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## PUBLIC WORKS ENGINEERING DIVISION

**Date:** Wednesday, July 20, 2016

**To:**

ENGINEERING SOLUTIONS

Matt Schlicht, P.E.

Email: MSCHLICHT@ES-KC.COM

Fax #: (816) 623-9849

**From:** Gene Williams, P.E.

Senior Staff Engineer

**Application Number:** PL2016107

**Application Type:** Engineering Plan Review

**Application Name:** Manor at Stoney Creek 2nd Plat Water Line

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The Public Works Department received plans for this project on May 23, 2016. We have completed our review and offer the following comments:

### Engineering Review

1. Sheet C.501: The water line layer is very faint, and not indicative of proposed improvements. Please revise the water line layer to be a bold line rather than a faint, almost invisible line.
2. Sheet C.502: We are showing a temporary fire hydrant at the west end of the existing SW Merryman Dr. The plans say "connect to existing water", with no other description of the work to be performed. Is the fire hydrant going to be relocated in an offset fashion? It would appear this is required since there are no other fire hydrants within 500 feet.
3. Sheet C.502: The plan view makes numerous references to "End Construction". Is this a typographical error? Please correct.
5. Sheet C.502: A fire hydrant is called-out at the west end of SW Merryman Dr., but the plans do not show a temporary fire hydrant (i.e., installed in-line rather than offset). Please revise to an in-line temporary fire hydrant.
6. Sheet C.503: The 12" butterfly valve is shown as being installed north. Should this be west? Also, the 8" gate valve is shown as being installed west. Should this be north?
7. Sheet C.503: The note concerning night work being required should be revised to state that the maximum time that the line is shut-down is 8 hours, and a minimum of 48 hours notice to the inspector is

required prior to making the connection.

8. Sheet C.503: The fire hydrant at the north end of SW Amethyst Dr. should be specified as an in-line, temporary fire hydrant rather than offset.
9. Sheet C.503: A fire hydrant is shown on the profile view at station 2+92 on Water Line 2, but it does not show up on the plan view. Please be aware that this fire hydrant is required since the 500 foot rule would be exceeded without it.
10. Sheet C.503: What does the note "End Construction" on the profile view at station 2+92 mean? It does not appear this is the end of construction.

In order to calculate the Public Works' Engineering Plan Review and Inspection Fee, a sealed Engineer's Opinion of Probable Construction Costs shall accompany your final submittal copies. The itemized estimate (material and installation) shall be sufficiently broken down and shall include the following items, as applicable.

- Public infrastructure, both onsite and offsite.
- Private street construction, including parking lots and driveways.
- Sidewalks located within the right-of-way.
- ADA accessible ramps.
- Sanitary sewer manholes and piping between manholes, including private mains.
- Connection of the building sanitary sewer stub to the public main.
- Waterlines larger than 2 inches in diameter, valves, hydrants, and backflow preventer with vault, if outside the building.
- Stormwater piping greater than 6 inches in diameter, structures, and detention / retention facilities - public or private.
- Water quality features installed to meet the 40-hour extended duration detention requirements.
- Grading for detention / retention ponds.
- Grading to establish proper site drainage.
- Utility infrastructure adjustments to finished grade (i.e. manhole lids, water valves, etc.).
- Erosion and sediment control devices required for construction.
- Re-vegetation and other post-construction erosion and sediment control activities.

### **Electronic Plans for Re-submittal**

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Beginning Monday, May 23, 2016, all Planning application and development engineering plan re-submittals shall include an electronic copy of the documents as well as the required number of paper copies. Electronic copies will not be required for initial application submittals at this time as the plans are subject to change.

Electronic copies shall be provided on CD in the following formats

- Plats – All plats shall be provided in Tagged Image Format File (TIFF) group 4 compression.
- Engineered Civil Plans – All engineered civil plans shall be provided in Tagged Image Format File (TIFF) group 4 compression. All sheets shall be individually saved and titled with the sheet title.

- Architectural and other plan drawings – Architectural and other plan drawings, such as site electrical and landscaping, shall be provided in Portable Document Format (PDF).
- Studies – Studies, such as storm and traffic, shall be provided in Portable Document Format (PDF).
- It is requested that each plan sheet be a maximum of 2MB.

Please contact Staff with any questions or concerns you may have.

If you have any questions or comments, please contact me, Gene Williams either at (816) 969-1812 or e-mail to [Gene.Williams@cityofls.net](mailto:Gene.Williams@cityofls.net).

Sincerely,

*Original Signed*

Gene Williams, P.E.  
Senior Staff Engineer

cc: Development Engineering Project File