

DEVELOPMENT SERVICES

Date: Thursday, May 07, 2020

To: Sam Malinowsky
5507 High Meadow Circle
Manhattan, KS 66503

To: SM ENGINEERING
919 W STEWART RD
COLUMBIA, MO 65203

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

Application Number: PL2020121

Application Type: Engineering Plan Review

Application Name: STREETS OF WEST PRYOR - SOUTH DETENTION BASIN ADJUSTMENTS

The Development Services Department received plans for this project on April 23, 2020. We have completed our review and offer the following comments listed below.

- Resubmit one (1) comment response letter, and one (1) digital copy following 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. The Stormwater Management Plan lacks information. Clearly indicate the proposed permanent pool, emergency overflow spillway, and top of dam elevations to verify freeboard requirements. If required release rates can't be met, then a design modification waiver will be required. The study also fails to include information about the existing pipe discharging into the basin. It appears that the basin will have a significant impact on the existing storm sewer, which must be analyzed.
2. The addition of a weir wall to increase the emergency overflow spillway elevation is not acceptable. The spillway itself will need to be raised.
3. The plan set lacks information such as the 100-year WSE and the pipe inflow elevation. It is difficult to say what all will need added to the plan set until the Stormwater Management Plan is more complete.

Traffic Review - Not Required

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

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
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cc: Development Engineering Project File