Midway City Council 5 April 2022 Work Meeting

Highlands at Soldier Hollow / Water System





To: Midway City Council

From: Wes Johnson

Date: April 5, 2022 Memorandum

Subject: The Highlands at Soldier Hollow Fire System

Dear Mayor and City Council,

As the Highlands at Solider Hollow development was obtaining development approval from Wasatch County, the Wasatch County Fire District required a public entity to oversee the water system. Midway City met with the developer and indicated we would be interested in teaming with the development to up-size the capacity of their culinary well. The City agreed to take ownership over the water system. In exchange for taking ownership over the water system the developer agreed to contribute \$150,000 towards the Midway City trail funds.

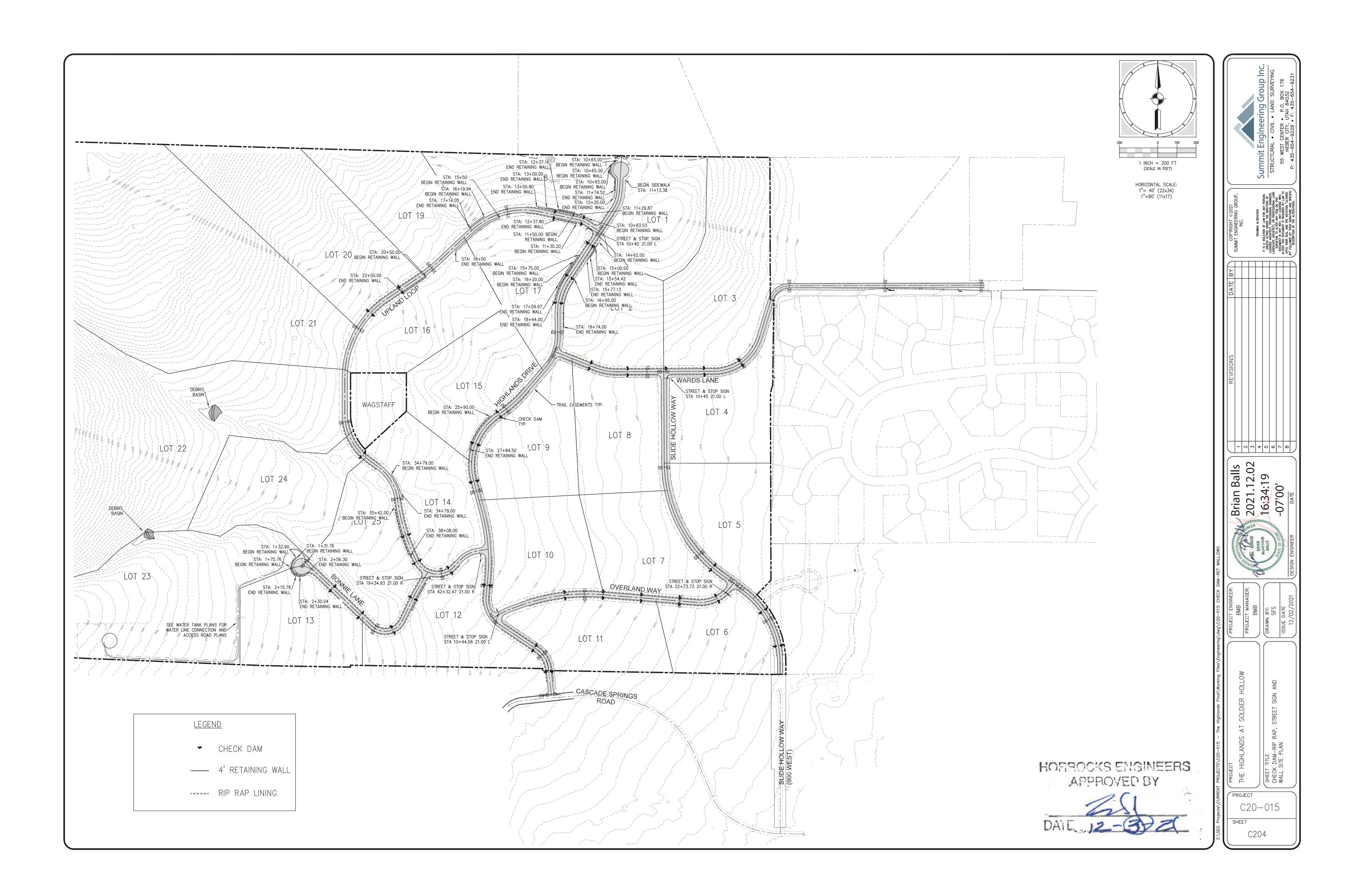
As the well was drilled to approximately 1,000-feet the water quality tests did not meet drinking water standards. To meet the Fire District obligation, the new well will be connected to a 120,000 gallon fire storage tank that will provide water to the fire system and fire hydrants located within the development.

Due to the poor water quality of the well, the fire water system within the development will not be connected to the Midway City water system. To allow the well and tank to be monitored by the City staff, the fire system will be connected to the Midway City SCADA system. This will allow the City Public Works to monitor operation of the well and the capacity of the fire tank.

Attached are the following:

- A Vicinity Map showing the location of the development
- A Site Map showing the lot layout of the development
- Cost Estimate to operate the Fire System





The Highlands at Soldier Cost to operate the water system:

| Culinary Water System Labor Cost @ 5 hr per week | | Cost Per Year | Fire Water System Labor Cost @ 5 hr per week | | Cost Per Year |
|---|----------------|----------------------------|--|------------------|------------------|
| | | | | | |
| Wages, benefits, vehi | cle, tools, et | с | Wages, benefits, vehi | icle, tools, etc | C |
| | | | | | Per Year |
| Hours per Week: | 5 | | Hours per Week: | 5 | |
| Weeks per Year | 50 | | Weeks per Year | 50 | |
| Cost Per Year: | | \$16,250 | Cost Per Year: | | \$16,250 |
| Maintenance Costs: | | | Maintenance Costs: | | |
| 15 Year Costs | _ | | 15 Year Costs | _ | |
| Replace the Pump: | \$40,000 | | Replace the Pump: | \$15,000 | |
| Upgrade the PRV's | \$10,000 | | Upgrade the PRV's | \$0 | |
| Total Cost: | \$50,000 | \$3,333 | Total Cost: | \$15,000 | \$1,000 |
| Total Average Cost /Year: | | \$19,583 | Total Average Cost /Year: | | \$17,250 |
| Over 15 Years: | | \$293,750 | Over 15 Years: | | \$258,750 |
| Labor Cost @ 3 hr per week | | Labor Cost @ 1 hr per week | | | |
| Hourly Rate: | \$65.00 | • | Hourly Rate: | \$65.00 | • |
| Wages, benefits, vehicle, tools, etc | | | Wages, benefits, vehicle, tools, etc | | |
| | | Per Year | | | Per Year |
| Hours per Week: | 3 | | Hours per Week: | 1 | |
| Weeks per Year | 50 | | Weeks per Year | 50 | |
| Cost Per Year: | | \$9,750 | Cost Per Year: | | \$3,250 |
| Maintenance Costs: | _ | | Maintenance Costs: | _ | |
| 15 Year Costs | | | 15 Year Costs | | |
| Replace the Pump: | \$40,000 | | Replace the Pump: | \$10,000 | |
| Upgrade the PRV's | \$10,000 | | Upgrade the PRV's | \$0 | ì |
| Total Cost: | \$50,000 | \$3,333 | Total Cost: | \$10,000 | \$667 |
| Total Average Cost /Year: | | \$13,083 | Total Average Cost /Year: | | \$3,917 |
| Over 15 Years: | | \$196,250 | Over 15 Years: \$150,000 Trail Donation | | \$58,750 |
| | | | | | |
| | | | Break Even Point in Years | | 38 |

Hourly Pay Rate: \$25.00 Benefit Increase 2.5 Rate With Benefits 62.5