



HAYES ENGINEERING, INC.

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August 3, 2024

Mr. Robert Mathis, Manager
Post Oak SUD
P.O. Box 545
Hubbard, TX 76648

RE: Elegment LLC, HCR 3352 (3355), Non Standard Service Investigation (2 meters)

Dear Mr. Mathis:

I have reviewed the non-standard service request for Elegment LLC located 1,700 feet south of the intersection of CR 3352 and CR 3373 approximately 4 miles southwest of the City of Hubbard in Hill County, Texas. The area is currently served from the SH 31 master meter located on SH 31 just west of New Hope Road. Post Oak SUD has an existing 6" water main from the master meter along S.H. 31 to FM 936 and then along FM 936 to CR 3373. The main then reduces to a 2" main west along CR3373 to CR3352 then turns south on CR 3352 and terminates approximately 3,200 feet south of CR 3373. The area is also looped to the west with a 2" along CR 3373 continuing west. There are approximately 14 meters served thru the existing 2" main looped thru HCR 3373.

The SH 31 W pressure plane operates at a static hydraulic grade line of 805 feet msl. The subject property has an elevation of approximately 600 to 620 feet msl. Therefore, the subject property would have static pressures in the 84-psi range.

The Texas Commission on Environmental Quality (TCEQ) regulates public water systems and the maximum number of connections on a 2" main is 10 connections. The existing 2" water main since it is looped in this area can be fed from both directions and could supply a maximum of 20 connections. The existing distribution system has adequate capacity and can support the additional two connections.

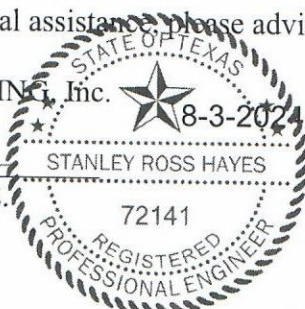
The existing 2" water main on the east side of CR3352(3355) terminates south of the properties requested to be served. The minimum line size allowed by Post Oak SUD is a 3" main. A 3" line extension of approximately 1,500 feet can be extended from CR 3352 to the requested meter No2 location provided a water main easement is dedicated to Post Oak SUD. An opinion of cost for the line extension is attached.

If I can be of additional assistance, please advise.

Sincerely,

HAYES ENGINEERING, Inc.

Stanley R. Hayes, P.E.
Principal



Post Oak SUD
Water System Improvements Service to Element HCR 3352

ESTIMATE OF PROBABLE COST

DESCRIPTION	QTY	U/M	UNIT COST	AMOUNT
<u>HCR 3352</u>				
1 . Tie into ex. water main	1	EA	\$1,500	\$ 1,500.00
2 . Furnish & install 3" water main	1500	LF	\$20	\$ 30,000.00
3 . Bore Drives	20	LF	\$40	\$ 800.00
4 . Furnish & install 3" Gate Valve w/ Adj. Valve Box	2	EA	\$1,500	\$ 3,000.00
5 . Furnish & install Flush Valve	1	EA	\$2,000	\$ 2,000.00
6 . Testing and Sterilization	1	LS	\$500	\$ 500.00
7 . SWPP and Erosion Control	1	LS	\$500	\$ 500.00
TOTAL ESTIMATE OF PROBABLE CONSTRUCTION COST				\$ 38,300.00
Engineering				\$ 4,000.00
TOTAL EST OF PROBABLE COST				<u>\$ 42,300.00</u>

Note: Estimate does not include services.

