[illegible] A. T.

The Reservoir to be 12 feet deep, the bottom a plane 8'x12'. The sides of the reservoir sloping upwards from the bottom with a slope of 1½' Horizontal distance to 1' rise, so that the concrete, with which the walls are to be lined, will lie on the sides, without the aid of masonry of any kind. This slope will permit a person to walk down to the bottom, for the purpose of cleaning or repairing.

The sides and bottom to be covered with four (4) inches of concrete, first putting on a coat of cement to fill all crevices, and uneven places, and a coat of cement should be put on over the concrete.

Two tunnels are necessary = each fifteen (15) yards long, and three (3) feet square in cross sections, with rounded corners, and with a fall of three (3) feet.

One tunnel towards the parade ground for the distributing pipe = The other tunnel through the opposite side of the reservoir for cleaning it, so that the sediment will not flow towards the Post.

The hill upon which the reservoir is to be placed, is composed of granite, and is considered strong enough with the slope given to the inside of the reservoir, to do away with the

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necessity of a wall:

The capacity will be 92.318 gallons.

Cost of excavation for reservoir, 490 cubic yards @ $2.00	$980.00
Cost of excavation for two tunnels 30 cubic yards @ $2.00	60.00
Labor of making and laying on 280 sq. yards of concrete 4 inches thick @ .60c per square yard.	168.00
Labor of plastering 2 coats of cement 280 sq. yds. @ .50c per sq. yd. for both coats	140.00
36 Barrels Hydraulic Cement @ $14.00 per bbl.	504.00
	1852.00

Fort Huachuca, U.T.
February 16. 1884

[signature]
Asst. Q.Master, U.S.A.

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Feb 16/84

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599 Specifications

For Reservoir

of one basin.

at Fort Huachuca.

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