RESOLUTION NO. 22-08

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF RIDGWAY, COLORADO, AMENDING THE TOWN OF RIDGWAY STANDARD SPECIFICATION AND TYPICAL DRAWINGS FOR INFRASTRUCTURE CONSTRUCTION

WHEREAS, the Town of Ridgway's set of engineering design standards is formally referred to as "Town of Ridgway Standard Specification and Typical Drawings for Infrastructure Construction"; and

WHEREAS, the Town Council adopted by Resolution No. 01-03 on April 11, 2001 the Town of Ridgway Standard Specifications, General Requirements and Typical Drawings for Infrastructure dated 1992 and updated in 1995; and

WHEREAS, subsequently the same was amended by Resolution No. 01-04 on July 11, 2001, by Resolution No. 06-03 on June 14, 2006, and again by Resolution No. 20-06 on June 10, 2020; and

WHEREAS, the Town Engineer has prepared changes and additions to said standard specification and typical drawings; and

WHEREAS, the purpose of these standards is to provide minimum standards to safeguard life, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, use, location, and maintenance of all public improvements and private improvements of common ownership including, but not limited to, sanitary sewer systems, water supply systems, storm drainage systems, wire utilities, streets, pedestrian facilities, open space, parking lots, and appurtenances thereto; and

WHEREAS, the purpose of these standards is also to ensure that the Town receives public facilities which are constructed with the care and materials such that the facility meets or exceeds the normal service life requirements for similar installations; and

WHEREAS, these standards are intended to ensure that when said facilities are transferred to the Town's ownership that they will be free from all defects and in suitable working order to provide the service capabilities anticipated with such a facility while protecting public and private interests.

NOW THEREFORE, BE IT RESOLVED by the Town Council of the Town of Ridgway, Colorado that the attached document, labeled as Exhibit A and titled "Town of Ridgway Standard Specification and Typical Drawings for Infrastructure Construction, Addendum #1 – September 14, 2022", shall be added to, and shall amend the Town of Ridgway Standard Specification and Typical Drawings for Infrastructure Construction dated June 2020.

ADOPTED AND APPROVED this _____ day of September, 2022.

ATTEST:

John Clark, Mayor

Pam Kraft, Town Clerk

TOWN OF RIDGWAY STANDARD SPECIFICATION AND TYPICAL DRAWINGS FOR INFRASTRUCTURE CONSTRUCTION

ADDENDUM #1 – SEPTEMBER 14, 2022

- TOC Page 1 Item #10. Correct the spelling of "Construction"
- TOC Page 1 Item #14. Add 14.06 Staking Requirements
- TOC Page 1 Item #14. Add 14.07 Removal of Abandoned infrastructure
- Division 1 Page 8 Sub-section 8.06, remove the "++" in the 7th line.
- Division 1 Page 10 Sub section 8.13, 4th line from top of the page, between pressure reducing station and etc. add "large meter installations".
- Division 1 Page 10 Sub-section 8.14. Add the following to the end of last sentence: "Including but not limited to providing dust control and maintenance of roads within and used for transport to the project."
- Division 1 Page 10 Sub-Section 9.02. Add the following at the end of this sub-section: "Horizontal control (coordinates, bearings and distances) shall be based on the Ouray County coordinate system and vertical control (elevations) shall use K-19 having an elevation of 6987.74 or K-19A with an elevation of 6989.74".
- Division 1 Page 10 Sub-Section 9.03, after the first sentence add the following sentence: "Plans shall be able to be printed on 11 x 17 paper at 50% scale and the minimum size of the text at 50% scale shall be 0.06".
- Division 1 Page 10 Sub-Section 9.03, add to the 4th to last sentence regarding sewer plans:
 "...and sewer lines shall be stationed from downstream end to the upstream end. The town will provide the numbering for the manholes".
- Division 1 Page 10 Sub-Section 9.03 add to the 3rd to last sentence regarding street plans: "Streets shall be stationed from south and west to north and east".
- Division 1 Page 10 Sub-Section 9.03 add to the end of the last sentence: "as shall all easements".
- Division 1 Page 13 Sub-Section 13.04. Testing Add a new sentence after the first sentence in this sub section that reads: "If testing will cause disruption in service to any users, Contractor shall provide notice to those whose service will be disrupted as required in Sub Section 15.02 of this section".
- Division 1 Page 13 Sub-Section 14.01- Add the following at the end of the sub-section: "Equipment and construction activities shall not begin before 7 am or work continue past 6 pm unless more stringent requirements are detailed elsewhere in the project documents."
- Division 1 Page 14 Add new Sub-Section 14.06 Staking Requirements that reads: "Basic surveying and control and stationing will be provided by licensed land surveyors retained by the Developer/Contractor. Basic control shall be set with stakes, spikes, shiners, or crosses set at the surface and on an offset from the proposed work. Benchmarks and offset stakes shall be provided within 50 feet of each valve, hydrant, control valves, service taps, manhole and all appurtenances, and for grade and offset stakes on the ground at least at 50 ft intervals and each change in angle or elevation which the Contractor shall use to confirm his location and elevation while installing the work. The Contractor shall transfer line and grade from these control points to the construction work in a manner approved by the Town, in order to allow for spot checks by the Town's representative. The preservation/restoration of stakes and other line and grade references is the responsibility of the Contractor."

- Division 1 Page 14 Add 14.07 Removal of Abandoned infrastructure that reads: "For all lines that are no longer in use and when new construction will replace existing infrastructure, unless otherwise approved by the Town for unusual cause, the abandoned infrastructure shall be removed."
- Division 1 Page 19 Record (as Built) Drawings and Operation and Maintenance Data, Sub Section 19.01. Revise the 3rd sentence to read: "Water service connections shall also include distance from the closest valve box and for sewer services the distance from the manhole and the depth from the sidewalk to the invert of the service and other appurtenances. Depths and elevations shall be recorded at each main line pipe station as well".
- Division 1 Page 19 Record (as Built) Drawings and Operation and Maintenance Data, Sub Section 19.01, C. Change the last sentence to read: "The vertical datum shall be based on K-19 with an equation to relate to NAVD88".
- Section 02200 Page 8 Sub section 307 A, Grade Stakes. Change the second sentence to read: "These stakes shall be locate the pipelines both horizontally and vertically for sewer and water and at least horizontally for all other infrastructure".
- Section 02712 Page 3 Sub section 8.02, Service Connections. Modify this paragraph to read: "8.02 Domestic water service lines and fire service lines shall be installed perpendicular to the main. Domestic water service lines shall typically be located 10 feet inside the uphill property line. When two service lines are not in separate trenches, the minimum separation between the two lines shall be 24" for lines up to ¾", 30" for lines up to 2" and for all other lines the separation shall be at least 3 feet. All taps larger than 2" shall be installed using a tee in the main. Tapping sleeves are not allowed. Any variance of this layout will require justification and approval of the Town. Meter cans shall be set in the public right of way at property line, or if the sidewalk is at property line either just inside the front utility easement, or just to the street side of the sidewalk. Service lines shall be stubbed across the property line through the width of the utility easement with the end sealed with a watertight seal and marked in foot increments full depth with a 2 x 4 painted blue and brought to grade and marked with the depth to the service line. Place a steel T post behind the 2 x 4 post to protect it."
- Section 02712 Page 2 Sub-section 7, Hydrants. Modify the paragraph to read:
- 7.01. Fire hydrants shall be placed at the intervals recommended by the State Insurance Services Office, generally, at one per block and where lots are not in blocks or in longer blocks at least at 500 foot intervals and such that hydrants are within 250 ft of property lot lines and habitable structures are entirely within 300 ft of hydrant. Hydrants shall also be located to facilitate flushing and draining even if that necessitates reducing the spacing. Hydrant leads shall be a minimum of six inches in diameter and run in a straight line from the tee in the main to the hydrant location. Leads shall serve only the hydrant and the line from the water main to the hydrant may not be tapped or connected to for other purposes. Auxiliary valves shall be installed on all hydrant leads in conformance with typical drawings. Fire hydrant bottom valve size shall be at least five inches. Nozzle size and threads shall be confirmed with the requirements of the Ridgway Fire District."
- Section 02712 Page 4 Sub section 11 Removal of Abandoned Infrastructure. Delete this section. It is now addressed in Division 1 sub section 14.07.
- Section 02713 Page 2 Sub section 2.01 and 2.02 Add: "All fittings shall be epoxy lined."
- Section 02713 Page 2 Sub section 2.04, Water Service Materials. Revise sub section 2.04 A through E to read:

"A. Corporation Valve: Corp valves shall be A.Y. McDonald #5182 brass, Mueller 300 ball corporation valve B25028N with AWWA IP thread inlet and Mueller 110 conductive compression outlet CTS OD tubing. Valves shall be AWWA C - 800 and NSF 61 certified.

B. Service Saddles: Service Saddles shall be Mueller BR2B bronze saddle with brass straps and O -Ring sealed outlet, sized for the pipe to which it will be connected with the correct tap size and thread. Saddles shall be AWWA C - 800 and be NSF 61 certified. Only this model will be allowed. C. Meter Setters: Meter setters shall be A.Y. McDonald 731-412-WDQQ44 ONLY, with compression brass connections, with ball valve shutoff and dual check valve. Meter setters shall be AWWA C - 800 and NSF 61 certified. Meter setters for 1-1/2" taps shall be Ford VBHH76-xxB-11-66-NL.

D. Water Service Backflow Preventor: Mueller M - 98 Angle Dual check valve or can be incorporated into meter setter.

E. Meter Can: Meter cans shall be Bingham Taylor MMP 24" diameter Carson Oldcastle 24" diameter insulated can with white interior. The Town may also consider Sigma 20 x48" that tapers when acceptable 24" diameter cans are not available.

- Section 02713 Page 3 Sub Section 2.05 Gate Valves. Modify the text for Acceptable Models to read: "Mueller is accepted (Only this product will be accepted by the Town unless developer can demonstrate very extenuating circumstances. In the event an extenuating circumstance is proven and accepted by the Town, a valve in the M&H / Kennedy family meeting or exceeding the quality and serviceability of the Mueller may be authorized by the Town.
- Section 02713 Page 4 Sub section 2.09. Change Acceptable Model to "Super" (not Modern) Centurion.
- Section 02713 Page 5 Add Sub sections 2.20 to read as follows:
 "2.20 Casing Pipe Casing pipe shall be at least 120 psi or SDR 41 PVC pipe. Note that concrete encasement is prohibited."
- Section 02713 Page 7 Sub Section 3.04. Change space for staking to 50' to match sub section 14.06 of the General Requirements.
- Section 02713 Page 9 Modify first full paragraph to read: "Tracer wire shall be fastened to all pipes at no less than 5' intervals and shall be fastened to and be looped up to the surface at all valves, hydrant, and other metallic structures along the line. Tracer wire shall be 10 gauge. Marking tape at least 6" wide labeled "water" shall be placed 12" above pipes of all materials. At the completion of segment of pipe installation and backfill, the electrical continuity shall be tested and confirmed. Continuity shall be demonstrated to the Town prior to acceptance of the work".
- Section 02733 Page 1 Sub section 3.06 of Manhole Spacing and Design. At the end of that sub section add the following: "Where pipes of different size come into or exit a manhole, the tops of the pipes shall be at the same elevation so that the smaller pipe is not subject to submergence from the larger pipe".
- Section 02733 Page 6 Sub-section 3.04. Change the staking distances to 50 ft to match sub section 14.06 of the General Requirements.
- Replace the current Seep Line Cleanout detail for the one attached correcting the wrong title on the detail and add note about location.
- Replace the current ³/₄" 1" meter typical drawing with the one attached which adds a curb stop outside the meter can to the detail.
- Replace the current 1-1/2" 2" meter typical drawing with the one attached which adds a base to the manhole and shows an eccentric rather concentric manhole shape.
- Replace the current manhole typical drawing with the one attached which adds a base to the manhole and shows an eccentric rather concentric manhole shape.

- Typical Drawings, Encasement Detail, Add Note 5 to read: "Concrete encasements are prohibited except where expressly authorized in writing by the Town.
- Replace the current road layout detail with the one attached which updates the road details as noted on the detail to better reflect current desires for more on street parking.
- Typical Drawings, Typ road section Detail. Add a note to require 6" of class 6 under the gutter pan and that gutter pan width is 3' on local residential streets and 4' on collector and commercial streets.
- Typical Drawings, Curb, Gutter Sidewalk Detail. Add a note to require 6" of class 6 under all concrete and a note that clarifies that all concrete shall be CDOT Class D.









