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November 23, 2022

Cole Bedford, P.E.
Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, CO 80203
cole.bedford@state.co.us

**Re: Final Report for the City of Ouray, Colorado - Raw Water Supply Pipeline Project:
Phase 1 (Grant Number: POGG1, PDAA, 202000003211)**

Dear Cole,

The City of Ouray, Colorado (City) is pleased to provide the Colorado Water Conservation Board (CWCBC) with this final report documenting completion of the Raw Water Supply Pipeline Project: Phase 1 (the Project) in accordance with the CWCBC grant reporting requirements. The CWCBC awarded the City of Ouray funding for this Project on June 17, 2020. This grant expires on July 1, 2023.

Summary of Water Activity Project

The Project assessed the feasibility and costs for constructing a non-potable raw water supply pipeline intended to:

- Reconnect an existing decreed point of diversion to add additional water supply for the City's current and future potable and non-potable water demands.
- Provide a second raw water transmission pipeline to provide water transmission system redundancy.
- Reestablish the use of an existing pre-compact water right owned by the City of Ouray.

Weehawken Spring is currently the City's primary municipal water supply source. Due to drought conditions in 2018, the City experienced shortages in Weehawken Spring water production during the winter of 2018/2019. The City's full build out municipal demands are expected to exceed the Weehawken Spring production rates in the future based on growth projections. In response to the drought, the City has implemented several water efficiency measures outlined in the City of Ouray Water Efficiency Plan and completed this Project to assess the feasibility of developing an additional water supply to meet both current non-potable

and future potable and non-potable water demands. The Project identified Weehawken Creek as a feasible source of additional raw water supply to the City.

Obstacles Encountered and Overcome

During development of the Project Loan Feasibility Study, the City's Weehawken Spring water supply was reclassified as a Groundwater Under the Direct Influence of Surface Water (GWUDI). As a result, the City is in the process of designing and will construct a drinking water treatment plant that can treat water from both Weehawken Spring and Weehawken Creek. As a result, all the Project Alternatives explored as part of the Loan Feasibility Study shifted to include considerations for a future drinking water treatment plant.

Proposed Budget vs. Actual Budget

The total proposed project budget was \$102,000, which includes \$10,000 of in-kind participation from City of Ouray staff. Included in the total funding for this project was \$66,300 awarded from CWCB Grant Number: POGG1, 2020-3211), and \$25,700 in cash match and \$10,000 of in-kind participation from the City of Ouray. The actual Project budget used was approximately \$102,000.

Confirmation of Match Commitments

The City of Ouray confirms that all match commitments were made and are accounted for.

Project Documentation

The primary focus of the Project was development of a CWCB Loan Feasibility Study. A copy of the final Project Loan Feasibility Study is included as Attachment A. The CWCB deliverables listed in the Project grant award letter dated June 18, 2020, include (Task 1), a non-potable water supply conceptual design and system evaluation and (Task 2) preparation of a loan feasibility study. A draft of the Task 1 and Task 2 deliverables were reviewed by the City on October 12, 2021 and sent to the CWCB for review on December 17, 2021. Comments received from the CWCB were incorporated into the deliverables and a Final Loan Feasibility Study is attached.

The following summarizes the review process that occurred during the development of the Project deliverables:

- Regular project stakeholder meetings were held to review proposed project alternatives and ultimately guide the selection of the Preferred Project Alternative. Project stakeholders included the City of Ouray Public Works Department and Ouray Ice Park, Inc.
- Drafts of the conceptual design drawings and the Loan Feasibility Study were provided to City of Ouray Public Works staff and CWCB's Matt Stearns, P.E., for review and comment. All comments received were incorporated into the Final Loan Feasibility Study. Please note Appendix A in the attached Loan Feasibility Study includes the conceptual design plans for the Project.

Thank you for your consideration of this final report, please let us know if you need any additional information or documentation.

Sincerely,

By

A handwritten signature in black ink, appearing to read 'SC', with a horizontal line extending to the right.

Silas Clarke
City of Ouray Administrator

Attachments:

Attachment A. The City of Ouray, Raw Water Supply Pipeline Project – CWCB Loan
Feasibility Study

CITY OF OURAY, COLORADO RAW WATER SUPPLY PIPELINE PROJECT LOAN FEASIBILITY STUDY



Prepared for:
City of Ouray, CO



Wright Water Engineers, Inc.

November 2022

051-036.141

CITY OF OURAY COLORADO

RAW WATER SUPPLY PIPELINE PROJECT

LOAN FEASIBILITY STUDY

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TABLE OF ACRONYMS USED IN THIS REPORT

Acronym	Term
AF	Acre Feet
APOD	Alternate point of diversion
Cfs	Cubic Feet per Second
CDPHE	Colorado Department of Public Health and Environment
CDWR	Colorado Division of Water Resources
CIP	Capital Improvement Plan
CWA	Clean Water Act
CWCB	Colorado Water Conservation Board
CWP	Colorado Water Plan
DOLA	Department of Local Affairs
EA	Environmental Assessment
EQR	Equivalent Residential Unit
FWS	United States Fish and Wildlife Service
GPD	Gallons-Per-Day
GWUDI	Groundwater Under the Direct Influence of Surface Water
ISF	Instream Flow
MGD	Million-Gallons-Per-Day
NWP	Nationwide Permit
NEPA	National Environmental Policy Act
OAHP	Office of Archaeology and Historic Preservation
PCN	Preconstruction Notification
OIPI	Ouray Ice Park, Inc.
POD	Point of Diversion
SBR	Southwestern Basin Roundtable
SFHA	Special Flood Hazard Area
SUP	Special Use Permit
SWCD	Southwestern Water Conservation District
TABOR	Taxpayer Bill of Rights
TNC	The Nature Conservancy
USACE	United States Army Corps of Engineers
USBR	United States Bureau of Reclamation
USFS	United States Forest Service
WEP	Water Efficiency Plan
WSRA	Water Supply Reserve Account
WWE	Wright Water Engineers, Inc.

CITY OF OURAY COLORADO – RAW WATER SUPPLY PIPELINE PROJECT – LOAN FEASIBILITY STUDY

EXECUTIVE SUMMARY

The City of Ouray (City) is a municipality located in Ouray County in southwest Colorado (see Figure 1). The City potable water supply source is located roughly 2.5 miles upstream on tributaries of Canyon Creek and consists of two distinct decreed sources of water; Weehawken* Springs and Weehawken Creek. Weehawken Spring until recently was classified as a ground water source and is currently the sole potable water supply for the City. As a classified groundwater source, water from Weehawken Spring historically only required disinfection for treatment under the Groundwater Treatment Rule. In 2021 Weehawken Spring was reclassified as a Ground Water under the Influence of Surface Water (GUIDI) source and the City is in the process of designing and constructing a surface water treatment facility.

Water from Weehawken Spring is delivered by a 12,800-linear foot pipeline to the City via a pipeline along Canyon Creek (Weehawken Spring Pipeline) originally constructed prior to 1891 and was most recently reconstructed in 1980 (see Figure 2). Weehawken Spring currently serves the City's 1,047 residents, the Ouray Ice Park, a hydropower plant, irrigation of parks, and water for hot spring pool maintenance, filling, and cooling, Bachelor Switch Water User Association, and the Mineral Farms subdivision.

Weehawken Creek is also a decreed source for municipal water supply and is classified as a surface water source. Weehawken Creek was historically connected to the Weehawken Spring Pipeline, however likely due to the Safe Drinking Water Act, was disconnected from the Weehawken Spring Pipeline because Weehawken Creek is a surface water source, and the City of Ouray does not have a surface water treatment facility.

Due to drought conditions in 2018, the City experienced shortages in Weehawken Spring water production during the Winter of 2018/2019. The City's full build out municipal demands are expected to exceed the Weehawken Spring production rates in the future based on growth projections. In response to the drought, the City has implemented several water efficiency measures outlined in the City of Ouray Water Efficiency Plan and started an evaluation of developing an additional water supply to meet both current non-potable and future potable and non-potable water demands.

The purpose of the City of Ouray Raw Water Supply Pipeline Project (the Project) is to:

- 1) Reconnect an existing decreed point of diversion (Weehawken Creek) to add additional water supply for the Cities current and future potable and non-potable water demands.

*The Colorado state court decrees for the City's water rights spell the name of this spring and creek as "Wehawken," but for purposes of this report the authors are using the spelling "Weehawken" to conform to the standard spelling in USGS and USFS maps and in common usage.

- 2) Provide a second raw water transmission pipeline to provide water transmission system redundancy.
- 3) Reestablish the use of an existing pre-compact water right owned by the City of Ouray.

The Project sponsor is the City of Ouray, and the Project stakeholders include Ouray Ice Park Inc. (OIPI), and the Colorado Water Conservation Board (CWCB). Water Engineers, Inc. (WWE) prepared this feasibility study on behalf of the City and OIPI.

As discussed above, during development of this Loan Feasibility Study, the City's Weehawken Spring water supply was reclassified as a Groundwater Under the Direct Influence of Surface Water (GWUDI). As a result, the City is in the process of designing and will eventually construct a drinking water treatment plant that can treat water from both Weehawken Spring and Weehawken Creek. As a result, all the Project Alternatives explored as part of this Loan Feasibility Study include considerations for a future drinking water treatment plant. Funding for the water treatment facility is not a part of this feasibility study or CWCB funding request.

The next phase of the Project, which includes engineering design, environmental services, bidding, and construction of the Project, is estimated to cost approximately \$1,500,000. The City intends to seek grant funding for 50 percent of the total Project Cost through CWCB or other grant funding agencies.

The City is currently working on Water and Wastewater Capital Improvement Project Plan that will incorporate the Raw Water Supply Pipeline Project into their longer-term capital project planning. At this time, the City anticipates the Raw Water Supply Pipeline Project could occur in or around 2026. Per CWCB recommendations, the City should begin the process of applying for the loan approximately 6-months prior to the desired start date of the Project. CWCB Staff member Matthew Stearns reviewed and commented on this Loan Feasibility Study in May 2022 and was updated to incorporate CWCB comments. Once the City elects to move forward with the Project, the City intends to formally submit this Loan Feasibility Study and an associated CWCB Loan Application for the Project.

The City is currently anticipating requesting a CWCB loan of \$750,000 to cover the other 50 percent of the Project Costs. The purpose of this Feasibility Study is to support the City's loan request.

This Feasibility Study outlines three Project alternatives plus a no-action alternative:

- Alternative No. 1: No-Action
- Alternative No. 2: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Southeast Pipeline Alignment.
- Preferred Alternative No. 3: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Camp Bird Road (CR 361) Alignment.

- Alternative No 4: Single Pipeline Alternative – Construct Weehawken Creek Pipeline and Slipline the Existing Canyon Creek Pipeline.

The preferred Project alternative selected is Alternative No. 3 (Preferred Alternative). The Preferred Alternative meets the primary project objectives, including providing a near-term non-potable water supply for the City, provides municipal water supply transmission pipeline redundancy, provides the City with a physical source of additional raw water municipal supply in the future, and minimizes impacts to the environmental landscape when compared to the other alternatives.

The general components for the Preferred Alternative are as follows:

- Installation of a new surface water diversion structure on Weehawken Creek at the City's decreed point of diversion for the Weehawken Creek water right.
- Installation of approximately 1,100 feet of new 10-inch diameter HDPE pipeline between the Weehawken Creek surface water diversion structure and the location where the City's existing pipeline meets Camp Bird Road.
- Installation of approximately 7,500 feet of new 10-inch diameter HDPE pipeline between the location where the City's existing pipeline meets Camp Bird Road and the Mineral Farms Pumphouse. This new pipeline will connect to the City's more recently constructed 10-inch diameter HDPE pipeline and will become the City's primary water supply pipeline.
- Installation of approximately 260 feet of new 10-inch diameter HDPE emergency interconnect pipeline to provide the City with a redundant water supply pipeline system in the event there are issues with either pipeline.

The Project is feasible from a technical, legal, environmental, and cultural resource perspective. Both the Weehawken Spring and Weehawken Creek diversion structures and the existing municipal pipeline are covered under an existing Special Use Permit. Discussions with the USFS indicate the pipeline can be permitted via amendments to the City's existing USFS Special Use Permit (SUP) or a new SUP. The SUP may require: a Categorical Exclusion Checklist (CEC) or an Environmental Assessment (EA). Based on discussions with the USFS and review of habitat information there are no known environmental or cultural resource issues to prevent construction of the Preferred Alternative.

The City's municipal water supply and transmission system was initially constructed in the 1880s, and the City asserts that it has vested pre-USFS and pre-Federal Land Policy and Management Act (FLPMA) easement and right of way interests under the 1866 Act and other authorities. Nothing in this Report or underlying analysis is intended or shall be construed to abandon or diminish the City's vested pre-FLPMA easements or right of way claims.

Based on Discussions with the Army Corps of Engineers the project would likely be permitted through the Nationwide Permit (NWP) System and covered under NWP No. 7 – Outfall Structures and Associated Intake Structures, or NWP No. 58 – Utility Line Activities for Water and Other Substances, or both.

The financial feasibility of the Project is based on \$750,000 in grants and a \$750,000 CWCB loan. Based on the results of this Feasibility Study, the City would like to move forward with getting approval for the loan while the City's ongoing Capital Improvement Plan is finalized, which will be used to help guide water rates that can adequately cover loan repayment. WWE's opinion of probable final engineering design, bidding services, construction observation and construction costs for the Preferred Alternative is approximately \$1,500,000. The cost opinion for the construction is based on a 30 percent design level as per CWCB guidelines and includes a 30 percent contingency. Please note that unforeseen issues during final design, environmental, or construction may change the overall cost of the Project.

1.0 PROJECT BACKGROUND AND PURPOSE

The City of Ouray (City) is a municipality located in Ouray County in southwest Colorado (see Figure 1). The City currently relies exclusively on Weehawken Spring to supply its potable water system. Water from Weehawken Spring is delivered to the City via approximately 12,800 linear feet of pipeline (Canyon Creek Pipeline). The Canyon Creek Pipeline was originally constructed prior to 1891 and was most recently reconstructed in 1980. Weehawken Spring currently serves the City's 1,047 residents (762 taps), the Ouray Ice Park, a hydropower plant, irrigation of parks, and water for hot spring pool maintenance, filling, and cooling, Bachelor Switch Water User Association, and the Mineral Farms subdivision.

Due to drought conditions in 2018, the City experienced shortages in Weehawken Spring water production during the Winter of 2018/2019. The City's current peak day demands are approximately 1.25 million-gallons-per-day (MGD), and future full buildout demands are currently estimated at approximately 1.5 MGD. The City's full build out municipal demands are expected to exceed the average Weehawken Spring production rates in the future based on growth projections. During the winter, when the Weehawken Spring production is low, the City has difficulty meeting municipal demands. As a result, the City implemented water conservation measures and reduced water deliveries to the City of Ouray Ice Park (Ice Park) and hydropower facilities during periods of low spring production. In response to the drought, the City has implemented several water efficiency measures outlined in the City of Ouray Water Efficiency Plan and started an evaluation of developing an additional water supply for both potable and non-potable water uses.

1.1 Study Area Description

The study area encompasses the City's existing and historical water supply transmission system. The City's existing system begins at Weehawken Spring located off Camp Bird Road (Ouray CR 361) and on the east side of Canyon Creek, approximately 2.5 miles from the City in an alpine ecosystem (see Figure 2). Weehawken Spring currently delivers water to a buried pipeline that crosses under Canyon Creek and Weehawken Creek, eventually meeting up with Camp Bird Road, crosses under Canyon Creek again, and then continues south until it terminates at two 500,000-gallon storage tanks.

The City's historical water supply included both Weehawken Spring and Weehawken Creek. The City historically diverted water from Weehawken Creek approximately 830 feet upstream of where Thistledown Bridge crosses Weehawken Creek (see Figure 2). The Weehawken Creek diversion

structure historically diverted surface water from Weehawken Creek into a pipeline that traversed the south side of Weehawken Creek and eventually connected to the Weehawken Spring pipeline just downstream of where the Weehawken Spring Pipeline first crosses Canyon Creek.

The City discontinued use of the Weehawken Creek Diversion and has relied solely on Weehawken Springs as a water source. Historically, Weehawken Spring was classified as a groundwater source by the Colorado Department of Public Health Environment (CDPHE). Since Weehawken Spring was considered a groundwater source, the City was only required to use disinfection (chlorine) for treatment. In 2021, CDPHE reclassified Weehawken Spring as a GWUDI. During the City’s GWUDI evaluation, leakage in the Weehawken Creek Pipeline was identified as a potential source of contamination. The City is currently in the process of designing and constructing a surface water treatment facility. With the construction of a surface water treatment facility, the City can reconnect and treat Weehawken Creek surface water source. Funding for the water treatment facility is not a part of this feasibility study or CWCB funding request.

1.2 Previous and Ongoing Studies

- **City of Ouray Water Efficiency Plan:** In 2016 the City completed and adopted a CWCB Water Efficiency Plan (WEP) and updated the WEP in 2019. The primary goal of the City’s WEP is to provide data to the City on system operations, to reduce system losses, to develop estimates of the avoided costs because of increased efficiencies, and to increase public awareness and support for the efficiency activities. Between 2016 and 2020 the City’s municipal water use dropped significantly and is attributable to the City acting on its WEP. Actions taken by the City included leak detection and repair, and a public awareness campaign.
- **City of Ouray Water and Wastewater Capital Improvement Projects Plan:** In January of 2021, the City was awarded a Colorado Department of Local Affairs (DOLA) planning grant to support development of a Phase 1 Water and Wastewater Capital Improvement Projects (CIP) Plan. As part of this Phase 1 CIP Plan, the City is developing an understanding of impacts to City water and wastewater rates in order to maintain current operations and maintenance programs and fund future CIP’s, including the subject project of this Loan Feasibility Study.

2.0 PROJECT SPONSOR

The City of Ouray is a municipality located in Ouray County in southwest Colorado (see Figure 1). The City Council is responsible for the administration of the City. The City is over 125 years old with a rich mining history dating back to the 1800’s. In the 1870’s and 1880’s Ouray experienced a peak in silver mining activity until the 1893 crash in the price of silver caused many of the mines to close. While mining is still active in the area, tourism began to rise in the mid-20th century and is now the base of the City’s local economy. The City is situated in a canyon with steep topography that physically limits its urban growth boundary.

According to the Colorado Department of Local Affairs (DOLA) the City’s population in 2019 was approximately 1,047. The City provides basic services to its residents including water, sewer,

trash, recycling, and recreation including the Ouray Ice Park and Ouray Hot Springs Pool as well as code enforcement, permitting, and hosts various community events.

3.0 WATER SUPPLY

3.1 Water Rights – Legal Water Supply

The City of Ouray’s legal raw water supply consists of water rights owned by the City and are summarized in Table 1. The water rights listed in Table 1 are limited to those owned by the City that are suitable for use as a municipal raw water supply. Each water right’s Decreed Point of Diversion (POD) is shown on Figure 3. The City’s most senior water right on Oak Creek is decreed for 5.2 cfs and can be diverted at two alternate point of diversion’s (APOD’s); Weehawken Spring and Weehawken Creek. In addition to the 5.2 cfs APOD from Oak Creek, both the Weehawken Creek and Weehawken Spring water rights are individually decreed for 3.816 cfs (see Table 1). The Oak Creek, Weehawken Creek and Weehawken Spring Water rights are all pre-compact water rights and a very senior water rights and a augmented structures under the City’s augmentation plan decreed in Case No. 13CW3072.

3.2 Physical Water Availability

3.2.1 Weehawken Spring

The City currently uses Weehawken Spring as its primary supply to the potable water system. The City continuously monitors Weehawken Spring production via an inline flow meter located on the pipeline prior to entering the City’s water storage tanks. Table 2 provides a summary of the average Weehawken Spring production by month and during selected dry years.

As shown in Table 2 average Weehawken Spring average spring production (1995-2020) varies seasonally between approximately 3.9 cfs in June and approximately 1.3 cfs in January. Following the 2018 drought, spring production in water year 2019 was down to approximately 3.1 cfs in June and less than 1 cfs in February.

3.2.2 Weehawken Creek

Seasonal estimates for the physical water availability at Weehawken Creek are based on an area-weighted stream gage analysis of USGS Station #09146020 Uncompahgre River Near Ouray CO (URNOC Gage) between 2001 and 2019. Estimated average monthly flows in Weehawken Creek are calculated by multiplying the flow recorded at the URNOC Gage by the ratio of the Weehawken Creek Drainage Area (2,251 acres) and URNOC Gage contributing drainage area (48,110 acres) (basin area ratio = 4.86%).

To check the reasonableness of the area-weighted stream gage analysis, WWE staff collected a hand measured flow rate in Weehawken Creek of 1.6 cfs on October 24, 2020. The area-weighted stream gage analysis resulted in an estimate of 0.9 cfs on this same day. This suggests the area-weighted stream gage analysis is likely conservative.

As shown in Table 2, average Weehawken Creek flows vary seasonally between approximately 23 cfs in June and approximately 1.2 cfs in January and February. During dry year 2002, WWE estimates that average Weehawken Creek flows were a maximum of approximately 8.4 cfs in May and less than 1 cfs in January and February.

4.0 WATER DEMANDS

The City provides water to customers with potable and non-potable water needs within its service area. The following sections provide a summary of the City's potable and non-potable water demands.

4.1 Existing and Future Potable Water Demands

Existing Demands

The City's monitors flow out to its distribution system via an inline flow meter downstream of the water storage tanks. Based on metered data records between 2016 and 2020, the City's municipal water demands range between 0.73 cfs in November and 1.54 cfs in July (see Table 2).

Ouray does not currently meter individual usage of water service taps throughout the water distribution system. Instead, water fees are based on assigned Equivalent Residential Units (EQRs). EQRs are based on the water use characteristic of each service tap; for example, a single-family house would be assigned an EQR of 1, while larger use buildings are based on number of rooms, kitchens, public washing machines, etc. In 2020, the City had 1372 EQRs assigned within its service area. Based on water storage tank outflow data received from the City, the City's average daily indoor water demand in 2020, calculated between the months of November and April, was 314 gallons-per-day (GPD) per EQR (see Table 3).

The City's municipal water use on a GPD per EQR dropped significantly between 2016 and 2020. This drop can be attributed to the City acting on its Water Efficiency Plan initially developed in 2016. Actions taken by the City include leak detection and repair, public awareness campaigns, and installation of individual water meters.

Future Demands

According to the City's 2018 Wastewater Treatment Master Plan, full build out municipal wastewater flows are expected to be approximately 38 percent greater than current conditions. To develop a planning level estimate of the City's full build out water demands, the City's average monthly water demands between 2016 and 2020 were increased by 38 percent. Table 2 provides a summary the City's full buildout water demand estimate. The City's full build out municipal water demands are estimated to range between 1.01 cfs in November and 2.12 cfs in July (See Table 2, Column 4).

4.2 Non-Potable Water Demands

The City currently uses potable water to supply non-potable water demands. The City of Ouray Ice Park operates from November through February and is projecting a full build out demand of

0.67 cfs (see Table 2, Column 11). As shown in Table 2, Weehawken Spring production is lowest during the Ice Park season, and the City has historically reduced water deliveries to the Ice Park, particularly during dry year conditions.

Other non-potable water demands include the City’s micro-hydroelectric plant, hot springs pool maintenance, and City and Ouray County dust suppression activities. The City also reduces water deliveries to these systems, when necessary, particularly during dry year conditions.

The City would supply the non-potable water demands from the raw transmission pipeline before the water treatment facility. The City has existing dedicated non-potable pipelines to deliver water for the ice park, micro hydro and hot springs pool use.

5.0 EXISTING AND FUTURE WATER SUPPLY GAPS

5.1 Existing Water Demands

As shown in Table 2, the City of Ouray’s municipal demands are at or nearly equal to Weehawken Spring production rates during a dry year condition, requiring to the City to reduce water deliveries to non-potable uses. Based on the legal and physical water availability at Weehawken Creek, it appears the addition of Weehawken Creek can meet the City’s near term non-potable water demands (see Table 2, Columns 12 and 13).

5.2 Future Water Demands

As the City’s municipal demands grow into the future, the City’s full buildout municipal demands are projected to exceed Weehawken Spring production by as much as 0.26 cfs during a dry year condition (see Table 4 Column 8). As a result, adding Weehawken Creek as a source of raw water supply to the City’s municipal system will be necessary to meet future water demands. Table 4 provides a summary of the excess water available to the City under full buildout conditions assuming Weehawken Creek and a surface water treatment plant are added to the City’s municipal water supply system. The addition of Weehawken Creek as a raw water source should meet full buildout municipal demands and non-potable water demands during an average year. During a dry year, the addition of Weehawken Creek should meet future municipal water demands and a majority (eleven out of twelve months) of non-potable water demands (see Table 4, Column 11).

6.0 RAW WATER SUPPLY PROJECT ALTERNATIVES ANALYSIS

The purpose of the City of Ouray’s Raw Water Supply Pipeline Project is to address the City’s near term non-potable water needs, long-term municipal water needs, and provide water transmission system redundancy via the installation of a new surface water diversion structure and associated pipeline that will add Weehawken Creek as a source of non-potable water supply. WWE consulted with the project stakeholders regarding Project design alternatives, and the following alternatives were reviewed and considered:

- Alternative No. 1: No-Action

- Alternative No. 2: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Southeast Pipeline Alignment.
- Preferred Alternative No. 3: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Camp Bird Road (CR 361) Alignment.
- Alternative No 4: Single Pipeline Alternative – Construct Weehawken Creek Pipeline and Slipline the Existing Pipeline.

The following sections provide a summary of each of the alternatives evaluated by the stakeholders and a summary of their pros and cons.

6.1 Alternative 1: No-Action

The first alternative considers no-action. Due to drought conditions in 2018, the City experienced shortages in Weehawken Spring water production during the Winter of 2018/2019. When Weehawken Spring production is low, the City has difficulty meeting municipal demands and is required to reduce water deliveries to non-potable water demands, including the Ice Park, a positive economic driver for the City during the winter. In the event the No-Action alternative is selected there will be near term and long term negative economic impacts to the City. The pros and cons of this Alternative 1 are summarized as follows:

Pros:

- The short-term cost of Alternative 1 is lowest; however, it does not outweigh the negative economic impacts summarized in the cons.

Cons:

- In the event the existing pipeline fails, the City has no means of delivering water from Weehawken Spring to its storage tanks, and there will be significant disruption to the City's ability to provide water service to its customers.
- Due to continued drought conditions, the City has reduced water deliveries to the Ice Park and other non-potable water systems. The Ice Park is a local economic driver for the City, particularly during the winter season, and has a negative economic impact on the City.
- Over the long-term, the City's municipal demands are projected to increase above Weehawken Spring production rates. Without an additional source of raw water supply to the City over the long term, economic growth of the City may become limited by its water supply.

The No-Action Alternative is not preferred by the City of Ouray and the Project stakeholders.

6.2 Alternative No. 2: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Southeast Pipeline Alignment.

The second alternative considers installation of a new pipeline between Weehawken Spring and the Mineral Farms Pump house that follows an alignment located to the southeast of the current pipeline alignment (see Figure 4). The length of this proposed section of pipeline is approximately 7,600 feet. This new pipeline will serve as the City's primary municipal water supply pipeline.

This alternative proposes to install a surface water diversion structure in Weehawken Creek at the decreed POD for the City's Weehawken Creek water right. From the diversion structure, a pipeline is installed to follow Weehawken Creek outside its right bank for 300 feet to Camp Bird Road. Once reaching Camp Bird Road the pipeline will turn south, cross Thistledown Bridge and follow the road until reaching the City's existing 10-inch diameter pipeline located in Camp Bird Road approximately 800 feet south of Thistledown Bridge. At this location, the new water pipeline is connected to the existing 10-inch diameter pipeline. The total length of this proposed section of pipeline is approximately 1,100 feet.

This alternative also includes 260 feet of emergency interconnect pipeline to the existing municipal water supply transmission pipeline (see Figure 4). This emergency interconnect provides the City with redundancy for its municipal water supply transmission system. The pros and cons of this Alternative 2 are summarized as follows:

Pros:

- This alternative is located outside of the Camp Bird Road right of way for a majority of its length and would reduce impacts to Camp Bird Road during construction.
- Maintains a constant source of water supply to the City during construction.
- Provides the City with a redundant water supply transmission line.

Cons:

- The location of the Southeast Pipeline Alignment is within difficult terrain, including a Canyon Creek crossing that is not located at an existing bridge. Installation of a pipeline crossing at Canyon Creek will likely require boring underneath the creek.
- A portion of the existing alignment is located close to Canyon Creek. Canyon Creek is in an alluvial valley with high potential for erosion during high flow event. There is a greater risk to the pipeline due to the potential for stream erosion and meandering when compared to the other alternatives.
- The Southeast Pipeline Alignment is in a more heavily forested and pristine area and will have larger environmental impacts when compared to the Preferred Alternative 3 and Alternative 4.

- The Southeast Pipeline Alignment will have more conflicts with residential buildings and driveways when compared to the other alternatives.
- Most expensive when compared to the other alternatives.

Alternative 2 is not preferred by the Project stakeholders as it more expensive when compared to the other alternatives. WWE's opinion of probable final engineering design, bidding services, construction observation and construction costs for Alternative 2 is approximately \$1,700,000 (see Table 5).

6.3 Preferred Alternative No. 3: Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Camp Bird Road (CR 361) Alignment.

The third alternative considers utilizing existing City Right-of-Way where possible and locates most of the new pipeline in Camp Bird Road. This alternative proposes installation of a new pipeline between Weehawken Spring and the Mineral Farms Pump house that follows the City's existing pipeline alignment along Camp Bird Road (see Figure 5). The new pipeline parallels the existing 10-inch pipeline and is routed over Canyon Creek on Harris Bridge. The length of this proposed section of pipeline is approximately 7,500 feet. This new pipeline will serve as the City's primary municipal water supply transmission pipeline.

This alternative proposes to install a surface water diversion structure in Weehawken Creek at the decreed POD for the City's Weehawken Creek water right. From the diversion structure, a pipeline is installed to follow Weehawken Creek outside its right bank for 300 feet to Camp Bird Road. Once reaching Camp Bird Road the pipeline will turn south, cross Thistledown Bridge and follow the road until reaching the City's existing 10-inch diameter pipeline located in Camp Bird Road approximately 800 feet south of Thistledown Bridge. At this location, the new water pipeline is connected to the existing 10-inch diameter pipeline. The total length of this proposed section of pipeline is approximately 1,100 feet.

This alternative also includes 260 feet of emergency interconnect pipeline to the existing municipal water supply transmission pipeline above the crossing of Weehawken Creek (see Figure 5). The existing pipeline crossing at Weehawken Creek is a problematic area because of the instability of the creek alluvium where the pipeline crosses underneath Weehawken Creek. The interconnect provides water connection between Weehawken Spring and the new pipeline routed over Weehawken Creek on the Thistledown Bridge. This emergency interconnect provides the City with redundancy for its municipal water supply transmission system.

The pros and cons of this Alternative 3 are summarized as follows:

Pros:

- The proposed pipeline alignment for this alternative is in areas with more easily accessible terrain for construction equipment when compared to Alternative 2. This alternative includes a new Weehawken Creek and Canyon Creek Crossing; however, the pipeline can cross the creeks at Thistledown Bridge, and Harris Bridge, respectively. The construction

cost for hanging a pipeline from the bottom of a bridge is less when compared to boring the pipeline underneath the creek.

- Impacts to undisturbed vegetation are less when compared to Alternative 2, as most of the pipeline is located in Camp Bird Road.
- Provides the City with a redundant water supply transmission line.
- Maintains a constant source of water supply to the City during construction.
- Lower cost when compared to Alternative 2.

Cons:

- Traffic impacts to Camp Bird Road are greater when compared to the other alternatives.

Alternative 3 is preferred by the Project stakeholders because it is less expensive when compared to the other alternatives. WWE's opinion of probable final engineering design, bidding services, construction observation and construction costs for Alternative 3 is approximately \$1,500,000 (see Table 6).

6.4 Alternative 4: Single Pipeline Alternative – Construct Weehawken Creek Pipeline and Slipline or Replace the Existing Pipeline

The fourth alternative considers installation of a single pipeline utilizing existing City Right-of-Way where possible and replaces or slip-lines the existing pipeline in Camp Bird Road. This alternative blends Weehawken Spring and Weehawken Creek water into a single pipeline approximately 800 feet south of Thistledown Bridge (see Figure 6). The length of this proposed section of slip-lining or pipeline replacement is approximately 7,500 feet. For this Alternative, the Weehawken Creek connection can only be activated after the City's drinking water treatment plant is constructed and operational.

This alternative proposes to install a surface water diversion structure in Weehawken Creek at the decreed POD for the City's Weehawken Creek water right. From the diversion structure, a pipeline is installed to follow Weehawken Creek outside its right bank for 300 feet to Camp Bird Road. Once reaching Camp Bird Road the pipeline will turn south, cross Thistledown Bridge and follow the road until reaching the City's existing 10-inch diameter pipeline located in Camp Bird Road approximately 800 feet south of Thistledown Bridge. At this location, the new water pipeline is connected to the existing 10-inch diameter pipeline which will be slip-lined or replaced as part of this alternative. The total length of this proposed section of pipeline is approximately 1,100 feet.

This alternative also includes 260 feet of emergency interconnect pipeline in the event the existing pipeline crossing at Weehawken Creek fails or becomes compromised (see Figure 6). This emergency interconnect provides the City with limited redundancy (one location only) for its water supply transmission system. The pros and cons of this Alternative 4 are summarized as follows:

Pros:

- The proposed pipeline alignment for this alternative is in areas with more easily accessible terrain for construction equipment when compared to Alternative 2. This alternative includes a new Weehawken Creek Crossing; however, the pipeline can cross the creek at Thistledown Bridge. The construction cost for hanging a pipeline from the bottom of a bridge is less when compared to boring the pipeline underneath the creek.
- Impacts to undisturbed vegetation are less when compared to Alternative 2, as most of the pipeline will be in Camp Bird Road.
- This alternative has a smaller right of way footprint when compared to Alternative 3.
- Lowest cost when compared to other Alternatives.

Cons:

- Does not provide the City with a fully redundant water supply transmission line.
- The City will be putting itself at risk of water supply interruption during construction. It will be difficult to slip-line the existing pipeline and provide the City with water service at the same time.

Alternative 4 is not preferred by the Project stakeholders as it estimated at the same cost as Preferred Alternative 3 and will put the City at risk for water supply interruption during construction. WWE's opinion of probable final engineering design, bidding services, construction observation and construction costs for Alternative 4 is approximately \$1,500,000 (see Table 7).

7.0 PREFERRED ALTERNATIVE: ALTERNATIVE 3

7.1 Project Description

The Project seeks to provide the City with a non-potable water supply pipeline that can meet the City's non-potable water supply needs and provide the City with a redundant water supply pipeline while maintaining water supply to the City during its construction. It also seeks to provide the City with an additional raw water supply in order to meet full build out municipal demands with the installation of a new drinking water treatment plant in the future.

The primary project components of the Preferred Alternative include the following (see Figure 5):

- Installation of a new surface water diversion structure on Weehawken Creek at the City's decreed POD for their Weehawken Creek water right. The surface water diversion structure is anticipated to consist of the following: 1) a concrete spillway weir and vault with a screening system to divert surface water from Weehawken Creek into the pipeline and 2) an infiltration gallery in Weehawken Creek to facilitate delivery of water to the pipeline when creek flows are low.
- Installation of approximately 1,100 feet of new 10-inch diameter HDPE pipeline between the Weehawken Creek surface water diversion structure and the location where the City's

existing pipeline first meets Camp Bird Road. This new pipeline will connect to the City's existing 10-inch diameter PVC pipeline and will reconnect Weehawken Creek to the City's raw water supply system (see Figure 5).

- Installation of approximately 7,500 feet of new 10-inch diameter HDPE pipeline between the location where the City's existing pipeline meets Camp Bird Road and the Mineral Farms Pump house. This new pipeline will connect to the City's more recently constructed 10-inch diameter HDPE pipeline and will become the City's municipal water supply pipeline (see Figure 5).
- Installation of approximately 260 feet of new 10-inch diameter HDPE emergency interconnect pipeline as shown on Figure 5, to provide the City with a redundant municipal water supply pipeline in the event there are issues with the new pipeline.

7.2 Conceptual Design Plan

Conceptual Design Plans (CDPs) for specific components of the Preferred Alternative are provided in Appendix A. The CDPs include typical pipeline installation details, and a conceptual design for the Weehawken Creek surface water diversion structure.

The Basis of Design Criteria used to develop the CDPs includes the following:

- Ouray County Frost Depth = 40 inches (Ouray County Land Use Code).
- Minimum pipe cover per manufactures recommendations = 6 inches below frost line or 3 feet minimum with traffic loading (JM Eagle).
- Separation requirements: The City is currently designing and will eventually construct a drinking water treatment plant. As a result, WVE does not anticipate needing to meet CDPHE minimum pipe separation criteria between water mains and raw surface water pipes.

The CDPs provided in Appendix A show pipeline details that meet this Basis of Design Criteria.

7.3 Field Investigations

Field Survey: Monadnock Mineral Services, Inc. (Monadnock), a licensed professional surveyor, made field visits to collect key elevation data, map existing easements from historical documentation, and field locate the City's decreed POD on Weehawken Creek. Key findings from the surveying investigation included:

- Weehawken Spring is at a high enough elevation to deliver approximately 2.0 cfs through the emergency interconnect pipeline and across Thistledown Bridge in the event of a pipeline failure downstream of the interconnect location. The current average monthly maximum demand of the City is approximately 1.54 cfs in June. Under full buildout conditions the average monthly maximum municipal demand is 2.12 cfs in June (see Table 2). Under full build out conditions, it is likely that the City's Weehawken Creek supply

can cover the additional 0.12 cfs needed to meet municipal demands because a water treatment plant will be installed by that time.

- The physical location of the Weehawken Creek decreed POD is located at a high enough elevation to physically divert enough water to meet the City's peak day demands in the future.
- The surveyor digitized the described locations of the City's existing Weehawken Spring Pipeline and Weehawken Creek Pipeline in Computer Aided Drafting (CAD) format to support future pipeline design phases.

Water Quality Sampling: Water quality samples from Weehawken Spring and Weehawken Creek were collected in September of 2020 and March of 2021 (see Table 8). Water quality sampling parameters were selected in accordance with CDPHE's Water Quality Control Division *Regulation 11 - Colorado Primary Drinking Water Regulations*, in the event Weehawken Creek is added as a source to the City's municipal water supply in the future. Based on the initial results of the water quality collected thus far, the water in Weehawken Creek is of excellent quality and appears to be a treatable surface water source for potable and non-potable water uses. WWE recommends ongoing source water quality collection and analysis in line with CDPHE regulations to assess adding the source to the City's municipal water system.

Low Flow Measurement in Weehawken Creek: WWE staff hand measured flow in Weehawken Creek on October 24, 2020. WWE used this hand measurement to check the reasonableness of WWE's area-weighted stream gage analysis of Weehawken Creek discussed in Section 3.2.2. WWE conducted this flow measurements in accordance with United States Geological Survey (USGS) Standards (Turnipseed and Sauer, 2010).

7.4 Right-of-Way/Land Requirements

A portion of the City's existing Weehawken Spring Pipeline and all the historical Weehawken Creek Pipeline are located on United States Forest Service (USFS) property and the Ouray County Right-of-Way associated with Camp Bird Road (see Figure 2). The City's municipal water supply and transmission system was initially constructed in the 1880s, and the City asserts that it has vested pre-USFS and pre-Federal Land Policy and Management Act (FLPMA) easement and right of way interests under the 1866 Act and other authorities. Nothing in this Report or underlying analysis is intended or shall be construed to abandon or diminish the City's vested pre-FLPMA easements or right of way claims.

The City's existing Weehawken Spring Box, Weehawken Spring Pipeline, Weehawken Creek Diversion and Weehawken Creek Pipeline are currently permitted on USFS land via a 2001 Special Use Permit (SUP) executed between the City and the USFS (see Appendix B). This SUP also includes the City's water storage tanks. The SUP authorizes the City to use or occupy USFS lands within the Uncompahgre National Forest. The permit covers 8.9 acres of area and the maintenance and operation of a municipal water supply system for the City within the Canyon Creek drainage basin.

WWE and the City reviewed the Preferred Project Alternative 3 with the USFS and according to USFS construction activities within the boundary of the existing SUP will require a temporary construction permit authorization from the USFS. According to USFS, to obtain the USFS temporary construction permit, the Project is required to go through the National Environmental Policy Act (NEPA) process, and the City is prepared to begin work on the necessary NEPA submittal documentation for the Project should the need arise.

For areas of the Project that are not currently covered under the existing SUP the following Right-of-Way / Land Requirements apply:

- Amending the City’s SUP to include installation of the water supply transmission pipelines from Weehawken Creek and Weehawken Spring. According to USFS, these areas will require NEPA.
- Amendment to the City’s SUP to include construction of a surface water diversion structure on Weehawken Creek at is decreed POD. According to USFS this area will require NEPA and USACE permit authorization.

7.5 Opinion of Probable Costs

See Table 6 for WWE’s opinion of probable final engineering design, permitting and construction costs for the Preferred Alternative. WWE developed this opinion using the conceptual design provided in Appendix A. Table 6 provides a breakdown of estimated quantities and costs for mobilization and demobilization, contractor permitting compliance, pipeline installation, trenching, bedding, backfilling, reinforced concrete diversion structure, and an infiltration gallery. The opinion of probable costs is based on available data at the time of this report was prepared and may not reflect the bidding climate when actual construction bids are received. The opinion of probable construction costs will be updated after final design is preformed and additional Project details are defined.

7.6 Schedule

The overall Project schedule will be determined once additional grant funding sources are identified, and the City’s finalizes a rate study to calculate revenue stream requirements in consideration of long-term water supply infrastructure costs.

7.7 Environmental and Cultural Impacts

7.7.1 Environmental Setting

The proposed location of the Weehawken Creek diversion structure is within a steep, narrow mountain canyon drainage which is tributary to Canyon Creek (see Figure 5). Weehawken Creek is a bedrock and cobble stream bed, periodically scoured during spring runoff and riparian and wetland vegetation is limited. The proposed pipeline to covey water from the Weehawken Creek diversion structure will run in an easterly direction along the right bank of Weehawken Creek until reaching Canyon Creek Road on the south side of Thistledown Bridge. From there, the pipeline

will run northeast across Thistledown Bridge until intersecting with the existing water line (see Figure 5).

The remainder of the Preferred Project Alternative pipeline alignment runs along the Canyon Creek Road, situated in the steep and narrow Canyon Creek drainage basin which is tributary to the Uncompahgre River. Canyon Creek is a rock-cobble stream bed, periodically scoured during spring runoff, with limited riparian and wetland vegetation. Access to the Canyon Creek drainage basin is provided by a Canyon Creek Road maintained by Ouray County. The hillsides of the Canyon Creek drainage basin are predominantly forested with conifer species.

7.7.2 Environmental Permitting Requirements

7.7.2.1 Clear Water Act (CWA) Section 404 Permit - Army Corps of Engineers

The Preferred Alternative will likely require Section 404 permitting under the Clean Water Act for the construction of the surface water intake and infiltration gallery structure in Weehawken Creek. WWE estimates permanent stream impacts of less than 0.5 acres, resulting in a minor impact to waters of the U.S. Initial discussions with the Army Corps of Engineers indicate that the Preferred Alternative would likely be permitted through the Nationwide Permit (NWP) System and covered under NWP #7 – Outfall Structures and Associated Intake Structures, or NWP #58 – Utility Line Activities for Water and Other Substances, or both. A preconstruction notification (PCN) is required for NWP #7 and only required for NWP #58 if the project will result in the loss of more than 0.1 acres of waters of the U.S. The footprint of the proposed surface water intake and infiltration gallery is approximately 0.05 acres, indicating that a PCN may not be required if permitted under NWP #58.

7.7.2.2 United States Forest Service (USFS)

The Project would occur partially on National Forest System lands. As discussed in Section 7.4, the City has historical easement claims that predate the dedication of the Grand Mesa Uncompahgre National Forest and FLPMA. The City of Ouray also has a SUP authorization from the USFS for the existing water supply system. The permit expires on December 31, 2021, and the City submitted a SUP renewal application in June of 2021 (see Appendix B). A new permit can be issued based on conformance with the USFS Forest Plan and compliance with the terms and conditions of the permit.

According to the USFS, construction of the Project would require a temporary construction authorization. After construction is complete, the authorization would be transitioned to a permanent special use permit.

According to USFS, the issuance of a construction authorization and a new permit for the Project would be subject to the NEPA process. At this point the USFS has indicated that a short-form Environmental Assessment (EA) would likely be used because the categorical exclusion process has been enjoined.

7.7.3 NEPA Compliance

The USFS NEPA process would assess compliance with pertinent laws and regulations, including the Endangered Species Act and Historic Preservations Act, among others. An initial project screening with the USFWS IPaC tool identified six federally-list species to be addressed in the project analysis. A review indicated that the project would be unlikely to result in notable effects to these species. The project has also been reviewed by the USFS biologist for USFS Sensitive species concerns. Several species would likely need to be addressed, including big horn sheep, goshawk, and possibly purple martin. The Project is unlikely to generate notable impacts to these species.

A records query with Office of Archaeology and Historic Preservation (OAHP) has been submitted for the project. The records search has indicated that there are approximately ten sites of concern within the project area (see Figure 7). Impacts to these sites will be avoided during construction as the pipeline alignment is within the already disturbed Camp Bird Right of Way.

There will be no net water depletion associated with the Project. The City owns a direct flow water right for 3.816 cfs in Weehawken Creek with an appropriation date of 4/15/1895, and the ability to divert an additional 5.2 cfs from Oak Creek with an appropriation date of 10/1/1881 at an alternate point of diversion. These water rights are used for the Project, and no additional diversions are contemplated.

7.8 Institutional Feasibility

Potential Project permitting requirements identified during the development of this Study are summarized in the following sections.

7.8.1 Federal Permits

Clear Water Act (CWA) Section 404 Permit: As discussed in Section 7.7.2.1 the Preferred Alternative will likely require a United States Army Corps of Engineers (USACE) Section 404 permit for construction of the surface water intake and infiltration gallery structure in Weehawken Creek. WVE anticipates the Preferred Alternative can be permitted under NWP #7 – Outfall Structures and Associated Intake Structures, or NWP #58 – Utility Line Activities for Water and Other Substances, or both. A preconstruction notification (PCN) is required for NWP #7 and only required for NWP #58 if the project will result in the loss of more than 0.1 acres of waters of the U.S. The footprint of the proposed surface water intake and infiltration gallery is approximately 0.05 acres, indicating that a PCN may not be required if permitted under NWP #58.

USFS Special Use Permit (SUP) and Construction Authorization: In June of 2021 the City renewed its SUP (see Appendix B) which includes coverage for 1) Weehawken Spring Collection System including access road, bridge over Canyon Creek, spring boxes and piping, 2) ten inch diameter water lines between Weehawken Spring and storage tanks and over flow from storage tanks to South Reservoir, 3) Water Storage and Treatment Area including two 500,000 gallon storage tanks, chlorination treatment building, valve and meter vault, piping, and access road, and 4) Weehawken Creek Point of Diversion to connection with Weehawken Spring pipeline.

According to the USFS, the City will need to update its SUP to include the additional pipeline as part of the Preferred Project Alternative.

As discussed in Section 7.7.2.2 the Preferred Alternative will require a temporary construction authorization from the USFS triggering a NEPA process. As discussed in Section 7.7.3, WWE's preliminary NPEPA compliance assessment does not foresee any issues with meeting NEPA compliance requirements for the Preferred Alternative, and the USFS is currently indicating that a short-form EA is likely required for construction authorization.

7.8.2 Ouray County Right of Way Access Permit

WWE spoke with the Ouray County Road and Bridge Department (Road and Bridge) Superintendent regarding permitting requirements for installation of the pipeline within the Ouray County Camp Bird Road ROW. Appendix C provides a copy of the Application for an Ouray County Right-Of-Way Permit. The permit application requires submittal of engineering plans, and adherence to OSHA Regulations for excavation and traffic control during construction. The selected contractor will be responsible for adhering to applicable OSHA Regulations. The application fee is \$100 plus \$0.20 per linear foot over 50 feet. The Preferred Alternative includes approximately 8,300 feet of new pipeline in the Ouray County Right-Of-Way, generating an application fee of approximately \$1,800. Once final engineering plans are developed, the City will submit the permit application to Road and Bridge for review and approval.

WWE also spoke with Road and Bridge regarding the proposed pipeline bridge crossings at Thistledown Bridge on Weehawken Creek and Harris Bridge on Canyon Creek. The County prefers hanging the pipeline below each bridge deck rather than open trenching or jack and boring the pipeline below the creeks. Based on WWE's preliminary review of each bridge's as-built information provided by Road and Bridge (see Appendix D), it is feasible to hang a 10" diameter pipe between the bridge girders on both the Thistledown Bridge and Harris Bridge.

7.8.3 CDPHE Engineering Review

Discussions with CDPHE staff indicate a formal CDPHE design review submittal for the pipeline may be required because the project may add a new source to the City's municipal water supply in the future. The City intends to provide submittal to CDPHE of the proposed design.

7.8.4 CDPHE Construction Stormwater Discharge Permit

The party responsible for creating a construction stormwater management plan and obtaining and complying with the CDPHE Construction Stormwater Discharge Permit is the selected Contractor for the Project.

7.8.5 Construction Dewatering Discharge Permit

To facilitate construction of the Weehawken Creek intake structure, the selected contractor will need to dewater an area within Weehawken Creek to maintain a dewatered condition within the working area for construction. The party responsible for creating a construction dewatering discharge plan and obtaining and complying with the CDPHE Construction Dewatering Discharge

Permit is the selected Contractor for the Project. Construction will occur during the Fall and Winter season when flow in Weehawken Creek is low.

8.0 FINANCIAL FEASIBILITY ANALYSIS

8.1 Loan Amount

The City is requesting a 30-year loan from the CWCB in an amount of \$750,000 with a 1 percent service fee (\$7,500) to accommodate 50% of the estimated \$1,500,000 total cost of the Project. The City intends to seek grant funding for the final design and construction phase of the Project through CWCB or other grant funding agencies. The City currently qualifies for the CWCB's Middle-Income Municipal rate of 2.15% based on their Median Household Income. The loan amount and interest rate will result in annual payments of \$34,524 (see Table 9).

Please note that the assumed interest rate is based on a recommendation from CWCB dated May 10, 2022, and at the time of the recommendation, represented the current middle-income interest rate. The interest rate will likely continue to climb since it is based on the market rate averaged over the past 6 months.

8.2 Financing Sources

Financing sources include the City's water utility service income from its water customers. As of January 2021, the City had 762 water service accounts equating to 1,372.12 EQRs (see Appendix E). The City's water customers are billed monthly on a cost per EQR basis and billed an annual service fee. A summary of the City's current water rate structure is provided in Appendix G.

The City also generates revenue from new tap fees. The City charges a water system investment fee of \$7,500 for up to a three-quarter inch nominal diameter tap collected prior to connection to the water system. New taps that solely service a fire system pay an investment fee of \$500 prior to connection. Connections larger than one inch are not allowed to connect unless the City determines that adequate capacity exists. The investment fee for taps greater than three-quarter inch is equal to the three-quarter inch tap fee multiplied by the square of the diameter of the larger tap (City of Ouray Municipal Code, 2021).

8.3 Revenue and Expenditure Projections

The Schedule of Revenue and Expenditure Projections is shown in Table 10. WWE and the City worked together to develop revenue and expenditure projections based on the City's water system audits between 2017 and 2019 (see Appendix G). The loan breakdown is by calendar year.

Baseline annual expenditures for the City include personnel and contractual services, utilities, maintenance and repairs, supplies, insurance claim expenses, and existing debt service. WWE and the City assumed a baseline annual expenditure of approximately \$500,000 per year, adjusted annually for inflation. A summary of the City's average annual and future projected expenditures is provided in Table 10. As indicated in Table 10, the City's projected annual revenue drops below its projected expenditures in year 13. The City will need to plan for a rate increase at or before year 13 to cover the loan repayment. As discussed in Section 1.2, the City is currently working on

a water and wastewater Capital Improvement Projects Plan which includes a rate analysis to understand the timing of necessary rate increases to cover costs of the Preferred Alternative, and other future water and wastewater infrastructure projects.

8.4 Loan Repayment Sources

8.4.1 Water Customers

As of January 2021, the City had 762 water service accounts equating to 1,372.12 EQRs. The number of EQR's are anticipated to increase over the next 30 years at a rate of approximately 0.6 percent per year based on historical EQR growth trends. Water service funds are generated via a current monthly charge of \$48.92 per EQR. Annual revenue for water system investment funds is based on historical water account growth trends. Water system investment funds are generated via a one-time connection charge of \$7,500 per new service tap.

8.4.2 Fifteen Percent Tax on Short-Term Rental Properties

In 2022 the City of Ouray is planning to institute a 15 percent tax on short-term rental properties within its City limits. The tax revenues for this short-term rental tax are earmarked to fund the City's future water and wastewater projects. The City is projecting an annual tax revenue stream of \$400,000, half of which (\$200,000) will be split 50/50 between the City's water and sewer enterprise accounts (\$100,000 to each enterprise account).

8.4.3 Grant Funding

The City intends to seek grant funding for the final design and construction phase of the project through CWCB or other grant funding agencies. The City intends to seek grant funds to cover 50% of the anticipated Preferred Alternative costs.

8.4.4 Hydropower Production

There is a possibility to add hydropower production to the preferred project alternative in the future. WWE conceptually evaluated potential hydropower production for the pipeline and San Miguel Power Association (SMPA) provided WWE with a letter of positive preliminary acceptance. WWE estimates the project could generate approximately 43,000 kWh per month with the addition of a penstock and hydropower facility. SMPA estimated the purchase price between \$0.04-0.05 per kWh, totaling an extra \$20,000 to \$26,000 in income for the City (see Appendix F). The capital costs for including hydropower production as part of the preferred project alternative are not included at this time, and revenue from hydropower production is not currently considered in the financial impacts.

8.5 Financial Impacts

In 2021 the City received a grant from DOLA to develop a water and wastewater Capital Improvement Plan (CIP) to evaluate the need, timing, and funding approach for long term infrastructure projects, including the Preferred Alternative and a drinking water treatment plant.

Currently, the City’s annual revenue stream is sufficient to cover the annual loan payment for the Preferred Alternative.

8.6 TABOR (Taxpayer’s Bill of Rights) Issues

The City of Ouray qualifies as a TABOR enterprise and receives and spends state grant funds under TABOR spending limits. An enterprise may receive up to 10 percent of its annual revenue from state and local government sources combined without getting approval from the taxpayers. The requested loan amount is greater than 10% of the City’s projected annual revenue and will require approval by the City’s taxpayers.

8.7 Collateral

The City offers the Preferred Alternative as collateral and will dedicate its water fund revenues to offset nonpayment. In the event the City is unable to repay the CWCB loan amount, the Weehawken Creek surface water diversion structure and associated pipeline will transfer ownership to the CWCB. In addition, the CWCB will receive revenue generated by its water customers to repay the loan.

8.8 Sponsor Creditworthiness

The City’s sponsor creditworthiness information is provided in Appendix G.

8.9 CWCB Water Project Loan Application

The City is currently working on Water and Wastewater Capital Improvement Project Plan that will incorporate the Raw Water Supply Pipeline Project into their longer-term capital project planning. At this time, the City anticipates the Raw Water Supply Pipeline Project could occur in or around 2026. Per CWCB recommendations, the City should begin the process of applying for the loan approximately 6-months prior to the desired start date of the Project.

9.0 CONCLUSION AND RECOMMENDATIONS

It is the City of Ouray and WWE’s recommendation that Alternative No. 3 be selected as the Preferred Alternative. This recommendation is based on the immediate short-term need for a non-potable water supply, and the long-term need for an additional source of water to meet the City’s growing municipal demands.

10.0 REFERENCES CONSULTED

CDPHE, 2017. State of Colorado Design Criteria for Potable Water Systems. Water Quality Control Division Safe Drinking Water Program Implementation Policy #5. Effective: December 15, 2017. Colorado Department of Public Health and Environment.

City of Ouray Municipal Code, 2021. Chapter 9 – Water and Sewer Systems. Section 9-4 Water and Sewer Investment Tap Fees and Section 9-6 – Water and Sewer Charges. Available here: <https://www.codepublishing.com/CO/Ouray/> Accessed: September 2021.

Turnipseed, D.P., and Sauer, V.B., 2010, Discharge measurements at gaging stations: U.S. Geological Survey Techniques and Methods book 3, chap. A8, 87 p. (Also available at <http://pubs.usgs.gov/tm/tm3-a8/>.)

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TABLES

Table 1
City of Ouray Water Rights Inventory
Municipal Raw Water Supply

Water Right Name	Adjudication Date	Appropriation Date	Administration Number	Case Number	Use	Decreed Diversion Rate	Decreed Storage Volume	Comment
						(CFS)	(AF)	
Weehawken Spring	12/6/1904	1889-07-01	14427.00000	CA1254	Fire, Domestic, Storage, and other beneficial domestic uses for the City	3.816		Current source of water supply for Town's municipal system.
Weehawken Creek Pipeline and New Reservoir	12/6/1904	1895-04-15	16541.00000	CA1254	Fire, Domestic, Storage, and other beneficial domestic uses for the City	3.816		Surface water right, reserved for future use.
New Reservoir (South Reservoir)	12/6/1904	1889-07-01	14427.00000	CA1254	Fire, Domestic, Storage, and other beneficial domestic uses for the City		2.25	In use, spills to Uncompahgre River.
Oak Creek	12/6/1904	1881-10-01	11597.00000	CA1254	Fire, Domestic, Storage, and other beneficial domestic uses for the City	5.2		Surface water right, reserved for future use.
Oak Creek Reservoir (North Reservoir)	12/6/1904	1881-10-01	11597.00000	CA1254	Fire, Domestic, Storage, and other beneficial domestic uses for the City		0.79	Reserved for future use.
Oak Creek Alt Point Weehawken Spring and Weehawken Creek	12/6/1904	1881-10-01	11597.00000	W-1208	Fire, Domestic, Storage, and other beneficial domestic uses for the City	5.2		Alternate Point of Diversion for Oak Creek Water Right
Totals						12.832	3.04	

Table 2
Current and Future Water Supply Deficit with Weehawken Spring without Surface Water Treatment Plant
City of Ouray
 (All Values in CFS)

Month	Municipal Supply and Demand								Non-Potable Supply and Demand				
	Weehawken Spring Production		Average Reported Municipal Demands		Excess (+) or Deficit (-) Municipal Water Available				Weehawken Creek Supply		Ice Park Demand	Excess Water Available for other Non-Potable Uses	
					Current Conditions		Full Buildout					Average Year	
	Average Production	Dry Year Production	Current Municipal	Full Buildout Municipal	Average Year	Dry Year	Average Year	Dry Year	Average Production	Dry Year Production	Average Year	Dry Year	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
January	1.32	1.00	0.86	1.19	0.45	0.13	0.13	-0.19	1.18	0.92	0.67	0.51	0.25
February	1.42	0.97	0.88	1.21	0.55	0.09	0.22	-0.24	1.18	0.87	0.67	0.51	0.20
March	1.38	0.99	0.86	1.18	0.52	0.13	0.20	-0.19	1.99	1.55	0.0	1.99	1.55
April	2.07	2.15	0.82	1.13	1.25	1.33	0.93	1.02	4.92	4.62	0.0	4.92	4.62
May	3.65	2.79	1.03	1.42	2.61	1.76	2.22	1.37	15.45	8.37	0.0	15.45	8.37
June	3.84	3.06	1.45	2.00	2.39	1.62	1.84	1.07	22.75	5.90	0.0	22.75	5.90
July	3.47	2.73	1.50	2.07	1.97	1.23	1.40	0.65	9.42	2.04	0.0	9.42	2.04
August	2.96	2.29	1.38	1.90	1.59	0.91	1.06	0.39	4.21	1.61	0.0	4.21	1.61
September	2.53	1.72	1.26	1.74	1.27	0.46	0.79	-0.02	3.29	3.22	0.0	3.29	3.22
October	2.23	1.26	0.88	1.22	1.35	0.37	1.01	0.04	2.79	2.51	0.0	2.79	2.51
November	1.72	1.19	0.71	0.99	1.00	0.47	0.73	0.20	1.81	1.57	0.67	1.14	0.90
December	1.50	1.10	0.82	1.14	0.68	0.27	0.37	-0.04	1.36	1.10	0.67	0.69	0.43

Column Notes:

- (1) Weehawken Spring production average from City meter data (1995-2020) post Mineral Farms delivery.
- (2) Weehawken Spring dry period production from City meter data. Data for January through June is from 2019. Data for July through December is from 2018.
- (3) Current municipal water demands averaged from (2016-2021) based on City meter data to distribution.
- (4) Equals Column (3) x 1.38. Future buildout demands are estimated by increasing current conditions demands by 38% based on City of Ouray Wastewater Treatment Master Plan projections.
- (5) Equals Column (1) - Column (3).
- (6) Equals Column (2) - Column (3).
- (7) Equals Column (1) - Column (4).
- (8) Equals Column (2) - Column (4).
- (9) Estimated average monthly streamflow in Weehawken Creek Flow based on an area-weighted stream gage analysis of USGS Station #09146020 Uncompahgre River Near Ouray CO (URNOC) between 2001 and 2019. Calculated by multiplying the flow recorded at URNOC by the ratio of the Weehawken Creek Drainage Area (2,251 acres) and URNOC drainage area (48,110 acres) (basin area ratio = 4.86%).
- (10) Estimated average monthly streamflow in Weehawken Creek Flow in 2002 based on an area-weighted stream gage analysis of USGS Station #09146020 Uncompahgre River Near Ouray CO (URNOC). Calculated by multiplying the average monthly flow recorded at URNOC in 2002 by the ratio of the Weehawken Creek Drainage Area (2,251 acres) and URNOC drainage area (48,110 acres) (basin area ratio = 4.86%). On October 24, 2020 WWE measured flow in Weehawken Creek to be 1.6 cfs, while the area-weighted stream gage analysis resulted in an estimate
- (11) Peak day Ice Park demands based on telecommunication with Ice Park. OIPI peak day estimate is 300 gpm or 0.67 cfs.
- (12) Equals Column (9) - Column (11).
- (13) Equals Column (10) - Column (11).

Table 3
Average Daily Water Use by Month per Equivalent Residential Unit
City of Ouray
(All values in gallons per day per equivalent residential unit)

EQR's by Year ¹	2014	2015	2016	2017	2018	2019	2020
	1,344	1,345	1,347	1,349	1,351	1,351	1,372
Month	GPD/EQR	GPD/EQR	GPD/EQR	GPD/EQR	GPD/EQR	GPD/EQR	GPD/EQR
January	414	443	512	571	366	406	303
February	407	456	530	545 ²	363	418	325
March	397	503	507	560	379	412	310
April	466	529	512	503	358	414	321
May	516	513	537	531	566	440	527
June	887	732	820	858	703	611	633
July	827	758	839	808	697	706	622
August	721	766	700	689	629	634	666
September	658	673	659	674	575	647	536
October	527	589	543	439	416	371	394
November	365	464	503	311	373	259	297
December	467	491	588	426	403	277	327
Annual Average	554	576	604	576	486	466	438
Winter Only Annual Average ³	419	481	525	486	374	364	314

Notes

¹EQR's for 2014-2017 were interpolated based on City provided EQR data from 2011 and 2018. 2019 EQR count assumed to be equal to 2018 EQR.

²Questionable data in February 2017 (value is equal to average of November 2016 to April 2017).

³Average January to April and November to December.

Estimated water use is based on metered effluent data from water storage to distribution. This table does not take into consideration distribution system losses.

Table 4
Current and Future City of Ouray Water Supply Deficit with Weehawken Spring and Weehawken Creek
with Future Surface Water Treatment Plant

City of Ouray
(All Values in CFS)

Month	City of Ouray Raw Water Supply				Average Reported Municipal Demands		Ice Park Demands	Excess (+) or Deficit (-) Municipal Water Available			
	Weehawken Spring		Weehawken Creek					Current Conditions		Full Buildout	
	Average Production	Dry Year Production	Average Production	Dry Year Production	Current Municipal	Full Buildout Municipal		Average Year	Dry Year	Average Year	Dry Year
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
January	1.32	1.00	1.2	0.9	0.86	1.19	0.67	0.96	0.38	0.63	0.05
February	1.42	0.97	1.2	0.9	0.88	1.21	0.67	1.06	0.30	0.73	-0.03
March	1.38	0.99	2.0	1.5	0.86	1.18	0.00	2.52	1.68	2.19	1.36
April	2.07	2.15	4.9	4.6	0.82	1.13	0.00	6.16	5.95	5.85	5.64
May	3.65	2.79	15.4	8.4	1.03	1.42	0.00	18.06	10.13	17.67	9.74
June	3.84	3.06	22.8	5.9	1.45	2.00	0.00	25.14	7.51	24.59	6.96
July	3.47	3.69	9.4	2.0	1.50	2.07	0.00	11.39	4.23	10.82	3.66
August	2.96	3.65	4.2	1.6	1.38	1.90	0.00	5.80	3.88	5.28	3.35
September	2.53	3.38	3.3	3.2	1.26	1.74	0.00	4.56	5.34	4.08	4.86
October	2.23	2.44	2.8	2.5	0.88	1.22	0.00	4.14	4.07	3.81	3.73
November	1.72	1.91	1.8	1.6	0.71	0.99	0.67	2.14	2.10	1.87	1.83
December	1.50	1.67	1.4	1.1	0.82	1.14	0.67	1.37	1.28	1.06	0.96

Column Notes

- (1) Weehawken Spring production average from City (1995-2020).
- (2) Weehawken Spring production for low water year 2019. Based on data available, 2019 had lowest spring production records during winter.
- (3) Estimated average monthly streamflow in Weehawken Creek Flow based on an area-weighted stream gage analysis of USGS Station #09146020 Uncompahgre River Near Ouray CO (URNOC) between 2001 and 2019. Calculated by multiplying the flow recorded at URNOC by the ratio of the Weehawken Creek Drainage Area (2,251 acres) and URNOC drainage area (48,110 acres) (basin area ratio = 4.86%).
- (4) Estimated average monthly streamflow in Weehawken Creek Flow in 2002 based on an area-weighted stream gage analysis of USGS Station #09146020 Uncompahgre River Near Ouray CO (URNOC). Calculated by multiplying the average monthly flow recorded at URNOC in 2002 by the ratio of the Weehawken Creek Drainage Area (2,251 acres) and URNOC drainage area (48,110 acres) (basin area ratio = 4.86%). On October 24, 2020 WWE measured flow in Weehawken Creek to be 1.6 cfs, while the area-weighted stream gage analysis resulted in an estimate of 0.9 cfs.
- (5) Current municipal water demands averaged from 2016 to present.
- (6) Equals Column (5) x 1.38. Future buildout demands are estimated by increasing current conditions demands by 38% based on City of Ouray Wastewater Treatment Master Plan projections.
- (7) Peak day Ice Park demands based on telecommunication with Ice Park. OIPI peak day estimate is 300 gpm or 0.67 cfs.
- (8) Equals Column (1) + Column (3) - Column (5) - Column (7).
- (9) Equals Column (2) + Column (4) - Column (5) - Column (7).
- (10) Equals Column (1) + Column (3) - Column (6) - Column (7).
- (11) Equals Column (2) + Column (4) - Column (6) - Column (7).

Table 5.
Planning Level Opinion of Probable Cost
Alternative No. 2

Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Southeast Pipeline Alignment
City of Ouray Raw Water Supply Pipeline Project

Projected Project Costs for Informational Purposes Only	Planning Level Estimated Engineering / Permitting / Services During Bidding and Construction					
	Pipeline Engineering Design					\$100,000
	Geotechnical Engineering Services					\$40,000
	Services During Bidding ¹					\$12,000
	Environmental - 404 Permitting and USFS Compliance					\$80,000
	Engineering Services During Construction ²					\$64,000
	Geotechnical Material Testing Services During Construction					\$70,000
	Planning Level Estimated Final Engineering / Final Permitting / Services During Bidding and Construction					\$366,000
	Planning Level Construction Cost Estimate					
	Description	Cost per Unit	Unit	Reference	Quantity (±)	Cost
	Mobilization / Demobilization					
	10% of Permits, Pipeline Construction, Weehawken Creek Surface Water Intake and Infiltration Gallery Costs	\$85,000	LS		1	\$85,000
	Permits					
	Stormwater Permit Compliance	\$19,000	LS	3	1	\$19,000
	Dewatering Permit Compliance	\$10,000	LS	4	1	\$10,000
	Traffic Control and Ouray County Road and Bridge Permit Fee	\$40,000	LS	5	1	\$40,000
	Pipeline Construction					
	10" Diam HDPE Pipe - Main Pipeline	\$26	LF	6	7600	\$198,000
	10" Diam HPDE Pipe - Weehawken Creek Connection	\$26	LF	6	1100	\$29,000
	10" Diam HDPE Pipe - Emergency Interconnect	\$26	LF	6	260	\$7,000
	Canyon Creek Directional Drilling	\$490	LF	7	200	\$98,000
	Backflow Preventor	\$26,000	EA	8	1	\$26,000
	Misc Valves	\$24,000	LS	9	1	\$24,000
	Earthwork Trenching	\$18	LF	10	8960	\$158,000
	Pipe Bedding	\$10	LF	11	8960	\$90,000
	Air Relief Vacuum Valve Vault	\$6,000	EA	12	6	\$36,000
	Weehawken Creek Surface Water Intake and Infiltration Gallery Construction					
	Infiltration Gallery - Well Screens and Backfill	\$950	LF of well screen	13	40	\$38,000
	Diversion Canal Gates	\$5,000	EA	4	2	\$10,000
	Reinforced Concrete Headgate Structure	\$1,500	CY	14	41	\$62,000
	Construction Subtotal					\$930,000
	Planning Level Construction Cost Estimate Including Contingency +30%					\$1,300,000
	Total Planning Level Estimated Total Construction / Permitting and Engineering (rounded to nearest 100K)					\$1,700,000

References:

- 1 Assume bids open for 1 month @15 hours per week
- 2 Assume 4 month construction schedule @20 hours per week
- 3 Estimated at 2.5% of Pipeline Construction and Weehawken Creek Surface Water Intake and Infiltration Gallery Construction Costs.
- 4 Mile High Flood District Bid Tabs.
- 5 Assumes 4 month construction schedule @ 10 hours a day with a cost of \$40 per hour and Ouray County ROW Permit Fee.
- 6 2020 RS Means - 221113780098
- 7 Quote received from Directional Drilling Contractor
- 8 Watts Brand Model 774DCDA-OSY-LM (10") and 20% markup for installation.
- 9 Estimated as 10% of ten-inch diameter pipeline construction costs.
- 10 2015 RS Means - G10308053540 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 11 2015 RS Means - G10308152180 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 12 2020 RS Means - 331419201120, 2020 RS Means - 330561101300, 2015 RS Means - G30302105840 (adjusted to 2021 Cost).
- 13 Unit Cost from infiltration gallery bid received by WWE in 2012 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 14 Recent unit costs from bids received by WWE for Reinforced Concrete Installation

Table 6.
Planning Level Opinion of Probable Cost
Preferred Alternative No. 3

Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Camp Bird Road (CR 361) Alignment
City of Ouray Raw Water Supply Pipeline Project

Projected Project Costs for Informational Purposes Only	Planning Level Estimated Engineering / Permitting / Services During Bidding and Construction					
	Pipeline Engineering Design					\$100,000
	Geotechnical Engineering Services					\$40,000
	Services During Bidding ¹					\$12,000
	Environmental - 404 Permitting and USFS Compliance					\$60,000
	Engineering Services During Construction ²					\$64,000
	Geotechnical Material Testing Services During Construction					\$70,000
	Planning Level Estimated Final Engineering / Final Permitting / Services During Bidding and Construction					\$346,000
	Planning Level Construction Cost Estimate					
	Description	Cost per Unit	Unit	Reference	Quantity (±)	Cost
	Mobilization / Demobilization					
	10% of Permits, Pipeline Construction, Weehawken Creek Surface Water Intake and Infiltration Gallery Costs	\$74,000	LS		1	\$74,000
	Permits					
	Stormwater Permit Compliance	\$17,000	LS	3	1	\$17,000
	Dewatering Permit Compliance	\$10,000	LS	4	1	\$10,000
	Traffic Control	\$39,000	LS	5	1	\$39,000
	Pipeline Construction					
	10" Diam HDPE Pipe - Main Pipeline	\$26	LF	6	7500	\$195,000
	10" Diam HPDE Pipe - Weehawken Creek Connection	\$26	LF	6	1100	\$29,000
	10" Diam HDPE Pipe - Emergency Interconnect	\$26	LF	6	260	\$7,000
	Backflow Preventor	\$26,000	EA	7	1	\$26,000
	Misc Valves	\$24,000	LS	8	1	\$24,000
	Earthwork Trenching	\$18	LF	9	8860	\$157,000
	Pipe Bedding	\$10	LF	10	8860	\$89,000
	Air Relief Vacuum Valve Vault	\$6,000	EA	11	6	\$36,000
	Weehawken Creek Surface Water Intake and Infiltration Gallery Construction					
	Infiltration Gallery - Well Screens and Backfill	\$950	LF of well screen	12	40	\$38,000
	Diversion Canal Gates	\$5,000	EA	4	2	\$10,000
	Reinforced Concrete Headgate Structure	\$1,500	CY	13	41	\$62,000
	Construction Subtotal					\$820,000
	Planning Level Construction Cost Estimate Including Contingency +30%					\$1,100,000
	Total Planning Level Estimated Total Construction / Permitting and Engineering (rounded to nearest 100K)					\$1,500,000

References:

- 1 Assume bids open for 1 month @15 hours per week
- 2 Assume 4 month construction schedule @20 hours per week
- 3 Estimated at 2.5% of Pipeline Construction and Weehawken Creek Surface Water Intake and Infiltration Gallery Construction Costs.
- 4 Mile High Flood District Bid Tabs.
- 5 Assumes 4 month construction schedule @ 10 hours a day with a cost of \$40 per hour.
- 6 2020 RS Means - 221113780098
- 7 Watts Brand Model 774DCDA-OSY-LM (10") and 20% markup for installation.
- 8 Estimated as 10% of ten-inch diameter pipeline construction costs.
- 9 2015 RS Means - G10308053540 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 10 2015 RS Means - G10308152180 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 11 2020 RS Means - 331419201120, 2020 RS Means - 330561101300, 2015 RS Means - G30302105840 (adjusted to 2021 Cost).
- 12 Unit Cost from infiltration gallery bid received by WWE in 2012 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 13 Recent unit costs from bids received by WWE for Reinforced Concrete Installation

Table 6.
Planning Level Opinion of Probable Cost
Preferred Alternative No. 3

Redundant Pipeline Alternative – Construct a 2nd Pipeline in the Camp Bird Road (CR 361) Alignment
City of Ouray Raw Water Supply Pipeline Project

Projected Project Costs for Informational Purposes Only	Planning Level Estimated Engineering / Permitting / Services During Bidding and Construction						
	Pipeline Engineering Design					\$100,000	
	Geotechnical Engineering Services					\$40,000	
	Services During Bidding ¹					\$12,000	
	Environmental - 404 Permitting and USFS Compliance					\$60,000	
	Engineering Services During Construction ²					\$64,000	
	Geotechnical Material Testing Services During Construction					\$70,000	
	Planning Level Estimated Final Engineering / Final Permitting / Services During Bidding and Construction					\$346,000	
	Planning Level Construction Cost Estimate						
	Description		Cost per Unit	Unit	Reference	Quantity (±)	Cost
	Mobilization / Demobilization						
	10% of Permits, Pipeline Construction, Weehawken Creek Surface Water Intake and Infiltration Gallery Costs		\$74,000	LS		1	\$74,000
	Permits						
	Stormwater Permit Compliance		\$17,000	LS	3	1	\$17,000
	Dewatering Permit Compliance		\$10,000	LS	4	1	\$10,000
	Traffic Control		\$39,000	LS	5	1	\$39,000
	Pipeline Construction						
	10" Diam HDPE Pipe - Main Pipeline		\$26	LF	6	7500	\$195,000
	10" Diam HPDE Pipe - Weehawken Creek Connection		\$26	LF	6	1100	\$29,000
	10" Diam HDPE Pipe - Emergency Interconnect		\$26	LF	6	260	\$7,000
	Backflow Preventor		\$26,000	EA	7	1	\$26,000
	Misc Valves		\$24,000	LS	8	1	\$24,000
	Earthwork Trenching		\$18	LF	9	8860	\$157,000
	Pipe Bedding		\$10	LF	10	8860	\$89,000
	Air Relief Vacuum Valve Vault		\$6,000	EA	11	6	\$36,000
	Weehawken Creek Surface Water Intake and Infiltration Gallery Construction						
	Infiltration Gallery - Well Screens and Backfill		\$950	LF of well screen	12	40	\$38,000
	Diversion Canal Gates		\$5,000	EA	4	2	\$10,000
	Reinforced Concrete Headgate Structure		\$1,500	CY	13	41	\$62,000
	Construction Subtotal					\$820,000	
	Planning Level Construction Cost Estimate Including Contingency +30%					\$1,100,000	
	Total Planning Level Estimated Total Construction / Permitting and Engineering (rounded to nearest 100K)					\$1,500,000	
References:							
1 Assume bids open for 1 month @15 hours per week							
2 Assume 4 month construction schedule @20 hours per week							
3 Estimated at 2.5% of Pipeline Construction and Weehawken Creek Surface Water Intake and Infiltration Gallery Construction Costs.							
4 Mile High Flood District Bid Tabs.							
5 Assumes 4 month construction schedule @ 10 hours a day with a cost of \$40 per hour.							
6 2020 RS Means - 221113780098							
7 Watts Brand Model 774DCDA-OSY-LM (10") and 20% markup for installation.							
8 Estimated as 10% of ten-inch diameter pipeline construction costs.							
9 2015 RS Means - G10308053540 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.							
10 2015 RS Means - G10308152180 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.							
11 2020 RS Means - 331419201120, 2020 RS Means - 330561101300, 2015 RS Means - G30302105840 (adjusted to 2021 Cost).							
12 Unit Cost from infiltration gallery bid received by WWE in 2012 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.							
13 Recent unit costs from bids received by WWE for Reinforced Concrete Installation							

Table 7.
Planning Level Opinion of Probable Cost
Alternative No. 4

Single Pipeline Alternative – Construct Weehawken Creek Pipeline and Slipline the Existing Pipeline
City of Ouray Raw Water Supply Pipeline Project

Projected Project Costs for Informational Purposes Only	Planning Level Estimated Engineering / Permitting / Services During Bidding and Construction					
	Pipeline Engineering Design					\$100,000
	Geotechnical Engineering Services					\$40,000
	Services During Bidding ¹					\$12,000
	Environmental - 404 Permitting and USFS Compliance					\$60,000
	Engineering Services During Construction ²					\$64,000
	Geotechnical Material Testing Services During Construction					\$70,000
	Planning Level Estimated Final Engineering / Final Permitting / Services During Bidding and Construction					\$346,000
	Planning Level Construction Cost Estimate					
	Description	Cost per Unit	Unit	Reference	Quantity (±)	Cost
	Mobilization / Demobilization					
	10% of Permits, Pipeline Construction, Weehawken Creek Surface Water Intake and Infiltration Gallery Costs	\$77,000	LS		1	\$77,000
	Permits					
	Stormwater Permit Compliance	\$18,000	LS	3	1	\$18,000
	Dewatering Permit Compliance	\$10,000	LS	4	1	\$10,000
	Traffic Control	\$39,000	LS	5	1	\$39,000
	Pipeline Construction					
	Slip-line Existing 10" Diam PVC Pipe	\$30	LF		9200	\$276,000
	10" Diam HPDE Pipe - Weehawken Creek Connection	\$26	LF	6	1100	\$29,000
	10" Diam HDPE Pipe - Emergency Interconnect	\$26	LF	6	260	\$7,000
	Backflow Preventor	\$26,000	EA	7	1	\$26,000
	Misc Valves	\$32,000	LS	8	1	\$32,000
	Earthwork Trenching	\$18	LF	9	1360	\$24,000
	Pipe Bedding	\$10	LF	10	1360	\$14,000
	Air Relief Vacuum Valve Vault	\$6,000	EA	11	6	\$36,000
	Temporary Water By-pass System	\$150,000	LS	12	1	\$150,000
	Weehawken Creek Surface Water Intake and Infiltration Gallery Construction					
	Infiltration Gallery - Well Screens and Backfill	\$950	LF of well screen	13	40	\$38,000
	Diversion Canal Gates	\$5,000	EA	4	2	\$10,000
	Reinforced Concrete Headgate Structure	\$1,500	CY	14	41	\$62,000
	Construction Subtotal					\$850,000
	Planning Level Construction Cost Estimate Including Contingency +30% for Pipeline only					\$1,100,000
	Total Planning Level Estimated Total Construction / Permitting and Engineering (rounded to nearest 100K)					\$1,500,000

References:

- 1 Assume bids open for 1 month @15 hours per week
- 2 Assume 4 month construction schedule @20 hours per week
- 3 Estimated at 2.5% of Pipeline Construction and Weehawken Creek Surface Water Intake and Infiltration Gallery Construction Costs.
- 4 Mile High Flood District Bid Tabs.
- 5 Assumes 4 month construction schedule @ 10 hours a day with a cost of \$40 per hour.
- 6 2020 RS Means - 221113780098.
- 7 Watts Brand Model 774DCDA-OSY-LM (10") and 20% markup for installation.
- 8 Estimated as 10% of ten-inch diameter pipeline construction costs.
- 9 2015 RS Means - G10308053540 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 10 2015 RS Means - G10308152180 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 11 2020 RS Means - 331419201120, 2020 RS Means - 330561101300, 2015 RS Means - G30302105840 (adjusted to 2021 Cost).
- 12 WWE experience with similar projects and bid tabs.
- 13 Unit Cost from infiltration gallery bid received by WWE in 2012 - adjusted to 2021 costs using Engineering News Record Construction Cost Index.
- 14 Recent unit costs from bids received by WWE for Reinforced Concrete Installation.

Table 8
Source Raw Water Quality Results Summary
City of Ouray

Sample Location:	Weehawken Spring Vault (WSV 1)			Weehawken Creek (WC 1)		Maximum Contaminant Level (MCL)	Secondary MCL	Lab Reporting Information		
Sample Date	9/28/2018	9/21/2020	3/24/2021	9/21/2020	3/24/2021			Reporting Limit	Method Detection Limit	Units
Analyte	Result	Result	Result	Result	Result					
Microbiology										
Total Coliform		Absent	Absent	Present	Present	Absent				Unitless
E. Coli		Absent	Absent	Absent	Absent	Absent				Unitless
General Chemistry										
Alkalinity, Bicarbonate as CaCO3	70	45	64	53	70			10	7.16	mg/L
Alkalinity, Carbonate as CaCO3	<10	<10	<10	<10.0	<10			10		mg/L
Alkalinity, Hydroxide as CaCO3	<10	<10	<10	<10.0	<10			10		mg/L
Alkalinity, Total as CaCO3	70	45	64	53	70			10	7.16	mg/L
Ammonia as N	<0.1	<0.1	<0.100	0.124	<0.1			0.1	0.0251	mg NH3-N/L
Chloride	<1	<1	1.26	<1	<1			1	0.0886	mg/L
Conductivity		419	610	146	160			1		umho/cm @ 25° C
Cyanide, Total		<0.01	<0.01	<0.0100	<0.01	0.2		0.01	0.00122	mg/L
Fluoride	0.332	0.296	0.294	0.15	0.166	4.0		0.1	0.00971	mg/L
H2S		0.0147	0.00888	0.00795	0.00462			0.05	0.001	mg/L
Nitrate as N		0.16	0.206	0.041	0.186	10 (as Nitrogen)		0.02	0.01	mg/L
Nitrate+Nitrite as N	0.172	0.16	0.206	0.0408	0.186	10 (as Nitrogen)		0.04	0.0155	mg/L
Nitrite as N		<0.020	<0.020	<0.020	<0.02	1 (as Nitrogen)		0.02	0.005	mg/L
Ortho-Phosphate as P		<0.05	<0.0500	<0.0500	<0.05			0.05	0.0247	mg/L
pH	7.78	7.22	7.34	7.82	7.71					pH units
Phosphorus, Total	<0.05	<0.05	<0.0500	<0.0500	<0.05			0.05	0.00904	mg P/L
Total Dissolved Solids	275	320	410	145	95		500	10		mg/L
Sulfate	127	158	241	8.2	10.3		250	5	0.762	mg/L
Sulfide		<0.05	<0.05	0.053	<0.05			0.05	0.0258	mg/L
Total Organic Carbon		0.538	0.576	<0.500	0.576			0.5	0.135	mg/L
Dissolved Organic Carbon		<0.5	<0.5	<0.500	<0.5			0.5	0.135	mg/L
Turbidity		0.04	0.16	1.18	0.76			0.01		NTU
Inorganics										
Aluminum	<0.05	<0.05	<0.05	0.063	<0.05		0.05 to 0.2	0.05	0.022	mg/L
Asbestos		ND		ND		7 Million				Fibers/liter (Longer than 10 µm)
Iron	<0.05	<0.05	<0.05	<0.050	<0.05		0.3	0.05	0.016	mg/L
Silica (SiO2)		6.97	7.31	5.91	5.66			1.07	0.0678	mg/L
Silicon		3.26	3.42	2.76	2.65			0.5	0.032	mg/L
Sodium	3.72	3.77	4.89	3.11	2.91			1	0.174	mg/L
Antimony		<0.0020	<0.002	<0.0020	<0.002	0.006		0.002	0.0007	mg/L
Arsenic	<0.0010	<0.0010	<0.001	<0.0010	<0.001	0.01		0.001	0.0002	mg/L
Barium	0.0657	0.065	0.0953	0.0377	0.0412	2		0.0005	0.00009	mg/L
Beryllium		<0.0005	<0.0005	<0.0005	<0.0005	0.004		0.0005	0.0002	mg/L
Cadmium	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.005		0.0005	0.0001	mg/L
Chromium	<0.0020	<0.0020	<0.002	<0.0020	<0.002	0.1		0.002	0.0007	mg/L
Copper	<0.0020	<0.0020	0.0013	<0.0005	0.0012		1	0.002	0.0007	mg/L
Lead	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			0.0005	0.0001	mg/L
Manganese	<0.0020	<0.0020	<0.002	<0.0020	<0.002		0.05	0.002	0.0007	mg/L
Nickel	0.0031	0.002	0.0057	0.0007	0.0014			0.0005	0.0004	mg/L
Selenium	<0.0010	<0.0010	<0.001	<0.0010	<0.001	0.05		0.001	0.0006	mg/L
Silver		<0.0005	<0.0005	<0.0005	<0.0005		0.10	0.0005	0.0002	mg/L
Thallium		<0.0005	<0.0005	<0.0005	<0.0005	0.002		0.0005	0.0002	mg/L
Zinc	<0.0100	<0.0100	<0.01	<0.0100	<0.01		5	0.01	0.0016	mg/L
Mercury		<0.0002	<0.0002	<0.0002	<0.0002	0.002		0.0002	0.00001	mg/L
Organic Compounds										
Dichlorodifluoromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.121	ug/L
Chloromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.072	ug/L
Vinyl chloride		<0.500	<0.500	<0.500	<0.500	0.002		0.5	0.148	ug/L
Bromomethane		<0.500	<0.500	<0.500	<0.500			0.5	0.095	ug/L
Chloroethane		<0.500	<0.500	<0.500	<0.500			0.5	0.182	ug/L
Trichlorofluoromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.277	ug/L
1,1-Dichloroethene		<0.500	<0.500	<0.500	<0.500			0.5	0.396	ug/L
Methylene chloride		<0.500	<0.500	<0.500	<0.500			0.5	0.455	ug/L
trans-1,2-Dichloroethene		<0.500	<0.500	<0.500	<0.500			0.5	0.152	ug/L
1,1-Dichloroethane		<0.500	<0.500	<0.500	<0.500			0.5	0.119	ug/L
cis-1,2-Dichloroethene		<0.500	<0.500	<0.500	<0.500	0.07		0.5	0.085	ug/L
2,2-Dichloropropane		<0.500	<0.500	<0.500	<0.500			0.5	0.219	ug/L
Bromochloromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.117	ug/L
Chloroform		<0.500	<0.500	<0.500	<0.500			0.5	0.057	ug/L
Carbon tetrachloride		<0.500	<0.500	<0.500	<0.500	0.005		0.5	0.115	ug/L
1,1,1-Trichloroethane		<0.500	<0.500	<0.500	<0.500	0.2		0.5	0.104	ug/L
1,1-Dichloropropene		<0.500	<0.500	<0.500	<0.500			0.5	0.127	ug/L
Benzene		<0.500	<0.500	<0.500	<0.500	0.005		0.5	0.09	ug/L
1,2-Dichloroethane		<0.500	<0.500	<0.500	<0.500	0.005		0.5	0.073	ug/L
Trichloroethene		<0.500	<0.500	<0.500	<0.500			0.5	0.105	ug/L
Dibromoethane		<0.500	<0.500	<0.500	<0.500			0.5	0.068	ug/L
1,2-Dichloropropane		<0.500	<0.500	<0.500	<0.500	0.005		0.5	0.05	ug/L
Bromodichloromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.098	ug/L
cis-1,3-Dichloropropene		<0.500	<0.500	<0.500	<0.500			0.5	0.047	ug/L
Toluene		<0.500	<0.500	<0.500	<0.500	1		0.5	0.147	ug/L
Tetrachloroethene		<0.500	<0.500	<0.500	<0.500			0.5	0.111	ug/L
trans-1,3-Dichloropropene		<0.500	<0.500	<0.500	<0.500			0.5	0.119	ug/L
1,1,2-Trichloroethane		<0.500	<0.500	<0.500	<0.500	0.005		0.5	0.109	ug/L
Dibromochloromethane		<0.500	<0.500	<0.500	<0.500			0.5	0.084	ug/L
1,3-Dichloropropane		<0.500	<0.500	<0.500	<0.500			0.5	0.067	ug/L
Chlorobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.088	ug/L
Ethylbenzene		<0.500	<0.500	<0.500	<0.500	0.07		0.5	0.07	ug/L
1,1,1,2-Tetrachloroethane		<0.500	<0.500	<0.500	<0.500			0.5	0.081	ug/L
m+p - Xylene		<1.00	<1.00	<1.00	<1.00			1	0.367	ug/L
o-Xylene		<0.500	<0.500	<0.500	<0.500			0.5	0.079	ug/L
Total Xylenes		<1.50	<0.500	<1.50	<0.500	10		1.5	0.446	ug/L
Bromoform		<0.500	<0.500	<0.500	<0.500			0.5	0.15	ug/L
Styrene		<0.500	<0.500	<0.500	<0.500	0.1		0.5	0.065	ug/L
Isopropyl benzene		<0.500	<0.500	<0.500	<0.500			0.5	0.06	ug/L
Bromobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.064	ug/L
n-Propyl benzene		<0.500	<0.500	<0.500	<0.500			0.5	0.061	ug/L

Sample Location:	Weehawken Spring Vault (WSV 1)			Weehawken Creek (WC 1)		Maximum Contaminant Level (MCL)	Secondary MCL	Lab Reporting Information		
Sample Date	9/28/2018	9/21/2020	3/24/2021	9/21/2020	3/24/2021			Reporting Limit	Method Detection Limit	Units
Analyte	Result	Result	Result	Result	Result					
1,1,2,2-Tetrachloroethane		<0.500	<0.500	<0.500	<0.500			0.5	0.168	ug/L
2-Chlorotoluene		<0.500	<0.500	<0.500	<0.500			0.5	0.084	ug/L
1,2,3-Trichloropropane		<0.500	<0.500	<0.500	<0.500			0.5	0.1	ug/L
1,3,5-Trimethylbenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.223	ug/L
4-Chlorotoluene		<0.500	<0.500	<0.500	<0.500			0.5	0.064	ug/L
tert-Butylbenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.081	ug/L
1,2,4-Trimethylbenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.254	ug/L
sec-Butylbenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.078	ug/L
p-Isopropyl toluene		<0.500	<0.500	<0.500	<0.500			0.5	0.094	ug/L
1,3-Dichlorobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.051	ug/L
1,4-Dichlorobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.118	ug/L
n-Butylbenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.056	ug/L
1,2-Dichlorobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.071	ug/L
Hexachlorobutadiene		<0.500	<0.500	<0.500	<0.500			0.5	0.177	ug/L
1,2,4-Trichlorobenzene		<0.500	<0.500	<0.500	<0.500	0.07		0.5	0.116	ug/L
Naphthalene		<0.500	<0.500	<0.500	<0.500			0.5	0.14	ug/L
1,2,3-Trichlorobenzene		<0.500	<0.500	<0.500	<0.500			0.5	0.109	ug/L
Field Parameters										
pH		7.73		8.37						pH units
Temperature		41.9		46.0						Fahrenheit
TDS		258		90						mg/L

Note: Blank value indicates water sample not analyzed for this analyte.

Table 9
Loan Amortization Schedule
Preferred Alternative No. 3
City of Ouray Raw Water Supply Pipeline Project

Initial Loan Terms	
Principal Amount	\$750,000
Service Fee	\$7,500
Total Loan Amount	\$757,500
Interest Rate	2.15%
Term	30
First payment Year	2023
Annual Payment	\$34,524
Total Interest Paid	\$278,217

Loan Term Notes:

The assumed Interest Rate is based on recommendation from CWCBC dated 5/10/2022, and at the time of the recommendation represented the current middle-income interest rate. The interest rate will likely continue to climb since it is based on the market rate averaged over the past 6 months.

Year	Interest	Principle	Balance
	(\$)	(\$)	(\$)
2023	\$16,286	\$18,238	\$739,262
2024	\$15,894	\$18,630	\$720,633
2025	\$15,494	\$19,030	\$701,602
2026	\$15,084	\$19,439	\$682,163
2027	\$14,667	\$19,857	\$662,306
2028	\$14,240	\$20,284	\$642,021
2029	\$13,803	\$20,720	\$621,301
2030	\$13,358	\$21,166	\$600,135
2031	\$12,903	\$21,621	\$578,514
2032	\$12,438	\$22,086	\$556,428
2033	\$11,963	\$22,561	\$533,867
2034	\$11,478	\$23,046	\$510,822
2035	\$10,983	\$23,541	\$487,280
2036	\$10,477	\$24,047	\$463,233
2037	\$9,960	\$24,564	\$438,669
2038	\$9,431	\$25,093	\$413,576
2039	\$8,892	\$25,632	\$387,944
2040	\$8,341	\$26,183	\$361,761
2041	\$7,778	\$26,746	\$335,015
2042	\$7,203	\$27,321	\$307,694
2043	\$6,615	\$27,908	\$279,785
2044	\$6,015	\$28,508	\$251,277
2045	\$5,402	\$29,121	\$222,156
2046	\$4,776	\$29,748	\$192,408
2047	\$4,137	\$30,387	\$162,021
2048	\$3,483	\$31,040	\$130,980
2049	\$2,816	\$31,708	\$99,273
2050	\$2,134	\$32,390	\$66,883
2051	\$1,438	\$33,086	\$33,797
2052	\$727	\$33,797	\$0

Table 10
Schedule of Revenue and Expenditures Projections
CWCB Loan Feasibility Study
City of Ouray Raw Water Supply Pipeline Project

Assumptions

Revenue Sources	
Current Water Rate Summary per EQR	
Base	\$32.05
CIP	\$15.37
Service	\$1.50
Total Water Rate per Month	\$48.92
Tap Fee Charge	\$7,500.00
15% Tax on Short-Term Rental	\$100,000.00

Loan and Future Assumptions	
Total Loan Amount	\$757,500
Inflation	3.22%
Interest on Reserves	3.00%
Estimated EQR payment Delinquency %	31%
2021 EQR's	1,372
EQR Growth Rate	0.60%
Tap Growth Per Year	8

Financing

Source	Share	Principal	Interest	Years
CWCB loan	100%	\$757,500.00	2.15%	30

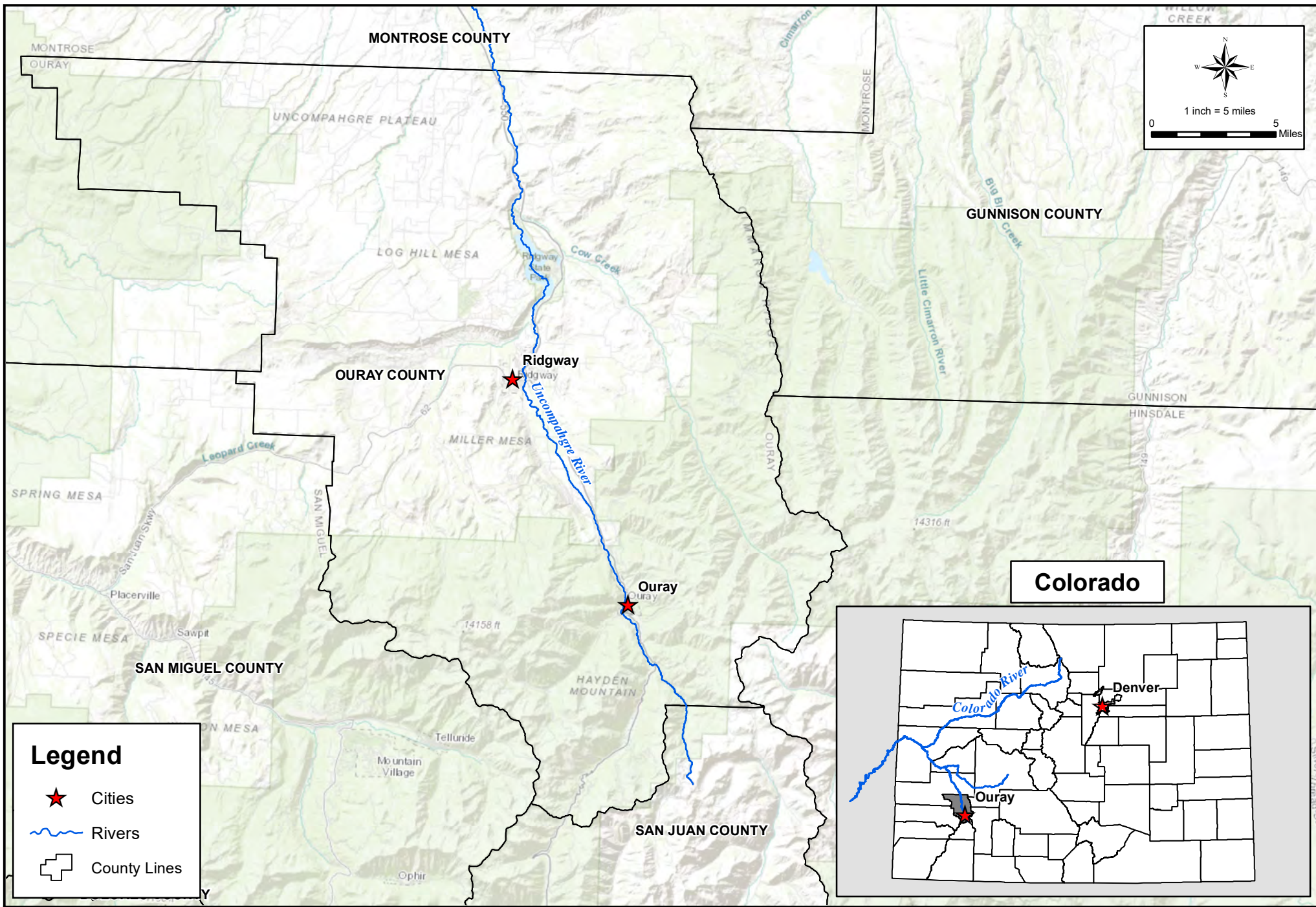
Annual Revenue

Year of Operation	EQR Count	Annual Tap Growth	Water Rate	15% Rental Tax	Annual Water Fund Revenue	Capital Investment Fee Revenue (Tap Fees)	Total Revenue
1	1372	8	\$48.92	\$100,000	\$655,788	\$60,000	\$715,788
2	1380	8	\$48.92	\$100,000	\$659,122	\$60,000	\$719,122
3	1389	8	\$48.92	\$100,000	\$662,477	\$60,000	\$722,477
4	1397	8	\$48.92	\$100,000	\$665,852	\$60,000	\$725,852
5	1405	8	\$48.92	\$100,000	\$669,247	\$60,000	\$729,247
6	1414	8	\$48.92	\$100,000	\$672,663	\$60,000	\$732,663
7	1422	8	\$48.92	\$100,000	\$676,099	\$60,000	\$736,099
8	1431	8	\$48.92	\$100,000	\$679,555	\$60,000	\$739,555
9	1439	8	\$48.92	\$100,000	\$683,032	\$60,000	\$743,032
10	1448	8	\$48.92	\$100,000	\$686,531	\$60,000	\$746,531
11	1457	8	\$48.92	\$100,000	\$690,050	\$60,000	\$750,050
12	1465	8	\$48.92	\$100,000	\$693,590	\$60,000	\$753,590
13	1474	8	\$48.92	\$100,000	\$697,152	\$60,000	\$757,152
14	1483	8	\$48.92	\$100,000	\$700,735	\$60,000	\$760,735
15	1492	8	\$48.92	\$100,000	\$704,339	\$60,000	\$764,339
16	1501	8	\$48.92	\$100,000	\$707,965	\$60,000	\$767,965
17	1510	8	\$48.92	\$100,000	\$711,613	\$60,000	\$771,613
18	1519	8	\$48.92	\$100,000	\$715,282	\$60,000	\$775,282
19	1528	8	\$48.92	\$100,000	\$718,974	\$60,000	\$778,974
20	1537	8	\$48.92	\$100,000	\$722,688	\$60,000	\$782,688
21	1547	8	\$48.92	\$100,000	\$726,424	\$60,000	\$786,424
22	1556	8	\$48.92	\$100,000	\$730,183	\$60,000	\$790,183
23	1565	8	\$48.92	\$100,000	\$733,964	\$60,000	\$793,964
24	1575	8	\$48.92	\$100,000	\$737,768	\$60,000	\$797,768
25	1584	8	\$48.92	\$100,000	\$741,594	\$60,000	\$801,594
26	1593	8	\$48.92	\$100,000	\$745,444	\$60,000	\$805,444
27	1603	8	\$48.92	\$100,000	\$749,316	\$60,000	\$809,316
28	1613	8	\$48.92	\$100,000	\$753,212	\$60,000	\$813,212
29	1622	8	\$48.92	\$100,000	\$757,132	\$60,000	\$817,132
30	1632	8	\$48.92	\$100,000	\$761,074	\$60,000	\$821,074
Totals					\$21,208,864	\$1,800,000	\$23,008,864

Annual Expenditures

Year of Operation	Baseline Water Operating Expenses	CWCB Reserve Fund		Payments on CWCB Loan	Interest on Reserve Funds	Total Expenditures
		Annual	Accum.			
1	\$500,000	\$3,452	\$3,452	\$34,524	\$103.57	\$537,873
2	\$516,100	\$3,452	\$6,905	\$34,524	\$207.14	\$553,869
3	\$532,718	\$3,452	\$10,357	\$34,524	\$310.71	\$570,384
4	\$549,872	\$3,452	\$13,810	\$34,524	\$414.29	\$587,434
5	\$567,578	\$3,452	\$17,262	\$34,524	\$517.86	\$605,036
6	\$585,854	\$3,452	\$20,714	\$34,524	\$621.43	\$623,209
7	\$604,718	\$3,452	\$24,167	\$34,524	\$725.00	\$641,970
8	\$624,190	\$3,452	\$27,619	\$34,524	\$828.57	\$661,338
9	\$644,289	\$3,452	\$31,071	\$34,524	\$932.14	\$681,333
10	\$665,035	\$3,452	\$34,524	\$34,524	\$1,035.72	\$701,976
11	\$686,449		\$34,524	\$34,524	\$1,035.72	\$719,938
12	\$708,553		\$34,524	\$34,524	\$1,035.72	\$742,041
13	\$731,369		\$34,524	\$34,524	\$1,035.72	\$764,857
14	\$754,919		\$34,524	\$34,524	\$1,035.72	\$788,407
15	\$779,227		\$34,524	\$34,524	\$1,035.72	\$812,715
16	\$804,318		\$34,524	\$34,524	\$1,035.72	\$837,806
17	\$830,217		\$34,524	\$34,524	\$1,035.72	\$863,705
18	\$856,950		\$34,524	\$34,524	\$1,035.72	\$890,438
19	\$884,544		\$34,524	\$34,524	\$1,035.72	\$918,032
20	\$913,026		\$34,524	\$34,524	\$1,035.72	\$946,514
21	\$942,426		\$34,524	\$34,524	\$1,035.72	\$975,914
22	\$972,772		\$34,524	\$34,524	\$1,035.72	\$1,006,260
23	\$1,004,095		\$34,524	\$34,524	\$1,035.72	\$1,037,583
24	\$1,036,427		\$34,524	\$34,524	\$1,035.72	\$1,069,915
25	\$1,069,800		\$34,524	\$34,524	\$1,035.72	\$1,103,288
26	\$1,104,247		\$34,524	\$34,524	\$1,035.72	\$1,137,736
27	\$1,139,804		\$34,524	\$34,524	\$1,035.72	\$1,173,292
28	\$1,176,506		\$34,524	\$34,524	\$1,035.72	\$1,209,994
29	\$1,214,389		\$34,524	\$34,524	\$1,035.72	\$1,247,877
30	\$1,253,493		\$34,524	\$34,524	\$1,035.72	\$1,286,981
Totals	\$24,653,885	\$34,524		\$1,035,717	\$26,411	\$25,697,715

FIGURES



Date: 3/11/2021 Document Path: P:\051-036\Mapping\Figure 1 - Location Map.mxd

User Name: boliver



Wright Water Engineers, Inc.
1666 N. Main Ave., Ste. C
Durango, CO 81301
(970) 259-7411 ph 259-8758 fx

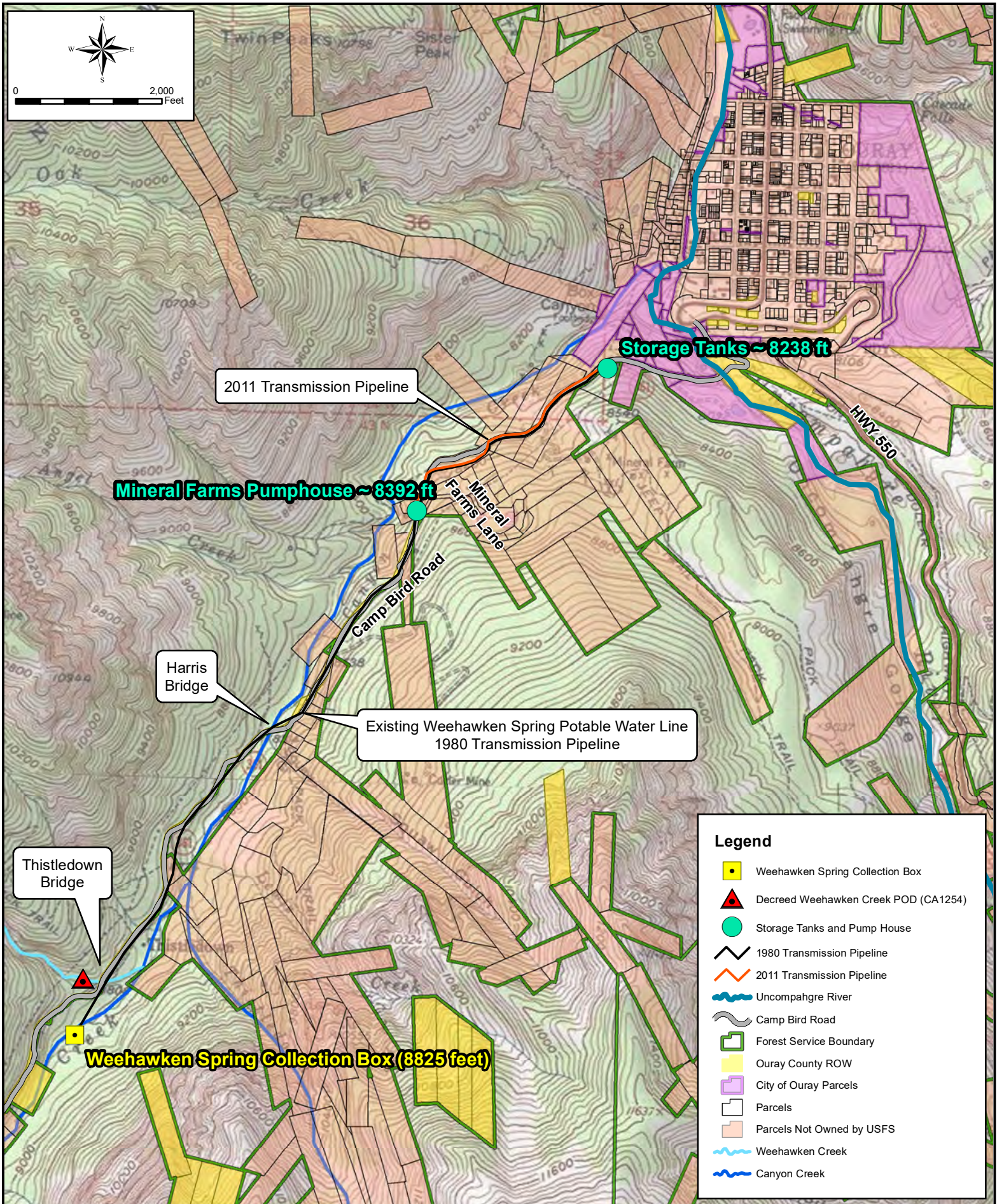
OURAY COUNTY, CO

CITY OF OURAY

CITY OF OURAY

PROJECT NO.
051-036.000

FIGURE
1



Date: 10/14/2021 Document Path: P:\051-036\000 Water Right Inventory\Mapping\Figure 2 - City of Ouray Water Transmission System.mxd

User Name: T Downing



Wright Water Engineers, Inc.
1666 N. Main Ave., Ste. C
Durango, CO 81301
(970) 259-7411 ph 259-8758 fx

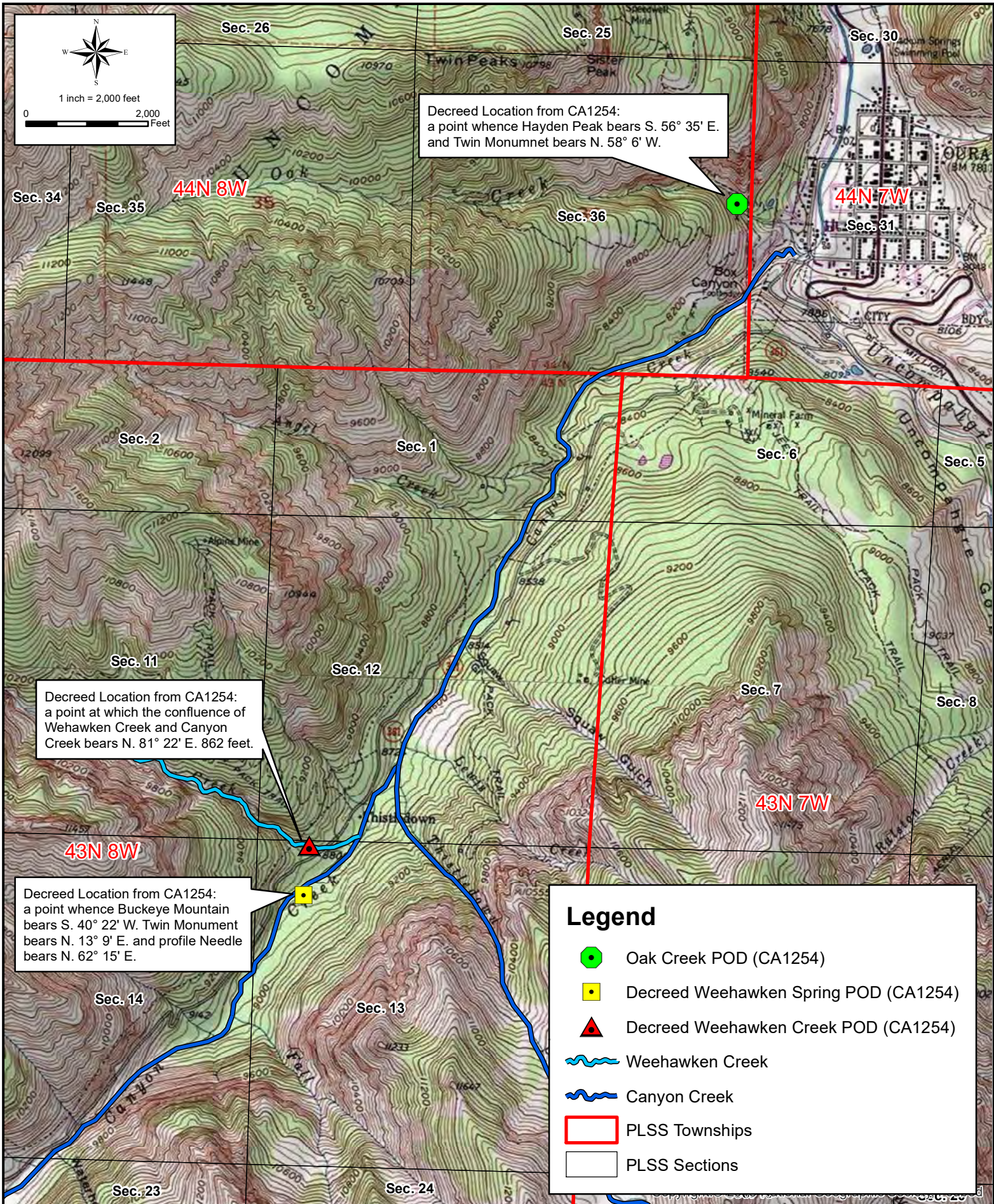
OURAY COUNTY, COLORADO

CITY OF OURAY WATER TRANSMISSION SYSTEM

CITY OF OURAY

PROJECT NO.
051-036.000

FIGURE
2



Date: 10/8/2021 Document Path: P:\051-036\000 Water Right Inventory\Mapping\Planning Maps 2021\Figure 3 - Decreed POD Locations.mxd

User Name: TDowning



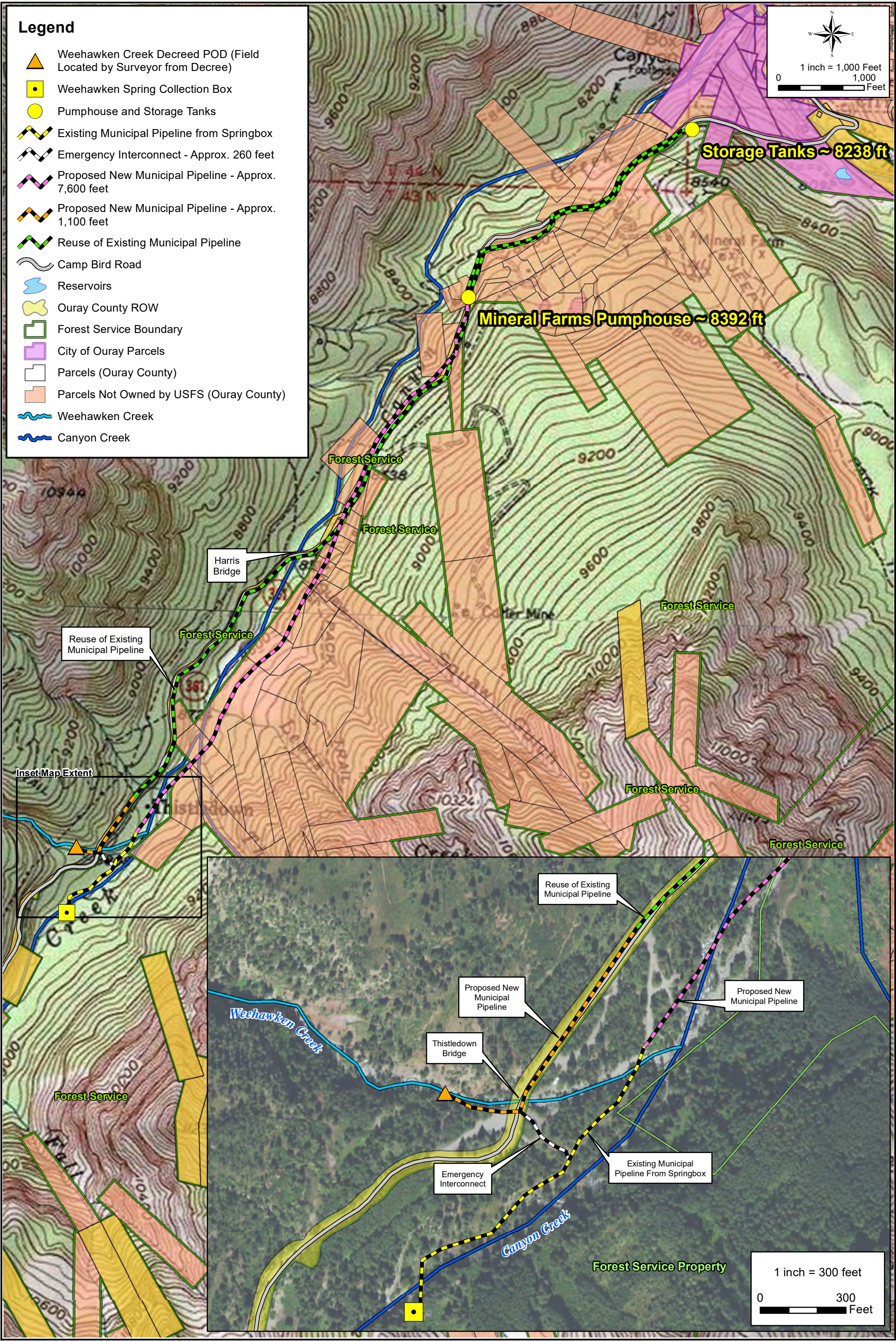
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1666 N. Main Ave., Ste C
Durango, CO 81301
(970) 259-7411 ph 259-8758 fx

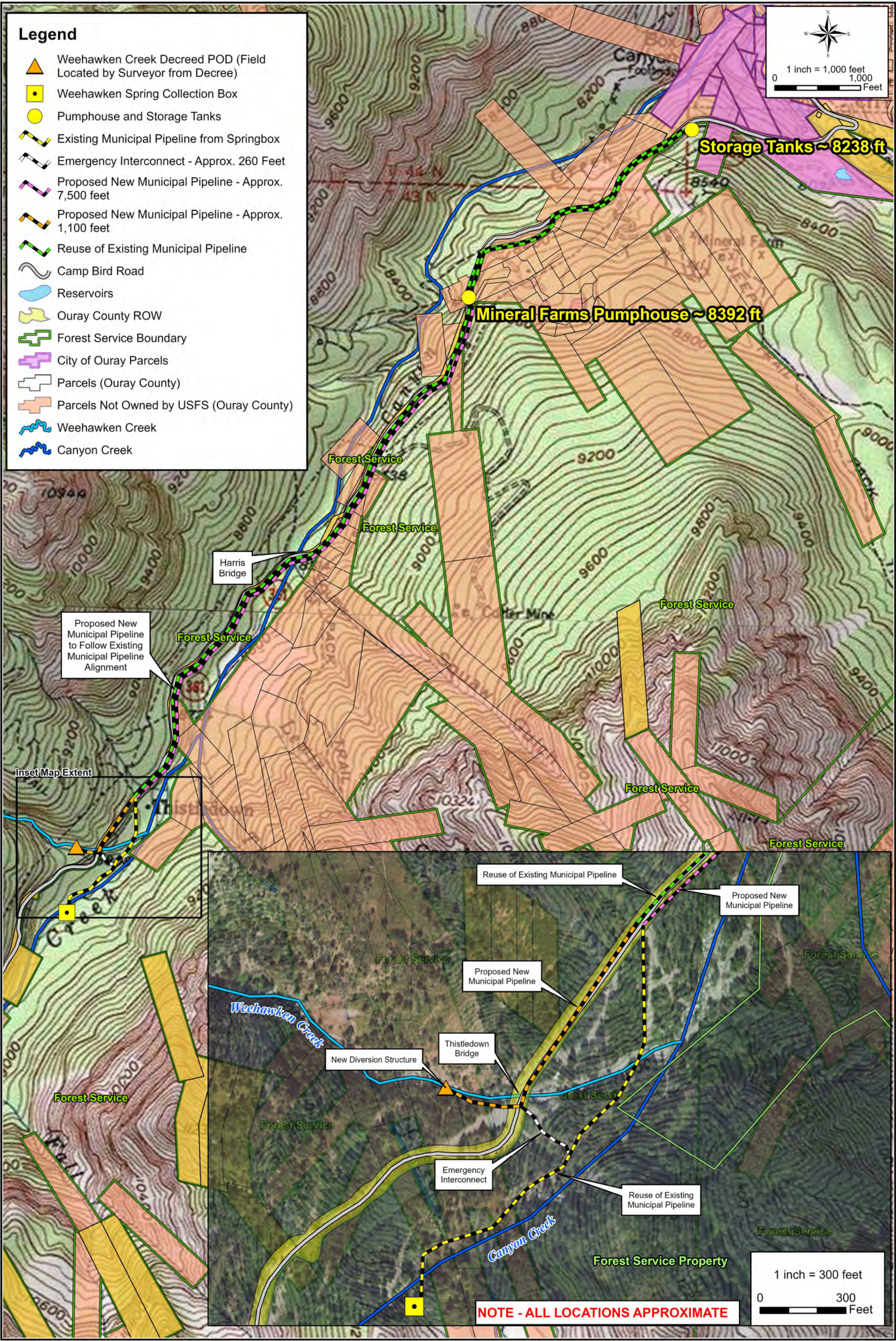
OURAY COUNTY, CO
**DECREEED POINTS OF DIVERSION FOR
SELECT CITY OF OURAY WATER RIGHTS**

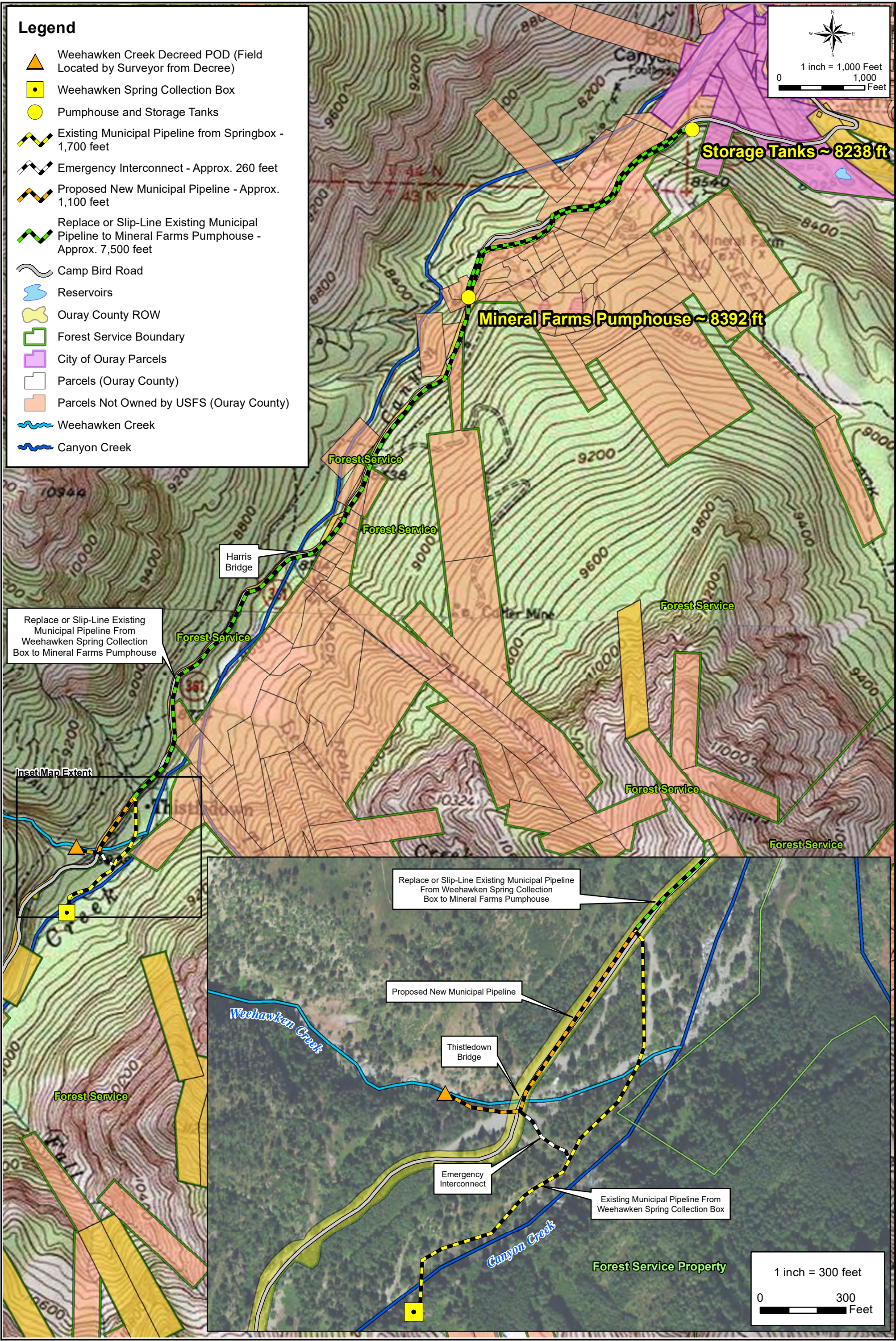
CITY OF OURAY

PROJECT NO.
051-036.000

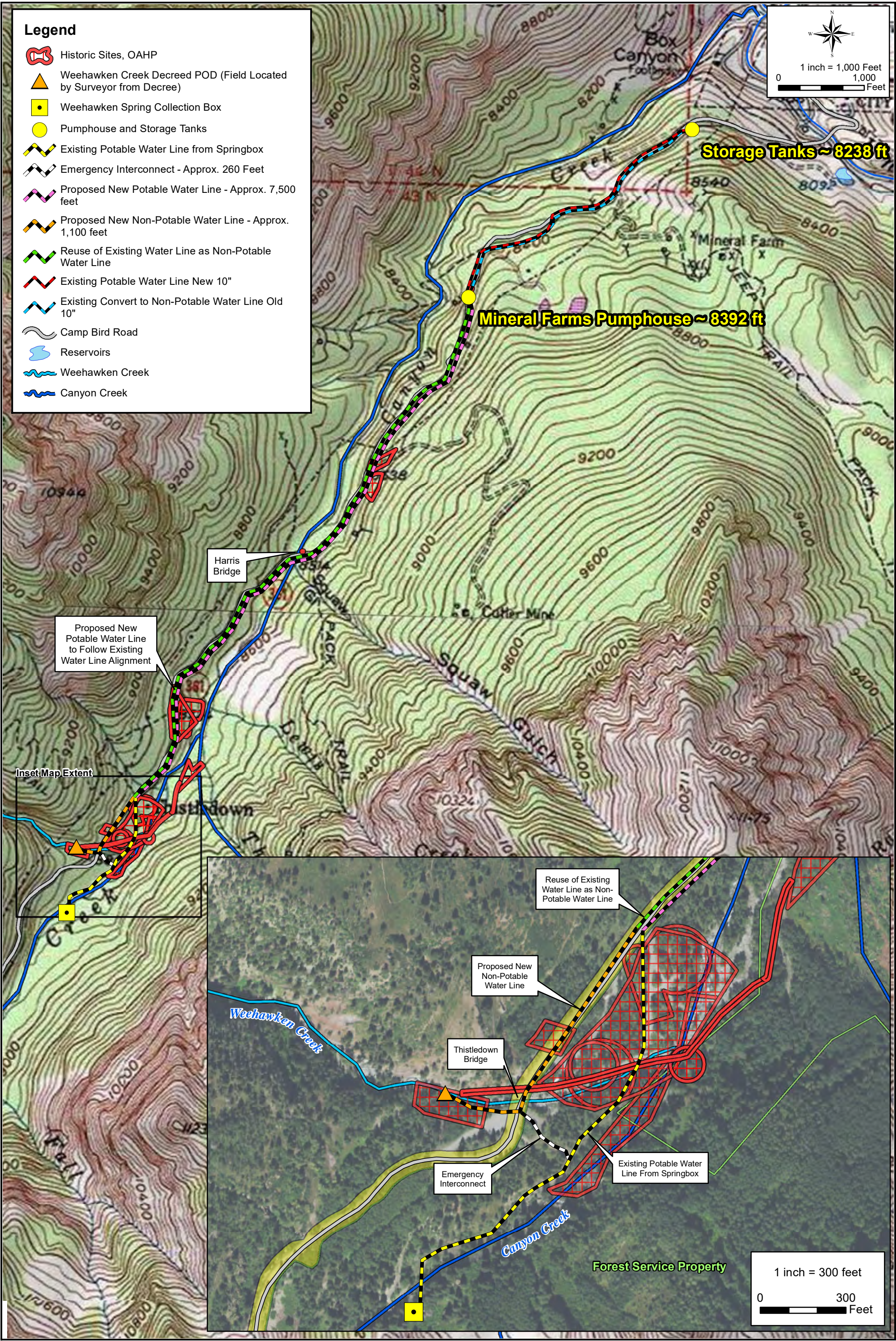
FIGURE
3







Date: 10/22/2021 Document Path: P:\051-036\140 Ice Park OIP\Mapping\October 2021 Maps\Figure 6 - Alternative No. 4.mxd User Name: TDowning

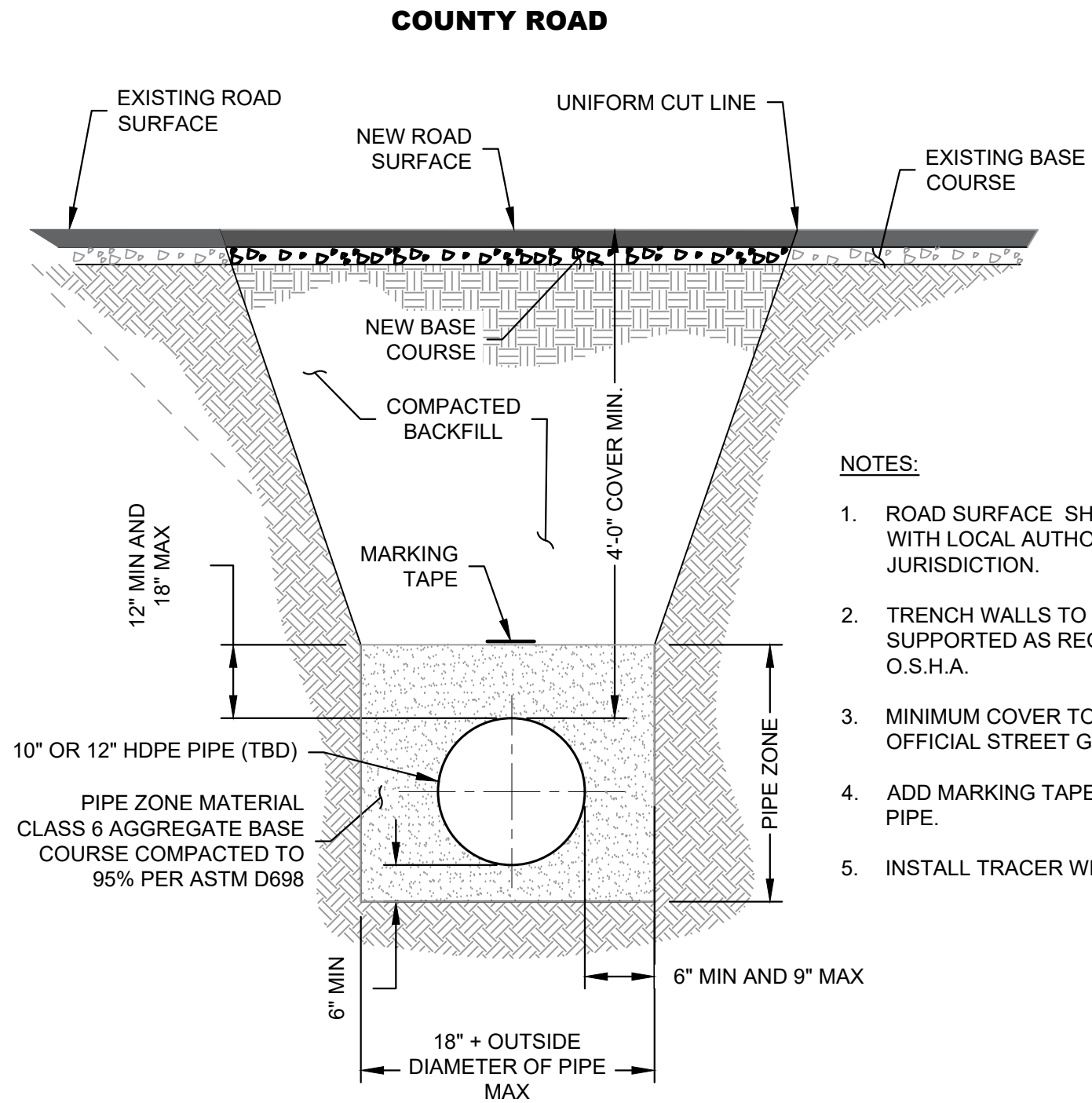


Date: 10/8/2021 Document Path: P:\051-036\140 Ice Park OIP\Mapping\October 2021 Maps\Figure 7 - OAHP Sites.mxd User Name: TDowning

APPENDICES

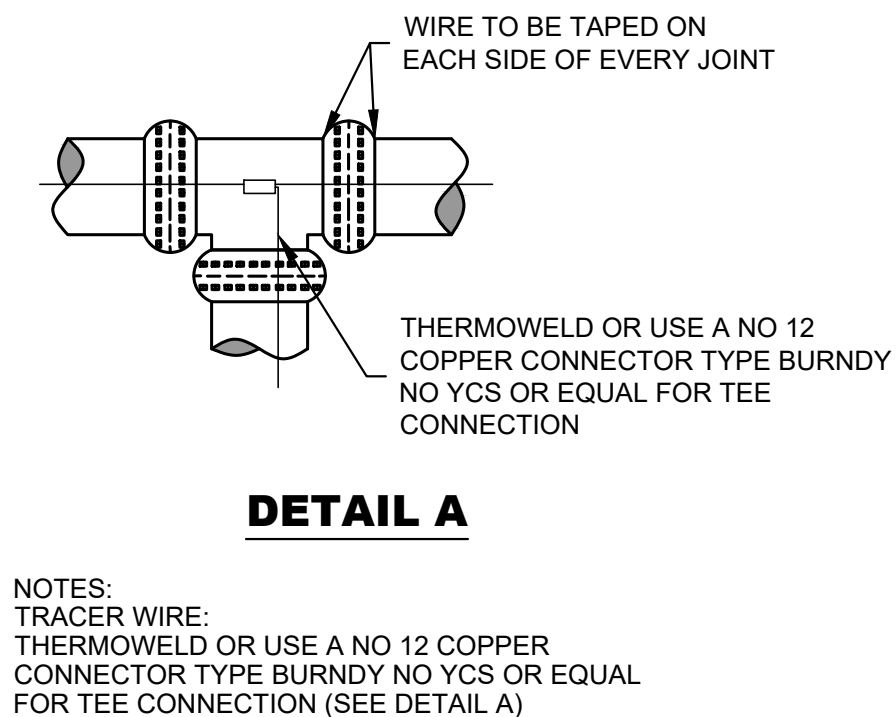
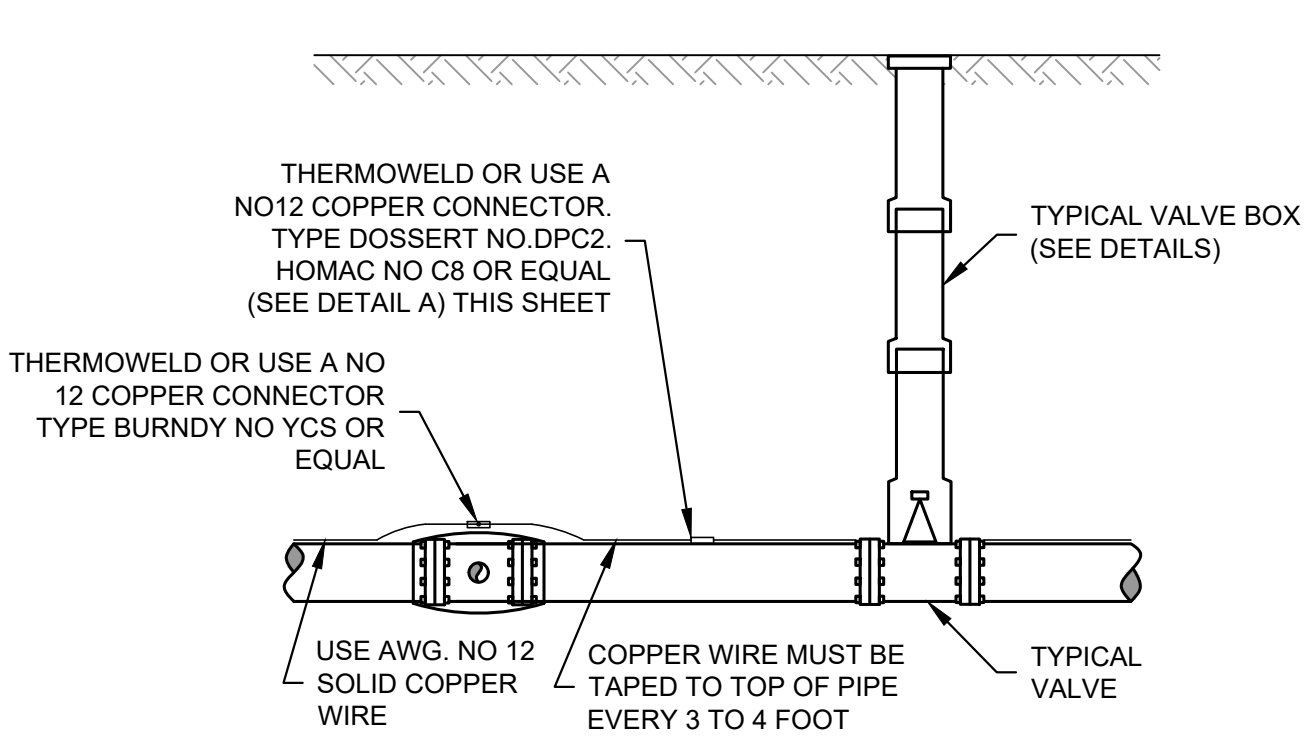
Appendix A.

Conceptual Design Plans for City of Ouray Raw Water Supply Pipeline Project

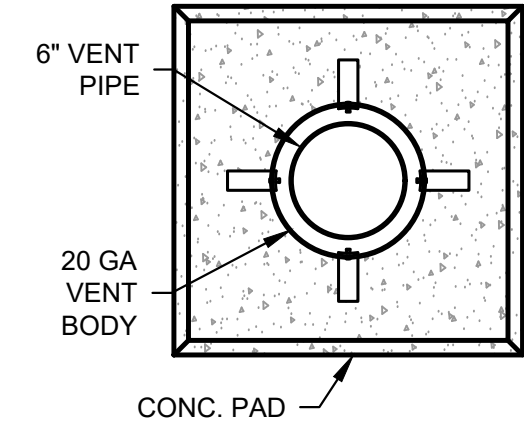
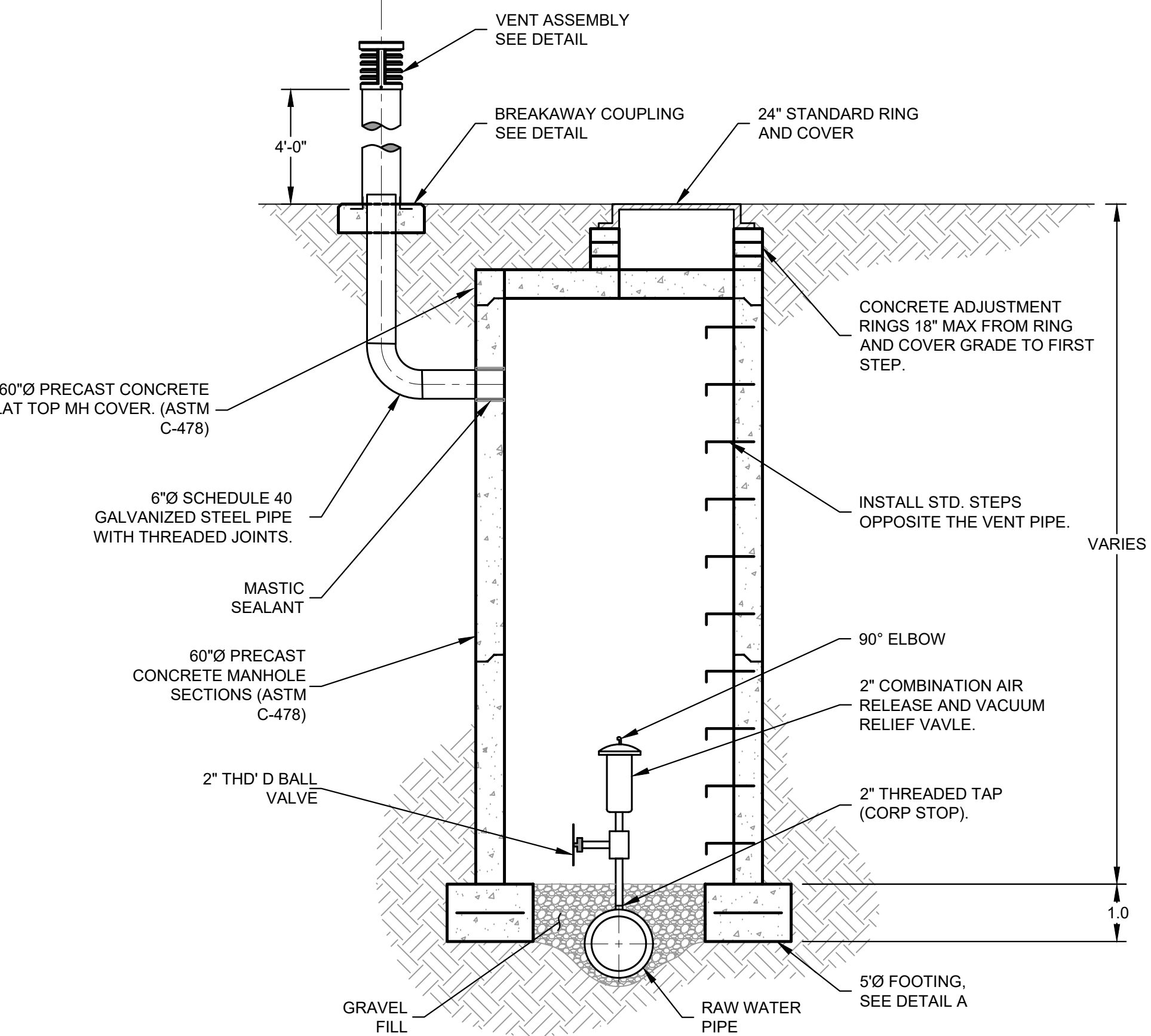


- NOTES:
1. ROAD SURFACE SHALL COMPLY WITH LOCAL AUTHORITY JURISDICTION.
 2. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY O.S.H.A.
 3. MINIMUM COVER TO BE BELOW OFFICIAL STREET GRADE.
 4. ADD MARKING TAPE 12" ABOVE PIPE.
 5. INSTALL TRACER WIRE ON PIPE.

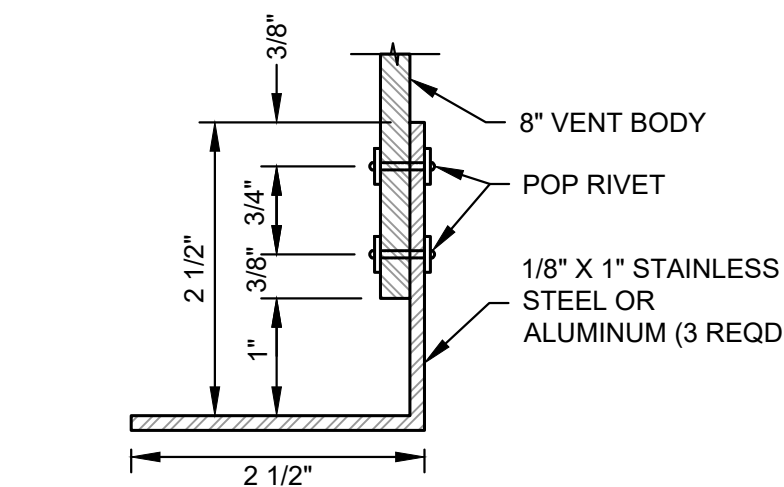
1
D1
TYPICAL TRENCH SECTION
NOT TO SCALE



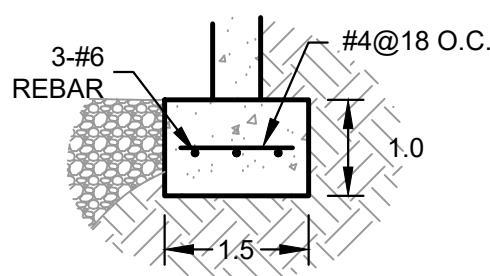
3
D1
TRACER WIRE
NOT TO SCALE



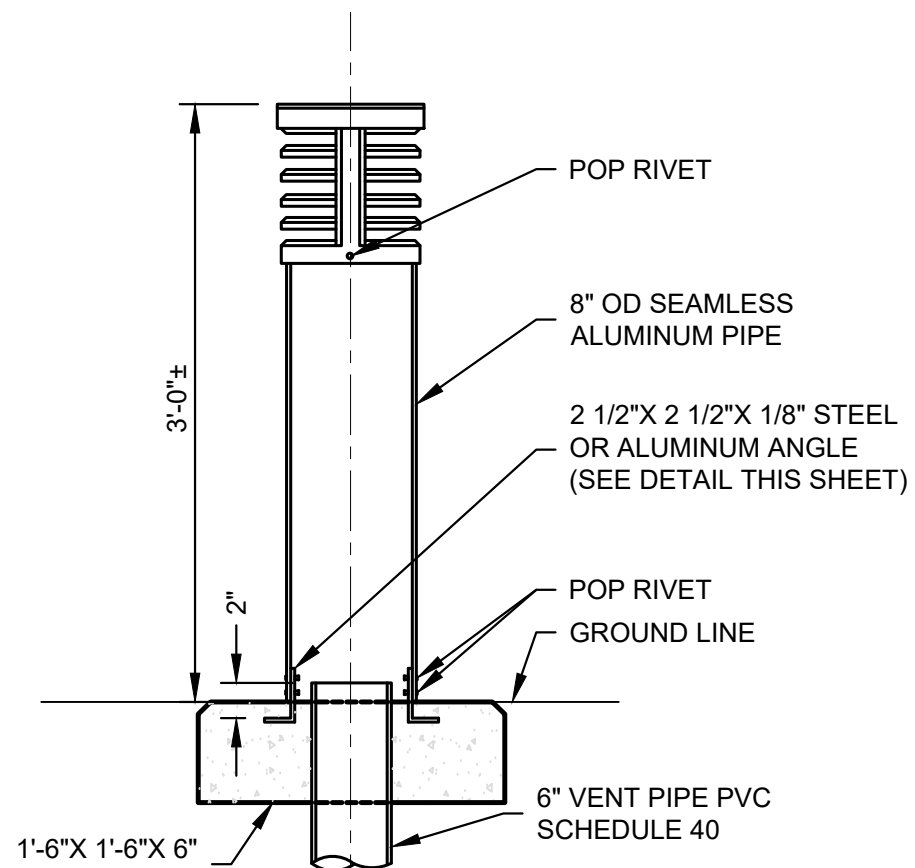
BASE DETAIL



STEEL OR ALUMINUM
ANGLE DETAIL



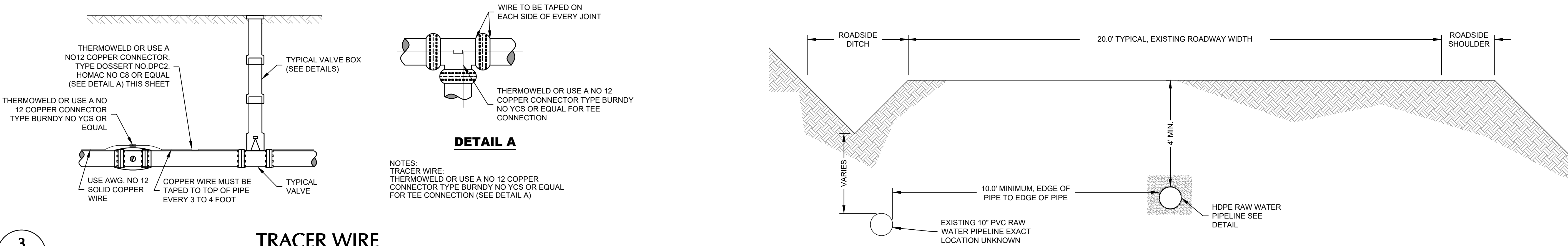
DETAIL A



ROUND VENT SCREEN

- NOTES:
- COLOR SHALL BE OLIVE GREEN OR FLAT BLACK TO MATCH SURROUNDINGS PAINTED WITH LIQUID EPOXY 8 MILS DRY FILM THICKNESS MINIMUM.

AIR / VACUUM VAULT DETAIL
NOT TO SCALE



4
D1
MINIMUM PIPELINE SEPARATION
NOT TO SCALE

PRELIMINARY
COORDINATION
SET

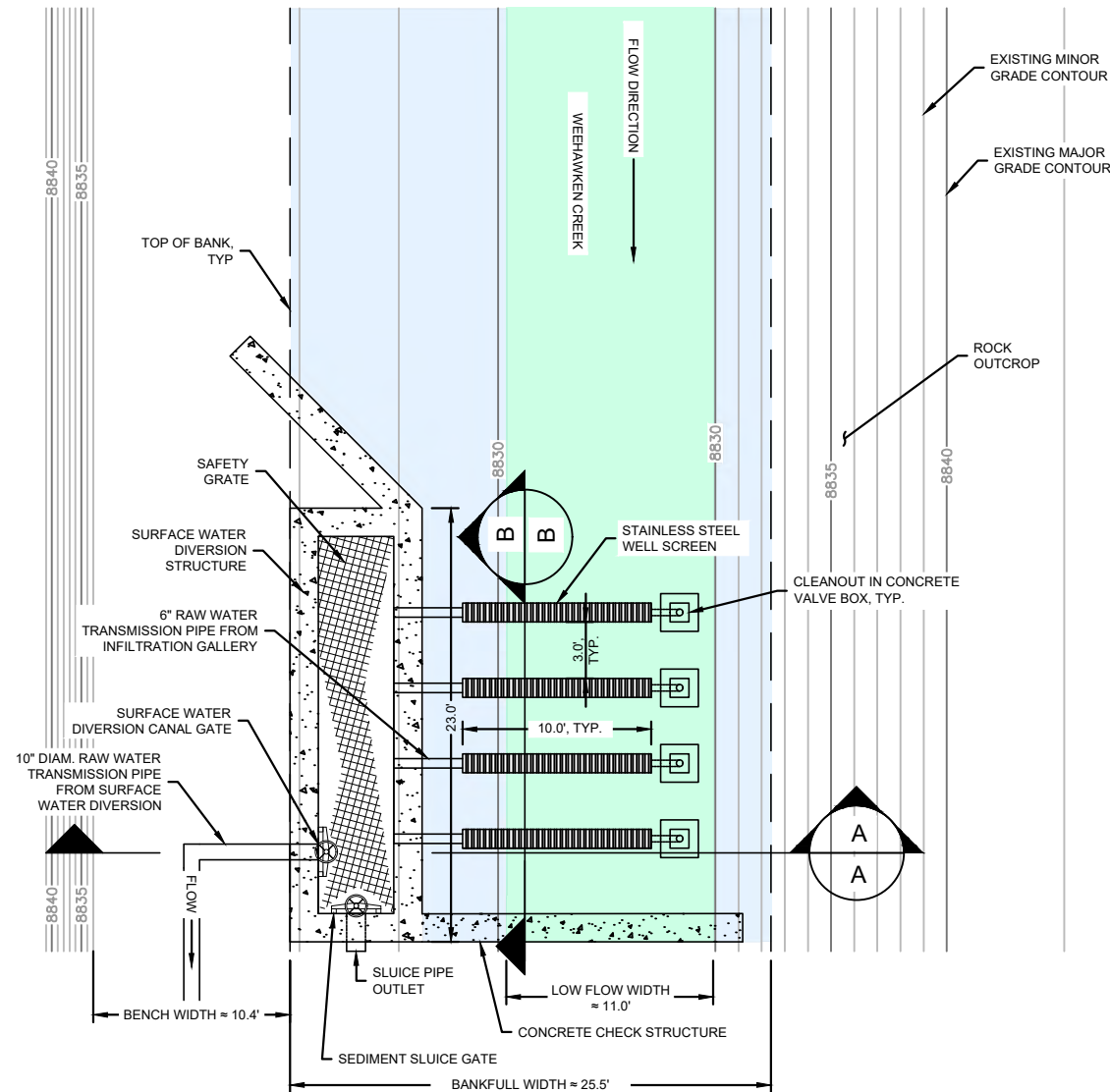
CONCEPTUAL
NOT FOR
CONSTRUCTION

DRAFT
WORK
IN PROGRESS

NO.	BY	DATE	DESCRIPTION	COMMENTS
1				
2				
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4				
5				
6				
7				
8				
9				
10				

DESIGN	DATE
DETAIL	MM/DD/YY
CHECK	MM/DD/YY
APPROVAL	MM/DD/YY
SCALE	SHOWN
01 DETAILS.dwg	

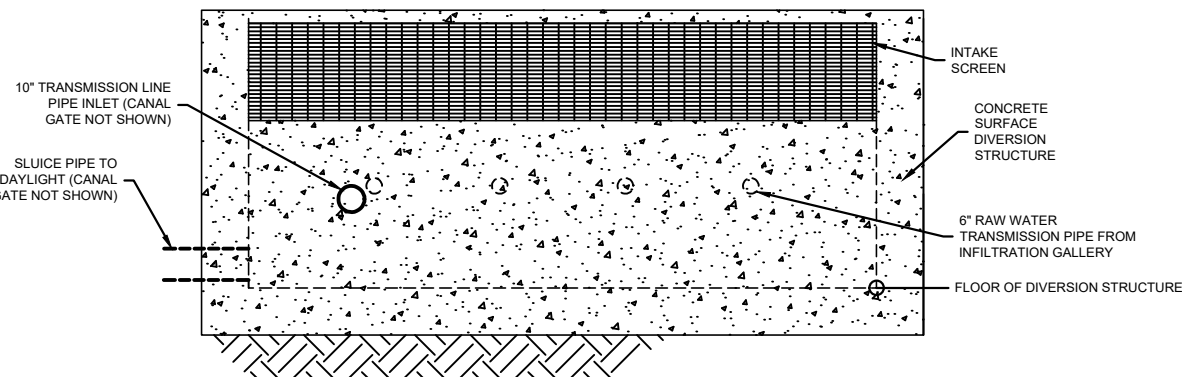
Plot Date/Time: 10/05/2021, 03:29:41 PM; P:\051-036\140 ICE PARK OIP\CAD\01 CAD\B_WWE-DWG\02 WEEHAWKEN CREEK DIVERSION DETAILS.DWG-02 WEEHAWKEN CREEK DIVERSION DETAILS OPTION 2



1
02

WEEHAWKEN DIVERSION STRUCTURE PLAN

5 0 5 10 FT



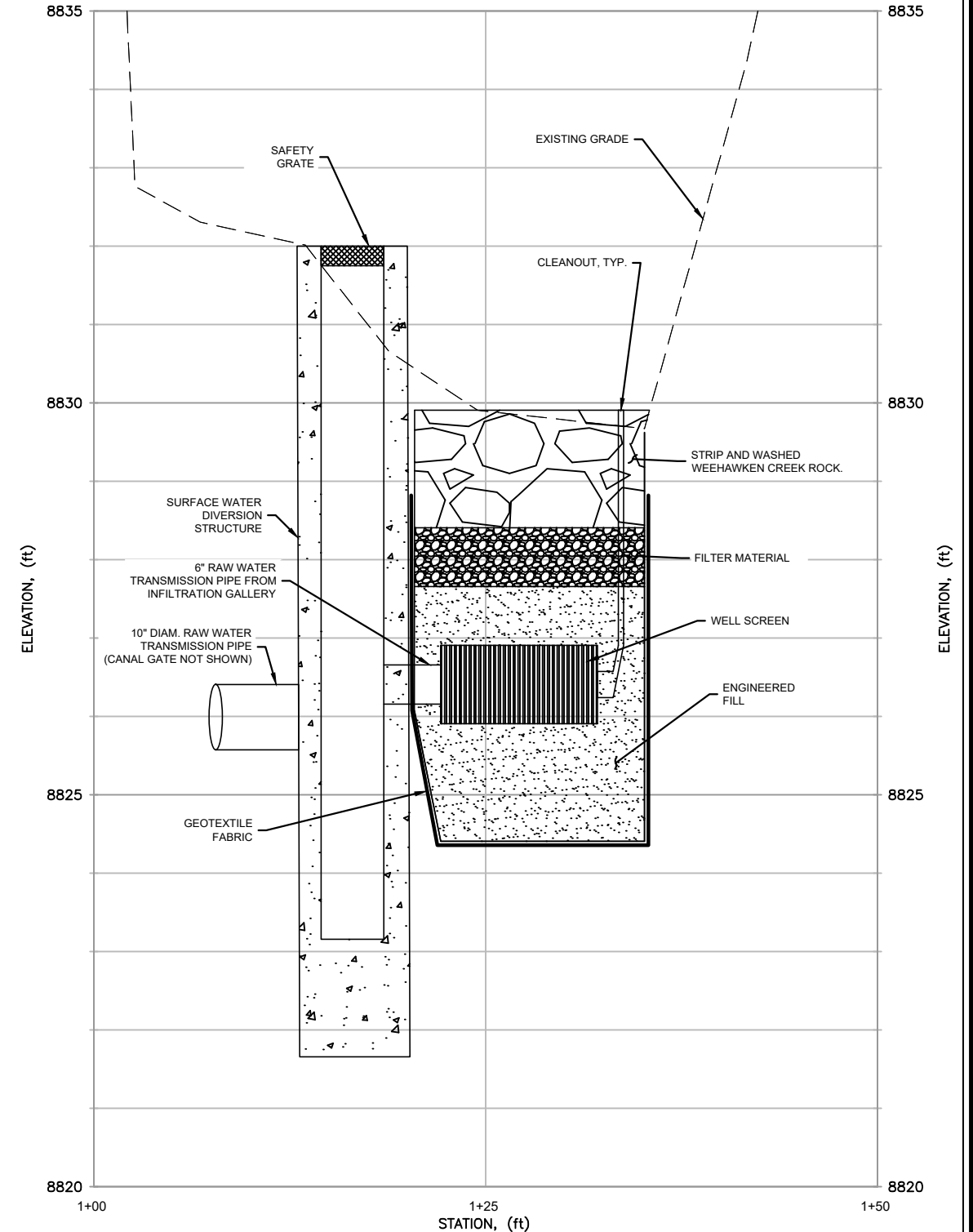
B-B
02

SECTION B-B

3 0 3 6 FT

CALL COLORADO
811
OR CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 3-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES

**DRAFT
WORK
IN PROGRESS**



A-A
02

SECTION A-A

5 0 5 10 FT 1 0 1 2 FT
HORIZONTAL VERTICAL

WWE **WRIGHT WATER ENGINEERS, INC.**
2490 W. 26TH AVE. SUITE 100A
DENVER, CO 80211
(303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION	COMMENTS
1				
2				
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9				
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DESIGN	DATE
	MM/DD/YY
DETAIL	DATE
	MM/DD/YY
CHECK	DATE
	MM/DD/YY
APPROVAL	DATE
	MM/DD/YY
SCALE	SHOWN
02 WEEHAWKEN CREEK DIVERSION DETAILS.DWG	

RAW WATER SUPPLY PIPELINE CITY OF OURAY

WEEHAWKEN CREEK DIVERSION DETAILS

JOB NO. -
REVISION NO. -
SHEET NO. **02**

INFILTRATION GALLERY DESIGN CALCULATION SHEET

Project Name: Weehawken Creek - Infiltration Gallery

Job Number: 051-036.141

Date: 2/5/2021

Design Flow (Q)

$$Q \text{ (gpm)} = \frac{450}{1.00} \text{ desired flow rate, existing pump vault}$$

$$Q \text{ (cfs)} = \frac{1.00}{1.00}$$

Required Length of Screen (L)

$$L \text{ (ft)} = \frac{528 (Q) \log(1.1d/r)}{0.25 K H}$$

Preferred Screen Diameter =	12.0	(in)	
Trench Depth (d) =	3.0	(ft)	
Depth of pipe below water level (H) =	3.0	(ft)	
Hydraulic Conductivity of filter pack (K) =	18000	(gpd/ft)	CO 1020 sand
Screen Radius (r) =	0.5	(ft)	
Factor of Safety (FS) =	3		

L =	14.4	(ft)	
Design Length (L*FS) =	43.3	(ft)	minimum length of screen for SF=5

Entrance Velocity (Ve) < 0.1 ft/sec

$$V_e \text{ (ft/sec)} = \frac{Q}{A \text{ (pipe screen)}}$$

Q =	1.00	(cfs)	
Screen Surface Area =	87.0	(in ² /ft)	(SS, 20-slot; 0.020 inches)
Total Screen Surface Area (A) =	26.1	(ft ²)	
Ve =	0.04	(ft/sec)	

Axial Velocity (Va) < 3 ft/sec

$$V_a \text{ (ft/sec)} = \frac{0.002228 (Q \text{ per screen})}{A \text{ (pipe)}}$$

Number of Screens =	4	
Length per Screen =	10.8	(ft)
Q per screen =	112.50	(gpm)
X-sectional Area of pipe =	0.7854	(sf)
Va =	0.32	(ft/sec)

Appendix B.

City of Ouray Special Use Permit (OUR101206) and Permit Renewal Application

Authorization ID: OUR101206
Contact ID: OURAY,CITY
Expiration Date: 12/31/2021
Use Code: 915, 922

**U.S. DEPARTMENT OF AGRICULTURE
Forest Service
SPECIAL USE PERMIT
AUTHORITY:**

FEDERAL LAND POLICY AND MGMT ACT, AS AMENDED October 21, 1976

CITY OF OURAY of , PO BOX 468, OURAY, CO 81427- (hereinafter called the Holder) is hereby authorized to use or occupy National Forest System lands, to use subject to the conditions set out below, on the Uncompahgre National Forest or Ouray Ranger District unit of the National Forest System.

This permit covers 8.9 acres and is described as: Sec. 13, T. 43 N., R. 8 W., NMPM, as shown on the location map attached to and made a part of this permit, and is issued for the purpose of:

Maintaining and operating a municipal water supply system, consisting of the improvements listed on a facility inventory, on file at the Ouray Ranger District Office, to collect, transport and store water from the collection box to the distribution line system within the City of Ouray.

Roads, pipelines and reservoirs as shown in Exhibit A, attached to and made a part of this permit, located in and crossing portions of Section 1, 12, and 13, T.43N., R.8W., NMPM, in Section 36, T.44N., R.8W., NMPM and in Section 31 of T.44N., R.7W., NMPM as more particularly shown on a map entitled "City of Ouray Water Supply System" by LMF dated 12/91, a copy of which is attached to and made a part hereof.

The above described or defined area shall be referred to herein as the "permit area".

TERMS AND CONDITIONS

I. AUTHORITY AND GENERAL TERMS OF THE PERMIT

A. Authority. This permit is issued pursuant to the authorities enumerated at Title 36, Code of Federal Regulations, Section 251 Subpart B, as amended. This permit, and the activities or use authorized, shall be subject to the terms and conditions of the Secretary's regulations and any subsequent amendment to them.

B. Authorized Officer. The authorized officer is the Forest Supervisor or a delegated subordinate officer.

C. License. This permit is a license for the use of federally owned land and does not grant any permanent, possessory interest in real property, nor shall this permit constitute a contract for purposes of the Contract Disputes Act of 1978 (41 U.S.C. 611). Loss of the privileges granted by this permit by revocation, termination, or suspension is not compensable to the holder.

D. Amendment. This permit may be amended in whole or in part by the Forest Service when, at the discretion of the authorized officer, such action is deemed necessary or desirable to incorporate new terms, conditions, and stipulations as may be required by law, regulation, land management plans, or other management decisions.

E. Existing Rights. This permit is subject to all valid rights and claims of third parties. The United States is not liable to the holder for the exercise of any such right or claim.

F. Nonexclusive Use and Public Access. Unless expressly provided for in additional terms, use of the permit area is not exclusive. The Forest Service reserves the right to use or allow others to use any part of the permit area, including roads, for any purpose, provided, such use does not materially interfere with the holder's authorized use. A final determination of conflicting uses is reserved to the Forest Service.

G. Forest Service Right of Entry and Inspection. The Forest Service has the right of unrestricted access of the permitted area or facility to ensure compliance with laws, regulations, and ordinances and the terms and conditions of this permit.

H. Assignability. This permit is not assignable or transferable. If the holder through death, voluntary sale or transfer, enforcement of contract, foreclosure, or other valid legal proceeding ceases to be the owner of the improvements, this permit shall terminate.

I. Permit Limitations. Nothing in this permit allows or implies permission to build or maintain any structure or facility, or to conduct any activity unless specifically provided for in this permit. Any use not specifically identified in this permit must be approved by the authorized officer in the form of a new permit or permit amendment.

II. TENURE AND ISSUANCE OF A NEW PERMIT

A. Expiration at the End of the Authorized Period. This permit will expire at midnight on 12/31/2021. Expiration shall occur by operation of law and shall not require notice, any decision document, or any environmental analysis or other documentation.

B. Minimum Use or Occupancy of the Permit Area. Use or occupancy of the permit area shall be exercised at least 365 days each year, unless otherwise authorized in writing under additional terms of this permit.

C. Notification to Authorized Officer. If the holder desires issuance of a new permit after expiration, the holder shall notify the authorized officer in writing not less than six (6) months prior to the expiration date of this permit.

D. Conditions for Issuance of a New Permit. At the expiration or termination of an existing permit, a new permit may be issued to the holder of the previous permit or to a new holder subject to the following conditions:

1. The authorized use is compatible with the land use allocation in the Forest Land and Resource Management Plan.
2. The permit area is being used for the purposes previously authorized.
3. The permit area is being operated and maintained in accordance with the provisions of the permit.
4. The holder has shown previous good faith compliance with the terms and conditions of all prior or other existing permits, and has not engaged in any activity or transaction contrary to Federal contracts, permits laws, or regulations.

E. Discretion of Forest Service. Notwithstanding any provisions of any prior or other permit, the authorized officer may prescribe new terms, conditions, and stipulations when a new permit is issued. The decision whether to issue a new permit to a holder or successor in interest is at the absolute discretion of the Forest Service.

F. Construction. Any construction authorized by this permit may commence by N/A and shall be completed by N/A. If construction is not completed within the prescribed time, this permit may be revoked or suspended.

III. RESPONSIBILITIES OF THE HOLDER

A. Compliance with Laws, Regulations, and other Legal Requirements. The holder shall comply with all applicable Federal, State, and local laws, regulations, and standards, including but not limited to, the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., the Resource Conservation and Recovery Act, 42 U.S.C. 6901 et seq., the Comprehensive Environmental Response, Control, and Liability Act, 42 U.S.C. 9601 et seq., and other relevant environmental laws, as well as public health and safety laws and other laws relating to the siting, construction, operation, and maintenance of any facility, improvement, or equipment on the property.

B. Plans. Plans for development, layout, construction, reconstruction, or alteration of improvements on the permit area, as well as revisions of such plans, must be prepared by a qualified individual acceptable to the authorized officer and shall be approved in writing prior to commencement of work. The holder may be required to furnish as-built plans, maps, or surveys, or other similar information, upon completion of construction.

C. Maintenance. The holder shall maintain the improvements and permit area to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the authorized officer and consistent with other provisions of this

authorization. If requested, the holder shall comply with inspection requirements deemed appropriate by the authorized officer.

D. Hazard Analysis. The holder has a continuing responsibility to identify all hazardous conditions on the permit area which would affect the improvements, resources, or pose a risk of injury to individuals. Any non-emergency actions to abate such hazards shall be performed after consultation with the authorized officer. In emergency situations, the holder shall notify the authorized officer of its actions as soon as possible, but not more than 48 hours, after such actions have been taken.

E. Change of Address. The holder shall immediately notify the authorized officer of a change in address.

F. Change in Ownership. This permit is not assignable and terminates upon change of ownership of the improvements or control of the business entity. The holder shall immediately notify the authorized officer when a change in ownership or control of business entity is pending. Notification by the present holder and potential owner shall be executed using Form SF-299 Application for Transportation and Utility Systems and Facilities of Federal Lands, or Form FS-2700-3a, Holder Initiated Revocation of Existing Authorization, Request for a Special Use Permit. Upon receipt of the proper documentation, the authorized officer may issue a permit to the party who acquires ownership of, or a controlling interest in, the improvements or business entity.

IV. LIABILITY

For purposes of this section, "holder" includes the holder's heirs, assigns, agents, employees, and contractors.

A. The holder assumes all risk of loss to the authorized improvements.

B. The holder shall indemnify, defend, and hold the United States harmless for any violations incurred under any such laws and regulations or for judgments, claims, or demands assessed against the United States in connection with the holder's use or occupancy of the property. The holder's indemnification of the United States shall include any loss by personal injury, loss of life or damage to property in connection with the occupancy or use of the property during the term of this permit. Indemnification shall include, but is not limited to, the value of resources damaged or destroyed; the costs of restoration, cleanup, or other mitigation; fire suppression or other types of abatement costs; third party claims and judgments; and all administrative, interest, and other legal costs. This paragraph shall survive the termination or revocation of this authorization, regardless of cause.

C. The holder has an affirmative duty to protect from damage the land, property, and interests of the United States.

D. In the event of any breach of the conditions of this authorization by the holder, the authorized officer may, on reasonable notice, cure the breach for the account at the expense of the holder. If the Forest Service at any time pays any sum of money or does any act which will require payment of money, or incurs any expense, including reasonable attorney's fees, in instituting, prosecuting, and/or defending any action or proceeding to enforce the United States rights hereunder, the sum or sums so paid by the United States, with all interests, costs and damages shall, at the election of the Forest Service, be deemed to be additional fees hereunder and shall be due from the holder to the Forest Service on the first day of the month following such election.

E. With respect to roads, the holder shall be proportionally liable for damages to all roads and trails of the United States open to public use caused by the holder's use to the same extent as provided above, except that liability shall not include reasonable and ordinary wear and tear.

F. The Forest Service has no duty to inspect the permit area or to warn of hazards and, if the Forest Service does inspect the permit area, it shall incur no additional duty nor liability for identified or non-identified hazards. This covenant may be enforced by the United States in a court of competent jurisdiction.

V. TERMINATION, REVOCATION, AND SUSPENSION

A. General. For purposes of this permit, "termination", "revocation", and "suspension" refer to the cessation of uses and privileges under the permit.

"Termination" refers to the cessation of the permit under its own terms without the necessity for any decision or action by the authorized officer. Termination occurs automatically when, by the terms of the permit, a fixed or agreed upon condition, event, or time occurs. For example, the permit terminates at expiration. Terminations are not appealable.

"Revocation" refers to an action by the authorized officer to end the permit because of noncompliance with any of the prescribed terms, or for reasons in the public interest. Revocations are appealable.

"Suspension" refers to a revocation which is temporary and the privileges may be restored upon the occurrence of prescribed actions or conditions. Suspensions are appealable.

B. Revocation or Suspension. The Forest Service may suspend or revoke this permit in whole or part for:

1. Noncompliance with Federal, State, or local laws and regulations.
2. Noncompliance with the terms and conditions of this permit.
3. Reasons in the public interest.
4. Abandonment or other failure of the holder to otherwise exercise the privileges granted.

C. Opportunity to Take Corrective Action. Prior to revocation or suspension for cause pursuant to Section V (B), the authorized officer shall give the holder written notice of the grounds for each action and a reasonable time, not to exceed 90 days, to complete the corrective action prescribed by the authorized officer.

D. Removal of Improvements. Prior to abandonment of the improvements or within a reasonable time following revocation or termination of this authorization, the holder shall prepare, for approval by the authorized officer, an abandonment plan for the permit area. The abandonment plan shall address removal of improvements and restoration of the permit area and prescribed time frames for these actions. If the holder fails to remove the improvements or restore the site within the prescribed time period, they become the property of the United States and may be sold, destroyed or otherwise disposed of without any liability to the United States. However, the holder shall remain liable for all cost associated with their removal, including costs of sale and impoundment, cleanup, and restoration of the site.

VI. FEES

A. Termination for Nonpayment. This permit shall automatically terminate without the necessity of prior notice when land use rental fees are 90 calendar days from the due date in arrears.

B. Fees – Linear Rights-of-Way, Annual Payment (A14). The holder shall pay annually in advance a sum determined by the authorized officer to be the fair market value of the use granted by the authorization. The initial payment is set at \$One Thousand nine hundred eight-five and 20/100 for the remainder of this billing period. Subsequent payments shall be determined by the use of an annual fee schedule. The Forest Service may adjust the amount of the payment annually by an appropriate indexing factor to reflect more nearly the fair market value of the use. At certain intervals the Forest Service shall review the fee and adjust the fee as necessary to assure that it is commensurate with the fair market value of the authorized use, as determined by appraisal or other sound business management principles.

C. Payment Due Date. The payment due date shall be the close of business on January 1 of each calendar year payment is due. Payments due the United States for this use shall be deposited at, in the form of a check, draft, or money order payable to "Forest Service, USDA." Payments shall be credited on the date received by the designated Forest Service collection officer or deposit location. If the due date for the fee or fee calculation statement falls on a non-workday, the charges shall not apply until the close of business on the next workday.

D. R2-A-11 INTEREST, ADMINISTRATIVE AND LATE PAYMENT CHARGES. Pursuant to 31 USC 3717 and 7 CFR Part 3, Subpart B, or subsequent changes thereto, interest shall be charged on any fee not paid within 30 days from the due date. Interest shall be calculated using the current rate prescribed by United States Department of the Treasury, Treasury Fiscal Requirements Manual Bulletins, for each 30-day period that the payment is overdue. In addition, \$35.00 will be assessed for the cost of processing and handling the overdue payment. A penalty of 6 percent per year shall be assessed on any payment overdue in excess of 90 days from the payment due date.

Payments will be credited on the date received by the designated collection officer or deposit location. If the due date(s) for any of the above designated payments or fee calculation statements fall on a nonworkday, the charges shall not apply until the close of business of the next workday.

Delinquent fees and other charges shall be subject to all the rights and remedies afforded the United States pursuant to federal law and implementing regulations (31 U.S.C. 3711 et Seq.).

VII. OTHER PROVISIONS

A. Members of Congress. No Member of or Delegate to Congress or Resident Commissioner shall benefit from this permit either directly or indirectly, except when the authorized use provides a general benefit to a corporation.

B. Appeals and Remedies. Any discretionary decisions or determinations by the authorized officer are subject to the appeal regulations at 36 CFR 251, Subpart C, or revisions thereto.

C. Superior Clauses. In the event of any conflict between any of the preceding printed clauses or any provision thereof and any of the following clauses or any provision thereof, the preceding printed clauses shall control.

D. Improvement Relocation (X33). This authorization is granted with the express understanding that should future location of United States Government-owned improvements or road rights-of-way require the relocation of the holder's improvements, such relocation will be done by, and at the expense of, the holder within a reasonable time as specified by the authorized officer.

E. Superseded Authorization (X18). This authorization supersedes a special-use authorization designated: OUR101202.

F. Pesticide Use (D23). Pesticides may not be used to control undesirable woody and herbaceous vegetation, aquatic plants, insects, rodents, trash fish, etc., without the prior written approval of the Forest Service. A request for approval of planned uses of pesticides will be submitted annually by the holder on the due date established by the authorized officer. The report will cover a 12-month period of planned use beginning 3 months after the reporting date. Information essential for review will be provided in the form specified. Exceptions to this schedule may be allowed, subject to emergency request and approval, only when unexpected outbreaks of pests require control measures which were not anticipated at the time an annual report was submitted.

Only those materials registered by the U.S. Environmental Protection Agency for the specific purpose planned will be considered for use on National Forest System lands. Label instructions will be strictly followed in the application of pesticides and disposal of excess materials and containers.

G. Revegetation of Ground Cover and Surface Restoration (D9). The holder shall be responsible for prevention and control of soil erosion and gully on lands covered by this authorization and adjacent thereto, resulting from construction, operation, maintenance, and termination of the authorized use. The holder shall so construct permitted improvements to avoid the accumulation of excessive heads of water and to avoid encroachment on streams. The holder shall revegetate or otherwise stabilize all ground where the soil has been exposed as a result of the holder's construction, maintenance, operation, or termination of the authorized use and shall construct and maintain necessary preventive measures to supplement the vegetation.

H. Operating Plan (C8). The holder shall provide an Operating Plan and revise the plan every year by March 15. This Operating Plan is hereby made a part of the authorization.

I. Drinking Water Systems (B38).

1. The holder, as the water supplier and owner or operator of the drinking water system, is responsible for compliance with all applicable Federal, State, and local drinking water laws and regulations for the operation and maintenance of a public water system. This includes, but is not limited to, developing, operating, and maintaining the system, and conducting drinking water testing and taking the appropriate corrective and follow-up actions in accordance with Federal, State, and any other applicable requirements. For the purposes of this authorization, public water systems are defined in the Safe Drinking Water Act, as amended (42 U.S.C.

300f et seq.), and in the National Primary Drinking Water Regulations, Title 40, Code of Federal Regulations, part 141 (40 CFR part 141), or by State regulations if more stringent.
J. Dam Safety (B37).

1. Definitions. The following definitions apply to this clause:

- a. **Qualified Engineer.** An engineer authorized to practice engineering in the field of dams in the State where the dam is located, either by professional registration as provided by State law or by reason of employment by the State or Federal Government.
- b. **Dam Failure.** Catastrophic event characterized by the sudden, rapid, and uncontrolled release of impounded water. It is recognized that there are lesser degrees of failure and that any malfunction or abnormality outside the design assumptions and parameters which adversely affect a dam's primary function of impounding water may also be considered a failure.
- c. **Rehabilitation or Modification.** Repair of major structure deterioration to restore original condition; alteration of structures to meet current design criteria, improve dam stability, enlarge reservoir capacity, or increase spillway and outlet works capacity; replacement of equipment.
- d. **Hazard Potential.** The classification of a dam based on the potential for loss of life or property damage that could occur if the structure failed (FSM 7500).
- e. **Emergency Action Plan.** Formal plan of procedures to prevent or reduce loss of life and property that could occur if the structure failed. The plan does not include flood plain management for the controlled release of floodwaters for which the project is designed.

2. **Dam Classification.** The dam constructed pursuant to this authorization shall be classified according to its height and storage capacity (water debris or both) as well as its hazard potential as follows:

Height and Storage Capacity (A, B, C, or D):

Hazard Potential (Low, Moderate, High):

Classification criteria are contained in FSM 7511, which the Forest Service may amend from time to time.

The provisions of sections 5 and 8 of this clause apply only to dams classified as high hazard, or as otherwise may be specifically provided for in this authorization to address special or unique circumstances.

The hazard potential of the dam shall be reassessed at least every ten years by a qualified engineer retained by the holder, and this information made available to the authorized officer. The Forest Service may change the hazard potential at any time based on changed conditions or new information.

3. **Construction, Inspection, Certification, and Project Files.** For construction, rehabilitation or improvement, the holder shall provide for inspection by a qualified engineer to ensure adequate control of the work being performed. At a minimum, the qualified engineer shall maintain a daily inspection diary, descriptions of design changes, and records of construction material and foundation tests.

Upon completion of construction, rehabilitation, or improvement, the holder shall forward to the Forest Service a statement from the qualified engineer responsible for inspection certifying that the works were built in accordance with the approved plans and specifications, or approved revisions thereto. No water shall be impounded until approval is given by the authorized officer.

All design notes, as-built plans, and the aforementioned diaries and records shall be maintained in a project file by the holder for the duration of this authorization, and shall be available to the Forest Service or other inspection personnel (not applicable to debris retention dams).

4. **Dam Operation and Maintenance Plans.** Prior to the storage of water, the holder shall have an approved plan for the operation and maintenance of the dam and appurtenant structures. The plan(s) shall, as a minimum, describe operating requirements and procedures to be followed for the operation of the structure;

routine or recurring maintenance required; record keeping to be performed for operation and maintenance; and individuals responsible for implementing the plans. At the time of the operation and maintenance inspection, the plan shall be reviewed and amended as needed by the individual responsible for implementation and the engineer performing any inspection. No plans or amendments thereto shall be valid until approved by the authorized officer.

5. Dam Emergency Action Plan. The following provisions are required for certain hazard classifications identified in section 2. The holder shall, prior to storage of water, prepare an emergency action plan which will include, but not be limited to:

- a. Actions to be taken upon discovery of an unsafe condition or impending failure situation to prevent or delay dam failure, and reduce damage or loss of life from subsequent failure.
- b. Procedures for notification of law enforcement, civil preparedness, and Forest Service personnel.
- c. Procedures for notifying persons in immediate danger of losing life or property.
- d. Maps delineating the area which would be inundated by water, debris, or both in the event of dam failure.
- e. The names of those individuals responsible for activating the plan and carrying out the identified actions.

In preparing the emergency action plan, the holder shall consult and cooperate with appropriate law enforcement and civil preparedness personnel, who may be responsible for implementing all or part of the plan. Emergency action plans shall be reviewed and updated annually, and tested at intervals not exceeding five years.

6. R2-B-1 DAM AND RESERVOIR INSPECTION. The Forest Service Regional Hydraulic Engineer may inspect the project at any time. To facilitate inspections during construction, the Holder shall:

1. In advance of construction, provide the Authorized Officer with a progressive schedule of planned construction and a target date by which each major construction phase should be completed.
2. Make available construction records, reports, tests, schedules, or other material as requested by the Engineer.
3. Allow access to and give such assistance as may be required by the Regional Hydraulic Engineer to ascertain that construction is as prescribed in the approved plans and specifications.
4. Make additional tests requested by the Authorized Officer.

7. Dam Safety Evaluations. This provision is required for certain hazard classifications identified in section 2.

Beginning in 2002 and at 5-year intervals thereafter, the holder shall have a formal dam safety evaluation performed by a qualified engineer to verify the safety and integrity of the dam and appurtenant structures. The evaluation will include, but is not limited to, a detailed field inspection of the dam and appurtenant structures and a review of all pertinent documents, such as investigation, design, construction, instrumentation, operation, maintenance, and inspection records. The evaluation shall be based on current accepted design criteria and practices. The holder shall provide two copies of the evaluation report to the authorized officer and Regional Engineer. Based on this report, the authorized officer may require the holder to perform additional evaluations pursuant to such standards as the officer may define and may require rehabilitation or modification of the structure within a reasonable time.

8. Right of Action To Abate Emergency Situations. In situations where the authorized officer determines on the available facts that there is danger of a dam failure for any reason, such officer may exercise discretionary authority to enter upon the structure and appurtenances authorized herein and take such actions as are necessary to abate or otherwise prevent a failure. Such actions include, but are not limited to, lowering the level of the impounded waters utilizing existing structures or by artificial breach of the dam. In the event that

such actions are taken, the United States shall not indemnify or otherwise be liable to the holder for losses or damages, including losses or damages to the structure or the value of impounded waters. The holder shall be responsible for all costs including legal and court costs. The failure of the Forest Service to exercise any discretion under this provision shall not be a violation of any duty by the United States, and shall not relieve the holder of any and all liability for damages in the event of a dam failure.

9. **Liability.** The activities permitted by this authorization shall be deemed a high-risk use and occupancy. Sole responsibility for the safety of the dam and associated facilities and any liability resulting therefrom shall be on the holder and his successors, agents, or assigns. Pursuant to 36 CFR 251.56(d), or its replacement, the holder shall be liable for injury, loss, or damage resulting from this authorization regardless of the holder's fault or negligence. Maximum strict liability shall not exceed \$1,000,000.00 except as that amount may be changed in the aforementioned regulations.

In addition to all waivers and limitations on liability of the United States under this authorization, the provisions of 33 U.S.C. 702(c) shall apply to any damages from or by floods or floodwaters at any place.

K. **Nondiscrimination in Employment and Services** (B1). During the performance of this authorization, the holder agrees:

1. In connection with the performance of work under this authorization, including construction, maintenance, and operation of the facility, the holder shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, age, or disability. (Ref. Title VII of the Civil Rights Act of 1964, as amended).

2. The holder and employees shall not discriminate by segregation or otherwise against any person on the basis of race, color, religion, sex, national origin, age, or disability, by curtailing or refusing to furnish accommodations, facilities, services, or use privileges offered to the public generally. (Ref. Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; Title IX of the Education Amendments, and the Age Discrimination Act of 1975).

3. The holder shall include and require compliance with the above nondiscrimination provisions in any subcontract made with respect to the operations under this authorization.

4. When furnished by the Forest Service, signs setting forth this policy of nondiscrimination will be conspicuously displayed at the public entrance to the premises, and at other exterior or interior locations as directed by the Forest Service.

5. The Forest Service shall have the right to enforce the foregoing nondiscrimination provisions by suit for specific performance or by any other available remedy under the laws of the United States of the State in which the breach or violation occurs.

L. **R2-A-11 INTEREST, ADMINISTRATIVE AND LATE PAYMENT CHARGES.** Pursuant to 31 USC 3717 and 7 CFR Part 3, Subpart B, or subsequent changes thereto, interest shall be charged on any fee not paid within 30 days from the due date. Interest shall be calculated using the current rate prescribed by United States Department of the Treasury, Treasury Fiscal Requirements Manual Bulletins, for each 30-day period that the payment is overdue. In addition, \$35.00 will be assessed for the cost of processing and handling the overdue payment. A penalty of 6 percent per year shall be assessed on any payment overdue in excess of 90 days from the payment due date.

Payments will be credited on the date received by the designated collection officer or deposit location. If the due date(s) for any of the above designated payments or fee calculation statements fall on a nonworkday, the charges shall not apply until the close of business of the next workday.

Delinquent fees and other charges shall be subject to all the rights and remedies afforded the United States pursuant to federal law and implementing regulations (31 U.S.C. 3711 et Seq.).

M. **R2-D-4 SITE DISTURBANCE.** The Holder shall obtain written permission from the Authorized Officer before opening any borrow pit adjacent to ditches or the high-water contour of any reservoir.

N. R2-D-8 NOXIOUS WEED CONTROL. The Holder shall take all reasonable precautions to prevent the introduction, establishment, and spread of noxious weeds on lands covered by this authorization and adjacent thereto.

O. R2-X-2 WATER RIGHTS, BOULDER CANYON ACT. This authorization is issued subject to the Boulder Canyon Project Act of December 21, 1928 (45 Stat., 1064).

P. R2-X-3A WATER RIGHTS. This authorization confers no right to the use of water by the Holder; such rights must be obtained under State law.

Q. R2-X-7 DISPUTES. Appeal of any provision of this authorization or any requirement thereof shall be subject to the appeal regulations at 36 CFR 251, Subpart C (54 FR 3362, January 23, 1989), or revisions thereto.

R. R2-X-11 Use of Certified Noxious Weed Free Hay, Straw or Mulch. When the permittee is using hay, straw, or mulch for any purpose on National Forest System lands, only hay, straw, or mulch certified as noxious weed free may be used. Certification must be by an authorized State or County Officer. The following are exempted from this requirement:

--Persons with a permit specifically authorizing the prohibited act.

-- Transporting feeds, straw, hay or mulch on Federal, State, and County roads that are not National Forest System roads and trails.

-- Persons possessing or using pelletized feed.

This permit is accepted subject to the conditions set out above.

HOLDER NAME: CITY OF OURAY

U.S. DEPARTMENT OF AGRICULTURE
Forest Service

By: [Signature]
(Holder Signature)

By: [Signature]
(Authorized Officer Signature)

By: _____
(Holder Signature)

Title: Forest Supervisor
(Name and Title)

Date: 12/27/01

Date: 12/27/01

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0082.

This information is needed by the Forest Service to evaluate requests to use National Forest System lands and manage those lands to protect natural resources, administer the use, and ensure public health and safety. This information is required to obtain or retain a benefit. The authority for that requirement is provided by the Organic Act of 1897 and the Federal Land Policy and Management Act of 1976, which authorize the Secretary of Agriculture to promulgate rules and regulations for authorizing and managing National Forest System lands. These statutes, along with the Term Permit Act, National Forest Ski Area Permit Act, Granger-Thye Act, Mineral Leasing Act, Alaska Term Permit Act, Act of September 3, 1954, Wilderness Act, National Forest Roads and Trails Act, Act of November 16, 1973, Archaeological Resources Protection Act, and Alaska National Interest Lands Conservation Act, authorize the Secretary of Agriculture to issue authorizations for the use and occupancy of National Forest System lands. The Secretary of Agriculture's regulations at 36 CFR Part 251, Subpart B, establish procedures for issuing those authorizations.

The Privacy Act of 1974 (5 U.S.C. 552a) and the Freedom of Information Act (5 U.S.C. 552) govern the confidentiality to be provided for information received by the Forest Service Public reporting burden for collection of information, if requested, is estimated to average 1 hour per response for annual financial information; average 1 hour per response to prepare or update operation and/or maintenance plan; average 1 hour per response for inspection reports; and an average of 1 hour for each request that may include such things as reports, logs, facility and user information, sublease information, and other similar miscellaneous information requests. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

City of Ouray
Water Supply System
Ouray Ranger District
Uncompahgre National
Forest

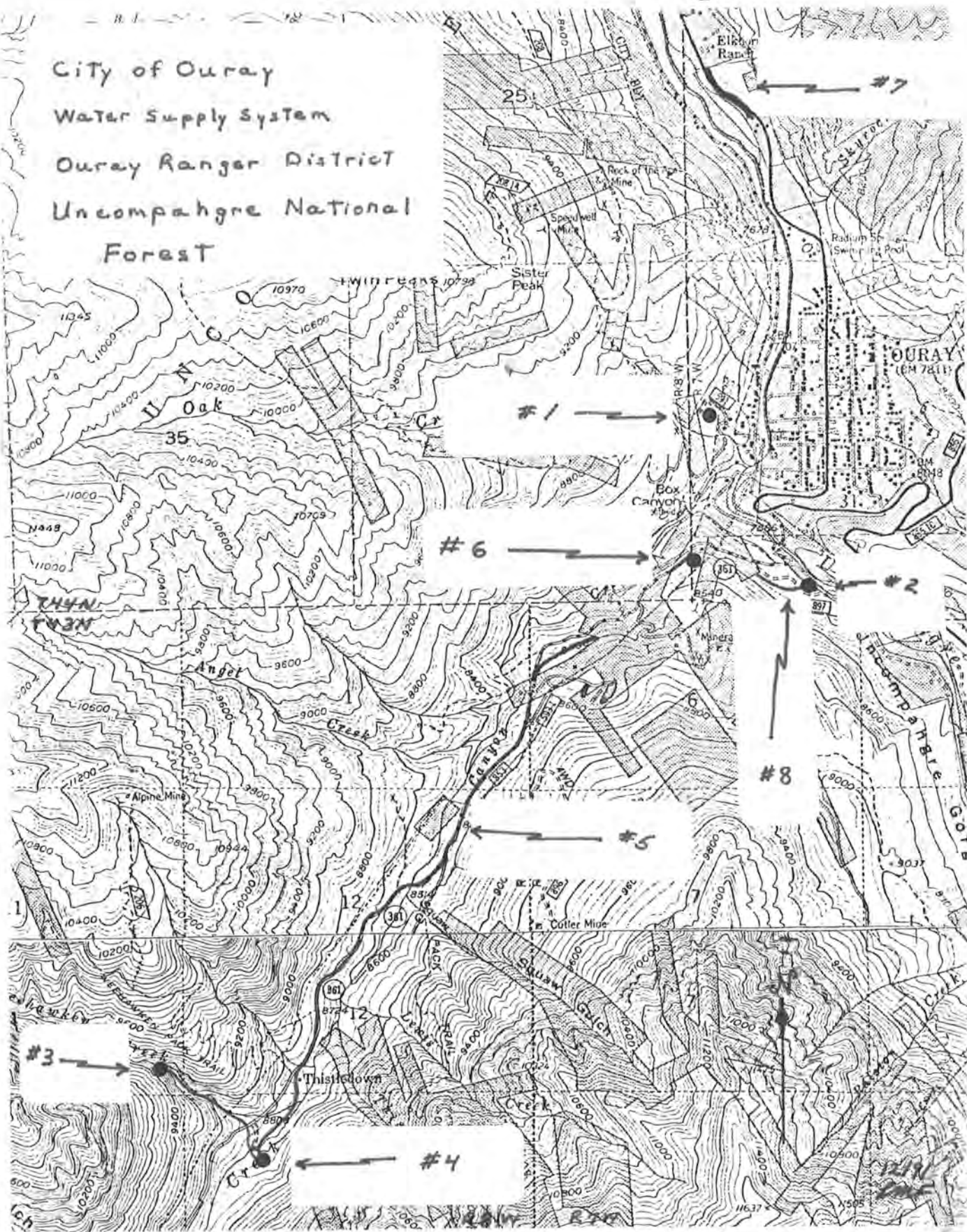


EXHIBIT A
FACILITY INVENTORY
CITY OF OURAY WATER SYSTEM

Permit Amendment #1

ITEM	DESCRIPTION	ROAD LENGTH	PIPELINE LENGTH	LINEAR AREA	RES. TANKS & OTHER AREA	TOTAL AREA
1	West Reservoir including access road from Queen Street and 10" pipeline	500	400	.3	2.8	3.1
2	South Reservoir including access road, 75 feet of 12" pipeline and 50 feet of 6" pipeline	800	125	.4	1.2	1.6
3	Weehawken Creek Intake	0	1500	.7	0	.7
4	Weehawken collection box including access road, bridge over Canyon Creek, and various spring houses, spring boxes and waterline	400		.2	.3	.5
5	10 inch waterline from collection box to 500,000 gallon storage tank	0	9730 10700	4.47 4.9	0	4.47 4.9
6	500 gallon steel storage tank and concrete block building	0	0	0	.7	.7
7	North City 3" pipeline to Rotary Park	0	1230	.6	0	.6
8	14" waterline from steel storage tank to South Reservoir		700	.3	0	.3
	TOTAL	1700	13685 14675	7.4	5.0	11.94 12.4

REFERENCES

Construction plans for Water System Improvements, Phase I and II, for City of Ouray, Colorado, August 1973 by Meurer, Serafini, Meurer.

A raw water supply line for the City of Ouray by Del-Mont Consultants

City of Ouray Spring House Topo, November 1983, by Del-Mont Consultants

City of Ouray Service Bridge to Weehawken Springs, 8/4/88 by Buckhorn Geotech

Facility Inventory City of Ouray Water System L. Mauch

(Item numbers correlate to items shown on map attached to permit OUR101206)

Updated 1/7/2013 to reflect sale of Ice Park and construction of new raw water supply line, storage tank and treatment bldg.

ITEM	DESCRIPTION	ROAD LENGTH (20' WIDE)	PIPELINE LENGTH (20' WIDE)	LINEAR AREA	RESERVOIR, TANKS/ OTHER AREA	TOTAL AREA
4	Weehawken collection box including access road, bridge over Canyon Creek, and various spring house, spring boxes and waterline	400	0	0.2	0.3	0.5
5 + 2012 new pipeline construction	Older, 9,730 long, 10" diameter water line from collection box to storage tanks/treatment building AND 3900' long, 10 " diameter, new raw water line from Mineral Farms valve to storage tanks (since new line is in the existing ROW, do not charge separately for this new line)	0	9,730	4.5	0	4.5
6 + 2012 new construction	500,000 gallon older storage tank, new 500,000 gallon tank, treatment building, and access road	100	0	0.05	1.0	1.05
8	14" line from storage tank toward South Res, crossing NFS land		540	0.25		0.25
	TOTAL	500	10,270	5.0	1.3	6.3

Notes: the new 2012 constructed waterline was placed in the ROW for the old waterline. No direction found in the FS manual or handbook for billing for the same type of use occurring in a common ROW. Since they are the same Use Code, we billed once for the ROW.

Use Linear ROW schedule and add together the last row of column 3 & 4

Use Land value schedule for column 6, Area 4, Non-agricultural use 8%, for last row of column 6

APPLICATION FOR TRANSPORTATION, UTILITY SYSTEMS, TELECOMMUNICATIONS AND FACILITIES
ON FEDERAL LANDS AND PROPERTYFORM APPROVED
OMB Control Number: 0596-0249
Expiration Date: 2/28/2023

FOR AGENCY USE ONLY

NOTE: Before completing and filing the application for an authorization (easement, right-of-way, lease, license or permit), the applicant should completely review this package, including instructions, and schedule a pre-application meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the pre-application meeting.

Application Number

Date Filed

1. Name and address of applicant
Silas Clarke, City Administrator
City of Ouray
P.O. Box 468 / 320 6th Ave.
Ouray, CO 81427

2. Name and address of authorized agent if different from item 1

3. Applicant telephone number and email:
P: 970-325-7060
E: clarkes@cityofouray.com

Authorized agent telephone number and email:

4. As applicant are you? (check one)

- a. ☐ Individual
b. ☐ Corporation*
c. ☐ Partnership/Association*
d. ☐ State Government/State Agency
e. ☒ Local Government
f. ☐ Federal Agency

* If checked, complete supplemental page

5. Specify what application is for: (check one)

- a. ☐ New authorization
b. ☒ Renewing existing authorization number
c. ☐ Amend existing authorization number
d. ☐ Assign existing authorization number
e. ☐ Existing use for which no authorization has been received *
f. ☐ Other*

* If checked, provide details under item 7

6. If an individual, or partnership, are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description (describe in detail): (a) Type of use or occupancy, (e.g., canal, pipeline, road, telecommunications); (b) related structures and facilities; (c) physical specifications (Length, width, grading, etc.); (d) term of days/years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for activity/construction (Attach additional sheets, if additional space is needed.)

See Attachment A for Project description.

See Attachment B for map of Project area and location.

8. Attach a map covering area and show location of project proposal.

9. State or Local government approval: ☐ Attached ☐ Applied for ☒ Not Required10. Nonrefundable application fee: ☐ Attached ☐ Not required ☒ To be determined by agency11. Does project cross international boundary or affect international waterways? ☐ Yes ☒ No (if "yes," indicate on map)

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

The City of Ouray has operated a municipal water system since 1881 and has the technical and financial capability to construct, replace, operate and maintain a public water supply system.

13a. Describe other alternative locations considered.

No alternative locations are being considered as part of the SUP renewal.

b. Why were these alternatives not selected?

Not Applicable.

c. Give explanation as to why it is necessary to use or occupy Federal assets (lands or buildings).

The City's existing SUP (Authorization ID: OUR101206) is set to expire 12/31/2021, and this project application is intended to renew and update the existing SUP, allowing the City to continue to access, operate, replace, and maintain its existing municipal drinking water supply system that is partially located on USFS land.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. (Specify number, date, code, or name)

Not applicable.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal (construction, operation, and maintenance); (b) estimated cost of next best alternative; and (c) expected public benefits.

The City's existing SUP (Authorization ID: OUR101206) is set to expire 12/31/2021, and this project application is intended to renew and update the existing SUP, allowing the City to continue to operate and maintain its existing municipal drinking water supply system.

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

There are no reasonably foreseeable additional effects to the social and economic aspects of the local population as a result of renewing and updating the City's existing SUP.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability; and, (g) historic or archaeological resources or properties.

There are no reasonably foreseeable additional effects on air quality, visual aesthetics, surface and ground water quality or quantity, bodies of water, noise levels, land surfaces, or historic properties as a result of renewing and updating the City's existing SUP.

18. Describe the probable effects that the proposed project will have on (a) populations of fish, plant life, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

There are no reasonably foreseeable additional effects on fish, plant life, wildlife, threatened and endangered species, or hunting activities as a result of renewing and updating the City's existing SUP

19. State whether any hazardous material, as defined in this paragraph, would be used, produced, transported or stored on or in a federal building or federal lands or would be used in connection with the proposed use or occupancy. "Hazardous material" shall mean (a) any hazardous substance under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9601(14); (b) any pollutant or contaminant under section 101(33) of CERCLA, 42 U.S.C. § 9601(33); (c) any petroleum product or its derivative, including fuel oil, and waste oils; and (d) any hazardous substance, extremely hazardous substance, toxic substance, hazardous waste, ignitable, reactive or corrosive materials, pollutant, contaminant, element, compound, mixture, solution or substance that may pose a present or potential hazard to human health or the environment under any applicable environmental laws. The holder shall not store any hazardous materials at the site without prior written approval from the authorized officer. This approval shall not be unreasonably withheld. If the authorized officer provides approval, this permit shall include (or in the case of approval provided after this permit is issued, shall be amended to include) specific terms addressing the storage of hazardous materials, including the specific type of materials to be stored, the volume, the type of storage, and a spill plan. Such terms shall be proposed by the holder and are subject to approval by the authorized officer.

Chlorine gas is currently stored in a treatment building near the two 500,000-gallon storage tank sites. No other known hazardous materials are currently stored as part of the City's Municipal Water Supply System.

20. Name all the Federal Department(s)/Agency(ies) where this application is being filed.

United States Forest Service.

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

Silas Clarke

Digitally signed by Silas Clarke
Date: 2021.06.28 17:22:49 -06'00'

Date

6.28.2021

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

GENERAL INFORMATION
ALASKA NATIONAL INTEREST LANDS

This application will be used when applying for a right-of-way, permit, license, lease, or certificate for the use of Federal lands which lie within conservation system units and National Recreation or Conservation Areas as defined in the Alaska National Interest Lands Conservation Act. Conservation system units include the National Park System, National Wildlife Refuge System, National Wild and Scenic Rivers System, National Trails System, National Wilderness Preservation System, and National Forest Monuments.

Transportation utility systems telecommunication installations facility uses for which the application may be used are:

1. Canals, ditches, flumes, laterals, pipes, pipelines, tunnels, and other systems for the transportation of water.
2. Pipelines and other systems for the transportation of liquids other than water, including oil, natural gas, synthetic liquid and gaseous fuels, and any refined product produced therefrom.
3. Pipelines, slurry and emulsion systems, and conveyor belts for transportation of solid materials.
4. Systems for the transmission and distribution of electric energy.
5. Wired and wireless systems for transmission or reception of radio, television, telephone, telegraph, and other electronic signals, and other means of communications.
6. Improved right-of-way for snow machines, air cushion vehicles, and all-terrain vehicles.
7. Roads, highways, railroads, tunnels, tramways, airports, landing strips, docks, and other systems of general transportation.

This application must be filed simultaneously with each Federal department or agency requiring authorization to establish and operate your proposal.

In Alaska, the following agencies will help the applicant file an application and identify the other agencies the applicant should contact and possibly file with:

Department of Agriculture
Regional Forester, Forest Service (USFS)
P.O. Box 21628
Juneau, Alaska 99802-1628
Telephone: (907) 586-7847
(or a local Forest Service Office)

Department of the Interior
Bureau of Indian Affairs (BIA)
Alaska Regional Office
709 West 9th Street
Juneau, Alaska 99802
Telephone: (907) 586-7177

Department of the Interior
Alaska State Office
Bureau of Land Management
222 West 7th Avenue #13
Anchorage, Alaska 99513
Public Room: 907-271-5960
FAX: 907-271-3684
(or a local BLM Office)

U.S. Fish & Wildlife Service (FWS)
Office of the Regional Director
1011 East Tudor Road
Anchorage, Alaska 99503
Telephone: (907) 786-3440

National Park Service (NPS)
Alaska Regional Office
240 West 5th Avenue
Anchorage, Alaska 99501
Telephone: (907) 644-3510

Department of Transportation
Federal Aviation Administration
Alaska Region AAL-4, 222 West 7th Ave., Box 14
Anchorage, Alaska 99513-7587
Telephone: (907) 271-5285

NOTE - The Department of Transportation has established the above central filing point for agencies within that Department. Affected agencies are: Federal Aviation Administration (FAA), Coast Guard (USCG), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA).

OTHER THAN ALASKA NATIONAL INTEREST LANDS

Use of this form is not limited to National Interest Conservation Lands of Alaska.

Individual department/agencies may authorize the use of this form by applicants for transportation, utility systems, telecommunication installations and facilities on other Federal lands outside those areas described above.

For proposals located outside of Alaska, applications will be filed at the local agency office or at a location specified by the responsible Federal agency.

SPECIFIC INSTRUCTIONS
(Items not listed are self-explanatory)

- 7 Attach preliminary site and facility construction plans. The responsible agency will provide instructions whenever specific plans are required.
- 8 Generally, the map must show the section(s), township(s), and range(s) within which the project is to be located. Show the proposed location of the project on the map as accurately as possible. Some agencies require detailed survey maps. The responsible agency will provide additional instructions.
- 9, 10, and 12 The responsible agency will provide additional instructions.
- 13 Providing information on alternate locations in as much detail as possible, discussing why certain locations were rejected and why it is necessary to use Federal assets will assist the agency(ies) in processing your application and reaching a final decision. Include only reasonable alternate locations as related to current technology and economics.
- 14 The responsible agency will provide instructions.
- 15 Generally, a simple statement of the purpose of the proposal will be sufficient. However, major proposals located in critical or sensitive areas may require a full analysis with additional specific information. The responsible agency will provide additional instructions.
- 16 through 19 Providing this information with as much detail as possible will assist the Federal agency(ies) in processing the application and reaching a decision. When completing these items, you should use a sound judgment in furnishing relevant information. For example, if the project is not near a stream or other body of water, do not address this subject. The responsible agency will provide additional instructions.

Application must be signed by the applicant or applicant's authorized representative.

Note - Filings with any Interior agency may be filed with any office noted above or with the Office of the Secretary of the Interior, Regional Environmental Officer, P.O. Box 120, 1675 C Street, Anchorage, Alaska 99513.

EFFECT OF NOT PROVIDING INFORMATION

Disclosure of the information is voluntary. If all the information is not provided, the proposal or application may be rejected.

DATA COLLECTION STATEMENT

The Federal agencies collect this information from proponents and applicants requesting a right-of-way, permit, license, lease, or certification for use of Federal assets. The Federal agencies use this information to evaluate a proponent's or applicant's proposal to use Federal assets.

BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0249. The time required to complete this information collection is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The authority to collect this information is derived from 47 U.S.C. 1455(c)(3) and 16 U.S.C. 3210.

USDA NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.

The Privacy Act of 1974 (5 U.S.C. 552a) and the Freedom of Information Act (5 U.S.C. 552) govern the confidentiality to be provided for information received by the Forest Service.

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide instructions	CHECK APPROPRIATE BLOCK	
I - PRIVATE CORPORATIONS	ATTACHED	FILED *
a. Articles of Incorporation	<input type="checkbox"/>	<input type="checkbox"/>
b. Corporation Bylaws	<input type="checkbox"/>	<input type="checkbox"/>
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State	<input type="checkbox"/>	<input type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input type="checkbox"/>
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	<input type="checkbox"/>	<input type="checkbox"/>
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	<input type="checkbox"/>	<input type="checkbox"/>
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	<input type="checkbox"/>	<input type="checkbox"/>
II - PUBLIC CORPORATIONS		
a. Copy of law forming corporation	<input type="checkbox"/>	<input type="checkbox"/>
b. Proof of organization	<input type="checkbox"/>	<input type="checkbox"/>
c. Copy of Bylaws	<input type="checkbox"/>	<input type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input type="checkbox"/>
e. If application is for an oil or gas pipeline, provide information required by item "I - f" and "I - g" above.	<input type="checkbox"/>	<input type="checkbox"/>
III - PARTNERSHIP OR OTHER UNINCORPORATED ENTITY		
a. Articles of association, if any	<input type="checkbox"/>	<input type="checkbox"/>
b. If one partner is authorized to sign, resolution authorizing action is	<input type="checkbox"/>	<input type="checkbox"/>
c. Name and address of each participant, partner, association, or other	<input type="checkbox"/>	<input type="checkbox"/>
d. If application is for an oil or gas pipeline, provide information required by item "I - f" and "I - g" above.	<input type="checkbox"/>	<input type="checkbox"/>

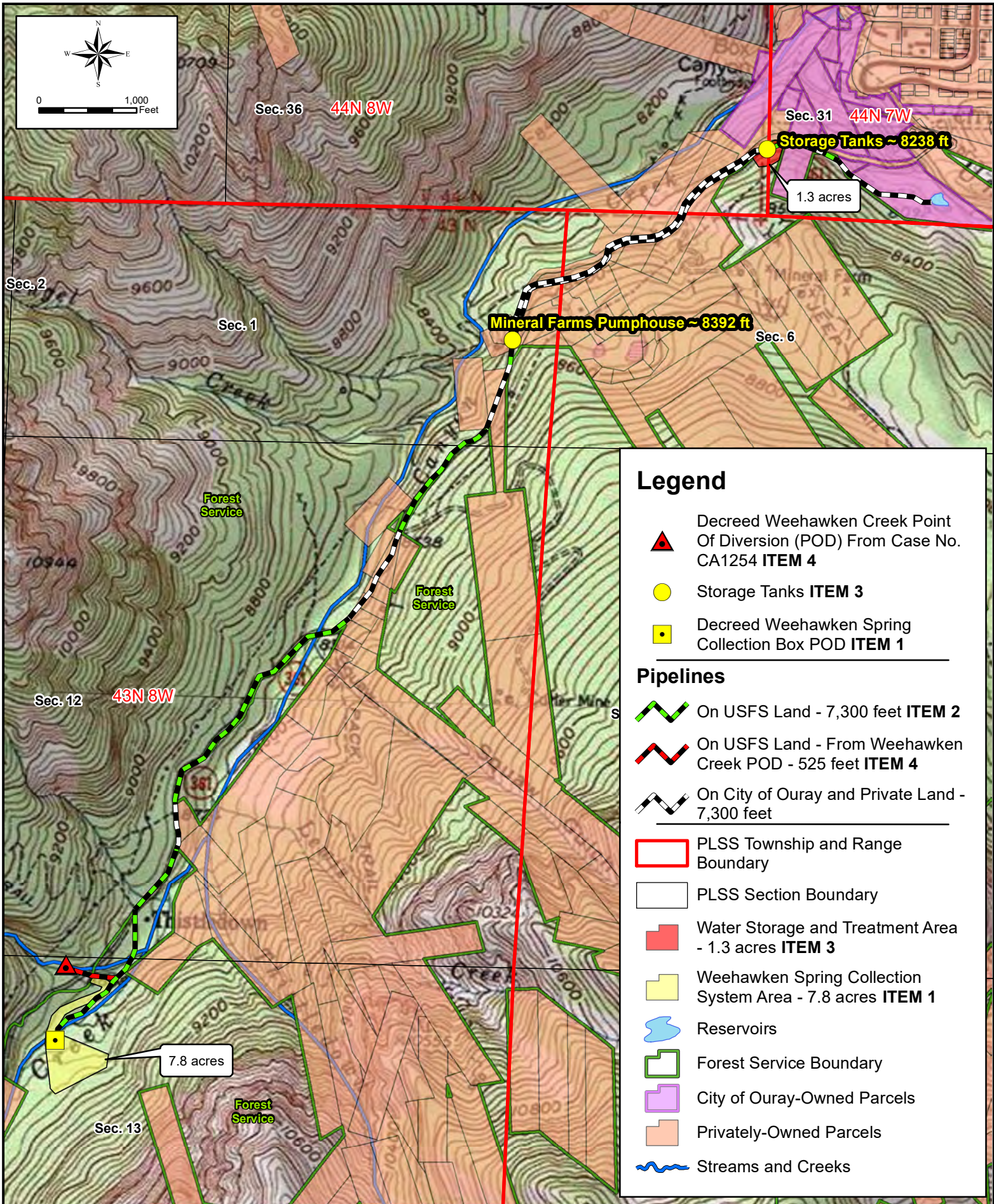
* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information (e.g., number, date, code, name). If not on file or current, attach the requested information.

Attachment A

7. Project Description

In 2001, the U.S. Forest Service (Forest Service) issued to the City of Ouray (City) a Special Use Permit (SUP) (Authorization ID: OUR101206). The purpose of the project authorized under that existing SUP, and for this SUP renewal, is for the City to maintain, repair, replace and operate the City's municipal water supply system, and to collect, divert, transport, treat, and store water from spring collection boxes and diversion structures and pipelines on and across Forest Service lands to the distribution system within the City of Ouray, and for associated access to all related facilities. The City's existing municipal water supply system operates year-round and is decreed to divert up to 5.2 cubic feet per second (cfs) of water with an appropriation date of 10/1/1881 and 3.816 cfs of water with an appropriation date of 7/1/1889 from Weehawken Spring and Weehawken Creek.* Water is and will continue to be delivered from the collection boxes and diversion points to the City's water storage tanks and distribution system. This application is intended to renew the City's SUP and update the facility inventory for the portion of the City's water system that is located on Forest Service lands. The City's municipal water supply and transmission system was initially constructed in the 1880s, and the City asserts that it has vested pre-Forest Service and pre-Federal Land Policy and Management Act (FLPMA) easement and right of way interests under the 1866 Act and other authorities. Nothing in this application, or in the renewed SUP sought to be issued, is intended or shall be construed to abandon or diminish the City's vested pre-FLPMA easements or right of way claims. The map attached as Attachment B provides a project area map of the City's municipal water supply system that shows the location and extent of the City's water system and depicts which portions of the system are located on: (1) United States Forest Service (USFS) land, (2) City of Ouray-owned land, and (3) non-USFS privately-owned land. The existing SUP and requested renewed SUP cover only that portion of the City's water system that is located on or traverses Forest Service lands. The table attached as Attachment C provides an updated facility inventory of the City of Ouray Water System by land ownership category.

* The Colorado state court Decrees for the City's water rights spell the name of this spring and creek as "Wehawken", but the City in this Application and SUP are using the spelling "Weehawken" to conform to the standard spelling in USGS and Forest Service maps and in common usage.



Date: 6/28/2021 Document Path: P:\051-036\000 Water Right Inventory\Mapping\Planning Maps 2021\Attachment B - Ouray Pipelines.mxd

User Name: TDowning



Wright Water Engineers, Inc.
1666 N. Main Ave., Ste. C
Durango, CO 81301
(970) 259-7411 ph 259-8758 fx

OURAY COUNTY, CO

PIPELINES AND POINTS OF DIVERSION

CITY OF OURAY

PROJECT NO.
051-036.000

ATTACHMENT
B

Attachment C

Facility Inventory City of Ouray Water System

(Item numbers correlate to items shown on Attachment B Map)

Item	Description	Pipeline Length*	Linear Area*	Total Area*
		(Feet)	(Acres)	(Acres)
1	Weehawken Spring Collection System: access road, bridge over Canyon Creek, spring boxes and piping.	0	0.0	7.8
2	Ten inch diameter water lines between Weehawken Spring and storage tanks and over flow from storage tanks to South Reservoir	7,300	6.7	6.7
3	Water Storage and Treatment Area: Two 500,000 gallon storage tanks, chlorination treatment building, valve and meter vault, piping, and access road.	0	0.0	1.3
4	Weehawken Creek Point of Diversion to connection with Weehawken Spring pipeline.	525	0.5	0.5
TOTAL		7,825	7.2	16.3

*The above distances and area include only the portion of the City's Water System that is currently located on or under USFS lands. For example, roughly half of the Item 2 water lines are located on or under non-USFS lands owned by the City of Ouray or private parties, as reflected on the Attachment B Map.

Appendix C.

Application for Ouray County Right-Of-Way Permit

**APPLICATION FOR OURAY COUNTY
RIGHT-OF-WAY PERMIT**

The Right-of-Way Permit is for construction in or improvement to Ouray County rights-of-way. A permit is required to construct driveways, install telephone, electric, gas, sewer, water and other utility wires, pipelines, or the like, along, across, upon and under any road right-of-way which is owned or controlled by Ouray County.

Permittee

Name _____
Company _____
Address _____
City _____ State _____ Zip _____
Business Phone _____
Fax No. _____
Email _____
Insurance Carrier _____

Contractor

Name _____
Company _____
Address _____
City _____ State _____ Zip _____
Business Phone _____
Fax No. _____
Email _____
Limits: _____

Location/Description of Construction:

CR _____ at the following locations: _____

Address _____ Subdivision _____ Legal Desc. _____

HOW MANY FEET ARE YOU DISTURBING IN THE RIGHT-OF-WAY: _____
PLANS REQUIRED WITH APPLICATION

Type of Work:

- | | | | | | |
|---|-------------------------------|----------------------------------|-----------------------------------|-------------------------------|----------------------------------|
| <input type="checkbox"/> TV Cable | <input type="checkbox"/> Main | <input type="checkbox"/> Service | <input type="checkbox"/> Phone | <input type="checkbox"/> Main | <input type="checkbox"/> Service |
| <input type="checkbox"/> Gas | <input type="checkbox"/> Main | <input type="checkbox"/> Service | <input type="checkbox"/> Water | <input type="checkbox"/> Main | <input type="checkbox"/> Service |
| <input type="checkbox"/> Electric | <input type="checkbox"/> Main | <input type="checkbox"/> Service | <input type="checkbox"/> Set Pole | <input type="checkbox"/> Main | <input type="checkbox"/> Service |
| <input checked="" type="checkbox"/> Culvert _____ inch by _____ foot long corrugated pipe (0.16 gauge) with annular ends.
6" cover – ¾ "compacted road base. | | | | | |
| <input type="checkbox"/> Other _____ | | | | | |
| <input type="checkbox"/> Cut Pavement (Repair must be completed in 15 days) _____ | | | | | |
| <input type="checkbox"/> Include sketch showing excavation(s) with dashed line in relation to road, house and driveway | | | | | |

Construction Schedule and Submittal Questions – All permit holders must request inspection 24 hours in advance of work commencing. Please call 970.626.5391 for inspection request.

Planned Start Date _____ Daily Work Hours _____
Planned Finish Date _____ Weekend Work Hours _____
Does project disturb more than _____ acre? Yes No
If yes, a Revegetation and Weed Control Plan needs to be submitted with application

READ CAREFULLY

Job must be finished and right-of-way restored to its original condition by expiration date. Failure to do so is a violation of state and local regulations and new permits may not be issued until the job is complete. Permit extensions may be granted by calling the road inspector.

Applicant shall be responsible for confirming all utility locations within public rights-of-way prior to any excavation. Call UNCC: 1.800.922.1987.

Work in the right-of-way is only allowed between _____ and _____, weather permitting. A minimum of three working days is required to process this application.

The owner of the private improvements under this permit shall promptly relocate or remove such improvements from the Ouray County right-of-way at his own expense upon written request from Ouray County. By requiring or approving this permit, Ouray County makes no warranty of title or interest in any property or right-of-way. By submitting this application, applicant agrees to indemnify Ouray County for all claims against Ouray County arising out of, caused by or related to the work contemplated by this application, including all reasonable attorney's fees. Nothing herein shall be construed as a waiver of any right by Ouray County or an admission that any use in the right-of-way is adverse.

APPLICANT GUARANTEES ALL WORK FOR TWO YEARS FROM FINAL INSPECTION DATE

By accepting this permit, the undersigned Permittee or agent, under penalty of perjury, verifies that they have received all pages of the permit application; they have read and understood all of the permit requirements and provisions set forth on all pages; that they have the authority to sign for and bind the Permittee; and that by virtue of their signature, the Permittee is bound by and agrees to comply with all said permit requirements and provisions, all Ouray County regulations, ordinances or state laws regarding facilities construction.

Permittee or agent signature Date _____

Office Use Only:

Permit Number:

Note: This permit expires on: _____ **Void after this date.**

Requirements for construction / restoration:

- ☐ Excavation and Traffic Control is to be performed per OSHA Regulations
- ☐ Compaction (95% min. w/testing reports – flowable concrete backfill may be used as an alternative) _____
- ☐ Reconstruction of base / sub-base _____
- ☐ Regrading of shoulders / ditch _____
- ☐ Revegetation and Weed Control Fee _____

Fees & Requirements:

- ☐ **\$100** (plus .20¢ per linear foot over 50 feet) = \$ _____
- ☐ Bond Required: Amount _____ Term Date _____ Other _____
- ☐ Insurance: Policy # _____ (\$300,000.00 per person, \$1,000,000.00 per occurrence)
- ☐ Mapping Fee _____

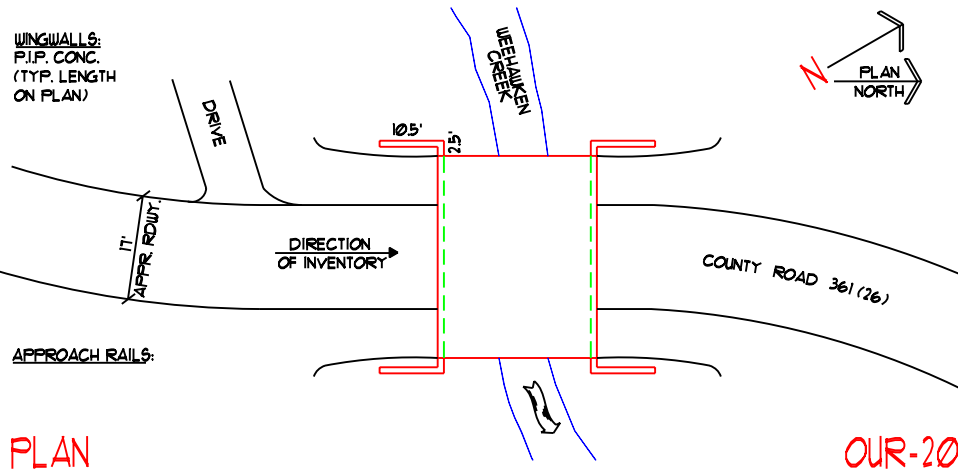
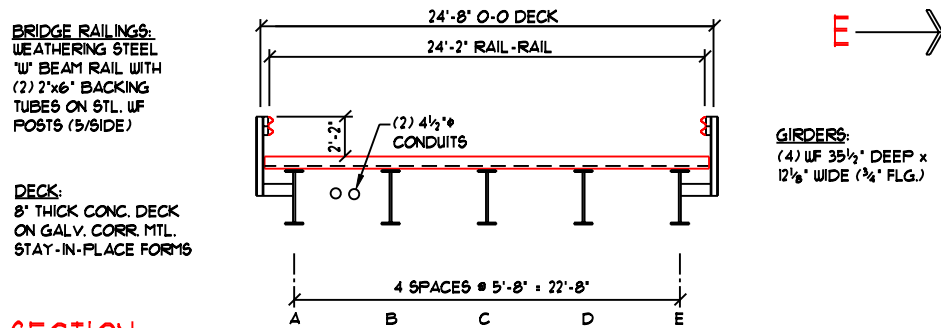
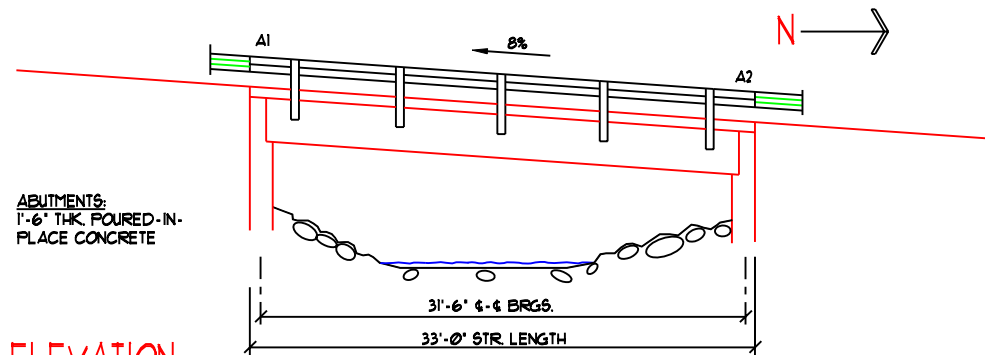
Permit Approved – Ouray County _____ Date _____ Final Inspection Approval _____ Date _____

Approved for Construction _____ Date _____

1. **Cost to Ouray County.** Permittee fully understands that all line installation and/or construction will be performed at no expense whatsoever to Ouray County.
2. **Stop Work.** Ouray County shall have the right to order Permittee to stop work anytime Ouray County believes that a violation of this permit has occurred or if there is a danger to the public safety if the work continues.
3. **Revocability.** Ouray County reserves the right to revoke this permit at any time should Permittee fail to comply with any of the requirements of this permit. Should this permit be revoked, Permittee must obtain a new permit and pay all required fees in order to continue with the project contemplated herein. Any lines or materials installed by Permittee prior to the revocation of the permit remain the responsibility of Permittee and shall be maintained or removed by Permittee at the discretion of Ouray County.
4. **Warranty of Right-of-Way.** Ouray County does not warrant the right-of-way by the issuance of this permit. Permittee is responsible for determining the ownership of properties traversed by its lines, the location of all property boundary lines, and the ownership of all rights-of way.
5. Commencement of construction prior to payment of fees and granting of approvals will result in applicable fees being doubled. Construction without inspection is subject to rejection.
6. Traffic shall be maintained on all rights-of-way. Flaggers shall be provided at any locations where the orderly flow of traffic is interrupted.
7. Permittee shall provide all necessary signs and barricades in accordance with the Manual on Uniform Traffic Control Devices and its latest Colorado Supplement in order to warn oncoming motorists of any installation or construction work.
8. In the event any changes are made in the future to the roadway or its appurtenances within the right-of-way contemplated herein that would necessitate removal or relocation of the lines installed or constructed herein, Permittee shall do so promptly at its own expense upon the written request from Ouray County, Colorado.
9. A copy of this permit shall be maintained on-site at all times until the work has been completed and inspected.
10. Permittee shall furnish all labor and materials, perform all work, and pay all costs in connection with the construction of the driveway(s) and its appurtenances on the right-of-way. All work shall be completed in an expeditious and safe manner and shall be finished within three months of the permit date.
11. This permit does not allow any damage to occur on the existing County right-of-way. If Permittee causes damage to the County road, Permittee shall repair road to the County's satisfaction.
12. This permit is valid only for the work described on page one. Any additional work shall require a separate application and permit.

Appendix D.

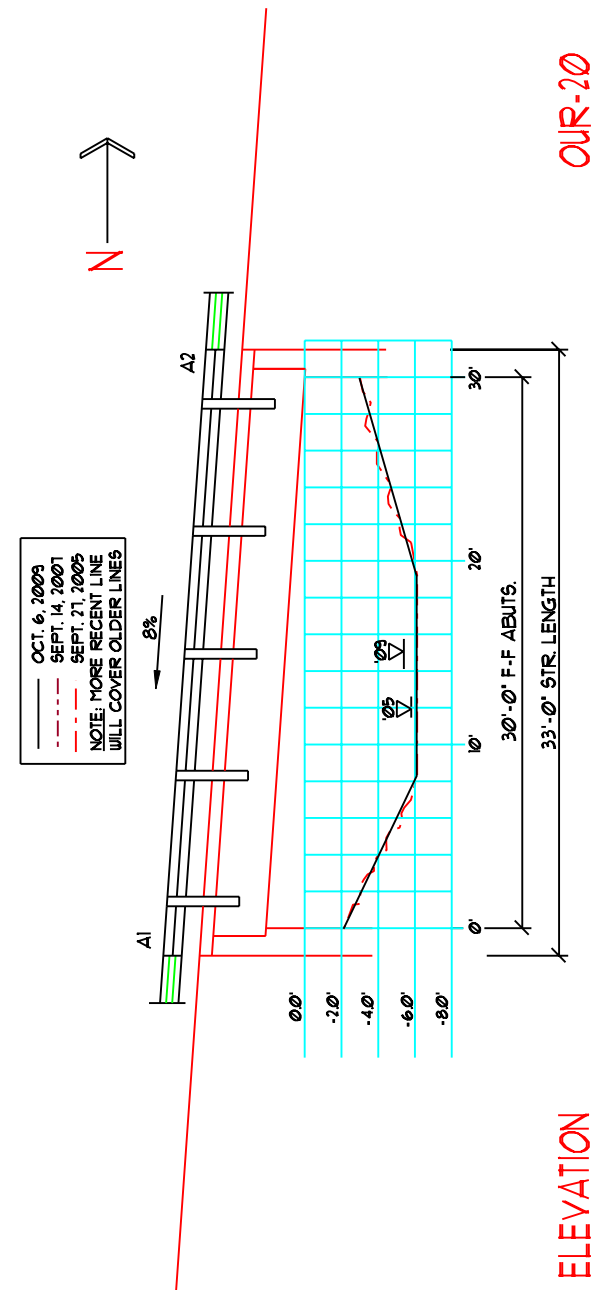
Thistledown Bridge and Harris Bridge As-Built Information
from Ouray County Road and Bridge



WATERWAY OPENING *	
INSPECTION DATE	AREA (SQUARE FEET)
SEPTEMBER 27, 2005	193 (NEW BRIDGE)
SEPTEMBER 14, 2007	193
OCTOBER 6, 2009	193

* NOT ADJUSTED FOR SKEW

TABULATION



To: Steven Calkins
Road and Bridge Supervisor

From: Adam Leith, PE
Associate, Transportation

Ouray County
115 Mall Road
Ridgeway, CO 81432

Stantec Consulting Services Inc.
2000 S. Colorado Blvd 2-300
Denver CO 80222

Date: October 11, 2019

Essential Repair Letter – OUR361-2.7-20

Essential Repairs are existing conditions which require repairs to ensure the safe and continued service of a structure. The documentation below identifies conditions found during a recent bridge inspection that requires an Essential Repair.

Bridge Inspection Team Leader: Karen Bosworth

Structure Number: OUR361-2.7-20

Inspection Date: 10/8/2019

Facility Carried: County Road 26

Feature Intersected: Weehawken Creek

ER Color Code Classifications (See definition at end of letter):

- Orange – Install drop structure and repair scour
- Blue – Ouray County to monitor bridge on a monthly basis

Structure Description: OUR361-2.7-20 is a single span structure with a concrete deck cast on steel wide flange girders founded on concrete wall abutments on spread footings. The spread footings are 18 inches thick but the width is unknown since plans are not available.

Findings

There is a large 6 foot high headcut in the channel streambed at the downstream side of the structure. Over the past 2 years, scour has caused this headcut to travel upstream toward the bridge which has undermined and washed away a large portion of the grouted riprap at the downstream side of the structure. The scour has exposed and undermined the east (downstream) end of the North Abutment footing. The footing is exposed up to full height for 7'-1" horizontally along the south face and 19" horizontally along the east face. The east corner is undermined for 21" horizontally along the south face, 10" horizontally along the east face, and up to 24 inches vertically (below the footing). During the previous 2017 inspection, the North Abutment footing was not exposed, but the photos show a large headcut in the streambed immediately downstream of the structure.

The scour has resulted in the following NBI coding changes:

- NBI Item 60 (Substructure): changed from an 8 to a 4
- NBI Item 61 (Channel): changed from a 7 to a 4

Due to the progression of the scour/headcut over the past 2 years, we are placing this structure on a 6-month inspection frequency.

Recommendations

Since the headcut is actively progressing upstream and has reached the structure foundations, we recommend rehabilitating the channel by installing a drop structure downstream of the bridge and then repairing the scour, headcut, and undermining of the north abutment. We recommend these repairs be completed as soon as possible.

Until these repairs can be made, we recommend taking the following actions:

- Ouray County staff should monitor the undermined North Abutment footing on a monthly basis and document any changes. If there are significant changes noted, notify Stantec and we may have to complete a follow up/emergency inspection.
- If repairs are not made prior to the spring 2020 runoff, we recommend closing this bridge during the spring runoff. After the runoff water recedes enough, Stantec will inspect this bridge again to assess if it is safe to reopen.

Let us know your Plan of Action

CDOT would like to know your plan of action to repair or mitigate the above conditions. Please respond to this ERL with a very brief plan of action that includes what repairs are planned and a general timeframe for when you expect repairs will be made.

Please let me know if you have any questions or if I can provide any additional information regarding this inspection.

Thank you for your time,

Adam Leith, PE
Associate, Transportation
Phone: 720-244-7078
Adam.Leith@Stantec.com

Classification and Prioritization

When identifying a needed repair as essential, the Bridge Inspection Program Manager will classify the repair based on the appropriate time frame for addressing the problem as follows:

Orange	Accomplish repairs within the timeframe specified by the memo or within 30 days maximum.
Yellow	Recommend accomplishing repairs within the next 90 days.
Green	Recommend accomplishing repairs within the next year or as funding allows.
Blue	Monitoring by maintenance in lieu of repairs. The type and frequency of monitoring as specified by the repair notice.



Photo 1 – Roadway looking north



Photo 2 – Elevation looking east



Photo 3 – Overview of channel headcut in 2019



Photo 4 – Overview of channel headcut in 2017 (from previous inspection report)



Photo 5 – The grouted riprap at along the east side of the structure (downstream side) is undermining up to 6 ft



Photo 6 – The east face of the North Abutment footing is exposed and undermined



Photo 7 – Close-up view of the undermined east corner of the North Abutment



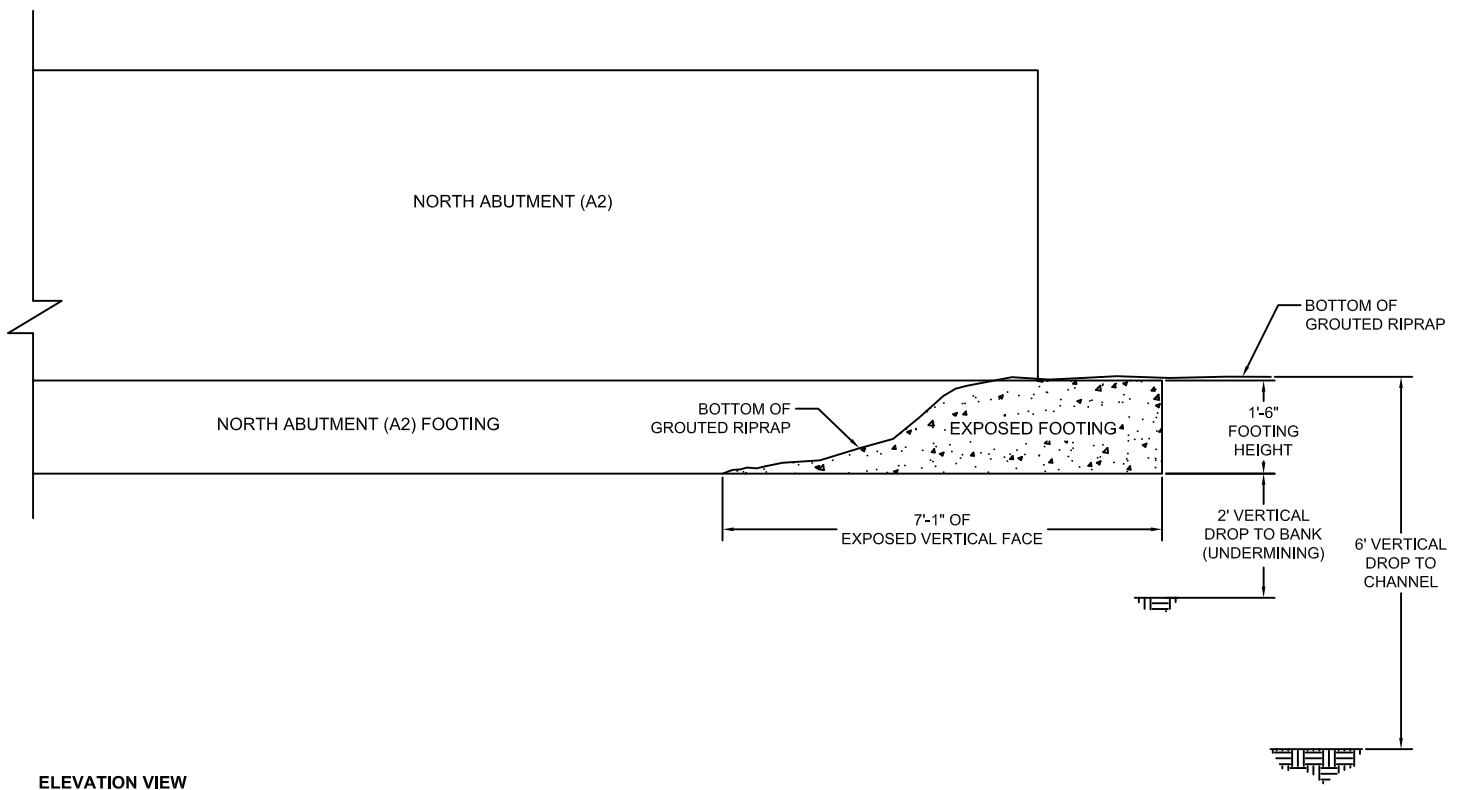
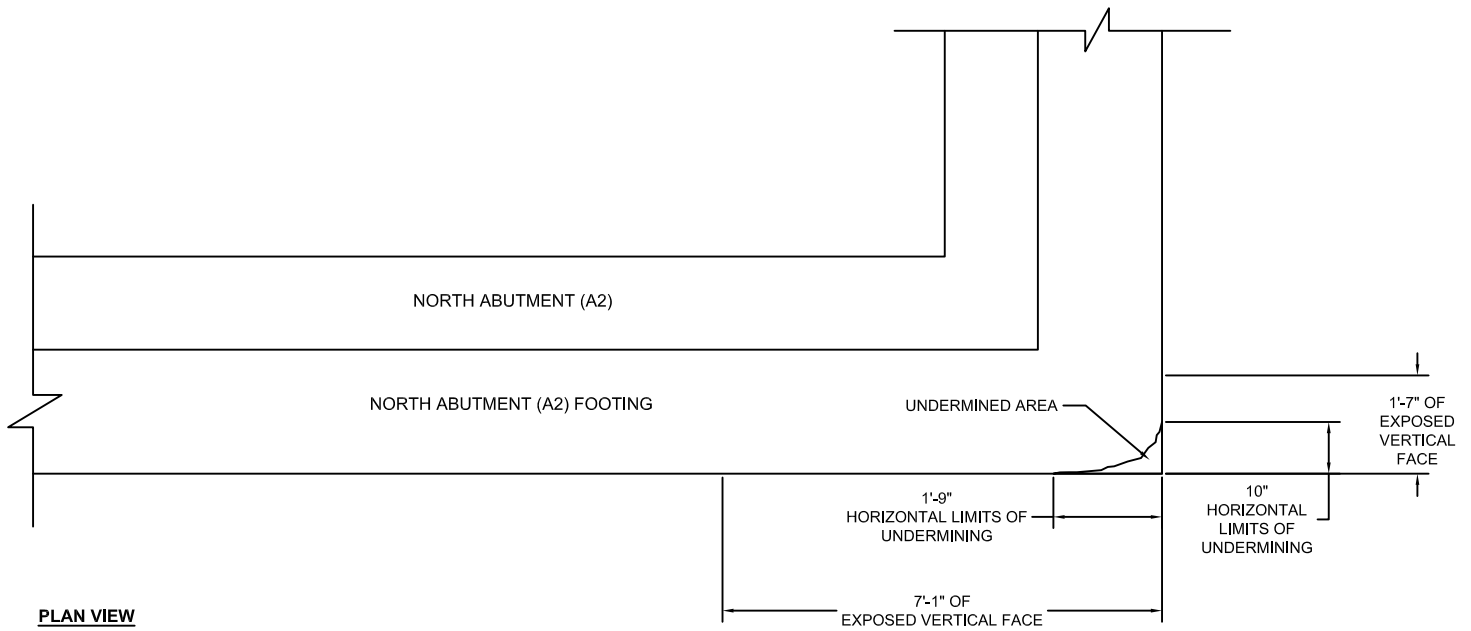
Photo 8 – The east corner of the North Abutment footing is undermined 24 inches vertically



Photo 8 – Overview of exposed footing showing measurements of the extent of undermining



Photo 8 – Close-up of exposed footing showing measurements of the extent of undermining



Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V
Mile Post (ON) 11: 0.000 mi
Linear Ref. Sys. MP: 0.000 mi

Bridge Key: OUR361-2.7-20 Inspection Date: 10/08/2019 Sufficiency Rating: 57.6 SD

NBI Reporting ID:	OUR361-2.7-20	Main Mat/Desgn 43A/B:	3	02	Bridge Cost 94:	\$0		
Rgn/Sect 2E/2M:	53	Appr Mat/Desgn 44A/B:	0	0	Roadway Cost 95:	\$0		
Tran Region 2T:	09	Main Spans Unit 45:	1		Total Cost 96:	\$0		
County Code 3:	091	Approach Spans 46:	0		Year of Cost Estimate 97:	1980		
091 OURAY		Horiz Clr 47:	24.20 ft		Brdr Brgd Code/% 98A/B:	-2	0	
Place Code 4:	00000	Max Span 48:	30.0 ft		Border Bridge Number 99:			
non-city		Str Length 49:	33.0 ft		Defense Highway 100:	0		
Rte.(On/Under) 5A:	1	Curb Wdth L/R 50A/B:	0.0 ft	0.0 ft	Parallel Structure 101:	N		
Signing Prefix 5B:	4	Width Curb to Curb 51:	24.20 ft		Direction of Traffic 102:	2		
Level of Service 5C:	1	Width Out to Out 52:	24.7 ft		Temporary Structure 103:	—		
Direction Suffix 5E:	0	Deck Area:	815		Highway Systems 104:	0		
Feature Intersected 6:		Min Clr Ovr Brgd 53:	99.99		Fed Lands Hiway 105:	0		
WEEHAWKEN CREEK		Min Undrclr Ref 54A:	N		Year Reconstructed 106:			
Facility Carried 7:		Min Underclr 54B:	0.0 ft		Deck Type 107:	1		
COUNTY ROAD 361		Min Lat Clrmce Ref R 55A:	N		Wearing Surface 108A:	1		
Alias Str No.8A:		Min Lat Undrclr R 55B:	0.0 ft		Membrane 108B:	0		
OUR-20		Min Lat Undrclr L 56:	0.0 ft		Deck Protection 108C:	8		
Prll Str No. 8P:		Deck 58:	7		Truck ADT 109:	0.00 %		
N/A		Super 59:	7		Trk Net 110:	0		
Location 9:		Sub 60:	4		Pier Protection 111:	!		
2.7 MI SW OF OURAY		Channel/Protection 61:	4		NBIS Length 112:	Y		
Max Clr 10:	99.99	Culvert 62:	N		Scour Critical 113:	4		
BaseHiway Net12:	0	Oprtnrg Rtg Method 63:	1 LF Load Facto		Scour Watch 113M:	N		
IrsinvRout 13A:	00000000000	Operating Rating 64:	235.1		Future ADT 114:	221		
IrssubRout No13B:	00	Operating Factor 64:	—		Year of Future ADT 115:	2037		
Latitude 16:	37d 59' 32.20"	Inv Rtnrg Method 65:	1 LF Load Facto		CDOT Str Type 120A:	CIK		
Longitude 17:	107d 42' 6.60"	Inventory Rating 66:	140.8		CDOT Constr Type 120B:	00		
Detour Length 19:	100 mi	Inventory Factor 66:	—		Inspection Indic 122A:	-		
Toll Facility 20:	3	Asph/Fill Thick 66T:	0.0 in		Inspection Trip 122AA:	Unknown		
Custodian 21:	02	Str. Evaluation 67:	4		Scheduling Status 122B:	—		
Owner 22:	02	Deck Geometry 68:	5		Maintenance Patrol 123:	0		
Functional Class 26:	09	Undrclr Vert/Hor 69:	N		Expansion Dev/Type 124:	O		
Year Built 27:	2004	Posting 70:	5 At/Above Lega		Brdg Rail Type/Mod 125A/B:	AB	2	
Lanes On 28A:	2	Waterway Adequacy 71:	7		Posting Trucks 129A/B/C:	184.2	283.4	295.3
Lanes Under 28B:	0	Approach Alignment 72:	6		Str Rating Date 130:	03/28/2017		
ADT 29:	152	Type Of Work 75A:	-2		Special Equip 133:	Unknown		
Year of ADT 30:	2017	Work Done By 75B:	!		Vert Clr N/E 134A/B/C:	X	99.99	0.00
Design Load 31:	0 Unknown	Length of Improvment 76:	0		Vert Clr S/W 135A/B/C:	X	99.99	0.00
Apr Rdwy Width 32:	24.00 ft	Insp Team Indicator 90B:	STANTEC		Vertical Clr Date:	01/01/1901		
Median 33:	0	Inspector Name 90C:	BOSWORTHK		Weight Limit Color 139:	0, White		
Skew 34:	0 °	Frequency 91:	6 months		Str Billing Type:	IIB		
Structure Flared 35:	0	FC Frequency 92A:			Userkey 1, Insp System:	OFFSYS		
Sfty Rail 36a/b/c/d:	0 0 0 0	UW Frequency 92B:			Userkey 4, Insp Sched:	South FY EVN		
Rail ht36h:	27.0 in	SI Frequency (Pin) 92C:			Userkey 5, UW Sched:			
Hist Signif 37:	5	FC Inspection Date 93A:			Userkey 6, Pin Sched:			
Posting status 41:	A	UW Inspection Date 93B:			Inspection Key:	VEEV		
Service on/un 42A/B:	1 5	SI Date (Pin) 93C:						

Inspection Type:	Regular NBI
Inspector Name:	BOSWORTHK

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

Element Inspection Report

Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
12/1	Re Concrete Deck	sq.ft	815	63%	515	37%	300	0%	0	0%	0

Concrete on galvanized corrugated metal stay-in-place forms with steel edge plate. Small spalls at north end due to grader impact, gravel along edges. Minor map cracking at center of bridge. Several longitudinal scrapes on deck.

1180/1	Abrasion	sq.ft	300	0%	0	100%	300	0%	0	0%	0
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See Element 12 comments.

107/1	Steel Opn Girder/Beam	ft	165	0%	0	100%	165	0%	0	0%	0
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(5) salvaged steel wide flange beams, multiple holes drilled through webs from previous connections. Light R1 to R1 rusting throughout. Ends of girders bear on elastomeric leveling pads and encased in concrete at abutments.

515/1	Steel Protective Coating	sq.ft	165	0%	0	0%	0	0%	0	100%	165
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Paint peeling, Girder C has almost no paint on west side, Girders A and E have no paint on exterior faces.

1000/1	Corrosion	ft	165	0%	0	100%	165	0%	0	0%	0
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See Element 107 comments.

215/1	Re Conc Abutment	ft	49	96%	47	4%	2	0%	0	0%	0
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Minor leakage at bearing elevation under exterior Girder A and E. Impending spalls at exterior corners of Girders A and E in Abutment 2 backwall.

1080/1	Delamination/Spall/Patchec	ft	2	0%	0	100%	2	0%	0	0%	0
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See Element 215 comments.

220/1	Re Conc Pile Cap/Ftg	ft	49	84%	41	0%	0	0%	0	16%	8
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Concrete abutment spread footings. There is a large 6 foot high headcut in the channel streambed at the downstream side of the structure. Over the past 2 years, scour has caused this headcut to travel upstream toward the bridge which has undermined and washed away a large portion of the grouted riprap at the downstream side of the structure. The scour has exposed and undermined the east (downstream) end of the North Abutment footing. The footing is exposed up to full height for 7'-1" horizontally along the south face and 19" horizontally along the east face. The east corner is undermined for 21" horizontally along the south face, 10" horizontally along the east face, and up to 24 inches vertically (below the footing). During the previous 2017 inspection, the North Abutment footing was not exposed, but the headcut was just downstream of the abutment.

6000/1	Scour	ft	8	0%	0	0%	0	0%	0	100%	8
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See Element 220 comments.

330/1	Metal Bridge Railing	ft	66	100%	66	0%	0	0%	0	0%	0
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Weathering steel W-beam rail with weathering steel double backing tubes on weathering steel wide flange posts, bolted to blocks, welded to exterior girder webs. Light rust patina developing as designed.

9325/1	Slope Prot/Berms	(EA)	2	100%	2	0%	0	0%	0	0%	0
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Grouted riprap in front of abutments and across channel.

9326/1	Bridge Wingwalls	(EA)	4	100%	4	0%	0	0%	0	0%	0
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Concrete, U-type. Sloughing at southwest wingwall encroaching 2 ft into roadway.

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

9341/1	Substr Conc Coating	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Tan coating on abutments and wingwalls peeling at corners of abutments and tops of wingwalls.

9501/1	Channel Cond	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Gravel, cobbles, some boulders with good alignment. South bank downstream is vertical and cutting back. Waterfall under structure with a 5 ft drop to channel.

9502/1	ChannProtMatCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
--------	------------------	------	---	------	---	----	---	----	---	----	---

Concrete-grouted riprap across channel just downstream of structure. There is a large 6 foot high headcut in the channel streambed at the downstream side of the structure. Over the past 2 years, scour has caused this headcut to travel upstream toward the bridge which has undermined and washed away a large portion of the grouted riprap at the downstream side of the structure. The scour has exposed and undermined the east (downstream) end of the North Abutment footing. During 2015 and 2017 inspections, headcut had 6 ft drop and 3 ft under cut but no exposed footing.

9504/1	BankCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Moderate slopes with a few trees.

9510/1	Waterway Adequ.	(EA)	1	100%	1	0%	0	0%	0	0%	0
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No evidence of recent overtopping.

9520/1	AppRdAlign	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Sharp curve to south, steep grade (typical of roadway), gravel. Low 1.5 inch at north with 2.5 inch deep pothole at center.

9530/1	Approach Guardrail A	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Weathering steel W-beam rail on weathering steel wide flange posts, blocked out, flared, with flared end sections. Too short, not gradually stiffened, end treatments not shielded and breakaway. Damage from snowplow at southeast and southwest corners. Minor damage at northeast and northwest rails.

9600/1	Genl Remarks	(EA)	1	100%	1	0%	0	0%	0	0%	0
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(2) steel utility conduits under bridge between Girders A and B. Double sided object markers on tall green posts at northwest and southeast corners.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Priority
**360.20	Substructure-Scour Mitigate	10/8/2019	<input type="checkbox"/>	2019	Urgent

Rehabilitate the channel and stabilize the large channel headcut by installing a drop structure downstream of the bridge then filling the voids undermining the north abutment.

151.01	Approach Roadway	10/8/2019	<input type="checkbox"/>	2020	Medium
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Regrade approaches to repair approach settlement at transitions onto bridge.

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

152.02	Drainage-Repair Washouts/Erosion	10/6/2009	1	2020	Medium
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Fill erosion on southwest corner.

306.05	Approach Railing	10/4/2011	1	2029	Low
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Modify/install transition, approach rails and rail ends to meet current AASHTO/CDOT standards.

306.09	Bridge Rail-Upgrade	10/4/2011	1	2029	Low
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Modify existing bridge rail to meet current AASHTO/CDOT standards.

Bridge Notes

2019-10, LEC and NEB - Item 113 to changed to 4, see OUR361-2.7-20 SCOUR Item 113 Change Request Memo - SIGNED 2019 10 22.pdf for more information.

Inspection Notes

Date - 10/8/2019
Temp: 39 degrees Time: 10:30 AM Weather: Clear, breeze

Scour Item 113 Documentation

OUR361-2.7-20 SCOUR Item 113 Change Request Memo - SIGNED 2019 10 22.pdf.
OUR361-2.7-20 SCOUR Item 113 Screening Memo 2016 04 20.pdf.

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

Scope:

☒ NBI ☒ Element ☐ Underwater ☐ Fracture Critical ☐ Other Type: Regular NBI

Team Leader Inspection Check-off:

☐ FCM's ☐ Vertical Clearance
☐ Posting Signs ☐ Stream Bed Profile
☐ Essential Repair Verification

Inspection Team: STANTEC

Inspection Date: 10/08/2019

Inspector: Unknown



Inspector (Team Leader): KAREN BOSWORTH

COLORADO DEPARTMENT OF TRANSPORTATION LOAD FACTOR RATING SUMMARY

Structure # OUR361-2.7-20
State Highway # County Road 361(26)
Batch I.D.
Structure Type CIK
Parallel Structure # N/A

Rated using:

Asphalt thickness: 0 in.

☒ Colorado legal loads

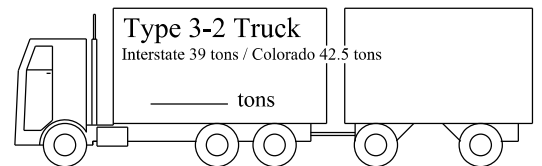
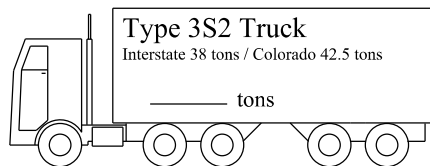
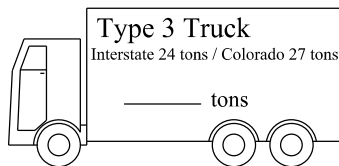
☐ Interstate legal loads

Structural Member	Int. Girder	Ext. Girder	Deck		
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Tons

Inventory	142.64	140.80	36.0		
Operating	238.21	235.13	40.0		

Type 3 truck	186.4	184.2			
Type 3S2 truck	286.8	283.4			
Type 3-2 truck	298.9	295.3			
Type SU4 truck (27T)					
Type SU5 truck (31T)					
Type SU6 truck (35T)					
Type SU7 truck (39T)					
NRL (40T)	215.5	212.9	40.0		
EV2 (28.75T)	253.7	196.7	28.75		
EV3 (43T)	252.5	196.0	43.0		
Permit Truck (96T) Single Lane D.F.					
Modified Tandem (50T) Single Lane D.F.					



Comments:

No asphalt or fill on 8" thick composite concrete deck on galvanized corrugated metal stay-in-place forms. Details of reinforcing are unknown; the deck rating is empirical based on its condition.

24'-8" O/O, 24'-2" R/R. (5) W36x135 steel girders spaced at 5'-8" spanning 31'-6" BRG/BRG; Fy = 36,000 psi, no skew.

NO POSTING REQUIRED

PE Seal



Rated by: (Print name and sign)

John Butt, PE

Date:

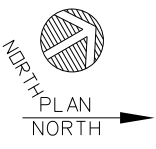
3/28/17

Checked by: (Print name and sign)

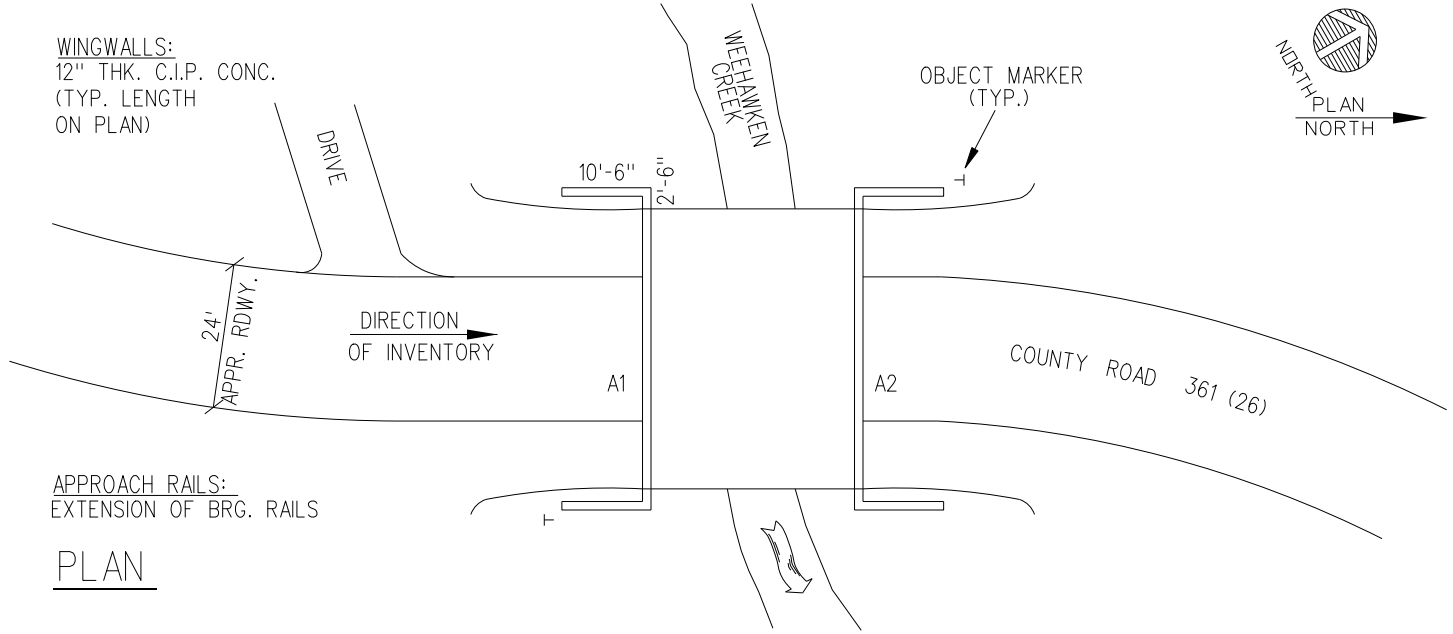
Nina Sass, PE

Date:

9/22/17

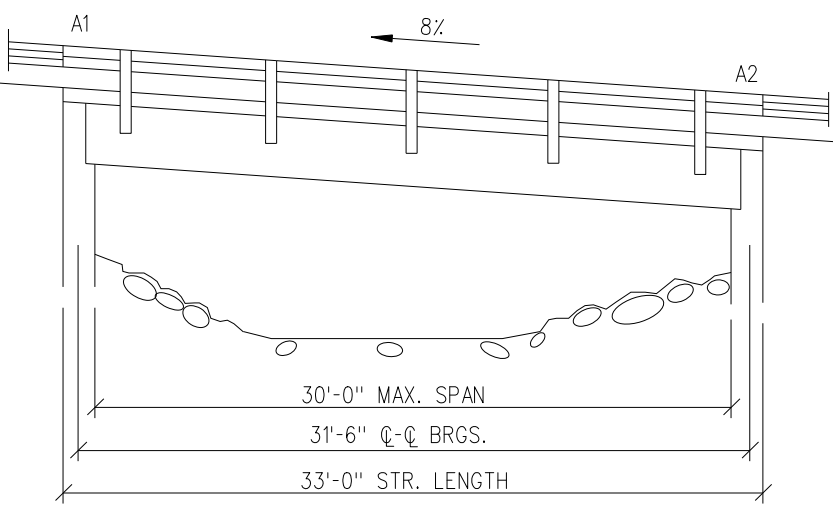


WINGWALLS:
12" THK. C.I.P. CONC.
(TYP. LENGTH
ON PLAN)



PLAN

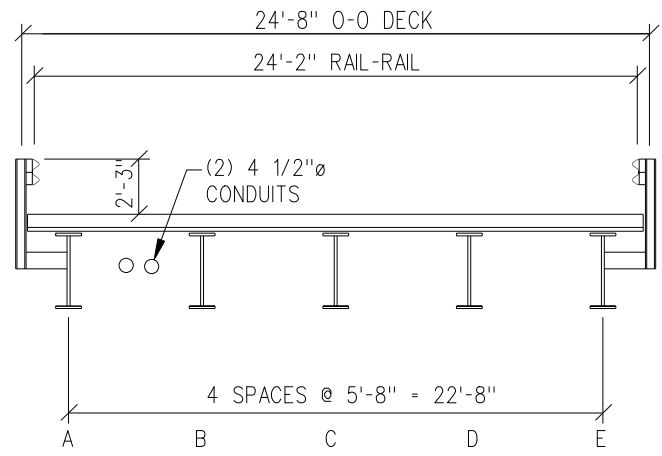
ABUTMENTS:
1'-6" THK. CAST-IN-
PLACE CONCRETE



ELEVATION
LOOKING WEST

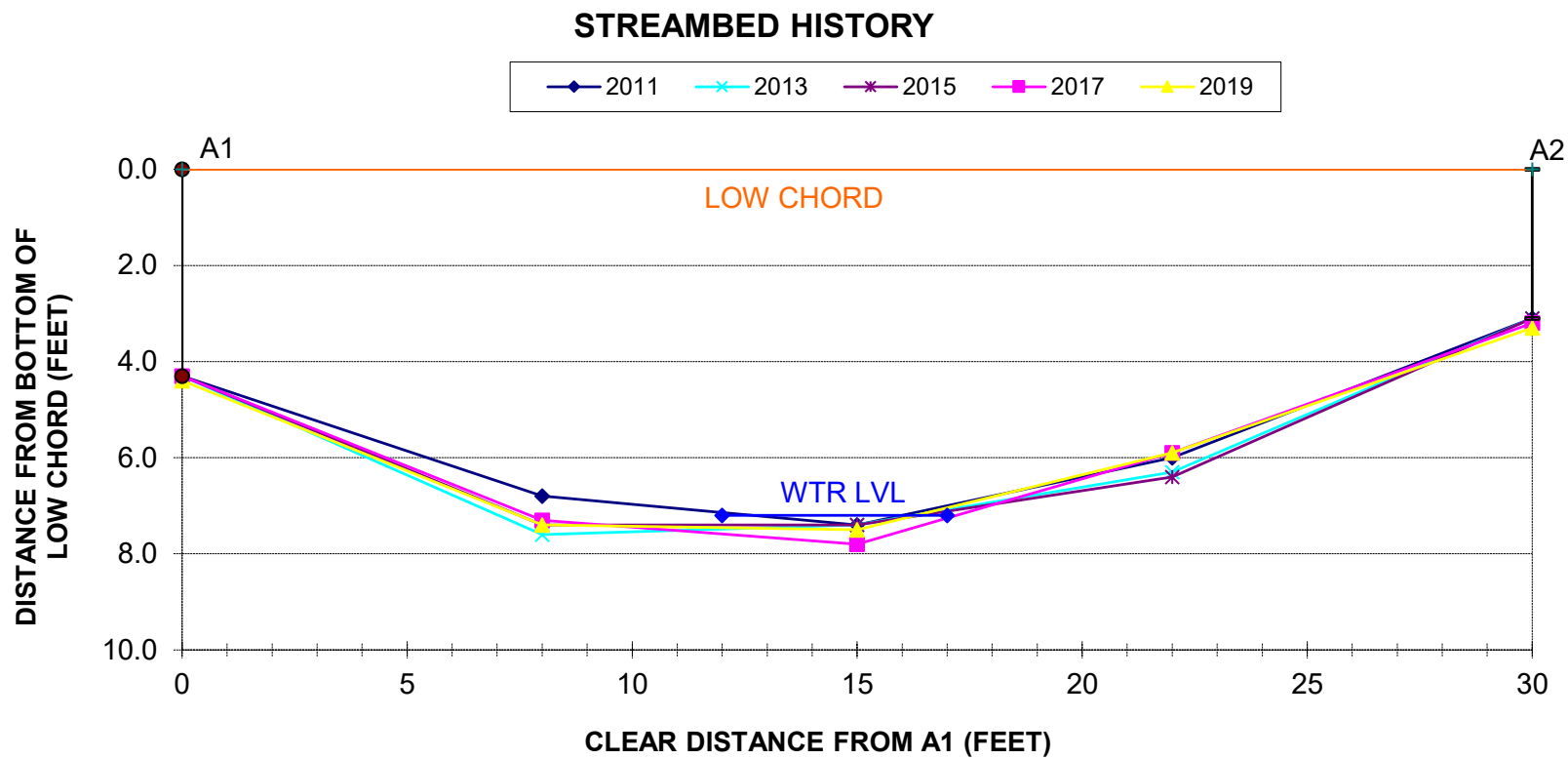
BRIDGE RAILINGS:
WEATHERING STEEL
W-BEAM RAIL WITH
(2) 2"x6" BACKING
TUBES ON STL. WF
POSTS (5/SIDE)

DECK:
8" THICK CONC. DECK
ON GALV. CORR. MTL.
STAY-IN-PLACE FORMS



GIRDERS:
(4) WF 35 1/2" DEEP x
12 1/8" WIDE (3/4" FLG.)

SECTION
LOOKING NORTH



	0	8	15	22	30
2011	4.3	6.8	7.4	6.0	3.1
2013	4.3	7.6	7.4	6.3	3.1
2015	4.3	7.4	7.4	6.4	3.1
2017	4.3	7.3	7.8	5.9	3.2
2019	4.4	7.4	7.5	5.9	3.3

WTR LVL
7.0
7.0
7.0
7.3
7.2

STRUCTURE NUMBER: OUR361-2.7-20
 INSPECTION DATE: 10/8/2019

PERFORMED BY: RB

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Roadway looking north



Elevation looking east

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



General looking north



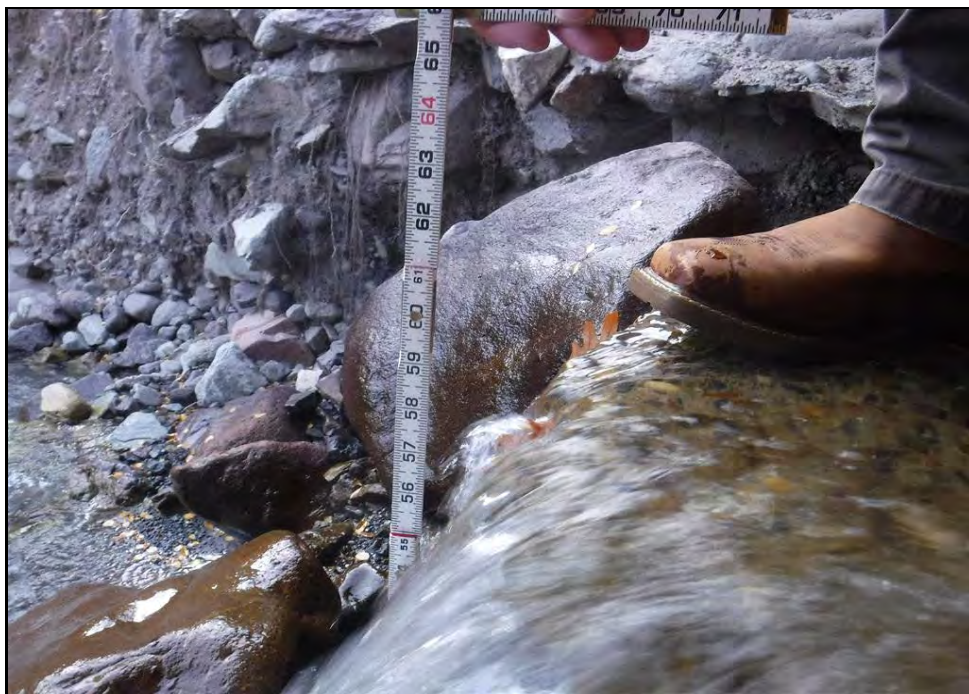
2.5 inch drop to roadway at north end

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Erosion at southwest wingwall



5 ft drop to channel at east side of structure

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Grouted rip rap at Abutment 2 undermined up to 6 ft vertically



East end of Abutment 2 footing undermined 10 inches horizontally to the north

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



East end of Abutment 2 footing undermined 24 inches vertically



East end of Abutment 2 footing undermined 7 ft 1 inch horizontally to the west

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Overview of scour at east side of structure



Channel looking upstream

Structure Number: **OUR361-2.7-20**
Facility Carried: **COUNTY ROAD 361**
Feature Intersected: **WEEHAWKEN CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Channel looking downstream

To: Lynn E Croswell, PE
CDOT Bridge Inspection Engineer

From: Adam Leith, PE
Associate, Transportation

Colorado Department of Transportation
2829 W. Howard Place
Denver, CO 80204

Stantec Consulting Services Inc.
2000 S. Colorado Blvd 2-300
Denver CO 80222

Date: October 22, 2019

Reference: NBI Item 113 Coding Change for Structure OUR361-2.7-20

The information below documents the background and basis for our request to change the NBI Item 113 coding for the above referenced structure. Additional attachments (if any) are noted.

Owner: Ouray County

County: Ouray County

Facility Carried: County Road 361

Feature Intersected: Weehawken Creek

Last Inspection Date: 1/10/2017

Current Item 113 Code: 8

New Inspection Date: 10/08/2019

Proposed Item 113 Code: 4

Basis for Recommendation: OUR361-2.7-20 is a single span structure with a concrete deck cast on steel wide flange girders founded on concrete wall abutments on spread footings. There is a large 6 foot high headcut in the channel streambed at the downstream side of the structure. Over the past 2 years, scour has caused this headcut to travel upstream toward the bridge which has undermined and washed away a large portion of the grouted riprap at the downstream side of the structure. The scour has exposed and undermined the east (downstream) end of the North Abutment footing. Due to the severe headcut and scout undermining the abutment spread footing, we recommend changing Scour Item 113 to 4.

Documentation Attached: Photos

Concurrence:

Lynn E Crosswell, CDOT Bridge Inspection Engineer

Date

Natasha Butler, CDOT Bridge Asset Management Engineer
Date



Photo 1 – Roadway looking north



Photo 2 – Elevation looking east



Photo 3 – 6 foot high headcut in channel at downstream side of bridge



Photo 4 – Grouted rip rap at Abutment 2 undermined up to 6 ft vertically, footing exposed



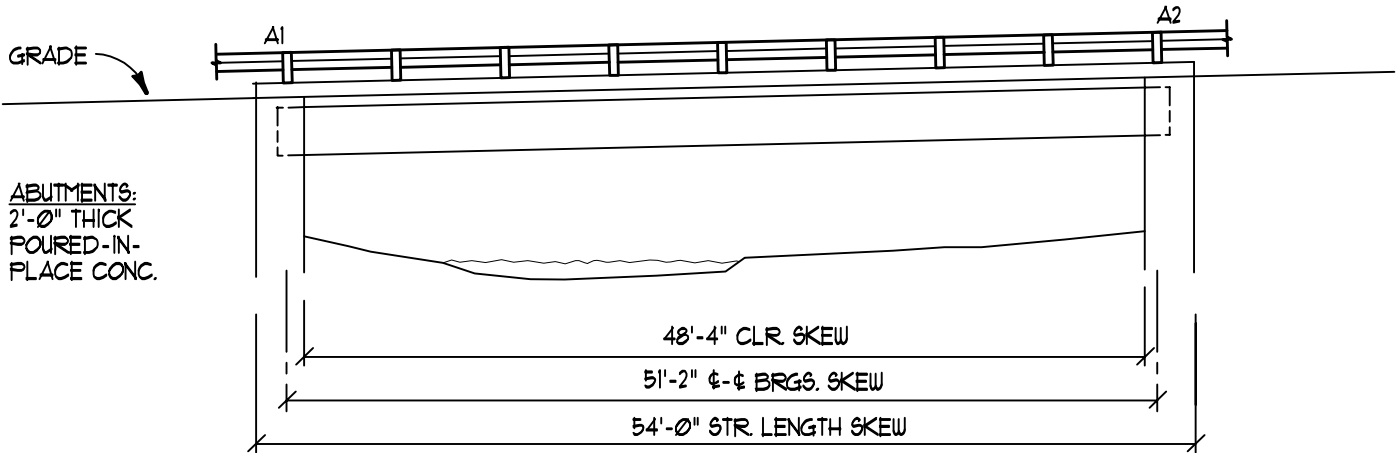
Photo 5 – East end of Abutment 2 footing undermined



Photo 6 – Close-up view of the undermined east corner of the North Abutment

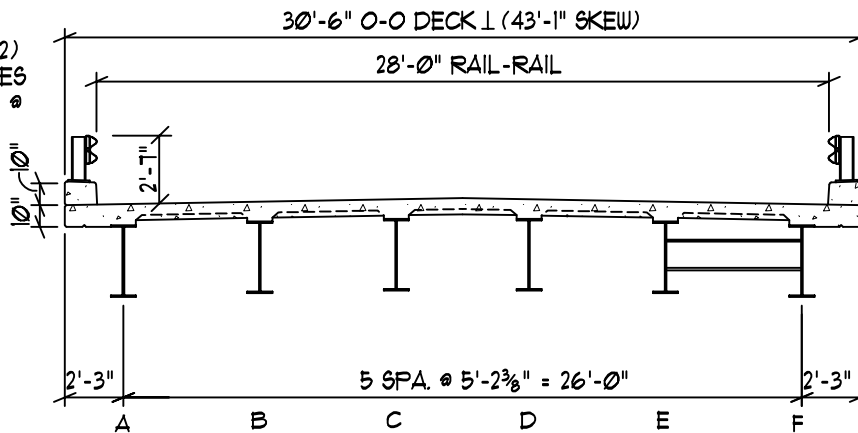
Thank you for your time,

Adam Leith, PE
Associate, Transportation
Phone: 720-244-7078
Adam.Leith@Stantec.com



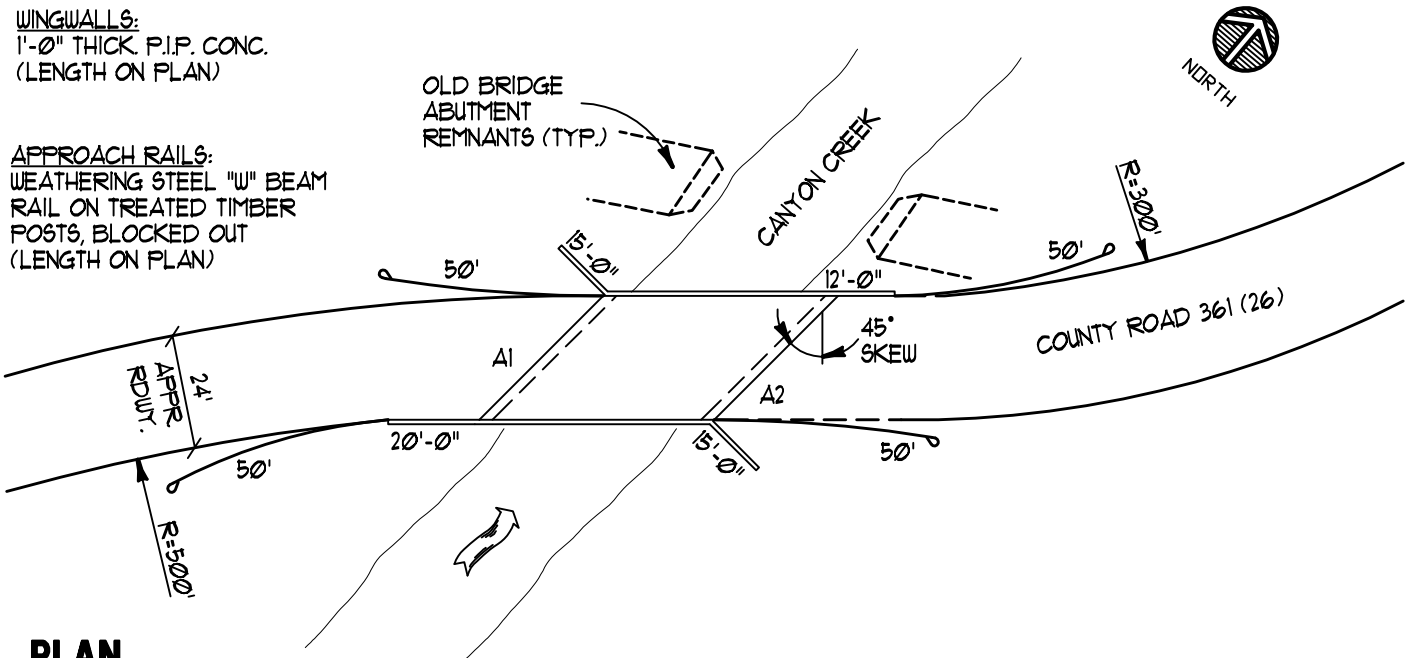
BRIDGE RAILINGS:
WEATHERING STEEL
"W" BEAM RAIL W/ (2)
2"x6" BACKING TUBES
ON WF 6"x6" POSTS @
6'-3" O.C. (9/SIDE)

DECK:
1 1/2" THICK P.I.P.
CONC. SLAB ON
CORR. MTL. S.I.P.
FORMS



WINGWALLS:
1'-0" THICK P.I.P. CONC.
(LENGTH ON PLAN)

APPROACH RAILS:
WEATHERING STEEL "W" BEAM
RAIL ON TREATED TIMBER
POSTS, BLOCKED OUT
(LENGTH ON PLAN)



Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V
Mile Post (ON) 11: 0.000 mi
Linear Ref. Sys. MP: 0.000 mi

Bridge Key: OUR26-0.1-12A Inspection Date: 10/08/2019 Sufficiency Rating: 93.5 ND

NBI Reporting ID:	OUR26-0.1-12A	Main Mat/Desgn 43A/B:	3	02	Bridge Cost 94:	\$0		
Rgn/Sect 2E/2M:	53	Appr Mat/Desgn 44A/B:	0	0	Roadway Cost 95:	\$0		
Tran Region 2T:	09	Main Spans Unit 45:	1		Total Cost 96:	\$0		
County Code 3:	091	Approach Spans 46:	0		Year of Cost Estimate 97:	1980		
091 OURAY		Horiz Clr 47:	28.00 ft		Brdr Brdg Code/% 98A/B:	-2	0	
Place Code 4:	00000	Max Span 48:	48.3 ft		Border Bridge Number 99:			
non-city		Str Length 49:	54.0 ft		Defense Highway 100:	0		
Rte.(On/Under) 5A:	1	Curb Wdth L/R 50A/B:	0.0 ft	0.0 ft	Parallel Structure 101:	N		
Signing Prefix 5B:	4	Width Curb to Curb 51:	28.00 ft		Direction of Traffic 102:	2		
Level of Service 5C:	1	Width Out to Out 52:	30.5 ft		Temporary Structure 103:	—		
Direction Suffix 5E:	0	Deck Area:	1647		Highway Systems 104:	0		
Feature Intersected 6:		Min Clr Ovr Brdg 53:	99.99		Fed Lands Hiway 105:	0		
CANYON CREEK		Min Undrclr Ref 54A:	N		Year Reconstructed 106:			
Facility Carried 7:		Min Underclr 54B:	0.0 ft		Deck Type 107:	1		
COUNTY RD 26 (361)		Min Lat Clrmce Ref R 55A:	N		Wearing Surface 108A:	8		
Alias Str No.8A:		Min Lat Undrclr R 55B:	0.0 ft		Membrane 108B:	0		
OUR-12A		Min Lat Undrclr L 56:	0.0 ft		Deck Protection 108C:	1		
Prll Str No. 8P:		Deck 58:	7		Truck ADT 109:	2.00 %		
N/A		Super 59:	7		Trk Net 110:	0		
Location 9:		Sub 60:	7		Pier Protection 111:	!		
1.9 MI SW OF OURAY		Channel/Protection 61:	7		NBIS Length 112:	Y		
Max Clr 10:	99.99	Culvert 62:	N		Scour Critical 113:	5		
BaseHiway Net12:	0	Oprtnrg Rtg Method 63:	1 LF Load Facto		Scour Watch 113M:	N		
IrsinvRout 13A:	00000000000	Operating Rating 64:	92.1		Future ADT 114:	282		
IrssubRout No13B:	00	Operating Factor 64:			Year of Future ADT 115:	2037		
Latitude 16:	38d 00' 6.20"	Inv Rtnrg Method 65:	1 LF Load Facto		CDOT Str Type 120A:	CIK		
Longitude 17:	107d 41' 38.90"	Inventory Rating 66:	55.2		CDOT Constr Type 120B:	00		
Detour Length 19:	100 mi	Inventory Factor 66:			Inspection Indic 122A:	-		
Toll Facility 20:	3	Asph/Fill Thick 66T:	0.0 in		Inspection Trip 122AA:	Unknown		
Custodian 21:	02	Str. Evaluation 67:	7		Scheduling Status 122B:	—		
Owner 22:	02	Deck Geometry 68:	6		Maintenance Patrol 123:	0		
Functional Class 26:	08	Undrclr Vert/Hor 69:	N		Expansion Dev/Type 124:	O		
Year Built 27:	1995	Posting 70:	5 At/Above Lega		Brdg Rail Type/Mod 125A/B:	W	0	
Lanes On 28A:	2	Waterway Adequacy 71:	7		Posting Trucks 129A/B/C:			
Lanes Under 28B:	0	Approach Alignment 72:	6		Str Rating Date 130:	01/23/1996		
ADT 29:	194	Type Of Work 75A:	-2		Special Equip 133:	Unknown		
Year of ADT 30:	2017	Work Done By 75B:	!		Vert Clr N/E 134A/B/C:	X	-1.00	-1.00
Design Load 31:	0 Unknown	Length of Improvment 76:	0		Vert Clr S/W 135A/B/C:	X	-1.00	-1.00
Apr Rdwy Width 32:	24.00 ft	Insp Team Indicator 90B:	STANTEC		Vertical Clr Date:	01/01/1901		
Median 33:	0	Inspector Name 90C:	BOSWORTHK		Weight Limit Color 139:	0, White		
Skew 34:	45 °	Frequency 91:	48 months		Str Billing Type:	IIB		
Structure Flared 35:	0	FC Frequency 92A:			Userkey 1, Insp System:	OFFSYS		
Sfty Rail 36a/b/c/d:	1 0 1 1	UW Frequency 92B:			Userkey 4, Insp Sched:	South FY EVN		
Rail ht36h:	31.0 in	SI Frequency (Pin) 92C:			Userkey 5, UW Sched:			
Hist Signif 37:	5	FC Inspection Date 93A:			Userkey 6, Pin Sched:			
Posting status 41:	A	UW Inspection Date 93B:			Inspection Key:	MVXQ		
Service on/un 42A/B:	1 5	SI Date (Pin) 93C:						

Inspection Type:	Regular NBI
Inspector Name:	BOSWORTHK

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

Element Inspection Report

Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
107/1	Steel Opn Girder/Beam	ft	324	98%	316	2%	8	0%	0	0%	0

Weathering steel wide flange beams with channel diaphragms at 1/3 points. Girders bear on elastomeric leveling pads and are encased in concrete. Light R1 rusting on exterior girders below deck drains where water is dripping on bottom flanges.

515/1	Steel Protective Coating	sq.ft	324	98%	316	0%	0	0%	0	2%	8
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Weathering steel. Patina forming as designed. Failed at rust locations.

1000/1	Corrosion	ft	8	0%	0	100%	8	0%	0	0%	0
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See element 107 comments.

215/1	Re Conc Abutment	ft	86	90%	77	10%	9	0%	0	0%	0
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Concrete. Vertical hairline to 0.05 inch wide cracks at both abutments. (5) on south (A1) extending from bearing elevation down to ground line. (4) on north abutment (A2) one extends into diaphragm and all others extend from bearing elevation to groundline.

1130/1	Cracking (RC and Other)	ft	9	0%	0	100%	9	0%	0	0%	0
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See Element 215 comments.

330/1	Metal Bridge Railing	ft	108	100%	108	0%	0	0%	0	0%	0
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Weathering steel W-beam with two painted steel backing tubes on weathering steel posts bolted to top of curb. Minor plow damage on W-beam rail.

9023/1	Bare Conc Dk w/Brs	(SF)	1647	99%	1627	1%	20	0%	0	0%	0
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Concrete on galvanized corrugated metal stay-in-place forms. 0-1 inch gravel throughout. Hairline cracks in deck overhang, with light efflorescence.

9325/1	Slope Prot/Berms	(EA)	2	50%	1	50%	1	0%	0	0%	0
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Native cobbles and boulders in front of abutments. Reworked in 2011.

9326/1	Bridge Wingwalls	(EA)	4	100%	4	0%	0	0%	0	0%	0
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Concrete, flared at southwest and northeast, U-type at northwest and southeast. 1 ft x 5 inch x 1 inch deep spall at northeast and northwest wingwall ends.

9338/1	Conc Curbs/SW	(LF)	108	98%	106	2%	2	0%	0	0%	0
--------	---------------	------	-----	-----	-----	----	---	----	---	----	---

Concrete curbs. Minor vertical and transverse cracks with light efflorescence. (2) 8 inch x 5 inch x 1/4 inch deep spalls, gravel covered in 2019. Scrapes in random locations from plows.

9340/1	Superstr Cnc Coating	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Gray-colored coating on curbs and exterior of deck.

9341/1	Substr Conc Coating	(EA)	1	100%	1	0%	0	0%	0	0%	0
--------	---------------------	------	---	------	---	----	---	----	---	----	---

Gray-colored coating on abutments and wingwalls. No coating on bottom of Abutment 1 for lower 2 ft to 4 ft, evidence of possible erosion or scour.

9501/1	Channel Cond	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Boulders and cobbles. Channel being reworked at time of 2011 inspection.

9502/1	ChannProtMatCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Native boulders and cobbles, stone masonry and gabion abutments from old bridge on downstream side. Provides adequate protection.

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

9504/1	BankCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Boulders and cobbles, lined with trees.

9510/1	Waterway Adequ.	(EA)	1	100%	1	0%	0	0%	0	0%	0
--------	-----------------	------	---	------	---	----	---	----	---	----	---

No evidence of recent overtopping.

9520/1	AppRdAlign	(EA)	1	100%	1	0%	0	0%	0	0%	0
--------	------------	------	---	------	---	----	---	----	---	----	---

Bridge is on slight S curve, gravel. Slightly rough. Shoulders: Low at northeast.

9530/1	Approach Guardrail A	(EA)	1	100%	1	0%	0	0%	0	0%	0
--------	----------------------	------	---	------	---	----	---	----	---	----	---

Approach rail: Weathering steel W-beam rail on treated timber posts, clocked out, flared with shielded end sections. Transitions not gradually stiffened or double nested. Northwest approach rail is damaged for 21 ft with (1) broken post and all offset blocks twisted. Northeast approach rail has impact damage throughout with (1) missing offset block. Southeast approach rail has minor impact damage. Southwest approach rail has major impact damage and is no longer functioning.

9600/1	Genl Remarks	(EA)	1	100%	1	0%	0	0%	0	0%	0
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Two utility conduits mounted between Girders A and B. Missing supplemental delineation panels at all (4) corners.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Priority
302.00	Misc-Install Sign	10/8/2019	_	2021	Low

Install supplemental delineation panels at all (4) corners.

306.00	Approach Railing	10/8/2019	_	2029	Low
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Modify approach railing transitions to meet current AASHTO/CDOT standards.

306.08	Approach Railing-Repair	10/4/2011	1	2020	High
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Repair damaged approach rails.

352.2	Deck-Wash	1/8/2004	1	2020	Low
-------	-----------	----------	---	------	-----

Remove dirt and gravel from bridge deck, during normal grading operations.

Routine Inspection
Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: 0.000 mi

Linear Ref. Sys. MP: 0.000 mi

353.06	Drainage-Correct Deck Drainage	1/8/2004	1	2021	Medium
--------	--------------------------------	----------	---	------	--------

Extend deck drain pipes so they extend below the bottom of the girders to prevent water and debris from collecting on bottom flanges.

Bridge Notes

Maintenance of the channel was underway during 2011 inspection. Channel now travels straight through structure.

Inspection Notes

Date - 10/8/2019

Temp: 39 degrees Time: 11:40 AM Weather: Clear, calm

Scour Item 113 Documentation

OUR26-0.1-12A SCOUR Item 113 Screening Memo 2016 04 20.pdf

Scope:

☒ NBI ☒ Element ☐ Underwater ☐ Fracture Critical ☐ Other Type: Regular NBI

Team Leader Inspection Check-off:

<input type="checkbox"/> FCM's	<input type="checkbox"/> Vertical Clearance
<input type="checkbox"/> Posting Signs	<input type="checkbox"/> Stream Bed Profile
<input type="checkbox"/> Essential Repair Verification	

Inspection Team: STANTEC

Inspection Date: 10/08/2019

Inspector: Unknown



Inspector (Team Leader): KAREN BOSWORTH

COLORADO DEPARTMENT OF TRANSPORTATION LOAD FACTOR RATING SUMMARY

Rated Using:

Asphalt Thickness: -0- mm (-0- in.)

☒ Colorado Legal Loads

☐ Interstate Legal Loads

Structure # OUR26-0.1-12A

Abbr. Str. # OUR-12A

Road or Street # County Road 26

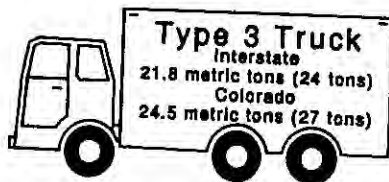
Batch I.D.

Structure Type CIK

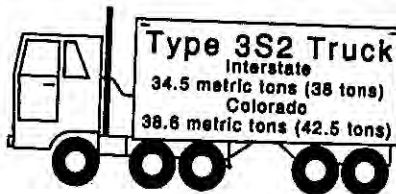
Parallel Structure # N/A

Structural Member	DECK		GIRDER			
	Metric Tons	(Tons)	Metric Tons	(Tons)	Metric Tons	(Tons)
Inventory MS 18 (HS20)	50.0	(55.2)	65.4	(72.2)		
Operating MS 18 (HS20)	83.5	(92.1)	109.4	(120.6)		

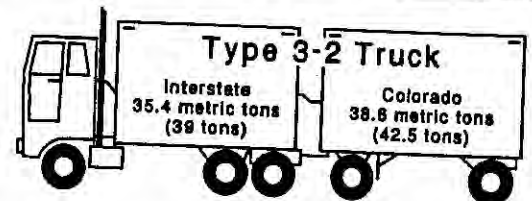
Type 3 Truck				
Type 3S2 Truck				
Type 3-2 Truck				
Permit Truck				



Metric Tons (Tons)



Metric Tons (Tons)



Metric Tons (Tons)

Comments:

2" fill on 7 1/2" thick composite concrete deck, $f'_c = 4,500$ psi, $f_y = 60,000$ psi;

Girder rated is interior W33x118, spanning 51'-2" and spaced at 5'-2 3/8" $F_y = 50,000$ psi.

NO POSTING REQUIRED

BRIDGE RE-INSPECTED BUT NOT RE-RATED BY ALFRED
BENESCH & CO. 2013 BRIDGE REINSPECTED BUT NOT
RERATED BY LONCO, INC. 2011

Rated By:

Todd Stueve

Date:

1/23/96

Checked By:

Jim Inglis

Date:

2/15/96

INSPECTED BUT NOT RATED

SEH, INC.

By:

Date:

WINGWALLS:
1'-0" THICK. P.I.P. CONC.
(LENGTH ON PLAN)

APPROACH RAILS:
WEATHERING STEEL "W" BEAM
RAIL ON TREATED TIMBER
POSTS, BLOCKED OUT
(LENGTH ON PLAN)

OLD BRIDGE
ABUTMENT
REMNANTS (TYP.)



PLAN

GRADE

ABUTMENTS:
2'-0" THICK
POURED-IN-
PLACE CONC.

ELEVATION

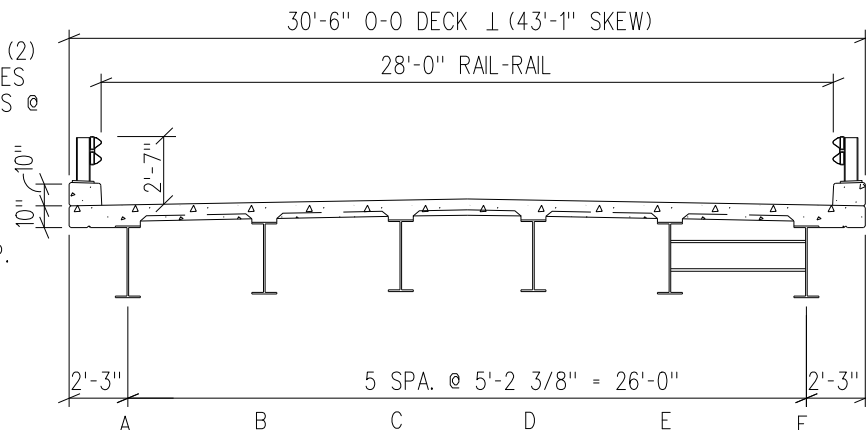
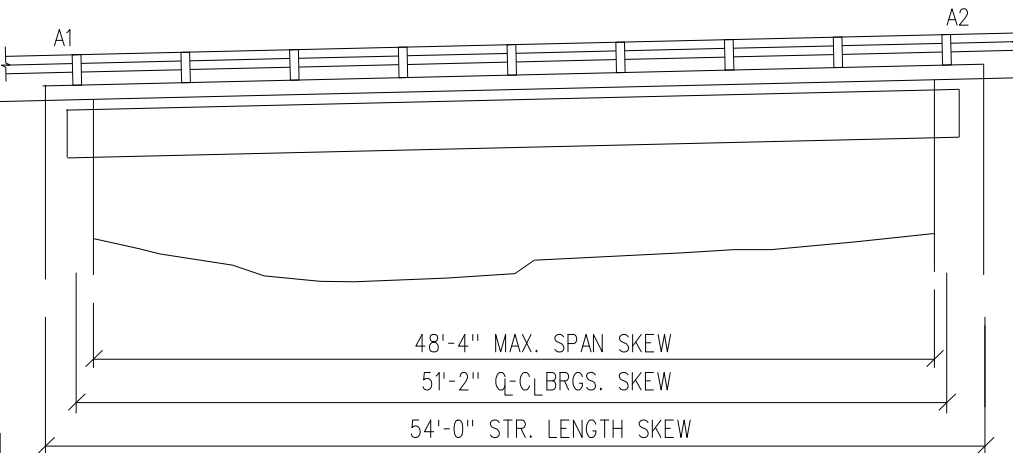
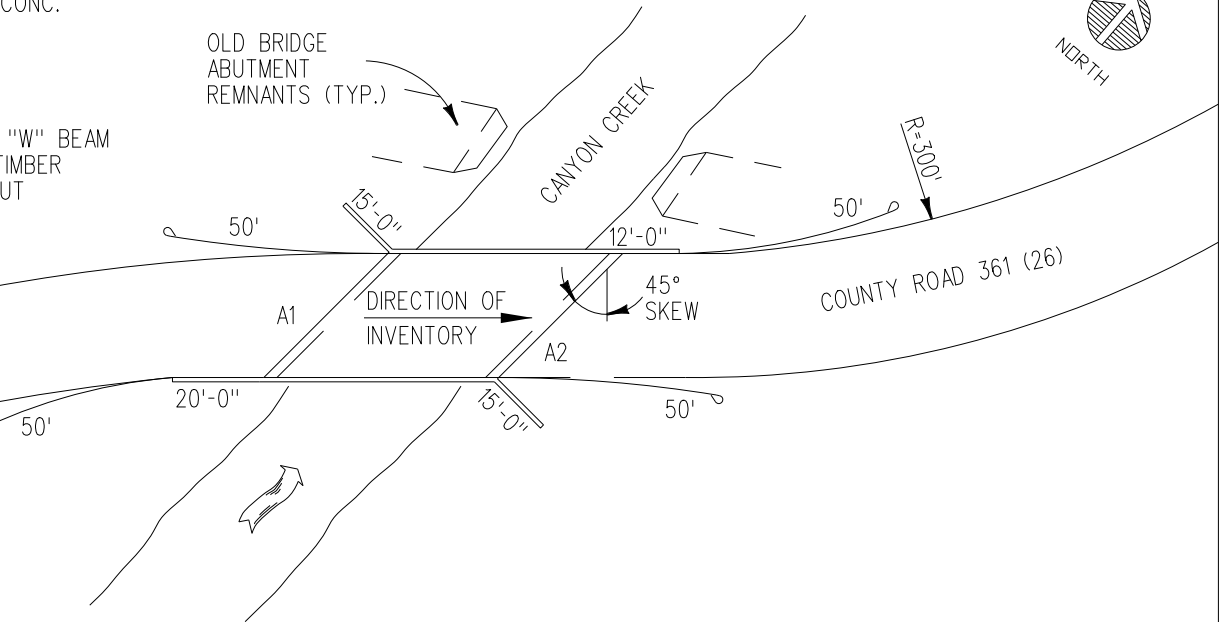
LOOKING WEST

BRIDGE RAILINGS:
WEATHERING STEEL
"W" BEAM RAIL W/ (2)
2"x6" BACKING TUBES
ON WF 6"x6" POSTS @
6'-3" O.C. (9/SIDE)

DECK:
7 1/2" THICK P.I.P.
CONC. SLAB ON
CORR. MTL. S.I.P.
FORMS

SECTION

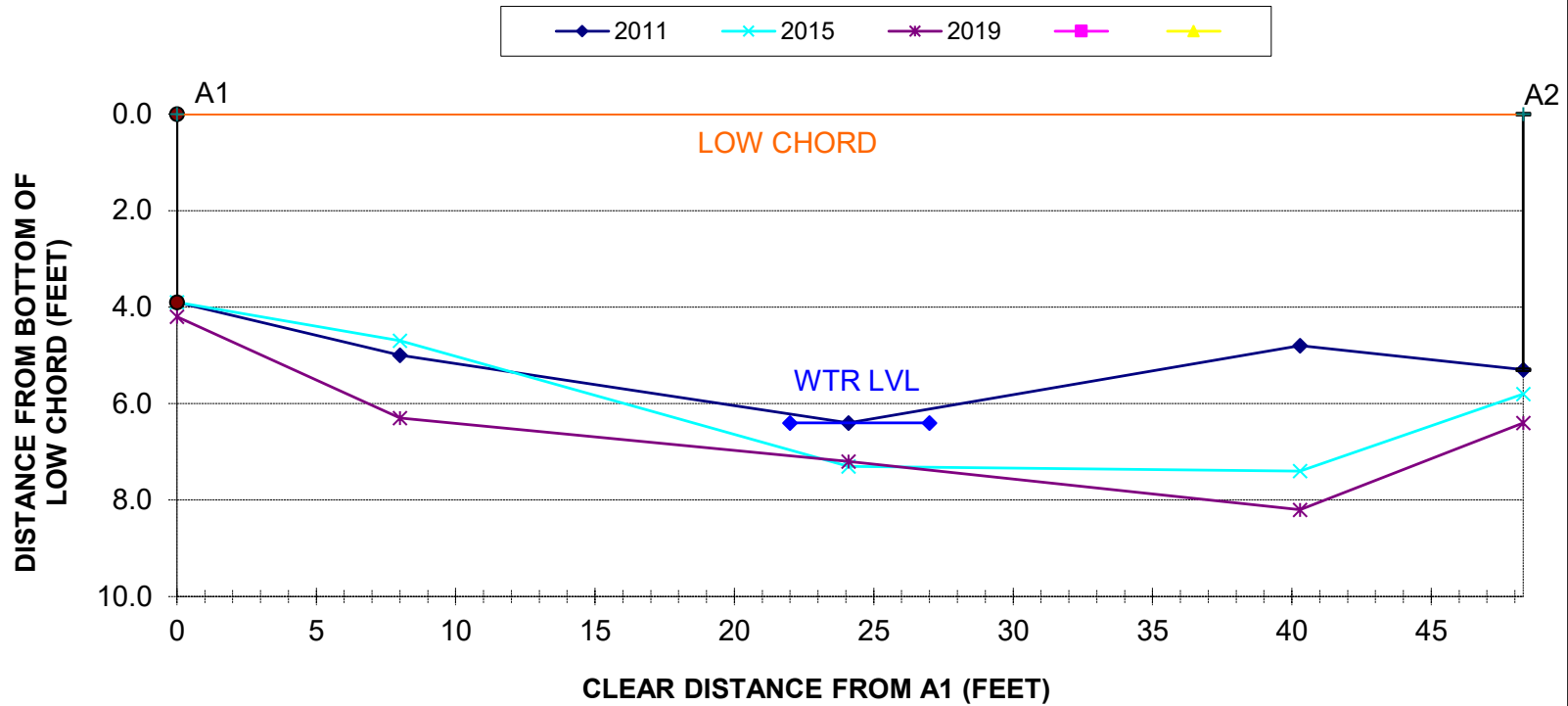
LOOKING NORTH



GIRDERS:
(6) WF 32 7/8"x 11 1/2"
(3/4" FLG.)

DIAPHRAGMS:
C 12 X 20.7
@ 1/3 POINTS

STREAMBED HISTORY



	0	8	24.1	40.3	48.3
2011	3.9	5.0	6.4	4.8	5.3
2015	3.9	4.7	7.3	7.4	5.8
2019	4.2	6.3	7.2	8.2	6.4

WTR LVL
5.1
5.1
6.4

STRUCTURE NUMBER: OUR26-0.1-12A
 INSPECTION DATE: 10/8/2019

PERFORMED BY: RB

Structure Number: **OUR26-0.1-12A**
Facility Carried: **COUNTY RD 26 (361)**
Feature Intersected: **CANYON CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Roadway looking north



Elevation looking west

Structure Number: **OUR26-0.1-12A**
Facility Carried: **COUNTY RD 26 (361)**
Feature Intersected: **CANYON CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



General looking north



Damage of southwest rail

Structure Number: **OUR26-0.1-12A**
Facility Carried: **COUNTY RD 26 (361)**
Feature Intersected: **CANYON CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



R1 corrosion of girder below deck drain



Approach rail transitions have inadequate post spacing and are not double nested

Structure Number: **OUR26-0.1-12A**
Facility Carried: **COUNTY RD 26 (361)**
Feature Intersected: **CANYON CREEK**

Owner: **Ouray County**
Inspection Date: **10/8/2019**



Channel looking upstream



Channel looking downstream

Appendix E.

City of Ouray Water System Equivalent Residential Units and Customer Accounts

Report Criteria:

Customer.Final Bill Date = {Is NULL}

Billing.Temporary Disconnect Date = {Is NULL}

Billing.Units = {>} 0

Service.Service Number = 1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1797.02	3 Goats LLLP	400 Main St	13.3000	Yes	1
1242.02	3JE Holdings, Limited	323 3rd Ave	1.0000	Yes	1
1067.02	5th Ave LLC	125 5th Ave Ct	1.0000	Yes	1
1295.03	Abram Inn/Matterhorn	405-407 Main St	4.7500	Yes	1
1650.02	Abrams Investments LLC	621 Main St	2.2000	Yes	1
1302.02	Albritton, Steve and Heidi	414 Main St	1.0000	Yes	1
1227.01	Allison Trust	315 5th St	1.0000	Yes	1
1505.01	Allison, Ernestine	628 1/2 4th St	1.0000	Yes	1
1773.01	Alpenglow Condo, Mt Sneffels /	215 5th Ave, Unit 8	1.0000	Yes	1
1774.01	Alpenglow Condo, White House /	215 5th Ave, Unit 9	1.0000	Yes	1
1775.01	Alpenglow Condo, Wilson Peak /	215 5th Ave, Unit 15	1.0000	Yes	1
1776.01	Alpenglow Condo, Wilson Peak /	215 5th Ave, Unit 16	1.0000	Yes	1
1777.01	Alpenglow Condo, Wilson Peak /	215 5th Ave, Unit 17	1.0000	Yes	1
1610.01	Alpine Bank	917 Main St	1.5000	Yes	1
1747.03	Anderson, David & Donna	1300 Oak St	1.0000	Yes	1
1138.01	Andrews, Robert	2101 Main St, A-1	1.0000	Yes	1
1537.01	Armstrong, Alden A	707 5th St	1.0000	Yes	1
1292.01	Armstrong, Alden A	403 6th St	1.0000	Yes	1
1041.03	Arno Grether Trust	111 Ouray Vista Ln	1.0000	Yes	1
1282.03	Arrowbear, Inc	118 6th Ave	2.7600	Yes	1
1043.01	Ast, John R. & Virginia J.	112 Ouray Vista Ln	1.0000	Yes	1
1615.01	Augustitus, Tom	95 6th Ave	1.0000	Yes	1
1350.02	Avery, Karen and Richard	45 3rd Ave	11.7000	Yes	1
1637.01	Bachelor Switch WUA	Bachelor Switch (1637)	130.0000	No	1
1159.03	Backstreet Bistro LLC	219 7th Ave	2.9000	Yes	1
1323.02	Baggett, J.D.	426 Main St	10.1300	Yes	1
1362.02	Baggot, Patrick & Renee	790 Oak St, 4J 13E	1.0000	Yes	1
1021.03	Bailey, Billy James	107 Fedel Ct	1.0000	Yes	1
1524.01	Baker, Billy	645 4th St	1.0000	Yes	1
1472.01	Baker, Cecil	550 8th Ave	1.0000	Yes	1
1336.01	Baker, Mike	435 5th St	1.0000	Yes	1
1060.02	Bale, James D Morton III & Sharon	1241 Park Rd	1.0000	Yes	1
1348.01	Bangert, Monica	445 6th Ave	1.0000	Yes	1
1092.01	Barker, Warren & Phyllis	1484 Oak St	1.0000	Yes	1
1447.02	Bates, Crandall	536 2nd St	1.0000	Yes	1
1297.02	Bates, Creighton John	408 6th Ave	1.0000	Yes	1
1239.01	Bates, Lee & Kathy	322 Main St	1.0000	Yes	1
1389.02	Bauer, Thomas & Paula	500 Sky Jal Court	1.0000	Yes	1
1450.02	Baum, Stephen & Melissa	537 6th St	1.0000	Yes	1
1779.03	Baxter, Thomas E.	708 Main St, 2	1.0000	Yes	1
1470.02	Bazin, Michael and Wendy	55 4th Ave	1.8600	Yes	1
1702.02	Bazin, Michael and Wendy	80 4th Ave	1.0000	Yes	1
1772.02	BCE Inc c/o Grant Carlson	215 5th Ave, Unit 7	1.0000	Yes	1
1628.02	BCE, Inc	215 5th Ave, 6	1.0000	Yes	1
1803.01	Bell Haus LLLP	929 Main St	2.5000	Yes	1
1375.04	Bell, Richard & Theresa	790 Oak St, 4J 4E	1.0000	Yes	1
1245.02	Benton Building, LLLP	325 6th Ave	3.0000	Yes	1
1474.02	Bertisen, Jasper & Anita	555 8th Ave	1.0000	Yes	1
1102.02	Bettin, C	1524 Oak St	1.0000	Yes	1
1582.02	Bianciotto, Heather	809 4th St	1.0000	Yes	1
1201.03	Biolchini, Patrick & Patricia	302 Queen St	1.0000	Yes	1
1461.01	Blythe, Linda	550 Sky Jal Court	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1677.02	Bobak, Carla Wilson & Nicholas	107 Ouray Vista Ln	1.0000	Yes	1
1009.03	Bodker, Alisa C	100 8th Ave	1.0000	Yes	1
1390.01	Boettger, Kristin	501 6th St	1.0000	Yes	1
1180.01	Bohdal, Kenneth W	229 4th St	1.0000	Yes	1
1512.01	Bolen, Joel	420 Mother Lode Lane	2.0000	No	1
1606.01	Boles, Sandra	846 4th St	1.0000	Yes	1
1492.02	Bonatti, Christina	615 2nd St	1.0000	Yes	1
1721.02	Booth, Clinton	1492 Oak St	1.0000	Yes	1
1714.03	Borowski, Roberta L.	92 4th Ave	1.0000	Yes	1
1372.02	Botz, Christina	790 Oak St, 4J 32W	1.0000	Yes	1
1181.03	Bourrod, Natakit	231 2nd St	1.0000	Yes	1
1037.02	Boyd, Robert Glenn	109 5th Ave Ct - Unit K	1.0000	Yes	1
1063.04	Bracci, Ryan & Joan	1244 Champ Ln	1.0000	Yes	1
1532.01	Brad Clark Enterprises Inc	700 Main St	.3000	Yes	1
1130.01	Braden, Debra	203 4th St	1.0000	Yes	1
1781.02	Brand, Stephen & Gayle	708 Main St, 4	1.0000	Yes	1
1052.02	Brekke, Sherrill	119 Hayden View Cr	1.0000	Yes	1
1061.03	Brennan, John & Karen	1242 Champ Ln	1.0000	Yes	1
1718.02	Brickie, Wayne	1472 Oak St	1.0000	Yes	1
1011.03	Briggs, Brain & Carrie	100 Spruce Ct, Unit A	1.0000	Yes	1
1778.02	Brock, Alan	708 Main St, 1	1.0000	Yes	1
1586.03	Brodbeck, Lance & Sandra	812 2nd St	1.0000	Yes	1
1157.02	Browder, Isaac and Pattie	219 4th Ave, C	1.0000	Yes	1
1513.02	Brown, Dennis & Karla	632 4th St	1.0000	Yes	1
1137.02	Brown, Randal & Marian	2101 Main St, C-3	1.0000	Yes	1
1467.03	Brown, Susan Wells & Logan	546 Oak St	1.0000	Yes	1
1042.01	Brucker, William & Jan	169 Fedel Ct	1.0000	Yes	1
1462.01	Brummett, Claudia	536 Sky Jal Court	1.0000	Yes	1
1431.01	Brummett, Claudia	528 Sky Jal Court	1.0000	Yes	1
1212.01	Bryant, Ralph	400 3rd Ave	2.0000	Yes	1
1769.04	Bucheleres, Gena Tennyson & William	215 5th Ave, Unit 11	1.0000	Yes	1
1326.02	Bucknam, Robert & Gayle	429 5th St	1.0000	Yes	1
1258.02	BURE Group LLC	332 4th Ave	1.0000	Yes	1
1226.03	Burgess, Jeff	315 4th St	1.0000	Yes	1
1144.01	Burns, Lynda	2101 Main St, C-2	1.0000	Yes	1
1364.02	Burran, Devlin	790 Oak St, 4J 16E	1.0000	Yes	1
1734.04	Bush, Timothy & Krista	1907 Main St	1.0000	Yes	1
1523.02	Buxton, Mary Ann	645 2nd St	1.0000	Yes	1
1565.01	Caldwell, Patricia M	745 Main St	1.0000	Yes	1
1553.01	Calhoon, Claudia	731-735 Main St	1.2000	Yes	1
1551.01	Calhoon, Dave	729 Main St	1.0000	Yes	1
1528.01	Calvary Community Church	680 2nd St	3.7000	Yes	1
1824.01	Camacho, Carlos	1237 Park Rd, B-4	1.0000	Yes	1
1597.03	Camp Runamuck LLC	830 4th St	1.0000	Yes	1
1700.01	Campbell, Tommy	1308 Main St, 4	1.0000	Yes	1
1806.01	Campbell, Tommy & Alma	1274 Main Street	1.0000	Yes	1
1356.05	Canfield, Casey	790 Oak St, 4J 27W	1.0000	Yes	1
1240.02	Cannizzaro, Carl & Linda	322 Oak St	1.0000	Yes	1
1053.04	Cargoes, LLC	120 6th Ave	5.7500	Yes	1
1780.03	Carkin, Mary	708 Main St, 3	1.0000	Yes	1
1811.01	Carkin, Mary	720 Main Street	.3000	Yes	1
1448.03	Carlile, Janet	536 3rd Ave	1.0000	Yes	1
1191.01	Carrick, Robert D	247 4th St	1.0000	Yes	1
1549.01	Cartier, Dr. Jack	727 4th St	1.0000	Yes	1
1346.02	Cascade at 8th Ave LLC	444 8th Ave	2.0000	Yes	1
1425.02	Cawfield, Gregg & Jannette	524 3rd Ave	1.0000	Yes	1
1825.01	CG & A Properties	231 Queen Street	1.0000	Yes	1
1683.03	Chateau Charmont LLC	1900 Main St	7.9000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1134.03	Chehayl, Dan	210 4th Ave	1.0000	Yes	1
1818.02	Choate, Kane Marschall & Alison	1720 Hinkson Terrace	1.0000	Yes	1
1485.02	Choate, Paul & Alison	610 Main St	5.0000	Yes	1
1799.01	Chowdry, Julie	1282 Oak St	1.0000	Yes	1
1479.01	Citizens State Bank	600-602 Main St	2.8000	Yes	1
1484.03	Citizens State Bank of Ouray	608 Main St, Unit 1	.3000	Yes	1
1816.02	Citizens State Bank of Ouray	608 Main St Unit 2	2.0000	Yes	1
1646.02	City of Ouray	Box Canon Park	1.9000	Yes	1
1056.01	City of Ouray	1220 Main St, Hot Springs Pool	50.0000	Yes	1
1058.01	City of Ouray-Visitors Center	1230 Main St	1.9000	Yes	1
1451.01	Clapsadl, Will & Debbie	538 3rd Ave	1.0000	Yes	1
1570.02	Clark, Heather	800 Main St	3.1000	Yes	1
1679.01	Clark, Heather	700 Oak St	1.0000	Yes	1
1802.01	CLark, Heather	704 Oak Street	1.0000	Yes	1
1568.01	Clark, Jack	100 7th Ave	1.0000	Yes	1
1354.01	Clark, Jack	790 Oak St	12.8800	Yes	1
1115.02	Clark, Vickie Sue	1578 Oak St	1.0000	Yes	1
1122.01	Cline, Ronny	197 4th St	1.0000	Yes	1
1687.01	Cline, Todd	189 4th St	1.0000	Yes	1
1333.02	Cline, Todd and Karla	433 2nd Ave	1.0000	Yes	1
1648.01	CO State Hwy Dept	1648 Camp Bird Rd	1.6000	No	1
1050.01	Coachlight Restaurant / Sella	118 7th Ave	2.0000	Yes	1
1486.02	Cokinos, Gregoray & Page	610 Oak St	1.0000	Yes	1
1247.01	Colaw, William	325 Main St	1.0000	Yes	1
1254.02	Colaw, William & Leanna	329 Main St	1.0000	Yes	1
1819.02	Colorado West Jeep Rentals Inc	734 Main Street	1.0000	Yes	1
1491.01	Columbine Gifts - % B Kuehling	614 Main St	.3000	Yes	1
1514.01	Columbine Mineral / B Kuehling	633 Main St	1.3000	Yes	1
1121.01	Comfort Inn	191 5th Ave	12.2600	Yes	1
1084.01	Compton, Duane & Karen	136 Miners Cabin Lane	1.0000	Yes	1
1521.01	Condotti, Joe	643 4th St	1.0000	Yes	1
1308.01	Cook, Kathleen	417 5th St	1.0000	Yes	1
1501.01	Cook, Kathleen	650 Oak St	1.0000	Yes	1
1046.02	Cook, Ryan & Rebecca	115 6th Ave	2.3200	Yes	1
1197.02	Cooney Properties 100 LLC	305 Queen St	1.0000	Yes	1
1415.01	Cooper, Gregory	516 Oak St	1.0000	Yes	1
1684.03	Copley, Patrick Hubbell & Delynn	731 2nd St	1.0000	Yes	1
1322.02	Cordova, Matthew Guccini & Carrie	426 6th St	1.0000	Yes	1
1412.01	Corley D - % Corley Children	515 4th St	1.0000	Yes	1
1141.03	Correll, Diann	2101 Main St, A-4	1.0000	Yes	1
1248.01	Corren, Howard	326 8th Ave	1.0000	Yes	1
1471.04	Cossitt, Travis & Krysta	550 5th Ave	1.0000	Yes	1
1310.01	Cowell, Jack	419 Pinecrest	1.0000	Yes	1
1341.01	Cox, Peggy A.	439 6th St	1.0000	Yes	1
1127.03	Coyer, Ryan & Christine	200 Ski Hill Lane	1.0000	Yes	1
1238.01	Craig, Margaret	322 2nd St	1.0000	Yes	1
1236.01	Cramp Properties	321 4th Ave	1.0000	Yes	1
1220.01	Cramp Properties	311 4th Ave	1.0000	Yes	1
1225.01	Cramp Properties	315 4th Ave	1.0000	Yes	1
1619.01	Cramp, Bob	959 Main St	1.0000	Yes	1
1821.01	Cronin, Elissa	1266 Main St.	1.0000	Yes	1
1075.01	Cross, James & Barbara	1310 Oak St	1.0000	Yes	1
1587.02	Cumella, Cindy Carothers & Stephen	812 4th St	1.0000	Yes	1
1363.02	Curtin & Mary Clark, Thomas	790 Oak St, 4J 14E	1.0000	Yes	1
1213.02	Cyr, Jim and Lesa	307 5th St	1.0000	Yes	1
1509.05	Czarnecki, Scott	410 Mother Lode Lane	2.0000	No	1
1347.02	Daley, Christopher and Holly	445 4th St	1.0000	Yes	1
1318.03	Davis, Brandon	422 4th St	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1287.02	Davis, William and Cari	400 Queen St	2.0000	No	1
1252.01	Dawson, Alex	328 4th Ave	1.0000	Yes	1
1704.02	Dawson, Charles Johnston & Margaret	118 Ouray Vista Ln	1.0000	Yes	1
1083.02	Defreval, Donald Spencer & Martha	136 4th Ave	1.0000	Yes	1
1145.01	Dempsey, Wayne	2101 Main St, C-4	1.0000	Yes	1
1729.02	Derbique, Paul & Shannon	1947 Main St	1.0000	Yes	1
1550.01	Dettmer, Ann	727 1/2 4th St	1.0000	Yes	1
1233.01	Diehl, Richard	320 4th St	1.0000	Yes	1
1244.01	Dismant, Carl	325 5th St	1.0000	Yes	1
1688.03	Disser, Anthony & Nancy	1925 Elkhorn Dr	1.0000	Yes	1
1716.05	Disser, Nathan & Keeton	1919 Elkhorn Dr	1.0000	Yes	1
1313.02	Doherty, Dave	420 9th Ave	1.0000	Yes	1
1728.02	Donaldson, Joseph & Sara	1943 Main St	1.0000	Yes	1
1204.01	Doudy, Lisa	303 1/2 2nd St	1.0000	Yes	1
1503.01	Dowden, Lee Anna	628 4th St	1.0000	Yes	1
1249.01	Drozd, James	326 Oak St	1.0000	Yes	1
1027.01	Dunham, Steven & Janet	104 Spruce Ct, Unit C	1.0000	Yes	1
1449.04	Dunlap, Robert & Shari	537 5th Ave	1.0000	Yes	1
1335.01	Dunn, J. Gary	434 3rd Ave	1.0000	Yes	1
1530.01	Durgin, Harry	520 Main St	3.4000	Yes	1
1457.01	Duvall, Karen Dollahon & Patricia	541 3rd Ave	1.0000	Yes	1
1822.02	Dyne, Darline	1264 Main Street	1.0000	Yes	1
1289.01	Easley, Steve	401 S Pinecrest	1.0000	Yes	1
1535.02	Eberhardt Trust, Robert	703 Main St	2.5000	Yes	1
1536.02	Eberhardt Trust, Robert	705 Main St	2.0000	Yes	1
1533.02	Eberhardt Trust, Robert	701 Main St	1.2000	Yes	1
1682.01	Eberhardt, Hot Springs Inn- RW	1400 Main St	15.6500	Yes	1
1286.02	Eberhardt, Robert W.	390 Pinecrest	1.0000	Yes	1
1231.01	Eihausen, Tim D	318 Main St	1.0000	Yes	1
1273.02	Ekes, William	347 2nd St	1.0000	Yes	1
1426.03	Elder, James & Janet	524 4th St	1.0000	Yes	1
1283.01	Eliason, Christine	400 5th St	1.0000	Yes	1
1316.01	Elks Ouray Lodge #492 BPOE	421 Main St	3.2000	Yes	1
1804.01	Ellis Revocable Living Trust	2520 Chautauqua Lane	1.0000	Yes	1
1265.01	Elmont, Paul & Kathy	335 4th St	1.0000	Yes	1
1095.04	Engdahl, Kim & Kirk	1512 Oak St	1.0000	Yes	1
1167.02	England, Michele	221 Ski Hill Lane	1.0000	Yes	1
1400.02	English, Paul & Ruth	510 5th Ave	1.0000	Yes	1
1271.03	Erdmann, Kyle	340 4th St	2.0000	Yes	1
1630.02	Evans, Brent & Elizabeth	215 5th Ave, 2	1.0000	Yes	1
1792.02	Evans, Lynne	1231 Main St	1.0000	Yes	1
1534.02	Ewing, Thomas	703 5th St	1.0000	Yes	1
1416.02	Exstrum, Brian & Amy	518 5th St	1.0000	Yes	1
1086.01	Fagrelus, Eric	145 4th Ave	1.0000	Yes	1
1097.04	Fairchild Legacy LLC	1550 Main St	7.7000	Yes	1
1274.03	Falk, Kate	343 2nd St, B	1.0000	Yes	1
1369.03	Farlin, Doug	790 Oak St, 4J 29W	1.0000	Yes	1
1025.01	Fedel, John	122 Loretta Ct	1.0000	Yes	1
1555.01	Fedel, Mike	735 5th St	1.0000	Yes	1
1337.01	Fedel, Norman	435 8th Ave	1.0000	Yes	1
1552.01	Fedel, Norman	730 5th St	1.0000	Yes	1
1171.02	Feeser, Michael and Jennifer	224 Main St	1.0000	Yes	1
1183.04	Feeser, Michael and Jennifer	232 Main St	5.0000	Yes	1
1577.04	Fehd, Don C.	807 Main St, 1	1.0000	Yes	1
1598.01	Fellin, Jack	834 Main St	2.0000	Yes	1
1783.01	Fellin, Jack	950 Sam Fellin Ct	1.0000	Yes	1
1264.02	Ferguson, John	335 3rd Ave	1.0000	Yes	1
1077.02	Ferguson, Stephen	1314 Main St - Unit 7	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1444.02	Ferman, Nick Sustana & Pamela	532 Oak St	1.0000	Yes	1
1192.01	Ferrell, Don	2101 Main St, B-1	1.0000	Yes	1
1520.03	Fetchenhier, Scott & Janice	640 Main St	2.3000	Yes	1
1119.02	Fetty, Michael, Susan & Brian	1901 Elkhorn Dr	1.0000	Yes	1
1429.01	Ficco, Alvin	525 5th St	1.0000	Yes	1
1547.01	Ficco, Alvin & Arthur	725 Main St	.6000	Yes	1
1554.01	Ficco, Arthur M	734 4th St	6.0000	Yes	1
1103.01	Ficco, Dan & Krista	1522 Oak St	1.0000	Yes	1
1817.01	Field, Aliyah	524 & 528 Splangler Lane	2.0000	Yes	1
1433.02	Fiorito, S. Moore & Michael	529 4th St	1.0000	Yes	1
1007.01	First Baptist Church	100 4th Ave	1.7000	Yes	1
1766.01	First Baptist Church	133 5th Ave Ct	1.0000	Yes	1
1143.01	Fisher, Lois J	2101 Main St, B-4	1.0000	Yes	1
1428.04	Flatwood Properties LLC	525 2nd St	3.3200	Yes	1
1713.02	Fogleman, J Louis and Linda	88 4th Ave	1.0000	Yes	1
1614.03	Follman, Todd Martin & Rhonda	949 Main St	1.0000	Yes	1
1796.03	Fornataro, Edward & Heather	1271 Main St	1.0000	Yes	1
1394.02	Foster, Ryce	507 2nd St	1.0000	Yes	1
1805.01	Fountainhead Properties	1711 Hinkson Terrace	1.0000	Yes	1
1413.03	Four Ds Ouray 515 LLC	515, 513 Main St	10.2000	Yes	1
1548.03	Four D's Ouray 515 LLC	726 Main St	7.3000	Yes	1
1740.02	Fowler, Gregory	1518 B Oak St	1.0000	Yes	1
1686.02	Foy, Gregory & Connie	1715 Main St	1.0000	Yes	1
1166.01	Franz, Naomi	221 2nd St	1.0000	Yes	1
1387.03	Fresh Air Ventures	114 1/2 6th Ave	1.0000	Yes	1
1105.04	Freshwater, Gregory & Connie	1540 S. Hinkson Terrace	1.0000	Yes	1
1352.02	Friends of the Wright Opera House	480 Main St	5.6000	Yes	1
1675.02	Friends of Wright Opera House	472 Main St	4.8000	Yes	1
1481.01	Fries Sr, William D	600 N Pinecrest	1.0000	Yes	1
1290.01	Fries, Mark	401 1/2 6th St	1.0000	Yes	1
1544.01	Frymann Yamaguchi Family Trust	721 5th St	1.0000	Yes	1
1434.01	Funburg, Kenneth	529 5th Ave	1.0000	Yes	1
1257.02	Funk, Eric and Ethan	331 6th Ave	2.3000	Yes	1
1829.01	Funkhouser, Don	1546 Oak St	.3000	Yes	1
1355.02	Gavriel, Robin	790 Oak St, 4J 19E	1.0000	Yes	1
1146.01	Genuit, Christina	211 10th Ave, B-3	1.0000	Yes	1
1110.03	Genuit, Jacquelyn	1554 Oak St	1.0000	Yes	1
1623.01	Gerdes, Larry & Vickie	965 Main St	1.3000	Yes	1
1517.04	Geyer, Isabella	636 Main St	2.9000	Yes	1
1243.01	Gibbs, Mike	324 5th St	1.0000	Yes	1
1334.03	Gibson, Cheryl & Gordon	433 3rd Ave	1.0000	Yes	1
1357.03	Gibson, Joan	790 Oak St, 4J 2E	1.0000	Yes	1
1365.02	Gilliam, Don McFarlane & Marie	790 Oak St, 4J 1E	1.0000	Yes	1
1082.02	Goudy, Benjamin & Susan	1342 Oak St	1.0000	Yes	1
1131.01	Goztowt, Regina	206 4th St	1.0000	Yes	1
1049.01	Green, Norbert & Donna	117 5th Ave Ct	1.0000	Yes	1
1771.03	Greenholt, Jennifer	215 5th Ave, Unit 10	1.0000	Yes	1
1149.01	Gregory, Doug & Kathy	211 5th St	1.0000	Yes	1
1456.02	Greisz, Alan & Heather	540 8th Ave	1.0000	Yes	1
1207.02	Grether, Arno	305 Main St	1.0000	Yes	1
1142.04	Gretz & Linnell	2101 Main St, B-3	1.0000	Yes	1
1371.03	Groves, Clarence & Katherine	790 Oak St, 4J 31W	1.0000	Yes	1
1710.02	Grubbs, Luca Michael	1496 Oak St, Unit C-4	1.0000	Yes	1
1344.02	Gulde, Bruce & Tamara	442 Oak St	1.0000	Yes	1
1406.02	Gulde, Bruce & Tamara	512 Oak St	1.0000	Yes	1
1420.03	Gurzinski, Steven & Monika	520 2nd St	1.0000	Yes	1
1652.02	Gustafson, Gary / Amada Fam.LP	1511 Main St	5.0300	Yes	1
1017.01	Hafer, Michael	102 8th Ave	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1784.01	Haggar, Curtis and Nancy	533 Main St	.3000	Yes	1
1785.01	Haggar, Curtis and Nancy	535 Main St, Unit A	.3000	Yes	1
1787.01	Haggar, Curtis and Nancy	535 Main st, Unit B	1.0000	Yes	1
1708.02	Hakola, Michael & Laurie	420 5th St	1.0000	Yes	1
1332.01	Halasz, Bill	432 Oak St	1.0000	Yes	1
1024.04	Hall, William & Emily	108 Fedel Ct	1.0000	Yes	1
1760.01	Hamilton, Richard and Nancy	433 Hillcrest Court	1.0000	Yes	1
1385.01	Hamman, Ron Hamman and Terry	790 Oak St, 4J 12E	1.0000	Yes	1
1148.01	Hardman, S. Hardy & K.	211 Main St	1.0000	Yes	1
1152.02	Harper Trust, Cheryl	214-218 Main St	3.0000	Yes	1
1278.01	Harper, Chris	355 Easy Street	1.0000	Yes	1
1279.02	Hart, Dorothy & Robert	360 9th Ave	1.0000	Yes	1
1745.01	Hart, John and Lou	1701 Oak St	1.0000	Yes	1
1584.01	Hart, Karen	811 5th St	1.0000	Yes	1
1609.01	Hart, Sean	909 Potosi Place	1.0000	Yes	1
1602.03	Hartman, Mark & Kathy	837 Main St	2.3000	Yes	1
1422.01	Harvey, Cecilia	521 4th St	1.0000	Yes	1
1169.01	Harvey, Sara	221 1/2 2nd St	1.0000	Yes	1
1506.02	Haselnus, Ronald & Catherine	628 1/2 5th St	1.0000	Yes	1
1726.03	Haus Home LLC	1915 Main St	1.0000	Yes	1
1730.03	Hawkins, Kevin & Heidi	1951 Main St	1.0000	Yes	1
1676.01	Heckman, Roger & Brenda	68 4th Ave, 8	1.0000	Yes	1
1168.03	Heineman, Arnold & Esther	222 5th Ave	2.0000	Yes	1
1525.02	Heitz, Pamela Leden & Daniel	645 Main St	4.6000	Yes	1
1731.01	Henderson, Tom & Margaret	118 Hayden View Cr	1.0000	Yes	1
1010.02	Hickok, Alison	101 Loretta Ct	1.0000	Yes	1
1080.01	Hilborn, James & Linda	1320 Main St - Unit 10	1.0000	Yes	1
1398.02	Hill, Darin & Valerie	509 3rd Ave	1.0000	Yes	1
1104.02	Hill, Rosemary	1538 Oak St	1.0000	Yes	1
1388.03	Hinkson Hein Holdings, LLC	50 3rd Ave	10.9700	Yes	1
1123.01	Hinkson, Craig & Christina	1980 Oak St	1.0000	Yes	1
1386.02	Hinnant, Barbara & Reginald	790 Oak St, 4J 25W	1.0000	Yes	1
1214.02	Hirst Properties	308 6th Ave	1.6000	Yes	1
1762.03	Hirt, Justine & Vale	137 Fedel Court	1.0000	Yes	1
1018.03	Hitchcox, Katie Craig & Marc	103 Fedel Ct	1.0000	Yes	1
1293.01	Hockersmith, Mike	404 6th St	1.0000	Yes	1
1736.03	Hoffman, Meda Situngkir and Bruce	1975 Main St	1.0000	Yes	1
1613.02	Hollenbeck, Colleen & Hannah	941 Main St	1.0000	Yes	1
1590.03	Holman Family Trust	820 2nd St	1.0000	Yes	1
1542.01	Holmes, Robert & Jane	718 4th St	3.0000	Yes	1
1427.03	Holt, Lauren Fellure & Patrick	525 2nd Ave	1.0000	Yes	1
1725.03	Holtz, Peter	1911 Main St	1.0000	Yes	1
1349.02	Hoover, Charles & Karisa	445 8th Ave	1.0000	Yes	1
1515.02	Hoover, Charles & Therese	430 Mother Lode Lane	2.0000	No	1
1232.02	Hoover, Marion Proud & David	319 4th St	1.0000	Yes	1
1203.02	Hotel Ouray Properties LLC	303 6th Ave	3.2300	Yes	1
1460.02	Hotel Ouray Properties LLC	541-545 Main & 303-309 6th Ave	.9000	Yes	1
1563.02	Hotz Exchange LLC	425 8th Ave	1.0000	Yes	1
1016.02	Hotz, Perry and Terry	102 4th Ave	1.0000	Yes	1
1153.03	Hotz, Terry & Perry	215 2nd St	1.0000	Yes	1
1210.01	House, Wayne	306 Oak St	1.0000	Yes	1
1184.02	Houston Trusts, JoAnn & Perry	235 2nd St	1.0000	Yes	1
1196.01	Howell, Peter & Martha	300 Oak St	1.0000	Yes	1
1591.01	Hudson, Allen	821 4th St	1.0000	Yes	1
1147.03	Hudson, Charles and Becky	205 10th Ave	1.0000	Yes	1
1791.01	Hudson, Harvey	820 4th St	1.0000	Yes	1
1090.05	Huff, Grover & Martha	1480 Oak St	1.0000	Yes	1
1531.01	Hughes, Vernon	429 Hillcrest Court	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1031.02	Humphreys, Andrew	106 Spruce Ct - Unit D	1.0000	Yes	1
1463.02	Hutchison, James	545 5th Ave	1.0000	Yes	1
1562.02	Imogene Holdings LLC	740 Main St	1.7500	Yes	1
1566.02	Imogene Holdings LLC/Thai Chili	746 Main St	3.2000	Yes	1
1717.03	INCO LLC	1474 Oak St	1.0000	Yes	1
1423.02	Iuppenlatz, Mark & Andrea	521 5th St	1.0000	Yes	1
1617.03	Jackson, Jeff & Donna	952 Main St	1.0000	Yes	1
1208.01	Jacobsen, Eric	305 Oak St	1.0000	Yes	1
1285.01	Jacobsen, Eric	400 Oak St	1.0000	Yes	1
1403.02	Jaffri, Ali	111 5th St	1.0000	Yes	1
1446.01	James, Denise	535 8th Ave	1.0000	Yes	1
1439.01	James, Ron	515 8th Ave	1.0000	Yes	1
1665.01	Jarrel, Charles	110 Spruce Ct	1.0000	Yes	1
1748.02	Jensen, Katherine	310 2nd St	1.0000	Yes	1
1022.01	Jensen, Nancy	103 5th Ave Ct - Unit G	1.0000	Yes	1
1722.02	Johnson, Kathrine Lee & Donald	1494 Oak St	1.0000	Yes	1
1789.01	Johnson, Mark and Barbara	1294 Oak St	1.0000	Yes	1
1079.02	Jojola, Timothy & Jacy	1318 Main St - Unit 9	1.0000	Yes	1
1801.01	Jones, Tyler & Lori	1509 Oak Street	1.0000	Yes	1
1575.02	Joroff, Sheila	804 4th St	1.0000	Yes	1
1118.03	JTP - Ouray Riverside Inn & Cabins	1804 Main St	12.6000	Yes	1
1098.03	JTP Incorporated	1700 Main St	19.1700	Yes	1
1327.01	Junkins, Enda	430 4th Ave	1.0000	Yes	1
1500.01	Kaiser, Charm	622 4th St	3.0000	Yes	1
1045.01	Kaminsky, C. & M. O'Driscoll	115 5th Ave Ct	1.0000	Yes	1
1574.01	Kaukol, Robert & Karen	804 2nd St	1.0000	Yes	1
1621.02	Keffer, Gary	960 Main St	2.0000	Yes	1
1596.02	Kelly, Michael & Shareen	828 2nd St	1.0000	Yes	1
1545.01	Kelly, Thomas & Carolyne	723 4th St	1.0000	Yes	1
1223.02	Kemp, Leslie	314 4th St	1.0000	Yes	1
1172.01	Kercher Family Joint Irrevocable Trust	225 4th St	1.0000	Yes	1
1436.01	Kern, Mike	530 5th Ave	1.0000	Yes	1
1028.02	Kersen, Christine & Bernard	124 Fedel Ct	1.0000	Yes	1
1151.02	Kessler, Elaine	213 Main St	1.0000	Yes	1
1782.03	King, Christopher & Laura	708 Main St, 5	1.0000	Yes	1
1703.01	King/Bartashius	1306 Main St	1.0000	Yes	1
1738.03	Kirschler Living Trust, Thomas & Roxann	1983 Main St	1.0000	Yes	1
1735.03	Kirschler Trust, Thomas & Roxanne	1971 Main St	1.0000	Yes	1
1338.02	Kissingford, John & Katharine	436 8th Ave	1.0000	Yes	1
1519.01	Klein, Jerry	637 5th St	1.0000	Yes	1
1595.02	Klingman, Ken	827 4th St	1.0000	Yes	1
1366.03	Knesel, James & Shana	790 Oak St, 4J 20E	1.0000	Yes	1
1107.04	Knight, Lisa	1544 Hinkson Terrace	1.0000	Yes	1
1234.02	Koch, Shannon	320 6th St	1.0000	Yes	1
1685.03	Koch, Stephen & Trisa	515 6th St	1.0000	Yes	1
1724.03	Kotzen, Craig & Kimberly	76 4th Ave	1.0000	Yes	1
1070.02	Kremeier, Heidi M.	1254 Champ Ln	1.0000	Yes	1
1411.01	Kuehling, Benjy	514 1/2 Main St	.3000	Yes	1
1414.01	Kuehling, Benjy	516 Main St	4.0000	Yes	1
1489.01	Kuehling, Benjy and Liz	612 Main St	.3000	Yes	1
1508.02	Kuehling, Benjy or Liz	629 Main St	.3000	Yes	1
1417.03	Kuehling, Liz	518 Main St	.3000	Yes	1
1418.01	Kuehling, Liz	518 1/2 Main St	.3000	Yes	1
1594.03	L & S Properties LLC	825 Main St	.3000	Yes	1
1256.03	LaBerge, Millicent	331 2nd St	1.0000	Yes	1
1378.03	Lake, Richard & Mary Ellen	790 Oak St, 4J 7E	1.0000	Yes	1
1741.01	Lane, Alan Senter & Vicki	1518 A Oak St	1.0000	Yes	1
1221.01	Lane, Richard	311 4th St	.4200	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1260.01	Lane, Richard & Mary	333 6th Ave	1.3000	Yes	1
1114.02	Lange, Jens and Debra	1570 Oak St	1.0000	Yes	1
1036.03	Langner, Kenneth & Samantha	129 Loretta Ct	2.0000	Yes	1
1442.01	Lankenau - % LaPorte R E	531 N Pinecrest	1.0000	Yes	1
1438.01	Lankenau, Steve	535 1/2 5th St	1.0000	Yes	1
1023.02	Larson, Nels and Karl	1900 Elkhorn Dr	1.0000	Yes	1
1272.01	Larson, Robert A	342 7th Ave	1.0000	Yes	1
1689.05	Laubacher, Scott & Athena	1302 Main St	1.0000	Yes	1
1603.01	Lauderdale, John & Jackie	836 4th St	2.0000	Yes	1
1480.04	Leaver, Chad & Jennifer	551 6th St	1.0000	Yes	1
1321.01	Leeper, Larry	425 Hillcrest Court	2.0000	Yes	1
1126.01	Leeper, Larry & Alice	200 6th Ave	1.0000	Yes	1
1055.01	Lees, Kathryn	120 Spruce Ct	1.0000	Yes	1
1468.03	Lemons, Paul and Gwen	547 3rd Ave	1.0000	Yes	1
1276.02	Leo, Bill and Lori	344 5th St	1.0000	Yes	1
1331.02	Leonardi, David & Jill	432 4th Ave	1.0000	Yes	1
1756.03	Lewis, Gary & Janet	1710 Oak St	1.0000	Yes	1
1198.06	Lewis, Patricia	301 2nd St	1.0000	Yes	1
1739.03	Lewis, Patricia	207 8th Ave	1.0000	Yes	1
1424.01	Lewis, Patty	523 Main St	1.0000	Yes	1
1407.02	Lewis, Patty	512 1/2 Main St	1.3000	Yes	1
1353.01	Lipsey, Mark	481 N Pinecrest	1.0000	Yes	1
1651.02	Little Switzerland LLC	14815 Hwy 550	1.0000	Yes	1
1259.02	Long Shot Ventures LLC	332 5th Ave	1.0000	Yes	1
1392.02	Longshot Ventures, LLC	505 Main St	14.1300	Yes	1
1576.01	Lundberg, Brad & Gail	832 2nd St	1.0000	Yes	1
1786.02	Lyndon Properties LLC	708 Main St, 6	1.0000	Yes	1
1133.02	M3K LLC	209-213 2nd St	3.0000	Yes	1
1478.03	MacArthur Apartments	1822 Main St	2.3200	Yes	1
1218.01	Maclachlan, Gretchen	310 5th St	1.0000	Yes	1
1599.01	Maclennan, Barry	831 Main St	1.3000	Yes	1
1764.01	Manfredi, David	1610 Oak St	2.0000	Yes	1
1112.02	Manley, Kendra	1562 Oak St	1.0000	Yes	1
1612.03	Mann, Jerry & Alathalie	940 Main St	1.0000	Yes	1
1443.03	Maria T. Rock Trust	532 4th St	1.0000	Yes	1
1358.01	Markey, Raymond	790 Oak St, 4J 33W	1.0000	Yes	1
1557.02	Marraffa, Sofia	736 5th St	1.0000	Yes	1
1670.01	Martin, Beverly	209 10th Ave	1.0000	Yes	1
1343.01	Masonic Lodge	441 Main St	1.1200	Yes	1
1475.01	Mathias, Sam	560 8th Ave	1.0000	Yes	1
1128.05	Matterhorn Inn Ouray LLC	201 6th Ave	8.2200	Yes	1
1539.01	Mattivi, Irene	712 2nd St	1.0000	Yes	1
1054.01	Mattivi, Irene	120 7th Ave	1.0000	Yes	1
1830.01	Mattoon, Frederick & Jill	113 Ouray Viista Lane	.3000	Yes	1
1270.01	Maurer, Bette	339 2nd St	1.0000	Yes	1
1179.01	Mayfield, Susanna	229 2nd St	1.0000	Yes	1
1307.01	McArthur, Gretchen	416 9th Ave	1.0000	Yes	1
1755.01	McCord, Ted and Cindy	123 Ouray Vista Ln	1.0000	Yes	1
1319.02	McCormick, Ralph & Tonya	422 Oak St	1.0000	Yes	1
1076.01	McCullough, Linda	1312 Main St - Unit 6	1.0000	Yes	1
1699.02	McGinnis, Timothy & Julie	1554 S Hinkson Terrace	1.0000	Yes	1
1069.01	McHenry, David	1252 Champ Ln	1.0000	Yes	1
1510.02	McHenry, David Family Trust	630 Main St	10.3000	Yes	1
1190.01	McMurrin, Dave	245 2nd St	1.0000	Yes	1
1377.02	McMurrin, Lillian	790 Oak St, 4J 6E	1.0000	Yes	1
1482.01	Meckel, Larry	602 Oak St	1.0000	Yes	1
1498.01	Meckel, Larry	620 Oak St	1.0000	Yes	1
1093.02	Meeks, Shane & Sharon	1486 Oak St	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1162.02	Mehnert, Braydin	231 Ski Hill Lane	1.0000	Yes	1
1373.01	Meinders, Charlotte	790 Oak St, 4J 34W	1.0000	Yes	1
1382.01	Meinders, Phil	790 Oak St, 4J I8E	1.0000	Yes	1
1399.01	Meinert, Keith	510 2nd Ave	1.0000	Yes	1
1299.01	Merrill, William	410 6th St	1.0000	Yes	1
1581.01	Merriman, Thad	808 2nd St	1.0000	Yes	1
1625.01	Metzger, Russell	215 5th Ave, 3	1.0000	Yes	1
1627.01	Metzger, Russell	215 5th Ave, 5	1.0000	Yes	1
1573.02	Middleton, Joan A.	801 Main St	2.6000	Yes	1
1111.02	Miles, William	1555 Oak St	1.0000	Yes	1
1368.02	Miller, Anthony	790 Oak St, 4J 28W	1.0000	Yes	1
1132.01	Miller, Robert	208 4th St	1.0000	Yes	1
1108.01	Miller, Stephen & Gayle	1546 Hinkson Terrace	1.0000	Yes	1
1647.01	Mineral Farms Water Users	Camp Bird Rd	30.0000	No	1
1047.01	Mission Rock LLC	115 7th Ave	1.0000	Yes	1
1696.01	Mission Rock LLC	117 7th Ave	1.0000	Yes	1
1697.01	Mission Rock LLC	119 7th Ave	1.0000	Yes	1
1559.02	MKJ Properties LLC	736 Main St	1.3000	Yes	1
1013.03	Moody, Bill & Charlotte	101 6th Ave	2.0700	Yes	1
1160.01	Moore, George & Glenda	220 4th Ave	1.0000	Yes	1
1473.02	Moore, Larry & Susan	550 Oak St	1.0000	Yes	1
1522.02	Mountain Fever Shirts & Gifts	644 Main St	.3000	Yes	1
1698.01	Mt. Sneffels LP	2000 Oak St	1.0000	Yes	1
1759.02	Mudge, Deborah	1276 Main St	1.0000	Yes	1
1694.02	Mulkey, Jon J	102 Ouray Vista Ln	1.0000	Yes	1
1397.04	Murch, Jon & Tammi	531 2nd Ave	1.0000	Yes	1
1088.01	Murphy, Keith	14583 Hwy 550	2.0000	No	1
1059.02	Murray, Cathy	1239 Park Rd	1.0000	Yes	1
1001.02	Murray, George & Mildred	10 Oak Creek Ln	1.0000	Yes	1
1215.02	Murray, George & Mildred	308 Oak St	1.0000	Yes	1
1611.05	NCM Holdings LLC	920 Main St	.9000	Yes	1
1071.02	Nelson, Brian & Kelsey	1256 Champ Ln	1.0000	Yes	1
1158.02	Nelson, Gregory & Diane	219 4th Ave, D	1.0000	Yes	1
1499.01	Nelson, Kent	621 4th St	1.0000	Yes	1
1176.03	Nergui, Daniel E. Hughes & Mungundolgi	226 3rd Ave	1.0000	Yes	1
1136.03	Neves, Marta Gradowski & Laura	210 9th Ave	1.0000	Yes	1
1709.01	Nickels, Ed & Pam	1478 Oak St, Unit A-4	1.0000	Yes	1
1200.01	Nixon, John & Nancy	302 Oak St	1.0000	Yes	1
1540.02	Norberg, Donald	715 2nd St	1.0000	Yes	1
1246.02	Normoyle, Gillian Carunchio and Kevin	325 7th Ave	1.0000	Yes	1
1744.01	Ohnemus, Cecilia	1539 Oak St	1.0000	Yes	1
1401.02	O'Leary, Dennis & Christina	510 5th St	1.0000	Yes	1
1325.03	Ogren, Mark & April	428 5th Ave	1.0000	Yes	1
1813.01	Ormond, Dawn Glanc & Patrick	411 Pinecrest	1.0000	Yes	1
1303.01	O'Toole, Megan	415 5th St	1.0000	Yes	1
1483.03	Ouray Brewery LLP	607 Main St	10.9000	Yes	1
1402.01	Ouray Chalet Motel	510 Main St	10.3600	Yes	1
1767.02	Ouray Christian Fellowship	400 4th Ave	1.0000	Yes	1
1267.02	Ouray Christian Fellowship	336 4th Ave	2.1000	Yes	1
1458.01	Ouray County	541 4th St	4.8000	Yes	1
1571.01	Ouray County	800 Oak St	.3000	Yes	1
1798.02	Ouray County Hist. Society	722 Main St	.3000	Yes	1
1311.01	Ouray County Museum	420 6th Ave	1.0000	Yes	1
1495.01	Ouray Glassworks /Stanislowski	619 Main St	.3000	Yes	1
1622.02	Ouray Landing LLC	961 Main St	1.0000	Yes	1
1561.01	Ouray Liquors - Matt Genuit	738 Main St	1.3000	Yes	1
1763.01	Ouray Mountain Rescue Team	107 CR 361	3.0000	No	1
1199.01	Ouray Public Health	302 2nd St	.6000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1516.01	Ouray Real Estate	635 Main St	.3000	Yes	1
1409.03	Owens, Keith & Lizbeth	514 2nd St	1.0000	Yes	1
1823.02	Paine, Carlos & Teri	1235 Park Rd, Unit B-3	1.0000	Yes	1
1034.01	Palmer, Andy & Rhonda	119 Fedel Ct	1.0000	Yes	1
1600.02	Pankow, Scott & Heidi	832 5th St	1.0000	Yes	1
1664.02	Parden, Lee Ann	105 5th Ave Ct, H	1.0000	Yes	1
1269.01	Pard's	338 Main St	1.0000	Yes	1
1012.04	Parkhurst, George & Jeanne	101 5th Ave Ct - Unit F	1.0000	Yes	1
1608.02	Parry, Jay	905 Main St	2.0000	Yes	1
1809.01	Paul Sunderland	280 7th Avenue	.3000	Yes	1
1379.01	Paul, Julie Cole & Jason	790 Oak St, 4J 9E	1.0000	Yes	1
1324.01	Pearce, Bernie	428 4th St	1.0000	Yes	1
1008.02	Pelkey, Michael and Ann Elizabeth	100 Miners Cabin Lane	1.0000	Yes	1
1435.01	Penning, Russell	530 2nd St	2.0000	Yes	1
1275.02	Penning, Russell	343 4th St	1.0000	Yes	1
1306.01	Penning, Russell	416 2nd St	2.0000	Yes	1
1281.03	Penrod, Susan Coryell & Bruce	400 Pinecrest	1.0000	Yes	1
1663.02	Perry, Justin & Susie	112 Spruce Ct	1.0000	Yes	1
1312.02	Peterson, Trevor A.E.	420 6th St	1.0000	Yes	1
1604.01	Phillips, Buddie	840 5th St	1.0000	Yes	1
1155.01	Pieper, Gregg	215 7th Ave	1.0000	Yes	1
1078.03	Pistorio, Mark & Karen	1316 Main St - Unit 8	1.0000	Yes	1
1758.02	Pitts, Martin & Patty	1680 Hinkson Terrace	1.0000	Yes	1
1496.01	Pleasant, Vernon	620 2nd St	1.0000	Yes	1
1051.01	Poole, Richard	118 Spruce Ct, Unit M	1.0000	Yes	1
1445.02	Potter, Nancy and Delos	535 4th Ave	1.0000	Yes	1
1502.03	Pretty Good, LLC	400 Mother Lode Lane	2.0000	No	1
1315.03	Prewitt, Farrell & Patricia	421 2nd St	1.0000	Yes	1
1038.02	Price, Christopher & Elissa	152 Fedel Ct	1.0000	Yes	1
1380.02	Pullig, Ted & Trina	790 Oak St, 4J I5E	1.0000	Yes	1
1161.01	Purcell, Paul & Tina	220 4th St	1.0000	Yes	1
1186.01	Purcell, Paul & Tina	236 4th St	1.0000	Yes	1
1035.02	Purser, Robert and Amber	108 Spruce Ct, Unit E	1.0000	Yes	1
1578.02	Pyeatte, Natasha	807 Main St, 2	1.0000	Yes	1
1432.02	Quatham, Anne	528 5th St	1.0000	Yes	1
1678.01	Quay, John & Jeanette	1558 S Hinkson Terrace	1.0000	Yes	1
1367.03	Quinn, Carol	790 Oak St, 4J 26W	1.0000	Yes	1
1173.01	Qwest	225 5th Ave	.3000	Yes	1
1749.03	Radel, Doyle & Kristie	1282 Main St	1.0000	Yes	1
1345.01	Rainville, Jane & Roger	444 4th Ave	1.0000	Yes	1
1073.01	Rasmussen, Rod	1264 Oak St	1.0000	Yes	1
1140.01	Ratliff, Sherman	2101 Main St, A-3	1.0000	Yes	1
1163.01	Rebekah Lodge	220 6th Ave	1.0000	Yes	1
1089.01	Red Mtn Trading Post	1500 Main St	1.0000	Yes	1
1081.02	Reinke LLC, Nicholas Hunter	1322 Main St - Unit 11	1.0000	Yes	1
1020.02	Reiter, Douglas & Debra	113 Loretta Ct	3.0000	Yes	1
1569.02	Remmler, Thomas and Sharon	800 2nd St	1.0000	Yes	1
1752.01	Ricks, Paul and Laura	440 5th St	1.0000	Yes	1
1330.01	Riddell, Larry	431 5th Ave	1.0000	Yes	1
1170.02	Risch, Bob & Karen	224 9th Ave	1.0000	Yes	1
1150.01	Risch, Bob & Karen	212 9th Ave	1.0000	Yes	1
1164.01	Risch, Bob & Karen	220 9th Ave	1.0000	Yes	1
1812.01	River, Alison	825 2nd Street	1.0000	Yes	1
1124.01	River, Richard	235 10th Ave	1.0000	Yes	1
1737.03	Robinson, Virginia Laforme & Eric	1979 Main St	1.0000	Yes	1
1564.03	Robles, Rogelio & Caroline	744 4th St	1.0000	Yes	1
1405.01	Rockin-P-Ranch	512 Main St	1.3000	Yes	1
1339.02	Roderick, Allen	438 4th St	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1033.03	Rodes, Andrew & Dana	148 Loretta Ct	1.0000	Yes	1
1743.01	Rodriguez, Wilfredo	1284 Main St	1.0000	Yes	1
1541.02	Rondinelli, Patrick	715 5th St	1.0000	Yes	1
1216.04	Rosenblum, Michael Kiparsky & Erica	309 6th St	1.0000	Yes	1
1048.03	Ross, Laura	116 Spruce Ct	1.0000	Yes	1
1255.01	Ross, Rennie	330 5th St	1.0000	Yes	1
1177.02	Ross, Robert & Brandy	226 7th Ave	3.1000	Yes	1
1605.01	Rossi, Alfred & Kathryn A.	845 Main St	1.0000	Yes	1
1727.03	Rotenberry, Mark & Amber	1939 Main St	1.0000	Yes	1
1237.03	Ruby Enterprise LLC	319 6th Ave	1.4900	Yes	1
1546.01	Rueschoff, Bernard	725 2nd St	1.0000	Yes	1
1493.01	Rule, Walt & Nancy	615 4th St	1.0000	Yes	1
1241.01	Rushing, Sam	322 1/2 2nd St	1.0000	Yes	1
1507.01	Rushing, Sam	629 4th St	2.0000	Yes	1
1572.02	Ryan, Kelly Marie	801 2nd St	1.0000	Yes	1
1680.02	Sackman, Travis & Paige	445 Main St	1.3000	Yes	1
1810.02	San Juan Mountain Guides	710 Main Street	.3000	Yes	1
1440.01	Sanders, Richard	530 N Pinecrest	1.0000	Yes	1
1188.03	Sargent, Cory and Lauryn	240 Main St	1.0000	Yes	1
1618.02	Saunders, Timothy & Lezah	958 Main St	1.0000	Yes	1
1360.03	Saville, Mike	790 Oak St, 4J 10E	1.0000	Yes	1
1261.02	Schiffer, Kevin & Jane	333 Easy Street	1.0000	Yes	1
1404.03	Schiffer, Stephen	511 2nd St	1.0000	Yes	1
1106.03	Schletty, Bridget	1542 Hinkson Terrace	1.0000	Yes	1
1706.04	Schmidt, Christopher	1919 Main St	1.0000	Yes	1
1087.01	Schmidt, Peggy	1450 Oak St	1.0000	Yes	1
1543.01	Schoenebaum, Eric	718 Oak St	1.0000	Yes	1
1342.01	School District R-1	400 7th Ave	11.4000	Yes	1
1065.03	Schoppman, Hollie	1246 Champ Ln	1.0000	Yes	1
1262.01	Scoggins, James	334 4th St	1.0000	Yes	1
1304.02	Scott, Richard	415 Hillcrest Court	1.0000	Yes	1
1030.01	Scott, Speedy	135 Fedel Court	1.0000	Yes	1
1113.02	Scribner, Kent and Ronda	1563 Oak St	1.0000	Yes	1
1064.02	Serra, Mark	1245 Park Rd	1.0000	Yes	1
1230.02	Shane & Amber Cunningham Family Tru	317 2nd St	2.3300	Yes	1
1430.02	Shaw et. al., F. Ann	525 6th St	1.0000	Yes	1
1800.03	Shea, Brendan	1278 Main Street, Unit 6	1.0000	Yes	1
1014.02	Sheasgreen, Kevin & Lorry	100 Fedel Ct	1.0000	Yes	1
1300.02	Shrier, Carol Lyn Deihl & John	410 9th Ave	1.0000	Yes	1
1494.01	Silver Eagle /Stanislowski Inv	617 Main St	4.4000	Yes	1
1567.02	Silverman, Aaron & Gabrielle	747 4th St	1.0000	Yes	1
1815.01	Silvershield PUD- Wanakah Estates	1680 Oak Street	1.0000	Yes	1
1695.01	Simba Properties LLC	730-732 Main St	2.3000	Yes	1
1189.02	Sinclair, James	241 Main St	1.0000	Yes	1
1174.01	Sixth Ave Condo HOA	225 6th Ave	3.3000	Yes	1
1585.01	Skoloda, Jeff	812-814 Main St	1.3000	Yes	1
1091.02	Skyrocket Creek LLC	1482 Oak St	1.0000	Yes	1
1770.03	Slawitschka, Lora	215 5th Ave, Unit 12	1.0000	Yes	1
1309.02	Smith, C. Calhoun & J.	419 4th St	2.0000	Yes	1
1723.02	Smith, David & Virginia	1286 Main St	1.0000	Yes	1
1751.03	Smith, Joshua & Heather	1618 Oak St	1.0000	Yes	1
1488.03	Smith, Kevin & Victoria	611 2nd St	1.0000	Yes	1
1219.02	Smith, Michael and Joyce	310 Main St	1.0000	Yes	1
1224.01	Smith, Norman	315 2nd St	1.0000	Yes	1
1268.01	Smith, Richard D	338 6th St	1.0000	Yes	1
1626.02	Snowbound Properties LLC	215 5th Ave, 4	1.0000	Yes	1
1580.01	Spaulding, Richard	807 Main St, Units 4-5	1.3000	Yes	1
1629.02	Spidell, John & Michelle	215 5th Ave, 1	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1032.01	Spitz, Robert & Miriam	107 5th Ave Ct - Unit J	1.0000	Yes	1
1692.01	Sreenan, Gregory & Jill	1304 Main St	1.0000	Yes	1
1732.02	Sreenan, Gregory and Jill	1288 Main St	1.0000	Yes	1
1601.01	St Clair, Greg	835 2nd St	2.0000	Yes	1
1490.01	St Daniels Catholic Church	614 5th St	3.3500	Yes	1
1253.01	St John's Episcopal Church	329 5th Ave	2.4000	Yes	1
1827.01	St. Sophia LLC	230 9th Avenue	1.0000	Yes	1
1487.02	Stanislawski Properties LLC	611-611 1/2 Main St	1.3000	Yes	1
1464.01	Stanislawski, Dale	545 5th St	1.0000	Yes	1
1251.02	Steinhardt, Frederick	327 4th St	1.0000	Yes	1
1719.02	Stevenson, Beverly	1476 Oak St	1.0000	Yes	1
1828.02	Stokes, Keith & Doris	1262 Main Street	1.0000	Yes	1
1288.01	Stoufer, Robert	401 6th St	1.0000	Yes	1
1421.05	Strand, Allison	520 7th Ave	1.0000	Yes	1
1814.01	Struble, Katherine Cuta & Philip	1270 Main St	1.0000	Yes	1
1370.01	Studley, Sandy	790 Oak St, 4J 30W	1.0000	Yes	1
1691.02	Stuller, Sandra	1719 Main St	1.0000	Yes	1
1788.01	Subashi, Debra	116 Ouray Vista Lane	1.0000	Yes	1
1701.03	Suitt, Phil and Patricia	1531 Oak St	1.0000	Yes	1
1222.02	Sullins, Lance	311 Main St	1.0000	Yes	1
1250.02	Sullivan & Eischied	327 4th Ave	1.0000	Yes	1
1761.01	Sullivan, John	201 Queen St	1.0000	Yes	1
1808.01	Sunderland, Paul	242 7th Avenue	.3000	Yes	1
1807.01	Suros, Lucy	1272 Main Street	1.0000	Yes	1
1452.01	Sustana, P Ferman & Nick	538 Oak St	1.0000	Yes	1
1194.02	Swain, Amanda	114 6th Ave	4.0000	Yes	1
1410.01	Swiss Store / Eberhard Hinz	514 Main St	1.3000	Yes	1
1094.01	Swiss Village / Ross Crawford	1500 Oak St	20.0000	Yes	1
1588.02	Tannenbaum, Brian	816 2nd St	1.0000	Yes	1
1026.03	Taylor, Jeremy	104 8th Ave	1.0000	Yes	1
1592.04	Taylor, Mitchell L.	824 2nd St	1.0000	Yes	1
1277.02	Thayer, Lynn or Lotus	347 5th St	2.0000	Yes	1
1712.02	Thomas, Gary and JaLynn	84 4th Ave	1.0000	Yes	1
1209.01	Thompson, Andy	306 5th St	1.0000	Yes	1
1526.02	Thompson, Harlan	647 5th St	1.0000	Yes	1
1298.01	Throckmorton, Robert W.	410 4th St	1.0000	Yes	1
1100.01	Timber Ridge Service Station	1600 Main St	1.5000	Yes	1
1062.03	Timberlake, Kaleb & Abigail	1243 Park Rd	1.0000	Yes	1
1616.02	Tjossem, Martha	95 7th Ave	2.0000	Yes	1
1419.01	Toan, Barrett	520 - 520 1/2 4th St	2.0000	Yes	1
1340.01	Toan, Katherine	438 8th Ave	1.0000	Yes	1
1620.01	Todd, Debra	96 6th Ave	1.0000	Yes	1
1794.02	Tollen, David & Patricia	1251 Main St	1.0000	Yes	1
1476.01	Tomassi, Robert	560 1/2 8th Ave	1.0000	Yes	1
1681.01	Tompkins & Serra	203 10th Ave, A-2	1.0000	Yes	1
1165.02	Trainor, William & Kerri	220 Main St	1.0000	Yes	1
1374.02	Travis, Joe and Aline	790 Oak St, 4J 3E	1.0000	Yes	1
1328.03	Triple R Holdings LLC	430 Pinecrest	1.0000	Yes	1
1228.01	Trosper, Mary Sue	316 5th St	1.0000	Yes	1
1129.01	Trujillo, John	219 10th Ave	1.0000	Yes	1
1466.01	Trujillo, Lydia	546 2nd St	1.0000	Yes	1
1116.03	Trujillo, Nathan Daniel & Kristyn Mary	1586 Oak St	1.0000	Yes	1
1182.01	Trujillo, Rebecca	231 3rd Ave	1.0000	Yes	1
1125.01	Trujillo, Rick	201 Ski Hill Lane	1.0000	Yes	1
1383.02	Tucker, Eva & Edwin	790 Oak St, 4J 1A	1.0000	Yes	1
1193.01	Turner, John & Rosalie	2101 Main St, C-1	1.0000	Yes	1
1301.01	Tuttle, James	411 2nd St	1.0000	Yes	1
1066.01	Twin Peaks Motel	125 3rd Ave	19.6100	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1296.02	Two Trees Ouray LLC	417 Pinecrest	2.0000	Yes	1
1135.01	Tyler, S / Shirley Tyler Trust	210 4th St	2.0000	Yes	1
1558.01	Tyler, Thomas	736 and 736 1/2 4th St	2.0000	Yes	1
1653.04	Tyler, Tom & Linda	2101 Main St, B-2	1.0000	Yes	1
1175.01	Ullemeyer, Hayes	225 7th Ave	2.0000	Yes	1
1015.01	Unger, Sue	120 Loretta Ct	1.0000	Yes	1
1497.01	US Post Office	620 Main St	.6000	Yes	1
1589.01	Van Gemert, Robert J	817 2nd St	1.0000	Yes	1
1453.01	Van Matre, Carolyn	539 4th Ave	1.0000	Yes	1
1820.01	Van Meter, Annette Charles & Mark	1268 Main Street	1.0000	Yes	1
1117.03	Vander Ploeg, Ingrid	180 5th Ave	1.0000	Yes	1
1560.02	VanderPloeg, Hans & Ingrid	737 Main St	7.8000	Yes	1
1029.03	Vann, Aimee or Christopher	140 Loretta Ct	1.0000	Yes	1
1185.01	Varney, Phyllis	211 Ski Hill Lane	1.0000	Yes	1
1624.02	Vaughan, Andrea	215 5th Ave, 14	1.0000	Yes	1
1044.03	Verstraet, Sebastian & Teresa	114 Spruce Ct	1.0000	Yes	1
1195.01	Viets, James	300 4th St	2.0000	Yes	1
1391.02	Viola, Mary	505 4th St	1.0000	Yes	1
1019.02	Wade, Barbara	102 Spruce Ct - Unit B	1.0000	Yes	1
1305.02	Wallace, Kent and Sue	415 CR 361	1.0000	No	1
1757.02	Warne, Ronald & Roberta	1720 Oak St	1.0000	Yes	1
1579.02	Warren, Cathy	807 Main St, 3	2.5000	Yes	1
1795.02	Warynick, Arlene	1261 Main St	1.0000	Yes	1
1693.01	Watson, Lenna M.	1717 Main St	1.0000	Yes	1
1527.02	Weber, Larry & Suzan	656 Oak St	1.0000	Yes	1
1187.02	Wegener-Stevens, Judith	237 4th St	1.0000	Yes	1
1235.03	Wertman, Nathan & Mollie	320 8th Ave	1.0000	Yes	1
1156.01	Western Hotel / Pieper	218 7th Ave	3.2300	Yes	1
1538.01	Western Hotel Annex / Pieper	709 2nd St	1.0000	Yes	1
1674.01	Western Hotel Rest. / Pieper	210 7th Ave	6.8000	Yes	1
1040.03	Western States Resorts LLC	110 7th Ave	6.3400	Yes	1
1754.01	White, Clyde and Patricia	1280 Main St	1.0000	Yes	1
1396.02	White, Dennis & Sherry	508 Oak St	1.0000	Yes	1
1746.01	White, Larry and Ginger	2501 Chautauqua Lane	1.0000	Yes	1
1720.03	White, Mary	1490 Oak St	1.0000	Yes	1
1139.04	White, William	2101 Main St, A-2	1.0000	Yes	1
1753.01	Whitney, Craig and Helen	1721 Hinkson Terrace	1.0000	Yes	1
1291.01	Whitt, Bill & Mary	403 2nd St	1.0000	Yes	1
1437.01	Wiesbaden Lodge	625 5th St	5.2200	Yes	1
1395.03	Wilbur, Daniel & Christina	105 5th St	1.0000	Yes	1
1361.01	Wilbur, Diane	790 Oak St, 4J 11E	1.0000	Yes	1
1068.02	Wild, Donald & Sharon Lee	125 6th Ave	1.0000	Yes	1
1314.04	Wilkinson, John M.	420 N Pinecrest	1.0000	Yes	1
1320.01	Willden, Judith	425 6th Ave	1.0000	Yes	1
1556.01	Williams, Barbara Clark & Jewel	736 2nd St	1.0000	Yes	1
1593.01	Williams, Glynn	824 Main St	1.3000	Yes	1
1202.01	Williams, Larry	303 2nd St	1.0000	Yes	1
1477.01	Winfrey, Bruce	122 6th Ave	1.0000	Yes	1
1266.03	Winterrowd, Robert	335 5th St	1.0000	Yes	1
1284.01	Wister, Eliza	805 4th St	1.0000	Yes	1
1351.01	Wister, Mary	452 Oak St	1.0000	Yes	1
1178.01	Wittrock, Tom	226 Queen St	1.0000	Yes	1
1711.03	Wold, Ryan & Jennifer	72 4th Ave	1.0000	Yes	1
1205.02	Wolf, Steve Gallion & Pamela	304 Main St	.7800	Yes	1
1263.02	Wolf, Steven Gallion & Pamela	334 Main St	1.9900	Yes	1
1381.03	Wolfram, C. Gordon	790 Oak St, 4J 17E	1.0000	Yes	1
1329.02	Wood, John & Marcy	431 4th St	1.0000	Yes	1
1039.02	Wood, K. John & Marcy	154 Loretta Ct	1.0000	Yes	1

Cust No	Name	Service Address	Unit/Share	In City	Service No
1715.02	Wood, Steven or Ruth	96 4th Ave	1.0000	Yes	1
1668.01	Woolsey, G. & M. Serra	201 10th Ave	1.0000	Yes	1
1669.01	Woolsey, G. & M. Serra	207 10th Ave	1.0000	Yes	1
1454.01	Wright-Minter, Linda	539 Main St	1.5000	Yes	1
1441.01	Wright-Minter, Linda	531 6th Ave	.5900	Yes	1
1504.01	Wright-Minter, Linda	540 6th Ave	.2100	Yes	1
1768.01	Wright-Minter, Linda	628 5th St	.2100	Yes	1
1109.03	Yale, Scott & Rebecca	1548 Hinkson Terrace	2.0000	Yes	1
1229.03	Yale, Scott & Rebecca	316 6th Ave	1.3000	Yes	1
1211.03	Yoder, Susan	306 1/2 Oak St	1.0000	Yes	1
1317.01	Zanett, Robert. & Claudia	421 Pinecrest	1.0000	Yes	1
1583.01	Zimmerman, Bill	840 2nd St	1.0000	Yes	1
1074.02	Zlatopolsky, Michael	1310 Main St - Unit 5	1.0000	Yes	1
1072.01	Zortman, Richard	1260 Oak St	1.0000	Yes	1
Grand Totals:		762	1,372.1200		

Report Criteria:

Customer.Final Bill Date = {Is NULL}

Billing.Temporary Disconnect Date = {Is NULL}

Billing.Units = {>} 0

Service.Service Number = 1

Appendix F.

Correspondence with San Miguel Power Authority Regarding Hydropower Production



Wright Water Engineers, Inc.

1666 N. Main Avenue, Suite C
Durango, Colorado 81301
(970) 259-7411 TEL
(970) 259-8758 FAX

www.wrightwater.com
e-mail: pfoster@wrightwater.com

May 29, 2020

Via email: terry.schuyler@smpa.com

Terry Schuyler
San Miguel Power Association
P.O. Box 1150
Ridgway, CO 81432

Re: SMPA Initial Determination for Hydropower City of Ouray Hydropower Project

Dear Terry,

Wright Water Engineers, Inc., (WWE), on behalf of the City of Ouray (City) and Ouray Ice Park Inc., (OIPI), is pleased to provide this letter requesting an initial determination from San Miguel Power Association (SMPA) regarding a potential hydropower project located in Ouray County within the SMPA service area. This letter provides a summary of the proposed project, a conceptual level estimate of its hydropower yield, potential project funding sources, and a rough project timeline for SMPA's consideration.

City of Ouray Raw Water Supply Pipeline Project Background

The City of Ouray currently receives its potable water from Weehawken Spring located in the Canyon Creek drainage basin south of the City (see Figure 1). During the Winter of 2018/2019, the City experienced shortages in Weehawken Spring water production due to the 2018 drought. In addition, the City had to reduce deliveries to the City's Ice Park and the City's existing Hot Springs hydropower facility which currently rely on the City's potable water supply.

To address this issue the City and OIPI received a Colorado Water Conservation Board (CWCB) grant to investigate the feasibility of developing a non-potable water supply pipeline from Weehawken Creek (Project). The overall goals of this Project are as follows:

1. Firm the City's municipal water supply by developing a new non-potable water supply and reducing water demands on the potable water system, resulting in an increased drought resiliency
2. Add an emergency back-up municipal supply line in the event of a transmission line failure resulting in an increase in water system redundancy
3. Increase hydropower production from existing and future hydropower facilities
4. Improve water quality in the Upper Uncompahgre River by replacing the discharge to the river from Hot Springs Wells with Wehawken Creek water via a heat exchange system

To meet these goals, the Project includes the installation of a new potable water supply pipeline between Weehawken Spring and the City's water storage tanks. If hydropower production is a feasible Project component, the new pipeline will include a hydropower production and a transmission station located near the intersection of Camp Bird Road and Mineral Farms Lane (see Figure 1).

After construction of the new pipeline, the existing pipeline is repurposed to provide a non-potable water supply to the City of Ouray from Weehawken Spring (see Figure 1). At this time, it is not known if the existing line is suitable for hydropower generation due to its age.

Potential Hydropower Yield

Table 1 provides a summary of the estimated hydropower yield generated by the Project. Estimates are based on average Weehawken Spring production data from 1995-2010 and from January 2016 to February 2020. It is estimated that the project could generate an average of approximately 43,000 kWh per month. Based on the estimates provided in Table 1, an approximately 100 kW transformer located near the intersection of Camp Bird Road and Mineral Farms Ln is required. Please note the location of the transformer could be located further downstream on the pipeline if preferred.

Additional Project Benefits for Existing Hydropower Facilities

The existing hydropower system for the City of Ouray Hot Spring Pool (see Figure 1) will benefit from the new raw water supply created by the Project. Currently, the City of Ouray Hot Springs Pool utilizes potable water for its hydropower facility and is not operated during drought conditions. With the addition of a non-potable water supply, the facility may be able to operate year-round.

The existing Ouray Hydroelectric Plant currently operates using water from the Uncompahgre River. Depending on the surface water yield from Weehawken Creek, it may be feasible to supply the Ouray Hydroelectric Plant with supplemental water from the raw water supply pipeline in the future.

Potential Project Funding Sources and Timeline

The current phase of this project includes development of a CWCB Loan Feasibility Study. If determined feasible, it is anticipated that a CWCB loan will cover a portion or all of the funding needed for construction of the Project. WWE is investigating other potential funding sources as part of the current phase of the Project.

Completion of the CWCB Loan Feasibility Study is currently targeted for early 2021. If the Project is determined feasible, WWE estimates final design of the Project will occur in 2022, and construction will commence in 2023. Please note this timeline is subject to change and will vary depending on the ability to secure funding for the Project.

SMPA Initial Determination


Based on the information provided herein, WWE is respectfully requesting an initial determination of the feasibility for SMPA to utilize the potential power generated by the Project. Please let us know if you require any additional information to make this determination; we are happy to provide any further material upon request. Thank you in advance for your consideration of this Project.

Sincerely,
WRIGHT WATER ENGINEERS, INC.

By



Peter R. Foster, P.E.
Vice President

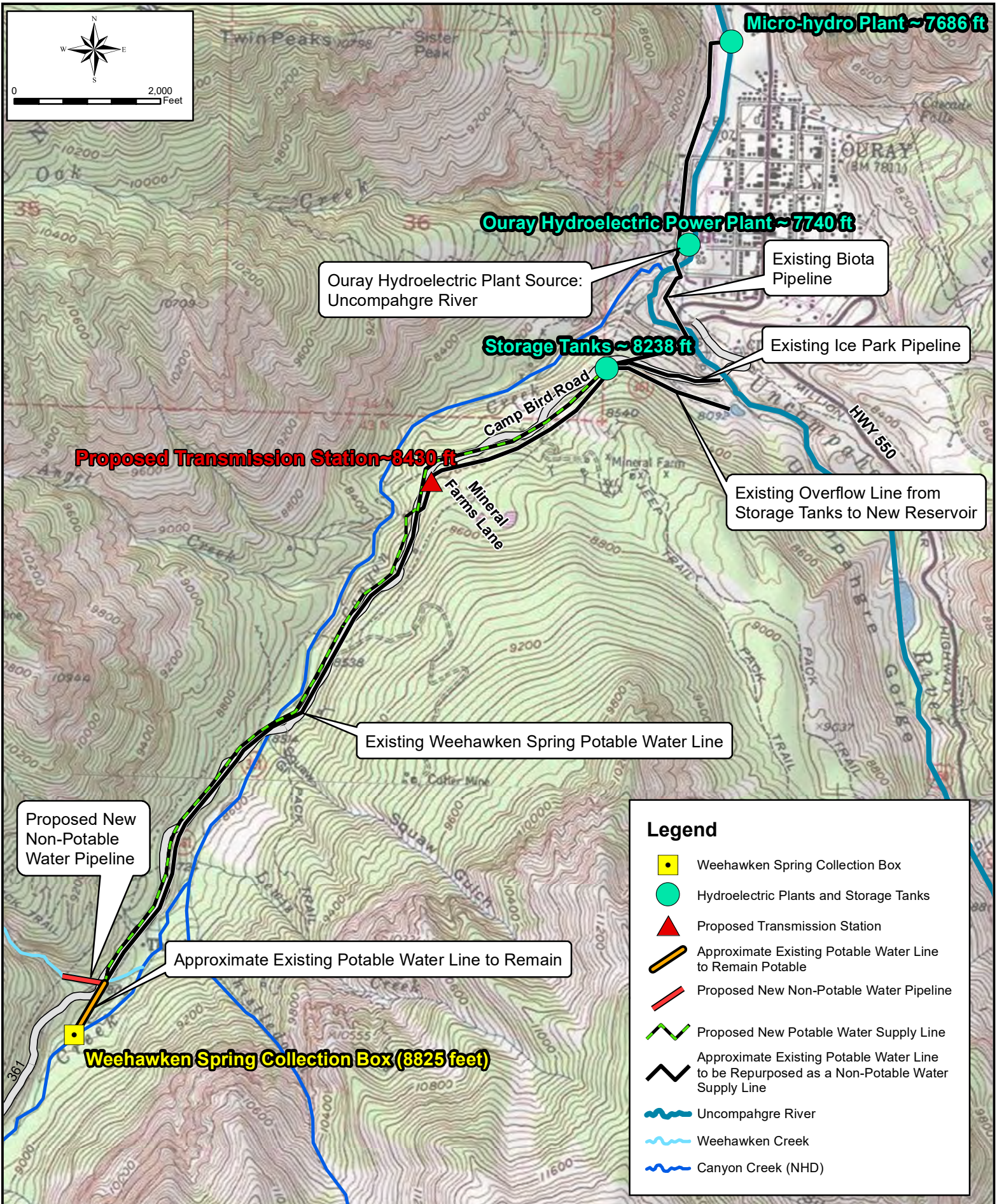
By 
Hayes A. Lenhart, P.E.
Associate Water Resources Engineer

Attachments:

Figure 1 – Proposed Project Location Vicinity Map and Existing Hydropower Facilities

Table 1 – Estimated Hydropower Production – City of Ouray Raw Water Pipeline Project

P:\051-036\140 Ice Park OIPI\Letter to SMPA\20200527 - Letter to San Miguel Power - City of Ouray Raw Water Pipeline Project.docx



Date: 5/26/2020 Document Path: P:\051-036\000 Water Right Inventory\Mapping\Figure 1 - Proposed Project Location Vicinity Map and Existing Hydropower Facilities.mxd

User Name: boliver



Wright Water Engineers, Inc.
1666 N. Main Ave., Ste C
Durango, CO 81301
(970) 259-7411 ph 259-8758 fx

OURAY COUNTY, COLORADO
**PROPOSED PROJECT LOCATION VICINITY MAP
AND EXISTING HYDROPOWER FACILITIES**

CITY OF OURAY

PROJECT NO.
051-036.000

FIGURE

1

Table 1
Estimated Hydropower Production
City of Ouray and OIPI Raw Water Supply Pipeline Project

Month	Average Flow (CFS)	Hydraulic Horsepower (HP)	Power (kW)	Power Generated (kW)		Expected Average Power Generation (kWH per Month)
	(1)	(2)	(3)	70% Efficiency (4)	80% Efficiency (5)	(6)
January	1.4	68	51	36	41	28000
February	1.5	74	56	39	44	28000
March	1.5	72	54	38	43	30000
April	2.2	104	77	54	62	42000
May	3.7	143	107	75	86	60000
June	3.9	146	109	76	87	59000
July	3.5	140	105	73	84	58000
August	2.9	126	94	66	75	53000
September	2.5	114	85	60	68	46000
October	2.3	105	78	55	62	44000
November	1.7	83	62	43	50	34000
December	1.5	74	55	39	44	31000
Maximum				76	87	60000
Minimum				36	41	28000
Average				54	62	43000

Column Notes:

- (1) Monthly average flow of the Weehawken Spring based on City of Ouray Monitoring Data from 1995-2010 and from January 2016 to April 2020.
- (2) Calculated Hydraulic Horsepower generated between Weehawken Spring and Intersection of Camp Bird Road and Mineral Farms Lane.
- (3) Column (2) x 0.75 kW per HP
- (4) Column (3) x 70%
- (5) Column (3) x 80%
- (6) Average of Column (4) and Column (5) x number of days in the month.

Hayes Lenhart

From: Terry Schuyler <terry.schuyler@smpa.com>
Sent: Tuesday, June 9, 2020 4:33 PM
To: Hayes Lenhart; Wiley Freeman; Brad Zaporski; Jeremy Fox
Cc: Peter Foster; Bob & Karen Risch; Frank Robertson
Subject: RE: Hydropower Feasibility for City of Ouray - OIPI Raw Water Pipeline Project

Hello Hayes,

We have reviewed the letter you provided and the current level of details you have developed for this project. Clearly we cannot provide any formal authorization to proceed, however based on the information you provided we can provide you a positive initial determination to utilize the potential power generated from this hydroelectric project. Once you are further along with your final designs we will be in a better position to determine how the project will conform to our policy thresholds at that time. In particular, as it stands now, it would be eligible for consideration within our Tri- State Policy 115 limitations.

Whether we are still required to conform to that policy with Tri- State, or are under any new or fewer limitations based on our Generation and Transmission supplier agreements at the time of a more formal engineering design review, will have to be determined at that time. For now we believe there are no technical or policy limitations preventing you from proceeding with the development of a CWCB Loan Feasibility Study.

Please keep us posted as you progress.

Thank you

Terry Schuyler
Energy Services and Key Account Executive



P.O. Box 1150
Ridgway, CO 81432
Office: 970-626-5549 x232
Mobile: 303-883-6272
Terry.schuyler@smpa.com
www.smpa.com



It is the Mission of San Miguel Power Association, Inc. to demonstrate corporate responsibility and community service while providing our members with safe, reliable, cost effective and environmentally responsible electrical service.

SMPA is an equal opportunity provider and employer.

San Miguel Power Association is an equal opportunity provider and employer. In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202)720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800)877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at http://www.ascr.usda.gov/complaint_filing_cust.html and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call

(866) 632-9992. Submit your completed form or letter to USDA by:

(1) mail: U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights

Hayes Lenhart

From: Terry Schuyler <terry.schuyler@smpa.com>
Sent: Monday, July 20, 2020 5:57 PM
To: Hayes Lenhart
Cc: Peter Foster; Wiley Freeman; Jeremy Fox
Subject: RE: Hydropower Feasibility for City of Ouray - OIPI Raw Water Pipeline Project

Hello Hayes,

Per our previous discussions I recall you were looking at a 75-150 kW hydro generator (perhaps it was two 75 kW units). Based on our situation today we could take all the power and energy from that range of generators. When you get closer in design we will have you fill out an Engineering Request form to conduct a system impact study to explore any capacity constraints and estimate interconnection costs.

The price per kWh would have to be negotiated in a Power Purchase Agreement (PPA). The parameters of the price per kWh would depend upon our Power Supplier Agreement and the policies we are bound to at that time. If we were to negotiate that today under our Tri-State All Requirements Contract we would be looking at purchasing your energy in a range from \$.04-.05 / kWh.

We cannot offer any future guarantee about either point until we actually engage in the engineering study and PPA process. Please keep us posted on the progress and schedule for this project.

Best regards,

Terry Schuyler
Energy Services and Key Account Executive



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(866) 632-9992. Submit your completed form or letter to USDA by:

(1) mail: U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW
Washington, D.C. 20250-9410;

Appendix G.

Sponsor Creditworthiness Documents

9-10 Water and Sewer Use Rates

- A. Water and sewer use rates will be calculated on the basis of a single family dwelling. An equivalency factor (EQR) will be applied to the base rate to scale fees to normal usage for the particular structure or business.
- B. Rate Structure

TYPE OF FACILITY	PER UNIT/SPACE	SERVICE FEE	ADDITIONAL EQR
Single Family Dwelling	1.00	\$36.00 per property	
Multiple Family Dwelling Townhouse Condominium	1.00	\$36.00 per unit	.25 per public washing machine
Apartment Building	1.00 per apartment	\$36.00 per property	.25 per public washing machine
Permanent Trailers Mobile Home Park	1.00 per space	\$36.00 per property	

Overnight Mobile Home Park RV Park Campground	1.00 per Manager's Unit; .22 per space with sewer hookup; .11 per all other spaces	\$36.00 per property	.25 per public washing machine; 1.00 per public dump station
Hotels, Motels, Bed and Breakfasts	1.00 per Manager's Unit; .16 per bed; .02 per kitchen facility	\$36.00 per property	.05 per 1,000 gallons for swimming pools, hot tubs, etc; .25 per public washing machine; .03 per bed laundered on site
Hospitals Nursing Homes	.20 per bed	\$36.00 per property	
Churches	1.00 per parsonage; .01 per seat	\$36.00 per property	.70 per social area or kitchen facility
Private Clubs	.01 per seat	\$36.00 per property	.70 per social area or kitchen facility; 1.00 per bar
Schools	.06 per student	\$36.00 per property	
Offices Day Workers Medical Center	.30 per 1,000 sq. ft	\$36.00 per property	
Small Shops	.30 per space	\$36.00 per property	
Factories Plants Livery Barns	.50 per 1,000 sq. ft	\$36.00 per property	
Movie Theaters Arenas	.50 per 1,000 sq. ft	\$36.00 per property	
Grocery Store Market	.30 per 1,000 sq. ft	\$36.00 per property	
Service Station	.50 per pump	\$36.00 per property	
Car Wash	1.20 per wash bay	\$36.00 per property	
Laundry (Public)	.25 per machine	\$36.00 per property	
Laundry Business	1.00 per machine	\$36.00 per property	
Taverns/Bar	2.00 per 1st 20 seats; .60 per additional 10 seats	\$36.00 per property	
Food Service	2.00 per 1st 20 seats; .60 per additional 10 seats	\$36.00 per property	

Deli, Ice Cream Parlor	1.00 per 1st 20 seats; .30 per additional 10 seats	\$36.00 per property	
Beauty/Barber Shop	1.00 per property	\$36.00 per property	
Private Swimming Pool	.05 per 1,000 gallon if on City Water or Sewer System		
Ouray County Historical Society Museum	1.00 per museum unit	\$36.00 per property	
Daycare	.02 per child capacity	\$36.00 per property	
Emergency Response Facility	1.00 per facility	\$36.00 per property	

C. Water and Sewer Rates

1. Water Base Rate is \$32.05 per month per EQR.
2. Sewer Base Rate is \$50.84 per month per EQR.
3. Yearly Service Fees are set out in Subsection B.
4. Water Debt Surcharge is \$1.87 per month, per EQR.
5. Water System Upgrade Surcharge is \$14.00 per month per EQR.
6. Wastewater Treatment Surcharge is \$24.13 per month per EQR.

D. Special Charges

1. If any user is discharging toxic or other pollutants in concentrations higher than that of a residential user which causes increased treatment or system costs, a surcharge may be imposed based upon the excess concentrations.
2. All water user rates for users outside of the City limits shall be classified according to the above contained and set forth classifications, but the rates therefor shall be twice the rates applicable to users inside the City limits.
3. In all special cases where the water and sewer user does not come within any of the above set forth classifications and does not use a water meter due to unusual circumstances, or to unusual or intermittent requirements of the use of water and sewer, City Council may establish a special rate therefor, but no such special water and sewer rate contract shall be entered into for a period longer than one (1) year at a time and the rate or rates for such special usage of sewer and sewer under any special contract shall be based as nearly as may be practical upon general water and sewer rate structure herein provided.
4. In cases where there is a transfer of City utility account customers due to the conveyance of property served by the City's water and sewer system, there shall be a \$25.00 Utility Account Transfer Charge billed to the new property owner as a new customer of the utility account. This charge shall be incurred and billed at the time of such transfer, with payment due within thirty (30)

days of billing.

E. Additional Provisions

All customers shall be required to properly complete and submit to the City, information, declarations, and surveys upon the City's request, as appropriate to facilitate the administration of this Chapter and the EQR system.

(Source: Ordinance No. 12, 2020; Ordinance No. 5, 2019; Ordinance No. 9, 2018; Ordinance No. 8, 2016; Ordinance No. 10, 2015; Ordinance No. 10, 2014; Ordinance No. 11, 2013)

[Mobile Version](#)

CITY OF OURAY, COLORADO
Statement of Net Position
Enterprise Funds
December 31, 2017

	<u>Water Fund</u>	<u>Sewer Fund</u>	<u>Utilities-CI Fund</u>
ASSETS			
Current Assets:			
Cash and cash equivalents	\$ (40,532)	\$ 559,884	\$ 228,069
Receivables:			
Accounts	87,767	16,977	-
Other	32,000	-	-
Inventories	19,901	5,319	-
Total current assets	<u>99,136</u>	<u>582,180</u>	<u>228,069</u>
Restricted cash	<u>132,000</u>	<u>-</u>	<u>-</u>
Capital assets:			
Land and improvements	149,131	-	-
Construction in progress	-	-	-
Utility system	5,265,050	2,187,209	-
Geothermal wells	-	-	-
Swimming pool	-	-	-
Pool filtration system	-	-	-
Box Cañon	-	-	-
Parks and other assets	-	-	-
Buildings	82,850	40,126	-
Equipment and furniture	277,703	375,852	-
Less accumulated depreciation	(2,212,937)	(1,999,077)	-
Total capital assets	<u>3,561,797</u>	<u>604,110</u>	<u>-</u>
Total Assets	<u>\$ 3,792,933</u>	<u>\$ 1,186,290</u>	<u>\$ 228,069</u>
LIABILITIES			
Current liabilities:			
Accounts payable	\$ 14,821	\$ 33,954	\$ -
Accrued payroll	26,845	26,250	-
Customer deposits	375	-	-
Accrued interest payable	5,227	-	-
Deferred revenues	104,201	43,663	30,000
Current portion of long term debt	-	-	-
Total current liabilities	<u>151,469</u>	<u>103,867</u>	<u>30,000</u>
Noncurrent liabilities			
Bonds payable	-	-	-
Loans and leases payable	237,424	45,214	-
Total noncurrent liabilities	<u>237,424</u>	<u>45,214</u>	<u>-</u>
NET POSITION			
Invested in capital assets, net of related debt	3,324,373	558,896	-
Restricted for O&M expenses	86,657	-	-
Unrestricted	(6,990)	478,313	198,069
Total net position	<u>\$ 3,404,040</u>	<u>\$ 1,037,209</u>	<u>\$ 198,069</u>

<u>Refuse Fund</u>	<u>Pool Renovation Fund</u>	<u>Parks Fund</u>	<u>Total Enterprise Funds</u>
\$ 37,217	\$ -	\$ 837,970	\$ 1,622,608
6,313	100,000	25,781	236,838
-	100,000	-	132,000
-	-	304	25,524
<u>43,530</u>	<u>200,000</u>	<u>864,055</u>	<u>2,016,970</u>
-	870,785	-	1,002,785
-	-	-	149,131
-	10,231,997	-	10,231,997
-	-	-	7,452,259
-	-	176,703	176,703
-	-	2,262,843	2,262,843
-	-	920,713	920,713
-	-	375,358	375,358
-	-	1,091,895	1,091,895
-	-	-	122,976
-	-	-	653,555
-	-	(3,225,669)	(7,437,683)
-	10,231,997	1,601,843	15,999,747
<u>\$ 43,530</u>	<u>\$ 11,302,782</u>	<u>\$ 2,465,898</u>	<u>\$ 19,019,502</u>
\$ 10,775	\$ 548,346	\$ 110,060	\$ 717,956
-	-	61,464	114,559
-	-	2,471	2,846
-	-	-	5,227
12,196	-	-	190,060
-	-	-	-
<u>22,971</u>	<u>548,346</u>	<u>173,995</u>	<u>1,030,648</u>
-	5,300,000	-	5,300,000
-	2,850,000	-	3,132,638
-	8,150,000	-	8,432,638
-	-	1,601,843	5,485,112
-	-	-	86,657
20,559	2,604,436	690,060	3,984,447
<u>\$ 20,559</u>	<u>\$ 2,604,436</u>	<u>\$ 2,291,903</u>	<u>\$ 9,556,216</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO
Statement of Revenues, Expenses and Changes in Net Position
Enterprise Funds
Year Ended December 31, 2017

	<u>Water Fund</u>	<u>Sewer Fund</u>	<u>Utilities-CI Fund</u>
Operating Revenues			
Charges for services	\$ 490,655	\$ 479,489	\$ -
Miscellaneous	2,237	-	-
Total operating revenues	<u>492,892</u>	<u>479,489</u>	<u>-</u>
Operating Expenses			
Personal services	247,292	240,817	-
Contractual services	27,207	15,375	-
Utilities	4,868	27,267	-
Repairs and maintenance	23,843	47,319	-
Other supplies and expenses	81,562	71,798	-
Insurance claims and expenses	4,720	4,200	-
Depreciation	191,509	131,234	-
Total operating expenses	<u>581,001</u>	<u>538,010</u>	<u>-</u>
Operating income (loss)	<u>(88,109)</u>	<u>(58,521)</u>	<u>-</u>
Nonoperating revenues (expenses)			
Interest income	260	1,074	411
Miscellaneous	-	-	-
Transfers In (out)	-	-	-
Operating grants and contributions	-	-	-
Interest expense	(10,469)	(851)	-
Total nonoperating revenues (expenses)	<u>(10,209)</u>	<u>223</u>	<u>411</u>
Income (loss) before transfers and and Capital Contributions	(98,318)	(58,298)	411
Capital contributions-Investment Fees	<u>3,750</u>	<u>3,750</u>	<u>22,500</u>
Change in net position	(94,568)	(54,548)	22,911
Total net position, January 1	3,498,608	1,091,757	175,158
Total net position, December 31	<u>\$ 3,404,040</u>	<u>\$ 1,037,209</u>	<u>\$ 198,069</u>

Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 148,831	\$ -	\$ 1,827,992	\$ 2,946,967
-	-	-	2,237
<u>148,831</u>	<u>-</u>	<u>1,827,992</u>	<u>2,949,204</u>
-	-	902,169	1,390,278
153,600	-	21,179	217,361
-	-	49,933	82,068
-	-	33,203	104,365
-	-	372,730	526,090
-	-	12,724	21,644
-	-	201,554	524,297
<u>153,600</u>	<u>-</u>	<u>1,593,492</u>	<u>2,866,103</u>
<u>(4,769)</u>	<u>-</u>	<u>234,500</u>	<u>83,101</u>
-	8,536	-	10,281
-	574,622	-	574,622
-	-	8,124	8,124
-	2,008,654	-	2,008,654
-	-	(284,963)	(296,283)
<u>-</u>	<u>2,591,812</u>	<u>(276,839)</u>	<u>2,305,398</u>
(4,769)	2,591,812	(42,339)	2,388,499
-	-	-	30,000
(4,769)	2,591,812	(42,339)	2,418,499
25,328	12,624	2,334,242	7,137,717
<u>\$ 20,559</u>	<u>\$ 2,604,436</u>	<u>\$ 2,291,903</u>	<u>\$ 9,556,216</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO

Statement of Cash Flows

Enterprise Funds

Year Ended December 31, 2017

	Water Fund	Sewer Fund
Cash Flows From Operating Activities		
Cash received from charges for services	\$ 422,604	\$ 465,859
Cash payments for goods and services	(132,397)	(141,387)
Cash payments to employees for services	(247,292)	(240,817)
Net cash provided (used) by operating activities	<u>42,915</u>	<u>83,655</u>
Cash Flows from Noncapital Financing Activities		
Grants and contributions	-	-
Miscellaneous	-	-
Transfers from (to) other funds	-	-
Net cash provided (used) by noncapital financing activities	<u>-</u>	<u>-</u>
Cash Flows from Capital and Related Financing Activities		
Investment fees	3,750	3,750
Acquisition of capital assets	(80,145)	(45,281)
Principal paid on loans and leases	(68,801)	(4,692)
Proceeds from Loans	19,565	19,565
Interest expense	(10,469)	(851)
Net cash provided (used) by capital and related financing activities	<u>(136,100)</u>	<u>(27,509)</u>
Cash Flows from Investing Activities		
Interest on investments	<u>260</u>	<u>1,074</u>
Net increase (decrease) in cash and equivalents	(92,925)	57,220
Cash balances, January 1	184,393	502,664
Cash balances, December 31	<u>\$ 91,468</u>	<u>\$ 559,884</u>
Reconciling of operating income (loss) to net cash provided (used) by operating activities:		
Operating income (loss)	\$ (88,109)	\$ (58,521)
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Depreciation expense	191,509	131,234
Assets (increase) decrease:		
Accounts receivable	(84,259)	(13,630)
Liabilities increase (decrease):		
Accounts payable	9,803	24,572
Deferred revenue	13,971	-
Customer deposits	-	-
Total adjustments	<u>131,024</u>	<u>142,176</u>
Net cash provided (used) by operating activities	<u>\$ 42,915</u>	<u>\$ 83,655</u>

Utilities-CI Fund	Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ -	\$ 143,634	\$ -	\$ 1,904,113	\$ 2,936,210
-	(155,082)	(290,499)	(404,641)	(1,124,006)
-	-	-	(902,169)	(1,390,278)
-	(11,448)	(290,499)	597,303	421,926
-	-	1,908,654	-	1,908,654
-	-	-	-	-
-	-	-	8,124	8,124
-	-	1,908,654	8,124	1,916,778
22,500	-	-	-	30,000
-	-	(8,048,269)	(26,962)	(8,200,657)
-	-	-	-	(73,493)
-	-	2,750,000	-	2,789,130
-	-	-	(284,963)	(296,283)
22,500	-	(5,298,269)	(311,925)	(5,751,303)
411	-	8,536	-	10,281
22,911	(11,448)	(3,671,578)	293,502	(3,402,318)
205,158	48,665	4,542,363	544,468	6,027,711
<u>\$ 228,069</u>	<u>\$ 37,217</u>	<u>\$ 870,785</u>	<u>\$ 837,970</u>	<u>\$ 2,625,393</u>
\$ -	\$ (4,769)	\$ -	\$ 234,500	\$ 83,101
-	-	-	201,554	524,297
-	(5,197)	-	76,121	(26,965)
-	(1,482)	(290,499)	83,768	(173,838)
-	-	-	-	13,971
-	-	-	1,360	1,360
-	(6,679)	(290,499)	362,803	338,825
<u>\$ -</u>	<u>\$ (11,448)</u>	<u>\$ (290,499)</u>	<u>\$ 597,303</u>	<u>\$ 421,926</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO

Statement of Net Position

Enterprise Funds

December 31, 2018

	Water Fund	Sewer Fund	Utilities-CI Fund
ASSETS			
Current Assets:			
Cash and cash equivalents	\$ (1,390)	\$ 539,672	\$ 356,083
Receivables:			
Accounts	85,780	62,619	-
Other	325	11,907	-
Inventories	19,901	5,319	-
Total current assets	<u>104,616</u>	<u>619,517</u>	<u>356,083</u>
Restricted cash	<u>132,000</u>	<u>-</u>	<u>-</u>
Capital assets:			
Land and improvements	149,131	-	-
Utility system	5,284,182	2,279,911	-
Geothermal wells	-	-	-
Swimming pool	-	-	-
Pool filtration system	-	-	-
Box Cañon	-	-	-
Parks and other assets	-	-	-
Buildings	75,020	14,498	-
Equipment and furniture	287,898	340,900	-
Less accumulated depreciation	(2,371,687)	(2,117,089)	-
Total capital assets	<u>3,424,544</u>	<u>518,220</u>	<u>-</u>
Total Assets	<u>\$ 3,661,160</u>	<u>\$ 1,137,737</u>	<u>\$ 356,083</u>
LIABILITIES			
Current liabilities:			
Accounts payable	\$ 19,266	\$ 35,385	\$ -
Accrued payroll	17,979	17,716	-
Customer deposits	375	-	-
Accrued interest payable	5,227	-	-
Deferred revenues	72,342	59,861	30,000
Current portion of long term debt	86,142	16,748	-
Total current liabilities	<u>201,331</u>	<u>129,710</u>	<u>30,000</u>
Noncurrent liabilities			
Bonds payable	-	-	-
Loans and leases payable	84,336	28,219	-
Total noncurrent liabilities	<u>84,336</u>	<u>28,219</u>	<u>-</u>
NET POSITION			
Invested in capital assets, net of related debt	3,254,066	473,253	-
Restricted for O&M expenses	86,657	-	-
Unrestricted	34,770	506,555	326,083
Total net position	<u>\$ 3,375,493</u>	<u>\$ 979,808</u>	<u>\$ 326,083</u>

Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 23,463	\$ -	\$ 940,950	\$ 1,858,778
14,656	-	29,043	192,098
-	-	-	12,232
-	-	304	25,524
<u>38,119</u>	<u>-</u>	<u>970,297</u>	<u>2,088,632</u>
-	628,504	-	760,504
-	-	-	149,131
-	-	-	7,564,093
-	-	167,138	167,138
-	-	12,211,465	12,211,465
-	-	5,202	5,202
-	-	351,707	351,707
-	-	1,413,608	1,413,608
-	-	-	89,518
-	-	-	628,798
-	-	(2,637,464)	(7,126,240)
<u>-</u>	<u>-</u>	<u>11,511,656</u>	<u>15,454,420</u>
<u>\$ 38,119</u>	<u>\$ 628,504</u>	<u>\$ 12,481,953</u>	<u>\$ 18,303,556</u>
\$ 12,953	\$ 33,341	\$ 72,675	\$ 173,620
-	-	48,816	84,511
-	-	3,501	3,876
-	-	-	5,227
15,935	-	-	178,138
-	-	225,000	327,890
<u>28,888</u>	<u>33,341</u>	<u>349,992</u>	<u>773,262</u>
-	-	5,000,000	5,000,000
-	-	2,700,000	2,812,555
-	-	7,700,000	7,812,555
-	-	3,586,656	7,313,975
-	-	-	86,657
9,231	595,163	845,305	2,317,107
<u>\$ 9,231</u>	<u>\$ 595,163</u>	<u>\$ 4,431,961</u>	<u>\$ 9,717,739</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO
Statement of Revenues, Expenses and Changes in Net Position
Enterprise Funds
Year Ended December 31, 2018

	<u>Water Fund</u>	<u>Sewer Fund</u>	<u>Utilities-CI Fund</u>
Operating Revenues			
Charges for services	\$ 558,228	\$ 490,288	\$ 25,735
Miscellaneous	1,342	-	-
Total operating revenues	<u>559,570</u>	<u>490,288</u>	<u>25,735</u>
Operating Expenses			
Personal services	271,569	259,743	-
Contractual services	70,971	30,775	-
Utilities	5,571	30,782	-
Repairs and maintenance	4,542	51,314	-
Other supplies and expenses	84,279	108,694	-
Insurance claims and expenses	7,540	6,704	-
Depreciation	158,749	118,012	-
Total operating expenses	<u>603,221</u>	<u>606,024</u>	<u>-</u>
Operating income (loss)	<u>(43,651)</u>	<u>(115,736)</u>	<u>25,735</u>
Nonoperating revenues (expenses)			
Interest income	307	1,448	654
Operating grants and contributions	-	23,477	-
Interest expense	(9,203)	(2,175)	-
Total nonoperating revenues (expenses)	<u>(8,896)</u>	<u>22,750</u>	<u>654</u>
Income (loss) before transfers and and Capital Contributions	(52,547)	(92,986)	26,389
Capital contributions-Investment Fees	<u>17,000</u>	<u>16,875</u>	<u>101,625</u>
Change in net position	(35,547)	(76,111)	128,014
Total net position, January 1	3,411,040	1,055,919	198,069
Residual transfer	-	-	-
Total net position, December 31	<u><u>\$ 3,375,493</u></u>	<u><u>\$ 979,808</u></u>	<u><u>\$ 326,083</u></u>

Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 161,175	\$ -	\$ 2,368,164	\$ 3,603,590
-	-	-	1,342
<u>161,175</u>	<u>-</u>	<u>2,368,164</u>	<u>3,604,932</u>
-	-	1,102,958	1,634,270
172,503	-	135,533	409,782
-	-	105,756	142,109
-	-	41,940	97,796
-	-	318,754	511,727
-	-	8,096	22,340
-	-	424,742	701,503
<u>172,503</u>	<u>-</u>	<u>2,137,779</u>	<u>3,519,527</u>
<u>(11,328)</u>	<u>-</u>	<u>230,385</u>	<u>85,405</u>
-	-	1,934	4,343
-	175,281	-	198,758
-	-	(309,625)	(321,003)
<u>-</u>	<u>175,281</u>	<u>(307,691)</u>	<u>(117,902)</u>
(11,328)	175,281	(77,306)	(32,497)
<u>-</u>	<u>-</u>	<u>-</u>	<u>135,500</u>
(11,328)	175,281	(77,306)	103,003
20,559	2,604,436	2,324,713	9,614,736
-	(2,184,554)	2,184,554	-
<u>\$ 9,231</u>	<u>\$ 595,163</u>	<u>\$ 4,431,961</u>	<u>\$ 9,717,739</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO

Statement of Cash Flows

Enterprise Funds

Year Ended December 31, 2018

	Water Fund	Sewer Fund
Cash Flows From Operating Activities		
Cash received from charges for services	\$ 559,507	\$ 459,113
Cash payments for goods and services	(168,458)	(226,839)
Cash payments to employees for services	(271,569)	(259,743)
Net cash provided (used) by operating activities	119,480	(27,469)
Cash Flows from Noncapital Financing Activities		
Grants and contributions	-	23,477
Miscellaneous	-	-
Transfers from (to) other funds	-	-
Net cash provided (used) by noncapital financing activities	-	23,477
Cash Flows from Capital and Related Financing Activities		
Investment fees	17,000	16,875
Acquisition of capital assets	(5,878)	(16,503)
Principal paid on loans and leases	(82,564)	(15,865)
Proceeds from Loans	-	-
Interest expense	(9,203)	(2,175)
Net cash provided (used) by capital and related financing activities	(80,645)	(17,668)
Cash Flows from Investing Activities		
Interest on investments	307	1,448
Net increase (decrease) in cash and equivalents	39,142	(20,212)
Cash balances, January 1	91,468	559,884
Cash balances, December 31	\$ 130,610	\$ 539,672
Reconciling of operating income (loss) to net cash provided (used) by operating activities:		
Operating income (loss)	\$ (43,651)	\$ (115,736)
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Depreciation expense	158,749	118,012
Assets (increase) decrease:		
Accounts receivable	1,662	(57,549)
Liabilities increase (decrease):		
Accounts payable	4,445	1,430
Accrued payroll	(8,866)	10,175
Deferred revenues	7,141	16,199
Total adjustments	163,131	88,267
Net cash provided (used) by operating activities	\$ 119,480	\$ (27,469)

Utilities-CI Fund	Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 25,735	\$ 156,571	\$ 200,000	\$ 2,386,997	\$ 3,787,923
-	(170,325)	(515,005)	(646,434)	(1,727,061)
-	-	-	(1,102,958)	(1,634,270)
<u>25,735</u>	<u>(13,754)</u>	<u>(315,005)</u>	<u>637,605</u>	<u>426,592</u>
-	-	175,281	-	198,758
-	-	-	-	-
-	-	-	-	-
<u>-</u>	<u>-</u>	<u>175,281</u>	<u>-</u>	<u>198,758</u>
101,625	-	-	-	135,500
-	-	(102,557)	-	(124,938)
-	-	-	(225,000)	(323,429)
-	-	-	-	-
-	-	-	(309,625)	(321,003)
<u>101,625</u>	<u>-</u>	<u>(102,557)</u>	<u>(534,625)</u>	<u>(633,870)</u>
654	-	-	-	2,409
128,014	(13,754)	(242,281)	102,980	(6,111)
228,069	37,217	870,785	837,970	2,625,393
<u>\$ 356,083</u>	<u>\$ 23,463</u>	<u>\$ 628,504</u>	<u>\$ 940,950</u>	<u>\$ 2,619,282</u>
\$ 25,735	\$ (11,328)	\$ -	\$ 230,385	\$ 85,405
-	-	-	424,742	701,503
-	(8,343)	200,000	(3,262)	132,508
-	2,178	(515,005)	(37,385)	(544,337)
-	-	-	22,095	23,404
-	3,739	-	1,030	28,109
-	(2,426)	(315,005)	407,220	341,187
<u>\$ 25,735</u>	<u>\$ (13,754)</u>	<u>\$ (315,005)</u>	<u>\$ 637,605</u>	<u>\$ 426,592</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO

Statement of Net Position

Enterprise Funds

December 31, 2019

	Water Fund	Sewer Fund	Utilities-CI Fund
ASSETS			
Current Assets:			
Cash and cash equivalents	\$ 96,844	\$ 567,139	\$ 652,591
Receivables:			
Accounts	62,293	82,357	-
Other	-	-	-
Inventories	19,901	5,319	-
Total current assets	<u>179,038</u>	<u>654,815</u>	<u>652,591</u>
Restricted cash	<u>132,000</u>	<u>-</u>	<u>-</u>
Capital assets:			
Land and improvements	149,131	-	-
Utility system	5,354,554	2,104,423	-
Geothermal wells	-	-	-
Swimming pool	-	-	-
Pool filtration system	-	-	-
Box Cañon	-	-	-
Parks and other assets	-	-	-
Buildings	75,020	14,497	-
Equipment and furniture	269,460	329,865	-
Less accumulated depreciation	(2,517,160)	(2,085,392)	-
Total capital assets	<u>3,331,005</u>	<u>363,393</u>	<u>-</u>
Total Assets	<u>\$ 3,642,043</u>	<u>\$ 1,018,208</u>	<u>\$ 652,591</u>
LIABILITIES			
Current liabilities:			
Accounts payable	\$ 100,930	\$ 7,142	\$ -
Accrued payroll	18,082	17,817	-
Customer deposits	375	-	-
Accrued interest payable	5,227	-	-
Unearned revenues	75,225	59,861	30,000
Current portion of long term debt	73,985	17,869	-
Total current liabilities	<u>273,824</u>	<u>102,689</u>	<u>30,000</u>
Noncurrent liabilities			
Bonds payable	-	-	-
Loans and leases payable	10,954	10,954	-
Total noncurrent liabilities	<u>10,954</u>	<u>10,954</u>	<u>-</u>
NET POSITION			
Invested in capital assets, net of related debt	3,246,066	334,570	-
Restricted for O&M expenses	86,657	-	-
Unrestricted	24,542	569,995	622,591
Total net position	<u>\$ 3,357,265</u>	<u>\$ 904,565</u>	<u>\$ 622,591</u>

Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 29,691	\$ -	\$ 1,528,650	\$ 2,874,915
12,160	-	25,417	182,227
1,596	-		1,596
-	-	304	25,524
<u>43,447</u>	<u>-</u>	<u>1,554,371</u>	<u>3,084,262</u>
-	-		132,000
-	-	-	149,131
-	-	-	7,458,977
-	-	167,138	167,138
-	-	12,512,490	12,512,490
-	-	5,202	5,202
-	-	351,707	351,707
-	-	1,413,608	1,413,608
-	-	-	89,517
-	-	-	599,325
-	-	(3,239,136)	(7,841,688)
<u>-</u>	<u>-</u>	<u>11,211,009</u>	<u>14,905,407</u>
<u>\$ 43,447</u>	<u>\$ -</u>	<u>\$ 12,765,380</u>	<u>\$ 18,121,669</u>
\$ -	\$ -	\$ 40,383	\$ 148,455
-	-	49,018	84,917
-	-	4,947	5,322
-	-	-	5,227
15,935	-	-	181,021
-	-	230,000	321,854
<u>15,935</u>	<u>-</u>	<u>324,348</u>	<u>746,796</u>
-	-	4,850,000	4,850,000
-	-	2,620,000	2,641,908
-	-	7,470,000	7,491,908
-	-	3,511,009	7,091,645
-	-	-	86,657
27,512	-	1,460,023	2,704,663
<u>\$ 27,512</u>	<u>\$ -</u>	<u>\$ 4,971,032</u>	<u>\$ 9,882,965</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO
Statement of Revenues, Expenses and Changes in Net Position
Enterprise Funds
Year Ended December 31, 2019

	Water Fund	Sewer Fund	Utilities-CI Fund
Operating Revenues			
Charges for services	\$ 600,658	\$ 680,064	\$ 370,813
Miscellaneous	729	1,296	-
Total operating revenues	<u>601,387</u>	<u>681,360</u>	<u>370,813</u>
Operating Expenses			
Personal services	346,026	383,471	-
Contractual services	37,018	33,006	-
Utilities	5,156	30,922	-
Repairs and maintenance	86,227	25,981	-
Other supplies and expenses	21,816	135,169	-
Insurance claims and expenses	7,488	6,659	-
Depreciation	172,770	44,389	-
Total operating expenses	<u>676,501</u>	<u>659,597</u>	<u>-</u>
Operating income (loss)	<u>(75,114)</u>	<u>21,763</u>	<u>370,813</u>
Nonoperating revenues (expenses)			
Interest income	1,755	7,828	7,708
Loss on sale of assets	(2,781)	-	-
Interest expense	(6,229)	(1,897)	-
Total nonoperating revenues (expenses)	<u>(7,255)</u>	<u>5,931</u>	<u>7,708</u>
Income (loss) before transfers and and Capital Contributions	(82,369)	27,694	378,521
Transfers in (out)	52,891	-	(82,013)
Capital contributions-Investment Fees	<u>11,250</u>	<u>7,500</u>	<u>-</u>
Change in net position	(18,228)	35,194	296,508
Total net position, January 1	3,375,493	869,371	326,083
Residual transfer	-	-	-
Total net position, December 31	<u><u>\$ 3,357,265</u></u>	<u><u>\$ 904,565</u></u>	<u><u>\$ 622,591</u></u>

Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 203,388	\$ -	\$ 2,437,338	\$ 4,292,261
-	-	-	2,025
<u>203,388</u>	<u>-</u>	<u>2,437,338</u>	<u>4,294,286</u>
-	-	1,075,611	1,805,108
175,107	-	78,720	323,851
-	-	118,837	154,915
-	-	89,763	201,971
-	-	214,826	371,811
-	-	10,385	24,532
-	-	601,671	818,830
<u>175,107</u>	<u>-</u>	<u>2,189,813</u>	<u>3,701,018</u>
<u>28,281</u>	<u>-</u>	<u>247,525</u>	<u>593,268</u>
-	-	-	17,291
-	-	-	(2,781)
-	-	(303,617)	(311,743)
-	-	(303,617)	(297,233)
28,281	-	(56,092)	296,035
(10,000)	(301,025)	301,025	(39,122)
-	-	-	18,750
18,281	(301,025)	244,933	275,663
9,231	595,163	4,431,961	9,607,302
-	(294,138)	294,138	-
<u>\$ 27,512</u>	<u>\$ -</u>	<u>\$ 4,971,032</u>	<u>\$ 9,882,965</u>

The accompanying notes are an integral part of this statement.

CITY OF OURAY, COLORADO

Statement of Cash Flows

Enterprise Funds

Year Ended December 31, 2019

	Water Fund	Sewer Fund
Cash Flows From Operating Activities		
Cash received from charges for services	\$ 628,186	\$ 673,631
Cash payments for goods and services	(76,042)	(259,980)
Cash payments to employees for services	(346,026)	(383,471)
Net cash provided (used) by operating activities	206,118	30,180
Cash Flows from Noncapital Financing Activities		
Grants and contributions	-	-
Miscellaneous	-	-
Transfers from (to) other funds	52,891	-
Net cash provided (used) by noncapital financing activities	52,891	-
Cash Flows from Capital and Related Financing Activities		
Investment fees	11,250	7,500
Acquisition of capital assets	(82,013)	-
Principal paid on loans and leases	(85,538)	(16,144)
Interest expense	(6,229)	(1,897)
Net cash provided (used) by capital and related financing activities	(162,530)	(10,541)
Cash Flows from Investing Activities		
Interest on investments	1,755	7,828
Net increase (decrease) in cash and equivalents	98,234	27,467
Cash balances, January 1	130,610	539,672
Cash balances, December 31	\$ 228,844	\$ 567,139
Reconciling of operating income (loss) to net cash provided (used) by operating activities:		
Operating income (loss)	\$ (75,114)	\$ 21,763
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities:		
Depreciation expense	172,770	44,389
Assets (increase) decrease:		
Accounts receivable	23,812	(7,831)
Liabilities increase (decrease):		
Accounts payable	81,663	(28,243)
Accrued payroll	104	102
Unearned revenues	2,883	-
Total adjustments	281,232	8,417
Net cash provided (used) by operating activities	\$ 206,118	\$ 30,180

Utilities-CI Fund	Refuse Fund	Pool Renovation Fund	Parks Fund	Total Enterprise Funds
\$ 370,813	\$ 204,288	\$ -	\$ 2,441,166	\$ 4,318,084
-	(188,060)	(33,341)	(543,376)	(1,100,799)
-	-	-	(1,075,611)	(1,805,108)
<u>370,813</u>	<u>16,228</u>	<u>(33,341)</u>	<u>822,179</u>	<u>1,412,177</u>
-	-	-	-	-
-	-	-	-	-
<u>(82,013)</u>	<u>(10,000)</u>	<u>(595,163)</u>	<u>595,163</u>	<u>(39,122)</u>
<u>(82,013)</u>	<u>(10,000)</u>	<u>(595,163)</u>	<u>595,163</u>	<u>(39,122)</u>
-	-	-	-	18,750
-	-	-	(301,025)	(383,038)
-	-	-	(225,000)	(326,682)
<u>-</u>	<u>-</u>	<u>-</u>	<u>(303,617)</u>	<u>(311,743)</u>
-	-	-	(829,642)	(1,002,713)
<u>7,708</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>17,291</u>
296,508	6,228	(628,504)	587,700	387,633
356,083	23,463	628,504	940,950	2,619,282
<u>\$ 652,591</u>	<u>\$ 29,691</u>	<u>\$ -</u>	<u>\$ 1,528,650</u>	<u>\$ 3,006,915</u>
<u>\$ 370,813</u>	<u>\$ 28,281</u>	<u>\$ -</u>	<u>\$ 247,525</u>	<u>\$ 593,268</u>
-	-	-	601,671	818,830
-	900	-	3,626	20,507
-	(12,953)	(33,341)	(32,291)	(25,165)
-	-	-	202	408
-	-	-	1,446	4,329
<u>-</u>	<u>(12,053)</u>	<u>(33,341)</u>	<u>574,654</u>	<u>818,909</u>
<u>\$ 370,813</u>	<u>\$ 16,228</u>	<u>\$ (33,341)</u>	<u>\$ 822,179</u>	<u>\$ 1,412,177</u>

The accompanying notes are an integral part of this statement.

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