



REPORT TO: CITY COUNCIL

MEETING DATE:

Agenda Item:	6e. CC-21-32
Prior Council Action/Related Items: (Hyperlinks Or PDF)	Revision of Design and Construction Standards
Background / Issue:	<p>Members of City Staff, development representatives and outside engineering representatives have been working to revise current design and construction standards. The committee is seeking guidance from the City Council on the following items.</p> <ul style="list-style-type: none"> • There is a proposal for the City to provide fire hydrants and developer to reimburse the City. • Allow contractors to make water service connections. • Require a deposit at the time of application for water meters over 1-inch, bill final costs based on the then current rate schedule, and require payment before issuing a Certificate of Occupancy. • Allow exceptions to the current City Standards requiring a minimum operating pressure of 40 psi in the water distribution systems at all times under all conditions except fire flows and flushing operations. • Regarding water & waste water computer modeling, the request is for City Engineering to maintain the models and determine impacts to the systems of proposed developments and mitigation of adverse impacts. The developer would reimburse the City for the cost of doing the analysis.

- With the expectation of expanded rural development, a suggestion has been made that the City require approved water distribution plans, which will support fire flow if the system was improved to provide the necessary flow.

Proposal/Solution:

- Proposal for City to provide fire hydrants:
 - Current practice is for developer's contractor to furnish the fire hydrants.
 - Because WU purchases in bulk, our costs for fire hydrants are sometimes lower.
 - WU furnishing the fire hydrants with developers reimbursing the City can potentially lower cost of development and housing.
 - Helps to keep uniform hydrants and thus higher reliable maintenance of the system.
 - The City provided this service in the past and discontinued it for several reasons.
 - City Finance does not support this proposal at this time.
- Water Service Connections;
 - Current practice is for WU crews to make connections when the connection was not included in the construction of the development water infrastructure.
 - Availability of WU crews is sometimes limited due to other projects.
 - Allowing approved contractors to make service connections has the potential to reduce time to complete development work.
 - Concern is having an outside agency working on existing potable lines in service for which SUA is responsible.
 - Possibly put a limit on the size of connections to be installed by outside contractors.
- Provide procedure for accepting a deposit for water meters over 1" in size.
 - Current practice is for the applicant to pay an administrative fee for processing the

application. Once a meter is approved then the applicant pays certain fees. For larger meters final fees are determined based upon the time and materials to install the water meter. Those costs are billed later.

- The proposal is to require a \$1,000 deposit. After completion of the work and final costs determined, City would then invoice for any additional costs or return unused funds. Before issuing a Certificate of Occupancy any additional costs would have to be paid.
- Current City requirement is to maintain a minimum water pressure of 40 psi in the water distribution system at all times and for any system condition other than fire flow or flushing of the system.
 - There are instances when this requirement cannot be met and requires individual homes to have booster pumps
 - In some instances the areas are small and the pressure deficiency is 5 psi or less for a very limited scenario and short time
 - Suggestion is to allow the City Engineering staff to recommend to the City Manager waiver of the requirement in specialized situations.
 - The rural system is not designed to maintain 40 psi.
- The existing water distribution and waste water collection computer models are maintained by City Engineering staff. Current and accurate models are necessary to ensure the existing system can sustain proposed developments and or determine what improvements are needed to support a proposed development.
 - Present policy is for City Engineering staff to review the models and verify the developer's engineer's proposal.
 - The suggestion is for the developer's engineer to provide the data to the City Engineering staff and staff do the modeling.
 - The City would be reimbursed by the developer for the staff time.

- This would be a more efficient use of both the developer's engineer and City Staff time.
- Should fire flows be considered in the design of the rural water system
 - The question is should we begin looking at providing fire flows for the rural systems
 - Possibly size trunk lines for future flows
 - Provide fire hydrants at strategic locations
 - Very real concerns about over size of lines and the ability to maintain water quality standards
 - May not be feasible in certain areas

Financial Impact/Funding Source(s):	No impact to current budgets
Recommended Action/Motion:	No action is being requested.
Prepared By:	Monty Karns, Director of City Engineering
Reviewed By:	Paula Dennison, Assistant City Manager
Submitted By:	Norman McNickle, City Manager