

7 February 2020

Sterling Dailey
Jasper Mountain Center
37875 Jasper Lowell Road
Jasper, Oregon 97438

FILE COPY

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Springfield, OR 97477
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<http://healthoregon.org/dwp>

RE: Storage Tanks and Waterlines (PR 2020-13)
Jasper Mountain Center (PWS OR4195069)
Conditional Approval

Dear Mr. Dailey:

Thank you for submitting materials via Poage Engineering & Surveying, Inc. for plan review of new storage tanks and waterlines at Jasper Mountain Center located in Jasper, Oregon. Oregon Health Authority, Drinking Water Services (DWS) received drawing sheets 1 and 2 along with a plan review fee of \$825 received 28 January 2020. At this time DWS grants the project **conditional approval**.

The project involves five parallel 2,000 gallon concrete storage tanks from Willamette Greystone, along with the existing 1,500 gallon tank, intended to provide both potable water and sufficient volume for fire flows. The well supply is connected to a 1.5 inch line that is manifolded to all six tanks and fills them simultaneously. The inlet on the 1,500 gallon tank is near the tank bottom, 2 inches below its outlet to the distribution system. The inlets on the five 2,000 gallon tanks are bifurcated with one branch low near the tank floor and the other 43 inches off the tank floor. Both bifurcations have check valves, oriented in opposite directions so that inlet water comes in near the floor of the tank and outlet water that is 43 or more inches above the floor exits back to the 1,500 gallon tank (assuring that distribution supply volume stays topped off).

These respective flows will exit the storage tanks through separate pipes, fire flow through a 4 inch line manifolded only to the five 2,000 gallon tanks, and potable flow to distribution through a 2 inch line connected only to the sole 1,500 gallon tank.

New waterlines from the tanks to the distribution system are also planned. This includes new waterlines in the vicinity of the buildings. The existing waterlines from the existing 1,500 gallon tank to distribution will be abandoned in place or converted to other use.

The plans are approved with the following conditions:

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1. A testable double-check valve is installed on the fire line to prevent water in the fire system from returning to the interconnected tanks on the hill.
2. Disinfection of the waterline must be completed according to AWWA C651. Disinfection of the reservoir prior to use must be completed according to AWWA Standard C652.
3. The outlet end of the drain/overflow must discharge with an airgap to a watercourse or storm drain capable of accommodating the flow.
4. Any sewer and water line crossings must conform to OAR 333-061-0050(9).
5. Non-conductive water lines must be provided with a solid core tracer wire. The distance between tracer wire lead access locations must not be more than 1,000 feet.

Until DWS receives verification that the conditions have been met and final approval has been issued, the project is not approved for use. An engineer must inspect, and be prepared to sign off, before burying new waterline lines. Upon completion of the project, the engineer must verify in writing that construction was completed according to the submitted plans. If substantial changes are made, a set of as built drawings must be submitted. Documentation demonstrating how the above conditions were met should reference Plan Review #2020-13 and can be emailed to me at james.r.macpherson@dhsosha.state.or.us or mailed to:

Attn: Jay MacPherson
OHA-Oregon Drinking Water Services
444 A Street
Springfield OR 97477

If you have questions, please contact me at (541) 726-2587 extension 57 or via email at.

Sincerely,



James "Jay" MacPherson, Ph.D., P.E.
Region 2 Plan Review Coordinator
OHA Drinking Water Services

ec: Plan Review, DWS Portland
Amy Bleekman, Lane County
Don Mogstad, Poage Engineering & Surveying