

**Date:** Thursday, December 08, 2022

**To:** Doug Ubben  
Phelps Engineering, 1270 N. Winchester St., Suite #5878  
Olathe, KS 66061

**From:** Sue Pyles, P.E.  
Senior Staff Engineer

**Application Number:** PL2022324

**Application Type:** Engineering Plan Review

**Application Name:** Orchard Woods - Public Water

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The Development Services Department received plans for this project on September 07, 2022. We have completed our review and offer the following comments listed below.

- See comments below to determine the required revisions and resubmit to the Development Services Department public portal located at [devservices.cityofls.net](https://devservices.cityofls.net). Digital documents shall follow the electronic plan submittal guides as stated below.
- Revised plans will be reviewed within five (5) business days of the date received.

#### **Engineering Review - Corrections**

1. General:
  - Submit an Engineer's Estimate of Probable Construction Costs.
  - Submit a copy of the MDNR Permit.
  - Show location of all oil/gas wells, or indicate none are present, and cite the source.
2. Sheet 1: Benchmark information is incomplete.
3. Sheet 4:
  - The sanitary sewer stub alignment for the Lots 16 & 17 stubs don't match the sanitary plans. Please revise.
  - Please indicate that Line 2 connects to the existing water line and that removal of the existing blowoff assembly will be required unless the line has been replaced. We need to make sure it will be correct if the offsite water line is NOT replaced at the same time.
4. Sheet 6: Include the FH standard details.

#### **Traffic Review - No Comments**

In order to calculate the 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 Resubmittal**

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All Planning application and development engineering plan resubmittals shall include an electronic copy of the documents as well as the required number of paper copies.

Electronic copies shall be provided in the following formats

- Plats – All plats shall be provided in multi-page Portable Document Format (PDF).
- Engineered Civil Plans – All engineered civil plans shall be provided in multi-page Portable Document Format (PDF).
- Studies – Studies, such as stormwater and traffic, shall be provided in Portable Document Format (PDF).

Please contact me if you have any questions or comments.

Sincerely,

Sue Pyles, P.E.  
Senior Staff Engineer  
(816) 969-1245  
Sue.Pyles@cityofls.net

cc: Development Engineering Project File