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**PUBLIC WORKS ENGINEERING DIVISION**

**Date:** Wednesday, June 24, 2015

**To:**

THH INC

Email: [jhuss@mecresults.com](mailto:jhuss@mecresults.com)

Fax #: (573) 814-1128

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

Senior Staff Engineer

**Application Number:** PL2015067

**Application Type:** Engineering Plan Review

**Application Name:** Summit Innovation Center - Public Street, Stormwater, ESC

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The Public Works Department received plans for this project on June 17, 2015. These plans are dated and were sealed on June 16, 2015. We have completed our review and offer the following comments:

**Engineering Review**

1. Calculations must be provided for the special junction box and manhole design. The calculations should include the standard to which it is designed.
2. Sheet C502 and C503: The inner diameter of the manhole must be five (5) feet rather than four (4) feet. Please revise accordingly.
3. Please ensure that all design details, including steel reinforcing on the plan view (i.e., not just the section views), monolithically-poured barrel section/junction box top are included for the special-design junction box/manholes.
4. The stilling basin does not appear to be large enough to handle the anticipated stormwater flows, especially for a 66" pipe. It would appear this feature will be washed away during a normal storm event. Are there any other measures proposed downstream of the rip-rap check dam to stabilize the surface? It would seem that the stilling basin should be enlarged considerably, and at a minimum, rip-rap placed for a considerable length downstream of the check dam.

**Traffic Review**

1. Street Name Sign for Innovation Pkwy shall be NW Innovation Pkwy.

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.

If you have any questions or comments, please contact me, Gene Williams either at (816) 969-1800 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  
Michael Park, P.E., P.T.O.E., City Traffic Engineer