



Purchasing Division

## **ADDENDUM NO. 2**

**DATE:** August 26, 2020  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Offerors  
**RE:** 2020 Sewer Line Replacement Project  
IFB-4821-20-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to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.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. Does the prime contractor awarded the 2020 Sewer Project need to be prequalified as a prime contractor with CDOT? Or is it enough to be registered to work in CDOT right of way?
  - A. *Since the Contractor will be working for the City of Grand Junction, the Contractor completing the work must be registered with CDOT to work within CDOT right-of-way. Prequalification as a CDOT prime contractor is not required.*
2. Q. IFB document states that the Owner is exempt of State and Federal taxes. Does the contractor need to include the City's and County's taxes in the bid since the work is within these limits?
  - A. *The Contractor completing this sewer Project will be exempt from City and County taxes. The Project Engineer and/or the City Buyer can provide a tax-exempt certificate if necessary.*
3. Q. Can you provide the locations of the existing manholes both upstream and downstream for existing sewers which need bypass pumping?
  - A. *The City GIS Utility map provides the locations of upstream and downstream sewer manholes. The City GIS map is available at [www.gjcity.org](http://www.gjcity.org). It's the Contractor's responsibility to determine the best means and methods for bypassing the wastewater flows.*
4. Q. Can you provide flows for the existing sewers?

- A. *The City doesn't have flow records or has recently had flow measuring equipment installed in these sewer lines. Determination of sewer flows will ultimately be the Contractor's responsibility or their bypass pumping subcontractor for determining what the flows are and what size pumps will be needed. The City's Project Engineer did a best guess estimate on the flows in the sewer lines along 1<sup>st</sup> Street only. These flow estimates were taken at about 9:00 am on a weekday. The sewer flows in the existing 27-inch sewer pipe near the Pufferbelly Restaurant (Manhole station 0+75.57) were estimated at about 1 cfs (450 gpm). The sewer flows in the existing 24-inch sewer pipe near Two River's Convention Center (Manhole station 4+85.80) has the highest flows. The flow in the 24-inch pipe is estimated at about 3 cfs (1,350 gpm). The sewer flows in the existing 8-inch laterals coming from the east of 1<sup>st</sup> Street had minimal flows. The flows in these existing 8-inch pipes are probably around 0.25 cfs (115 gpm).*
5. Q. Bid items 2, 3, 4, 6, and 7 calls for the Backfill of trench with Class 3 imported backfill material. Bid item 10 is for 1,400 tons of imported trench backfill Class 3. Please confirm that bid items 2, 3, 4, 6, and 7 does not require to provide Class 3 backfill material as this material is covered on bid item 10.
- A. *The following Bid Items: 2, 3, 4, 6, and 7 include trench backfill with Class 3 Imported Trench Backfill Material. The Bidder's shall include the cost for backfilling with Class 3 Imported Trench Backfill Material in their Lineal Foot unit price for these sewer pipe pay items.*
- Bid Item 10 is for Imported Trench Backfill Material needed for backfill around the new sewer manholes in 1<sup>st</sup> Street, as well as, any Trench Backfill Material needed for backfill at the Shadow Lake sewer replacement.*
6. Q. Please advise on where we should anticipate the use of Bid Item 22 for the Type B granular stabilization material. Contractors will need this info in order to calculate the haul routes accordingly.
- A. *The City does not have specific locations highlighted in the Construction Plans that will require Type B Granular Stabilization material. The use of Type B Granular Stabilization material is typically decided in the field once the Project Engineer and Contractor see how firm the native soil subgrade is. If the native soil subgrade is soft and there's concerns the Contractor may have a hard time maintaining pipe grade due to the soft subgrade soils, then the City will authorize and pay for the use of Type B Granular Stabilization material. Typically, the City will start with having the Contractor over-excavate and place about 18-inches of Type B material in the trench bottom to firm up the subgrade, so the Contractor has a better working platform for pipe installation.*
7. Q. Can a new line item be added for an alternate to bid item 5 (Pipe Bursting)? This line item would be for CIPP on the existing 10" line, which only appears to be taking in an 8" like coming from the east. This would allow a contractor to select either one of the methods, which would result on savings and a safer project.
- A. *No, at this point the City is going to stay with pipe-bursting this section of sewer pipe.*

8. Q. Drawing Sheet 7 has a verification and hook up note at Sta 16+88. With this being an unknown, can a bid item be added for this?
- A. *If this sewer service is discovered to be active, the City will issue a Work Change Request for the Contractor to provide a price to hook up this sewer service. The City strongly believes the sewer service for this 104 White Ave. property connects into the existing sewer manhole in the alley at Station 17+43, however, verification is needed.*
9. Q. Can the MH inverts be pre-cast or do they need to be cast in place after the MH is installed?
- A. *The new manhole inverts need to be pre-cast inverts from the factory.*
10. Q. Bid Item 25 for abandoning MH calls to fill it with flow-fill material. Is this flow-fill material the one covered on bid item 34? Same question for bid items at Lakeside sewer.
- A. *Bid Item #25 has been changed to a different line item description. Please see updated Bid Schedule attached to this Addendum. To answer this question though, the wording of Bid Item #84 has been updated for the Lakeside sewer so it's more clear that the flow-fill material for abandoning the manhole is included in Pay Item #84..*
- Bid Item #34, Structure Backfill (Flow-Fill), is typically used for special backfilling situations where flow-fill will work the best for backfilling the trench or around a structure.*
11. Q. Can the MH base itself be cast in place?
- A. *For this project, all manhole bases shall be pre-cast units.*
12. Q. Does the proposed Castagra coating need to be installed on the flow line or just in the areas where the sewer flow is not present?
- A. *The Manhole Protective Coating shall be applied to the manhole flow-line areas, benches and interior walls of the new 1<sup>st</sup> Street sewer manholes.*
13. Q. On the Lakeside Sewer it states to protect retaining wall. Please let the contractor know how deep this wall is from existing ground and what type of footer does the wall have in order to plan accordingly for shoring requirements?
- A. *This concrete retaining wall is on a spread footer foundation. The City has no construction plans for this retaining wall. The City did dig and expose the outside edge of the spread footer and took survey shots. The top of the spread footer is about 2-3 feet below the existing ground surface and the spread footer extends about 1-2 feet out from the vertical face of the retaining wall.*
14. Q. Sheet 11 (Lakeside) on the drawings call for note 807 on the top view. However, it is not showing on the actual notes. Please provide the description of Note 807.
- A. *Construction note #807 is for Protecting the existing sign. See updated Sheet 11 in the updated construction plans attached to this Addendum #2.*

15.Q. Sheet 10 & 11 (Lakeside) shows Note 120 to repair sprinkler irrigation system. Please provide layout of what is out there or provide more info on what should be expected to be encountered?

A. *These are private irrigation systems and the City has no as-built drawings and/or records that show the alignment of the irrigation pipes and sprinkler head locations. The City expects that the Contractor will encounter either PVC or HDPE sprinkler pipe at a depth of 8-inches to 24-inches. The size of the irrigation pipe is unknown and could vary in size from ¾" dia. pipe up to 2" dia. pipe. From the City's site survey, the existing sprinkler head locations are shown where the City Surveyor saw them or found them. The City doesn't guarantee that all sprinkler heads were located during the site survey. The City Inspector and Contractor will need to work together on locating all sprinkler heads and sprinkler pipes that get removed and/or damaged so they can be fixed and/or replaced with equal or better-quality products that are existing.*

16.Q. Sheet 11 (Lakeside) Note 217 calls for a 24" CMP Storm Drain. Is this to replace the existing pipe? This pipe goes from the Lake Lenore into the existing canal and it seems to be running at full capacity. Is there a time frame when this flow will be reduced or a way to reduce the flow into this pipe? Will bypass be needed?

A. *The City anticipates that when irrigation water is turned off in the Grand Junction area the flow through this culvert will be dry. Irrigation water is typically turned off at the end of October. Since the Lakeside sewer replacement is to start after the completion of 1<sup>st</sup> Street and Shadow Lake sewer the City anticipates this culvert will be dry. If there is still a small amount of flow going through the culvert later in the year, the Contractor can potentially sandbag upstream of the culvert to stop flows from getting to the culvert.*

17.Q. Can 10" DR 18 pipe be used as an alternative to 10" SDR-26 for pipe bursting?

A. *Certa-Flo PVC gravity sewer pipe isn't available in SDR-18. The City found a discrepancy between the construction plans and the bid schedule. Certa-Flo PVC SDR-21 ASTM D-2241 gravity sewer pipe shall be used for the pipe-bursting. The updated construction plans attached correct construction note #34 to show SDR-21 pipe.*

18.Q. Note 312 on the drawings call for 30 mil Minimum thickness on the MH coating. Bid item 21 calls for 40 mils thickness. Which one is correct?

A. *The correct dry film thickness for the Manhole Protective Coating line item is 40 mils minimum. The updated construction plans attached correct construction note #312 to show 40 mils thickness.*

19.Q. Can we do milling/planning for line item #28 and item #86 for full depth asphalt removal? If milling is allowed, can we dump those millings from full depth asphalt removal at the City shops?

A. *Yes, the Contractor could complete full-depth asphalt milling if they chose, and yes the City would allow the Contractor to dispose of the asphalt millings at the City's stockpile for asphalt millings. The City's asphalt millings stockpile is now located north of the City Cemetery in Orchard Mesa. The address for the cemetery is 2620 Legacy Way.*

20.Q. Sheet 10, at Sta: 2+42.86, the plan view calls for 323, 364 in the North East direction. However, we could not find an existing pipe flowing through the NE direction. Can you please clarify as to what is to be required at that location?

A. *There is an existing 8-inch sewer pipe coming from the NE that will need to be extended to the new sewer manhole at Station 2+99.80. The City verified this pipe on 8/25/2020.*

21.Q. Just got this from the manufacturer in regards to the Certaflow pipe: Currently have no 20-ft sticks in stock. Will not run more until they receive enough PO's, so lead time is TBD. 10-ft sticks are currently in stock. Will you accept 10-ft sticks for this project? Bid schedule states 20-ft sticks.

A. *The City will accept 10-ft long sticks of Certa-Flo SDR-21 PVC pipe if 20-ft sticks of pipe are not available when the time comes for ordering the pipe.*

22.Q. Page 4 – Connect to existing 27" VCP (x2), what kind of coupling is wanted since the MAX adapter coupling is not made in that size...regular Fernco, RC Fernco? Also, is there any way to verify the O.D. of existing VCP, to ensure proper size range of coupling is ordered?

A. *Due to the outside diameter differences between vitrified clay pipe and PVC sewer pipe, the City recommends using regular Fernco rubber couplings. The Contractor will be required to pour a concrete collar around the Fernco coupling to provide pipe support prior to backfilling pipes. There's no way for the City to determine the exact O.D. of the existing 27" VCP sewer pipe. From the EBAA Iron Pipe O.D. Chart, which is available on the internet, the O.D. of 27" clay pipe can be either 31" or 32.13".*

23.Q. Page 5 – Connect to existing 24" CIPP (x2), what kind of coupling is wanted since the MAX adapter coupling is not made in that size...regular Fernco, RC? Also, is there any way to verify the O.D. of the existing CIPP to ensure proper size range of coupling is ordered?

A. *Due to the outside diameter differences between vitrified clay pipe and PVC sewer pipe, the City recommends using regular Fernco rubber couplings. The Contractor will be required to pour a concrete collar around the Fernco coupling to provide pipe support prior to backfilling pipes. There's no way for the City to determine the exact O.D. of the existing 24" VCP sewer pipe that has an interior CIPP lining. From the EBAA Iron Pipe O.D. Chart, which is available on the internet, the O.D. of 24" clay pipe can be either 27.5" or 29.84".*

24.Q. On all of the other connections to existing pipes – are the Max adapters preferred or required?

A. *Max adapter couplings or an approved equal coupling can be used for connections into existing sewer pipe.*

25. An updated Bid Schedule is attached to this Addendum #2. A couple concrete pay item units were changed to Square Yard units for consistency with other concrete line items. A pay item for abandoning the existing sewer pipes in 1<sup>st</sup> Street using Cellular Grout or an approved equal flowable grout has been added.

26. Addendum #2 includes updated construction plans. Updates include correcting typos in the construction notes and including Cellular Grout in 1<sup>st</sup> Street for abandoning pipes, and additional manhole removals on 1<sup>st</sup> Street instead of abandoning manholes.

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

All other conditions of subject remain the same.

Respectfully,



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

## Bid Schedule: 2020 Sewer Line Replacement Project

### Addendum #2

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) (Shadow Lake)	30.	Lin. Ft.	\$ _____	\$ _____
2	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	117.	Lin. Ft.	\$ _____	\$ _____
3	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	400.	Lin. Ft.	\$ _____	\$ _____
4	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (1st Street Only) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	910.	Lin. Ft.	\$ _____	\$ _____
5	108.2	10" Gravity Sewer Pipe (Certa-Flo Pipe) (Certa-Flo PVC Gravity Sewer Pipe) (SDR-21) (ASTM D-2241) (20-ft Joints) (Joint Type: Certa-Lok Restrained Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) (1st Street Pipe-Bursting)	245.	Lin. Ft.	\$ _____	\$ _____
6	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (ASTM F-679, PS 46) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	10.	Lin. Ft.	\$ _____	\$ _____
7	108.2	27" Gravity Sewer Pipe (SDR-35 PVC) (ASTM F-679, PS 46) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	12.	Lin. Ft.	\$ _____	\$ _____

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Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
8	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Shadow Lake) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Native Materials meeting 103.16 Earth Backfill Materials)	274.	Lin. Ft.	\$ _____	\$ _____
9	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Shadow Lake) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Native Materials meeting 103.16 Earth Backfill Materials)	216.	Lin. Ft.	\$ _____	\$ _____
10	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> )	1,400.	Ton	\$ _____	\$ _____
11	108.3	8" Cap (PVC) (Gasketed) (Includes 4-ft long 4"x4" wood post per City Std. Detail SS-06)	1.	Each	\$ _____	\$ _____
12	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)	1.	Each	\$ _____	\$ _____
13	108.3	10" 45-degree Elbow (GxG) (1st Street Drop Manhole)	1.	Each	\$ _____	\$ _____
14	108.3	10" x 10" Wye Fitting (Full Body Wye) (GxGxG) (1st Street Drop Manhole)	1.	Each	\$ _____	\$ _____
15	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming invert and adjusting to final grade. (See City Std. Detail SS-02)	11.	Each	\$ _____	\$ _____
16	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming invert and adjusting to final grade. (See City Std. Detail SS-02)	1.	Each	\$ _____	\$ _____
17	108.5	Sanitary Sewer Basic Drop Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming invert and adjusting to final grade. (See City Std. Detail SS-02)	1.	Each	\$ _____	\$ _____
18	108.5	Manhole Barrel Section (D>5') (48" I.D.)	48.	Vert. Ft.	\$ _____	\$ _____

## Bid Schedule: 2020 Sewer Line Replacement Project

### Addendum #2

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
19	108.5	Manhole Barrel Section (D>5') (60" I.D.)	21.	Vert. Ft.	\$ _____	\$ _____
20	108.5	Connect to Existing Manhole (6" pipe) (Manhole D2-261-259 in alley north of White Ave.)	1.	Each	\$ _____	\$ _____
21	108.5	Manhole Protective Coating (Castagra Ecodur 201 Coating or Approved Equal) (Coating only applies to 1st Street Sewer Manholes) (40 mils Thickness, min.)	107.	Vert. Ft.	\$ _____	\$ _____
22	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> )	350.	Ton	\$ _____	\$ _____
23	201	Clearing and Grubbing (Shadow Lake Sewer)	1.	Lump Sum	\$ _____	\$ _____
24	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	25.	Each	\$ _____	\$ _____
25	202	Abandon Existing Sewer Pipe (Use Cellular Grout or and approved equal flowable grout for abandoning the old sewer lines in 1st Street) (500 psi @ 28 Day Compressive Strength)	1,300.	Lin. Ft.	\$ _____	\$ _____
26	202	Abandon Existing Water Valve Box (Close valve, remove top half of existing valve box, fill cavity to finished subgrade with flow-fill material) (1st Street)	1.	Each	\$ _____	\$ _____
27	202	Removal of Existing Pipe (Size & type as shown on plans)	993.	Lin. Ft.	\$ _____	\$ _____
28	202	Removal of Asphalt Mat (Full Depth)	1,100.	Sq. Yd.	\$ _____	\$ _____
29	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	670.	Sq. Yd.	\$ _____	\$ _____
30	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)	52.	Sq. Yd.	\$ _____	\$ _____
31	202	Removal of Sod	42.	Sq. Ft.	\$ _____	\$ _____

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Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
32	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	13.	Each	\$ _____	\$ _____
33	203	Disposal of Radioactive Material (Dispose at City Shops, 333 West Ave.) (If necessary) (Potential for Mill Tailings in 1st Street)	500.	Cu. Yd.	\$ _____	\$ _____
34	206	Structure Backfill (Flow-Fill)	100.	Cu. Yd.	\$ _____	\$ _____
35	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	6.	Each	\$ _____	\$ _____
36	208	Temporary Earth Berm (Shadow Lake Sewer)	443.	Lin. Ft.	\$ _____	\$ _____
37	208	Concrete Washout Facility	1.	Lump Sum	\$ _____	\$ _____
38	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)	32.	Sq. Ft.	\$ _____	\$ _____
39	210	Reset/Repair Sprinkler System (Complete in Place) (1st Street)	1.	Lump Sum	\$ _____	\$ _____
40	210	Reset Irrigation Pipe (Shadow Lake) (PVC Irrigation Pipe) (The City believes 4-inch dia. irrigation pipe was laid above or near the existing sewer line requiring relocation between stations 4+00 to 4+75) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1.	Lump Sum	\$ _____	\$ _____
41	212	Re-Sod Area as Shown (1st Street) (Includes 6" Thick Imported Topsoil placed prior to sod placement)	42.	Sq. Ft.	\$ _____	\$ _____
42	304	Aggregate Base Course (Class 6) (4" thick) (Shadow Lake Surface Treatment)	640.	Sq. Yd.	\$ _____	\$ _____
43	304	Aggregate Base Course (Class 6) (8" thick)	45.	Sq. Yd.	\$ _____	\$ _____
44	304	Aggregate Base Course (Class 6) (15" thick)	715.	Sq. Yd.	\$ _____	\$ _____

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Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
45	401	Cold Mix Asphalt (Temporary Patching) (3" Thick) (To be used on 1st Street as deemed necessary by Project Engineer)	250.	Sq. Yd.	\$ _____	\$ _____
46	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (One 2" Top Mat) ( <b>T-Top</b> )	1,350.	Sq. Yd.	\$ _____	\$ _____
47	401	Hot Bituminous Pavement (Patching) (4 " Thick) (Grading SX, PG 64-22) (GYR.=75) (Two 2" Lifts)	1,100.	Sq. Yd.	\$ _____	\$ _____
48	407	Emulsified Asphalt (Tack Coat)	355.	Gallon	\$ _____	\$ _____
49	608	Concrete Drainage Pan (3' Wide) (Match in Kind)	13.	Sq. Yd.	\$ _____	\$ _____
50	608	Monolithic Vertical Curb, Gutter, and Sidewalk (7.5-ft wide)	8.	Sq. Yd.	\$ _____	\$ _____
51	608	Monolithic Vertical Curb, Gutter, and Sidewalk (8-ft wide)	9.	Sq. Yd.	\$ _____	\$ _____
52	608	Concrete Driveway Section and Gutter (8" Thick) (CDOT Class D, 4500 psi Mix at 28-days)	22.	Sq. Yd.	\$ _____	\$ _____
53	608	Cap Top Half of Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	1.	Each	\$ _____	\$ _____
54	614	Concrete Barrier (Temporary) (Sewer Trench Protection along 1st Street) (Contractor shall provide and move barricades with the installation of the sewer line)	200.	Lin. Ft.	\$ _____	\$ _____
55	620	Portable Sanitary Facility	2.	Each	\$ _____	\$ _____
56	625	Construction Surveying (Includes As-Built Drawings) (1st Street & Shadow Lake Only)	1.	Lump Sum	\$ _____	\$ _____
57	626	Mobilization (1st Street & Shadow Lake Only)	1.	Lump Sum	\$ _____	\$ _____
58	627	Pavement Marking Paint (Water Based) (Single White Line) (Match Existing) (Pufferbelly Restaurant Parking Lot)	125.	Lin. Ft.	\$ _____	\$ _____

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Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
59	627	Pavement Marking Paint (Water Based) (Dashed White Line Marking) (1st Street) (Match Existing Dashed Lines)	1,260.	Lin. Ft.	\$ _____	\$ _____
60	627	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line) (1st Street Intersections)	162.	Sq. Ft.	\$ _____	\$ _____
61	630	Traffic Control Plan	1.	Lump Sum	\$ _____	\$ _____
62	630	Traffic Control (Complete in Place)	1.	Lump Sum	\$ _____	\$ _____
63	630	Flagging	1,500.	Hour	\$ _____	\$ _____
64	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1.	Lump Sum	\$ _____	\$ _____
65	---	---		---		
66		<b><u>Lakeside Sewer Replacement Bid Items:</u></b> (Bid Items below pertain only to the Lakeside Sewer Replacement Only)				
67	108.2	4" Sewer Pipe Service (SDR-35 PVC) (Includes cost of connection to the existing sewer service line)	50.	Lin. Ft.	\$ _____	\$ _____
68	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole) (Use MaxAdaptor Coupling for pipe connection or approved equal)	12.	Lin. Ft.	\$ _____	\$ _____
69	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole) (Use MaxAdaptor Coupling for pipe connection or approved equal)	610.	Lin. Ft.	\$ _____	\$ _____
70	108.2	24" Storm Drain Pipe (CMP)	15.	Lin. Ft.	\$ _____	\$ _____
71	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> )	300.	Ton	\$ _____	\$ _____
72	108.3	8" x 4" Sewer Service Tap (Full Body Wye) (Includes Wye and all fittings required to align and connect the sewer service pipe to the sewer tap)	1.	Each	\$ _____	\$ _____

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Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
73	108.3	8" x 6" Sewer Service Tap (Full Body Wye) (Includes Wye and all fittings required to align and connect the sewer service pipe to the sewer tap)	1.	Each	\$ _____	\$ _____
74	108.3	6" 45-degree Elbow (GxG) (Lakeside Sewer Drop Manholes)	1.	Each	\$ _____	\$ _____
75	108.3	6" x 6" Wye Fitting (Full Body Wye) (GxGxG) (Lakeside Sewer Drop Manholes)	1.	Each	\$ _____	\$ _____
76	108.3	8" 45-degree Elbow (GxG) (Lakeside Sewer Drop Manholes)	2.	Each	\$ _____	\$ _____
77	108.3	8" x 8" Wye Fitting (Full Body Wye) (GxGxG) (Lakeside Sewer Drop Manholes)	2.	Each	\$ _____	\$ _____
78	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)	2.	Each	\$ _____	\$ _____
79	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming invert and adjusting to final grade. (See City Std. Detail SS-02)	3.	Each	\$ _____	\$ _____
80	108.5	Sanitary Sewer Basic Drop Manhole (48" I.D.) (Includes connection of adjacent sewer line, forming invert and adjusting to final grade. (See City Std. Detail SS-02)	2.	Each	\$ _____	\$ _____
81	108.5	Manhole Barrel Section (D>5') (48" I.D.)	9.	Vert. Ft.	\$ _____	\$ _____
82	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> )	150.	Ton	\$ _____	\$ _____
83	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	6.	Each	\$ _____	\$ _____
84	202	Abandon Manhole (Includes removal of cone section, ring & cover, and filling remaining barrel sections with flow-fill material)	1.	Each	\$ _____	\$ _____
85	202	Removal of Existing Pipe (Size & type as shown on plans)	144.	Lin. Ft.	\$ _____	\$ _____
86	202	Removal of Asphalt Mat (Full Depth)	45.	Sq. Yd.	\$ _____	\$ _____

## Bid Schedule: 2020 Sewer Line Replacement Project

### Addendum #2

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
87	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	20.	Sq. Yd.	\$ _____	\$ _____
88	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)	117.	Sq. Yd.	\$ _____	\$ _____
89	202	Removal of Sod	630.	Sq. Ft.	\$ _____	\$ _____
90	202	Removal of Tree (Size as shown on Plans)	3.	Each	\$ _____	\$ _____
91	202	Removal of Shrub/Bush	5.	Each	\$ _____	\$ _____
92	202	Removal of Tree Stump	2.	Each	\$ _____	\$ _____
93	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	4.	Each	\$ _____	\$ _____
94	206	Structure Backfill (Flow-Fill)	15.	Cu. Yd.	\$ _____	\$ _____
95	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2.	Each	\$ _____	\$ _____
96	208	Concrete Washout Facility	1.	Lump Sum	\$ _____	\$ _____
97	210	Reset/Repair Sprinkler System (Complete in Place) (Lakeside Park Area)	1.	Lump Sum	\$ _____	\$ _____
98	210	Reset Sign	1.	Each	\$ _____	\$ _____
99	212	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	630.	Sq. Ft.	\$ _____	\$ _____
100	304	Aggregate Base Course (Class 6) (4" thick) (Lakeside Surface Treatment)	200.	Sq. Yd.	\$ _____	\$ _____
101	304	Aggregate Base Course (Class 6) (8" thick) (Basketball Court)	93.	Sq. Yd.	\$ _____	\$ _____
102	304	Aggregate Base Course (Class 6) (15" thick) (Lakeside Court)	44.	Sq. Yd.	\$ _____	\$ _____
103	401	Cold Mix Asphalt (Temporary Patching) (3" Thick) (To be used on Lakeside Court)	44.	Sq. Yd.	\$ _____	\$ _____

# Bid Schedule: 2020 Sewer Line Replacement Project

## Addendum #2

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
104	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (One 2" Top Mat) ( <b>T-Top</b> )	20.	Sq. Yd.	\$ _____	\$ _____
105	401	Hot Bituminous Pavement (Patching) (3" Thick) (Grading SX, PG 64-22) (GYR.=75) (One 3" Lift)	44.	Sq. Yd.	\$ _____	\$ _____
106	407	Emulsified Asphalt (Tack Coat)	6.	Gallon	\$ _____	\$ _____
107	608	Concrete Pavement (Basketball Court) (6" Thick) (Class D, 4500 psi Mix at 28-days) (Includes #5 tie-bars at 12" O.C. spacing) (Joints shall be sealed with an approved joint sealant) (See City Std. Detail C-32 for concrete patch details)	93.	Sq. Yd.	\$ _____	\$ _____
108	608	Monolithic Vertical Curb, Gutter, and Sidewalk (6.5-ft wide)	24.	Sq. Yd.	\$ _____	\$ _____
109	620	Portable Sanitary Facility	1.	Each	\$ _____	\$ _____
110	625	Construction Surveying (Includes As-Built Drawings) (Lakeside Sewer Only)	1.	Lump Sum	\$ _____	\$ _____
111	626	Mobilization (Lakeside Sewer Only)	1.	Lump Sum	\$ _____	\$ _____
112	630	Traffic Control Plan (Lakeside Sewer Only)	1.	Lump Sum	\$ _____	\$ _____
113	630	Traffic Control (Complete in Place) (Lakeside Sewer Only)	1.	Lump Sum	\$ _____	\$ _____
114	Pump	Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1.	Lump Sum	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	\$ 75,000.00	

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_ dollars

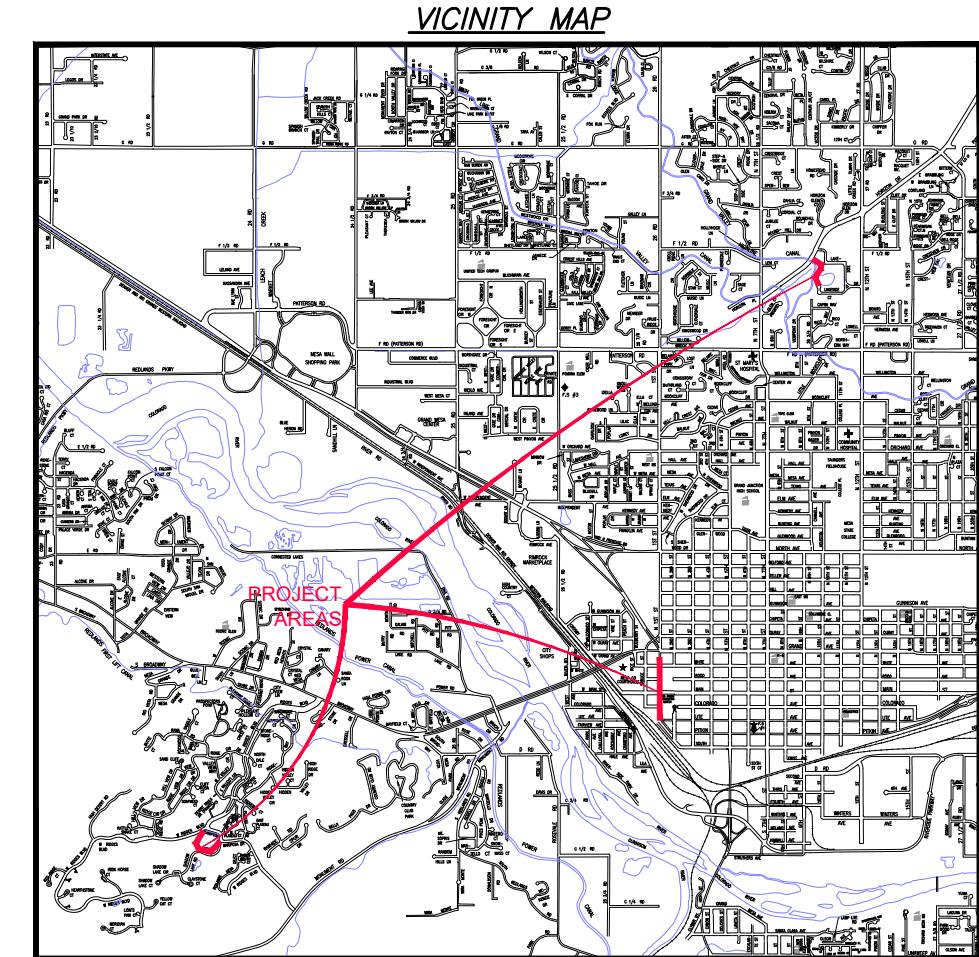
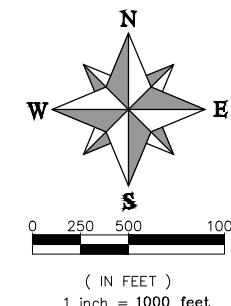
**Contractor Name:**

**Contractor Address:**

**Contractor Phone #:**

# CITY OF GRAND JUNCTION 2020 SEWER LINE REPLACEMENT PROJECT AUGUST 2020

- 1 —— COVER SHEET
- 2 —— STANDARD ABBREVIATIONS, LEGEND AND SYMBOLS
- 3 —— SUMMARY OF APPROXIMATE QUANTITIES
- 4-7 —— 1st STREET SEWER PLAN & PROFILE
- 8-9 —— SHADOW LAKE SEWER PLAN & PROFILE
- 10-11 —— LAKESIDE SEWER PLAN & PROFILE



UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
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
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	STEVE PIBURN	UNIT MANAGER	ELECTRIC	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2664	(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



*Public Works  
Engineering Division*

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.

DESCRIPTION	DATE
REVISION A XXX	- 201X
REVISION A ADDENDUM 2	- 8/26/2020
REVISION A XXX	- 201X
REVISION A XXX	- 201X



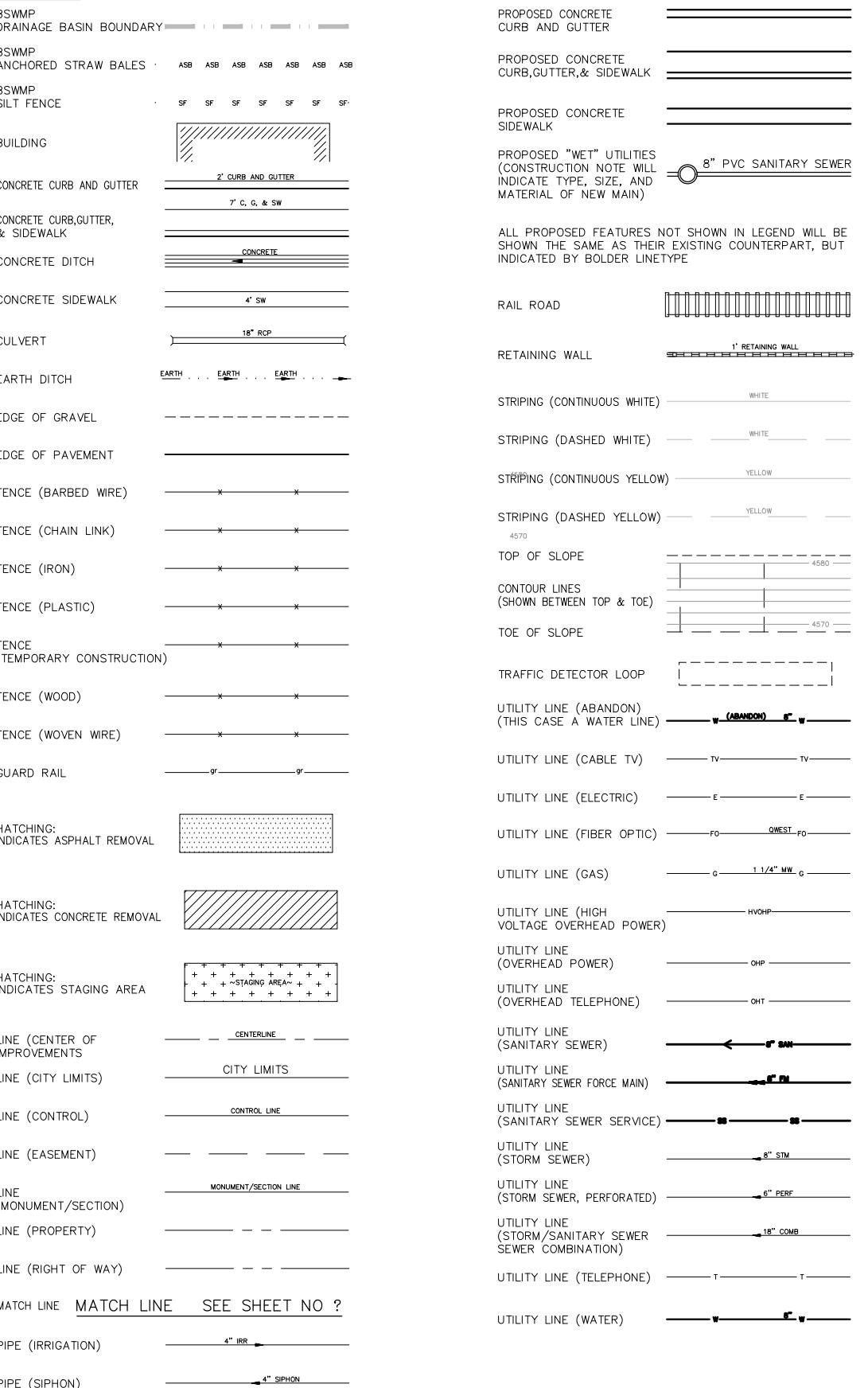
Know what's below.  
Call before you dig.

DRAWING STATUS:	<input checked="" type="radio"/> PROGRESS <input type="radio"/> FINAL CONSTRUCTION DRAWINGS <input type="radio"/> ASBUILT
DESIGNED BY:	LEE COOPER, PROJECT ENGINEER 2020
REVIEWED BY:	LEE COOPER, PROJECT ENGINEER 2020
AUTHORIZED FOR CONSTRUCTION	LEE COOPER, PROJECT ENGINEER 2020
ACCEPTED AS CONSTRUCTED	RANDI KIM, CITY UTILITIES DIRECTOR 2020
	LEE COOPER, PROJECT ENGINEER 2020

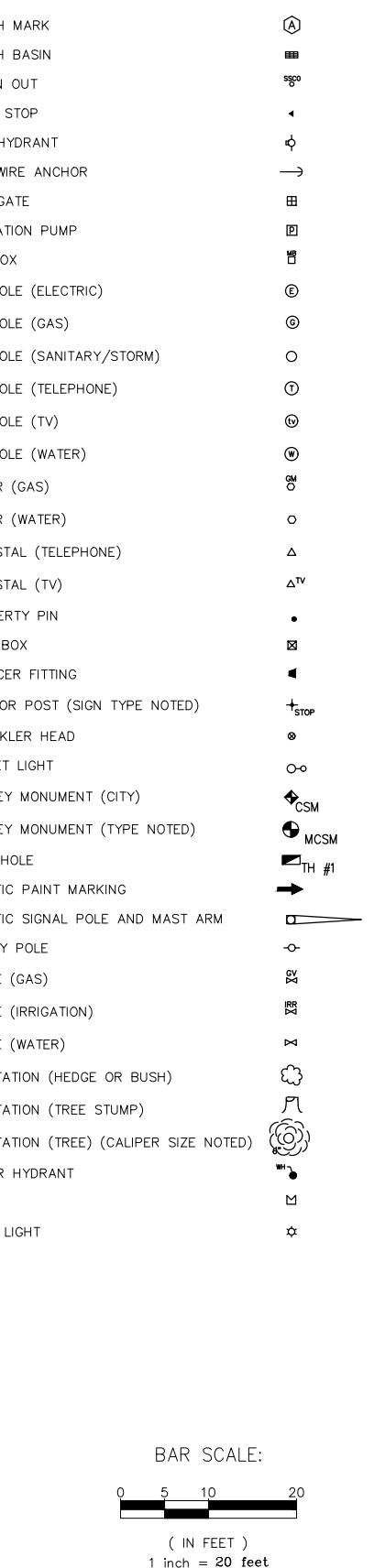
## ABBREVIATIONS

ASHTO	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
CG,& SW	CURB, GUTTER & SIDEWALK
CL	CENTER LINE
CMP	CLEAR
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
FCR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FCC	FACE OF CURB
FG	FINISHED GRADE
F	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
PIP	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PROPOSED	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
RG	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
SSSU	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
VPC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
△	DELTA ANGLE

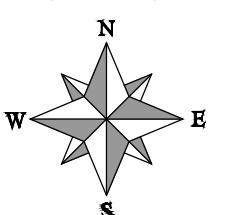
## LEGEND



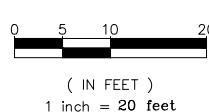
## SYMBOLS



NORTH ARROW:



BAR SCALE:



DESCRIPTION	DATE
REVISION △ ADDENDUM 2	8/26/2020
REVISION △	
REVISION △	
DRAWN BY JCS	DATE 4-02
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

SCALES: PLAN &amp; PROFILE



PUBLIC WORKS  
ENGINEERING DIVISION

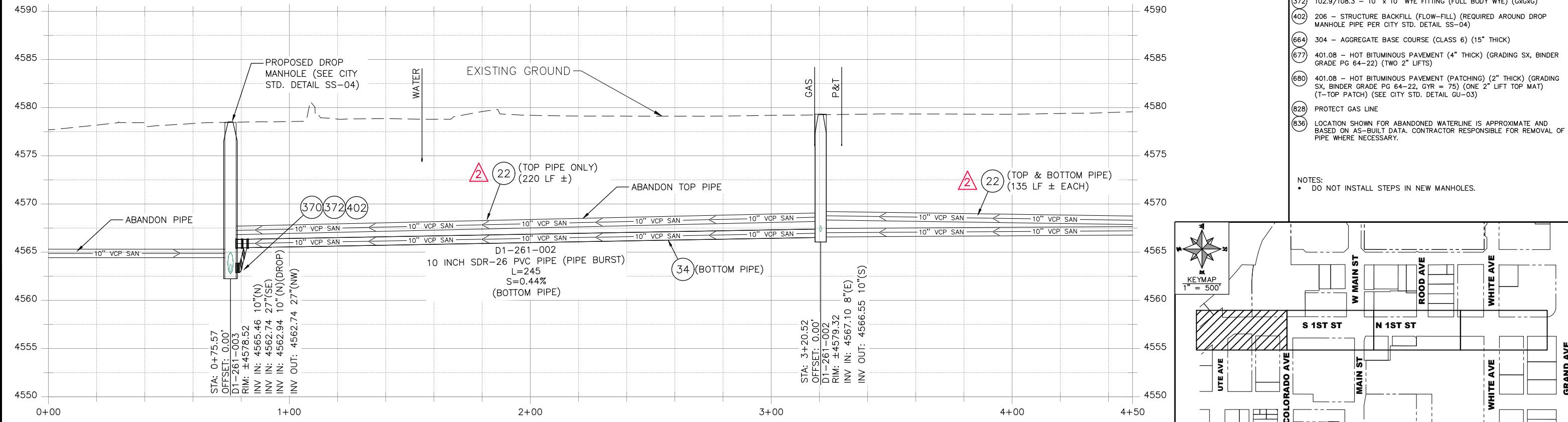
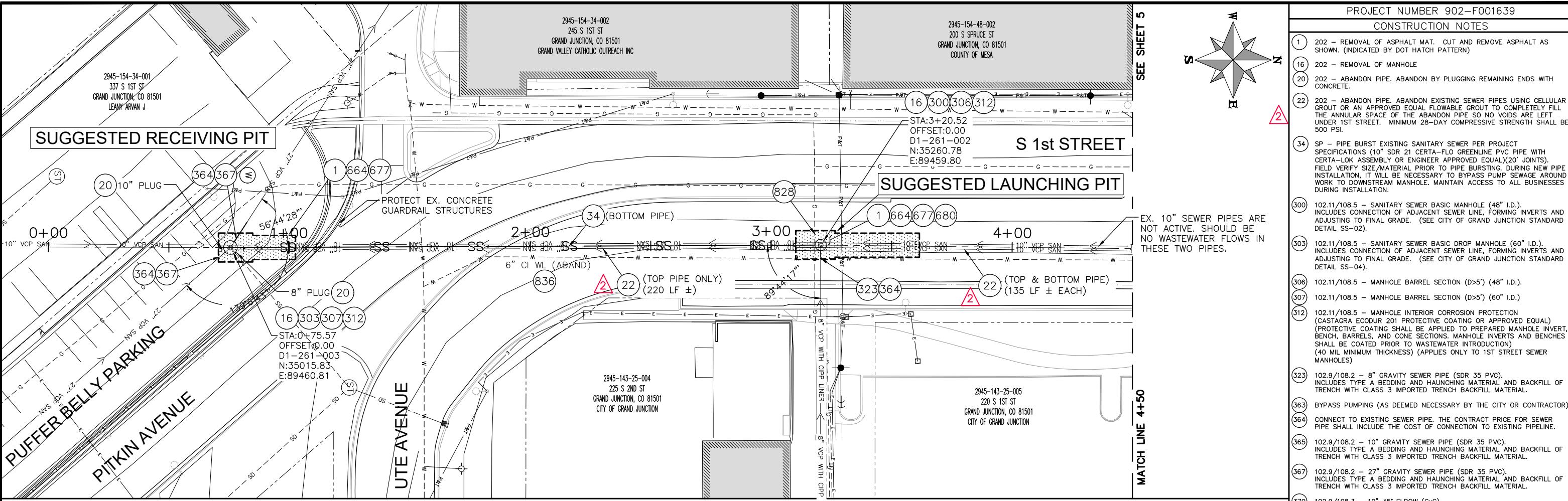
CITY OF GRAND JUNCTION  
STANDARD ABBREVIATIONS, LEGEND,  
AND SYMBOLS

Bid Schedule: 2020 Sewer Line Replacement Project					
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price
1	108.2	4" sewer Pipe Service (SDR-35 PVC) (Includes cost of connection to the existing sewer service line) (Shadow Lake)	30	Lin. Ft.	\$ _____
2	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	117	Lin. Ft.	\$ _____
3	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	400	Lin. Ft.	\$ _____
4	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (1st Street Only) (Includes Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	910	Lin. Ft.	\$ _____
5	108.2	10" Gravity Sewer Pipe (Certa-Flo Pipe) (Certa-Flo PVC Gravity Sewer Pipe) (SDR-21) (ASTM D-2241) (20-Joints) (Joint Type: Certa-Lok Restraint Joint Integral Bell) (Includes all necessary Pipe-Bursting Installation Equipment) (1st Street Pipe-Bursting)	245	Lin. Ft.	\$ _____
6	108.2	24" Gravity Sewer Pipe (SDR-35 PVC) (ASTM F-679, PS 46) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	10	Lin. Ft.	\$ _____
7	108.2	27" Gravity Sewer Pipe (SDR-35 PVC) (ASTM F-679, PS 46) (1st Street) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Class 3 Imported Trench Backfill Material)	12	Lin. Ft.	\$ _____
8	108.2	8" Gravity Sewer Pipe (SDR-35 PVC) (Shadow Lake) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Native Materials meeting 103.16 Earth Backfill Materials)	274	Lin. Ft.	\$ _____
9	108.2	10" Gravity Sewer Pipe (SDR-35 PVC) (Shadow Lake) (Includes cost of connection to the existing sewer pipe and Type A Bedding and Haunching Material and Backfill of Trench with Native Materials meeting 103.16 Earth Backfill Materials)	216	Lin. Ft.	\$ _____
10	108.2	Imported Trench Backfill (Class 3) (Includes haul and disposal of unusable excavated material) (Assumed material unit weight = 133 lbs/ft <sup>3</sup> )	1,400	Ton	\$ _____
11	108.3	8" Cap (PVC) (Gasketed) (Includes 4.4 long 4"x4" wood post per City Std. Detail SS-06)	1	Each	\$ _____
12	108.3	10" x 8" 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	\$ _____
13	108.3	10"-45-degree Elbow (GxG) (1st Street Drop Manhole)	1	Each	\$ _____
14	108.3	10" x 8" Wye Fitting (Full Body Wye) (GxGxG) (1st Street Drop Manhole)	1	Each	\$ _____
15	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)	11	Each	\$ _____
16	108.5	Sanitary Sewer Basic Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	1	Each	\$ _____
17	108.5	Sanitary Sewer Basic Drop Manhole (60" I.D.) (Includes connection of adjacent sewer line, forming inverts and adjusting to final grade. (See City Std. Detail SS-02)	1	Each	\$ _____
18	108.5	Manhole Barrel Section (D-5") (48" I.D.)	48	Vert. Ft.	\$ _____
19	108.5	Manhole Barrel Section (D-5") (60" I.D.)	21	Vert. Ft.	\$ _____
20	108.5	Connect to Existing Manhole (6" pipe) (Manhole 02-261-259 in alley north of White Ave.)	1	Each	\$ _____

Bid Schedule: 2020 Sewer Line Replacement Project					
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price
21	108.5	Manhole Protective Coating (Castagno Ecodur 201 Coating or Approved Equal) (Coating only applies to 1st Street Sewer Manholes)	107	Vert. Ft.	\$ _____
22	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> )	350	Ton	\$ _____
23	201	Clearing and Grubbing (Shadow Lake Sewer)	1	Lump Sum	\$ _____
24	202	Abandon Pipe (Abandon pipe by plugging ends with concrete)	25	Each	\$ _____
25	202	Abandon Manhole (Remove cone section, ring & cover, and fill remaining barrel sections with flow-fill material)	3	Each	\$ _____
26	202	Abandon Existing Water Valve Box (Close valve, remove top half of existing valve box, fill cavity to finished upgrade with flow-fill material) (1st Street)	1	Each	\$ _____
27	202	Removal of Existing Pipe (Size & type as shown on plans)	993	Lin. Ft.	\$ _____
28	202	Removal of Asphalt Mat (Full Depth)	1,100	Sq. Yd.	\$ _____
29	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	670	Sq. Yd.	\$ _____
30	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)	53	Sq. Yd.	\$ _____
31	202	Removal of Sod	42	Sq. Ft.	\$ _____
32	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	10	Each	\$ _____
33	203	Disposal of Radioactive Material (Disposal at City Shops, 333 West Ave.) (If necessary) (Potential for Mill Tailings in 1st Street)	500	Cu. Yd.	\$ _____
34	208	Structure Backfill (Flow-Fill)	100	Cu. Yd.	\$ _____
35	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	6	Each	\$ _____
36	208	Temporary Earth Berm (Shadow Lake Sewer)	443	Lin. Ft.	\$ _____
37	208	Concrete Washout Facility	1	Lump Sum	\$ _____
38	210	Re-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)	32	Sq. Ft.	\$ _____
39	210	Re-Install Repair Sprinkler System (Complete in Place) (1st Street)	1	Lump Sum	\$ _____
40	210	Re-Install Irrigation Pipe (Shadow Lake) (The City believes 4-inch dia. irrigation pipe was laid above or near the existing sewer line requiring relocation between stations 4+00 to 4+75) (Includes pipe, fittings, equipment, materials, and labor to relocate irrigation pipe)	1	Lump Sum	\$ _____
41	212	Re-Sod Area as Shown (1st Street) (Includes 6" Thick Imported Topsoil placed prior to sod placement)	42	Sq. Ft.	\$ _____
42	304	Aggregate Base Course (Class 6) (4" thick) (Shadow Lake Surface Treatment)	640	Sq. Yd.	\$ _____
43	304	Aggregate Base Course (Class 6) (6" thick)	46	Sq. Yd.	\$ _____
44	304	Aggregate Base Course (Class 6) (16" thick)	716	Sq. Yd.	\$ _____
45	401	Cold Mix Asphalt (Temporary Patching) (2" Thick) (To be used on 1st Street as deemed necessary by Project Engineer)	250	Sq. Yd.	\$ _____
46	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR=75) (One 2" Top Mat) (T-Top)	1,350	Sq. Yd.	\$ _____
47	401	Hot Bituminous Pavement (Patching) (4" Thick) (Grading SX, PG 64-22) (GYR=75) (Two 2" Lifts)	1,100	Sq. Yd.	\$ _____

Bid Schedule: 2020 Sewer Line Replacement Project					
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price
48	407	Emulsified Asphalt (Tack Coat)	365	Gallon	\$ _____
49	608	Concrete Drainage Pan (3' Wide) (Match in Kind)	120	Sq. Ft.	\$ _____
50	608	Monolithic Vertical Curb, Gutter, and Sidewalk (7.5 ft wide)	8	Sq. Yd.	\$ _____
51	608	Monolithic Vertical Curb, Gutter, and Sidewalk (8 ft wide)	9	Sq. Yd.	\$ _____
52	608	Concrete Driveway Section and Gutter (8" Thick) (SDR Class D, 4,500 psi Mix at 28-days)	22	Sq. Yd.	\$ _____
53	609	Cap Top Half of Sewer Pipe in Concrete per City Std. Detail GIU-04 (20' long) (If necessary)	1	Each	\$ _____
54	614	Concrete Barrier (Temporary) (Sewer Trench Protection along 1st Street) (Contractor shall provide and move barricades with the installation of the sewer line)	200	Lin. Ft.	\$ _____
55	620	Portable Sanitary Facility	2	Each	\$ _____
56	625	Construction Surveying (Includes As-Built Drawings) (1st Street & Shadow Lake Only)	1	Lump Sum	\$ _____
57	626	Mobilization (1st Street & Shadow Lake Only)	1	Lump Sum	\$ _____
58	627	Pavement Marking Paint (Water Based) (Single White Line) (Match Existing) (Pifferably Restaurant Parking Lot)	125	Lin. Ft.	\$ _____
59	627	Pavement Marking Paint (Water Based) (Dashed White Line) (Match Existing Lines) (1st Street) (Match Existing Dashed Lines)	1,280	Lin. Ft.	\$ _____
60	627	Preformed Thermoplastic Pavement Marking (Walk-Stop Line) (1st Street Intersections)	182	Sq. Ft.	\$ _____
61	630	Traffic Control Plan	1	Lump Sum	\$ _____
62	630	Traffic Control (Complete in Place)	1	Lump Sum	\$ _____
63	630	Flagging	1,500	Hour	\$ _____
64	641	Pump Bypass Sewage Pumping (As deemed necessary by City or Contractor)	1	Lump Sum	\$ _____
65	641	Lakeside Sewer Replacement Bid Items: (Bid items below pertain only to the Lakeside Sewer Replacement Only)			
66	641	4" Sewer Pipe Service (SDR-35 PVC) (Includes cost of connection to the existing sewer service line)	60	Lin. Ft.	\$ _____
67	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer service line)	12	Lin. Ft.	\$ _____
68	108.2	6" Gravity Sewer Pipe (SDR-35 PVC) (Includes cost of connection to the existing sewer pipe and/or manhole) (Uses MaxAdaptor Coupling for pipe connection or approved equal)	160	Ton	\$ _____
69	202	Removal of Sed	630	Sq. Ft.	\$ _____
70	202	Removal of Tree (Size as shown on Plans)	3	Each	\$ _____
71	202	Removal of Shrub/Bush	5	Each	\$ _____
72	202	Removal of Tree Stump	2	Each	\$ _____
73	202	Removal of Manhole (Price to include plugging existing abandoned pipes and removal and disposal of concrete sections)	4	Each	\$ _____
74	202	Structure Backfill (Flow-Fill)	15	Cu. Yd.	\$ _____
75	208	Storm Drain Inlet Protection (Silt-Sack Style or Approved Equal) (Includes Maintenance & Removal of Debris, & Removal of Inlet Protection)	2	Each	\$ _____
76	208	Concrete Washout Facility	1	Lump Sum	\$ _____
77	210	Re-Install Repair Sprinkler System (Complete in Place) (Lakeside Park Area)	1	Lump Sum	\$ _____
78	210	Re-Sod Area as Shown (Includes 6" Thick Imported Topsoil placed prior to sod placement)	630	Sq. Ft.	\$ _____
79	304	Aggregate Base Course (Class 6) (4" thick) (Lakeside Surface Treatment)	200	Sq. Yd.	\$ _____

Bid Schedule: 2020 Sewer Line Replacement Project					
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price
73	108.3	8" x 8" Sewer Service Tap (Full Body Wye) (Includes Wye and all fittings required to align and connect the sewer service pipe to the sewer tap)	1	Each	\$ _____
74	108.3	8" x 45-degree Elbow (GxG) (Lakeside Sewer Drop Manholes)	1	Each	\$ _____
75	108.3	8" x 6" Wye Fitting (Full Body Wye) (GxGxG) (Lakeside Sewer Drop Manholes)	1	Each	\$ _____
76	108.3	8" x 45-degree Elbow (GxG) (Lakeside Sewer Drop Manholes)	2	Each	\$ _____
77	108.3	8" x 8" Wye Fitting (Full Body Wye) (GxGxG) (Lakeside Sewer Drop Manholes)	2	Each	



DESCRIPTION DATE  
 REVISION ▲ ADDENDUM 2 - 8/26/2020  
 DRAWN BY MF DATE 07/2019  
 DESIGNED BY ES DATE 07/2019  
 CHECKED BY ES DATE 07/2019  
 APPROVED BY BG DATE 07/2019

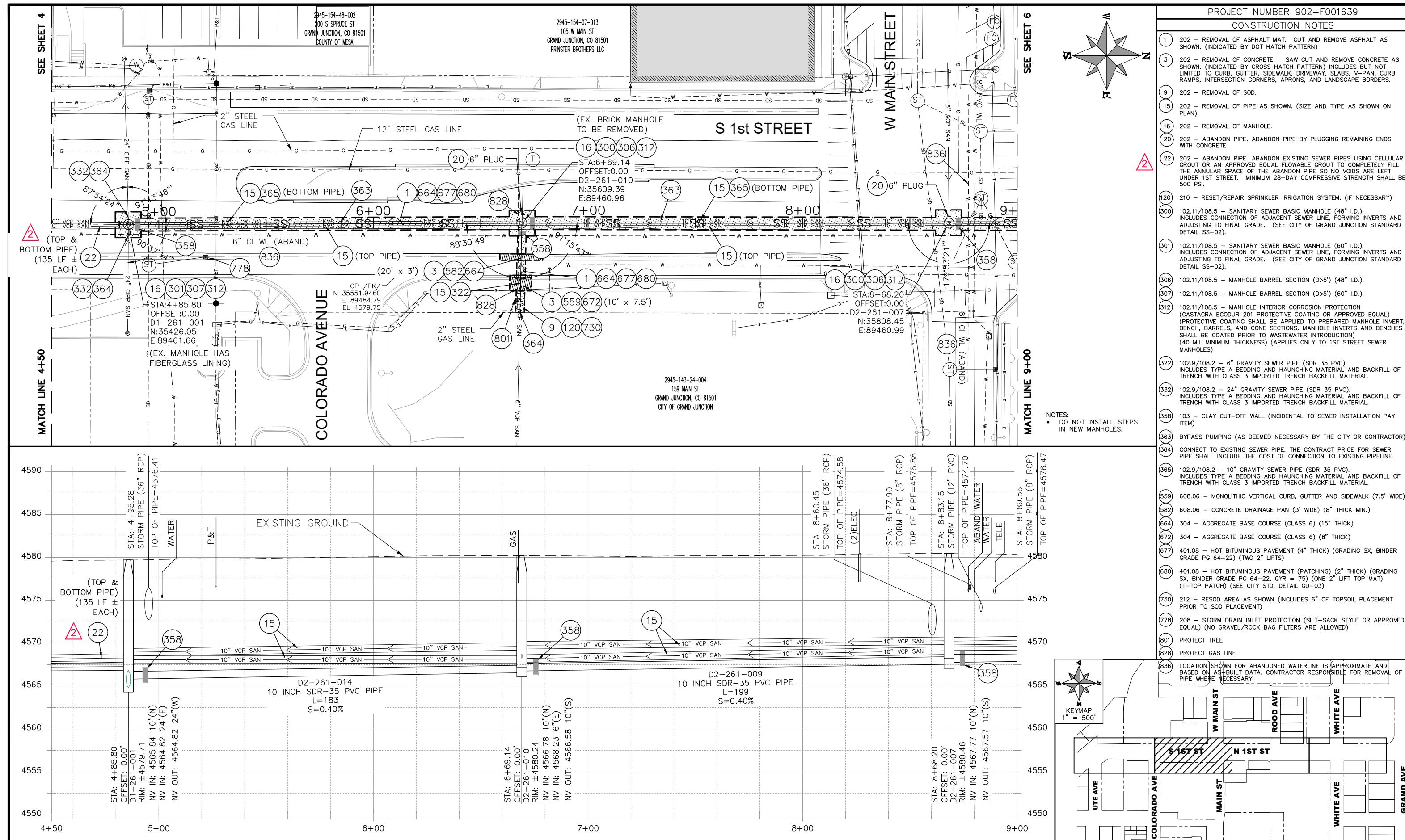
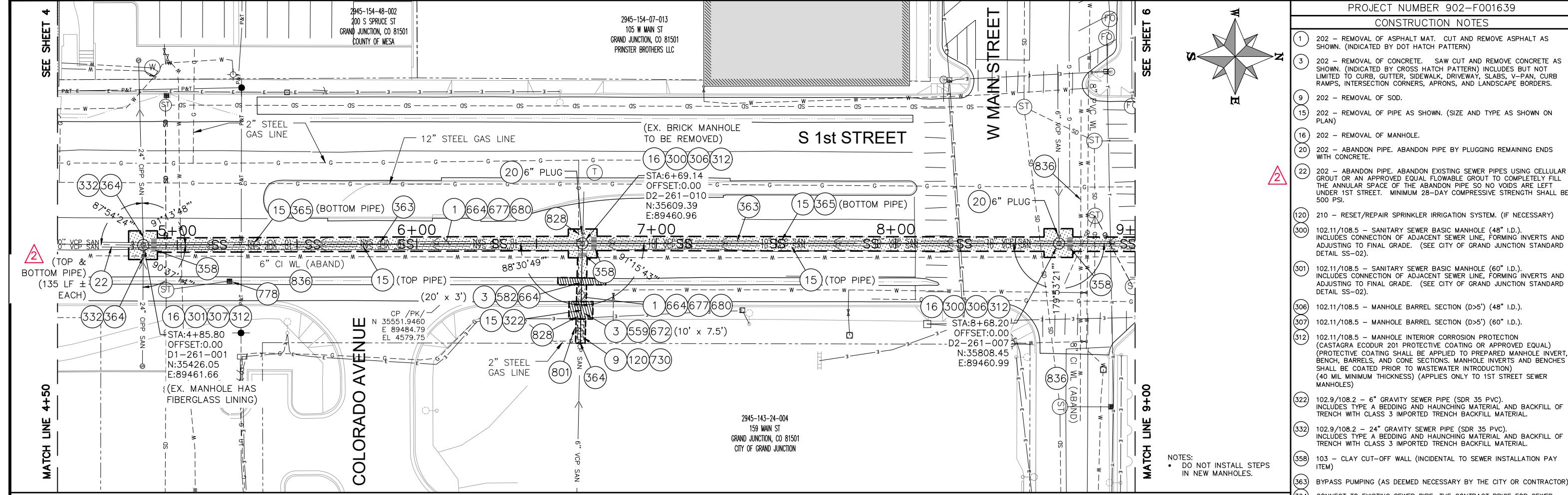
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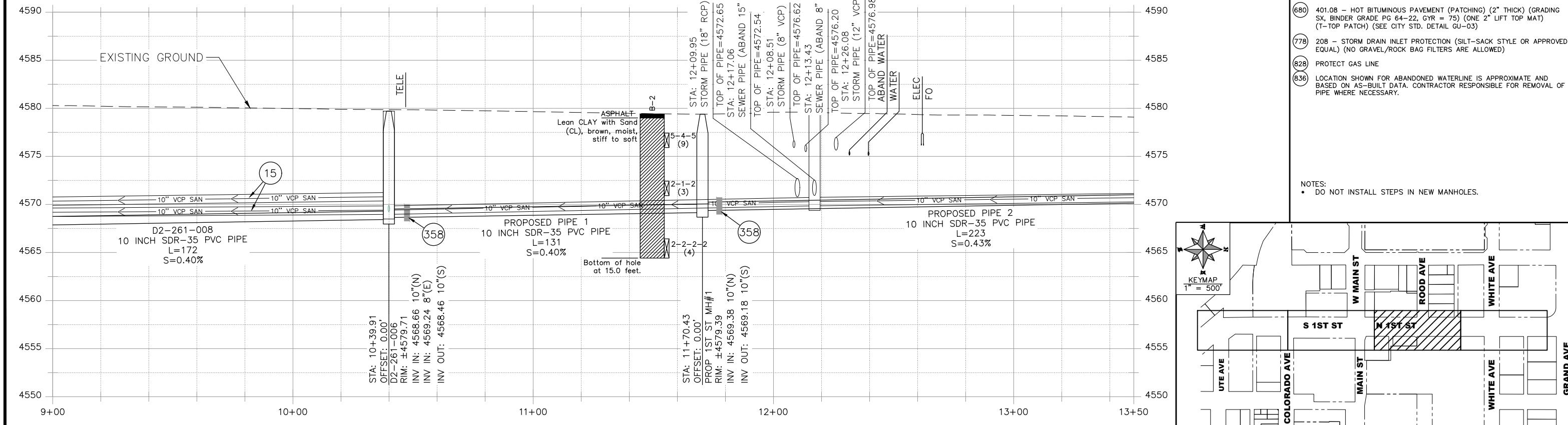
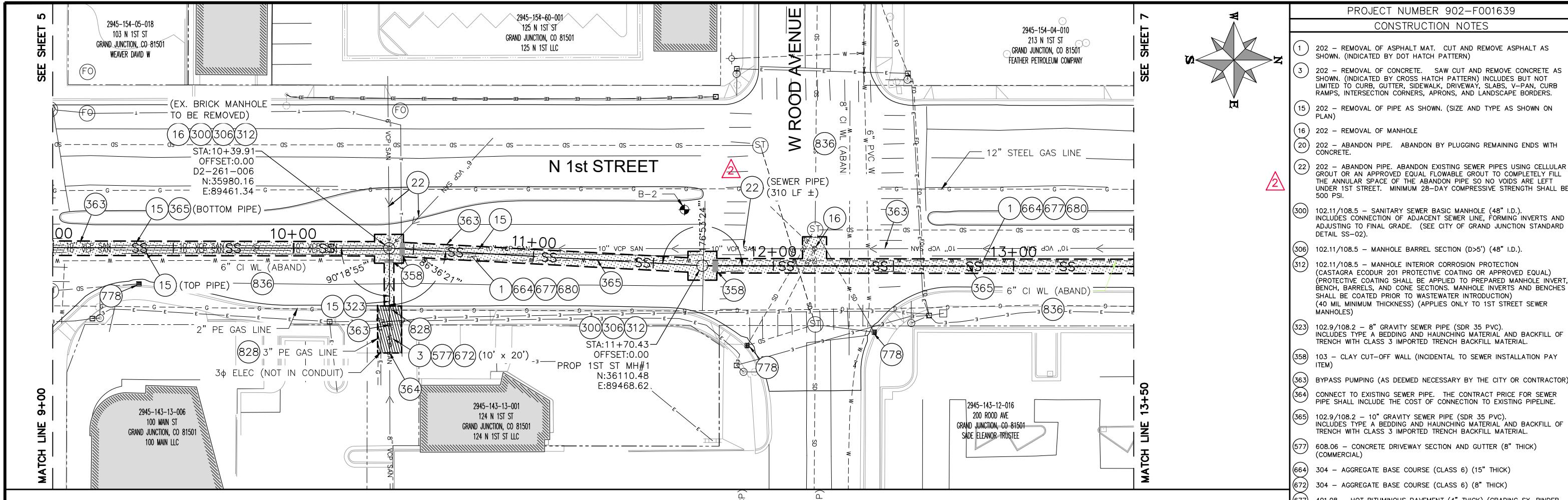
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 HORIZONTAL: 1" = 20'  
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 VERTICAL: 1" = 5'  
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**CITY OF Grand Junction**  
 COLORADO

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**2020 SEWER LINE REPLACEMENTS**  
**1st STREET SEWER PLAN & PROFILE**  
**STA. 0+00 TO 4+50**





DESCRIPTION	DATE
REVISION A ADDENDUM 2	8/26/2020
REVISION A	
REVISION A	

DRAWN BY	MF	DATE	07/2019
DESIGNED BY	ES	DATE	07/2019
CHECKED BY	ES	DATE	07/2019
APPROVED BY	BG	DATE	07/2019

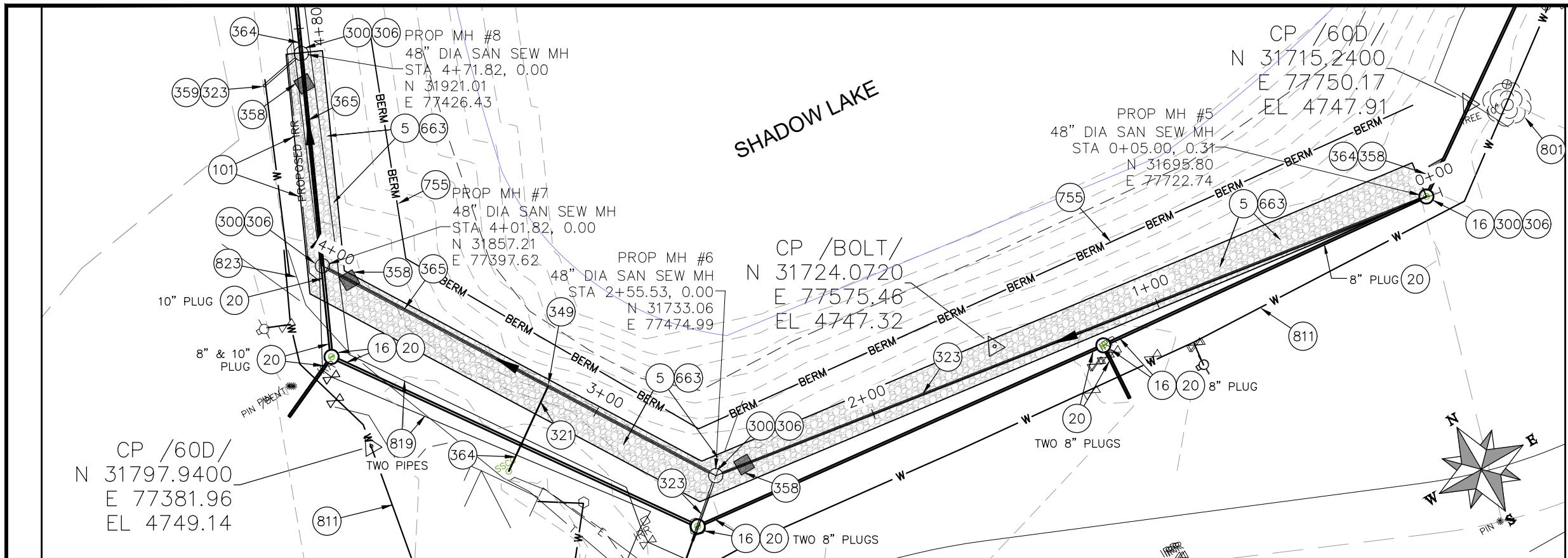
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**CITY OF Grand Junction**  
COLORADO

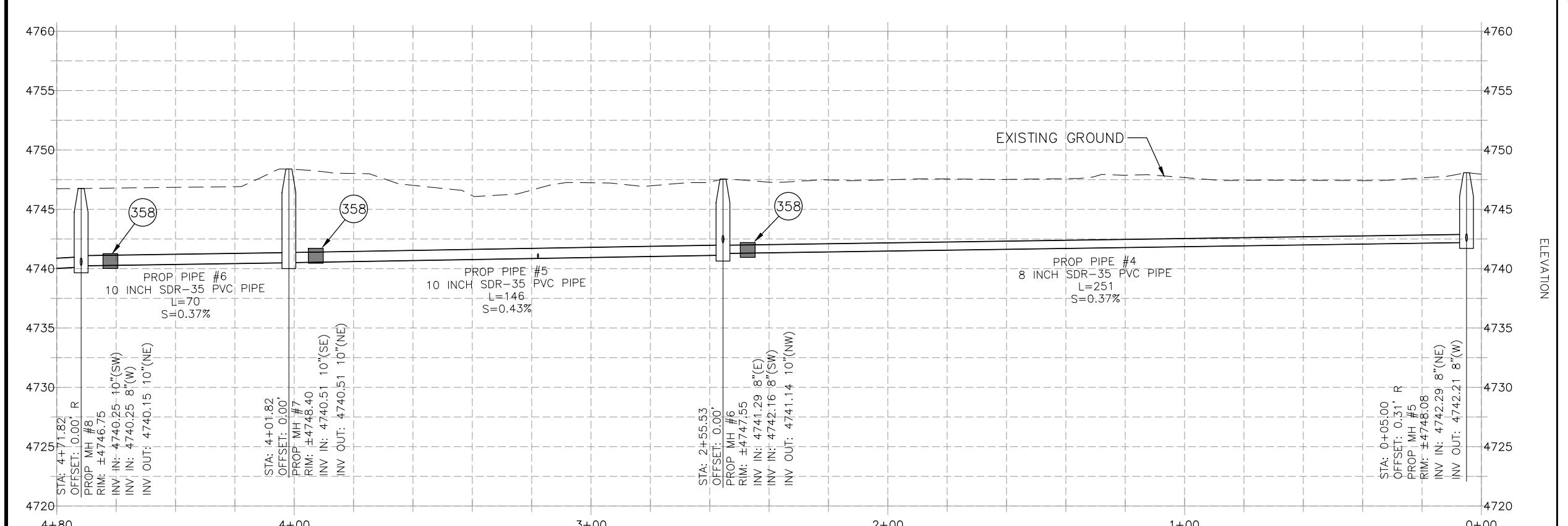
**PUBLIC WORKS**  
ENGINEERING DIVISION

**2020 SEWER LINE REPLACEMENTS**  
**1st STREET SEWER PLAN & PROFILE**  
STA. 9+00 TO 13+50

לעומת הכתובים במקרא, שפה זו לא הייתה בשימושם של יהודים.



PROJECT NO. 902-F001639	
CONSTRUCTION NOTES	
⑤	201 - CLEARING AND GRUBBING (INCLUDES TREE REMOVAL, BUSH REMOVAL, AND STRIPPING OF GRASSES)
⑯	202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
⑰	202 - REMOVAL OF MANHOLE
⑱	202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
⑲	210 - RESET IRRIGATION PIPE (SHADOW LAKE) (PVC IRRIGATION PIPE) (THE CITY BELIEVES THE EXISTING IRRIGATION PIPE IS 4-INCH DIA. PLASTIC PIPE. THIS PIPE BELIEVE TO HAVE BEEN LAYED ABOVE OR NEAR THE EXISTING SEWER LINE REQUIRING RELOCATION BETWEEN STATIONS 4+00 TO 4+75) (INCLUDES PIPE, FITTINGS, EQUIPMENT, MATERIALS, AND LABOR TO RELOCATE THE IRRIGATION PIPE FOR NEW SEWER PIPE INSTALLATION)
⑳	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).
㉑	102.11/108.5 - MANHOLE BARREL SECTION (D>5') (48" I.D.).
㉒	102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC), INCLUDES TYPE A BEDDING AND LAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
㉓	102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC), INCLUDES TYPE A BEDDING AND LAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
㉔	102.9/108.3 - 10" x 4" SEWER SERVICE TAP (FULL-BODY WYE) (SEE CITY STD. DETAIL SS-06)
㉕	103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
㉖	102.9/108.3 - 8" CAP (PVC) (GASKETED) (INCLUDES 4-FT LONG 4x4 WOOD PER CITY STD. DETAIL SS-06)
㉗	363 - BYPASS PUMPING (AS DEEMED NECESSARY BY THE CITY OR CONTRACTOR)
㉘	364 - CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE USING A MAX-ADAPTOR COUPLING OR ENGINEER APPROVED EQUAL.
㉙	102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC), INCLUDES TYPE A BEDDING AND LAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
㉚	304 - AGGREGATE BASE COURSE (CLASS 6) (4" THICK) (12' WIDE) (PATH)
㉛	208 - TEMPORARY COMPAKTED EARTH BERM
㉜	801 - PROTECT TREE
㉝	811 - PROTECT WATERLINE AND WATER VALVE
㉞	819 - PROTECT EX. IRRIGATION PIPE
㉟	823 - PROTECT TELEPHONE LINE
㉟	828 - PROTECT ELECTRIC LINE



DESCRIPTION	DATE
REVISION □ ADDENDUM 2	8/26/2020
REVISION □	
REVISION □	
REVISION □	

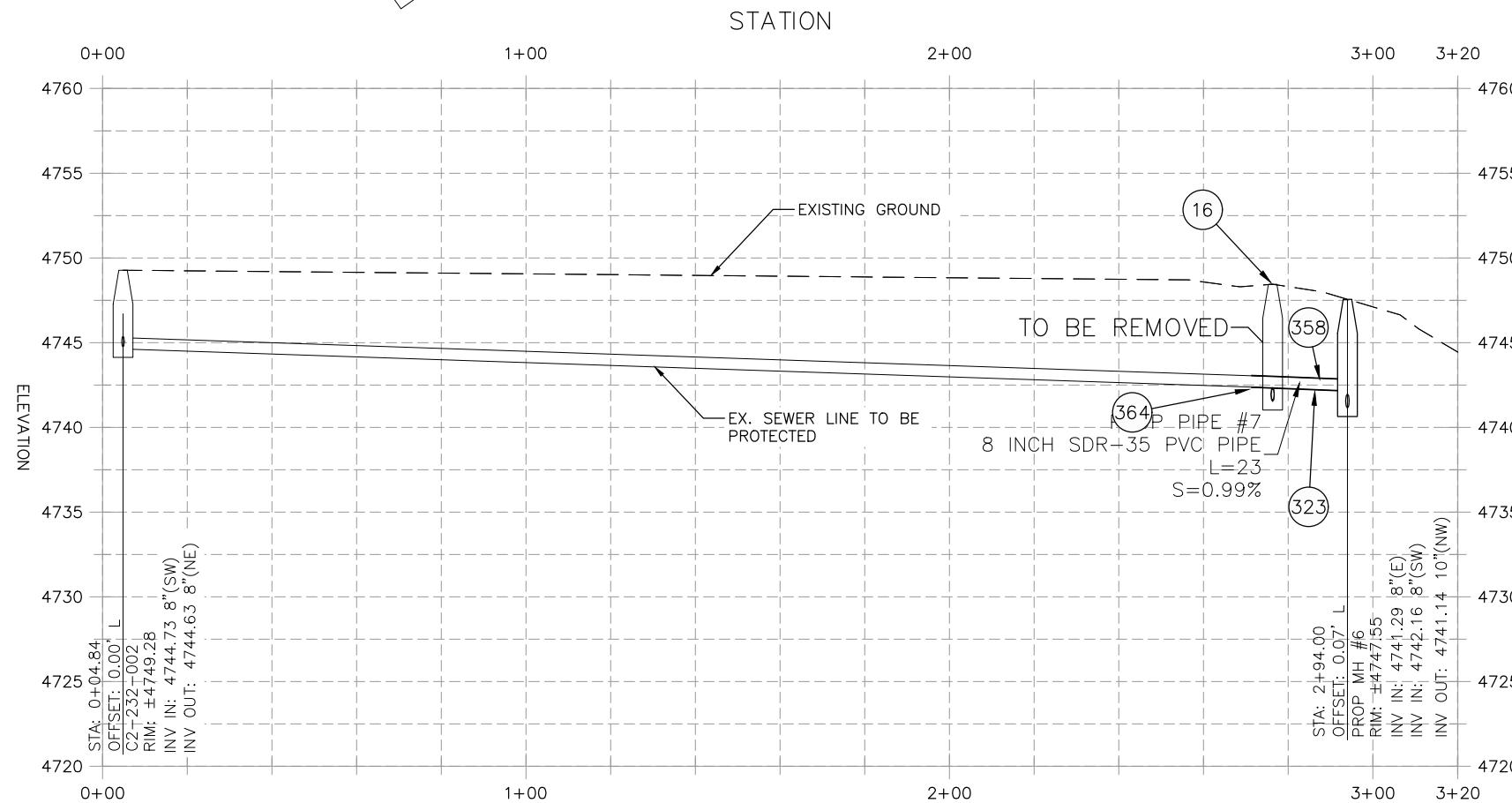
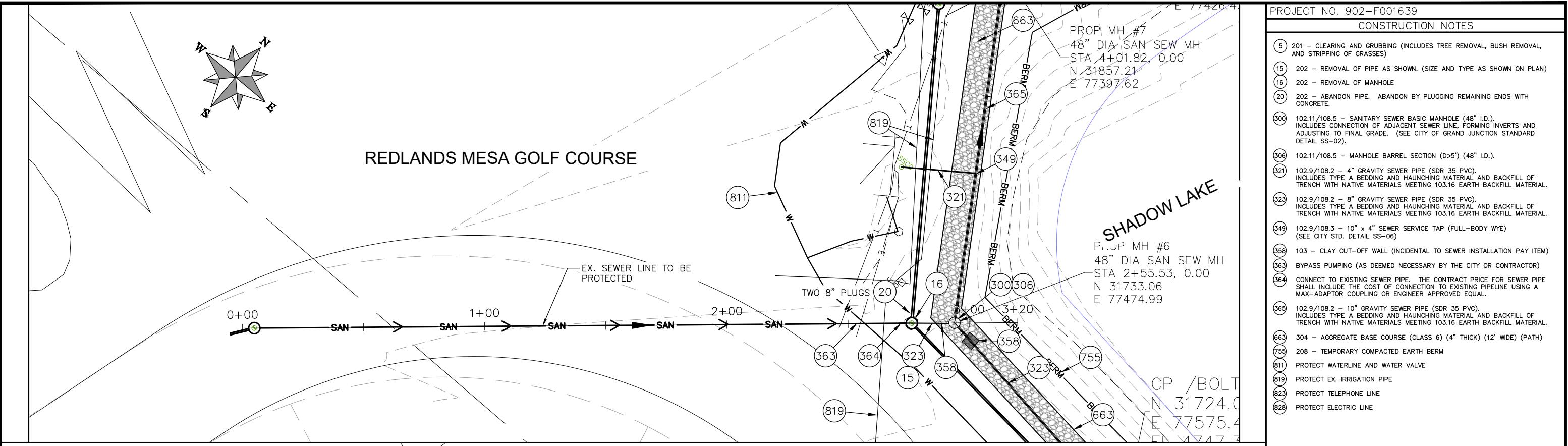
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DESIGNED BY KSO	DATE NOV, 2019
CHECKED BY ALC	DATE NOV, 2019
APPROVED BY	DATE

SCALES: PLAN & PROFILE  
HORIZONTAL: 1" = 40'  
0 10 20 40  
VERTICAL: 1" = 10'  
0 2.5 5 10

CITY OF  
**Grand Junction**  
COLORADO

PUBLIC WORKS  
ENGINEERING DIVISION

2020 SEWER LINE REPLACEMENTS  
SHADOW LAKE SEWER PLAN & PROFILE  
STA 0+00 TO 4+80



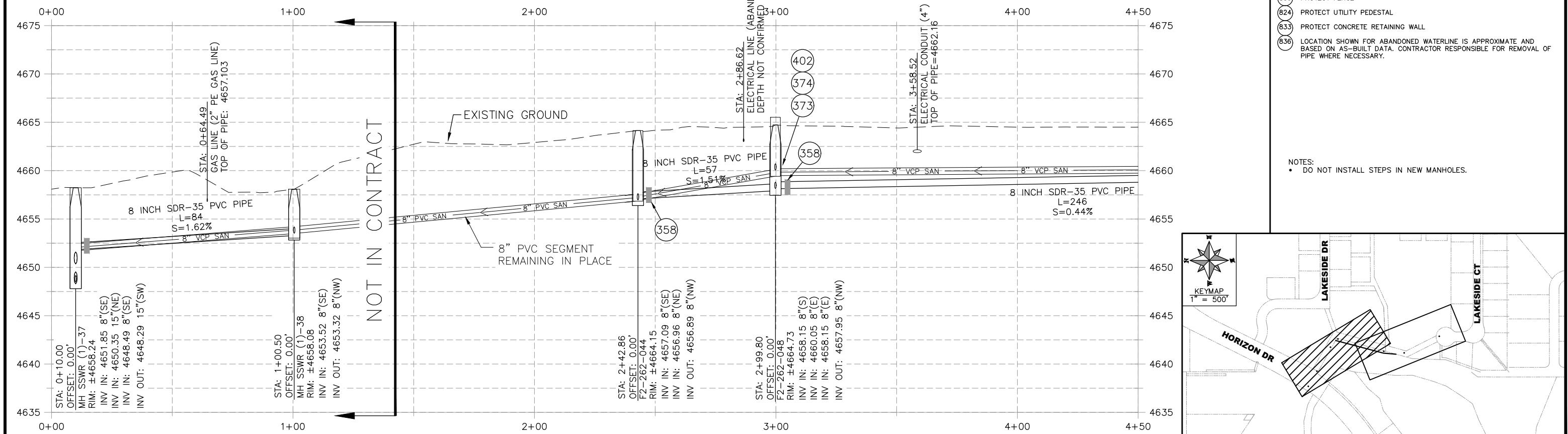
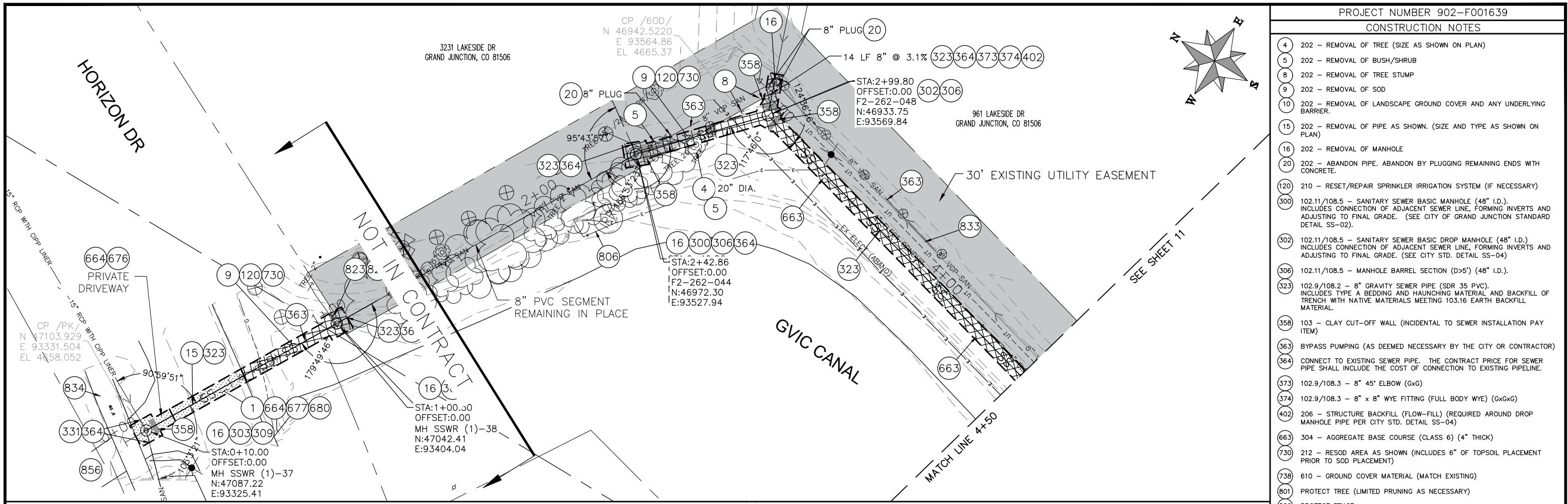
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REVISION △ ADDENDUM 2	8/26/2020
DESIGNED BY KSO	DATE DEC, 2019
CHECKED BY ALC	DATE DEC, 2019
APPROVED BY	DATE

SCALES: PLAN & PROFILE  
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VERTICAL: 1" = 10'  
0 2.5 5 10



PUBLIC WORKS  
ENGINEERING DIVISION

2020 SEWER LINE REPLACEMENTS  
SHADOW LAKE SEWER PLAN & PROFILE  
STA 0+00 TO 3+20



DESCRIPTION		DATE	PROJECT NO.	
REVISION △	-		DRAWN BY	HMC
REVISION △ ADDENDUM 2	-	8/26/2020	DESIGNED BY	ALC
REVISION △	-		CHECKED BY	ALC



PUBLIC WORKS  
ENGINEERING DIVISION

**2020 SEWER LINE REPLACEMENTS  
LAKESIDE SEWER PLAN & PROFILE  
STA 2+42 TO STA 4+50**

