

Date: Thursday, June 27, 2019

To:

ENGINEERING SOLUTIONS
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From: Gene Williams, P.E.
Senior Staff Engineer

Application Number: PL2019096

Application Type: Engineering Plan Review

Application Name: Reece Nichols - Public Improvements - Street, Water Line, Sanitary, and Stormwater

The Development Services Department received plans for this project on June 21, 2019. We have completed our review and offer the following comments listed below.

- Resubmit three (3) full size sets of plans (no larger than 24"x36") folded to 8-½"x11", 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

1. During our meeting on June 17, 2019, we discussed the necessity of deflecting the pipe to avoid the existing decorative light pole and base. No such deflection was shown on the plans, only a note was provided. An estimate of the deflection must be shown to avoid the light pole and base, with consideration that the 15 inch storm line is not an infinitely thin line as indicated on the plans. The line must be straight, with no bends allowed unless a manhole, junction box, or other suitable structure is installed. The estimated deflection will affect the placement of the new manhole within the street, and will also affect the water line relocation plans shown elsewhere in the plan set.
2. Sheet C.302: The note for the public storm line within the street should be specified as CPP pipe. It is also acceptable to use the ADA designation for this pipe, but CPP is specified in the Design and Construction Manual, and should be referenced in the plans.
3. Sheet C.303: The location of the water line relocation must be changed based on the previous comment concerning the estimated deflection of the storm line. Please consider the fact that: 1) the pipe is not an infinitely thin line, and 2) the light pole and base must be cleared, with a minimum clearance where the light pole base is affected structurally.

4. Sheet C.306: The traffic control plan has not changed since the last submittal, with the exception of the note stating that a 4 foot trench shall be installed to facilitate construction of the storm sewer. While this is acceptable, and we agree that a separate traffic control plan is required at the time that full panel removal and replacement takes place, the traffic control plan must reflect what is to occur during the first phase of construction. In other words, the 4 foot trench should be shown, with traffic control shown to manage this portion of the project. The conflicting note stating that "The Road Shall be Closed and Traffic Only be Allowed Between 9 am and 4 pm" has been discussed in the last two (2) comment letters, but still appears in this plan set. As discussed in previous comment letters, and also at the June 17th meeting, the road shall not be closed. A minimum of one lane traffic must be maintained during the first phase (i.e., during the construction of the 4 foot wide trench and storm line).

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,

Original Signed

Gene Williams, P.E.
Senior Staff Engineer
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cc: Development Engineering Project File