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INSPECTION 3

Mark Cassady
Essex Environmental
637 Main Street
Half Moon Bay, CA 94019

PROJECT: LEONA QUARRY TREE PROTECTION

SUBJECT: Additional Tree Removals

SUMMARY

The connection with Altura Road and finish grading in the area will require the removal of nine additional trees in this area. Four are Coast Live Oak trees that have not yet been approved for removal. The other five are Blue Gum Eucalyptus trees, two of which require a tree removal permit.

Eight trees are recommended for removal along the fire access road paralleling Highway 580. Seven of the trees are in conflict with the asphalt drainage ditch and one is considered to be hazardous. All eight will require a tree removal permit as none are on the list of approved tree removals.

ALTURA LANE ACCESS ROAD

Trees in this area will be impacted by the fire road entrance to the project site at Altura Lane. This will require removal of four Coast Live Oak trees in the path of the proposed street. Oak tree #84 is tagged and is located on the property boundary. This tree was previously designated to be retained. Three additional Coast Live Oak trees that are closely adjacent to tree #84 will also require removal to accommodate the road. These trees were not included in the tree survey. The trees are all located outside of the project boundaries and are likely owned by the City of Oakland.

In addition to the four oak trees, five Blue Gum Eucalyptus trees will require removal to accommodate the road and final grading plans. Three of the eucalyptus have survey tags, (#'s 73, 78, & 79). The two eucalyptus trees without

survey tags are listed as 73A and 84D due to their proximity to trees #73 and #84.

Eucalyptus tree # 84D is about 40 feet outside of the project boundary to the east and within the bounds of the proposed roadway. Eucalyptus tree #'s 73, 74A, 78 & 79 are recommended for removal due to grading encroachment into the "root protection zone"¹. Long term tree root anchoring will be impacted by grading cuts. There is a significant "target value"² in the existing residence to the southeast as well as to any future structures to be constructed.

Three of these trees, #'s 73, 78 & 79, have been previously approved for removal by the City of Oakland. A listing of trees to be removed and comments is provided below in table 1.

Table 1.

Tree #	Species	DBH	Comments
84	Coast Live Oak	9"	Noted as 15" in survey data. Original designated for retention.
84A	Coast Live Oak	5.5"	City Property, not surveyed
84B	Coast Live Oak	7", 8"	City property, not surveyed.
84C	Coast Live Oak	6"	City Property, not surveyed.
84D	Blue Gum Eucalyptus	36"	40' to the east of #84. Within the proposed roadway.
73	Blue Gum Eucalyptus	18", 10"	Grading damage to roots
73A	Blue Gum Eucalyptus	32"	Grading damage. Private Property. Must have approval.
78	Blue Gum Eucalyptus	17"	Grading Damage
79	Blue Gum Eucalyptus	24", 6"	Grading Damage

TREE REMOVAL ON FIRE ACCESS ROAD PARALLEL TO 580 FREEWAY

These eight trees recommended for removal are located on the southeast side of the drainage ditch running along the uphill side of the fire access road along Freeway 580. The primary reason for recommending removal of these trees is their conflict with the asphalt drainage ditch.

Three of the eight trees are Blue Gum Eucalyptus, three are Bailey Acacia and two are Blackwood Acacia. Seven of the eight trees are in conflict with the asphalt drainage ditch on the uphill (north) side of the road. The eighth tree (no number) is located immediately adjacent to the drainage ditch and is recommended for removal due to problematic root anchoring.

¹ Root Protection Zone – Equal to one foot radial distance from the base of the tree for every one inch in DBH. Example: The root protection zone of a 30 inch diameter tree extends out 30 feet in all directions.

² Target Value – Based upon the presence of structures or human occupation of the area within impact of a falling tree.



Table 2 on the next page provides information about the eight trees recommended for removal along the western perimeter fire access road. All trees are located on the southeast side of the fire access road, on the opposite side as Freeway 580.

Table 2.

TREE #	SPECIES	DBH	COMMENTS
298	Bailey Acacia	20"	In ditch
299	Bailey Acacia	11"	Potential root failure, at edge of asphalt drainage ditch.
301?	Blue Gum Euc.	27", 16"	In ditch
#?	Bailey Acacia	13"	In ditch and over manhole cover.
304	Blackwood Acacia	8"	In ditch
305	Blackwood Acacia	12", 12"	In ditch
306	Blue Gum Euc.	15", 9", 6"	In ditch
310	Blue Gum Euc.	18"	In ditch

CONCLUSIONS AND RECOMMENDATIONS

It appears that a tree removal permit will be required for fourteen of the seventeen trees designated for removal in this report. The removal of the four Coast Live Oak trees cannot be avoided due to the alignment of Altura Lane. It is assumed that the four oaks and one eucalyptus area within the proposed street and belong to the City of Oakland.

Permission to remove the Blue Gum Eucalyptus located on private property will require approval of the property owner.

It is recommended that the eight acacia and eucalyptus trees along the western frontage road be removed to provide for safety and water drainage ditch clearance.

Submitted by:

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