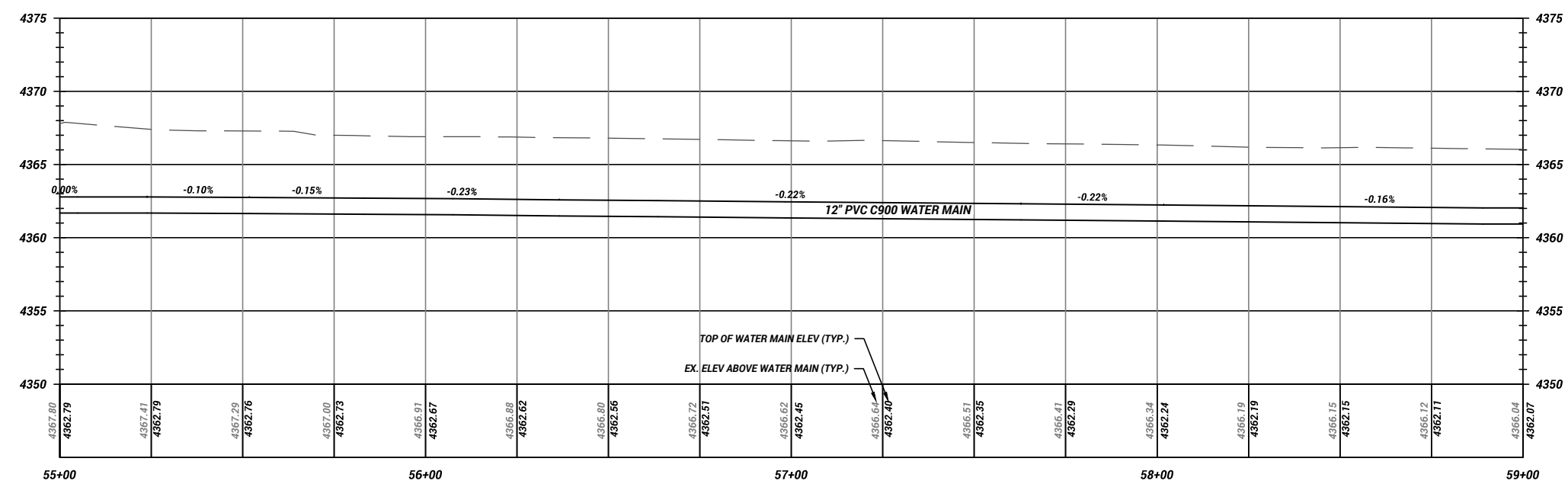
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (22x34)
 This bar measures the original drawing

WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 PLOT DATE: 11/13/2023 3:38 PM
 DRAWING NAME: Monroe Ph 2 W.L.dwg





PROPOSED MONROE BLVD WATER LINE PROFILE



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
- 6 3" MINUS IMPORT GRANULAR BORROW
- 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.
- 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
- 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 11 12" BUTTERFLY VALVE CLASS 250
- 12 EXISTING WATER MAIN CONNECTION
- 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
- 14 1" AWWA C901 CTS POLY SERVICE LINE
- 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
- 22 ADJUST VALVE TO GRADE AND COLLAR
- 24 REMOVE & REPLACE CONCRETE FLATWORK 6" THICK (DRIVEWAY APRONS)
- 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
- 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
- 29 PAVEMENT MARKING PAINT (4" SOLID WHITE LINE)
- 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
- 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC

NOTE:

- 1. EXISTING SERVICE LINE INFORMATION:
 858 MONROE - 3/4" COPPER, 5/8" METER
 859 MONROE - 3/4" COPPER, 5/8" METER
 864 MONROE - 3/4" COPPER, 5/8" METER
 867 MONROE - 3/4" COPPER, 5/8" METER
 872 MONROE - 3/4" GALVANIZED, 5/8" METER
 875 MONROE - 3/4" COPPER, 5/8" METER
 884 MONROE - 3/4" GALVANIZED, 5/8" METER
 887 MONROE - 3/4" COPPER, 5/8" METER
 906 MONROE - 3/4" GALVANIZED, 5/8" METER
 909 MONROE - 3/4" COPPER, 5/8" METER
 924 MONROE - 3/4" GALVANIZED, 5/8" METER
 927 MONROE - 3/4" COPPER, 5/8" METER
 930 MONROE - 3/4" GALVANIZED, 5/8" METER
- 2. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
- 3. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
- 4. EXISTING PRESSURES:
 800 N = 66.51 PSI, 950 N = 63.76 PSI
- 5. DISTURBED STRIPING IS EXPECTED TO BE RESTORED BY THE CONTRACTOR.

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMITS



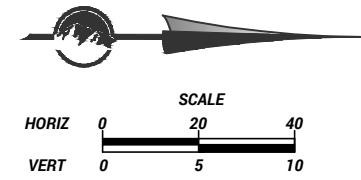
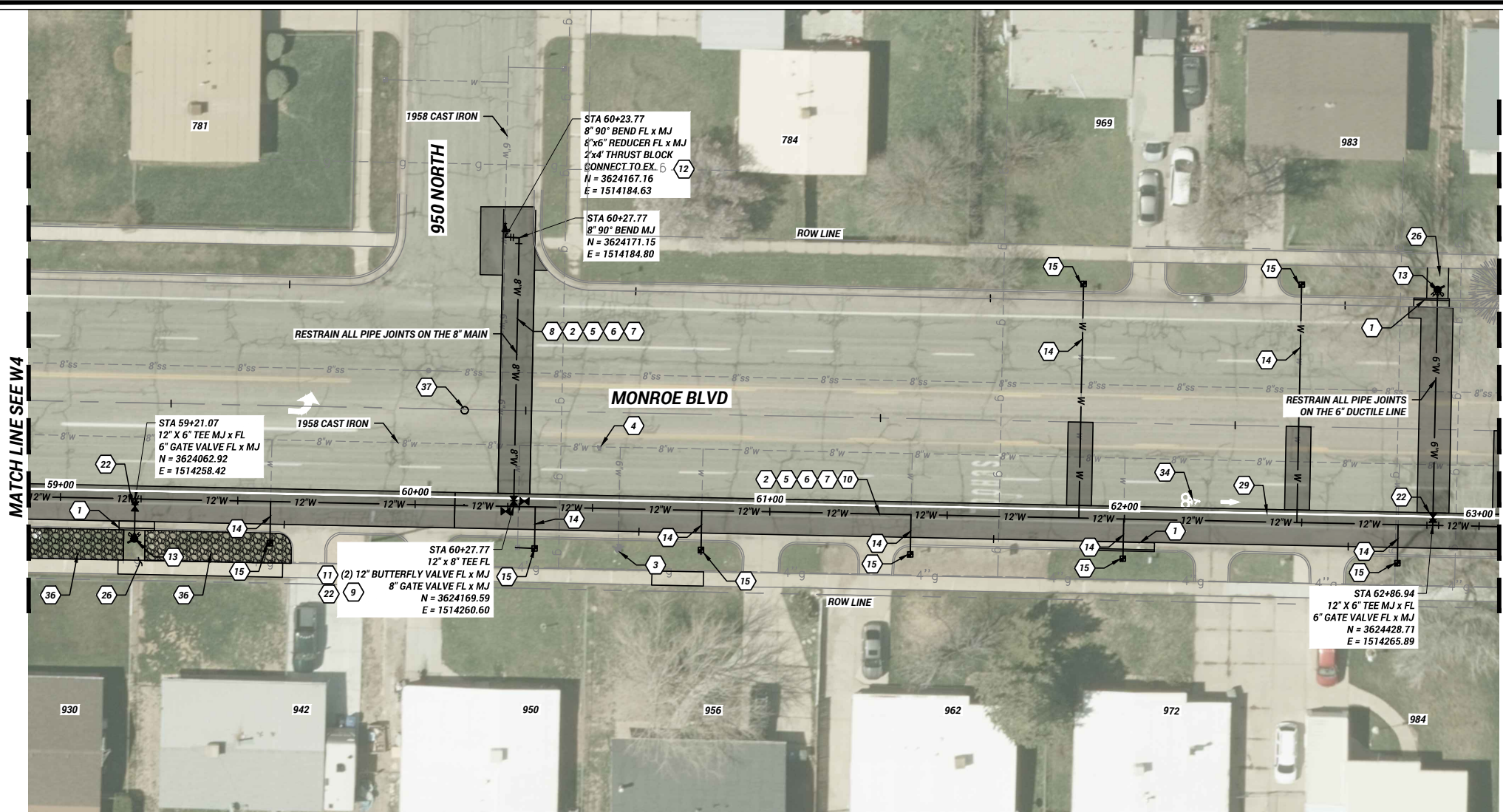
DESIGNED	B/M	DATE
DRAWN	B/M	11/13/2023
CHECKED	T/DN	

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

This drawing is a reproduction of the original drawing.

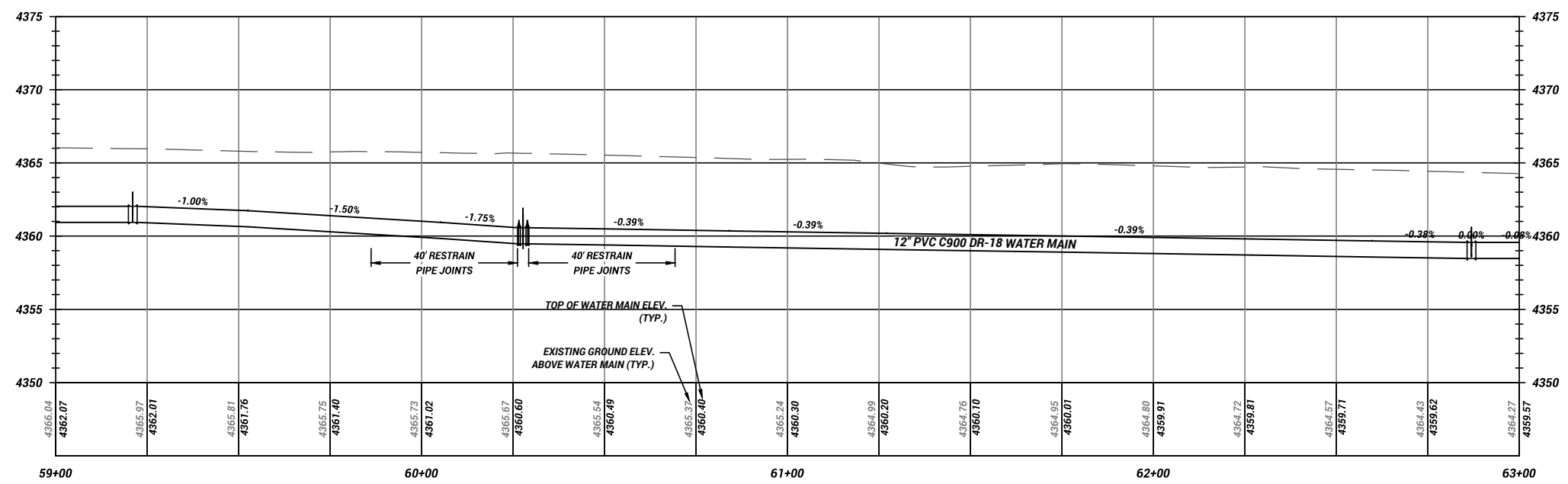
WATER LINE PLAN & PROFILE
 MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 DRAWING NAME: Monroe Ph.2 W.Lx.dwg
 PLOT DATE: 11/13/2023 3:39 PM





- 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
 - 6 3" MINUS IMPORT GRANULAR BORROW
 - 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.
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 - 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 22 ADJUST VALVE TO GRADE AND COLLAR
 - 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 29 PAVEMENT MARKING PAINT (4" SOLID WHITE LINE)
 - 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC
 - 37 INSTALL NEW COVER AND COLLAR FOR EX. SURVEY MONUMENT

PROPOSED MONROE BLVD WATER LINE PROFILE



- NOTE:**
1. EXISTING SERVICE LINE INFORMATION:
 942 MONROE - 3/4" GALVANIZED, 5/8" METER
 950 MONROE - 3/4" GALVANIZED, 5/8" METER
 956 MONROE - 3/4" GALVANIZED, 5/8" METER
 962 MONROE - 3/4" COPPER, 5/8" METER
 969 MONROE - 3/4" GALVANIZED, 5/8" METER
 972 MONROE - 3/4" GALVANIZED, 5/8" METER
 983 MONROE - 3/4" COPPER, 5/8" METER
 984 MONROE - 3/4" COPPER, 5/8" METER
 2. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
 3. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
 4. EXISTING PRESSURES:
 950 N = 63.76 PSI, 1050 N = 64.15 PSI

W5
 SHEET **7**
 REVISION **0**

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION

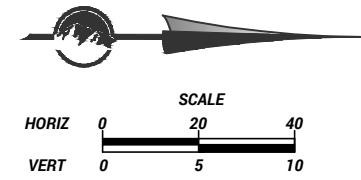
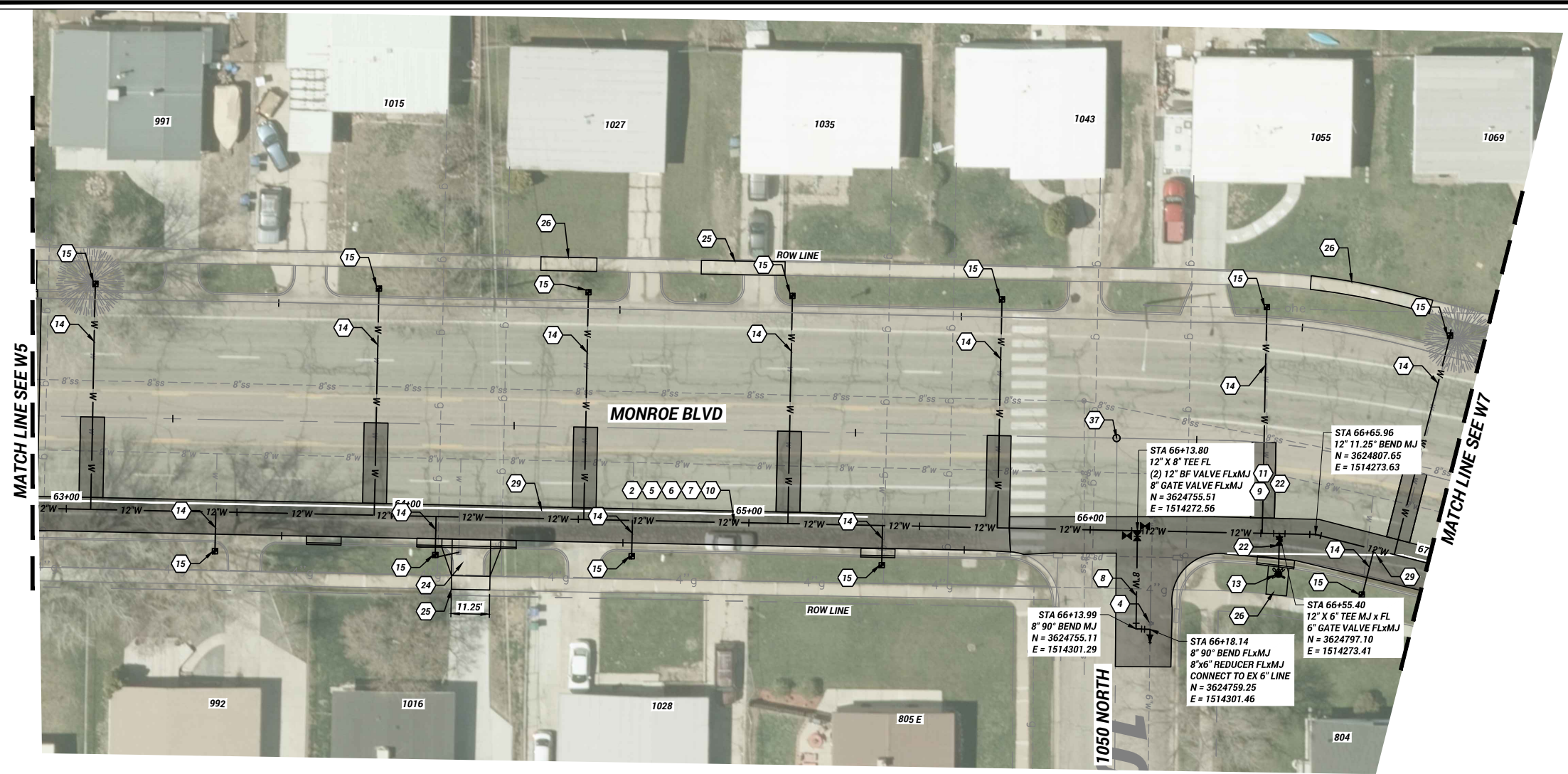


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DRAWN <td>B/M <td>5/8/2023 </td></td>	B/M <td>5/8/2023 </td>	5/8/2023
CHECKED <td>T/DN <td></td> </td>	T/DN <td></td>	

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

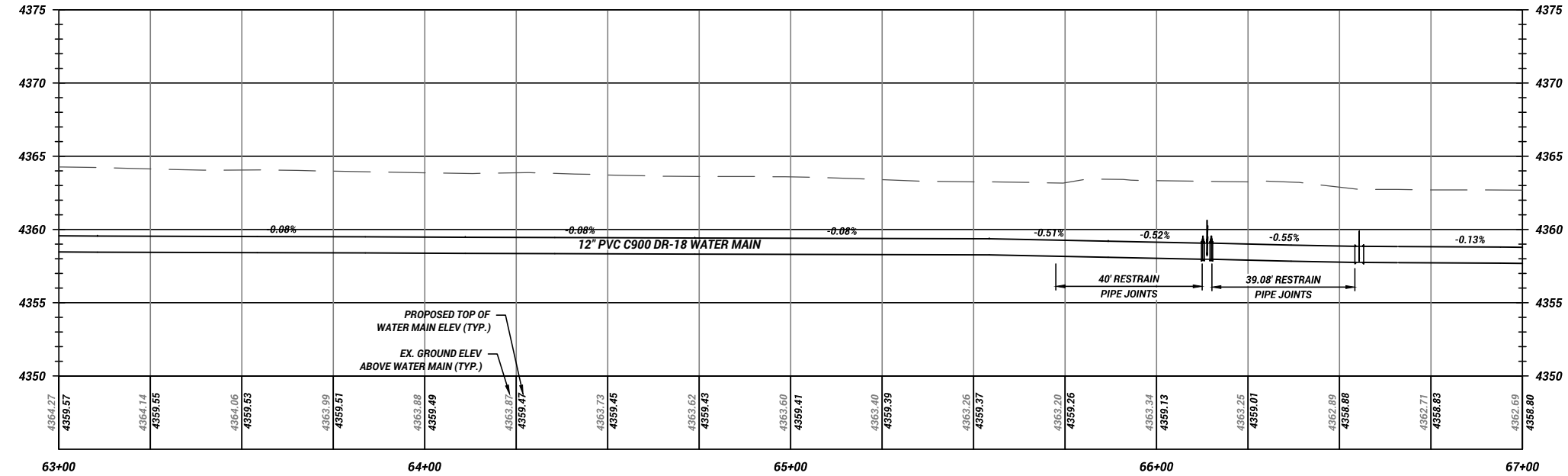
WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 PLOT DATE: 11/13/2023 3:39 PM
 DRAWING NAME: Monroe Ph.2 W.Lx.dwg





- 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
 - 6 3" MINUS IMPORT GRANULAR BORROW
 - 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.
 - 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 11 12" BUTTERFLY VALVE CLASS 250
 - 12 EXISTING WATER MAIN CONNECTION
 - 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 14 1" AWWA C901 CTS POLY SERVICE LINE
 - 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 22 ADJUST VALVE TO GRADE AND COLLAR
 - 24 REMOVE & REPLACE CONCRETE DRIVEWAY 6" THICK (6" THICK BASE)
 - 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 29 PAVEMENT MARKING PAINT (4" SOLID WHITE LINE)
 - 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 37 INSTALL NEW COVER AND COLLAR FOR EX. SURVEY MONUMENT

PROPOSED MONROE BLVD WATER LINE PROFILE



- NOTE:**
1. EXISTING SERVICE LINE INFORMATION:
 991 MONROE - 3/4" GALVANIZED, 5/8" METER
 992 MONROE - 3/4" GALVANIZED, 5/8" METER
 1015 MONROE - 3/4" COPPER, 5/8" METER
 1016 MONROE - 3/4" GALVANIZED, 5/8" METER
 1027 MONROE - 3/4" COPPER, 5/8" METER
 1028 MONROE - 3/4" COPPER, 5/8" METER
 1043 MONROE - 3/4" COPPER, 5/8" METER
 805 E 1050 N - 3/4" GALVANIZED, 5/8" METER
 804 E 1050 N - 1" POLY, 5/8" METER
 1055 MONROE - 3/4" COPPER, 5/8" METER
 1069 MONROE - 3/4" COPPER, 5/8" METER
 2. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
 3. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
 4. EXISTING PRESSURES:
 1050 N = 64.15 PSI
 5. WATER LINE T-PATCH IS ANTICIPATED TO BE 10 FT WIDE AND EXTEND TO THE EAST LIP OF GUTTER.
 6. THE 8" WATER MAIN ON 1050 N MUST HAVE ALL JOINTS RESTRAINED.

REV	DATE	DESCRIPTION
0		ISSUED FOR PERMIT



DESIGNED	DATE
B/M	11/13/2023

DRAWN	DATE
B/M	11/13/2023

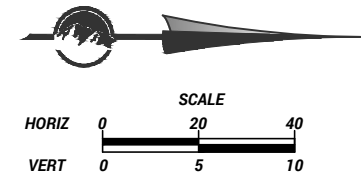
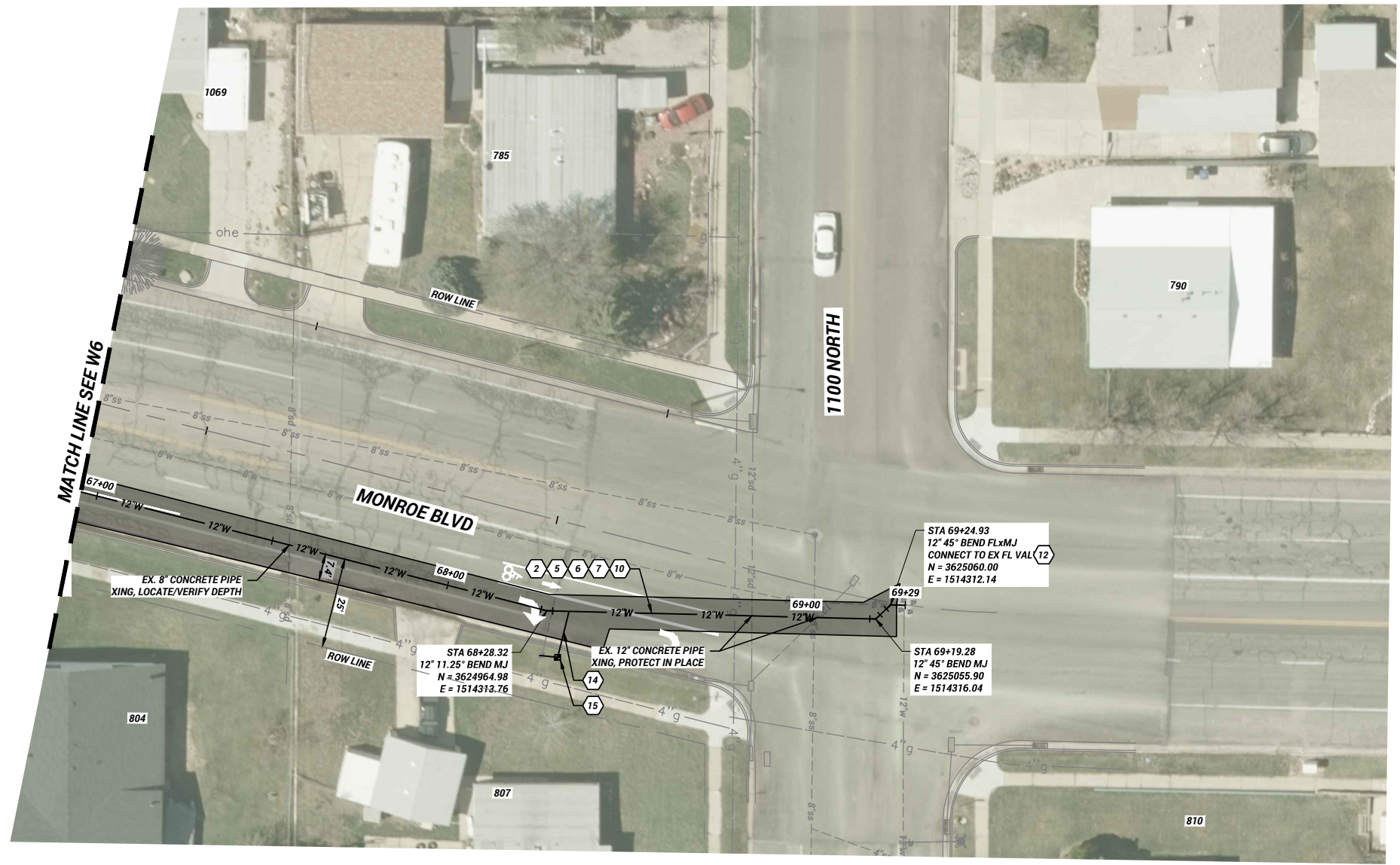
CHECKED	DATE
T/DN	11/13/2023

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (22x34)
 This bar measures the original drawing.

WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N

PLOT DATE: 11/13/2023 3:39 PM
 DRAWING NAME: Monroe Ph.2 W.Lx.dwg





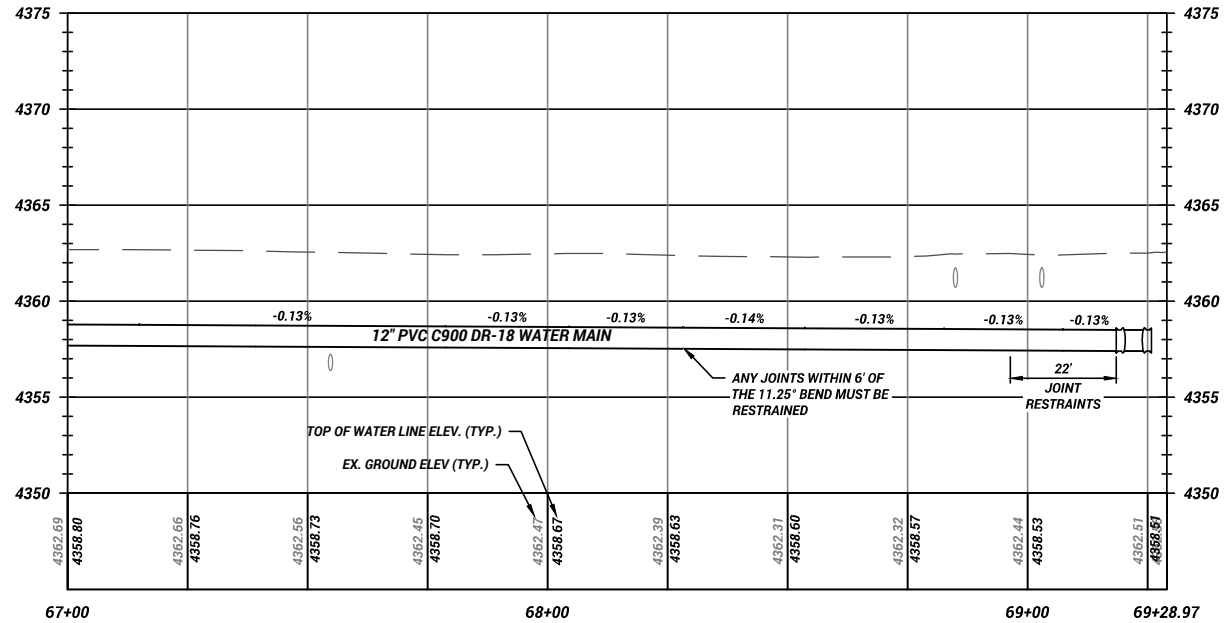
KEYED NOTES:

- 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
- 6 3" MINUS IMPORT GRANULAR BORROW
- 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.
- 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
- 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
- 11 12" BUTTERFLY VALVE CLASS 250
- 12 EXISTING WATER MAIN CONNECTION
- 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
- 14 1" AWWA C901 CTS POLY SERVICE LINE
- 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS

NOTE:

1. EXISTING SERVICE LINE INFORMATION:
807 E 1100 N - 3/4" COPPER, 5/8" METER
2. TRAFFIC IS EXPECTED TO REMAIN OPEN ON MONROE BLVD. ANY TRENCHING MUST BE TEMP PAVED BEFORE ANY TRAFFIC CAN RESUME ON THE TRENCH.
3. ALL EXISTING SEWER LATERALS ON MONROE BLVD SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
4. EXISTING PRESSURES:
1050 N = 64.15 PSI, 1100 N = 63.52 PSI
5. THE WATER LINE T-PATCH IS EXPECTED TO BE 10 FT WIDE AND EXTEND TO THE EAST LIP OF GUTTER.
6. CONTRACTOR IS EXPECTED TO RESTORE ANY STRIPING REMOVED FOR CONSTRUCTION.

PROPOSED MONROE BLVD WATER LINE PROFILE



W7
SHEET **9** OF **0** REVISION

REV	DATE	DESCRIPTION
0		MURPHY

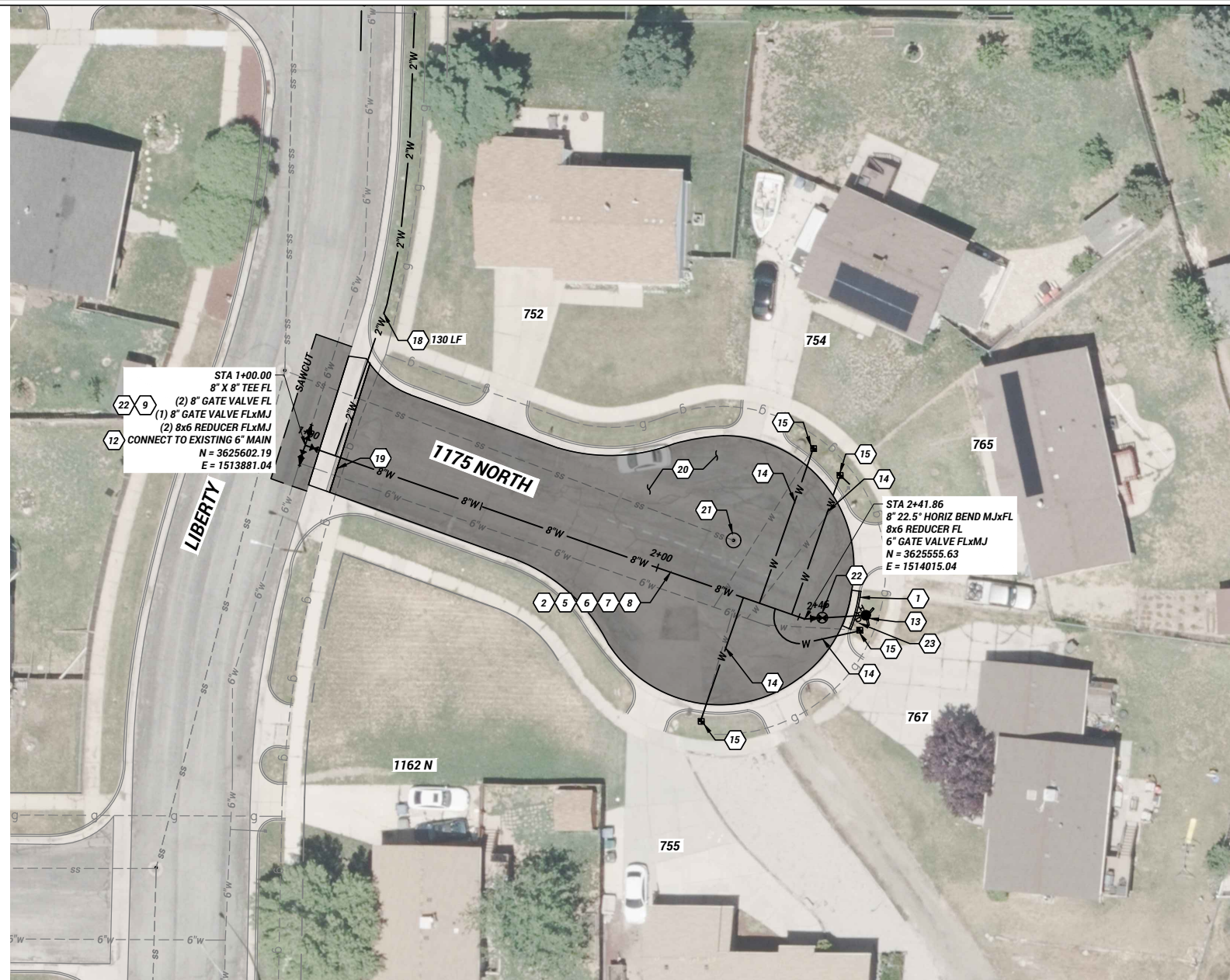


DESIGNED	B/M	DATE
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CHECKED <td>T/DN <td></td> </td>	T/DN <td></td>	

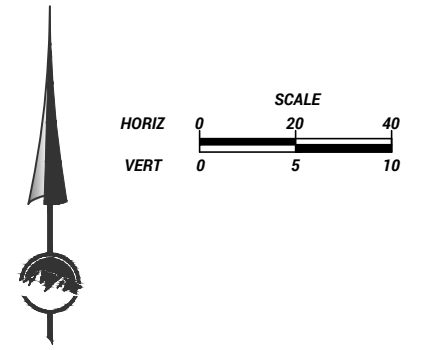
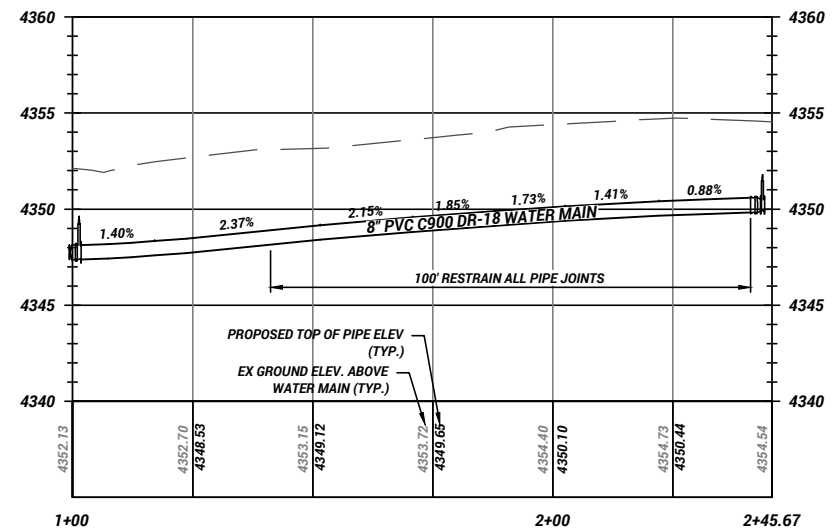
DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (11x17)
 V: 1" = 10' (11x17)

WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 PLOT DATE: 11/13/2023 3:40 PM
 DRAWING NAME: Monroe PH 2 W.L.dwg

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 Phone: 801-629-8980 engineering.ogden-city.com



PROPOSED 1175 N WATER MAIN PROFILE



- 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
 - 6 3" MINUS IMPORT GRANULAR BORROW
 - 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.
 - 8 8" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 9 8" GATE VALVE (CLASS 250) PER STD DWG W-11, W-12
 - 10 12" PVC C900 DR-18 WATER LINE (3/8" MINUS SAND BEDDING)
 - 11 12" BUTTERFLY VALVE CLASS 250
 - 12 EXISTING WATER MAIN CONNECTION
 - 13 FIRE HYDRANT ASSEMBLY PER OGDEN CITY STDS
 - 14 1" AWWA C901 CTS POLY SERVICE LINE
 - 15 1" WATER METER ASSEMBLY PER OGDEN CITY STDS
 - 18 TEMPORARY 2" JUMPER FEED FOR INITIAL WATER FEED
 - 19 REMOVE & REPLACE CONCRETE WATERWAY PER OGDEN CITY STDS
 - 20 2" MILL/OVERLAY
 - 21 LOWER, RAISE, AND COLLAR MANHOLE
 - 22 LOWER, RAISE, AND COLLAR VALVE
 - 23 RESET/REINSTALL EXISTING MAILBOX

- NOTE:**
1. EXISTING SERVICE LINE INFORMATION:
 754 E - 1" COPPER, 3/4" METER
 765 E - 1" COPPER, 3/4" METER
 767 E - 1" COPPER, 3/4" METER
 755 E - 1" POLY, 3/4" METER
 2. ALL SERVICE LATERALS SHOWN HERE WILL NEED TO BE OPEN TRENCHED IN THE ROADWAY, AND PULLED/SHOT BELOW CURB (NO TUNNELING/UNDERMINING).
 3. PROVIDE THE PROPOSED WATER MAIN WITH A TEMPORARY 2" JUMPER LINE FROM THE NEAREST HYDRANT. JUMPER LINE WILL NEED TO BE DISINFECTED AND SAMPLED BEFORE CONNECTING IT TO THE WATER MAIN FOR A WATER FEED.
 4. ALL EXISTING SEWER LATERALS ON 1175 NORTH SHALL BE LOCATED BY THE CONTRACTOR AND SHALL BE VIDEO INSPECTED BOTH BEFORE AND AFTER CONSTRUCTION OF THE WATER LINE (BEFORE PAVING).
 5. EXISTING PRESSURES:
 1175 N TOP OF CUL-DE-SAC = 66 PSI,
 1175 N & LIBERTY = 67 PSI
 6. ALL OF 1175 N CUL-DE-SAC WILL HAVE A 2" MILL/OVERLAY AS PART OF THE CONTRACT, AFTER PATCHING IS COMPLETED.
 7. PROPOSED HYDRANT MODEL DATA:
 STATIC PRESSURE: 66.74 psi
 RESIDUAL PRESSURE @ 1500 gpm: 43.37 psi
 AVAILABLE FLOW @ 20 psi: 2328 gpm
 HYDRANT BONNET/CAPS COLOR: JAY BLUE

W8
 SHEET **70**
 REVISION **0**

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE
▲	▲	11/9/2023

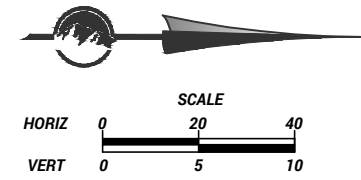
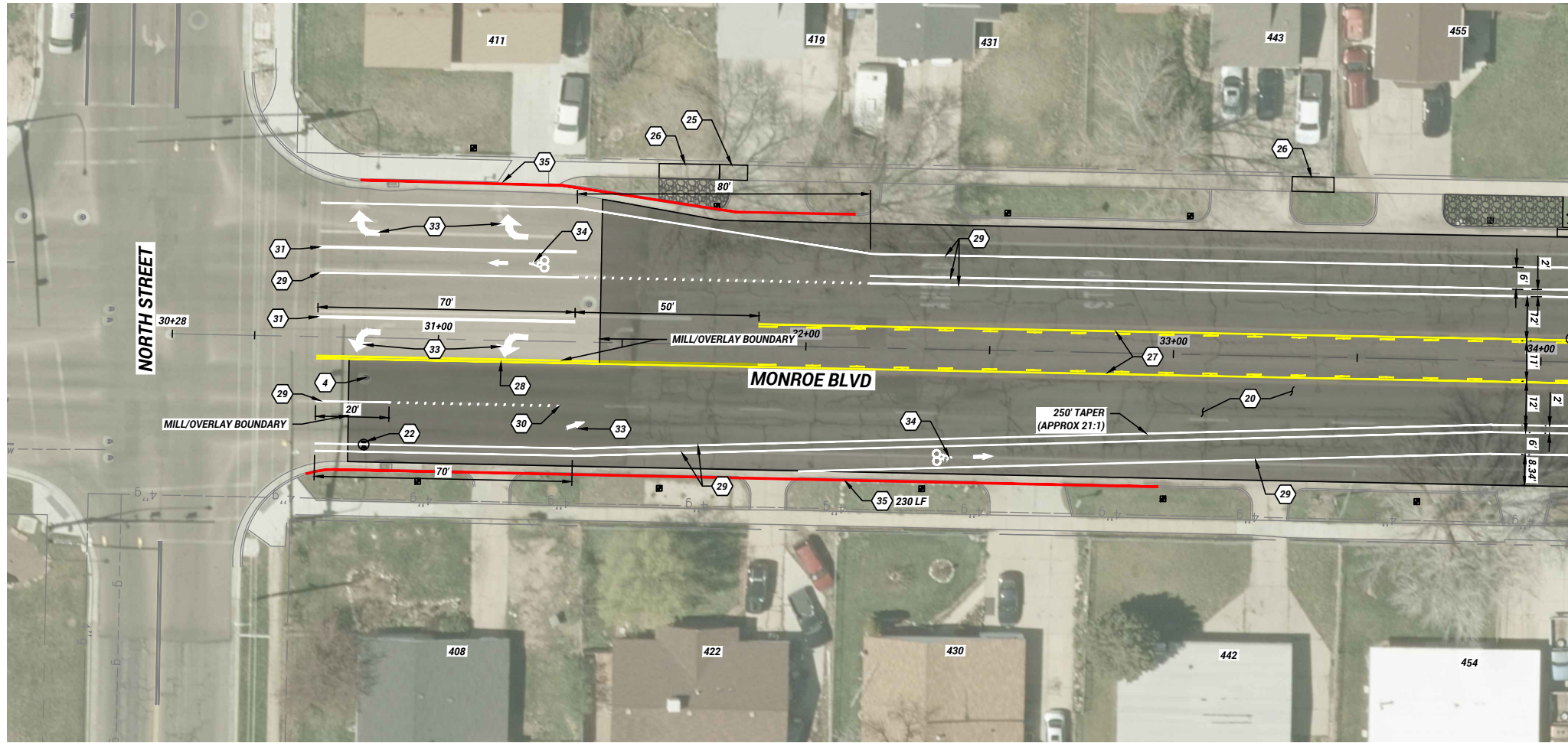
DRAWN	B/M	DATE
▲	▲	11/9/2023

CHECKED	TDN	DATE
▲	▲	11/9/2023

DRAWING SCALE
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 V: 1" = 5' (22x34)
 This bar measures the original drawing.

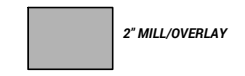
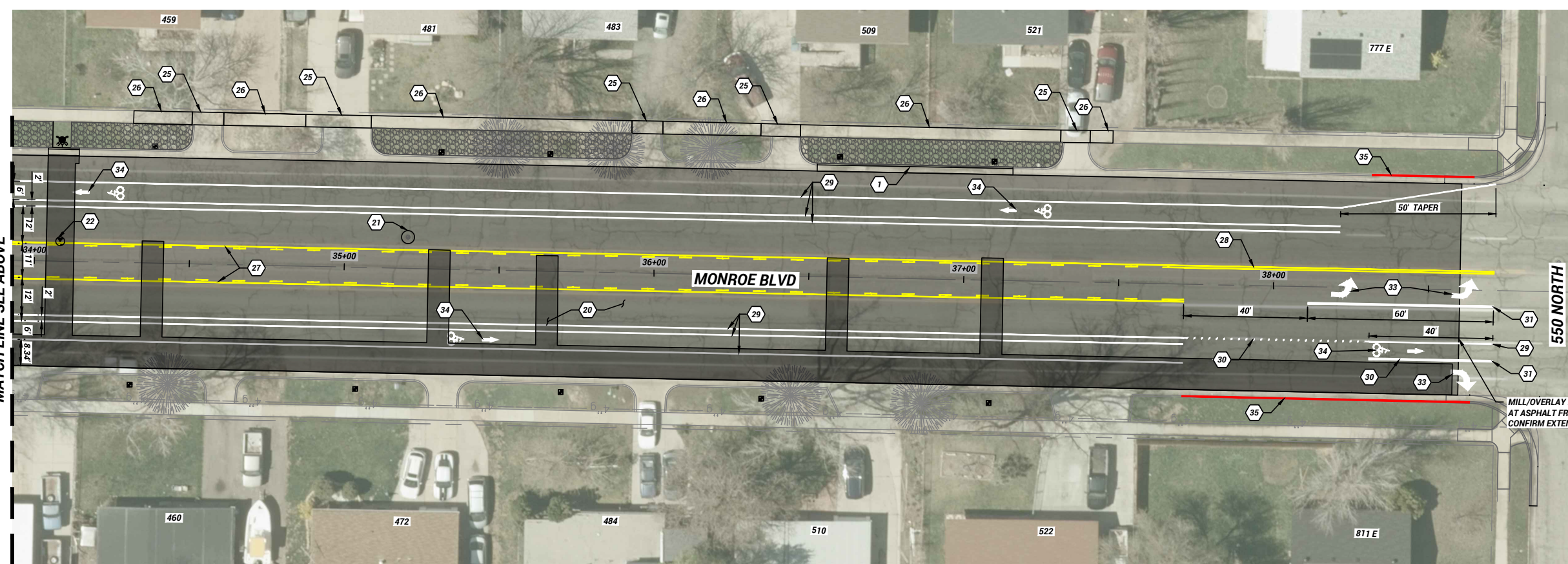
WATER LINE PLAN & PROFILE
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 DRAWING NAME: North City WTR W8.dwg
 PLOT DATE: 11/13/2023 3:41 PM

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.
 - 4 REMOVE VALVE BOX.
 - 20 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
 - 21 EXISTING MANHOLE - ADJUST TO GRADE
 - 22 VALVE BOX - ADJUST TO GRADE
 - 24 REMOVE & REPLACE CONCRETE FLATWORK (DRIVEWAY APRONS, PEDRAMPS) 6" THICK, (6" THICK BASE)
 - 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 27 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
 - 28 PAVEMENT MARKING PAINT (4" DOUBLE YELLOW LINE)
 - 29 PAVEMENT MARKING PAINT (4" SOLID WHITE)
 - 30 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
 - 31 PAVEMENT MARKING PAINT (8" SOLID WHITE)
 - 32 PAVEMENT MARKING PAINT (12" SOLID WHITE)
 - 33 PAVEMENT MESSAGE PAINT (TURN/MERGE ARROW)
 - 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 35 RED CURB PAINTING
 - 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC

MATCH LINE SEE BELOW



- NOTES:**
1. THE DEFAULT LANDSCAPE RESTORATION SHALL BE TOPSOIL/SOD UNLESS SPECIFIED OTHERWISE BY THE ENGINEER OR SHOWN IN THE PLANS.

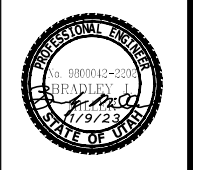
MILL/OVERLAY BOUNDARY AT ASPHALT FROM PH I PROJECT (2023). CONFIRM EXTENTS WITH ENGINEER

MATCH LINE SEE ABOVE

MATCH LINE SEE RD-2

RD1
SHEET **11** OF **0** REVISION

REV	DATE	DESCRIPTION



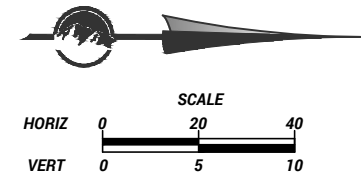
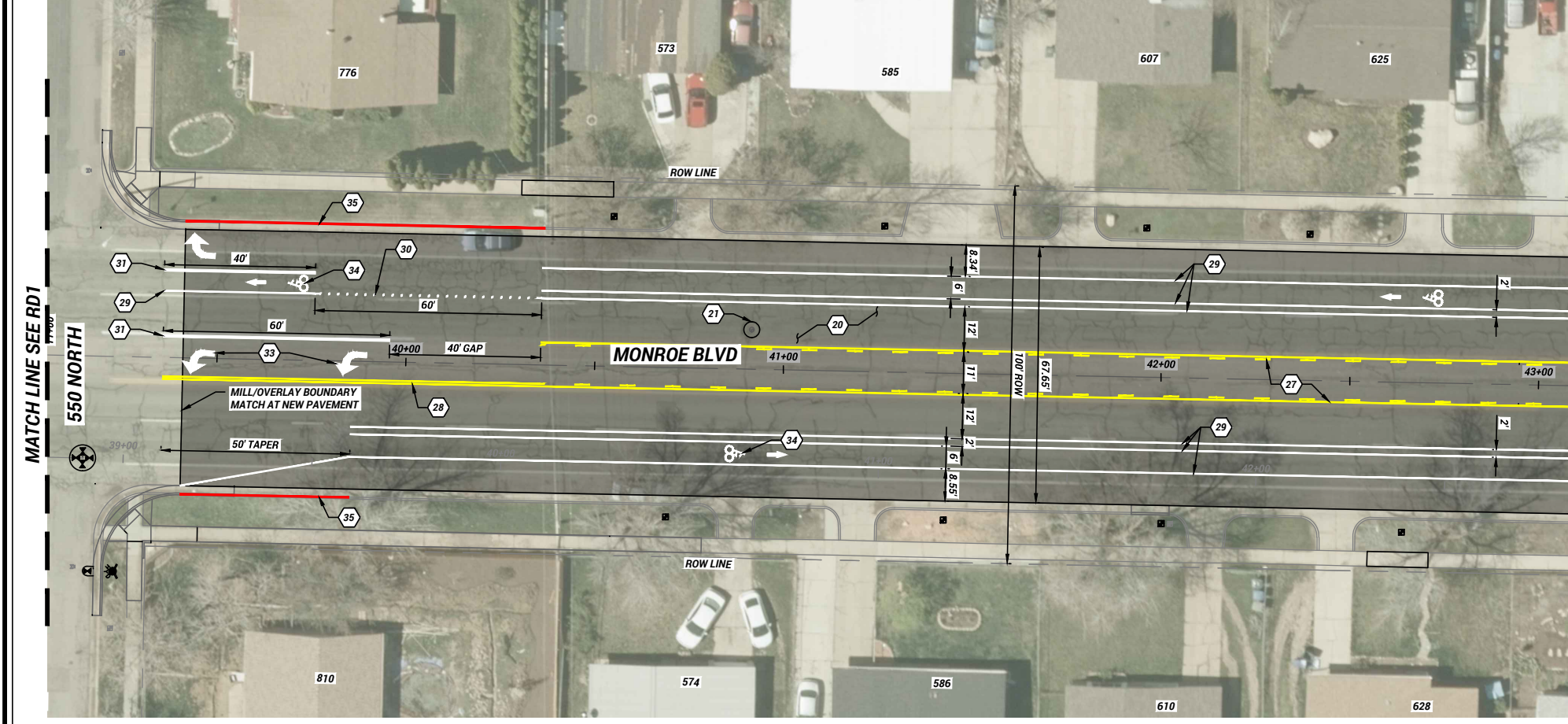
DESIGNED	DRAWN	CHECKED	B/M	T/DN	DATE
					11/13/2023

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

This bar measures the original drawing.

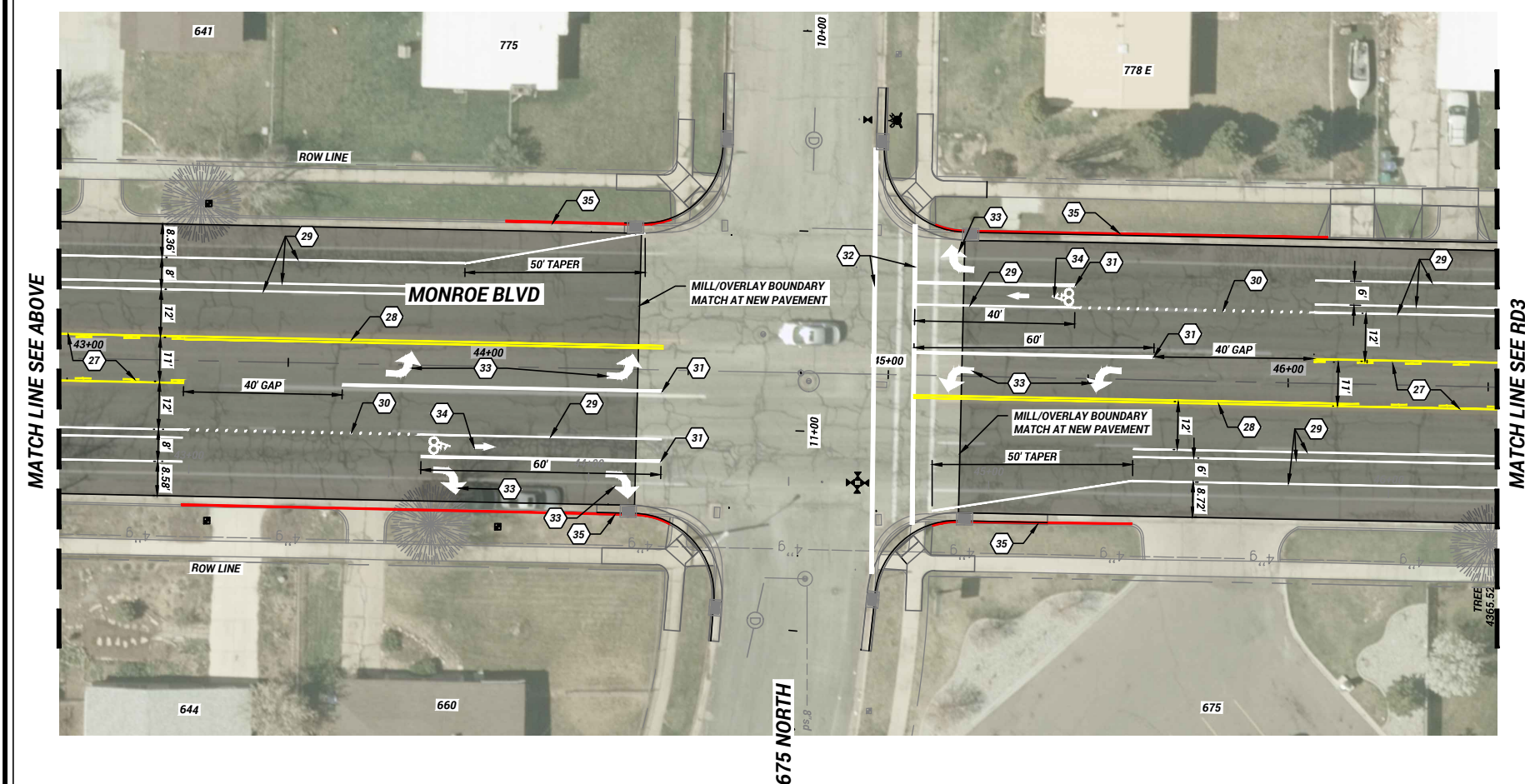
ROADWAY PLAN
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 PLOT DATE: 11/14/2023 10:45 AM
 DRAWING NAME: Monroe PH 2 RD1x.dwg

Ogden UTAH Still Untamed™
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 Phone: 801-629-8980 engineering.ogdencity.com



KEYED NOTES:

- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
- 4 REMOVE VALVE BOX.
- 20 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
- 21 EXISTING MANHOLE - ADJUST TO GRADE
- 22 VALVE BOX - ADJUST TO GRADE
- 24 REMOVE & REPLACE CONCRETE FLATWORK (DRIVEWAY APRONS, PEDRAMPS) 6" THICK, (6" THICK BASE)
- 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
- 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
- 27 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
- 28 PAVEMENT MARKING PAINT (4" DOUBLE YELLOW LINE)
- 29 PAVEMENT MARKING PAINT (4" SOLID WHITE)
- 30 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
- 31 PAVEMENT MARKING PAINT (8" SOLID WHITE)
- 32 PAVEMENT MARKING PAINT (12" SOLID WHITE)
- 33 PAVEMENT MESSAGE PAINT (TURN/MERGE ARROW)
- 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
- 35 RED CURB PAINTING
- 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC



NOTES:

- 1. THE DEFAULT LANDSCAPE RESTORATION SHALL BE TOPSOIL/SOD UNLESS SPECIFIED OTHERWISE BY THE ENGINEER OR SHOWN IN THE PLANS.

RD2
SHEET **12** OF **0** REVISION

REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION

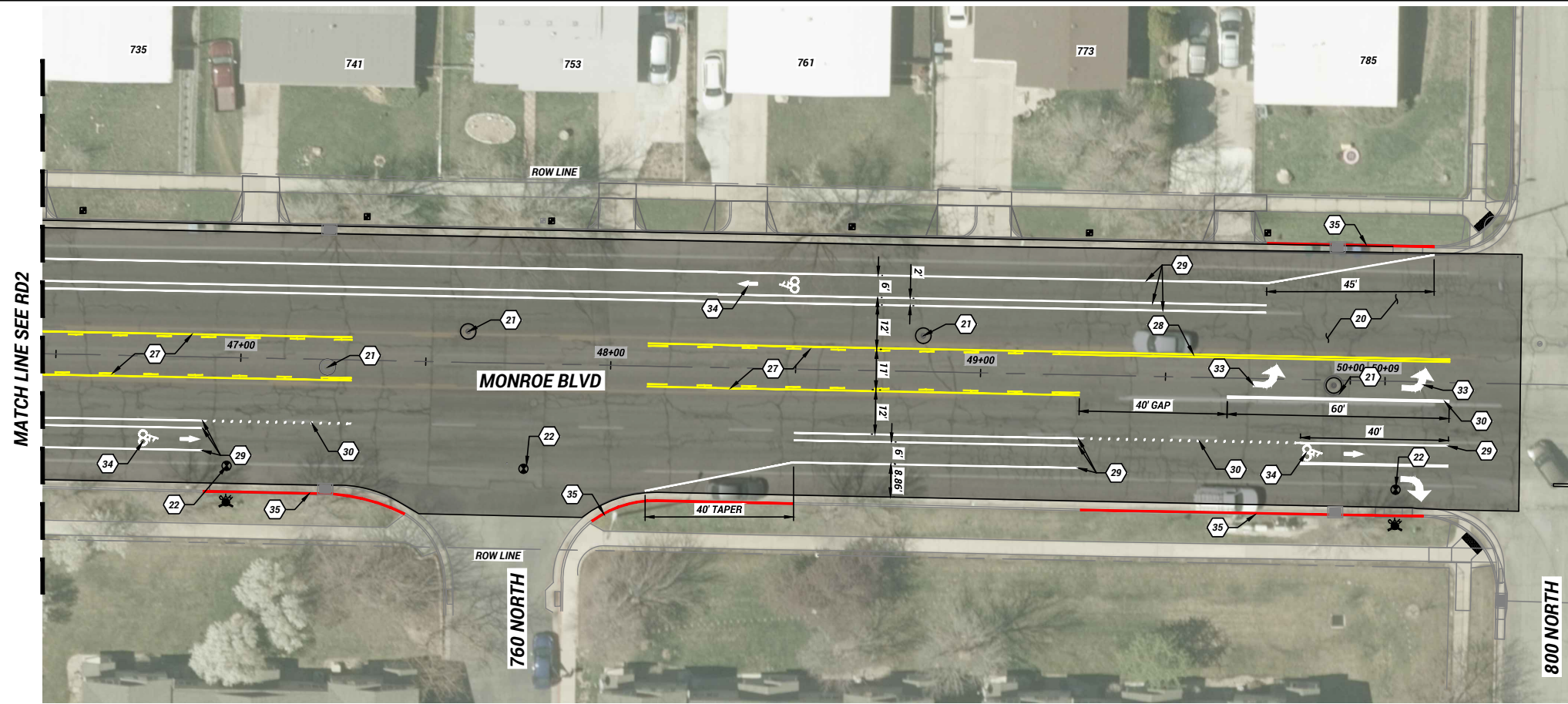


DESIGNED	B/M	DATE
DRAWN	B/M	11/13/2023
CHECKED	T/DN	

DRAWING SCALE
 H: 1" = 20' (22x34)
 V: 1" = 5' (22x34)
 This bar measures the original drawing.

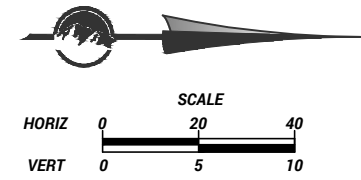
ROADWAY PLAN
MONROE WATER LINE PH II
 MONROE - 400 N TO 1100 N
 PLOT DATE: 11/14/2023 10:45 AM
 DRAWING NAME: Monroe PH 2 RD1x.dwg

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 Phone: 801-629-8980 engineering.ogdenicity.com



MATCH LINE SEE RD2

MATCH LINE SEE BELOW



KEYED NOTES:

- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
- 4 REMOVE VALVE BOX.
- 20 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
- 21 EXISTING MANHOLE - ADJUST TO GRADE
- 22 VALVE BOX - ADJUST TO GRADE
- 24 REMOVE & REPLACE CONCRETE FLATWORK (DRIVEWAY APRONS, PEDRAMPS) 6" THICK, (6" THICK BASE)
- 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
- 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
- 27 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
- 28 PAVEMENT MARKING PAINT (4" DOUBLE YELLOW LINE)
- 29 PAVEMENT MARKING PAINT (4" SOLID WHITE)
- 30 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
- 31 PAVEMENT MARKING PAINT (8" SOLID WHITE)
- 32 PAVEMENT MARKING PAINT (12" SOLID WHITE)
- 33 PAVEMENT MESSAGE PAINT (TURN/MERGE ARROW)
- 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
- 35 RED CURB PAINTING
- 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC

RD3
SHEET **13** OF **0**
REVISION

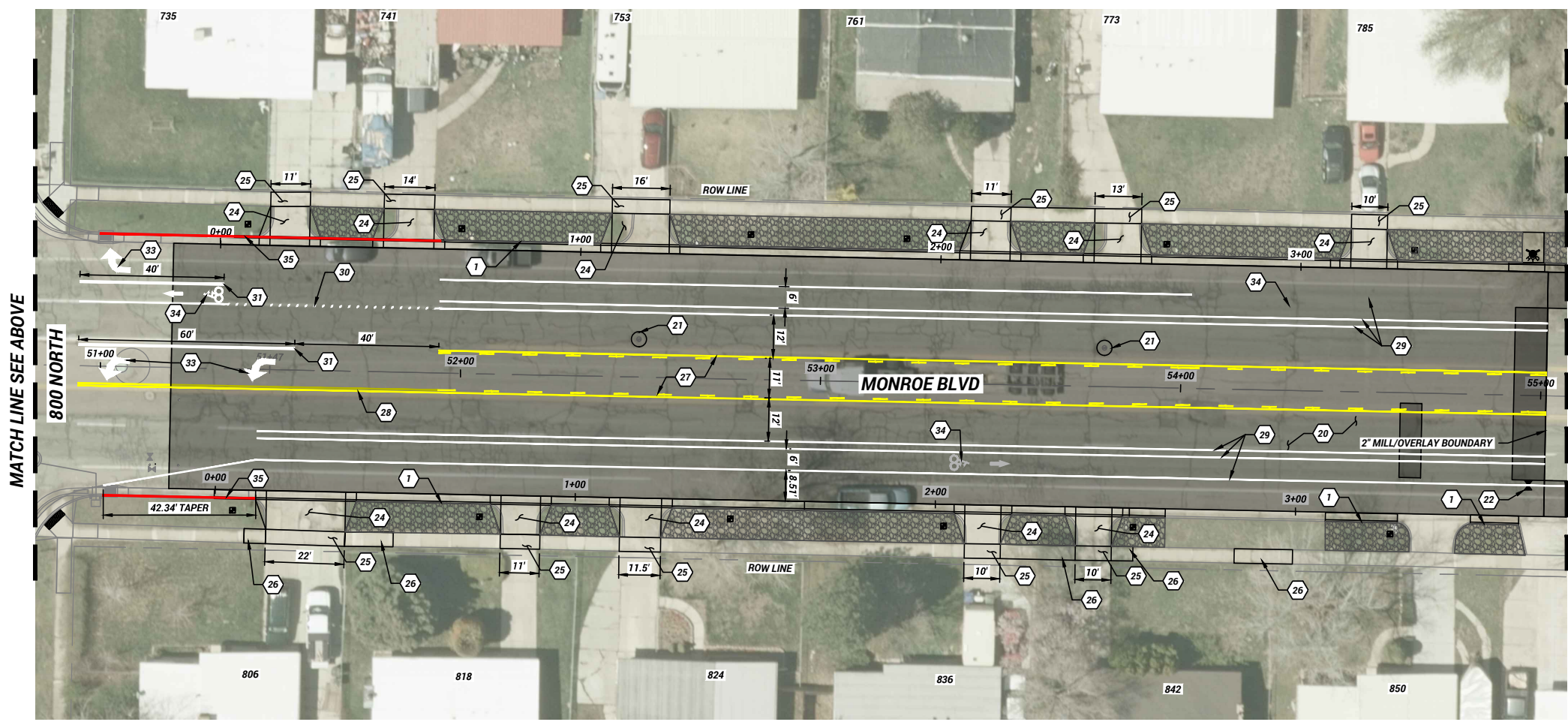
REV	DATE	DESCRIPTION
0		MIDDY DESCRIPTION



DESIGNED	B/M	DATE
DRAWN	B/M	11/13/2023
CHECKED	TDN	

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

This drawing measures are based on the original drawing.



MATCH LINE SEE ABOVE

MATCH LINE SEE RD4

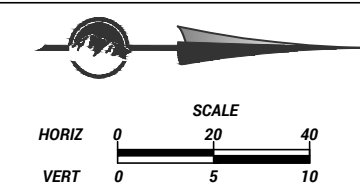
2" MILL/OVERLAY
CONFIRM EXTENTS IN THE
FIELD WITH THE ENGINEER

- NOTES:**
- THE DEFAULT LANDSCAPE RESTORATION SHALL BE TOPSOIL/SOD UNLESS SPECIFIED OTHERWISE BY THE ENGINEER OR SHOWN IN THE PLANS.

ROADWAY PLAN
MONROE WATER LINE PH II
MONROE - 400 N TO 1100 N

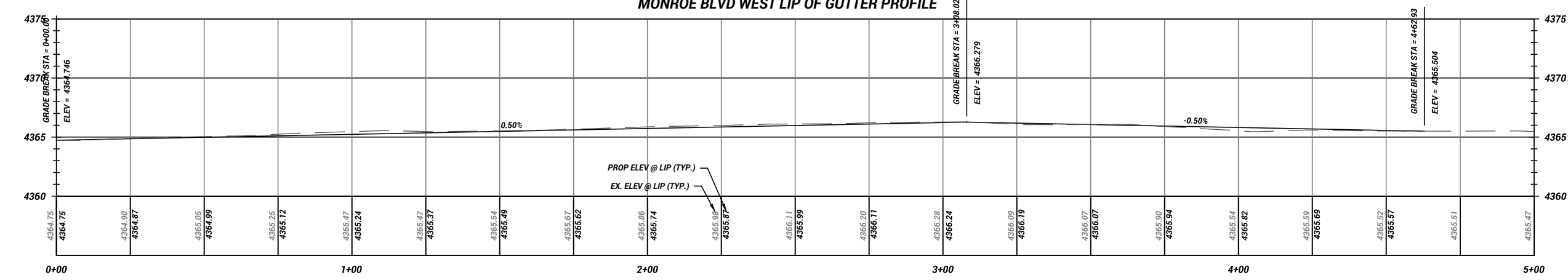
2549 Washington Blvd, Suite 760 Ogden, UT 84401
 Phone: 801-629-8980 engineering.ogden-city.com

DRAWING NAME: Monroe Ph 2 RD3.dwg
 PLOT DATE: 11/14/2023 10:45 AM

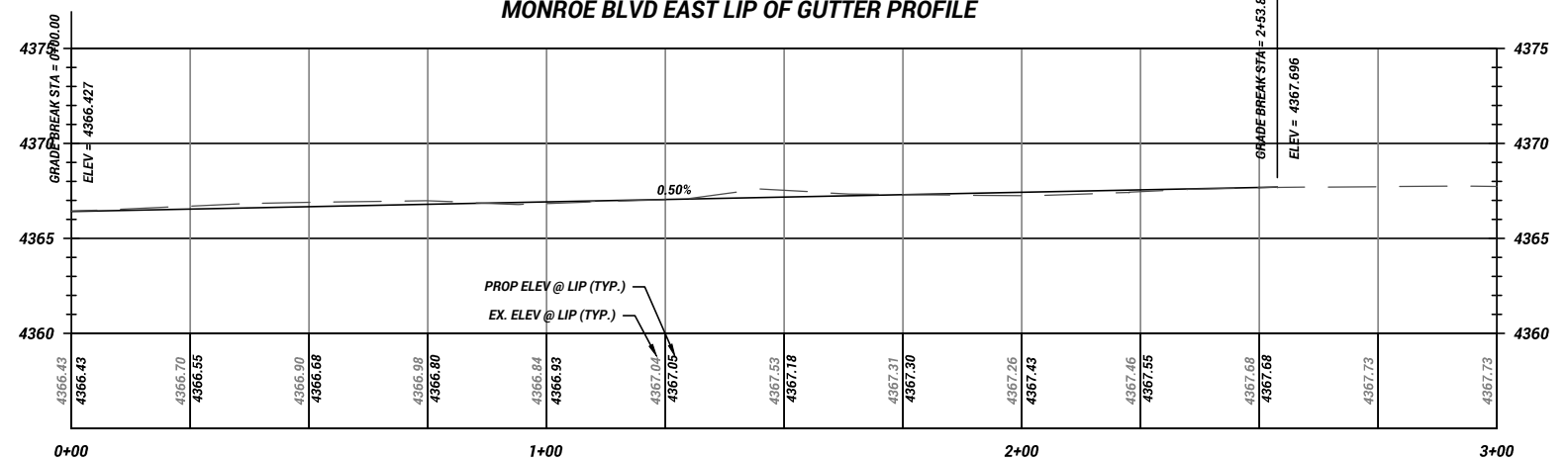


- KEYED NOTES:
- 1 REMOVE AND REPLACE 30", TYPE "A" CONCRETE CURB AND GUTTER PER OGDEN STANDARDS.
 - 4 REMOVE VALVE BOX.
 - 7 HMA T-PATCH (PG 58-28 SP-1/2" CLASS II)
 - 20 2" MILL & OVERLAY (HMA PG 58-28 SP-1/2" CLASS II)
 - 21 EXISTING MANHOLE - ADJUST TO GRADE
 - 22 VALVE BOX - ADJUST TO GRADE
 - 24 REMOVE & REPLACE CONCRETE FLATWORK (DRIVEWAY APRONS, PEDRAMPS) 6" THICK, (6" THICK BASE)
 - 25 REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)
 - 26 REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)
 - 27 PAVEMENT MARKING PAINT (4" YELLOW SKIPPED/SOLID LINE)
 - 28 PAVEMENT MARKING PAINT (4" DOUBLE YELLOW LINE)
 - 29 PAVEMENT MARKING PAINT (4" SOLID WHITE)
 - 30 PAVEMENT MARKING PAINT (4" DOTTED WHITE)
 - 31 PAVEMENT MARKING PAINT (8" SOLID WHITE)
 - 32 PAVEMENT MARKING PAINT (12" SOLID WHITE)
 - 33 PAVEMENT MESSAGE PAINT (TURN/MERGE ARROW)
 - 34 PAVEMENT MESSAGE PAINT (BIKE SYMBOL & ARROW)
 - 35 RED CURB PAINTING
 - 36 2" MINUS NATURAL GRAY LANDSCAPING ROCK & WEED BARRIER FABRIC

MONROE BLVD WEST LIP OF GUTTER PROFILE

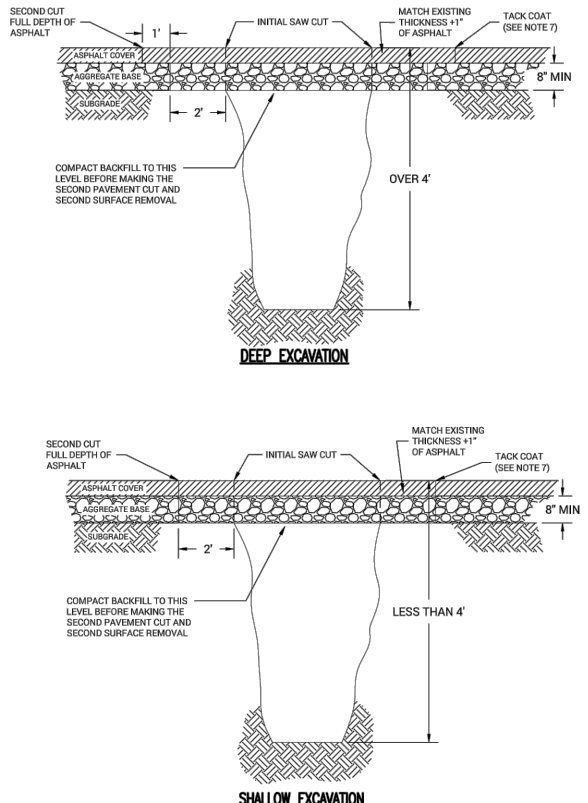


MONROE BLVD EAST LIP OF GUTTER PROFILE

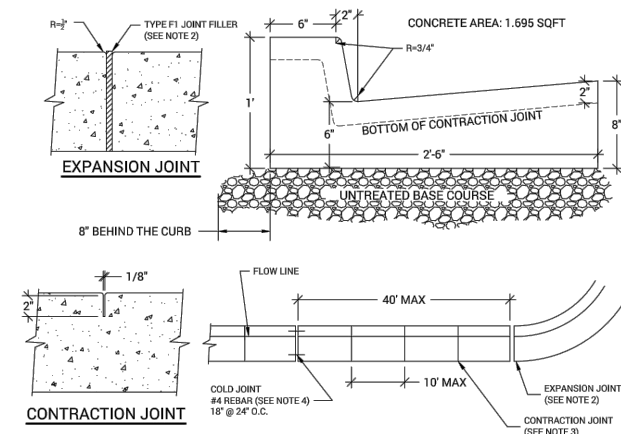


NOTES:
 1. THE DEFAULT LANDSCAPE RESTORATION SHALL BE TOPSOIL/SOD UNLESS SPECIFIED OTHERWISE BY THE ENGINEER OR SHOWN IN THE PLANS.

RD4	SHEET 14	REVISION 0
REV. DATE DESCRIPTION		
DESIGNED	DATE	B/M
DRAWN	11/13/2023	B/M
CHECKED		TDN
ROADWAY PLAN & PROFILE MONROE WATER LINE PH II MONROE - 400 N TO 1100 N		
DRAWING NAME: Monroe Ph 2 RD1x.dwg PLOT DATE: 11/14/2023 10:46 AM		
2549 Washington Blvd, Suite 760 Ogden, UT 84401 Phone: 801-629-8980 engineering.ogdencity.com		

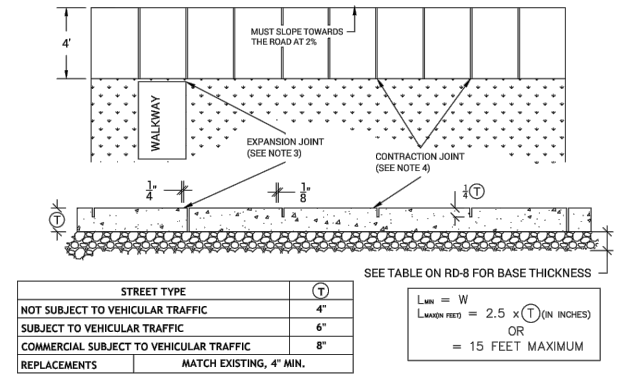


OGDEN CITY ENGINEERING - STANDARD DRAWINGS	
ASPHALT PATCH	RD-3
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 2 2020



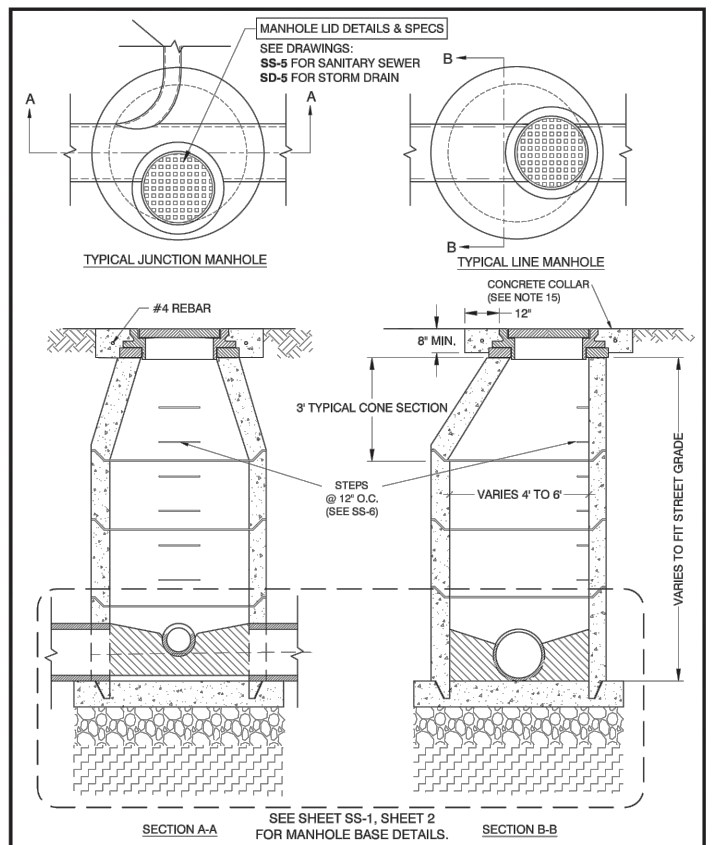
- NOTES:**
- BASE COURSE SHALL BE PER APWA SECTION 32 11 23.
 - EXTEND BASE 8" BEHIND THE CURB AND GUTTER.
 - IF FLOW LINE IS GREATER THAN 0.5 PERCENT (S=0.005), PROVIDE 6" OF COMPACTED BASE COURSE. IF LESS, PROVIDE 8" OF COMPACTED BASE COURSE.
 - COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 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

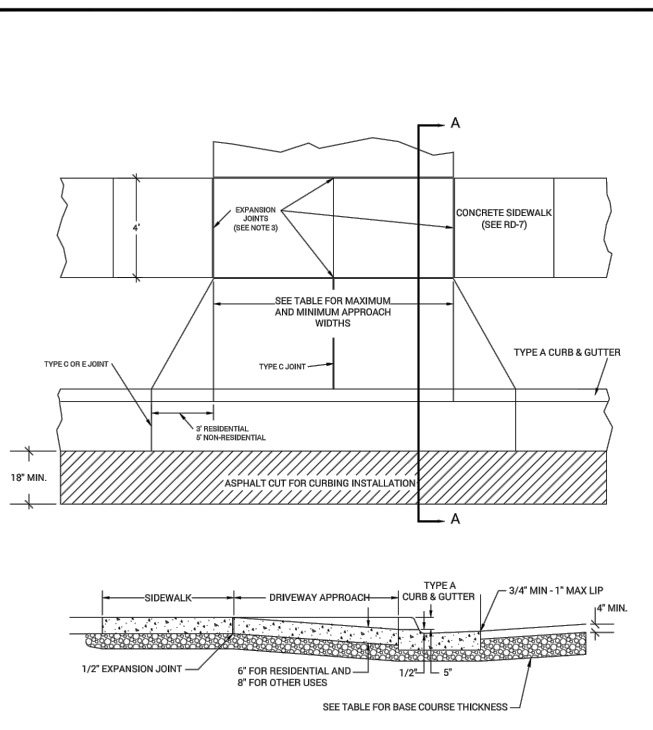


- NOTES:**
- BASE COURSE: PROVIDE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.
 - PLACE MATERIAL PER APWA SECTION 32 05 10.
 - COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING EQUIPMENT AND 6" WHEN USING HAND COMPACTION 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.

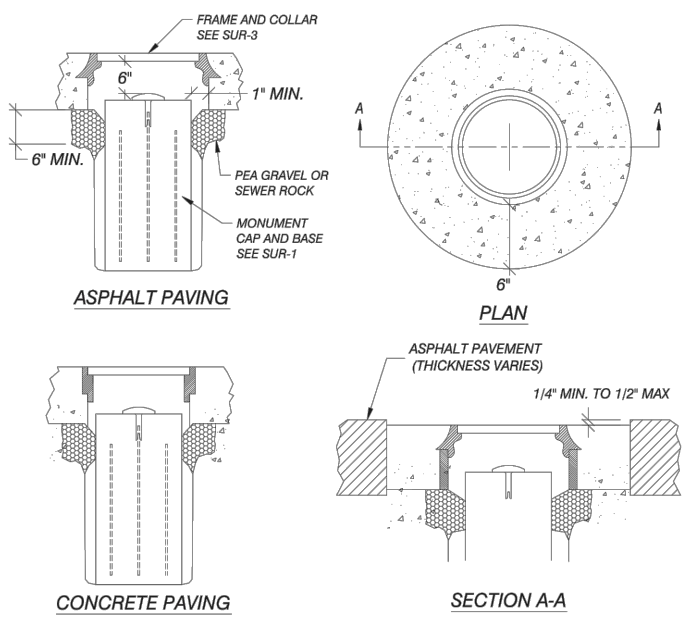
OGDEN CITY ENGINEERING - STANDARD DRAWINGS	
SIDEWALK DETAIL	RD-5
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 1 2020



OGDEN CITY ENGINEERING - STANDARD DRAWINGS	
TYPICAL SEWER MANHOLE	SS-1
JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 4



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

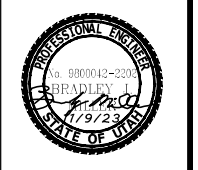
NOTE:
ALL SURVEY MONUMENTS FOR THIS PROJECT ARE ONLY EXPECTED TO HAVE NEW COVERS AND COLLARS.

DT1

SHEET **70**

REVISION **0**

REV.	DATE	DESCRIPTION
0		ISSUED FOR PERMIT



DESIGNED	DATE
DRAWN	6/1/2023
CHECKED	
TDN	

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

DETAILS

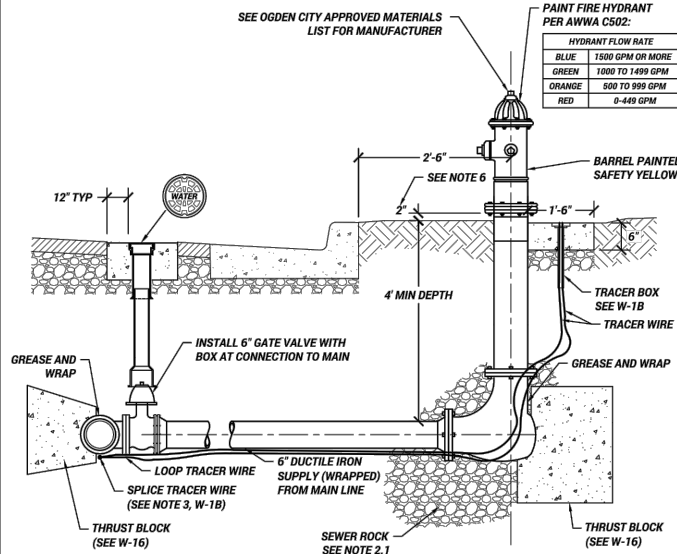
MONROE WATER LINE PH II

MONROE - 400 N TO 1100 N

PLOT DATE: 11/13/2023 3:42 PM

DRAWING NAME: Monroe Ph 2 DT1.dwg



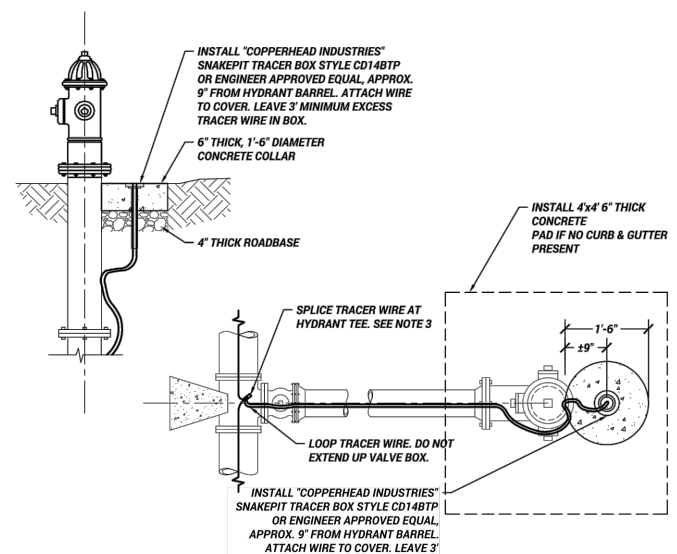


- FIRE HYDRANT NOTES:**
- PROVIDE AND PLACE BACKFILL PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8" WHEN USING RIDING COMPACTION AND 6" WHEN USING HAND HELD COMPACTION EQUIPMENT.
 - HYDRANT: DRY BARREL PER AWWA C502. ADDITIONAL WATER SYSTEM REQUIREMENTS SPECIFIED IN APWA SECTION 33 11 00.
 - 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.
 - APPLY NON-OXIDE GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
 - NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
 - BLACK-WRAP ANY HYDRANT NOT IN SERVICE.
 - THRUST BLOCKS:
 - PRIOR TO POURING CONCRETE, WRAP PIPE SYSTEM WITH 8 MIL THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM.
 - NOT REQUIRED AT THE MAIN FOR FLANGED OR RESTRAINED PIPE SYSTEMS.
 - VALVE BOXES ARE TO BE SLIP-TYPE, ADJUSTED TO GRADE, AND PAVED WITH A CONCRETE COLLAR.
 - INSTALL A 4x4 6" THICK CONCRETE PAD AROUND THE HYDRANT BASE IF NO CURB AND GUTTER IS PRESENT.
 - 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

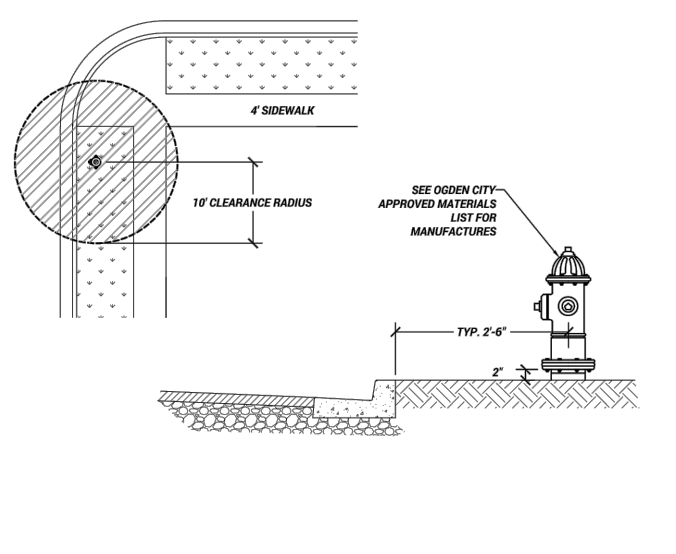


- TRACER WIRE NOTES:**
- TRACER BOX TO BE LOCATED ON BACK SIDE OF HYDRANT UNLESS DIRECTED OTHERWISE BY ENGINEER.
 - ALL TRACER WIRE TO BE 12 GA INSULATED, BLUE TRACER WIRE PLACED BENEATH PIPE.
 - TRACER WIRE SHALL BE COPPER WIRE WITH BLUE INSULATION RATED FOR DIRECT BURIAL. ALL WIRE CONNECTORS SHALL BE 3M DBR DIRECT BURY SPLICE OR ENGINEER APPROVED EQUAL AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
 - 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.
 - 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

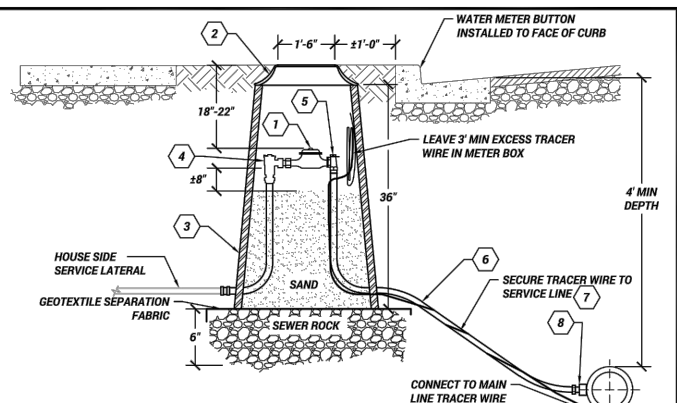


- NOTES:**
- PAINT TOP AND FACE OF CURB, 15' ON BOTH SIDES, WITH RED PAINT TO INDICATE NO PARKING.
 - NO TREES, PLANTS, FLOWERS, SHRUBS, OR ANY OTHER ITEM WHICH MAY OBSTRUCT THE VIEW OR ACCESS TO A FIRE HYDRANT, SHALL BE INSTALLED/PLANTED WITHIN 10' OF ANY FIRE HYDRANT.
 - HYDRANT SHALL BE 2'-6" BEHIND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



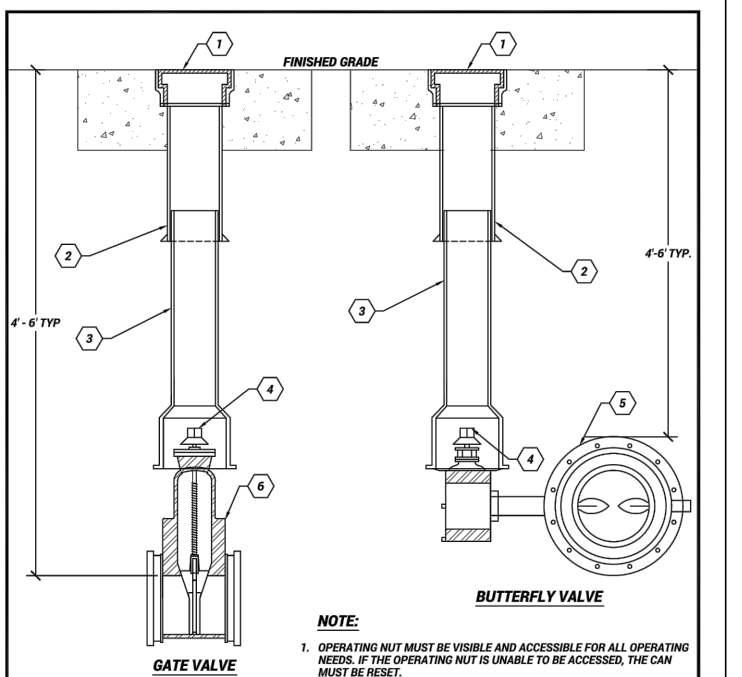
- NOTES:**
- CONTRACTOR TO PROVIDE AND INSTALL ALL MATERIALS AS SHOWN ON THE DETAIL, UNLESS DIRECTED OTHERWISE BY OGDEN CITY WATER. PURCHASE METER BOX FROM OGDEN CITY.
 - METERS TO BE INSTALLED IN THE PARK STRIP, 1' BEHIND THE BACK OF CURB, OR 1' BEHIND THE SIDEWALK WHERE THE SIDEWALK IS ADJACENT TO 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).
 - 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.
 - 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.
 - 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.
 - 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:

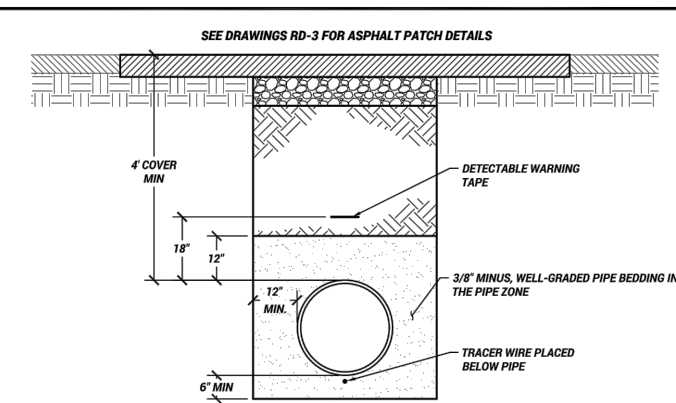
- OPERATING NUT MUST BE VISIBLE AND ACCESSIBLE FOR ALL OPERATING NEEDS. IF THE OPERATING NUT IS UNABLE TO BE ACCESSED, THE CAN MUST BE RESET.

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:**
- 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.
 - INSTALL THE PIPE IN THE CENTER OF THE TRENCH.
 - BASE COURSE PER APWA SECTION 32 11 23.
 - WIDTH OF EXCAVATION IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING.
 - USE 3/8" MINUS WELL-GRADED PIPE BEDDING IMPORT FILL IN THE PIPE ZONE. MAXIMUM LIFT THICKNESS IS 8" BEFORE COMPACTION.
 - DO NOT USE RECYCLED RAP AGGREGATE IN THE TRENCH. IF MANUFACTURER RECOMMENDS ANYTHING CONTRARY TO WHAT IS LISTED BELOW, CONSULT WITH THE ENGINEERING DEPARTMENT.
 - HAUNCHING/BEDDING: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS.
 - WATER JETTING IS NOT ALLOWED.
 - SUBMISSION OF COMPACTION TEST DATA FOR THE HAUNCHING AREAS MAY BE REQUESTED AT ANY TIME.
 - BACKFILL: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. DO NOT PLACE IN LIFTS GREATER THAN 8" BEFORE COMPACTION.
 - 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.
 - PEA GRAVEL IS NOT ALLOWED IN ANY PART OF THE TRENCH.
 - REFER TO APWA SECTION 33 05 07 FOR ADDITIONAL INFORMATION ON PVC PIPE.
 - 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.
 - 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 **0** **REVISION**

76 **SHEET**

REV. DATE DESCRIPTION

0 MIDDY

PROFESSIONAL ENGINEER
No. 9000042-2303
BRADLEY
12/23
STATE OF UTAH

DESIGNED: BJM DATE: 11/13/2023
DRAWN: BJM
CHECKED: TDN
DRAWING SCALE: 1" = 20' (22x34)
1" = 40' (11x17)
1" = 5' (22x34)
1" = 10' (11x17)
This bar measures the original drawing.

DETAILS

MONROE WATER LINE PH II
MONROE - 400 N TO 1100 N

DRAWING NAME: Monroe Ph 2 DT1.dwg
PLOT DATE: 11/13/2023 3:42 PM

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