



Purchasing Division

## ADDENDUM NO. 3

**DATE:** May 10, 2019  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Offerors  
**RE:** 2019 South Downtown Water & Sanitary Sewer Replacement Project  
IFB-4628-19-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Can the City please provide limits of construction for the mill and overlay on Item 77, 10th Street and 3rd Ave.?
  - A. *The City will allow the Contractor to complete the 2" thick mill on both 3<sup>rd</sup> Ave. and 10<sup>th</sup> Street (Sta. 14+50 to 24+10) when the milling machine is on-site.*
2. Q. Plans say sewer 2-way cleanouts to be in with the CI C/O item, but bid schedule says the 2-way cleanouts to be with the service taps. Which one is correct?
  - A. *The Sewer Service Tap pay items #13 through #18 do not include the two-way cleanouts. The two-way cleanout per City Standard Detail SS-07 shall be paid for separately per pay item #19. Attached to this Addendum #3 is an updated Bid Schedule.*
3. Q. Plans page 5- connect to existing 20" water. Do you know what type of pipe is existing?
  - A. *The existing waterline pipe at 9<sup>th</sup> Street and Kimball Ave. is 20" C-905 PVC where the connection is to be made.*
4. Q. Bid item #16, 10x6 swr tap. 1 on bid, none on plans. #19 would be correct without the 10x6 tap?
  - A. *There's a note on sheet 18 for the Contractor to confirm the sewer service size prior to installation of the wye fitting. From the City's CCTV camera inspection video, the service looks larger than a typical 4-inch sewer service, as a result, the City believes the sewer*

*service for ALSCO Textile Cleaning at Station 2+07 on sheet 18 is a 6-inch service. Need to confirm in the field as to if this sewer service is 4" or 6".*

5. Q. Bid item #24, 20" Butterfly vlv. 4 on the bid. 2 on the plans after addendum #2. 1 each page 5 & 8?

*A. The quantity for 20" Butterfly Valves has been changed to two (2). See updated Bid Schedule.*

6. Q. Bid item #44, 20x1 sdl. 3 on the bid. 2 on the plans. 1 each page 6 & 8?

*A. There are three (3) total 20" x 1" Tapping Saddles. One on page #6, one on page #8, and one on page #10.*

7. Q. Bid item #45, 20x2 sdl. 1 on the bid. 2 on the plans. 1 each page 6 & 10?

*A. The quantity for 20" x 2" Tapping Saddle has been changed to two (2). See updated Bid Schedule.*

8. Q. Are there any specs on the 30" steel casing pipe, or would standard 0.375" wall thickness be ok?

*A. Per the Union Pacific Railroad (UPRR) requirements, the 30" steel casing pipe shall have a minimum wall thickness of 0.469-inches nominal with a minimum yield strength of 35 ksi.*

Attached to this Addendum #3 is an updated Special Provision SP-13 SECTION 619 – 30" STEEL CASING BY BORE/JACK

9. Q. On page 5 of the plans, there is a connection to 8" HDPE. Is it known what DR pipe is in the ground to connect to? Is it IPS, DI size?

*A. The existing 8" HDPE pipe in Kimball Ave. should be 8" IPS O.D. I don't know what DR the existing HDPE pipe is. The as-built plans don't provide that information.*

10. Q. on page 10 there are two 20" MJ 45's inside the bubble, but before the cutoff line at station 27+00 that should be on the bid schedule.

*A. These two 20" MJ 45-degree elbows are included in the updated Bid Schedule that is attached.*

11. Q. Bid item #45 - 20" x 2" Tapping Saddle, and Bid item #48 – 2" Corporation Stop, both show a quantity of only one. On the plans, I found a 2" tap on page 6, and another one on page 10 just before the cutoff at station 27+00, by the 20" x 6" MJ Swivel Tee. I thought the bid schedule should be adjusted. Am I thinking correct, or should the second 2" tap be eliminated?

*A. Attached to this Addendum #3 is an updated Bid Schedule that changes the quantity to two (2) total for the Bid Item #45 and Bid Item #48.*

12. The Price Bid Schedule for this Project has been modified/updated. Please see attached. Contractor shall utilize this Addendum #3 Price Bid Schedule when submitting their bid response.

13. Appendix B, Project Special Provisions, for this Project has been modified/updated. Specifically, Special Provision #13, Section 619 – 30” Steel Casing by Bore/Jack has been updated. Please see updated Appendix B attached.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a yellow horizontal line.

Duane Hoff Jr., Senior Buyer  
City of Grand Junction, Colorado

# Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project

## ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	4" Sewer Pipe Service (SDR-35 PVC) (Includes cost of connection to the existing sewer service line)	570.	Lin. Ft.	\$ _____	\$ _____
2	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	167.	Lin. Ft.	\$ _____	\$ _____
3	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	1,329.	Lin. Ft.	\$ _____	\$ _____
4	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	326.	Lin. Ft.	\$ _____	\$ _____
5	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	2,141.	Lin. Ft.	\$ _____	\$ _____
6	108.2	Water Main (4") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	5.	Lin. Ft.	\$ _____	\$ _____
7	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	145.	Lin. Ft.	\$ _____	\$ _____
8	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	140.	Lin. Ft.	\$ _____	\$ _____
9	108.2	Water Main (12") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	66.	Lin. Ft.	\$ _____	\$ _____
10	108.2	Water Main (20") (C-905 PVC, DR-25) (Includes cost of restrained connection to existing pipe)	2,597.	Lin. Ft.	\$ _____	\$ _____
11	108.2	Storm Drain Pipe (18") (ADS Corrugated HDPE Pipe)	49.	Lin. Ft.	\$ _____	\$ _____
12	108.2	Imported Trench Backfill (Class 3) (Includes haul and disposal of unsuitable excavated material) (Assumed material unit weight = 133 lbs/ft <sup>3</sup> )	5,000.	Ton	\$ _____	\$ _____

# Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project

## ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
13	108.3	8" x 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	7.	Each	\$ _____	\$ _____
14	108.3	8" x 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	1.	Each	\$ _____	\$ _____
15	108.3	10" x 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	4.	Each	\$ _____	\$ _____
16	108.3	10" x 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	1.	Each	\$ _____	\$ _____
17	108.3	15" x 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	5.	Each	\$ _____	\$ _____
18	108.3	15" x 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	3.	Each	\$ _____	\$ _____
19	108.3	Install 2-way Sewer Service Cleanout and Ring and Cover (Castings Inc. CO-8030-CI or Approved Equal) (Includes concrete collar in unpaved areas per City Std. Detail SS-07)	20.	Each	\$ _____	\$ _____
20	108.3	Gate Valve (4")	1.	Each	\$ _____	\$ _____
21	108.3	Gate Valve (6")	9.	Each	\$ _____	\$ _____

# Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project

## ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
22	108.3	Gate Valve (8")	3.	Each	\$ _____	\$ _____
23	108.3	Gate Valve (12")	2.	Each	\$ _____	\$ _____
24	108.3	Butterfly Valve (20")	2.	Each	\$ _____	\$ _____
25	108.3	Tee (6" x 6") MJ Swivel Tee (Epoxy Coated)	1.	Each	\$ _____	\$ _____
26	108.3	Tee (8" x 4") MJ Swivel Tee (Epoxy Coated)	1.	Each	\$ _____	\$ _____
27	108.3	Tee (8" x 6") MJ Swivel Tee (Epoxy Coated)	3.	Each	\$ _____	\$ _____
28	108.3	Tee (12" x 12") (Epoxy Coated)	1.	Each	\$ _____	\$ _____
29	108.3	Tee (20" x 6") MJ Swivel Tee (Epoxy Coated)	5.	Each	\$ _____	\$ _____
30	108.3	Tee (20" x 8") MJ Swivel Tee (Epoxy Coated)	3.	Each	\$ _____	\$ _____
31	108.3	Tee (20" x 20") (Epoxy Coated)	1.	Each	\$ _____	\$ _____
32	108.3	Elbow (6" x 45 deg) (Epoxy Coated)	1.	Each	\$ _____	\$ _____
33	108.3	Elbow (8" x 45 deg) (Epoxy Coated)	4.	Each	\$ _____	\$ _____
34	108.3	Elbow (12" x 45 deg) (Epoxy Coated)	4.	Each	\$ _____	\$ _____
35	108.3	Elbow (20" x 45 deg) (Epoxy Coated)	8.	Each	\$ _____	\$ _____
36	108.3	Reducer (20" x 12") (Epoxy Coated)	1.	Each	\$ _____	\$ _____
37	108.3	End Cap/Plug (20") (Includes Concrete Thurstblock per City Std Detail W-07 & W-08)	1.	Each	\$ _____	\$ _____
38	108.3	Fire Hydrant Assembly	7.	Each	\$ _____	\$ _____
39	108.3	8" Welded Flange or Hy-Max Solid Sleeve Restrained Coupling with Stiffener for connection to existing HDPE pipe (8" HDPE Pipe)	1.	Each	\$ _____	\$ _____
40	108.4	Water Service Line (3/4") (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	284.	Lin. Ft.	\$ _____	\$ _____
41	108.4	Water Service Line (1") (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	80.	Lin. Ft.	\$ _____	\$ _____

## Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
42	108.4	Water Service Line (2") (Type K Copper or HDPE 3408) (If lead service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	20.	Lin. Ft.	\$ _____	\$ _____
43	108.4	Tapping Saddle (20" x 3/4")	11.	Each	\$ _____	\$ _____
44	108.4	Tapping Saddle (20" x 1")	3.	Each	\$ _____	\$ _____
45	108.4	Tapping Saddle (20" x 2")	2.	Each	\$ _____	\$ _____
46	108.4	Corporation Stop (3/4")	11.	Each	\$ _____	\$ _____
47	108.4	Corporation Stop (1")	3.	Each	\$ _____	\$ _____
48	108.4	Corporation Stop (2")	2.	Each	\$ _____	\$ _____
49	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02) (No steps required in sewer manholes)	13.	Each	\$ _____	\$ _____
50	108.5	Manhole Barrel Section (D>5') (48" I.D.)	51.	Vert. Ft.	\$ _____	\$ _____
51	108.5	Connect to Existing Manhole (15" pipe) (Doug Jones Sawmill Property manhole)	1.	Each	\$ _____	\$ _____
52	108.5	Storm Sewer Basic Manhole (48" I.D.) (Includes connection to adjacent storm sewer lines and adjusting to final grade) (See City Std. Detail D-03)	1.	Each	\$ _____	\$ _____
53	108.5	Manhole Coating (Castagra Ecodur 201 or Engineer Approved Equal)	72.	Vert. Ft.	\$ _____	\$ _____
54	108.7	Granular Stabilization Material (Type B) (Crushed Rock) (18" Thick Min.) (Includes haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 138 lbs/ft <sup>3</sup> )	1,500.	Ton	\$ _____	\$ _____
55	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	35.	Each	\$ _____	\$ _____
56	202	Abandon Existing Water Valve (Close valve, remove top half of existing valve box, fill cavity to finished subgrade with flow-fill material)	7.	Each	\$ _____	\$ _____

## Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
57	202	Abandon Manhole (Remove cone section, ring & cover, and fill remaining barrel sections with flow-fill material)	5.	Each	\$ _____	\$ _____
58	202	Remove Existing Fire Hydrant (Return Hydrant to City Shops)	7.	Each	\$ _____	\$ _____
59	202	Removal of Existing Pipe (Size & type as shown on plans)	3,375.	Lin. Ft.	\$ _____	\$ _____
60	202	Removal of Asphalt Mat (Full Depth)	3,802.	Sq. Yd.	\$ _____	\$ _____
61	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	4,274.	Sq. Yd.	\$ _____	\$ _____
62	202	Removal of Concrete (Includes, but not limited to, curb, gutter, sidewalk, driveway, slabs, V-pans, curb ramps, intersection corners, aprons, landscape borders, and concrete walls)	1,097.	Sq. Ft.	\$ _____	\$ _____
63	202	Removal of Sod	120.	Sq. Ft.	\$ _____	\$ _____
64	202	Removal of Manhole (Price to include plugging existing abandoned pipes, if any, and removal and disposal of concrete sections)	9.	Each	\$ _____	\$ _____
65	202	Removal of Tree (2" dia.)	1.	Each	\$ _____	\$ _____
66	203	Disposal of Radioactive Material (Dispose at City Shops, 333 West Ave.)	75.	Cu. Yd.	\$ _____	\$ _____
67	206	Structure Backfill (Flow-Fill) (This flow-fill quantity takes into account the flow-fill quantity necessary for Abandon Existing Water Valve, and Abandon Manhole)	30.	Cu. Yd.	\$ _____	\$ _____
68	208	Storm Drain Inlet Protection (Gravel Filter at Curb Inlet) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	19.	Each	\$ _____	\$ _____
69	208	Concrete Washout Facility	1.	Lump Sum	---	\$ _____
70	210	Reset Landscape Ground Cover (Match in Kind) (Contractor shall remove ground cover and underlying weed barrier as needed and stockpile materials. Contractor shall reset these materials and provide additional materials as needed)	364.	Sq. Ft.	\$ _____	\$ _____



# Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project

## ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
71	210	Reset Sprinkler System (Complete in Place) (Various Locations)	1.	Lump Sum	---	\$ _____
72	210	Reset Fence (5' High Chain-Link)	30.	Lin. Ft.	\$ _____	\$ _____
73	210	Reset Fence (6' High Chain-Link w/ Barbed Wire Top)	120.	Lin. Ft.	\$ _____	\$ _____
74	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	120.	Sq. Ft.	\$ _____	\$ _____
75	304	Aggregate Base Course (Class 6) (4" thick) (Shoulder Base)	160.	Sq. Yd.	\$ _____	\$ _____
76	304	Aggregate Base Course (Class 6) (15" thick)	3,833.	Sq. Yd.	\$ _____	\$ _____
77	401	Hot Bituminous Pavement (2" Thick) (Grading SX, PG 64-22, GYR.=75) (Mill & Fill Overlay) (3rd Ave. & 10th Street)	2,057.	Sq. Yd.	\$ _____	\$ _____
78	401	Hot Bituminous Pavement (Patching) (3 " Thick) (Grading SX, PG 64-22) (GYR.=75) (One 3" Lift Bottom Mat)	2,710.	Sq. Yd.	\$ _____	\$ _____
79	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (One 2" Top Mat) <b>(T-Top)</b>	2,217.	Sq. Yd.	\$ _____	\$ _____
80	401	Hot Bituminous Pavement (Patching) (5 " Thick) (Grading SX, PG 64-22) (GYR.=75) (3" Bottom Mat, 2" Top Mat) (9th Street & 15th Street only due to City's 2019 Asphalt Overlay Project)	1,092.	Sq. Yd.	\$ _____	\$ _____
81	407	Emulsified Asphalt (Tack Coat)	900.	Gallon	\$ _____	\$ _____
82	420	Geotextile (Separator) (Non-Woven) (Wrap stabilization material with fabric) (Minimum Overlap = 24") (As Needed)	1,500.	Sq. Yd.	\$ _____	\$ _____
83	608	Concrete Drainage Pan (3' Wide) (Match in Kind)	4.	Sq. Yd.	\$ _____	\$ _____
84	608	Concrete Drainage Pan (4' Wide) (Match in Kind)	12.	Sq. Yd.	\$ _____	\$ _____
85	608	Concrete Curb and Gutter (2' Wide) (Match in Kind)	180.	Lin. Ft.	\$ _____	\$ _____

## Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
86	608	Concrete Valley Gutter (2' Wide) (Match in Kind)	50.	Lin. Ft.	\$ _____	\$ _____
87	608	Concrete Curb (6" Wide x 12" High) (Match in Kind)	20.	Lin. Ft.	\$ _____	\$ _____
88	608	Concrete Sidewalk (4" Thick) (Match in Kind)	31.	Sq. Yd.	\$ _____	\$ _____
89	608	Concrete Pavement (6" Thick) (CDOT Class D, 4500 psi Mix)	27.	Sq. Yd.	\$ _____	\$ _____
90	608	Cap Top Half of Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	2.	Each	\$ _____	\$ _____
91	608	Encase Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	1.	Each	\$ _____	\$ _____
92	619	30" Steel Casing Pipe (Bore/Jack)	30.	Lin. Ft.	\$ _____	\$ _____
93	619	30" Casing Pipe End Caps	2.	Each	\$ _____	\$ _____
94	619	Cascade Waterworks Casing Spacers or Engineer Approved Equal (Spacing and Installation shall be per Manufacturer's Recommendation)	1.	Lump Sum	---	\$ _____
95	620	Portable Sanitary Facility	1.	Each	\$ _____	\$ _____
96	625	Construction Surveying (Includes As-Built Drawings)	1.	Lump Sum	---	\$ _____
97	626	Mobilization	1.	Lump Sum	---	\$ _____
98	630	Traffic Control Plan	1.	Lump Sum	---	\$ _____
99	630	Traffic Control (Complete in Place)	1.	Lump Sum	---	\$ _____
100	630	Flagging	1,400.	Hour	\$ _____	\$ _____
101	SP	Reconfigure Manhole Bench (C3-271-031)	1.	Lump Sum	---	\$ _____
102	SP	Coordination with Doug Jones Sawmill Property (Temporarily relocate lumber for sewer installation and then place back lumber in same location)	1.	Lump Sum	---	\$ _____
103	SC 3.3.18	Quality Control Testing	1.	Lump Sum	---	\$ _____

# Bid Schedule: 2019 South Downtown Water & Sewer Replacement Project ADDENDUM #3

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
104	Pump	Bypass Sewage Pumping (At Contractors Discretion)	1.	Lump Sum	---	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ <u>100,000.00</u>
<b>Bid Amount:</b>						\$ _____

**Bid Amount:**

dollars

<b>Contractor Name:</b>
<b>Contractor Address:</b>
<b>Contractor Phone #:</b>

# **Appendix B**

## **Project Special Provisions**

**2019 South Downtown Water & Sanitary Sewer Replacement Project**

**SPECIAL PROVISIONS**

**GENERAL:**

The descriptions of the pay items listed in the Bid Schedule for this Project may not agree with those listed in the Standard Specifications. Payment for all Work performed, as required in the Contract Documents, will be in accordance with the items and units listed in the Bid Schedule.

**STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:**

The *City of Grand Junction Standard Specifications for Road and Bridge Construction* are hereby modified or supplemented for this Project by the following modifications to *The Standard Specifications for Road and Bridge Construction*, State Department of Highways, Division of Highways, State of Colorado:

**SP-1 SECTION 208 – EROSION CONTROL**

Section 208 of the Standard Specifications is hereby revised for this project as follows:

Subsection 208.04 shall include the following:

If groundwater within the new water line trenches is encountered and requires dewatering, the dewatering pump shall have a filter sock attached to the end of the discharge hose. This will prevent sediment in the discharge water from entering into the City's storm drainage system. The contractor will be responsible for monitoring the levels of sediment within the filter sock and replacing the filter sock when it reaches 50% of its holding capacity. It will also be the responsibility of the contractor to obtain the Dewatering Permit from the Colorado Department of Public Health and Environment if necessary.

Any of the materials to be installed or used for the installation of the sewer line shall be stored within the construction area where the Contractor is working unless permission is granted to store materials elsewhere. Any glues and/or adhesives necessary shall be contained at all times within a spill proof and waterproof container when not being used.

All vehicle and equipment maintenance and fueling shall be performed in a designated area within the construction area that will not interfere with roadway traffic operations unless traffic control is provided. The fueling area shall exhibit Best Management Practices in order to minimize and/or eliminate the potential of fuel spillage. Any spillage of fuel onto the ground shall be immediately cleaned up and any contaminated soil disposed of properly at the Mesa County Landfill. Documentation of spills, leaks and overflows that result in the discharge of pollutants, including logging and reporting of the spill is required to the Water

Quality Control Division at their toll-free 24-hour environmental emergency spill reporting line – 1-877-518-5608.

The Contractor shall clear the site of all on-site waste daily, including scrap from construction materials.

Concrete trucks will be required to wash out in a portable concrete washout pool supplied by the Contractor or the concrete truck can wait to washout back at the concrete batching facility. The Contractor will be responsible for maintaining the washout pool. The washout pool shall be cleaned out and/or replaced when the washout pool reaches 50% of total capacity. The concrete washout pool needs to be dynamic and durable in its ability to be moved with the progress of construction.

The Contractor shall clear the site of all trash and litter daily. Portable toilets will be maintained (cleaned and emptied) by a local supplier.

### **SP-2 SECTION 420 – GEOSYNTHETICS**

Section 420 of the Standard Specification is hereby revised for this project as follows:

Subsection 420.02 in the City of Grand Junction’s Standard Specifications shall include the following:

The materials supplied for the “Geotextile (Non-Woven Separator for use with Type B Granular Stabilization Material)” shall be Contech C-60NW or Nilex NW60, or approved equal. Where specified by the Engineer, Geotextile shall be installed per Std. Detail GU-03.

### **SP-3 SECTION 601 – STRUCTURAL CONCRETE**

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Delete subsection 601.02 from the City of Grand Junction Standard Specifications and replace with the following:

Concrete for construction of curbs, gutters, sidewalks, irrigation structures, curb ramps, driveway approaches, corner fillets, drainage pans, median cover, and trails shall be CDOT Class D concrete per the 2017 CDOT Standard Specifications for Road and Bridge Construction (Red Book).

- Minimum field compressive strength: 4,500 psi at 28 days
- Air Content: 6% +/- 1.5%
- Maximum water cement ratio: 0.45
- Maximum slump at delivery shall be 4-inches. In the event that the concrete slump from the first truck of the day exceeds 5-inches the load will be rejected. Subsequent batches shall be adjusted so that the slump at delivery does not exceed 4-inches.

## **STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER LINES, SANITARY SEWERS, STORM DRAINS, UNDERDRAINS AND IRRIGATION SYSTEMS**

The City of Grand Junction *Standard Specifications for Construction of Water Lines, Sanitary Sewers, Storm Drains, Underdrains and Irrigation Systems* are hereby modified for this Project as follows:

### **SP-4 SECTION 102.11 – MANHOLES FOR SANITARY SEWER AND STORM DRAINS**

Section 102.11 of the Standard Specifications shall include the following:

Both existing and proposed manholes along 15<sup>th</sup> Street are to be lined using Castagra Ecodur 201 coating (or Engineer Approved Equal). Application requirements for Ecodur 201 may be found in Appendix C. Prior to manhole lining, proposed manholes shall receive pressure water or abrasive blast cleaning to remove any factory applied coating and achieve surface roughness of NACE 6/SSPC SP 13. The bottom portion of new proposed manholes with the inverts shall be coated prior to delivery to the construction site.

Surface preparation for existing manholes shall also meet NACE 6/SSPC SP 13 requirements, including ensuring no bug holes or voids exist in manhole wall surfaces prior to application of coating. If voids cannot be sufficiently removed by pressure water or abrasive blast cleaning, or if additional cleaning will affect the structural integrity of the concrete, fill voids prior to application using coating manufacturer's recommended process.

NACE 6/SSPC SP 13 requirements can be found in Appendix C.

All interior surfaces of manholes shall be coated on 15<sup>th</sup> Street only, including but not limited to pipe invert, manhole walls, and base. To ensure coating product and concrete waste is not introduced into sanitary sewer flows of existing manholes, plugs must be placed into pipeline prior to surface preparation or coating application.

**Method of Measurement:** Manhole coating, as described above for 15<sup>th</sup> Street, will be measured by the vertical lineal foot from manhole invert at centerline of the manhole to the top of the cast iron ring and cover.

**Method of Payment:** Vertical lineal foot

## **SP-5 SECTION 102.11 – MANHOLES FOR SANITARY SEWER AND STORM DRAINS**

Addition to Contract – Clarification:

Section 102.11 of the Standard Specifications shall include the following:

New straight through manholes as identified on the plan sheets are to have the pipe laid continuously through the manhole providing a PVC invert through the manhole with no joints located within the manhole. Pipe shall be installed at the proposed grade through the manholes, the invert below the PVC pipe and the manhole bench shall be field poured around the pipe. The top of the pipe shall be removed to spring line for manhole access to the pipe for future maintenance. The pipe shall be cut providing clean neat lines. Coating of the poured concrete bench shall be accomplished prior to removal of the top of pipe to spring line. The poured concrete bench shall have a minimum of 7-days cure time prior to protective coating being applied.

## **SP-6 SECTION 103 – REMOVALS, EXCAVATION, BACKFILLING AND RESTORATION**

Section 103 of the Standard Specifications is hereby revised for this project as follows:

Subsection 103.10, Cutoff Walls, shall include the following:

Payment for this work will not be measured or paid for separately and will be considered incidental to the installation of Water Lines and Gravity Sewer Pipe. Refer to Section 108.13 for list of Incidental Construction items.

Subsection 103.16, Earth Backfill Material, shall include the following:

Native material excavated on site shall be used for backfill on all pipelines and appurtenances above the bedding and haunching material unless the native material is too wet, soft, rocky or otherwise unsuitable for backfill as determined by the Engineer or their representative. In such case, imported trench backfill material, or other approved material, shall be used and paid for per ton of material supplied, placed and compacted. The Contractor will be required to salvage useable materials from the project excavations and mix the useable material with imported trench backfill prior to placing backfill in the trench. The contract price for "Imported Trench Backfill" shall include the disposal of the unsuitable material.

## **SP-7 CLEARING AND GRUBBING**

Addition to Contract - Clarification:

Clearing and grubbing for this project shall be considered incidental to the cost of construction. Clearing and grubbing will not be paid for separately.



## **SP-8 SECTION 103.3 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Addition to Contract:

Section 103.3 of the Standard Specifications shall include the following:

The contractor shall provide temporary security fencing at locations where fencing has been removed to facilitate construction. Temporary security fencing shall be in place whenever work activities are not ongoing near or through the fenced area and at the end of each working day. The temporary fencing shall be securely fastened to the existing fence with wire and/or zip-ties.

**Measurement and Payment:** Temporary security fencing shall not be measured or paid for separately but shall be incidental to the Reset Fence pay item.

## **SP-9 PROTECTION OF PROPERTY ADJACENT TO EASEMENTS**

Addition to Contract - Clarification:

The contractor shall be responsible for protecting surface or other features located adjacent to and outside any easement procured for this project. This includes pavement, gravel, fencing, structures, etc. located outside easements. Damage as a result of construction activity to objects as described above shall be repaired and/or replaced at the Contractors expense and shall not be the responsibility of the City.

## **SP-10 RECONFIGURATION OF MANHOLE BENCH**

Addition to Contract:

At existing sanitary sewer manhole C3-271-031 (Sta. 1+00, Doug Jones Sawmill Property), no excavation of this manhole is anticipated. All work to reconfigure the invert shall be completed in place. Bypass pumping and/or flow through plugs may be utilized to control flow while completing invert reconfiguration.

The existing manhole bench is to be cored/jackhammered to allow for the connection of the proposed 15-inch sanitary sewer to the northwest.

Surface preparation shall include removal of all latent material, and bush hammering of the existing concrete surfaces where non-shrink grout materials will be placed. A polymer adhesive shall be applied to all bush hammered surfaces immediately prior to placing non-shrink grout. All concrete and grout materials utilized in the reconfiguration of the invert shall be in accordance with Section 102.11 of the City of Grand Junction Standard Specifications for the Construction of Underground Utilities.

The complete reconfigured interior of the manhole shall be coated with Castagra Ecodur 201 in accordance with this project specification and paid for separately under pay item "Manhole Coatings".

**Method of Payment:** Lump Sum

### **SP-11 COORDINATION WITH DOUG JONES SAWMILL PROPERTY**

Addition to Contract:

Coordination with Doug Jones Sawmill property managers will be necessary to move and reset their lumber stock in the same location along the 15-inch sanitary sewer alignment to facilitate construction. Additional payment will not be made for moving this stock multiple times.

The Contractor is responsible for all coordination.

**Method of Payment:** Lump Sum

### **SP-12 SECTION 105 – PIPELINE TESTING**

Delete **Section 105.2**. The City of Grand Junction will not require the new sanitary sewer main to be pressure or leakage tested.

All sanitary sewer mains shall be deflection tested using a Mandrel and will be closed captioned (CCTV) inspected by the City of Grand Junction prior to final acceptance.

### **SP-13 SECTION 619 – 30" STEEL CASING BY BORE/JACK**

Addition to Contract:

Contract for waterline will recognize CDOT's Section 619, Subsection 619.03.a for the Bore/Jack operation crossing railroad spur tracks on 9<sup>th</sup> Street.

Section 619, Subsection 619.03.a of CDOT Specifications shall include the following:

The Contractor shall ensure that method of bore/jack prevents void formation between casing and native soil. Pre and post-construction survey elevations shall be taken by the Contractor of the railroad spur to confirm settlement does not occur.

Per the Union Pacific Railroad (UPRR) requirements, the 30" steel casing pipe shall have a minimum wall thickness of 0.469-inches nominal with a minimum yield strength of 35 ksi.

Casing pipe end seals manufactured by GPT Industries, Model C or W, or Engineer approved equal shall be installed at each end of the steel casing pipe.

The UPRR spur track at 9<sup>th</sup> Street and 4<sup>th</sup> Ave. is in use on Monday's and

Wednesday's each week. Boring and/or jacking operations for the steel casing pipe shall be temporarily suspended on these days while spur track is in use. Contractor to coordinate with UPRR for construction timing.

**SP-14 MANHOLE GRADE RINGS:**

Addition to Contract:

Section 102.11 of the Standard Specifications shall include the following:

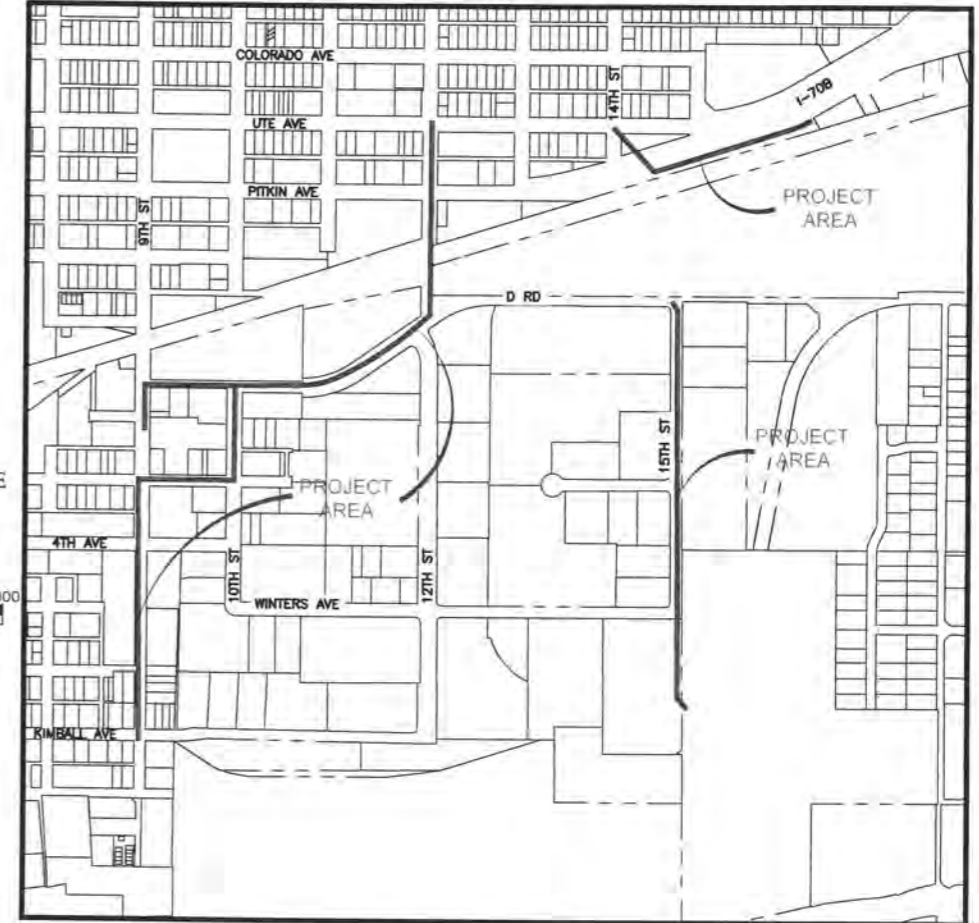
Concrete grade rings, shims and non-shrink grout shall not be used on the sewer manhole sections. Approved grade rings for this project shall be either HDPE Adjusting Rings by LadTech, Inc., or Expanded Polypropylene grade rings by Cretex Pro-Ring.

Grade rings shall be installed per the manufacturer's recommendations and directions. Caulk and sealants shall be approved by the manufacturer and shall be applied per the manufacturer's recommendation. The top grade ring shall match as close as possible the cross-slope of the existing roadway surface. Both manufacturers of grade rings provide grade rings that can accommodate the existing roadway cross-slope.

# CITY OF GRAND JUNCTION 2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT MARCH 2019

**Sheet List Table**

Sheet Number	Sheet Title
1	COVER SHEET
2	STANDARD ABBREVIATIONS, LEGEND, SYMBOLS
3	SUMMARY OF APPROXIMATE QUANTITIES
4	PROJECT CONTROL MAP
5	9TH STREET WATER LINE PLAN & PROFILE (0+00 TO 5+50)
6	9TH STREET WATER LINE PLAN & PROFILE (5+50 TO 10+00)
7	9TH STREET WATER LINE PLAN & PROFILE (10+00 TO 14+50)
8	3RD AVE WATER LINE PLAN & PROFILE (14+50 TO 19+00)
9	10TH STREET WATER LINE PLAN & PROFILE (19+00 TO 23+50)
10	D ROAD WATER LINE PLAN & PROFILE (23+50 TO 28+00)
11	B ROAD WATER LINE PLAN & PROFILE (28+00 TO 32+50)
12	D ROAD WATER LINE PLAN & PROFILE (32+50 TO 37+00)
13	12TH STREET WATER LINE PLAN & PROFILE (37+00 TO 41+50)
14	12TH STREET WATER LINE PLAN & PROFILE (41+50 TO 46+21.93)
15	PITKIN WATER LINE PLAN & PROFILE (1+00 TO 4+50)
16	PITKIN WATER LINE PLAN & PROFILE (4+50 TO 8+50)
17	PITKIN WATER LINE PLAN & PROFILE (8+50 TO 12+67.15)
18	9TH STREET SANITARY SEWER PLAN & PROFILE (1+00 TO 5+00)
19	D ROAD SANITARY SEWER PLAN & PROFILE (5+00 TO 9+50)
20	D ROAD SANITARY SEWER PLAN & PROFILE (9+50 TO 14+00)
21	D ROAD SANITARY SEWER PLAN & PROFILE (14+00 TO 17+54.95)
22	15TH STREET SANITARY SEWER PLAN & PROFILE (1+00 TO 5+50)
23	15TH STREET SANITARY SEWER PLAN & PROFILE (5+50 TO 10+00)
24	15TH STREET SANITARY SEWER PLAN & PROFILE (10+00 TO 14+50)
25	15TH STREET SANITARY SEWER PLAN & PROFILE (14+50 TO 19+00)
26	15TH STREET SANITARY SEWER PLAN & PROFILE (19+00 TO 22+51.03)
27	CATHODIC PROTECTION DETAILS



**UTILITIES AND AGENCIES**

AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
CITY OF GRAND JUNCTION	LEE COOPER	PROJECT ENGINEER	PROJECT ENGINEER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	---	(970) 256-4022
CITY OF GRAND JUNCTION	LEE COOPER	PROJECT ENGINEER	SANITARY SEWER	333 WEST AVE BLDG C	333 WEST AVE BLDG C	GRAND JCT., CO 81501	(970) 256-4155	(970) 256-4022
GRAND VALLEY IRRIGATION CO.	PHIL BERTRAND	MANAGER	IRRIGATION	688 26 RD	688 26 RD	GRAND JCT., CO 81506	(970) 242-2762	
SPECTRUM	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CENTURYLINK	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	JUSTIN BATES	SUPERVISOR	WATER	PO BOX 460	2190 H 1/4 RD	GRAND JCT., CO 81502	(970) 242-7491	(970) 242-9189
XCEL	TILLMON MCSHOOLER	UNIT MANAGER	ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2695	(970) 244-2664
XCEL	SARAH BARRICAU	UNIT MANAGER	GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656

**VICINITY MAP**



DRAWING STATUS:	
<input type="radio"/> PROGRESS	<input type="radio"/> FINAL CONSTRUCTION DRAWINGS
<input type="radio"/> ASBUILT	
DESIGNED BY:	
ERIK SNYDER	3/2019
REVIEWED BY:	
LEE COOPER	3/2019
AUTHORIZED FOR CONSTRUCTION	
ACCEPTED AS CONSTRUCTED	

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE
REVISION A	ADDENDUM #1	4/18/2019
REVISION B	ADDENDUM #3	5/10/2019
REVISION C		
REVISION D		

**JUB** ENGINEERS, INC.

OTHER J-U-B COMPANIES

THE LANGDON GROUP  
a J-U-B Company

GATEWAY MAPPING INC.  
a J-U-B Company



CITY OF GRAND JUNCTION 2019 SOUTH DOWNTOWN WATER, & SANITARY SEWER REPLACEMENT PROJECT

**ABBREVIATIONS**

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
CL	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DJ	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
E	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER

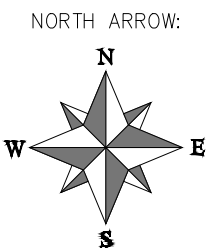
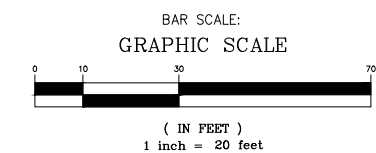
**LEGEND**

BSWMP DRAINAGE BASIN BOUNDARY	
BSWMP ANCHORED STRAW BALES	
BSWMP SILT FENCE	
BUILDING	
CONCRETE CURB AND GUTTER	
CONCRETE CURB, GUTTER, & SIDEWALK	
CONCRETE DITCH	
CONCRETE SIDEWALK	
CULVERT	
EARTH DITCH	
EDGE OF GRAVEL	
EDGE OF PAVEMENT	
FENCE (BARBED WIRE)	
FENCE (CHAIN LINK)	
FENCE (IRON)	
FENCE (PLASTIC)	
FENCE (WOOD)	
FENCE (TEMPORARY CONSTRUCTION)	
FENCE (WOVEN WIRE)	
GUARD RAIL	
HATCHING: INDICATES ASPHALT REMOVAL	
HATCHING: INDICATES CONCRETE REMOVAL	
HATCHING: INDICATES STAGING AREA	
LINE (CENTER OF IMPROVEMENTS)	
LINE (CITY LIMITS)	
LINE (CONTROL)	
LINE (EASEMENT)	
LINE (MONUMENT/SECTION)	
LINE (PROPERTY)	
LINE (RIGHT OF WAY)	
MATCH LINE MATCH LINE SEE SHEET NO ?	
PIPE (IRRIGATION)	
PIPE (SIPHON)	

PROPOSED CONCRETE CURB AND GUTTER	
PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
PROPOSED CONCRETE SIDEWALK	
PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
RAIL ROAD	
RETAINING WALL	
STRIPING (CONTINUOUS WHITE)	
STRIPING (DASHED WHITE)	
STRIPING (CONTINUOUS YELLOW)	
STRIPING (DASHED YELLOW)	
TOP OF SLOPE	
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
TOE OF SLOPE	
TRAFFIC DETECTOR LOOP	
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
UTILITY LINE (CABLE TV)	
UTILITY LINE (ELECTRIC)	
UTILITY LINE (FIBER OPTIC)	
UTILITY LINE (GAS)	
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
UTILITY LINE (OVERHEAD POWER)	
UTILITY LINE (OVERHEAD TELEPHONE)	
UTILITY LINE (SANITARY SEWER)	
UTILITY LINE (SANITARY SEWER FORCE MAIN)	
UTILITY LINE (SANITARY SEWER SERVICE)	
UTILITY LINE (STORM SEWER)	
UTILITY LINE (STORM SEWER, PERFORATED)	
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
UTILITY LINE (TELEPHONE)	
UTILITY LINE (WATER)	

**SYMBOLS**

BENCH MARK	
BORE HOLE	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1			TAG	3/2019
2			ES	3/2019
3			BG	3/2019
4			BG	3/2019



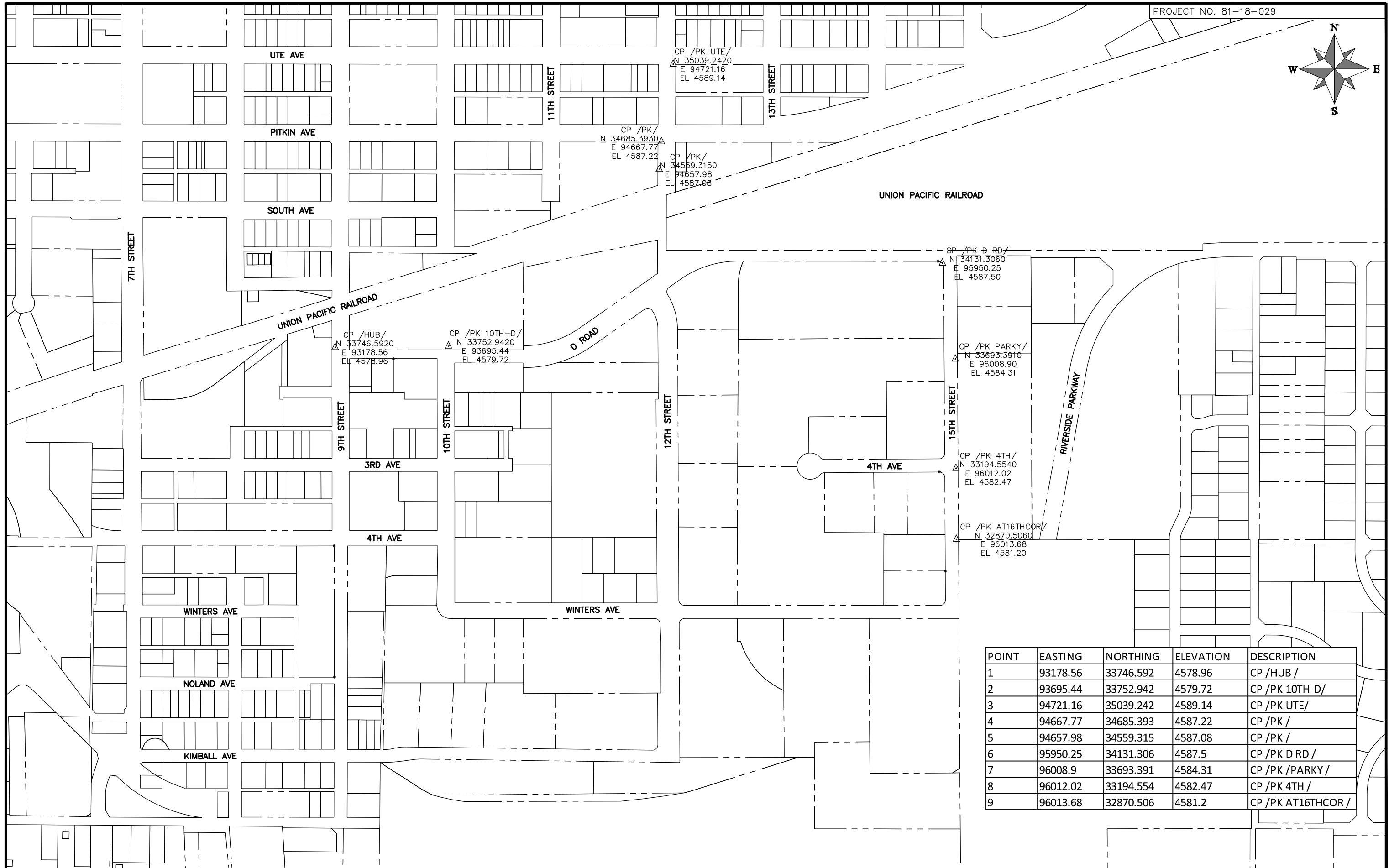
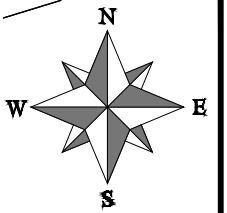
1	108.2	4" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer service line)	570	Lin. Ft.
2	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	167	Lin. Ft.
3	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	1329	Lin. Ft.
4	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	326	Lin. Ft.
5	108.2	15" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole)	2141	Lin. Ft.
6	108.2	Water Main (4") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	5	Lin. Ft.
7	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	145	Lin. Ft.
8	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	140	Lin. Ft.
9	108.2	Water Main (12") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	66	Lin. Ft.
10	108.2	Water Main (18") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	0	Lin. Ft.
11	108.2	Water Main (20") (C-900 PVC, DR-18) (Includes cost of restrained connection to existing pipe)	2597	Lin. Ft.
12	108.2	Storm Drain Pipe (18") (ADS Corrugated HDPE Pipe)	49	Lin. Ft.
13	108.2	Imported Trench Backfill (Class 3) (Includes haul and disposal of unsuitable excavated material) (Assumed material unit weight = 133 lbs/ft <sup>3</sup> )	11008	Ton
14	108.3	8" X 4" Sewer Service Tap (Full Body Wye w/ Street 45 deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	7	Each
15	108.3	8" X 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	1	Each
16	108.3	10" X 4" Sewer Service Tap (Full Body Wye w/ Street 45 deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	4	Each
17	108.3	10" X 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	1	Each
18	108.3	15" X 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	5	Each
19	108.3	15" X 6" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (Includes full body wye, cleanout, and all fittings required to align and connect into the existing sewer service pipe at the locations shown on the plans) (See City Std. Detail SS-06)	3	Each
20	108.3	Sewer Service Clean-out Ring and Cover (Castings Inc. CO-8030-CI or Approved Equal) (Includes concrete collar in unpaved areas per City Std. Detail SS-07)	20	Each
21	108.3	Gate Valve (4")	1	Each
22	108.3	Gate Valve (6")	9	Each
23	108.3	Gate Valve (8")	3	Each
24	108.3	Gate Valve (12")	2	Each
25	108.3	Butterfly Valve (18")	0	Each
26	108.3	Butterfly Valve (20")	4	Each
27	108.3	Tee (6" x 6") MI Swivel Tee (Epoxy Coated)	1	Each
28	108.3	Tee (8" x 4") MI Swivel Tee (Epoxy Coated)	1	Each
29	108.3	Tee (8" x 6") MI Swivel Tee (Epoxy Coated)	3	Each
30	108.3	Tee (12" x 6") MI Swivel Tee (Epoxy Coated)	0	Each
31	108.3	Tee (12" x 12") (Epoxy Coated)	1	Each
32	108.3	Tee (18" x 18") (Epoxy Coated)	0	Each
33	108.3	Tee (20" x 6") MI Swivel Tee (Epoxy Coated)	5	Each

34	108.3	Tee (20" x 8") MI Swivel Tee (Epoxy Coated)	3	Each
35	108.3	Tee (20" x 18") (Epoxy Coated)	0	Each
36	108.3	Tee (20" x 20") (Epoxy Coated)	1	Each
37	108.3	Elbow (6" x 45 deg) (Epoxy Coated)	1	Each
38	108.3	Elbow (8" x 45 deg) (Epoxy Coated)	0	Each
39	108.3	Elbow (8" x 22.5 deg) (Epoxy Coated)	0	Each
40	108.3	Elbow (8" x 11.25 deg) (Epoxy Coated)	0	Each
41	108.3	Elbow (12" x 45 deg) (Epoxy Coated)	0	Each
42	108.3	Elbow (18" x 45 deg) (Epoxy Coated)	0	Each
43	108.3	Elbow (18" x 22.5 deg) (Epoxy Coated)	0	Each
44	108.3	Elbow (20" x 45 deg) (Epoxy Coated)	8	Each
45	108.3	Elbow (20" x 11.25 deg) (Epoxy Coated)	0	Each
46	108.3	Reducer (20" x 12") (Epoxy Coated)	1	Each
47	108.3	Cross Fitting (12" x 8") (Epoxy Coated)	0	Each
48	108.3	End Cap/Plug (20") (Includes Concrete Thrustblock per City Std Detail W-07 & W-08)	1	Each
49	108.3	Fire Hydrant Assembly	7	Each
50	108.3	8" Welded Flange or Hy-Max Solid Sleeve Restrained Coupling with Stiffener for connection to HDPE pipe (8" HDPE Pipe)	1	Each
51	108.3	20" Welded Flange or Hy-Max Solid Sleeve Restrained Coupling with Stiffener for connection to HDPE pipe (20" HDPE Pipe)	0	Each
52	108.4	Water Service Line (3/4") (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	284	Lin. Ft.
53	108.4	Water Service Line (1") (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	80	Lin. Ft.
54	108.4	Water Service Line (1-1/2") (Type K Copper or HDPE 3408) (If lead service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	0	Lin. Ft.
55	108.4	Water Service Line (2") (Type K Copper or HDPE 3408) (If lead service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	20	Lin. Ft.
56	108.4	Tapping Saddle (20" x 3/4")	11	Each
57	108.4	Tapping Saddle (20" x 1")	3	Each
58	108.4	Tapping Saddle (20" x 1-1/2")	0	Each
59	108.4	Tapping Saddle (20" x 2")	1	Each
60	102.8j/108.4	Corporation Stop (3/4")	11	Each
61	102.8j/108.4	Corporation Stop (1")	3	Each
62	102.8j/108.4	Corporation Stop (1-1/2")	0	Each
63	102.8j/108.4	Corporation Stop (2")	1	Each
64	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade) (See City Std. Detail SS-02) (No steps required in sewer manholes)	13	Each
65	108.5	Manhole Barrel Section (D>5") (48" I.D.)	51	Lin. Ft.
66	108.5	Connect to Existing Manhole (15" pipe) (Doug Jones Sawmill Property manhole)	1	Each
67	108.5	Storm Sewer Basic Manhole (48" I.D.) (Includes connection to adjacent storm sewer lines and adjusting to final grade) (See City Std. Detail D-03).	1	Each
68	108.5	Manhole Coatings (Castagra Ecodur 201 or Engineer Approved Equal)	72	VLF
69	108.7	Granular Stabilization Material (Type B) (Crushed Rock) (18" Thick Min.) (Includes haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 138 lbs/ft <sup>3</sup> )	2890	Ton
70	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	35	Each
71	202	Abandon Existing Water Valve (Close valve, remove top half of existing valve box, fill cavity to finish subgrade with flow-fill material)	7	Each
72	202	Abandon Manhole (Remove cone section, ring & cover, and fill remaining barrel sections with flow-fill material)	5	Each
73	202	Remove Existing Fire Hydrant (Return Hydrant to City Shops)	7	Each
74	202	Removal of Existing Pipe (Size & type as shown on plans)	3375	Lin. Ft.
75	202	Removal of Asphalt Mat (Full-Depth)	3656	Sq. Yd.
76	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	4128	Sq. Yd.

77	202	Removal of Concrete (Includes but not limited to curb, gutter, sidewalk, driveway, slabs, V pan, curb ramps, intersection corners, aprons, landscape borders, and concrete walls.)	1097	Sq. Ft.
78	202	Removal of Sod	0	Sq. Ft.
79	202	Removal of Manhole (Price to include plugging existing abandoned pipes, if any, and removal and disposal of concrete sections)	9	Each
80	202	Remove Bollard	0	Each
81	202	Removal of Tree (2" dia.)	1	Each
82	203	Disposal of Radioactive Material (Dispose at City Shops, 333 West Ave.)	75	Cu. Yd.
83	206	Structure Backfill (Flow Fill) (Use at CDOT Right of Way road crossing and as required on the Project)	16	Cu. Yd.
84	208	Storm Drain Inlet Protection (Gravel Filter at Curb Inlet) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	19	Each
85	208	Concrete Washout Facility	1	Lump Sum
86	210	Reset Landscape Ground Cover (Match in Kind) (Contractors shall remove ground cover and underlying weed barrier as needed and stockpile materials. Contractor shall reset these materials and provide additional materials as needed)	364	Sq. Ft.
87	210	Reset Sprinkler System (Complete in place)	1	Lump Sum
88	210	Reset Fence (4' High Barbed Wire Fence)	0	Lin. Ft.
89	210	Reset Fence (5' High Chain-Link)	30	Lin. Ft.
90	210	Reset Fence (6' High Chain-Link w/ Barbed Wire Top)	120	Lin. Ft.
91	210	Reset Sign	0	Each
92	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil Placed Prior to Sod Placement)	0	Sq. Ft.
93	304	Aggregate Base Course (Class 6) (4" thick) (Shoulder Base)	160	Sq. Yd.
94	304	Aggregate Base Course (Class 6) (15" thick)	3688	Sq. Yd.
95	401	Hot Bituminous Pavement (2" Thick) (Grading SX, PG 64-22) (GYR=75) (Mill & Fill Overlay) (3rd Ave. & 10th Street)	2057	Sq. Yd.
96	401	Hot Bituminous Pavement (3" Thick) (Grading SX, PG 64-22) (GYR=75) (One 3" Lift Bottom Mat)	2564	Sq. Yd.
97	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR=75) (One 2" Top Mat) (T-Top)	2071	Sq. Yd.
98	401	Hot Bituminous Pavement (Patching) (5" Thick) (Grading SX, PG 64-22) (GYR=75) (3" Bottom Mat, 2" Top Mat) (9th Street & 15th Street)	1092	Sq. Yd.
99	407	Emulsified Asphalt (Tack Coat)	900	Gallon
100	420	Geotextile (Separator) (Non-Woven) (Wrap stabilization material with fabric) (Minimum Overlap = 24") (As Needed)	1900	Sq. Yd.
101	608	Concrete Drainage Pan (3' Wide) (Match in Kind)	3	Sq. Yd.
102	608	Concrete Drainage Pan (4' Wide) (Match in Kind)	10	Sq. Yd.
103	608	Concrete Curb and Gutter (2' Wide) (Match in Kind)	179	Lin. Ft.
104	608	Concrete Valley Gutter (2' Wide) (Match in Kind)	48	Lin. Ft.
105	608	Concrete Curb (6" Wide, 12" High) (Match in Kind)	19	Lin. Ft.
106	608	Concrete Sidewalk (4" Thick) (Match in Kind)	31	Sq. Yd.
107	608	Concrete Pavement (6" Thick) (CDOT Class D, 4500 PSI Mix)	27	Sq. Yd.
108	608	Cap Top Half of Sewer Pipe in concrete per City Std. Detail GU-04 (20' long) (If necessary)	2	Each
109	608	Encase Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	1	Each
110	620	Portable Sanitary Facility	1	Each
111	625	Construction Surveying (Includes As-Built Drawings)	1	Lump Sum
112	626	Mobilization	1	Lump Sum
113	630	Traffic Control Plan	1	Lump Sum
114	630	Traffic Control (Complete in Place)	1	Lump Sum
115	630	Flagging	1400	Hour
116	SP	UV Cured CIPP Rehabilitation	0	Lin. Ft.
116A	SP	30' Steel Casing by Bore/Jack	30	Lin. Ft.
117	SP	Cathodic Protection System	1	Lump Sum
118	SP	Reconfigure Manhole Bench (C3-271-031)	1	Lump Sum
119	SP	Coordination with Doug Jones Property (Temporarily relocate lumber for sewer installation and then place back lumber in same location)	1	Lump Sum
120	SC3.3.18	Quality Control Testing	1	Lump Sum
121	Pump	Bypass Sewage Pumping (At Contractors Discretion)	1	Lump Sum
MCR		Minor Contract Revisions	1	Lump Sum

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE	3/2019
REVISION	ADDENDUM#1	4/18/2019	DESIGNED BY	ES	DATE	3/2019
REVISION			CHECKED BY	BG	DATE	3/2019
REVISION			APPROVED BY	BG	DATE	3/2019

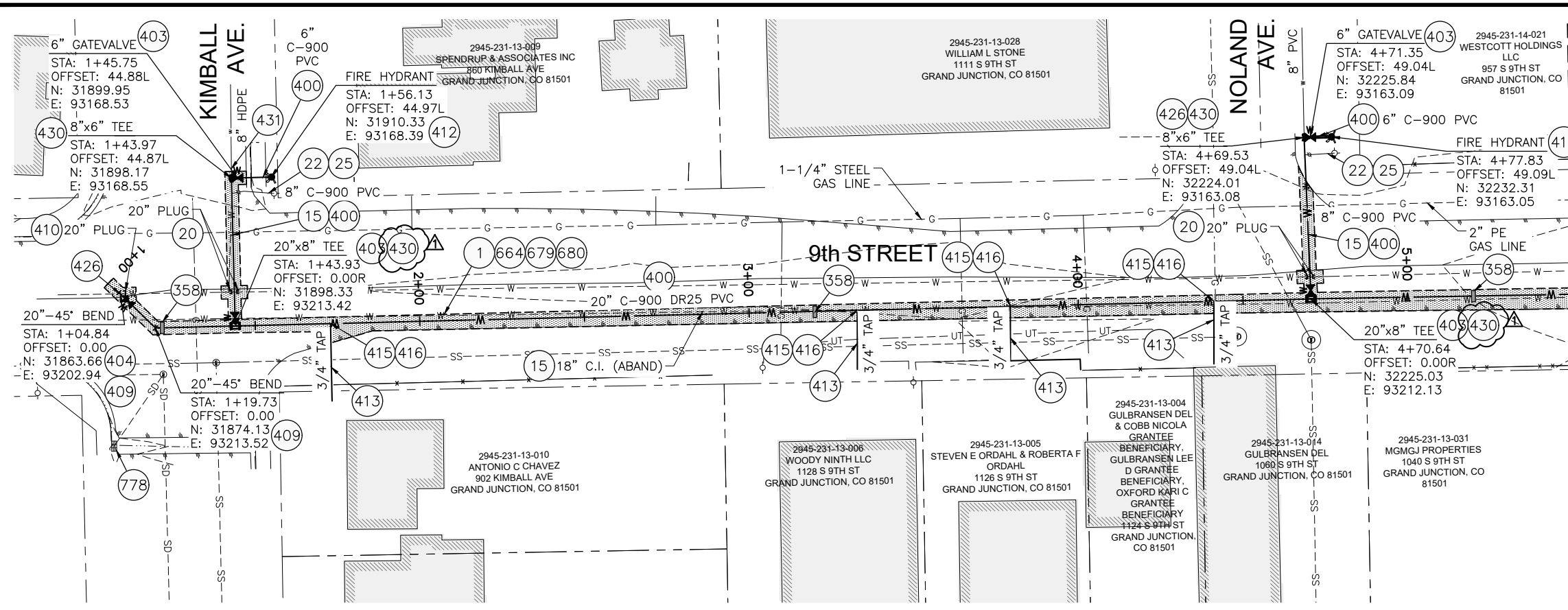
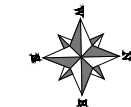




POINT	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	93178.56	33746.592	4578.96	CP /HUB /
2	93695.44	33752.942	4579.72	CP /PK 10TH-D/
3	94721.16	35039.242	4589.14	CP /PK UTE/
4	94667.77	34685.393	4587.22	CP /PK /
5	94657.98	34559.315	4587.08	CP /PK /
6	95950.25	34131.306	4587.5	CP /PK D RD /
7	96008.9	33693.391	4584.31	CP /PK /PARKY /
8	96012.02	33194.554	4582.47	CP /PK 4TH /
9	96013.68	32870.506	4581.2	CP /PK AT16THCOR /

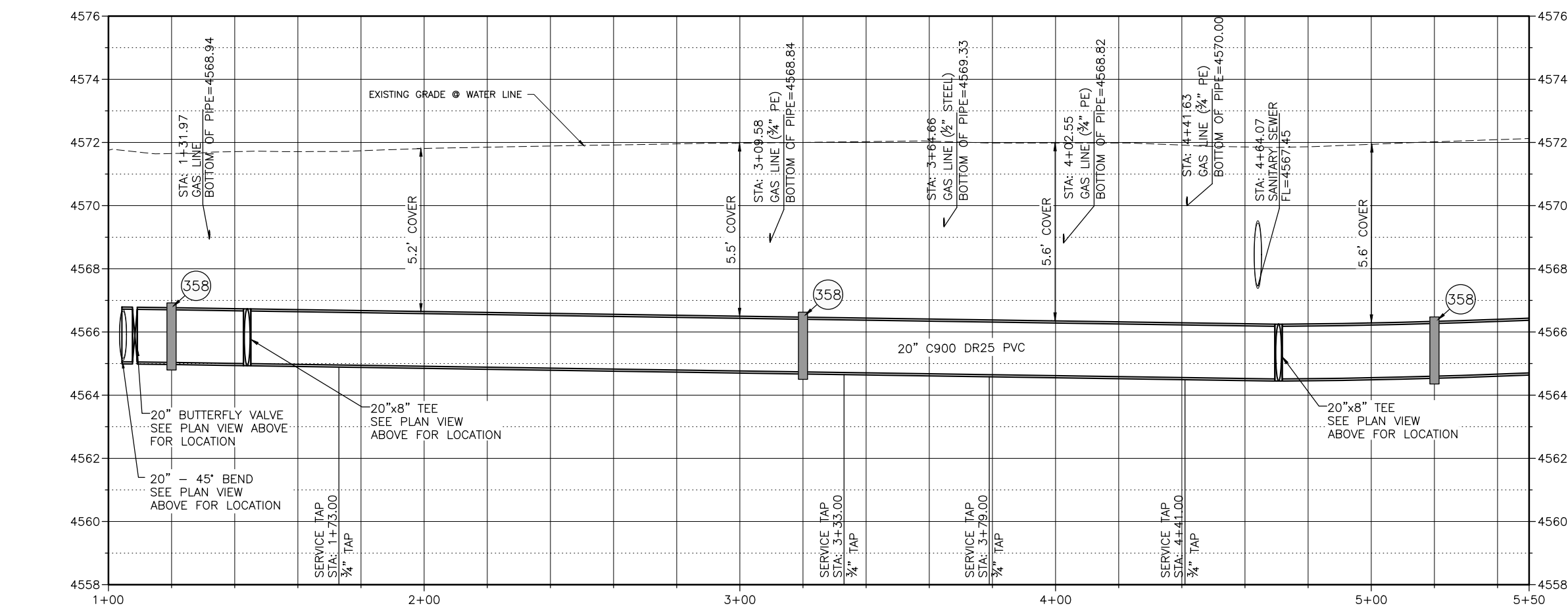
REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE	3/2019	SCALES:
REVISION			DESIGNED BY	ES	DATE	3/2019	PLAN
REVISION			CHECKED BY	BG	DATE	3/2019	HORIZONTAL: 1" = 200'
REVISION			APPROVED BY	BG	DATE	3/2019	0 50'100' 200' 400'





MATCH LINE

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW-FILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 404 102.8e/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 410 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN) (INCLUDES THRUST BLOCK)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 RESTRAINED CONNECTION TO EXISTING WATER PIPE/VALVE/FITTING. THE UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 431 102.8/108.3 - WELDED FLANGE OR HY-MAX SOLID SLEEVE RESTRAINED COUPLING WITH STIFFENER FOR CONNECTION TO HDPE
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)



NOTES:

- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7a AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
- 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE
- WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS

CONTRACTOR TO REFERENCE EBAA IRON RESTRAINT LENGTH CALCULATOR FOR DETERMINING PIPE RESTRAINT LENGTH

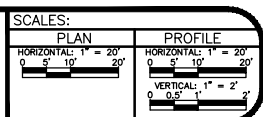


**Know what's below.  
Call before you dig.**

**CALL 2 BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR  
EXCAVATE FOR THE MARKING OF  
UNDERGROUND MEMBER UTILITIES**

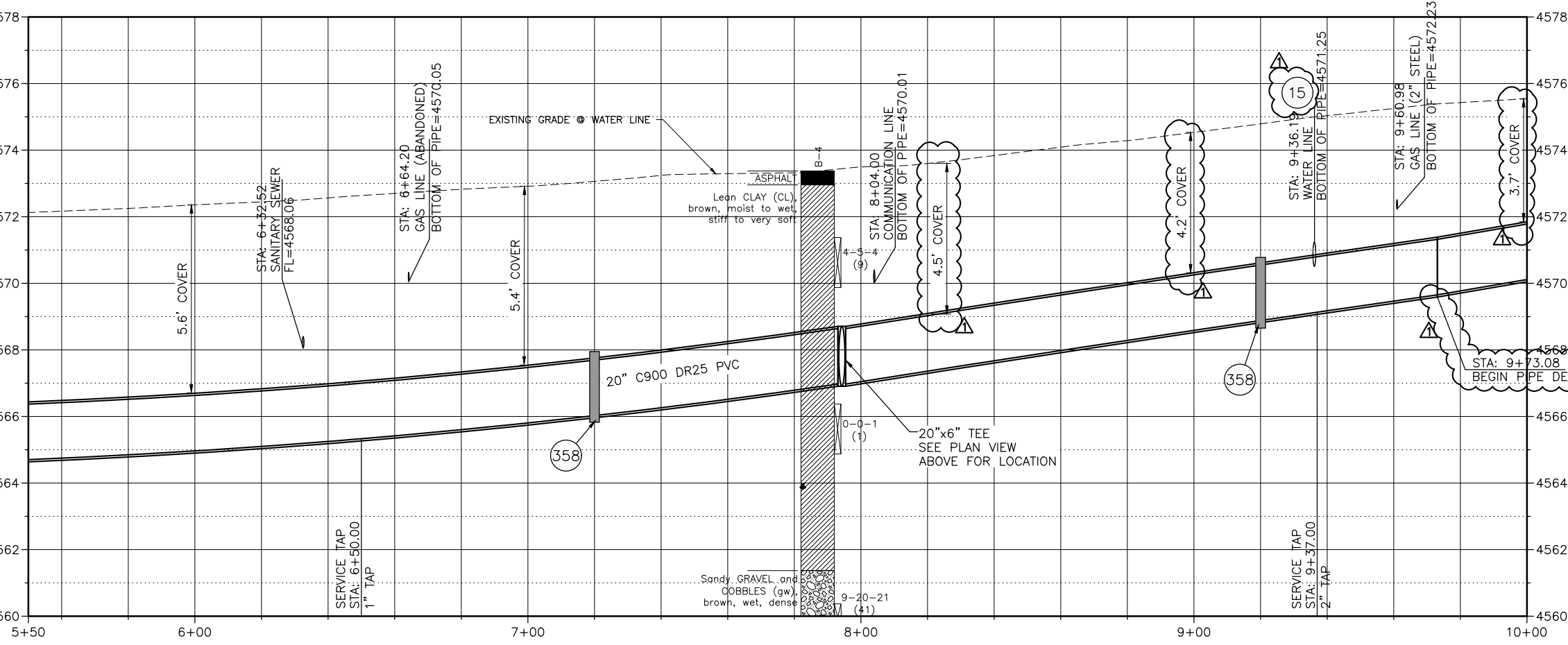
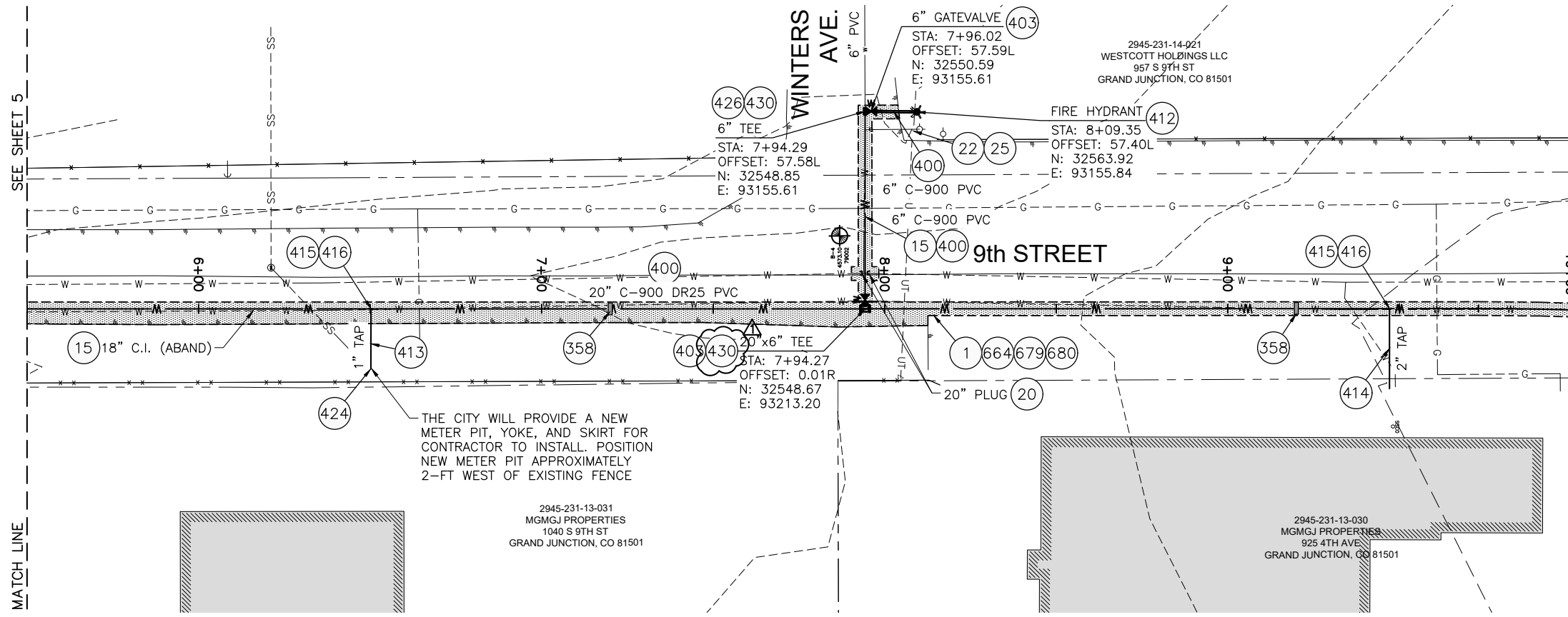
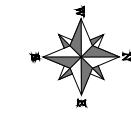
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A	ADDENDUM #1	4/18/2019	TAG	3/2019
REVISION B			ES	3/2019
REVISION C			BG	3/2019
REVISION D			BG	3/2019



**2019 SOUTH DOWNTOWN WATER  
& SANITARY SEWER REPLACEMENT PROJECT  
PLAN & PROFILE - 9th STREET WATER LINE**





- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FILL-MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 414 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER OR HDPE 3408 PIPE) (SIZE AS SHOWN ON PLAN) IF LEAD OF POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 424 102.8/108.4 - METER PIT (PROVIDED BY CITY)
- 426 RESTRAINED CONNECTION TO EXISTING WATER PIPE/VALVE/FITTING. THE UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)

NOTES:

- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7a AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
- 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE
- WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS CONTRACTOR TO REFERENCE EBAA IRON RESTRAINT LENGTH CALCULATOR FOR DETERMINING PIPE RESTRAINT LENGTH



**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

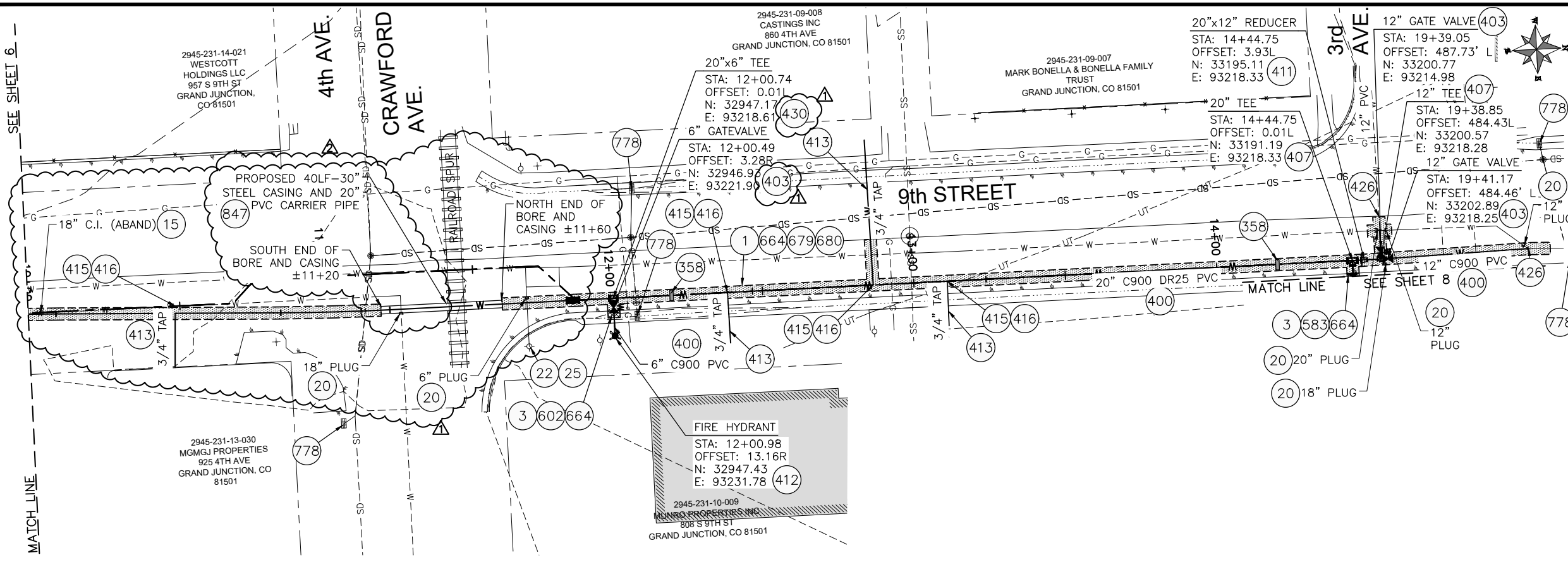
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REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
REVISION	ADDENDUM #1	4/18/2019	DESIGNED BY	ES	DATE 3/2019
REVISION			CHECKED BY	BG	DATE 3/2019
REVISION			APPROVED BY	BG	DATE 3/2019

SCALES:	
PLAN	1" = 20'
PROFILE	1" = 2'



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 9th STREET WATER LINE**



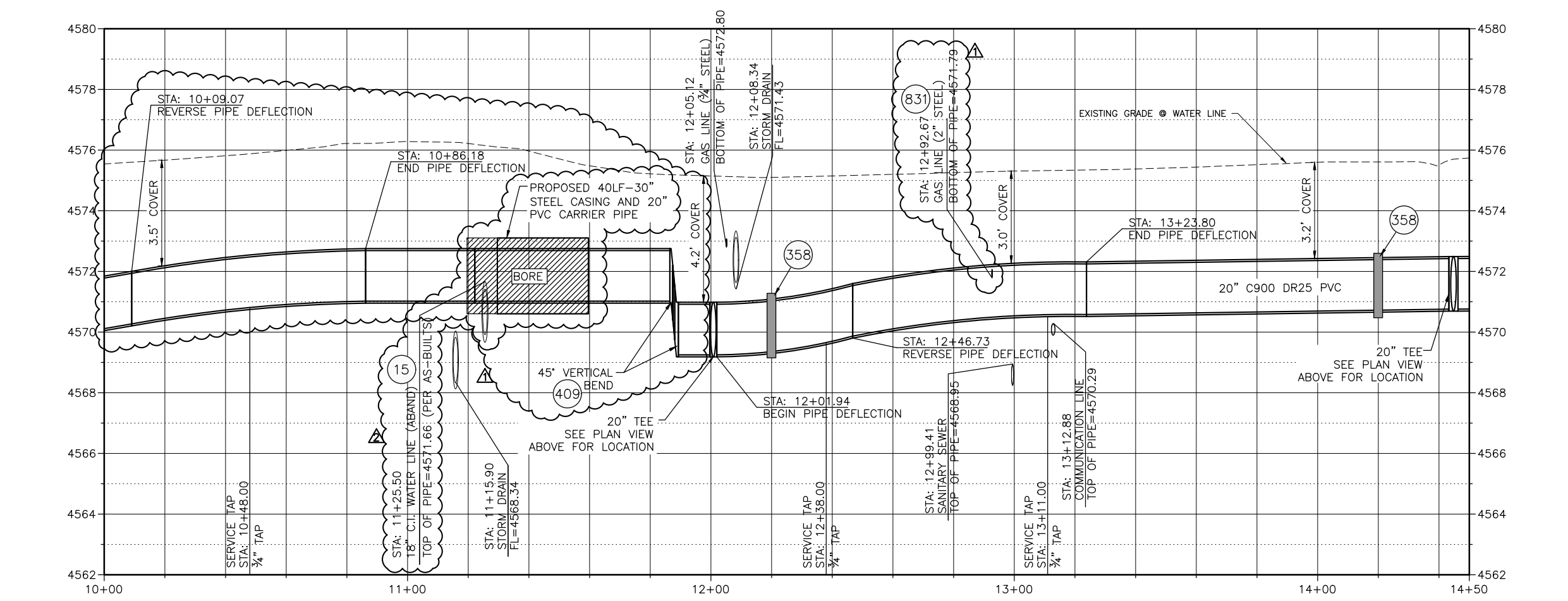
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW-FILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 404 102.8e/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 RESTRAINED CONNECTION TO EXISTING WATER PIPE/VALVE/FITTING. THE UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 583 608.06 - CONCRETE DRAINAGE PAN (4' WIDE) (MATCH IN KIND)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)
- 831 COORDINATE WITH XCEL ENERGY FOR RELOCATION OF GAS LINE
- 847 THE CONTRACTOR SHALL BORE OR JACK THE WATERLINE UNDER THE RAILROAD SPUR. THE ASPHALT SHALL NOT BE CUT OR PLANED WITHIN 15' OF THE SPUR

NOTES:

- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7a AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
- CIPP SHALL BE INSTALLED WITHIN ENTIRE LENGTH OF EXISTING STEEL CASING. CIPP STATION LIMITS SHOWN ARE ESTIMATES BASED ON AS-BUILT INFORMATION
- WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS
  - 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE

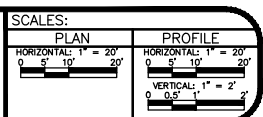


**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

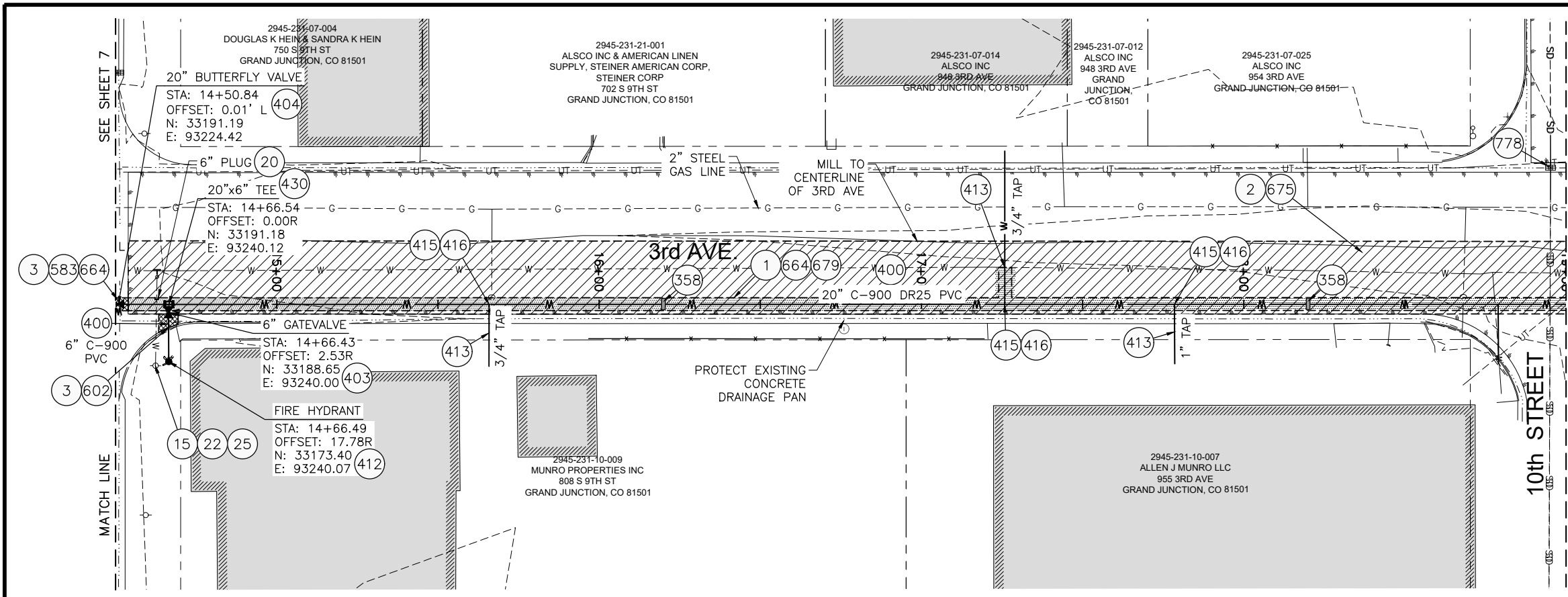
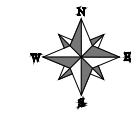


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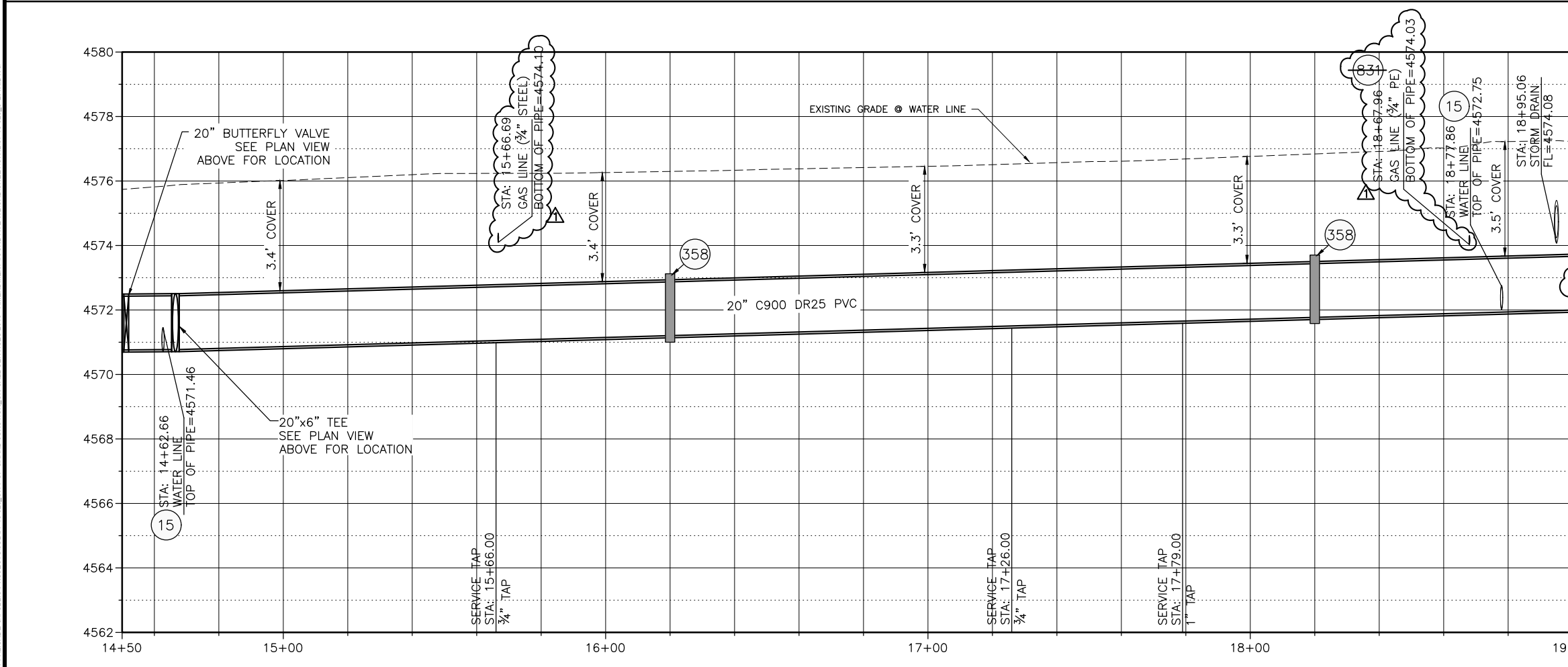
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2	ADDENDUM #3	5/10/2019	BG		3/2019
3			BG		3/2019
4			BG		3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 9th STREET WATER LINE**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 2 202.09 - REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW-FILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE (SIZE AS SHOWN)
- 404 102.8e/108.3 - BUTTERFLY VALVE (SIZE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 583 608.06 - CONCRETE DRAINAGE PAN (4' WIDE) (MATCH IN KIND)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 675 401.08 - HOT BITUMINOUS PAVEMENT (2" THICK) (GRADING SX, BINDER GRADE PG 64-22) (MILL & FILL OVERLAY)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)
- 831 COORDINATE WITH XCEL ENERGY FOR RELOCATION OF GAS LINE
- 832 RESET TELEPHONE LINE (BY OTHERS)



- 831 COORDINATE WITH XCEL ENERGY FOR RELOCATION OF GAS LINE
  - 832 RESET TELEPHONE LINE (BY OTHERS)
- NOTES:
- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7a AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
  - 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE
  - WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS
  - CONTRACTOR TO REFERENCE EBAA IRON RESTRAINT LENGTH CALCULATOR FOR DETERMINING PIPE RESTRAINT LENGTH



**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

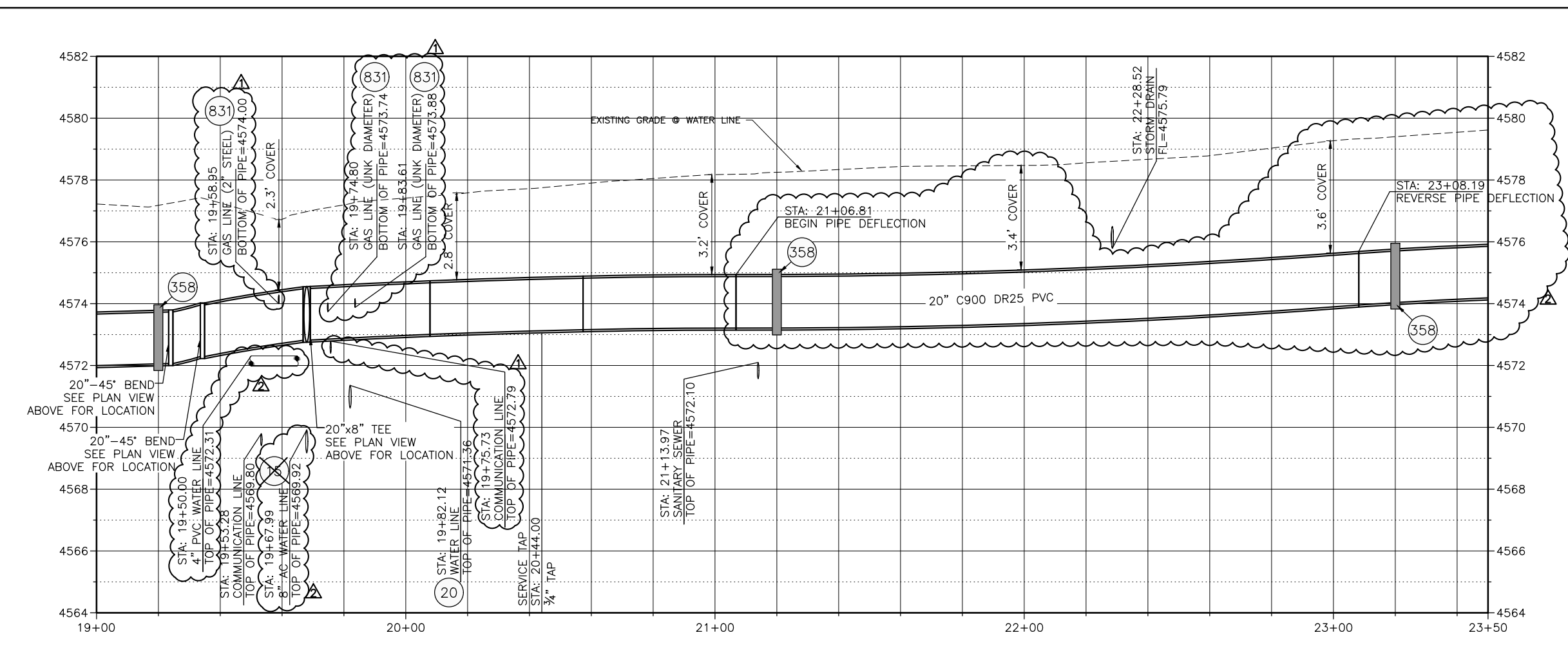
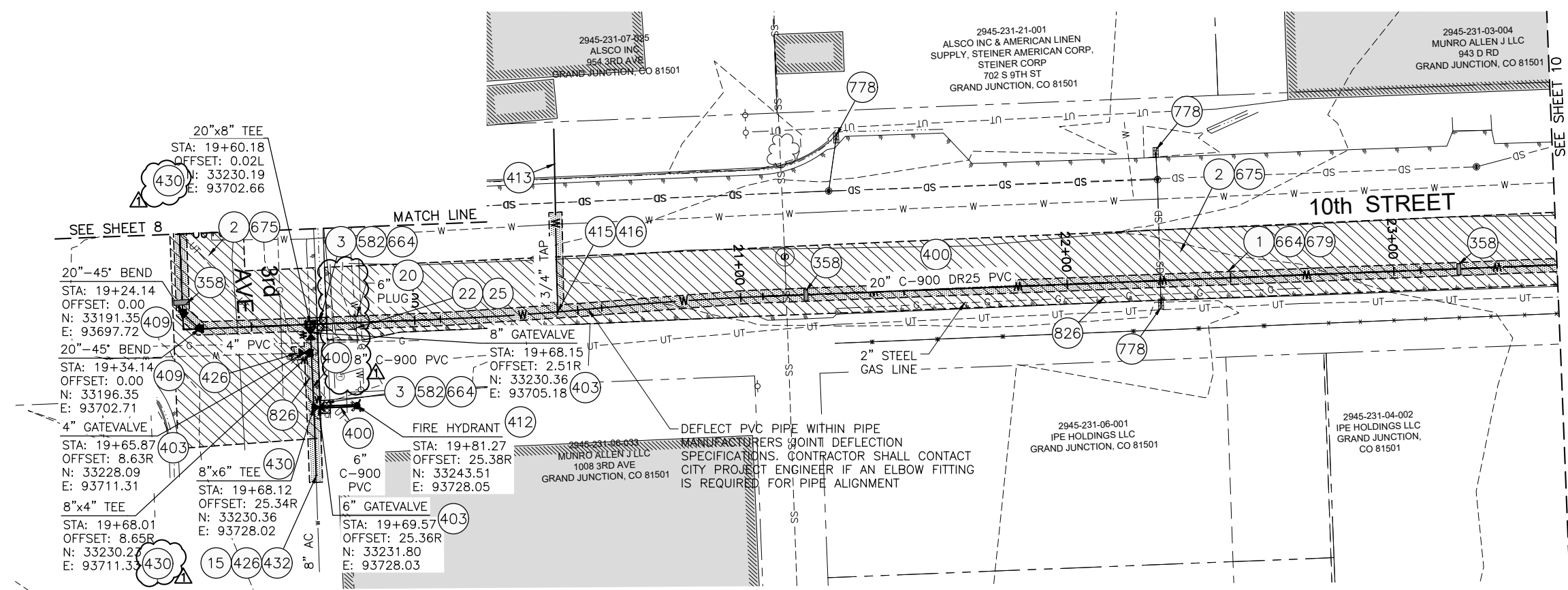
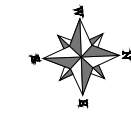
Per Date: 4/16/2019 5:34 PM Plotted By: Erik Snyder  
 Date Created: 4/16/2019 1:31 PM PALISADE-GIPUBLIC/PROJECT/SUB/81-18-029-CITY OF GRAND JUNCTION, ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W/CDASH/EE/CIVIL/81-18-029-C-201X.DWG

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
1	ADDENDUM #1	4/18/2019	TAG	3/2019
2			ES	3/2019
3			BG	3/2019
4			BG	3/2019

SCALE:	PLAN	PROFILE
HORIZONTAL	1" = 20'	1" = 20'
VERTICAL	1" = 2'	1" = 2'



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 3rd AVE WATER LINE**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 2 202.09 - REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 21 202 - REMOVE EXISTING WATER VALVE.
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW-FILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 RESTRAINED CONNECTION TO EXISTING WATER PIPE/VALVE/FITTING. THE UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 432 102.8/108.3 - CONNECT TO EXISTING AC PIPE USING FULL 20'-FT STICK OF PVC PIPE
- 582 608.06 - CONCRETE DRAINAGE PAN (3' WIDE) (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 675 401.08 - HOT BITUMINOUS PAVEMENT (2" THICK) (GRADING SX, BINDER GRADE PG 64-22) (MILL & FILL OVERLAY)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE
- 831 COORDINATE WITH XCEL ENERGY FOR RELOCATION OF GAS LINE

NOTES:

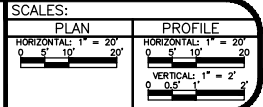
- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7c AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
- 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE
- WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS
- CONTRACTOR TO REFERENCE EBAA IRON RESTRAINT LENGTH CALCULATOR FOR DETERMINING PIPE RESTRAINT LENGTH



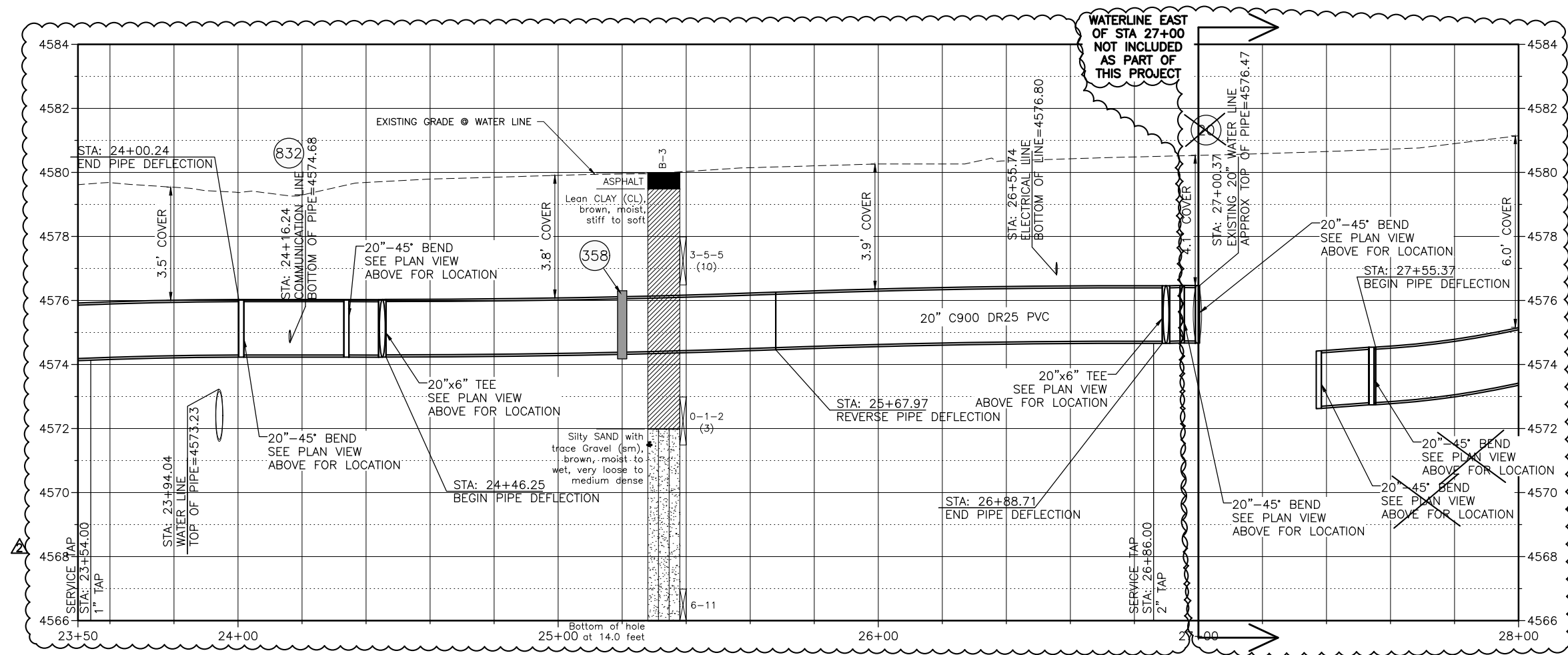
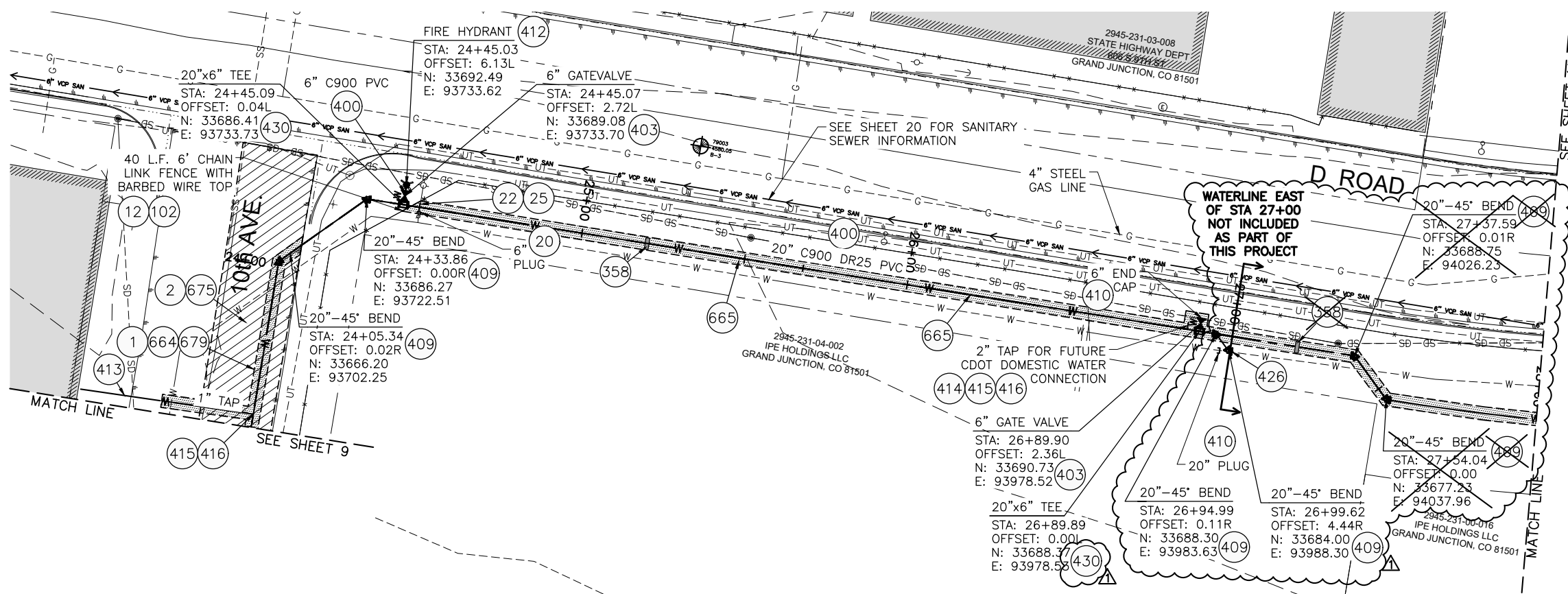
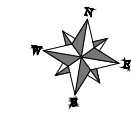
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 5/7/2019 10:38 AM Plotted By: Erik Snyder  
 Date Created: 5/7/2019 10:38 AM Project: 81-18-029 - AMENDMENT #3 3RD AVE W/CDASH/HEETCIVIL/81-18-029-C-201X.DWG

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
1	ADDENDUM #1	4/18/2019	ES		3/2019
2	ADDENDUM #3	5/10/2019	BG		3/2019
3			BG		3/2019
4			BG		3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 10th STREET WATER LINE**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 2 202.09 - REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 12 202 - REMOVAL OF FENCE AS SHOWN. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 21 202 - REMOVE EXISTING WATER VALVE
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW-FILL MATERIAL.
- 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO WATERLINE INSTALLATION PAY ITEM)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 410 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN) (INCLUDES THRUST BLOCK)
- 412 102.8a/108.3 - FIRE HYDRANT ASSEMBLY
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN) IF LEAD OR POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 414 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER OR HDPE 3408 PIPE) (SIZE AS SHOWN ON PLAN) IF LEAD OF POLY SERVICE LINE IS ENCOUNTERED, WATER SERVICE SHALL BE REPLACED TO METER.
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 RESTRAINED CONNECTION TO EXISTING WATER PIPE/VALVE/FITTING. THE UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 430 102.8/108.3 - MJ x SWIVEL TEE (SIZE AS SHOWN)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 665 304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK) (WIDTH OF TRENCH SURFACE TREATMENT)
- 675 401.08 - HOT BITUMINOUS PAVEMENT (2" THICK) (GRADING SX, BINDER GRADE PG 64-22) (MILL & FILL OVERLAY)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 832 RESET TELEPHONE LINE (BY OTHERS).

- NOTES:
- ALL WATERLINE FITTINGS SHALL BE EPOXY COATED PER CITY STANDARD SPECIFICATION 102.7c AND WRAPPED WITH 8 MIL POLYETHYLENE AND TO INCLUDE THRUST BLOCK PER CITY STD DETAILS W-07 & W-08
  - 36" BURY DEPTH UNLESS OTHERWISE NOTED IN THE PROFILE
  - WATERLINE SERVICES INSTALLED OUTSIDE TRENCH LIMITS AND UNDER PAVEMENT TO BE INSTALLED BY TRENCHLESS METHODS



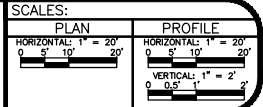
**Know what's below.  
Call before you dig.**

**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

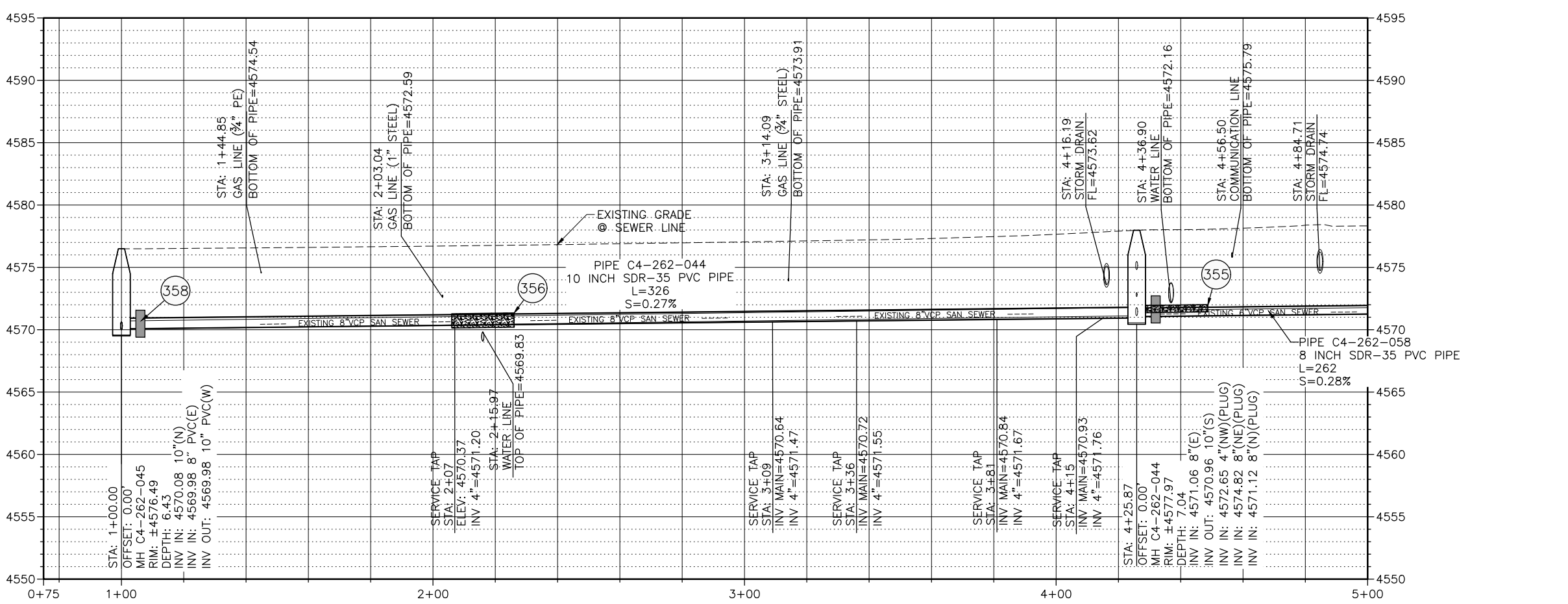
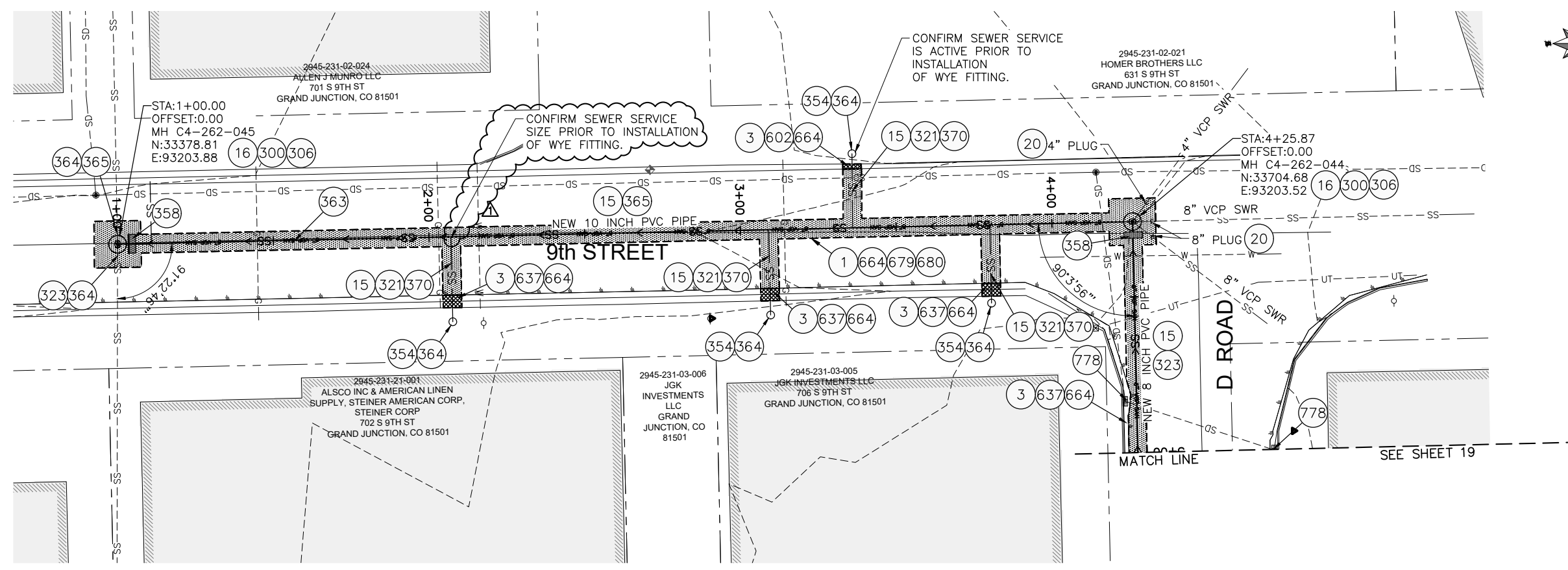
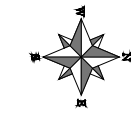
CONTRACTOR TO REFERENCE EBAA IRON RESTRAINT LENGTH CALCULATOR FOR DETERMINING PIPE RESTRAINT LENGTH

Per Date: 5/7/2019 10:38 AM Plotted By: Erik Snyder  
 Date Created: 5/7/2019 10:38 AM Project: 81-18-029 - AMENDMENT #3 3RD AVE W/CDASH/HECT/VIL/81-18-029 - C-201X.DWG

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
REVISION #1	ADDENDUM #1	4/18/2019	DESIGNED BY	ES	DATE 3/2019
REVISION #2	ADDENDUM #2	5/10/2019	CHECKED BY	BG	DATE 3/2019
REVISION #3	ADDENDUM #3		APPROVED BY	BG	DATE 3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - D ROAD WATER LINE**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 356 104.40 - ENCASE ENTIRE SEWER IN REINFORCED CONCRETE PER STD. DETAIL GU-04. (ALL CASES WHERE WATER LINE BELOW SEWER LINE OR AT WATERWAY CROSSING)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY AND CONTRACTOR)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING SEWER PIPES.
- 365 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 370 102.9/108.3 - 10"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 637 608.06 - CONCRETE VALLEY GUTTER (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)

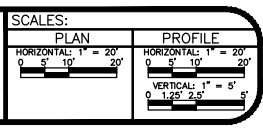


NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.

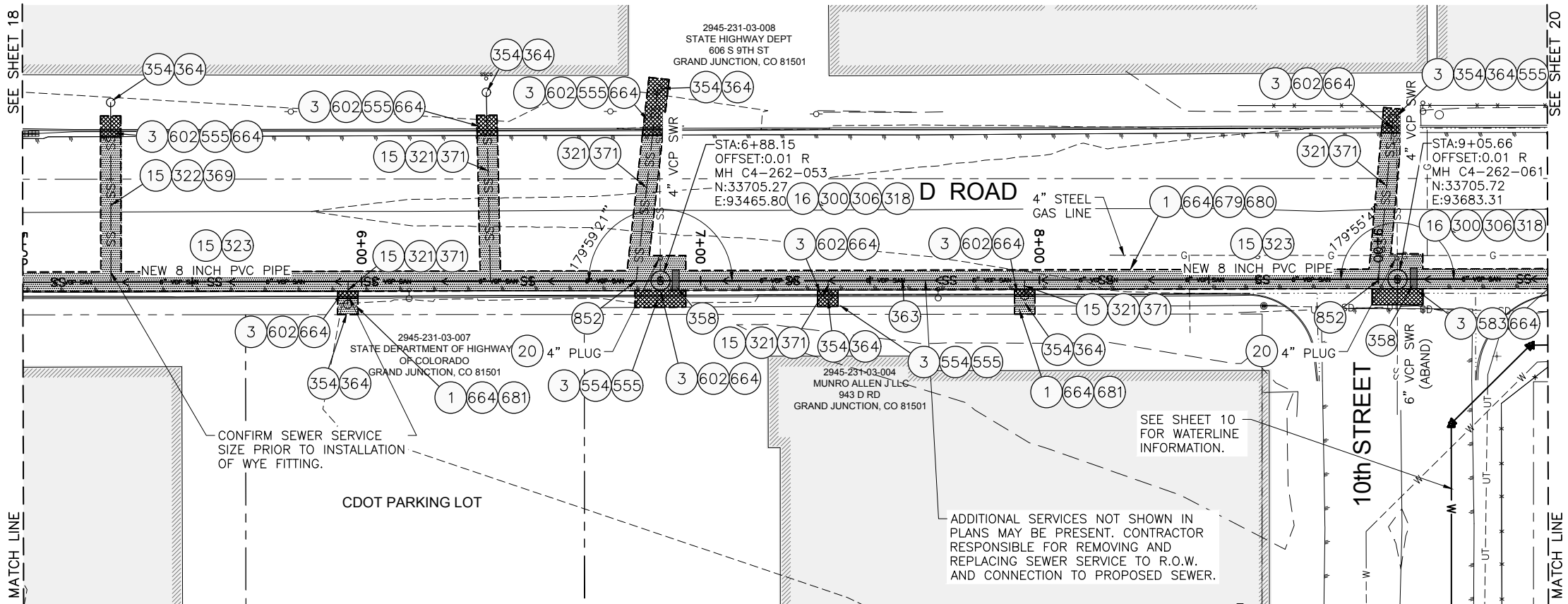
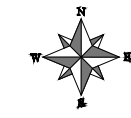
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 4/18/2019 5:35 PM Plotted By: Erik Snyder Date Created: 4/18/2019 1:11:18 PM PROJECT: SUIB81-18-029, CITY OF GRAND JUNCTION, ON CALL SERVICES 2019, AMENDMENT #3 3RD AVE W/CADSHHECT/IVL18-029, C-201X-9THSS.DWG

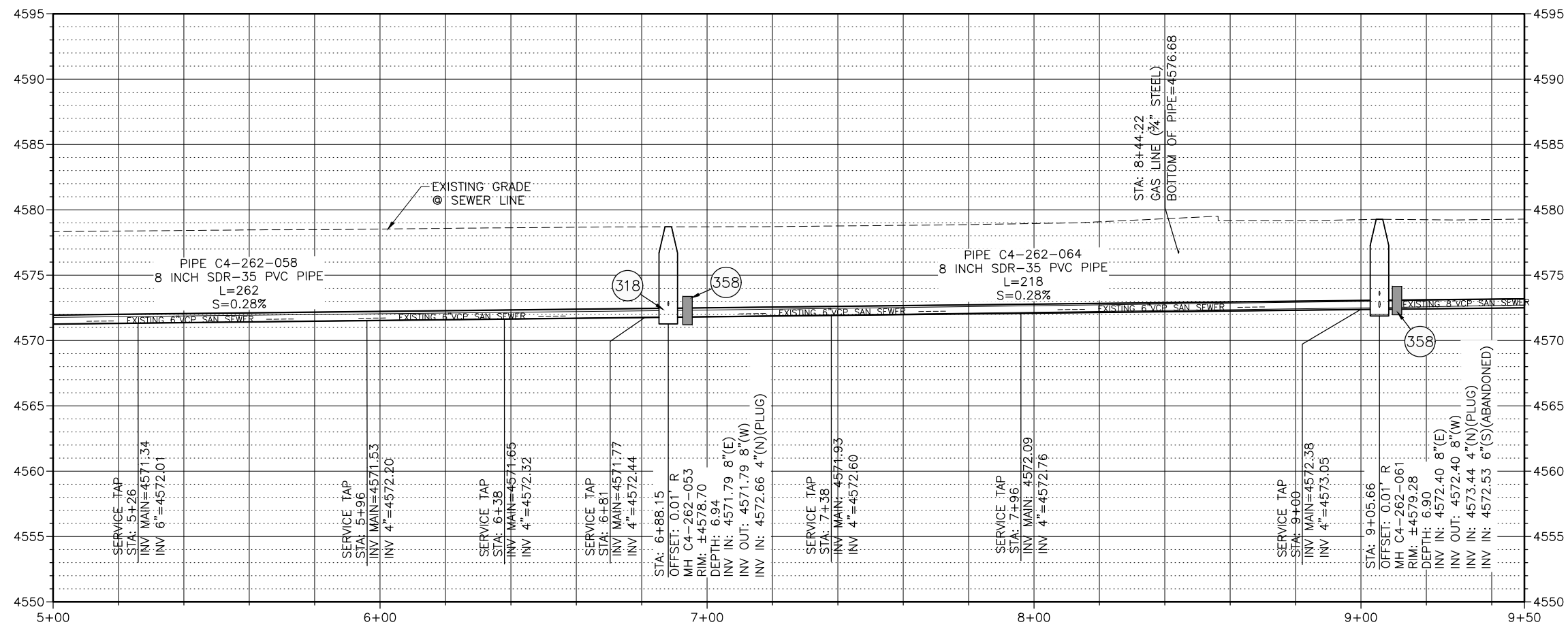
REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
1	ADDENDUM #1	4/18/2019	ES		3/2019
2			BG		3/2019
3			BG		3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 9TH ST SANITARY SEWER**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 318 PROVIDE PVC INVERT. (PIPE SHALL BE LAID CONTINUOUSLY THROUGH MANHOLE). COST IS INCIDENTAL TO COST OF MANHOLE INSTALLATION.
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL.
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING SEWER PIPES.
- 369 102.9/108.3 - 8"x6" SEWER SERVICE TAP. FULL BODY WYE
- 371 102.9/108.3 - 8"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 554 608.06 - CONCRETE CURB (6" WIDE, 12" HIGH) (MATCH IN KIND)
- 555 608.06 - CONCRETE SIDEWALK (4" THICK) (MATCH IN KIND)
- 583 608.06 - CONCRETE DRAINAGE PAN (4" WIDE)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (SEE CITY STD. DETAIL GU-03)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)
- 852 RELOCATE EXISTING SERVICE FROM CONNECTION TO MANHOLE, TO DOWNSTREAM OF MANHOLE.



- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING SEWER PIPES.
- 369 102.9/108.3 - 8"x6" SEWER SERVICE TAP. FULL BODY WYE
- 371 102.9/108.3 - 8"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 554 608.06 - CONCRETE CURB (6" WIDE, 12" HIGH) (MATCH IN KIND)
- 555 608.06 - CONCRETE SIDEWALK (4" THICK) (MATCH IN KIND)
- 583 608.06 - CONCRETE DRAINAGE PAN (4" WIDE)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (SEE CITY STD. DETAIL GU-03)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)
- 852 RELOCATE EXISTING SERVICE FROM CONNECTION TO MANHOLE, TO DOWNSTREAM OF MANHOLE.



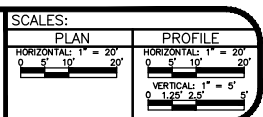
Know what's below.  
Call before you dig.

NOTES:  
• DO NOT INSTALL STEPS IN NEW MANHOLES.

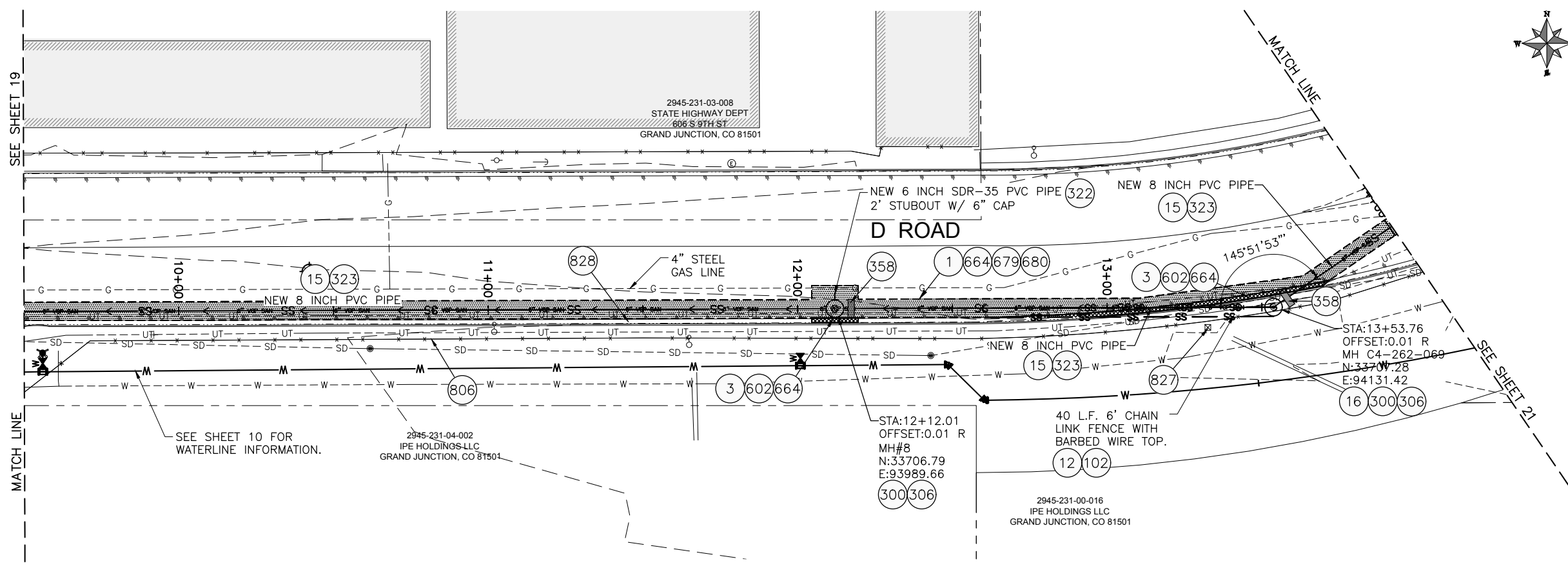
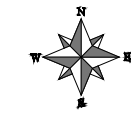
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 3/29/2019 2:00 PM Plotted By: Erik Snyder Date Created: 3/29/2019 1:31 PM PALISADE: C:\PUBLIC\PROJECTS\JUB81-18-029\_CITY OF GRAND JUNCTION\_ON CALL SERVICES 2019 - AMENDMENT #3 3RD AVE W\CAD\SHHEET\CIVIL\81-18-029\_C-201X-9THSS.DWG

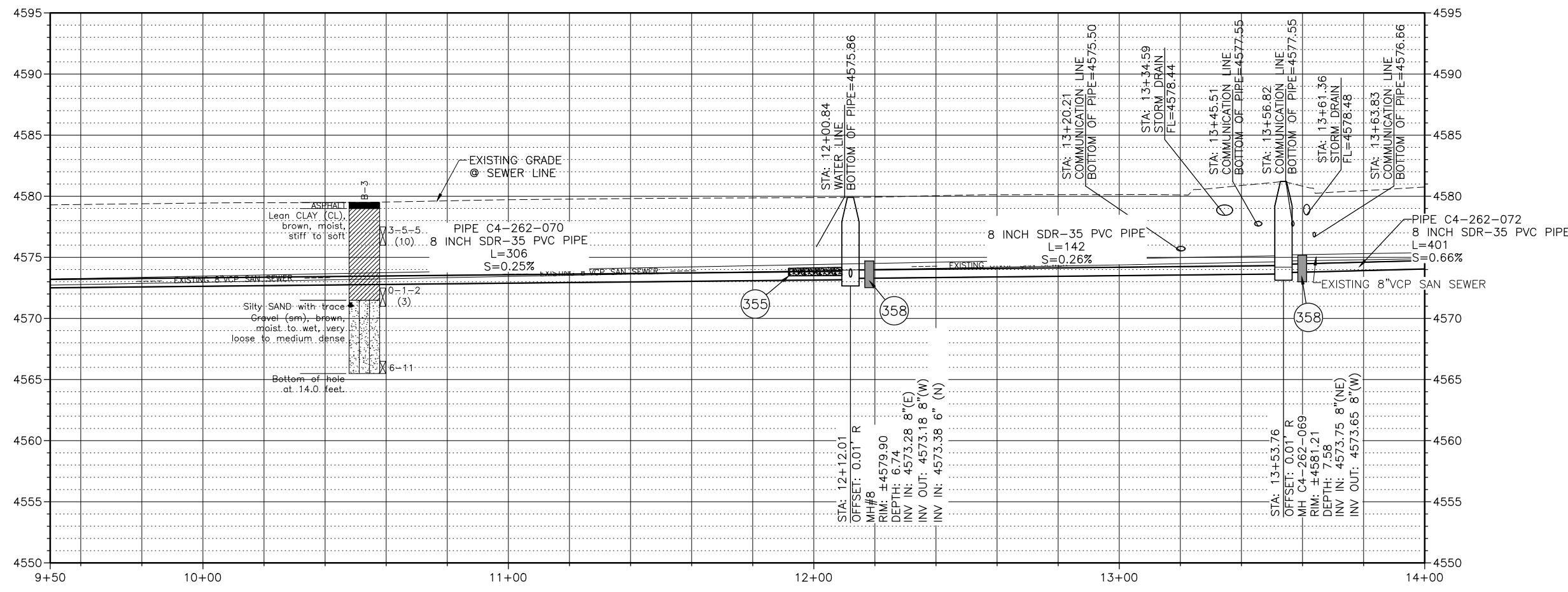
REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
REVISION			DESIGNED BY	ES	DATE 3/2019
REVISION			CHECKED BY	BG	DATE 3/2019
REVISION			APPROVED BY	BG	DATE 3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - D ROAD SANITARY SEWER**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 12 202 - REMOVAL OF FENCE AS SHOWN. (HEIGHT AND MATERIAL AS SHOWN ON PLAN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOWN ON PLAN)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL.
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 637 608.06 - CONCRETE VALLEY GUTTER (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 806 PROTECT FENCE
- 827 PROTECT EXISTING ELECTRIC BOX
- 828 PROTECT EXISTING CURB AND GUTTER.



NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.



Know what's below.  
 Call before you dig.

**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 3/20/2019 2:01 PM Plotted By: Erik Snyder  
 Date Created: 2/20/2019 10:11 AM PALISADE-CIPUBLIC/PROJECTS/81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W/ CAD SHEET CIVIL 81-18-029-C-2019-01THSS.DWG

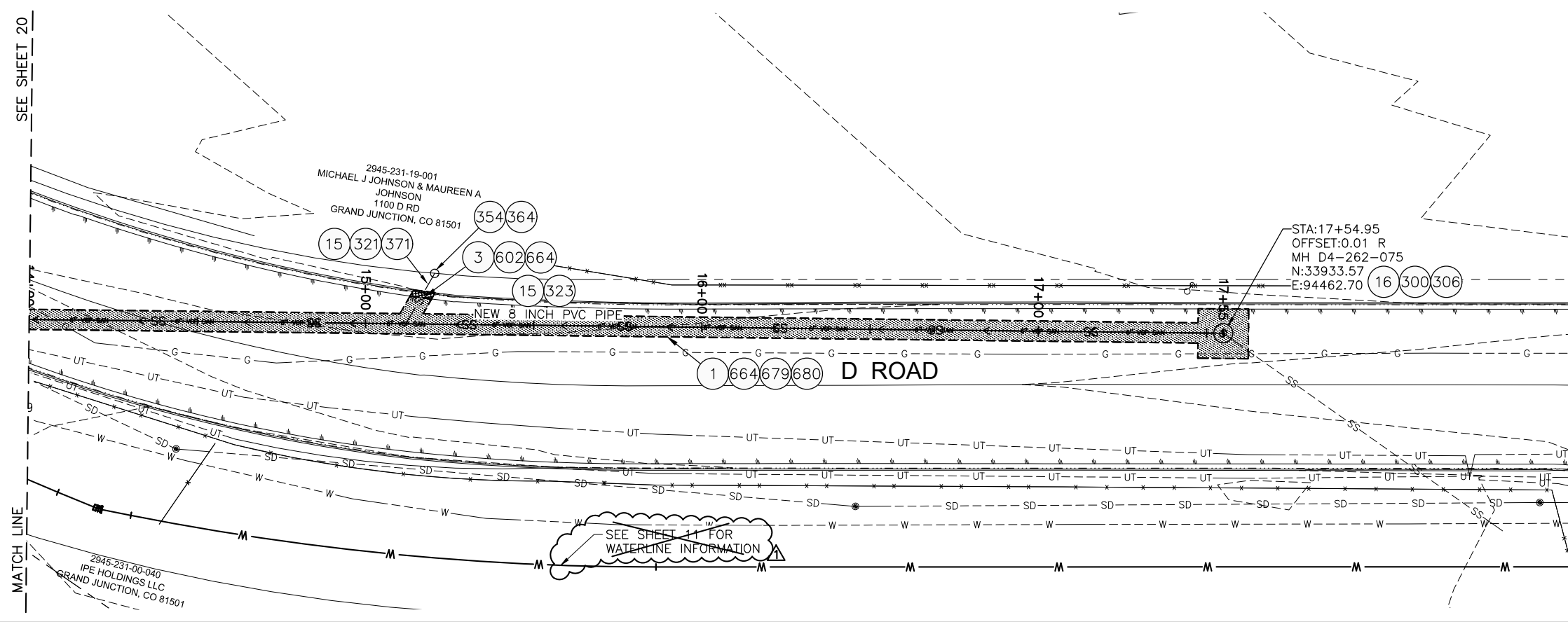
REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
1			ES		3/2019
2			BG		3/2019
3			BG		3/2019

SCALES:	PLAN	PROFILE
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	0 5' 10' 20'	0 5' 10' 20'
		VERTICAL 1" = 5'
		0 10' 20' 5'

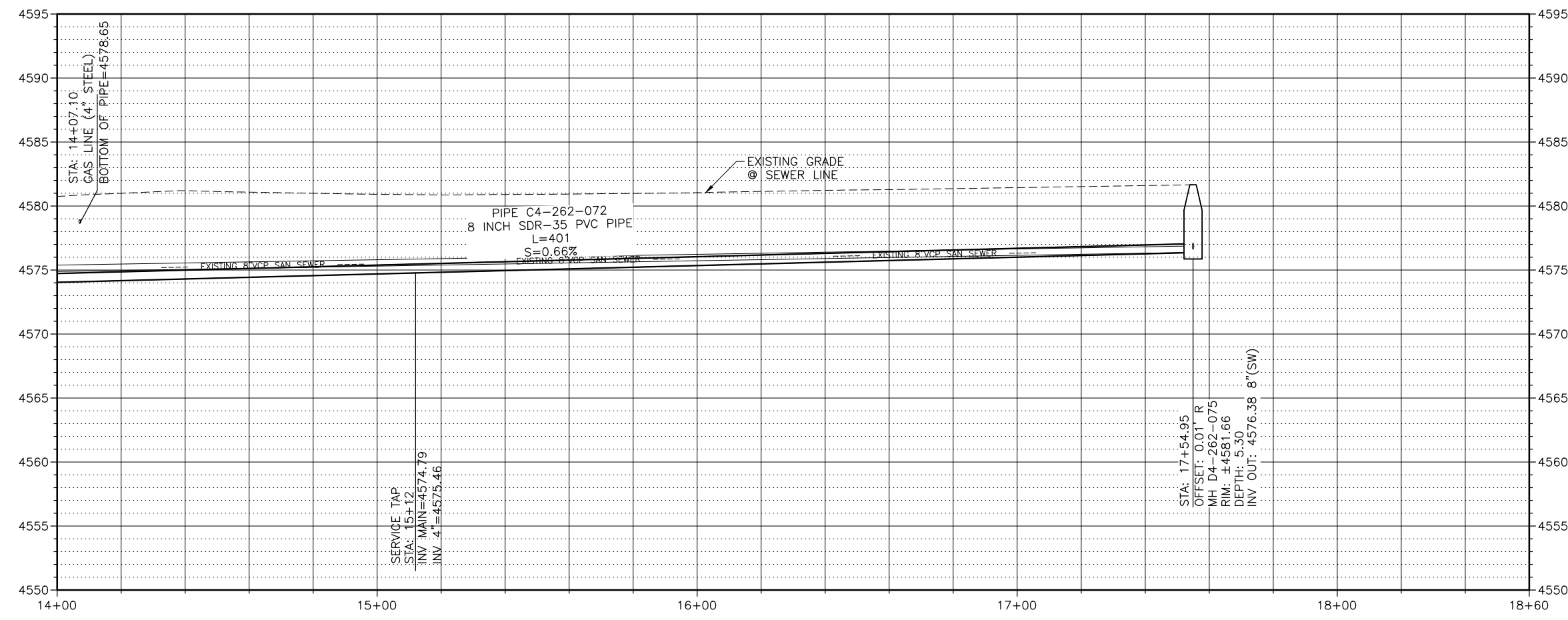


**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
 PLAN & PROFILE - D ROAD SANITARY SEWER





- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL.
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING SEWER PIPES.
- 371 102.9/108.3 - 8"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 602 608.06 - CONCRETE CURB AND GUTTER (STANDARD) (2' WIDE)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)



NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.



**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

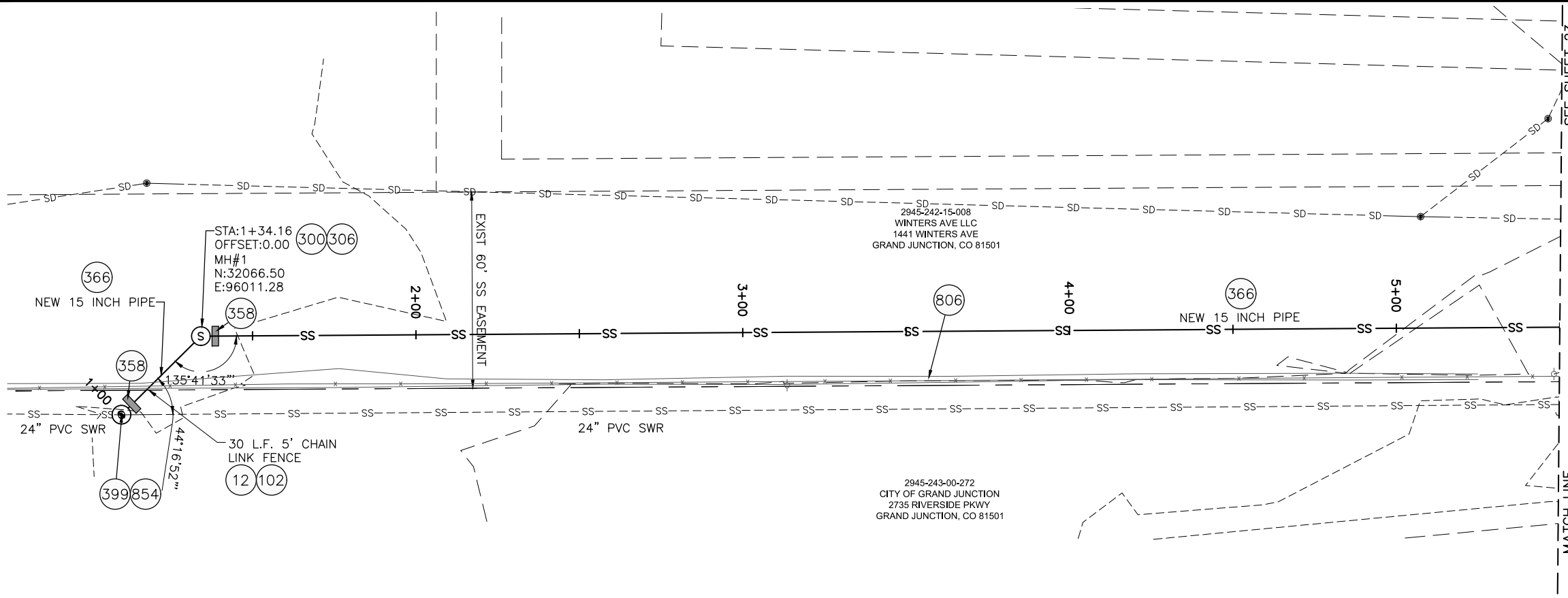
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REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
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2			CHECKED BY	BG	3/2019
3			APPROVED BY	BG	3/2019

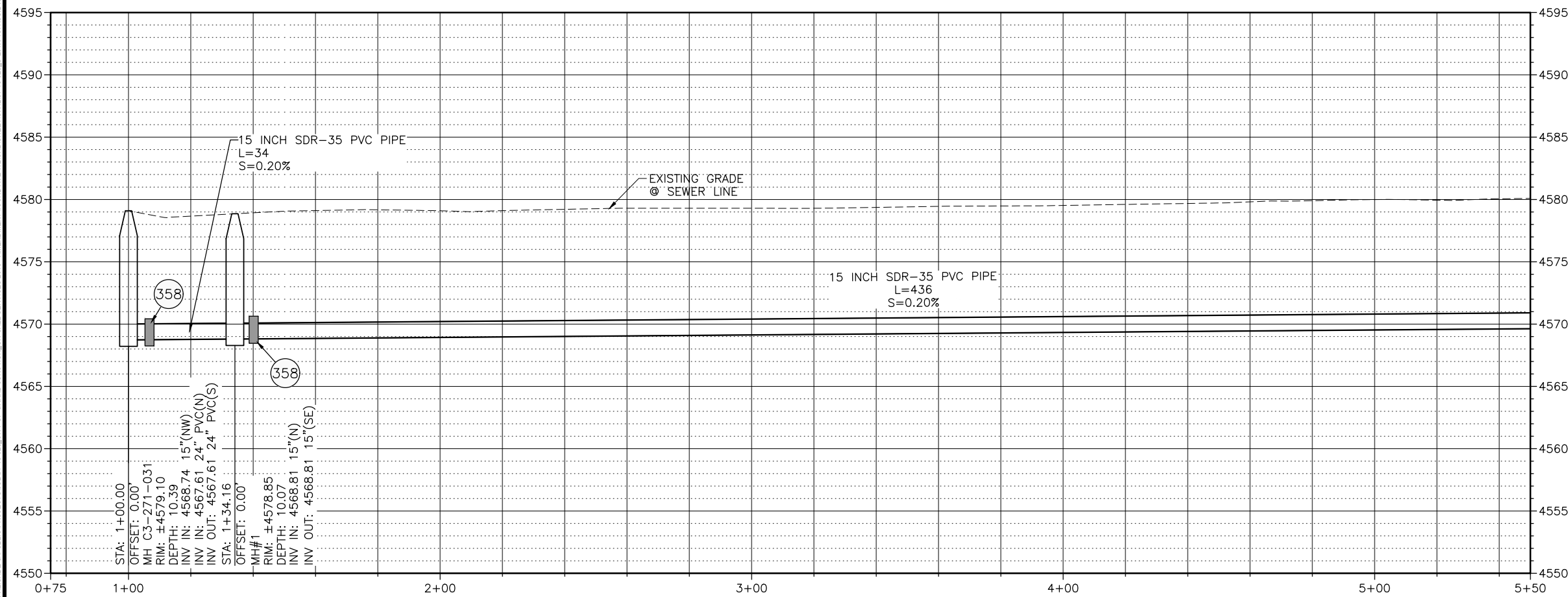
SCALES:	
PLAN	1" = 20'
PROFILE	1" = 20'



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - D ROAD SANITARY SEWER**



- 12 202 - REMOVAL OF FENCE AS SHOWN. (40 L.F. 5' CHAIN LINK FENCE)
- 102 210 - RESET FENCE. (40 L.F. 5' CHAIN LINK FENCE)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAILS SS-02).
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D > 5') (48" I.D.)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 366 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 399 102.11/105.8 - CONNECT TO EXISTING MANHOLE (15" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 806 PROTECT FENCE
- 854 RECONFIGURE MANHOLE BENCH TO ALLOW FOR PROPOSED 15" SEWER PIPE

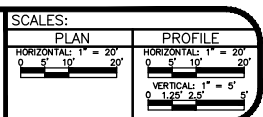


NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.  
 • CONTRACTOR TO COORDINATE WITH SAWMILL FOR TEMPORARY RELOCATION OF LUMBER DURING CONSTRUCTION



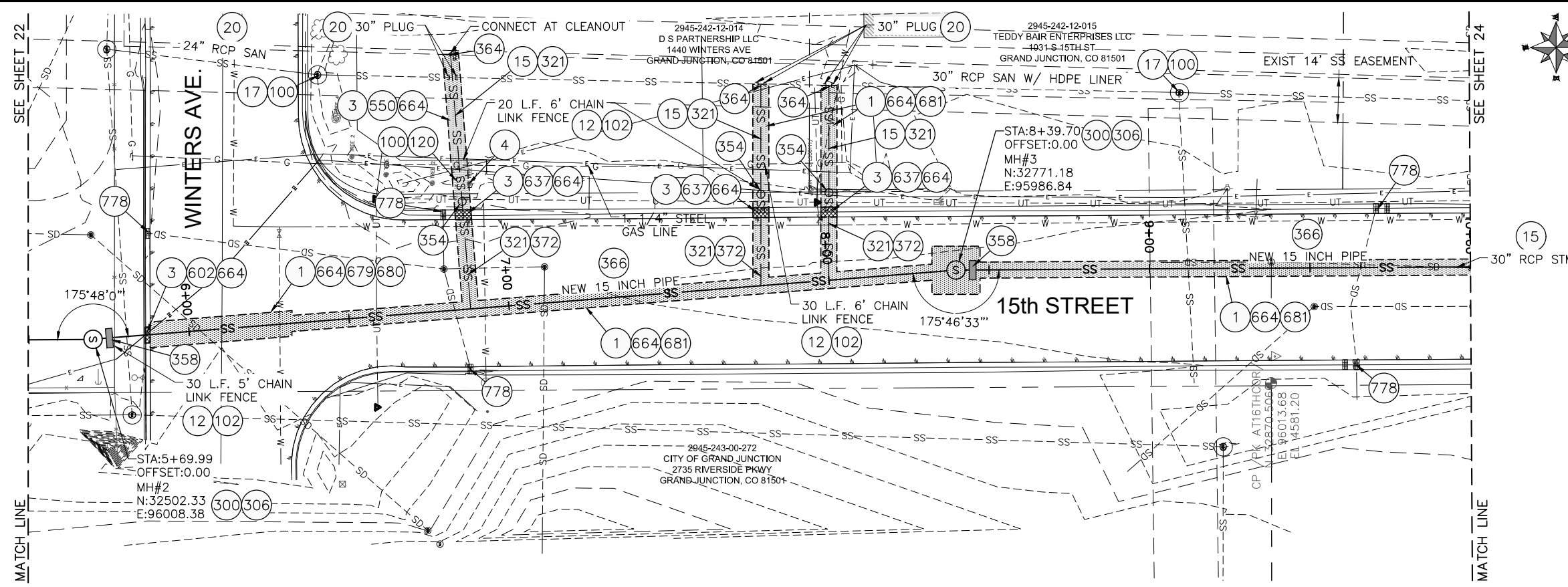
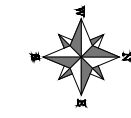
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
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REVISION B			CHECKED BY	BG	DATE 3/2019
REVISION C			APPROVED BY	BG	DATE 3/2019

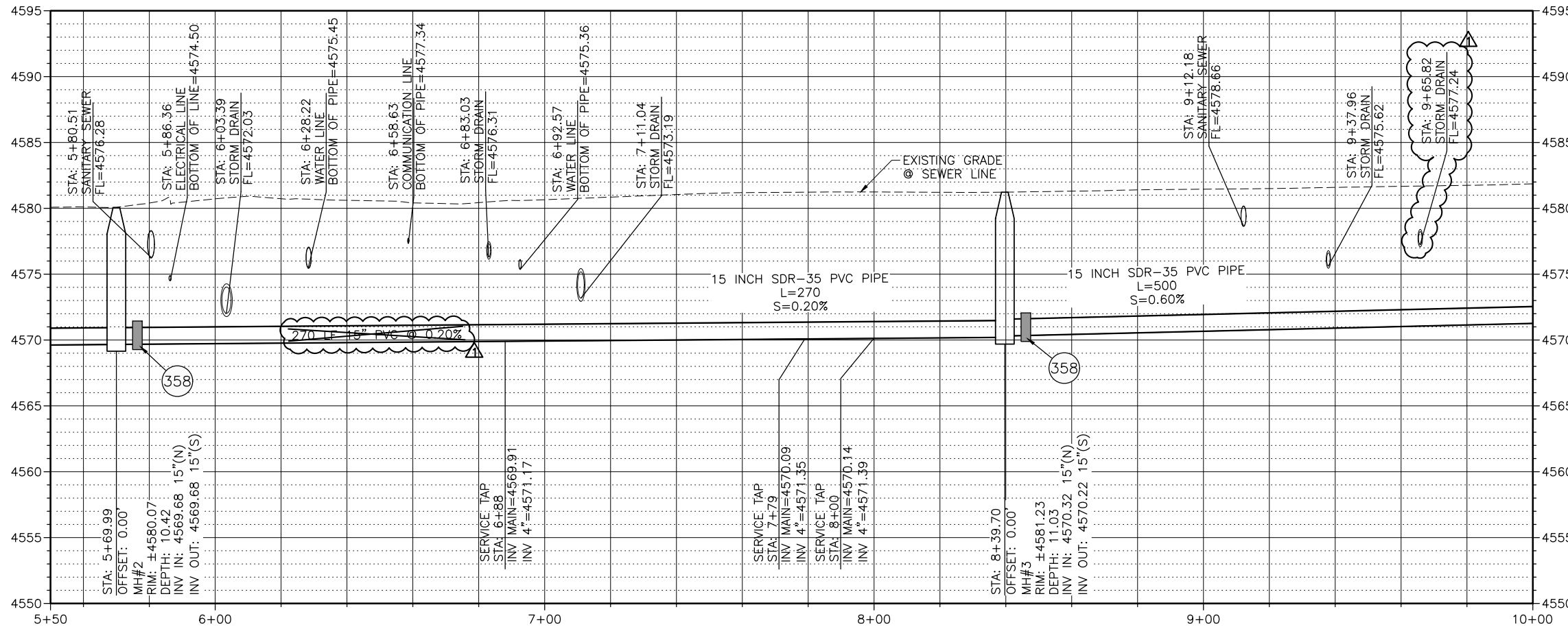


**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
 PLAN & PROFILE - 15TH ST SANITARY SEWER

Per Date: 3/20/2019 2:02 PM Plotted By: Erik Snyder  
 Date Created: 3/20/2019 1:17:11 PM File Path: C:\Users\erik.snyder\OneDrive\Documents\81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE WLCADSHHECTICVIL181-18-029-C-2019-15THSS.DWG



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 4 REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
- 12 202 - REMOVAL OF FENCE AS SHOWN. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 120 210 - RESET SPRINKLER SYSTEM (COMPLETE IN PLACE)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 366 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 372 102.9/108.3 - 15"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 550 412 - CONCRETE PAVEMENT (6" THICK) (CDOT CLASS D, 4500 PSI MIX)
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
- 637 608.06 - CONCRETE VALLEY GUTTER (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75)(ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)



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

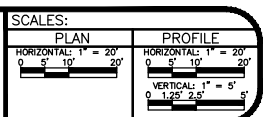
NOTES:

- DO NOT INSTALL STEPS IN NEW MANHOLES.
- CONTRACTOR TO COORDINATE WITH SAWMILL FOR TEMPORARY RELOCATION OF LUMBER DURING CONSTRUCTION

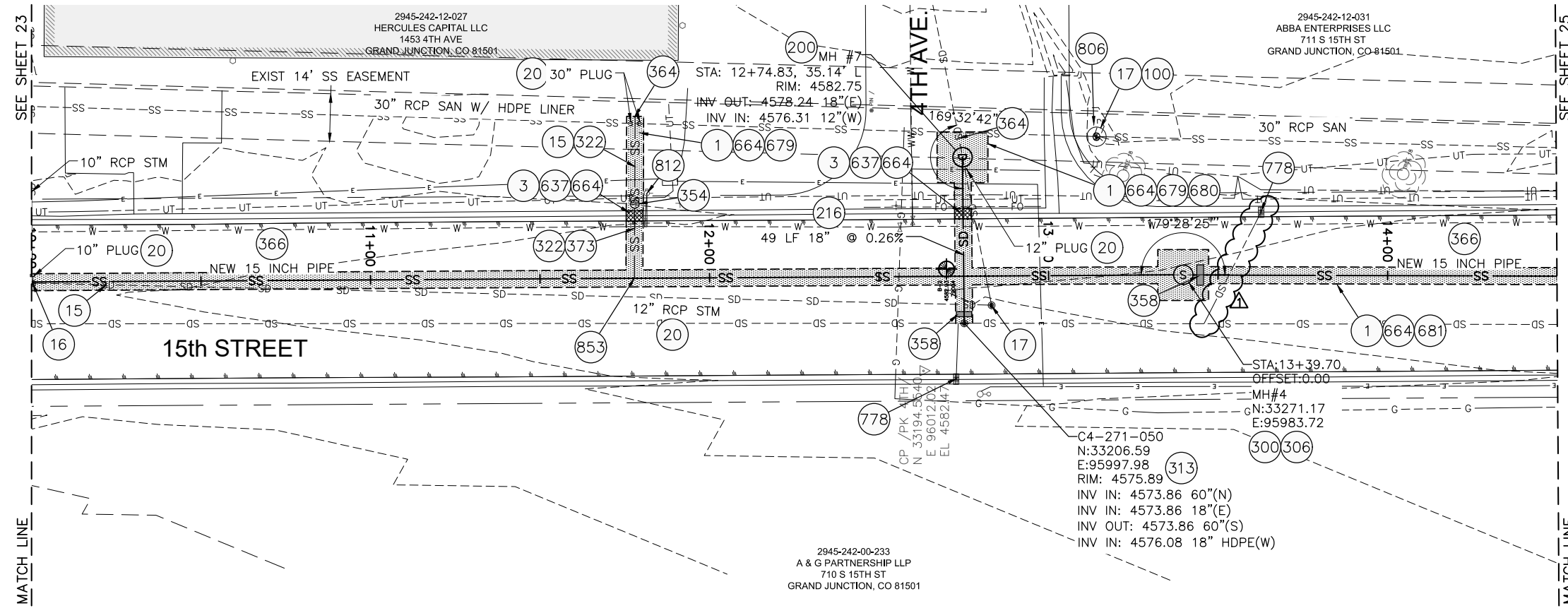
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 5/17/2019 10:39 AM Plotted By: Erik Snyder  
 Date Created: 2/29/2019 10:11 PALISADE-G:\PUBLIC\PROJECTS\81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W\LCDASH\ETC\CIVIL\81-18-029-C-201X-15THSS.DWG

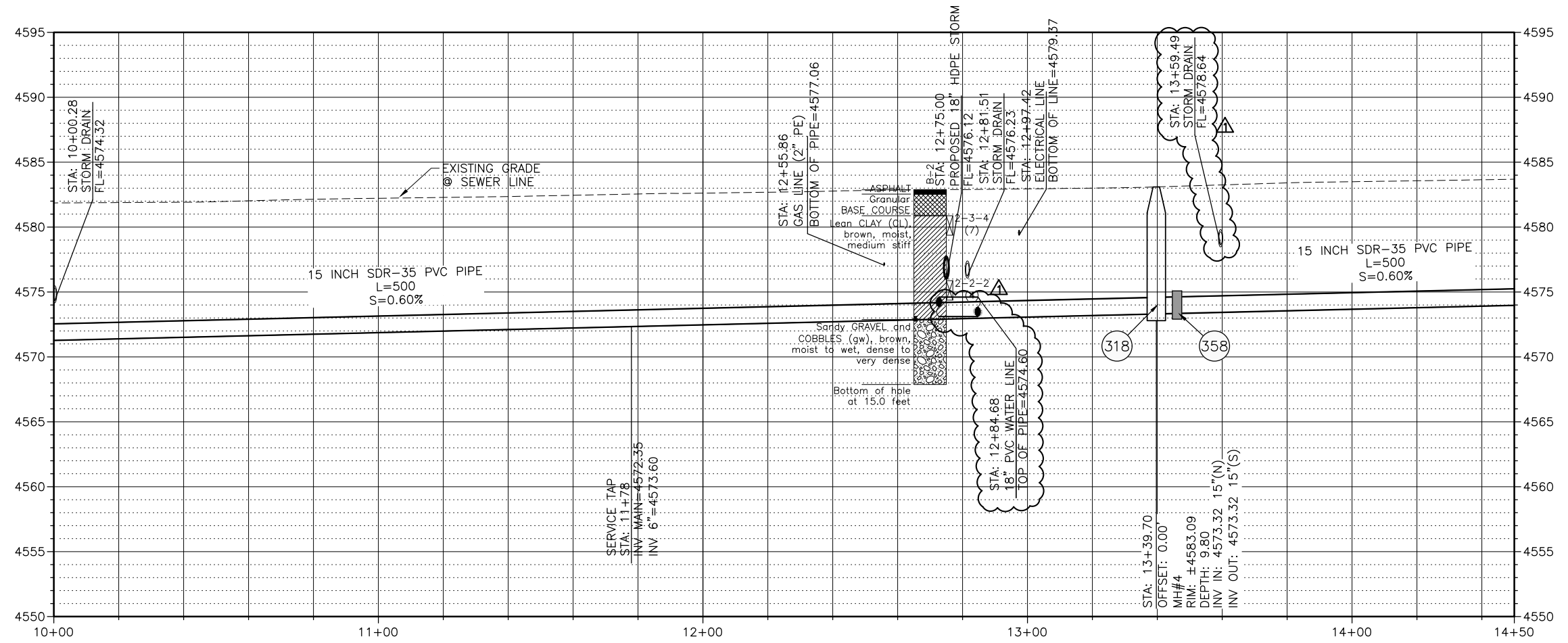
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2			BG		3/2019
3			BG		3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 15TH ST SANITARY SEWER**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 200 102.11/108.5 - STORM SEWER BASIC MANHOLE (48" I.D.) INCLUDES CONNECTION OF ADJACENT STORM SEWER LINES, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-03)
- 216 102.10/108.2 - 18" STORM DRAIN PIPE (ADS CORRUGATED HDPE PIPE). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.) INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 313 102.11/108.5 - CONNECT TO EXISTING MANHOLE (18" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-12).
- 318 PROVIDE PVC INVERT. (PIPE SHALL BE LAID CONTINUOUSLY THROUGH MANHOLE). COST IS INCIDENTAL TO COST OF MANHOLE INSTALLATION.
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 366 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 373 102.9/108.3 - 15"x6" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 637 608.06 - CONCRETE VALLEY GUTTER (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR =75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR = 75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD. DETAIL GU-03)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75)(ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)
- 778 208 - STORM DRAIN INLET PROTECTION (GRAVEL FILTER AT CURB INLET) (AS SHOWN AND PER DETAIL)
- 806 PROTECT FENCE
- 812 PROTECT FIRE HYDRANT
- 853 CONTRACTOR SHALL CONFIRM SIZE OF SERVICE PIPE PRIOR TO INSTALLATION OF WYE FITTING

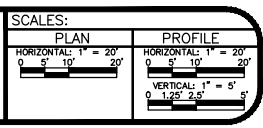


NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.

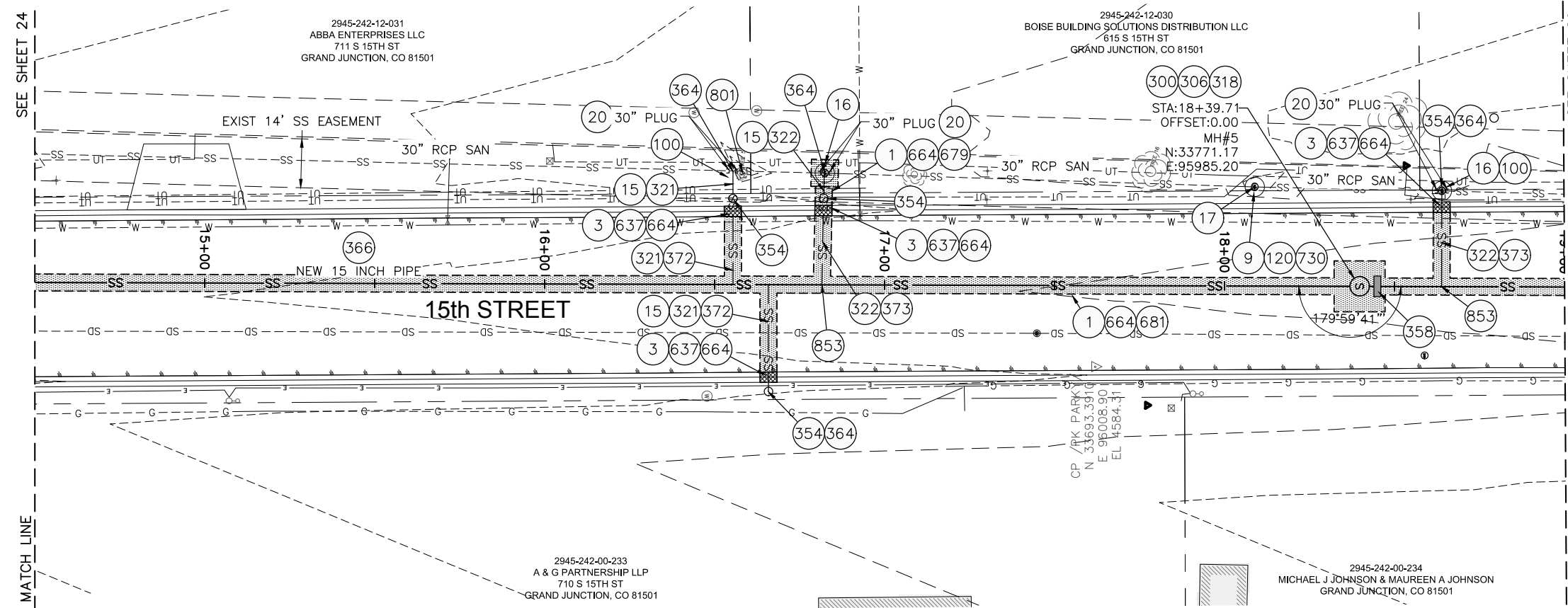
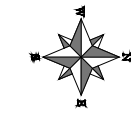
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 5/17/2019 10:39 AM Plotted By: Erik Snyder  
 Date Created: 2/29/2019 10:11 PALISADE-G:\PUBLIC\PROJECTS\81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W\CAD\SHHECT\CVL\81-18-029-C-201X-15THSS.DWG

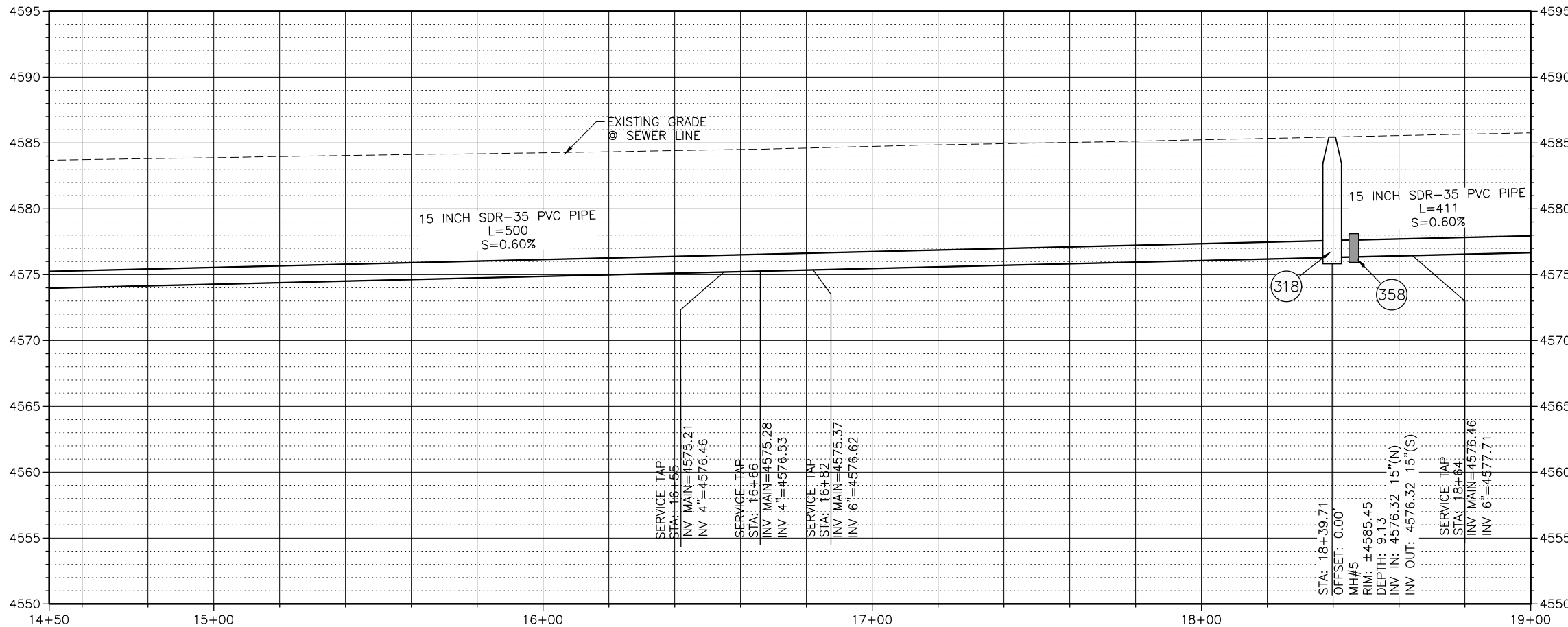
REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
REVISION A	ADDENDUM #3	5/10/2019	DESIGNED BY	ES	DATE 3/2019
REVISION B			CHECKED BY	BG	DATE 3/2019
REVISION C			APPROVED BY	BG	DATE 3/2019



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 15TH ST SANITARY SEWER**



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS
- 9 202 - REMOVAL OF SOD
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS
- 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 120 210 - RESET SPRINKLER
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 318 PROVIDE PVC INVERT. (PIPE SHALL BE LAID CONTINUOUSLY THROUGH MANHOLE). COST IS INCIDENTAL TO COST OF MANHOLE INSTALLATION.
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 366 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 372 102.9/108.3 - 15"x4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 373 102.9/108.3 - 15"x6" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06)
- 609 608.06 - CONCRETE CURB WITH SPILL GUTTER (2' WIDE)
- 637 608.06 - CONCRETE VALLEY GUTTER (MATCH IN KIND)
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)
- 730 212 - RESOD AREA AS SHOWN
- 801 PROTECT TREE
- 853 CONTRACTOR SHALL CONFIRM SEWER SERVICE SIZE PRIOR TO INSTALLATION OF WYE FITTING

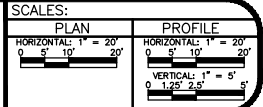


Know what's below.  
Call before you dig.

NOTES:  
• DO NOT INSTALL STEPS IN NEW MANHOLES.

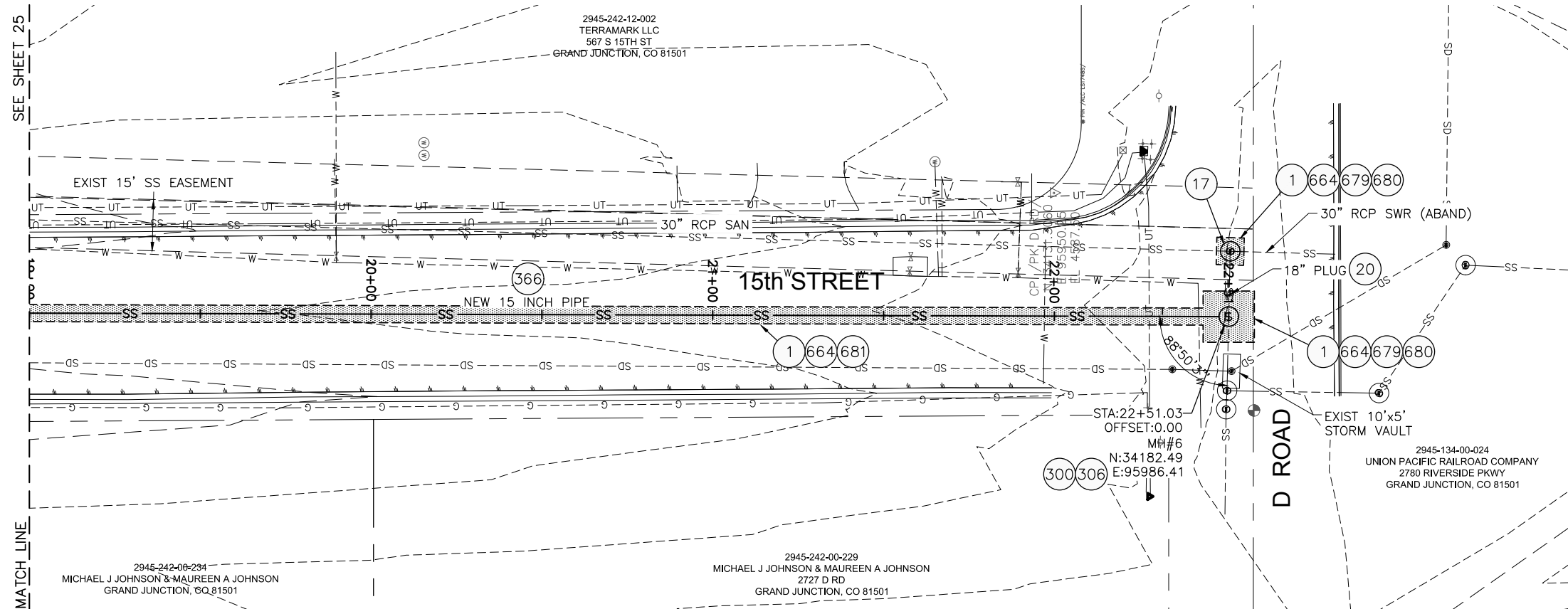
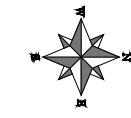
**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
1			ES		3/2019
2			BG		3/2019
3			BG		3/2019

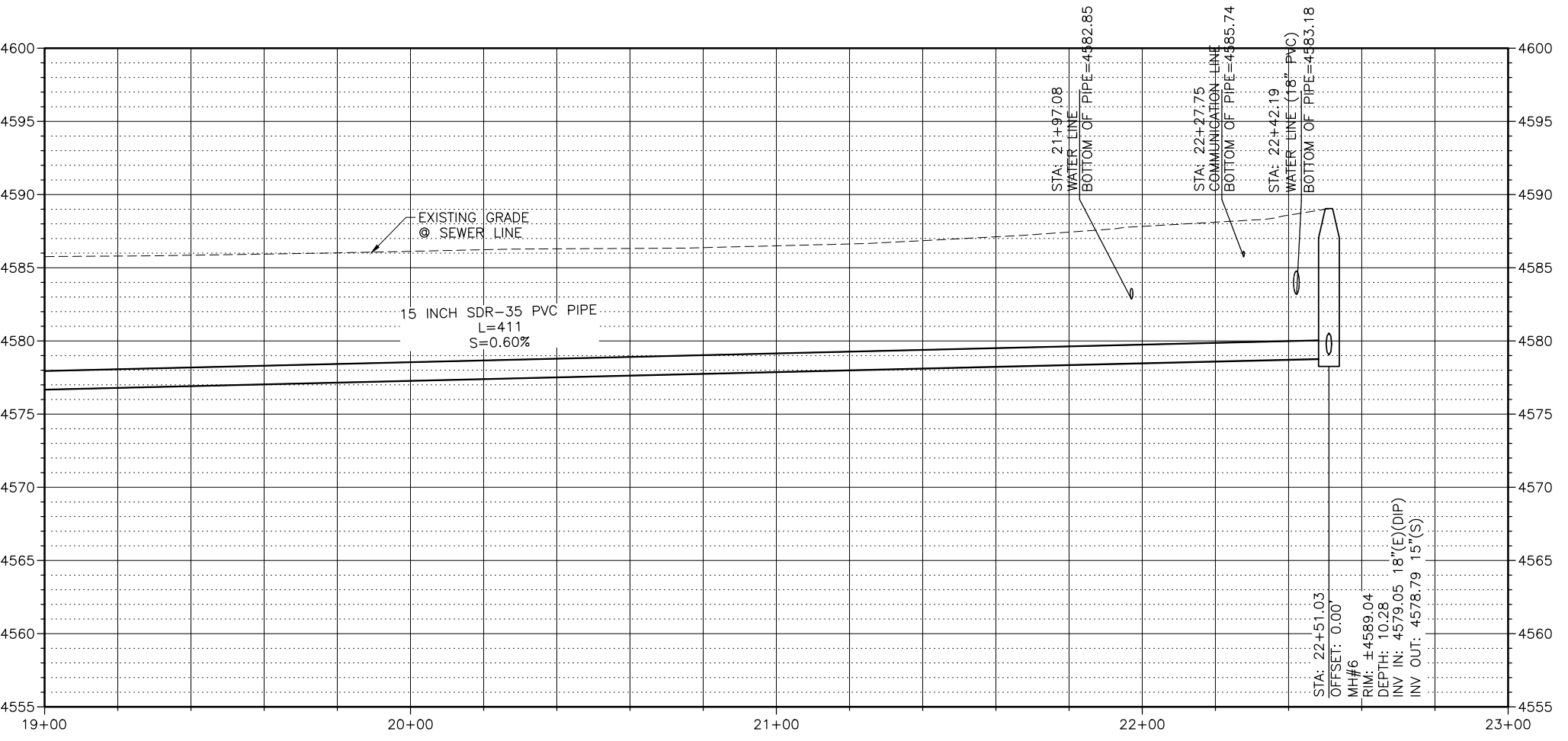


**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
PLAN & PROFILE - 15TH ST SANITARY SEWER

Per Date: 3/20/2019 2:04 PM Plotted By: Erik Snyder  
 Date Created: 3/20/2019 1:11 PM PALISADE-GPJUB/C:\PROJECTS\81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W/CADSHHEET\CIVIL\81-18-029-C-2019-15THSS.DWG



- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT
- 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
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- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 366 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 130.16 EARTH BACKFILL MATERIAL
- 664 304 - AGGREGATE BASE COURSE (CLASS 6) (15" THICK)
- 679 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 3" LIFT BOTTOM MAT)
- 680 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (2" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75) (ONE 2" LIFT TOP MAT) (T-TOP PATCH) (SEE CITY STD> DETAIL GU-03)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (5" THICK) (GRADING SX, BINDER GRADE PG 64-22, GYR=75)(ONE 3" BOTTOM LIFT, ONE 2" TOP LIFT)



NOTES:  
 • DO NOT INSTALL STEPS IN NEW MANHOLES.



**CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES**

Per Date: 3/20/2019 2:05 PM Plotted By: Erik Snyder  
 Date Created: 2/29/2019 10:11 AM PALISADE-CIPUBLIC/PROJECT/SUB/81-18-029-CITY OF GRAND JUNCTION ON CALL SERVICES 2019- AMENDMENT #3 3RD AVE W/CDASH/HEET/CIVIL/81-18-029-C-2019-15THSS.DWG

REVISION	DESCRIPTION	DATE	DRAWN BY	TAG	DATE
REVISION			DESIGNED BY	ES	DATE 3/2019
REVISION			CHECKED BY	BG	DATE 3/2019
REVISION			APPROVED BY	BG	DATE 3/2019

SCALES:	
PLAN	HORIZONTAL: 1" = 20'
PROFILE	HORIZONTAL: 1" = 20'
	VERTICAL: 1" = 5'



**2019 SOUTH DOWNTOWN WATER & SANITARY SEWER REPLACEMENT PROJECT**  
**PLAN & PROFILE - 15TH ST SANITARY SEWER**