

December 6, 2019

Derrek Lee
Old Roseville LLC
1204 Wood Oak Ct.
Roseville, CA 95747

RE: Arborist Report for Old Roseville Townhomes Project, City of Roseville, California

Dear Mr. Lee:

The purpose of this letter is to document protected trees on the ±0.95 acre Old Roseville Townhomes project site, located on the northeast corner of Lincoln Street and Grove Street, within the City of Roseville, Placer County, California, and to assess potential impacts on protected trees by the proposed project (Figure 1). The survey was conducted in conjunction with Mitigation Measure 4.9-8 of the *Downtown Roseville Specific Plan Mitigation and Monitoring Program*, dated March 2009. The Proposed Project includes the construction of 18 townhome units, fencing and associated landscaping.

The City of Roseville Tree Ordinance regulates encroachment within the protected zone and removal of protected trees. Protected trees include any native oak, defined as valley oak (*Quercus lobata*), blue oak (*Quercus douglasii*), interior live oak (*Quercus wislizeni*), or any hybrid between these species, with a trunk diameter of six inches or greater at breast height (54 inches or 4.5-feet above grade) measured as a total of a single trunk or multiple trunks. The tree protection zone (TPZ) is the area within a circle around the tree defined by the largest radius of the canopy plus one foot.

A tree permit is required for removal of protected trees, and any regulated activities associated with a discretionary project occurring within more than 20 percent of the protected zone of a protected tree. Trees identified by an arborist as dead or hazardous trees may be removed without a permit and do not require mitigation. The City of Roseville may require mitigation for tree removal as a condition of the tree permit. Mitigation shall be based on an inch for inch replacement of trees to be removed and a minimum of 50 percent of the replacement trees shall be native oaks. Replacement planting is the preferred alternative, but relocation of existing trees, revegetation, or payment of in-lieu mitigation fees may also be used to fulfill the mitigation requirements.

METHODS

ISA-Certified Arborist Zachary Neider (WE-11615A) conducted an arborist survey of the site on November 25, 2019. All native oak trees within or overhanging the project footprint were examined to determine species and trunk diameter at breast height. A diameter tape or calipers were used to verify each trunk diameter. Each protected tree was tagged with a pre-printed aluminum tag that corresponds

to the numbering in Table 1 below. All protected trees were identified to species and diameter at breast height (DBH), dripline radius (DLR), height, health, and structure were noted. The measurement from the trunk to the end of the longest lateral limb was visually estimated and used as the dripline radius. Approximate tree locations of protected trees were mapped using a Trimble GeoXT Global Positioning System (GPS) hand-held unit with sub-meter accuracy. Additionally, tree species data taken by King Engineering, dated September 6, 2019, was verified during the site visit.

The overall health and structure of each protected tree was evaluated on a scale ranging from poor to good. The health rating considers factors such as the size, color, and density of the foliage; the amount of deadwood within the canopy; bud viability; evidence of wound closure; and the presence or evidence of stress, disease, nutrient deficiency, and insect infestation. The structural rating reflects the trunk and branch configuration; canopy balance; the presence of included bark and other structural defects such as decay; and the potential for structural failure.

RESULTS

A total of two protected trees were surveyed within the project footprint. Both trees identified in the survey area were valley oak trees (*Quercus lobata*). Additional tree species identified, on the project site but not protected under the City Code, included Catalpa (*Catalpa speciosa*), London plane (*Platanus x acerifolia*), almond (*Prunus dulcis*), mulberry (*Morus alba*), juniper (*Juniperus* sp.), edible fig (*Ficus carica*), citrus (*Citrus* sp.), and privet (*Ligustrum* sp.). Detailed tree data for the two protected surveyed trees is included in Table 1. The approximate locations of the two protected trees and their driplines are shown on Figure 2.

Of the two protected oak trees within the survey area, one (#257) is in Fair-Good health and Fair structure, and the other (#256) is in Fair health and Poor-Fair structure (due to a heavy lean and an asymmetrical canopy weighted on one side). While failure of this structurally compromised tree does not appear imminent, problems can worsen over time, leading to failure. Although a crown cleaning and pruning to lighten overburdened limbs would reduce the risk of failure, there is no treatment that will correct these structural issues. If failure were to occur, then the tree may be uprooted and cause damage to targets; therefore, this tree is recommended for removal.

IMPACT ASSESSMENT AND MITIGATION REQUIREMENTS

The Proposed Project will remove the two protected oak trees within the survey area (Figure 2). One tree (#256) is recommended for removal.

Table 1
IMPACTS TO PROTECTED TREES

Tree #	Species	DBH (Inches)	Impacts	Mitigation
256	Valley Oak	17	Planned for removal	None Expected
257	Valley Oak	15	Planned for removal	Required

Since one of the two protected trees (#256) to be removed by the project is recommended for removal due to poor condition, no mitigation is anticipated for removal of that tree. Tree #257 requires mitigation on an inch-for-inch basis. This can be in the form of 15 (15-gallon) replacement trees, eight

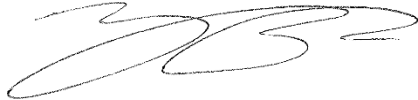
(24-inch box) trees, or five (36-inch box) trees. Alternatively, in-lieu fees can be paid at \$118 per trunk inch removed. This would equate to an estimated cost of approximately \$1,770.

TREE PROTECTION RECOMMENDATIONS

Because no trees are slated for preservation, no protection or preservation measures are recommended.

Please do not hesitate to call me at (916) 435-1202 or email at zacharyn@helixepi.com, if you have any questions about this report.

Sincerely,

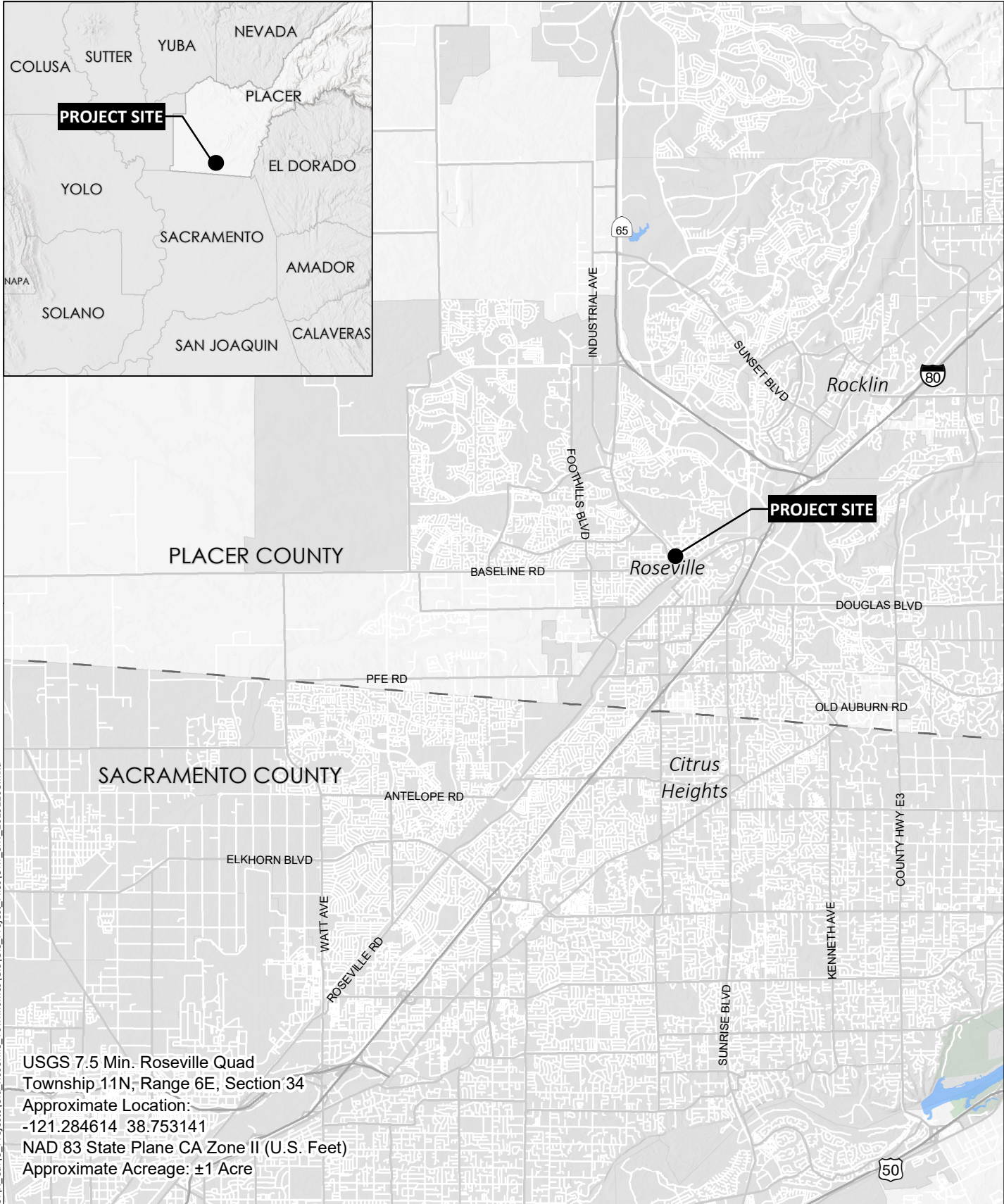
A handwritten signature in black ink, appearing to read 'Zachary Neider', written in a cursive style.

Zachary Neider
ISA-Certified Arborist #WE-11615A

Enclosures:

Figure 1, Vicinity Map

Figure 2, Protected Tree Locations and Project Impacts






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USGS 7.5 Min. Roseville Quad
 Township 11N, Range 6E, Section 34
 Approximate Location:
 -121.284614 38.753141
 NAD 83 State Plane CA Zone II (U.S. Feet)
 Approximate Acreage: ±1 Acre



Source: Base Map Layers (Esri, USGS, NGA, NASA)

Legend

-  Protected Trees
-  Project Impact Footprint - 0.95 Acre
-  Project Boundary - 0.95 Acre



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Source: Aerial (City of Roseville, 4/22/2019)