



State of Utah

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF DRINKING WATER

Tim Davis.
Director

April 16, 2021

Carrie Zenger
Powder Mountain Water and Sewer Improvement District
298 24th Street, Suite 150
Ogden, Utah 84401

Subject: **Conditional Plan Approval**, Jacobs Ladder Development (DS001);
Powder Mountain WSID, System #29028, File #12248

Dear Carrie Zenger:

The Division of Drinking Water (the Division) received the plans and specifications for the Jacobs Ladder Development from you on April 6, 2021. This project has met the conditions for receiving a conditional plan approval.

Our understanding of the project is the extension of the distribution line through the Jacobs Ladder Development, which is part of larger system improvements detailed as Top of Mountain Pressurized Water system improvements (See Division File# 12560). Top of Mountain Pressurized Water system improvements primarily consist of the installation of a new pump station (PF005) at the existing Hidden Lake 415k Tank (ST004) and Hidden Lake Storage (ST001) to provide adequate pressurized water to both the Jacobs Ladder Development and a proposed Summit Development yet to be designed. Powder Mountain WSID is requesting Division Plan Approval to begin construction on this segment to better facilitate the limited construction schedule due to the site's elevation and overall multiple project scheduling. The Jacobs Ladder Development portion of the project consists of the following details:

- Installation of 697 linear feet of 10-inch diameter PVC C900 (D14) water line to serve 11 lots.
- Installation of two fire hydrants, five manholes with meters, an air release assemble at the top of the system (until ready for connection) and associated valves.
- All distribution lines will be buried nine feet below grade to protect from freezing.
- Jacob's Ladder Development will be connected into the distribution network (DS001) at Top of Mountain Area water line from the Hidden Lake Tank (ST004). Top of Mountain Area Improvements plans will include installing a Pressure Reducing Valve (PRV) at the low end of Jacob's Ladder Development at the time of connection.

We have completed our review of the plans and specifications, stamped and signed by **Joseph Stuart, P.E., dated March 20, 2021**, and find they basically comply with the applicable portions of Utah's Administrative Rules for Public Drinking Water Systems in R309. On this basis, we hereby **approve the proposed plans to construct Jacobs Ladder Development with the following conditions:**

Carrie Zenger
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1. Jacob's Ladder Development will be connected into the distribution network (DS001) during the Top of Mountain Area water improvements (see File# 12560) at the water main from Hidden Lake Tank (ST004).
 - a. At the time of connection, Top of Mountain Area water improvements (see File# 12560) must include:
 - i. the addition of the Pressure Reducing Valve (PRV) at the low end of Jacob's Ladder Development (shown as proposed on the current plans) or
 - ii. the District must apply for and receive Temporary Home Booster exceptions until the Booster station and PRV can be completed prior to connection.

You must fulfill and comply with all of the conditions of approval or this approval is invalid.

This conditional approval pertains to construction only. **An Operating Permit must be obtained from the Director before Jacobs Ladder Development may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

Approvals or permits from the local authority or the county may be necessary before beginning construction of this project. As the project proceeds, notice of any changes in the approved design, as well as any change affecting the quantity or quality of the delivered water, must be submitted to the Division. We may also conduct interim and final inspections of this project. Please notify us when actual construction begins so that these inspections can be scheduled.

This approval must be renewed if construction has not begun or if substantial equipment has not been ordered within one year of the date of this letter.

If you have any questions regarding this conditional plan approval, please contact Cheryl Parker, of this office, at (385) 271-7039, or me at (385) 515-1464.

Sincerely,



Michael Newberry, P.E.
Engineering Manager

CP/mrn/mdb

Enclosures – Operating Permit Checklist

cc: Michelle Cooke, Weber-Morgan County Health Dept., mcooke@co.weber.ut.us
Steve Burton, Weber-Morgan County, sburton@co.weber.ut.us
Carrie Zenger, Powder Mountain WSID, czenger@pmwsid.org
Roy Watts, Powder Mountain WSID, rwatts@pmwsid.org
Brad Gilson, Gilson Engineering, Brad@gilsonengineering.com
Jim Milligan, Gilson Engineering, JimM@gilsonengineering.com
Cheryl Parker, Division of Drinking Water, chparker@utah.gov

DDW-2021-010911

Utah Division of Drinking Water — Checklist for Issuing Operating Permits

Water System Name: _____ System Number: _____

Project Description: _____ File Number: _____

Items 1 through 8 below must be submitted to the Division and found to be acceptable prior to operating permit issuance (unless a water line project meets the requirements of R309-500-7 and is not required to obtain an Operating Permit).

Distribution lines (not including in-line booster pump stations) requiring Plan Approval may be placed into service prior to submitting all of the following items and receipt of Operating Permit if the water system has received items 1 and 4 below.

- 1. Certification of Rule Conformance by a professional engineer (P.E.) that all conditions of Plan Approval were accomplished, and if applicable, changes made during construction were in conformance with rules R309-500 through 550
- 2. As-built or record drawings incorporating all changes to approved plans and specifications (unless no changes were made to the previously approved plans during construction)
- 3. Confirmation that as-built or record drawings have been received by the water system
- 4. Satisfactory bacteriological samples as evidence of proper disinfection and flushing in accordance with the appropriate ANSI/AWWA standards:
 - ANSI/AWWA C651-14 AWWA Standard for Disinfecting Water Mains
Two consecutive sample sets at least 16 hours apart, none positive (e.g., every 1,200 feet, end-of-line, each branch)
 - ANSI/AWWA C652-11 AWWA Standard for Disinfection of Water-Storage Facilities
One or more samples, none positive
 - ANSI/AWWA C653-13 AWWA Standard for Disinfection of Water Treatment Plants
Two consecutive samples per unit, none positive, no less than 30 minutes apart
 - ANSI/AWWA C654-13 AWWA Standard for Disinfection of Wells
Two consecutive samples, none positive, no less than 30 minutes apart
- 5. Water quality data, where appropriate [*For example, include raw and finished water data that demonstrate satisfactory performance of the treatment facility; sample should be taken from a storage tank for residual volatile organic compounds after tank interior re-coating; etc.*]
- 6. If applicable, all other documentation that may have been required during the plan review process
- 7. If applicable, confirmation that the water system owner has received the O&M manual for the new facility
- 8. If applicable, location data of new storage tank, treatment facility, or source