Smith, Savannah

From: Shawkat Ali, Ph.D., P.E. <sali@andreyevengineering.com>
Sent: Monday, January 13, 2025 11:49 AM
To: Smith, Savannah
Cc: Garri, Alan; Ray Jones, P.E.
Subject: RE: Ocala WTP-2 Call
Attachments: OCALA WTP_updated tanks.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: External

Dear Savannah,

The boring locations for the proposed new tanks are shown in the attached figure. The borings cover the proposed tank locations as before.

We understand the applied bearing pressure will remain the same as before at 2,300 psf. With the changed dimensions of the tanks, the calculated angular distortions of the tank bottoms are below d/l of 1/300 and thus acceptable.

We however would like to re-emphasize the need for following the details of the foundation recommendations in the geotechnical report.

Thanks.

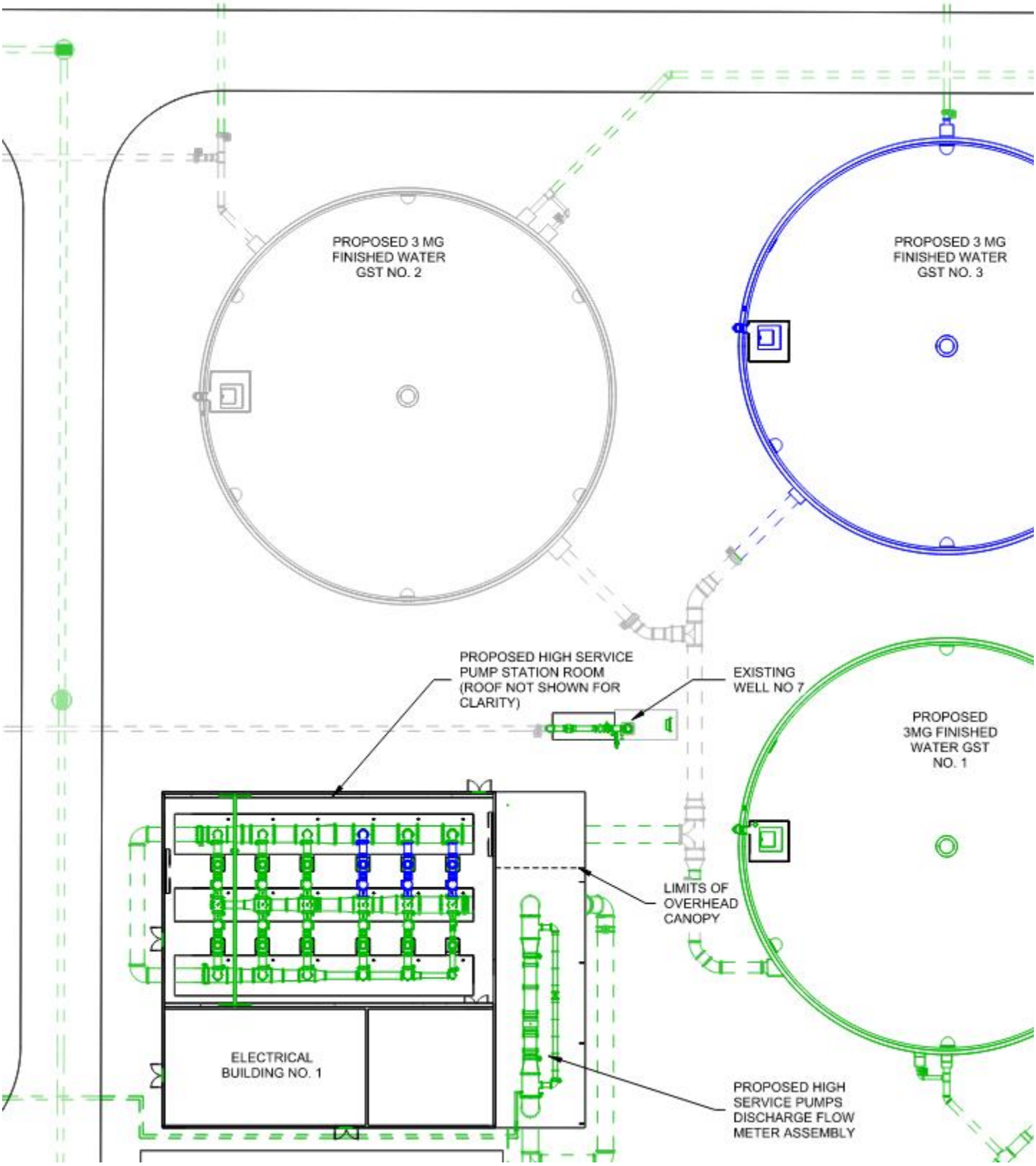
Shawkat

Shawkat Ali, Ph. D., P.E.
Andreyev Engineering, Inc.

From: Smith, Savannah <Savannah.Smith@kimley-horn.com>
Sent: Monday, January 13, 2025 9:25 AM
To: Shawkat Ali, Ph.D., P.E. <sali@andreyevengineering.com>
Cc: Garri, Alan <Alan.Garri@kimley-horn.com>; Ray Jones, P.E. <rjones@andreyevengineering.com>
Subject: RE: Ocala WTP-2 Call

Dr. Ali,

We have had to make some changes to the Ocala WTP-2 design. We previously had (1) 4.0 MG and (2) 2.0 MG Finished Water GSTs. We have updated this configuration to be (3) 3.0 MG Finished Water GSTs. Please see the screenshot below for reference. The tanks will be in approximately the same location as the previous configuration. The new tanks will have a 120ft diameter with a liquid depth of 35ft 6in. The finished floor elevation for each tank will remain at 124ft and the bearing capacity will remain at 2,300 psf. Can you please confirm if the change in diameter will affect your recommended subsurface improvements for these tanks?



Kindest regards,

Savannah Smith, P.E. | Water/Wastewater Engineering
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Direct: 352 438 3022 **|** Mobile: 407 509 0544 **|** www.kimley-horn.com