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**Date:** 5/7/2021  
**To:** Lauren Hollenbeck, Senior Planner  
**From:** Michael Andreotti, RLA  
**Project Name:** CJ Dens (SUB20-02)  
**AKS Job No.:** 5504  
**Project Site:** 715 SE Leadbetter Road, Camas, WA 98607  
**Subject:** Culvert Upsizing within Shoreline Jurisdiction

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This memo is written to provide additional information regarding the upsizing of two stormwater culverts that cross under SE Leadbetter Road.

As stated in the narrative for the Shoreline Substantial Development permit, the Applicant is proposing to upsize two stormwater culverts that cross under SE Leadbetter Road that discharge stormwater to Lacamas Lake. As part of the improvements, additional riprap will likely be required at the discharge point for the upsized culverts, requiring mitigation for the shoreline. The final size of the culverts will be determined during the final engineering design process for the project. Due to the final size of the culvert not yet being determined, the full amount of riprap needed at the end of the culvert is unknown.

As the full impact cannot be determined at this time, the full amount of mitigation cannot be determined. The Applicant will provide mitigation for the impacts, likely in the form of invasive plant removal and/or the installation of native plant material around the culvert. Final mitigation will be determined during the final design process and a mitigation plan will be provided at that time.