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**PUBLIC WORKS ENGINEERING DIVISION**

**Date:** Tuesday, August 21, 2018

**To:**

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M-III LONGVIEW LLC  
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**From:** Sue Pyles, P.E.  
Senior Staff Engineer

**Application Number:** PL2018039

**Application Type:** Engineering Plan Review

**Application Name:** OLD LONGVIEW DAM RESTORATION

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The Development Services Department received plans for this project on March 06, 2018. 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. Sheet 10:

- It appears that the upstream riprap channel typical section should end at Sta. 3+30 rather than Sta. 3+36.53. Please verify and revise if needed.
- Label Sta. 0+85 in the Profile view.
- The word "construction" contains a typo in the woody vegetation note in the Plan view.

2. Sheet 11:

- Sta. 0+85 cross section – There is a gap in the proposed grade. Please revise.
- Sta. 1+00 cross section – Label the proposed sanitary sewer.

3. Sheet 13:

- Revise Concrete Ditch Lining Note 8 to refer questions to the design engineer.
- Label the concrete thickness in Section A-A downstream of the 10" thick section.
- Concrete Ditch Lining Note 2 and Materials General Note under Section A-A seem to contradict each

other for required concrete strength required. Please revise accordingly.

4. Sheet 14:
  - Revise the text overlapping on the 915 contour label.
  - Based on the elevations shown in Sections A-A and B-B (911.00 at basin entrance, 914.00 on basin high sides, and 911.50 at basin exit), the energy dissipation basin will have to back up onto the concrete channel in order to exit the basin. Please verify that this is the intent or revise accordingly.
5. Sheet 17:
  - Label the flowline elevation of the storm sewer discharging into the West Forebay.
  - How will the flared end section with toewall be integrated into the west forebay construction? Include details.
6. Sheet 19:
  - The Propex Landlok S2 label indicates installation after grading is complete, but the Propex Pyramat 25 does not. If that is not the intent, please revise accordingly.
7. Sheets 20-21:
  - Include the Landlok S2 installation details in the plan set.
8. Submit an Engineer's Estimate of Probable Construction Costs.

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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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 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 stormwater and traffic, shall be provided in Portable Document Format (PDF).
- It is requested that each plan sheet be a maximum of 2MB.

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