

MEMORANDUM

DATE: April 24, 2015
TO: Gina Auld
FROM: Yammie Ho
SUBJECT: Summary of Major Design Changes for 95% Submittal
CC: Jenny Bailey
PROJECT NUMBER: 554-1521-075
PROJECT NAME: East Lake Sammamish Master Plan Trail - South Sammamish Segment A

This memorandum summarizes the major design changes that are part of this 95% design submittal. The purpose of this 95% design submittal is to respond to the review comments of the 90% design submittal that were part of the Shoreline Substantial Development Permit review. The design team's responses to the Shoreline Substantial Development Permit comments are attached to this memorandum to provide more detail of the specific design changes.

Here is the summary of major design changes that are part of this 95% design submittal:

1. **Change to Criteria for Removing Existing Trees**

In coordination with the project arborist, it was determined that areas where new fill soils overlap existing tree root systems the tree could be monitored during construction, rather than removed. In addition, trees that are in poor health but are outside the grading limits of the project, will be monitored on an ongoing basis and only removed later if they become a hazard. Both these criteria changes reduced the number of trees to be removed.

2. **Modifying Intersection Sight Distance Criteria**

The intersection sight distance criteria was modified which reduced the sight distance "triangles" needed at each intersection with the trail. This resulted in reduced tree removals at some intersections.

3. **Trail Realignment to Avoid Tree Impacts Between Station 258+97 and 261+32**

The trail was realigned to the north to avoid impacting existing trees along the south side of the trail in the vicinity of 3907 and 3913 East Lake Sammamish Shore Lane SE. This trail realignment required the relocation of 191-feet of jurisdictional ditch along the north side of the trail, as described below.

4. **Realignment of Jurisdictional Ditch #10**

Where the jurisdictional ditch is being realigned at the location describe above, a 191-foot length concrete channel will replace the jurisdictional ditch. This concrete channel allows the realignment of the jurisdictional ditch without major excavation impacts to the existing steep slope between the trail and East Lake Sammamish Parkway.

5. **New Location for Proposed Stormwater Vault**

The location of the proposed stormwater vault has been moved from the north side of the trail to the south side of the trail near Station 225+00. This avoids the need to construct a costly soldier pile wall within the existing steep hillside supporting East Lake Sammamish Parkway. The soldier pile wall would have required reinforcing steel tiebacks to extend underneath East Lake Sammamish Parkway due to the poor soil condition on the hill side. These tiebacks would have likely impacted several buried utility lines and required easements under the roadway.

6. **Modifying Vertical Curves on Driveways**

To respond to concerns about low clearance vehicles “bottoming out” on the vertical curves of the reconstructed driveways, the profiles of some driveways were modified to create smoother vertical profiles. At some driveways, this resulted in exceeding the standard 2% cross slope on the trail where the driveways intersect. The resulting driveway surfaces were modeled in AutoTurn to confirm that standard passenger vehicles have adequate under clearance on the reconstructed driveways.

7. **Additional On-Site Wetland Mitigation Sites**

Additional on-site wetland mitigation sites are shown on the 95% plans in response to the City’s request to maximize on-site mitigation before utilizing the off-site wetland mitigation bank. As a result of this change, the use of the mitigation bank is not proposed for this segment of trail.