

January 10, 2022

View-Caps WSC
7017 Hwy 277 South
Abilene, TX 79606
Attn: Stephanie Honey, Office Manager

Re: Meter Request/Changes

Dear Stephanie:

The following meter request(s) can be conditionally approved for addition to the View-Caps WSC distribution system as noted:

- 131 Acres +/-, Antilley Road, Abilene, Texas, Proposed Residential Subdivision, HTB Farms (Debbie Clark).

Applicant is proposing to develop approximately 130 acres of land located on Antilley Road (just to the west of Peppergrass Lane). Based on the approximate acreage for development and a minimum lot size of 0.50 acres, the development could potentially hold as many as 175 to 200 lots.

The subject property currently has direct access to the 6-inch water distribution main running east/west along Antilley Road. Based on the hydraulic computer modeling, the existing line has an operating pressure of approximately 65 psi. Per TCEQ rules and requirements for Public Drinking Water Systems, a 6-inch distribution line can serve up to 250 connections. View Caps WSC water service records indicate there are 152 existing connections currently being served by the 6-inch line running along Antilley, leaving an available service capacity of 98 connections. While hydraulic modeling suggests that the existing 6-inch line can accommodate an additional 98 service connections, other system limitations will further limit the number of available connections. These limitations include the following items:

- The subject property falls within the systems main (yellow) pressure plane. As of the date of this letter, the yellow pressure plane is capacity limited due to the maximum allowable contracted draw rate thru master meter number 8 (located on Highway 277). Presently, the yellow pressure plane can only accept approximately 30 additional service connections.
- Installing more than 25 meters at the subject property appears to negatively impact system pressures along County Road 256, Ohlhausen Road and County Road 257. At 30 additional connections, pressures appear to decrease between 1 and 5 psi at various locations along these three roads. When increased to 150-200 lots, system pressures along these roads appears to decrease by as much as 22 psi, leaving many meter connections with service pressures below 35 psi, which is the minimum allowable service pressure per TCEQ Chapter 290 rules and regulations.

In order for the View-Caps WSC to supply between 26 and 98 lots on the subject property, the following system improvements will be needed:



Ms. Stephanie Honey
January 10, 2022
Page 2

- View-Caps WSC will need to negotiate an amendment to its current water purchase agreement with the City of Abilene to increase the maximum allowable daily take rate thru master meter number 8. While this process has been initiated and is currently underway, it will likely be late spring before any such contract amendment is finalized.
- View-Caps will need complete system capacity improvements including construction of a new elevated storage tank near FM 1235, the construction of the a new high service pump station of Buffalo Gap Road, Install piping improvements along FM 707 and complete other miscellaneous improvements to bolster the overall capacity of the distribution system. View-Caps WSC is currently in the planning stages for projects to determine the actual scope and costs of the projects. New subdivision developments located within the yellow pressure plane will likely be required to financially participate in the completion of these projects.

For the system to be able to serve between 150 and 200 lots, all improvements listed above will be required to be complete and in place. In addition to those projects, it will also be necessary to replace approximately 5,200 linear feet of the existing 6-inch line on Antilley Road with an 8-inch line. Estimate cost for this line replacement is between \$275,000 and \$300,000 dollars based on the current going rates for 8" pipe installation.

In summary, the View Caps system can support up to 25 additional lots on the subject property without adverse affect to the remainder of the system. More than 25 lots will potentially require substantial system capacity improvements.

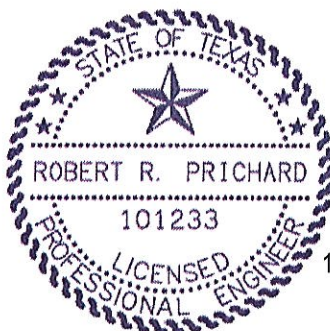
I appreciate the opportunity to be of service to the View Caps WSC. Please do not hesitate to call if you have any questions.

Sincerely,

Enprotec/Hibbs & Todd, Inc.

BJ Prichard, P.E.

BJP/jd



1/10/2022

c: Project File 218128