CASTLE ROCK WATER

RESOLUTION APPROVING A SERVICE AGREEMENT WITH PROVIDENCE INFRASTRUCTURE CONSULTANTS, INC., FOR THE PLUM CREEK TO RUETER-HESS RESERVOIR PIPELINE INFRASTRUCTURE PROJECT

APRIL 5, 2022



PROJECT BACKGROUND

- 8,000 acre feet (AF) storage in RHR
- Limited options to divert to RHR
 - Small amount from Cherry Creek (~100 AF/year)
 - Majority from Plum Creek (~1,000 AF/year)
 - Identified in master plan
 - Reclaimed and reusable groundwater
 - Withdraw in peak demand periods
 - Deliver through WISE pipeline



PROJECT APPROACH/SCHEDULE

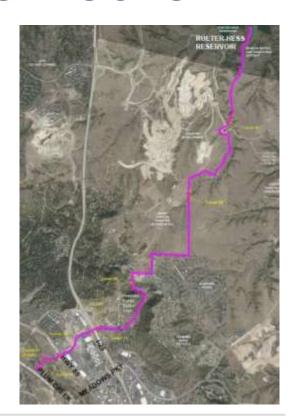
- Request For Proposals (Mar '21) → selected Providence (alignment study and preliminary design)
- Alignment study completed (Sep '21)
 - 4 alignment alternatives identified
 - Eastern alignment selected
- Refined alignment and completed preliminary design (Mar '22)
- Final design May '22 Jul '23
- Construction Sep '23 Dec '24



PROJECT COMPONENTS

Proposed Alignment

- ~7.5 miles of 16-inch diameter pipeline
- Connect to raw water pipeline from Plum Creek Diversion
- Booster pump station east of I-25
- Multiple trenchless construction crossings anticipated (Plum Creek, UPRR, Highway 85, I-25)
- Submerged outlet structure at RHR
- 36 parcels identified for potential right of way acquisition
- ROW acquisition services solicited separately



FINAL DESIGN SCOPE

- Sole Source Contract w/ Providence
 - Appropriate scope and fee
 - Expedite schedule
 - Maintain project continuity
 - Successful track record
- Construction documents for pipeline, pump station, and outlet structure
- Meeting coordination w/ CDOT for crossings
- Survey and utility locate coordination
- Geotechnical engineering for open trench and trenchless crossings
- Permitting assistance (environmental, cultural, municipal, Douglas County)
- Construction bid assistance and contract award recommendation



BUDGET, SCHEDULE, RECOMMENDATIONS

Final Design Budget - \$1,262,595 Contract + \$126,300 Town Managed Contingency

| Project | Account | 2022 Budget | Available Balance | This Authorization |
|----------------------|--------------------|--------------|-------------------|--------------------|
| Newlin Gulch PL & PS | 211-4375-443.78-04 | \$10,000,000 | \$9,859,026 | \$1,388,895 |

Project Budget

| Alignment Study/Preliminary Design | \$220,697 | Encumbered |
|------------------------------------|--------------|------------|
| Preliminary Geotech | \$19,528 | Encumbered |
| Corridor Survey | \$174,175 | Proposed |
| Final Design | \$1,388,895 | Proposed |
| Right of Way Acquisition Services | \$250,000 | Estimated |
| Right of Way Acquisition | \$1,000,000 | Estimated |
| Construction Phase Engineering | \$500,000 | Estimated |
| Construction | \$16,000,000 | Estimated |
| Total Estimated Cost: | \$19,553,295 | |

Final Design schedule

May 2022 through July 2023

Construction schedule

• 2023 through 2024

Recommendations

- Staff
- Water Commission

Questions?

PROPOSED MOTION:

"I move to approve the Resolution 2022-043 as introduced by title."

ALTERNATIVE MOTIONS:

"I move to approve the Resolution as introduced by title, with the following conditions: (list conditions)."

"I move to continue this item to the Town Council meeting on ____date to allow additional time to (list information needed)."