

ATTACHMENT 5

PACIFIC TREE CARE

Joseph A. Schneider Certified Arborist WE-0156A
Jacob I. Schneider Certified Arborist WE-5478A

Mark Thomas and Company

Attn. Zach Siviglia

RE City of Calistoga Berry Street Bridge Tree Removals

Mr. Siviglia,

Pursuant to your request I have made a site visitation to the Berry St. Bridge above the Napa River in Calistoga, CA. I have reviewed the trees slated for removal for the bridge reconstruction project based on the scanned PDF of the site plan dated 1-8-16, sheet DO-1. Some of the trees are not present at the site anymore and some have grown slightly since the original survey. A few tree species have been mis-identified by the surveyor. Below you will find brief observations, updated trunk diameters, and corrected identification. Since the survey took place, I know that Napa County Flood Control may have removed some of the missing trees; others may have simply been carried downstream. For ease of communication, I have attached a PDF of the site survey that you provided, with the tree numbers that I assigned.

Conclusion

Based upon the survey that you provided, nineteen trees will be removed to construct the bridge. Of those nineteen, ten are protected by the city of Calistoga Tree Ordinance 19.01.040, and their loss will need to be mitigated per the Municipal Code. The protected trees are #1, #2, #3, #5, #7, #8A, #10, #13, #14, #16.

Observations

Tree # 1 is a 52 inch diameter Valley Oak *Quercus lobata* displaying heavy dieback of the upper canopy. Bark beetle attack is evident. The estimated life span of this tree could be several hundred years in an ideal setting, however, due to the Bark beetle attack and location with a target below it is recommended the tree be removed within the next two years . Several other trees in this location have been removed due to dieback from fungal attack.

Tree # 2 is a 10 inch diameter Valley Oak, a young tree which exclusively leans over Berry Street. One sided canopy is due to competition from previously removed dead trees.

Tree # 3 is a co-dominant double stemmed Big Leaf Maple *Acer macrophyllum* leaning toward Berry Street. The stems measure 7 and 8 inches in diameter. This tree grows from between bridge abutment and roadway.

Tree# 4 is a Valley Oak stump. Tree is gone, removed due to insect and fungal attack.

Tree# 5 is a 20 inch diameter Valley Oak which is one sided, almost exclusively above the river channel. There is light tip dieback in the canopy.

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Tree# 6 is a 3 inch diameter California Bay Laurel *Umbellularia californica* growing approximately 5 feet from the bridge abutment, above the small wall.

Tree # 7 is a 14 inch diameter Red Alder *Alnus rubra* that has fallen parallel to the edge of the stream channel. Vertical limbs have become dominant at 10-15 feet above the stream bed.

Tree# 8A is a 20 inch diameter Red Willow *Salix laevigata*. This tree is a tall stump that has resprouted and is infested with grape vine.

Tree# 8B is an 8 inch diameter Oregon Ash *Fraxinus latifolia*. This tree is growing through the canopy of the adjacent willow and also infested with grape vine.

Trees # 9A and 9B are identified as Oaks but they are not present at the site.

Tree#10 is a 12 inch diameter Red Alder centered on the middle bridge support.

Tree#11 is a 10 inch diameter Red Alder on the side of the stream channel.

Tree #12 is a double stemmed co dominant Oregon Ash, measuring 2 and 2.5 inches in diameter, located beneath the bridge itself.

Tree# 13 is a double stemmed Hollywood Juniper *Junipurus chinensis 'torulosa'* located in the adjacent park, the stems measure 10 inches and 4 inches in diameter.

Tree # 14 is an 18 inch diameter Camphor *Cinnamomum camphora* that is dead, located in the center of the adjacent park.

Tree# 15 is a single stem 3 inch diameter Black Locust *Robinia psuedoacacia* located adjacent to the neighboring property owners storage area. This tree is noted as 3, 3 inch diameter Alders on the plan.

Tree# 16 is a 20 inch Red Alder which leans heavily over the river channel.

Tree # 17 was a California Black Walnut *Juglans hindsii*. This tree has been removed, the stump is sprouting.

Tree # 18 is an 8 inch California Bay Laurel with a Christmas tree like form, located behind the fence and adjacent to the Calistoga Elementary School playground.

Tree # 19 A and B are two Black Locust trees which measure 4 and 6 inches in diameter respectively. These trees are infested with grape vine.

Sincerely,

Jacob I Schneider

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