

Appendix C

Supplemental Carbon Sequestration and Canopy Study



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Carbon Sequestration and Canopy Study
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Background

Harvard-Westlake School (“School”) seeks to develop a recreational facility on a 16.1-acre (701,428-square-foot) parcel purchased by the School in 2017 (“Property”) located at 4047, 4141, and 4155 N. Whitsett Avenue and 12506, 12600, and 12630 W. Valley Spring Lane; and a 1.1-acre (47,916-square-foot) parcel the School leases from the Los Angeles County Flood Control District (“Leased Property”) (portion of Assessor Parcel Number [APN] 2375-018-903), which collectively comprise the 17.2-acre (749,344-square-foot) project site (“Project Site”). The Project Site is currently operated as a par-27 nine-hole golf course, driving range, and tennis facility, known as Weddington Golf & Tennis. The Project consists of the development of two athletic fields with bleacher seating and field lights, a multi-purpose gymnasium, a 52-meter swimming pool with seating, and eight tennis courts with seating. The Project would also include ancillary field buildings, a pool house, and security kiosks. The existing golf and tennis facilities would be removed; however the existing clubhouse, including its café, putting green, golf ball-shaped light standards, and low brick retaining wall along the northeastern edge of the Property would be retained and rehabilitated. A draft Environmental Impact Report (“Draft EIR”) for the Project was circulated by the Department of City Planning in March 2022 (ENV-2020-1512-EIR).

Public comments received during the Draft EIR circulation period expressed concern about the removal and replacement of trees on the Project Site, citing “old growth” trees, the damage to the environment that might result from the removal of trees, and the belief that the Project’s landscaping program would take a long time to replace the environmental benefits of existing trees. This study has been prepared to address some of these landscape-based public comments. Specifically, this analysis uses recognized, scientific methodologies and publicly available databases to compare rates of carbon sequestration and degree of Project Site canopy coverage between the existing and proposed landscapes.

Inputs to the calculation models were derived from the Draft EIR, including Figures IV.C-4 and IV.C-5 (the Project’s tree removal and planting plans), in Section IV, *Biological Resources*, and the October 2020 Tree Report prepared by Carlberg Associates included as an appendix to the Biological Resources Technical Report contained in Appendix D of the Draft EIR. Accordingly, the Project would remove 240 of the 345 existing trees on the Project Site and replace them with 393 trees (refer to Appendix A and Appendix B of this report for the tree removals and replacement trees, respectively). The trees to be removed are all non-native species, including 121 Mexican fan palms. It is important to note that, in addition to being an invasive species and inconsistent with City requirements for projects located near the Los Angeles River, Mexican fan palms are taxonomically monocots (more similar to grasses and reeds than actual trees) but are nonetheless evaluated as trees for these analyses.

The Project’s landscaping plan, developed by the landscape architecture firm Studio-MLA, includes the planting of 393 trees that are all native to California and would provide for a greater array of wildlife habitat and increased foraging opportunities on the Project Site. Supplementing the Project’s tree replacement program is the addition of thousands of understory plants from among dozens of native species, though such species are not directly included in the study of carbon sequestration or shade.

Summary of Findings

Existing onsite trees (including Mexican fan palms) were compared with the Project’s replacement trees, modeling rates of carbon sequestration and the percentage of the Project Site to be covered by tree canopy. Carbon sequestration calculations were performed using the i-Tree software suite v5.x¹. Recognized as the industry’s leading tool to calculate carbon sequestration, i-Tree was developed by the

¹ <http://www.itreetools.org> accessed October 2022.

USDA Forest Service along with private sector partners, including Davey Tree Expert Company, the Arbor Day Foundation, Society of Municipal Arborists, International Society of Arboriculture, Casey Trees, and Suny College of Environmental Science and Forestry.

Tree canopy (i.e., shade) calculations were performed using the CalPoly SelecTree program², developed by the Urban Forest Ecosystems Institute. Both models utilized conservative assumptions by not accounting for the degraded health of the existing trees on the Project Site, by assigning carbon sequestration and canopy benefits to existing trees that are already dead, assuming that all existing trees are in “excellent” health (even though, excluding Mexican fan palms, half of the trees to be removed have health grades of C or lower), and by using sizing assumptions for replacement trees that are on the smaller range of what is available in commercial nurseries.

Based upon the data, the following conclusions were made:

Carbon sequestration

- During year two of Project operation, the annual carbon dioxide sequestration rate of the Project’s replacement trees (43,160 pounds, Figure 4) will be approximately equivalent to that of the existing trees (44,633 pounds, Figure 1)
- After year two of Project operation, the replacement trees will sequester carbon dioxide at increasingly greater rates than existing trees. Specifically, during year five of Project operation, the replacement trees will sequester more than 73,000 pounds of carbon dioxide (Figure 5) and 131,000 pounds in year ten (Figure 6)
- Over the lifetime of the Project’s replacement trees, approximately 8.7 million pounds of carbon dioxide will be sequestered (Figure 7), as compared to 2.6 million pounds by the existing trees (Figure 2)

Canopy coverage

- Approximately 20% of the Project Site is currently covered by tree canopy. That level will not significantly increase further given the relative maturity of existing trees. (see Figure 8)
- The Project’s canopy coverage will reach a similar level between years five and ten of operation (year five coverage is approximately 15%, year ten is approximately 28%). (see Figures 10 and 11)
- At year 25 of Project operation, 53% of the Project Site will be underneath canopy coverage, which is 2.5 times more coverage than existing conditions. (see Figure 12)

The Project’s favorable points of comparison described above are in large part the result of the relatively poor biological characteristics of the existing tree mix. Notably, the prevalence of Mexican fan palms on the Project Site, which are comprised of fibrous strands and lack branches and extensive leaf systems, significantly degrade carbon sequestration capacity and provide nominal canopy coverage. For example, a single mature Mexican fan palm (60-80’ in height) is estimated to sequester 34 pounds of carbon dioxide per year. By contrast, a single Engelmann Oak or Valley Oak in a 48” box size would sequester 100 pounds of carbon dioxide in the first year alone following planting, more than three times that of a mature Mexican fan palm.

² <https://selectree.calpoly.edu/> accessed October 2022.

Methodologies

Carbon Sequestration

Rates of carbon sequestration (measured as pounds of carbon dioxide [CO₂]) are calculated by comparing the existing trees on the Project Site that are to be removed with the replacement trees that would be planted as part of the Project. More specifically, the existing trees on the Project Site that are to be preserved should be excluded from the comparison as the sequestration values would apply equally to existing conditions and Project projections.

Input parameters for the i-Tree software consist of tree size, species, age, region and sun exposure, and growing condition, with output data consisting of the annual rate of carbon sequestration and total embodied carbon sequestration over the lifetime of the tree. Data presented in this report was reviewed with members of the i-Tree development team to ensure accuracy.

As described in Section IV, *Biological Resources*, of the Draft EIR, the Project's replacement trees will be sourced in box sizes ranging from 36 to 48 inches. To translate box sizes of the replacement trees to their physical dimensions, available inventory from commercial nurseries was reviewed. If significant variability in tree size existed for a given box size, it was conservatively assumed a smaller range of tree sizes.

Further assumptions applied to the carbon sequestration model are listed below.

1. The October 2020 Tree Report prepared by Carlberg Associates was relied upon to calculate CO₂ sequestration of existing trees that would be removed by the Project
2. Data outputs from the i-Tree software consisted of the web-based CO₂ sequestration calculator known as 'i-Tree Design' and the software interface 'i-Tree Eco'
3. Existing trees that would be removed by the Project were all assumed to be in "excellent" health condition, even though the Carlberg Associates Tree Report identified a wide range of health grades (including several trees that were deemed dead, and more than half of all trees to be removed were assigned health grades of C or lower, excluding Mexican fan palms)
4. Rather than continue to age the existing trees in the i-Tree software, as those trees are already mature and/or in a state of decline, the data comparisons conservatively assumed that existing trees would continue to annually sequester the same level of CO₂ in the future as they do today
5. i-Tree software does not provide a complete database for all types of trees in all regions. To model the specific site comparisons contained in this analysis:
 - A. Calculations used full sun conditions for the region, as most of the existing/proposed trees are/would be located in a park-like setting, away from structures and will/would eventually grow taller than the proposed structures
 - B. The Project's replacement trees were evaluated with an "excellent" health condition, the same setting applied to existing trees. Using an "excellent" health condition is appropriate since the proposed trees would all be supplied by reputable tree nurseries that comply with the nursery industry standard, ANSI Z60.1 "American Standard for Nursery Stock"
 - C. i-Tree design software projected DBH growth rates for all trees except Toyon (*Heteromeles arbutifolia*) and Pacific Wax Myrtle (*Myrica californica*). For Toyon and Pacific Wax Myrtle, the i-Tree Eco tool was used instead with an assumed DBH growth rate

of 1" per year

- D. Pacific Wax Myrtle (*Myrica californica*) has an alternative synonym known as *Morella californica*, which is a listed species in the i-Tree Eco data set and was used to calculate CO₂ sequestration data for *Myrica californica*
- E. References to "lifetime" CO₂ sequestration refer to the maximum time period allowed for input into the i-Tree software (99 years), even if most of the Project's tree species could be expected to live for significantly longer

Canopy Coverage

The CalPoly SelecTree program, developed by the Urban Forest Ecosystems Institute, was used to calculate tree growth rates and assumed the same commercial tree inventory (availability and sizing) as the carbon sequestration analysis.

Unlike the carbon sequestration methodology, however, all existing trees were included in the calculation of canopy coverage in order to appropriately characterize current conditions on the Project Site. Similarly, existing trees that will be preserved by the Project were included in the calculation of the Project's canopy coverage.

Given the diverse range of species in the Project's tree replacement program and their respective growth rates, tree maturation points vary from 10 to 50 years, with a weighted average of 25 years. Figure 12, depicting the Project's trees at maturity, is therefore also assumed to occur in year 25 following Project construction.

EXISTING TREES AND PALMS			
	SIZE	ANNUAL CO2 SEQUESTERED PER TREE/PALM (POUNDS)	TOTAL ANNUAL CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
MEXICAN FAN PALM (121) <i>WASHINGTONIA ROBUSTA</i>	DBH: 12" SIZE: VARIES - 77'H X 24'W	34 LBS	(121) EXISTING FAN PALMS X 34 LBS ANNUAL CO2 SEQUESTERED ----- 4,114 LBS TOTAL ANNUAL CO2 SEQUESTERED
ALEPPO PINE (36) <i>PINUS HALEPENSIS</i>	DBH: 46.9" SIZE: 15-90'H X 37-102'W	372 LBS	(36) EXISTING TREES X 372 LBS ANNUAL ----- 13,392 LBS TOTAL ANNUAL CO2 SEQUESTERED
BLUE GUM (16) <i>EUCALYPTUS GLOBULUS</i>	DBH: 35.9" SIZE: 20-75'H X 21-105'W	338 LBS	(16) EXISTING TREES X 338 LBS ANNUAL ----- 5,408 LBS TOTAL ANNUAL CO2 SEQUESTERED
AMERICAN SWEETGUM (8) <i>LIQUIDAMBAR STYRACIFLUA</i>	DBH: 11" SIZE: 20-25'H X 22-43'W	162 LBS	(8) EXISTING TREES X 162 LBS ANNUAL ----- 1,296 LBS TOTAL ANNUAL CO2 SEQUESTERED
CANARY ISLAND PINE (8) <i>PINUS CANARIENSIS</i>	DBH: 29.3" SIZE: 82-105' H X 70-90'W	420 LBS	(8) EXISTING TREES X 420 LBS ANNUAL ----- 3,360 LBS TOTAL ANNUAL CO2 SEQUESTERED
COASTAL REDWOOD (7) <i>SEQUOIA SEMPERVIRENS</i>	DBH: 29.5" SIZE: 35-70'H X 40-57'W	520 LBS	(7) EXISTING TREES X 520 LBS ANNUAL ----- 3,640 LBS TOTAL ANNUAL CO2 SEQUESTERED
WINDMILL PALM (7) <i>TRACHYCARPUS FORTUNEI</i>	DBH: 12" SIZE: 20-23'H X 12'W	43 LBS	(7) EXISTING TREES X 43 LBS ANNUAL ----- 301 LBS TOTAL ANNUAL CO2 SEQUESTERED
OLIVE (6) <i>OLEA EUROPAEA</i>	DBH: 35.5" SIZE: 18-25'H X 15-70'W	35 LBS	(6) EXISTING TREES X 35 LBS ANNUAL ----- 210 LBS TOTAL ANNUAL CO2 SEQUESTERED
CAMPHOR (4) <i>CINNAMOMUM CAMPHORA</i>	DBH: 18.8" SIZE: 25-40'H X 64-72'W	822 LBS	(4) EXISTING TREES X 822 LBS ANNUAL ----- 3,288 LBS TOTAL ANNUAL CO2 SEQUESTERED
INDIAN LAUREL FIG (4) <i>FICUS MICROCARPA</i>	DBH: 10" SIZE: 20-28'H X 39-43'W	235 LBS	(4) EXISTING TREES X 235 LBS ANNUAL ----- 940 LBS TOTAL ANNUAL CO2 SEQUESTERED
DEODAR CEDAR (3) <i>CEDRUS DEODARA</i>	DBH: 32" SIZE: 45-50'H X 60'W	724 LBS	(3) EXISTING TREES X 724 LBS ANNUAL ----- 2,172 LBS TOTAL ANNUAL CO2 SEQUESTERED
ARIZONA CYPRESS (2) <i>CUPRESSUS ARIZONICA</i>	DBH: 21" SIZE: 25-55'H X 30'W	938 LBS	(2) EXISTING TREES X 938 LBS ANNUAL ----- 1,876 LBS TOTAL ANNUAL CO2 SEQUESTERED
BEEFWOOD (2) <i>CASUARINA CUNNINGHAMIANA</i>	DBH: 33.5" SIZE: 22-45'H X 20'W	23 LBS	(2) EXISTING TREES X 23 LBS ANNUAL ----- 46 LBS TOTAL ANNUAL CO2 SEQUESTERED
CHINESE SWEETGUM (2) <i>LIQUIDAMBAR FORMOSANA</i>	DBH: 13.9" SIZE: 35-50'H X 20'W	183 LBS	(2) EXISTING TREES X 183 LBS ANNUAL ----- 366 LBS TOTAL ANNUAL CO2 SEQUESTERED
AFGHAN PINE (1) <i>PINUS BRUTIA</i> VAR. 'ELDARICA'	DBH: 24.3" SIZE: 50'H X 30'W	573 LBS	(1) EXISTING TREES X 573 LBS ANNUAL ----- 573 LBS TOTAL ANNUAL CO2 SEQUESTERED
EVERGREEN PEAR (1) <i>PYRUS KAWAKAMII</i>	DBH: 22.4" SIZE: 30'H X 40'W	688 LBS	(1) EXISTING TREES X 688 LBS ANNUAL ----- 688 LBS TOTAL ANNUAL CO2 SEQUESTERED
HOLLYWOOD JUNIPER (1) <i>JUNIPERUS CHINENSIS 'TORULOSA'</i>	DBH: 15.7" SIZE: 20'H X 40'W	463 LBS	(1) EXISTING TREES X 463 LBS ANNUAL ----- 463 LBS TOTAL ANNUAL CO2 SEQUESTERED
ITALIAN CYPRESS (1) <i>CUPRESSUS SEMPERVIRENS</i>	DBH: 8.2" SIZE: 40'H X 4'W	170 LBS	(1) EXISTING TREES X 170 LBS ANNUAL ----- 170 LBS TOTAL ANNUAL CO2 SEQUESTERED
JACARANDA (1) <i>JACARANDA MIMOSIFOLIA</i>	DBH: 14.3" SIZE: 30'H X 30'W	254 LBS	(1) EXISTING TREES X 254 LBS ANNUAL ----- 254 LBS TOTAL ANNUAL CO2 SEQUESTERED
LEMON SCENTED GUM (1) <i>CORYMBIA CITRIODORA</i>	DBH: 28" SIZE: 75'H X 60'W	265 LBS	(1) EXISTING TREES X 265 LBS ANNUAL ----- 265 LBS TOTAL ANNUAL CO2 SEQUESTERED
MALLET FLOWER (1) <i>SCHEFFLERA PUECKLERI</i>	DBH: 10" SIZE: 18'H X 20'W	331 LBS	(1) EXISTING TREES X 331 LBS ANNUAL ----- 331 LBS TOTAL ANNUAL CO2 SEQUESTERED
NORFOLK ISLAND PINE (1) <i>ARAUCARIA HETEROPHYLLA</i>	DBH: 8.3" SIZE: 30'H X 20'W	325 LBS	(1) EXISTING TREES X 325 LBS ANNUAL ----- 325 LBS TOTAL ANNUAL CO2 SEQUESTERED
SHAMEL ASH (1) <i>FRAXINUS UHDEI</i>	DBH: 43" SIZE: 35'H X 45'W	30 LBS	(1) EXISTING TREES X 30 LBS ANNUAL ----- 30 LBS TOTAL ANNUAL CO2 SEQUESTERED
SILK TREE (1) <i>ALBIZIA JULIBRISSIN</i>	DBH: 9" SIZE: 22'H X 40'W	126 LBS	(1) EXISTING TREES X 126 LBS ANNUAL ----- 126 LBS TOTAL ANNUAL CO2 SEQUESTERED
SILVER LEAF MAPLE (1) <i>ACER SACCHARINUM</i>	DBH: 16.8" SIZE: 38'H X 30'W	430 LBS	(1) EXISTING TREES X 430 LBS ANNUAL ----- 430 LBS TOTAL ANNUAL CO2 SEQUESTERED
SPOTTED GUM (1) <i>CORYMBIA MACULATA</i>	DBH: 24.3" SIZE: 30'H X 30'W	192 LBS	(1) EXISTING TREES X 192 LBS ANNUAL ----- 192 LBS TOTAL ANNUAL CO2 SEQUESTERED
TANGERINE (1) <i>CITRUS RETICULATA</i>	DBH: 6" SIZE: 50'H X 40'W	194 LBS	(1) EXISTING TREES X 194 LBS ANNUAL ----- 194 LBS TOTAL ANNUAL CO2 SEQUESTERED
WEeping FIG (1) <i>FICUS BENJAMINA</i>	DBH: 8.3" SIZE: 15'H X 12'W	183 LBS	(1) EXISTING TREES X 183 LBS ANNUAL ----- 183 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOTAL PALMS AND TREES (240)			44,633 LBS TOTAL ANNUAL CO2 SEQUESTERED (CURRENT YEAR)

Figure 1 –Annual Sequestration of Existing Trees and Palms to be Removed

EXISTING TREES AND PALMS (LIFETIME)		
	LIFETIME CO2 SEQUESTERED PER TREE/PALM (POUNDS)	TOTAL LIFETIME CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
MEXICAN FAN PALM (121) <i>WASHINGTONIA ROBUSTA</i>	5,562 LBS	(121) EXISTING FAN PALMS X 5,562 LBS LIFETIME ----- 673,002 LBS TOTAL LIFETIME CO2 SEQUESTERED
ALEPPO PINE (36) <i>PINUS HALEPENSIS</i>	9,100 LBS	(36) EXISTING TREES X 9,100 LBS LIFETIME ----- 327,600 LBS TOTAL LIFETIME CO2 SEQUESTERED
BLUE GUM (16) <i>EUCALYPTUS GLOBULUS</i>	9,889 LBS	(16) EXISTING TREES X 9,889 LBS LIFETIME ----- 158,224 LBS TOTAL LIFETIME CO2 SEQUESTERED
AMERICAN SWEETGUM (8) <i>LIQUIDAMBAR STYRACIFLUA</i>	36,363 LBS	(8) EXISTING TREES X 36,363 LBS LIFETIME ----- 290,904 LBS TOTAL LIFETIME CO2 SEQUESTERED
CANARY ISLAND PINE (8) <i>PINUS CANARIENSIS</i>	29,341 LBS	(8) EXISTING TREES X 29,341 LBS LIFETIME ----- 234,728 LBS TOTAL LIFETIME CO2 SEQUESTERED
COASTAL REDWOOD (7) <i>SEQUOIA SEMPERVIRENS</i>	21,908 LBS	(7) EXISTING TREES X 21,908 LBS LIFETIME ----- 153,356 LBS TOTAL LIFETIME CO2 SEQUESTERED
WINDMILL PALM (7) <i>TRACHYCARPUS FORTUNEI</i>	856 LBS	(7) EXISTING TREES X 856 LBS LIFETIME ----- 5,992 LBS TOTAL LIFETIME CO2 SEQUESTERED
OLIVE (6) <i>OLEA EUROPAEA</i>	3,520 LBS	(6) EXISTING TREES X 3,520 LBS LIFETIME ----- 21,120 LBS TOTAL LIFETIME CO2 SEQUESTERED
CAMPHOR (4) <i>CINNAMOMUM CAMPHORA</i>	29,548 LBS	(4) EXISTING TREES X 29,548 LBS LIFETIME ----- 118,192 LBS TOTAL LIFETIME CO2 SEQUESTERED
INDIAN LAUREL FIG (4) <i>FICUS MICROCARPA</i>	5,214 LBS	(4) EXISTING TREES X 5,214 LBS LIFETIME ----- 20,856 LBS TOTAL LIFETIME CO2 SEQUESTERED
DEODAR CEDAR (3) <i>CEDRUS DEODARA</i>	37,508 LBS	(3) EXISTING TREES X 37,508 LBS LIFETIME ----- 112,524 LBS TOTAL LIFETIME CO2 SEQUESTERED
ARIZONA CYPRESS (2) <i>CUPRESSUS ARIZONICA</i>	41,580 LBS	(2) EXISTING TREES X 41,580 LBS LIFETIME ----- 83,160 LBS TOTAL LIFETIME CO2 SEQUESTERED
BEEFWOOD (2) <i>CASUARINA CUNNINGHAMIANA</i>	6,769 LBS	(2) EXISTING TREES X 6,769 LBS LIFETIME ----- 13,538 LBS TOTAL LIFETIME CO2 SEQUESTERED
CHINESE SWEETGUM (2) <i>LIQUIDAMBAR FORMOSANA</i>	36,218 LBS	(2) EXISTING TREES X 36,218 LBS LIFETIME ----- 72,436 LBS TOTAL LIFETIME CO2 SEQUESTERED
AFGHAN PINE (1) <i>PINUS BRUTIA</i> VAR. 'ELDARICA'	37,421 LBS	(1) EXISTING TREES X 37,421 LBS LIFETIME ----- 37,421 LBS TOTAL LIFETIME CO2 SEQUESTERED
EVERGREEN PEAR (1) <i>PYRUS KAWAKAMII</i>	29,605 LBS	(1) EXISTING TREES X 29,605 LBS LIFETIME ----- 29,605 LBS TOTAL LIFETIME CO2 SEQUESTERED
HOLLYWOOD JUNIPER (1) <i>JUNIPERUS CHINENSIS</i> 'TORULOSA'	52,346 LBS	(1) EXISTING TREES X 52,346 LBS LIFETIME ----- 52,346 LBS TOTAL LIFETIME CO2 SEQUESTERED
ITALIAN CYPRESS (1) <i>CUPRESSUS SEMPERVIRENS</i>	4,969 LBS	(1) EXISTING TREES X 4,969 LBS LIFETIME ----- 4,969 LBS TOTAL LIFETIME CO2 SEQUESTERED
JACARANDA (1) <i>JACARANDA MIMOSIFOLIA</i>	14,753 LBS	(1) EXISTING TREES X 14,753 LBS LIFETIME ----- 14,753 LBS TOTAL LIFETIME CO2 SEQUESTERED
LEMON SCENTED GUM (1) <i>CORYMBIA CITRIODORA</i>	15,806 LBS	(1) EXISTING TREES X 15,806 LBS LIFETIME ----- 15,806 LBS TOTAL LIFETIME CO2 SEQUESTERED
MALLET FLOWER (1) <i>SCHEFFLERA PUECKLERI</i>	8,924 LBS	(1) EXISTING TREES X 8,924 LBS LIFETIME ----- 8,924 LBS TOTAL LIFETIME CO2 SEQUESTERED
NORFOLK ISLAND PINE (1) <i>ARAUCARIA HETEROPHYLLA</i>	34,202 LBS	(1) EXISTING TREES X 34,202 LBS LIFETIME ----- 34,202 LBS TOTAL LIFETIME CO2 SEQUESTERED
SHAMEL ASH (1) <i>FRAXINUS UHDEI</i>	19,805 LBS	(1) EXISTING TREES X 19,805 LBS LIFETIME ----- 19,805 LBS TOTAL LIFETIME CO2 SEQUESTERED
SILK TREE (1) <i>ALBIZIA JULIBRISSIN</i>	3,189 LBS	(1) EXISTING TREES X 3,189 LBS LIFETIME ----- 3,189 LBS TOTAL LIFETIME CO2 SEQUESTERED
SILVER LEAF MAPLE (1) <i>ACER SACCHARINUM</i>	43,005 LBS	(1) EXISTING TREES X 43,005 LBS LIFETIME ----- 43,005 LBS TOTAL LIFETIME CO2 SEQUESTERED
SPOTTED GUM (1) <i>CORYMBIA MACULATA</i>	14,908 LBS	(1) EXISTING TREES X 14,908 LBS LIFETIME ----- 14,908 LBS TOTAL LIFETIME CO2 SEQUESTERED
TANGERINE (1) <i>CITRUS RETICULATA</i>	10,067 LBS	(1) EXISTING TREES X 10,067 LBS LIFETIME ----- 10,067 LBS TOTAL LIFETIME CO2 SEQUESTERED
WEeping FIG (1) <i>FICUS BENJAMINA</i>	14,398 LBS	(1) EXISTING TREES X 14,398 LBS LIFETIME ----- 14,398 LBS TOTAL LIFETIME CO2 SEQUESTERED
TOTAL PALMS AND TREES (240)		2,589,030 LBS TOTAL LIFETIME CO2 SEQUESTERED

Figure 2 –Lifetime Sequestration of Existing Trees and Palms to be Removed

PROPOSED TREES AT YEAR ONE			
	SIZE	ANNUAL CO2 SEQUESTERED PER TREE (POUNDS)	TOTAL ANNUAL CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
WHITE ALDER (9) <i>ALNUS RHOMBIFOLIA</i>	DBH: 4" SIZE: 15'H X 8'W	64 LBS	(9) PROPOSED TREES X 64 LBS ANNUAL ----- 576 LBS TOTAL ANNUAL CO2 SEQUESTERED
MANZANITA BIG BERRY (3) <i>ARCTOSTAPHYLOS GLAUCA</i>	DBH: 4" SIZE: 6'H X 6'W	85 LBS	(3) PROPOSED TREES X 85 LBS ANNUAL ----- 255 LBS TOTAL ANNUAL CO2 SEQUESTERED
VELVET ASH (64) <i>FRAXINUS VELUTINA CORIACEA</i>	DBH: 4" SIZE: 14'H X 7'W	54 LBS	(64) PROPOSED TREES X 54 LBS ANNUAL ----- 3,456 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOYON (116) <i>HETEROMELES ARBUTIFOLIA</i>	DBH: 4" SIZE: 6'H X 6'W	104 LBS	(116) PROPOSED TREES X 104 LBS ANNUAL ----- 12,064 LBS TOTAL ANNUAL CO2 SEQUESTERED
PACIFIC WAX MYRTLE (62) <i>MYRICA CALIFORNICA</i>	DBH: 4" SIZE: 6'H X 6'W	100 LBS	(62) PROPOSED TREES X 100LBS ANNUAL ----- 6,200 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA SYCAMORE (23) <i>PLATANUS RACEMOSA</i>	DBH: 4" SIZE: 15'H X 8'W	21 LBS	(23) PROPOSED TREES X 21 LBS ANNUAL ----- 483 LBS TOTAL ANNUAL CO2 SEQUESTERED
MEXICAN ELDERBERRY (8) <i>SAMBUCUS MEXICANA</i>	DBH: 4" SIZE: 7'H X 5'W	55 LBS	(8) PROPOSED TREES X 55 LBS ANNUAL ----- 440 LBS TOTAL ANNUAL CO2 SEQUESTERED
COAST LIVE OAK (55) <i>QUERCUS AGRIFOLIA</i>	DBH: 4" SIZE: 12'H X 7'W	49 LBS	(55) PROPOSED TREES X 49 LBS ANNUAL ----- 2,695 LBS TOTAL ANNUAL CO2 SEQUESTERED
ENGELMANN OAK (26) <i>QUERCUS ENGELMANNII</i>	DBH: 4" SIZE: 12'H X 6'W	108 LBS	(26) PROPOSED TREES X 108 LBS ANNUAL ----- 2,808 LBS TOTAL ANNUAL CO2 SEQUESTERED
VALLEY OAK (21) <i>QUERCUS LOBATA</i>	DBH: 4" SIZE: 14'H X 7'W	104 LBS	(21) PROPOSED TREES X 104 LBS ANNUAL ----- 2,184 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA LAUREL (6) <i>UMBELLULARIA CALIFORNICA</i>	DBH: 4" SIZE: 13'H X 7'W	80 LBS	(6) PROPOSED TREES X 80 LBS ANNUAL ----- 480 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOTAL TREES (393)			31,641 LBS TOTAL ANNUAL CO2 SEQUESTERED (YEAR ONE)

Figure 3 – Year 1 Sequestration of Project Trees

PROPOSED TREES AT YEAR TWO			
	SIZE	ANNUAL CO2 SEQUESTERED PER TREE (POUNDS)	TOTAL ANNUAL CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
WHITE ALDER (9) <i>ALNUS RHOMBIFOLIA</i>	DBH: 5.9" SIZE: 18'H X 11'W	90 LBS	(9) PROPOSED TREES X 90 LBS ANNUAL ----- 810 LBS TOTAL ANNUAL CO2 SEQUESTERED
MANZANITA BIG BERRY (3) <i>ARCTOSTAPHYLOS GLAUCA</i>	DBH: 5" SIZE: 7'H X 7'W	115 LBS	(3) PROPOSED TREES X 115 LBS ANNUAL ----- 345 LBS TOTAL ANNUAL CO2 SEQUESTERED
VELVET ASH (64) <i>FRAXINUS VELUTINA CORIACEA</i>	DBH: 5.4" SIZE: 16'H X 9'W	78 LBS	(64) PROPOSED TREES X 78 LBS ANNUAL ----- 4,992 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOYON (116) <i>HETEROMELES ARBUTIFOLIA</i>	DBH: 5" SIZE: 7'H X 7'W	141 LBS	(116) PROPOSED TREES X 141 LBS ANNUAL ----- 16,356 LBS TOTAL ANNUAL CO2 SEQUESTERED
PACIFIC WAX MYRTLE (62) <i>MYRICA CALIFORNICA</i>	DBH: 5" SIZE: 7'H X 7'W	133 LBS	(62) PROPOSED TREES X 133 LBS ANNUAL ----- 8,246 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA SYCAMORE (23) <i>PLATANUS RACEMOSA</i>	DBH: 5" SIZE: 17'H X 9'W	29 LBS	(23) PROPOSED TREES X 29 LBS ANNUAL ----- 667 LBS TOTAL ANNUAL CO2 SEQUESTERED
MEXICAN ELDERBERRY (8) <i>SAMBUCUS MEXICANA</i>	DBH: 5" SIZE: 9'H X 6'W	71 LBS	(8) PROPOSED TREES X 71 LBS ANNUAL ----- 568 LBS TOTAL ANNUAL CO2 SEQUESTERED
COAST LIVE OAK (55) <i>QUERCUS AGRIFOLIA</i>	DBH: 5" SIZE: 14'H X 9'W	66 LBS	(55) PROPOSED TREES X 66 LBS ANNUAL ----- 3,630 LBS TOTAL ANNUAL CO2 SEQUESTERED
ENGELMANN OAK (26) <i>QUERCUS ENGELMANNII</i>	DBH: 5.4" SIZE: 14'H X 8'W	143 LBS	(26) PROPOSED TREES X 143 LBS ANNUAL ----- 3,718 LBS TOTAL ANNUAL CO2 SEQUESTERED
VALLEY OAK (21) <i>QUERCUS LOBATA</i>	DBH: 5.9" SIZE: 16'H X 8'W	148 LBS	(21) PROPOSED TREES X 148 LBS ANNUAL ----- 3,108 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA LAUREL (6) <i>UMBELLULARIA CALIFORNICA</i>	DBH: 5.4" SIZE: 15'H X 9'W	120 LBS	(6) PROPOSED TREES X 120 LBS ANNUAL ----- 720 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOTAL TREES (393)			43,160 LBS TOTAL ANNUAL CO2 SEQUESTERED (YEAR TWO)

Figure 4 – Year 2 Sequestration of Project Trees

PROPOSED TREES AT YEAR FIVE			
	SIZE	ANNUAL CO2 SEQUESTERED PER TREE (POUNDS)	TOTAL ANNUAL CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
WHITE ALDER (9) <i>ALNUS RHOMBIFOLIA</i>	DBH: 8.7" SIZE: 30'H X 23'W	130 LBS	(9) PROPOSED TREES X 130 LBS ANNUAL ----- 1,170 LBS TOTAL ANNUAL CO2 SEQUESTERED
MANZANITA BIG BERRY (3) <i>ARCTOSTAPHYLOS GLAUCA</i>	DBH: 6.5" SIZE: 11'H X 11'W	163 LBS	(3) PROPOSED TREES X 163 LBS ANNUAL ----- 489 LBS TOTAL ANNUAL CO2 SEQUESTERED
VELVET ASH (64) <i>FRAXINUS VELUTINA CORIACEA</i>	DBH: 7.6" SIZE: 24'H X 27'W	117 LBS	(64) PROPOSED TREES X 117 LBS ANNUAL ----- 7,488 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOYON (116) <i>HETEROMELES ARBUTIFOLIA</i>	DBH: 8" SIZE: 11'H X 11'W	268 LBS	(116) PROPOSED TREES X 268 LBS ANNUAL ----- 31,088 LBS TOTAL ANNUAL CO2 SEQUESTERED
PACIFIC WAX MYRTLE (62) <i>MYRICA CALIFORNICA</i>	DBH: 8" SIZE: 11'H X 11'W	244 LBS	(62) PROPOSED TREES X 244 LBS ANNUAL ----- 15,128 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA SYCAMORE (23) <i>PLATANUS RACEMOSA</i>	DBH: 6.5" SIZE: 25'H X 13'W	41 LBS	(23) PROPOSED TREES X 41 LBS ANNUAL ----- 943 LBS TOTAL ANNUAL CO2 SEQUESTERED
MEXICAN ELDERBERRY (8) <i>SAMBUCUS MEXICANA</i>	DBH: 6.5" SIZE: 17'H X 10'W	97 LBS	(8) PROPOSED TREES X 97 LBS ANNUAL ----- 776 LBS TOTAL ANNUAL CO2 SEQUESTERED
COAST LIVE OAK (55) <i>QUERCUS AGRIFOLIA</i>	DBH: 6.5" SIZE: 22'H X 17'W	96 LBS	(55) PROPOSED TREES X 96 LBS ANNUAL ----- 5,280 LBS TOTAL ANNUAL CO2 SEQUESTERED
ENGELMANN OAK (26) <i>QUERCUS ENGELMANNII</i>	DBH: 7.6" SIZE: 22'H X 16'W	196 LBS	(26) PROPOSED TREES X 196 LBS ANNUAL ----- 5,096 LBS TOTAL ANNUAL CO2 SEQUESTERED
VALLEY OAK (21) <i>QUERCUS LOBATA</i>	DBH: 8.7" SIZE: 24'H X 12'W	214 LBS	(21) PROPOSED TREES X 214 LBS ANNUAL ----- 4,494 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA LAUREL (6) <i>UMBELLULARIA CALIFORNICA</i>	DBH: 7.6" SIZE: 23'H X 17'W	186 LBS	(6) PROPOSED TREES X 186 LBS ANNUAL ----- 1,116 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOTAL TREES (393)			73,068 LBS TOTAL ANNUAL CO2 SEQUESTERED (YEAR FIVE)

Figure 5 – Year 5 Sequestration of Project Trees

PROPOSED TREES AT YEAR TEN			
	SIZE	ANNUAL CO2 SEQUESTERED PER TREE (POUNDS)	TOTAL ANNUAL CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
WHITE ALDER (9) <i>ALNUS RHOMBIFOLIA</i>	DBH: 13.4" SIZE: 45'H X 38'W	197 LBS	(9) PROPOSED TREES X 197 LBS ANNUAL ----- 1,773 LBS TOTAL ANNUAL CO2 SEQUESTERED
MANZANITA BIG BERRY (3) <i>ARCTOSTAPHYLOS GLAUCA</i>	DBH: 9" SIZE: 16'H X 16'W	253 LBS	(3) PROPOSED TREES X 253 LBS ANNUAL ----- 759 LBS TOTAL ANNUAL CO2 SEQUESTERED
VELVET ASH (64) <i>FRAXINUS VELUTINA CORIACEA</i>	DBH: 13.4" SIZE: 34'H X 27'W	323 LBS	(64) PROPOSED TREES X 323 LBS ANNUAL ----- 20,672 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOYON (116) <i>HETEROMELES ARBUTIFOLIA</i>	DBH: 13" SIZE: 16'H X 16'W	448 LBS	(116) PROPOSED TREES X 448 LBS ANNUAL ----- 51,968 LBS TOTAL ANNUAL CO2 SEQUESTERED
PACIFIC WAX MYRTLE (62) <i>MYRICA CALIFORNICA</i>	DBH: 13" SIZE: 16'H X 16'W	470 LBS	(62) PROPOSED TREES X 470 LBS ANNUAL ----- 29,140 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA SYCAMORE (23) <i>PLATANUS RACEMOSA</i>	DBH: 9" SIZE: 35'H X 23'W	66 LBS	(23) PROPOSED TREES X 66 LBS ANNUAL ----- 1,518 LBS TOTAL ANNUAL CO2 SEQUESTERED
MEXICAN ELDERBERRY (8) <i>SAMBUCUS MEXICANA</i>	DBH: 9" SIZE: 27'H X 15'W	144 LBS	(8) PROPOSED TREES X 144 LBS ANNUAL ----- 1,152 LBS TOTAL ANNUAL CO2 SEQUESTERED
COAST LIVE OAK (55) <i>QUERCUS AGRIFOLIA</i>	DBH: 9" SIZE: 32'H X 27'W	152 LBS	(55) PROPOSED TREES X 152 LBS ANNUAL ----- 8,360 LBS TOTAL ANNUAL CO2 SEQUESTERED
ENGELMANN OAK (26) <i>QUERCUS ENGELMANNII</i>	DBH: 11.2" SIZE: 32'H X 26'W	282 LBS	(26) PROPOSED TREES X 282 LBS ANNUAL ----- 7,332 LBS TOTAL ANNUAL CO2 SEQUESTERED
VALLEY OAK (21) <i>QUERCUS LOBATA</i>	DBH: 13.4" SIZE: 34'H X 17'W	323 LBS	(21) PROPOSED TREES X 323 LBS ANNUAL ----- 6,783 LBS TOTAL ANNUAL CO2 SEQUESTERED
CALIFORNIA LAUREL (6) <i>UMBELLULARIA CALIFORNICA</i>	DBH: 11.2" SIZE: 33'H X 27'W	313 LBS	(6) PROPOSED TREES X 313 LBS ANNUAL ----- 1,878 LBS TOTAL ANNUAL CO2 SEQUESTERED
TOTAL TREES (393)			131,335 LBS TOTAL ANNUAL CO2 SEQUESTERED (YEAR TEN)

Figure 6 – Year 10 Sequestration of Project Trees

PROPOSED TREES (LIFETIME)		
	LIFETIME CO2 SEQUESTERED PER TREE (POUNDS)	TOTAL LIFETIME CO2 SEQUESTERED EXISTING TREE/PALM EXAMPLES ON SITE
WHITE ALDER (9) <i>ALNUS RHOMBIFOLIA</i>	23,162 LBS	(9) PROPOSED TREES X 23,162 LBS LIFETIME ----- 208,458 LBS TOTAL LIFETIME CO2 SEQUESTERED
MANZANITA BIG BERRY (3) <i>ARCTOSTAPHYLOS GLAUCA</i>	10,715 LBS	(3) PROPOSED TREES X 10,715 LBS LIFETIME ----- 32,145 LBS TOTAL LIFETIME CO2 SEQUESTERED
VELVET ASH (64) <i>FRAXINUS VELUTINA CORIACEA</i>	19,220 LBS	(64) PROPOSED TREES X 19,220 LBS LIFETIME ----- 1,230,080 LBS TOTAL LIFETIME CO2 SEQUESTERED
TOYON (116) <i>HETEROMELES ARBUTIFOLIA</i>	9,702 LBS	(116) PROPOSED TREES X 9,702 LBS LIFETIME ----- 1,125,432 LBS TOTAL LIFETIME CO2 SEQUESTERED
PACIFIC WAX MYRTLE (62) <i>MYRICA CALIFORNICA</i>	11,484 LBS	(62) PROPOSED TREES X 11,484 LBS LIFETIME ----- 712,008 LBS TOTAL LIFETIME CO2 SEQUESTERED
CALIFORNIA SYCAMORE (23) <i>PLATANUS RACEMOSA</i>	27,682 LBS	(23) PROPOSED TREES X 27,682 LBS LIFETIME ----- 636,686 LBS TOTAL LIFETIME CO2 SEQUESTERED
MEXICAN ELDERBERRY (8) <i>SAMBUCUS MEXICANA</i>	5,789 LBS	(8) PROPOSED TREES X 5,789 LBS LIFETIME ----- 46,312 LBS TOTAL LIFETIME CO2 SEQUESTERED
COAST LIVE OAK (55) <i>QUERCUS AGRIFOLIA</i>	52,970 LBS	(55) PROPOSED TREES X 52,970 LBS LIFETIME ----- 2,913,350 LBS TOTAL LIFETIME CO2 SEQUESTERED
ENGELMANN OAK (26) <i>QUERCUS ENGELMANNII</i>	22,415 LBS	(26) PROPOSED TREES X 22,415 LBS LIFETIME ----- 582,790 LBS TOTAL LIFETIME CO2 SEQUESTERED
VALLEY OAK (21) <i>QUERCUS LOBATA</i>	38,006 LBS	(21) PROPOSED TREES X 38,006 LBS LIFETIME ----- 798,126 LBS TOTAL LIFETIME CO2 SEQUESTERED
CALIFORNIA LAUREL (6) <i>UMBELLULARIA CALIFORNICA</i>	64,548 LBS	(6) PROPOSED TREES X 64,548 LBS LIFETIME ----- 387,288 LBS TOTAL LIFETIME CO2 SEQUESTERED
TOTAL TREES (393)		8,672,675 LBS TOTAL LIFETIME CO2 SEQUESTERED

Figure 7 – Lifetime Sequestration of Project Trees



Figure 8 – Existing Canopy Coverage



Figure 9 – Year 1 Canopy Coverage of Project Trees

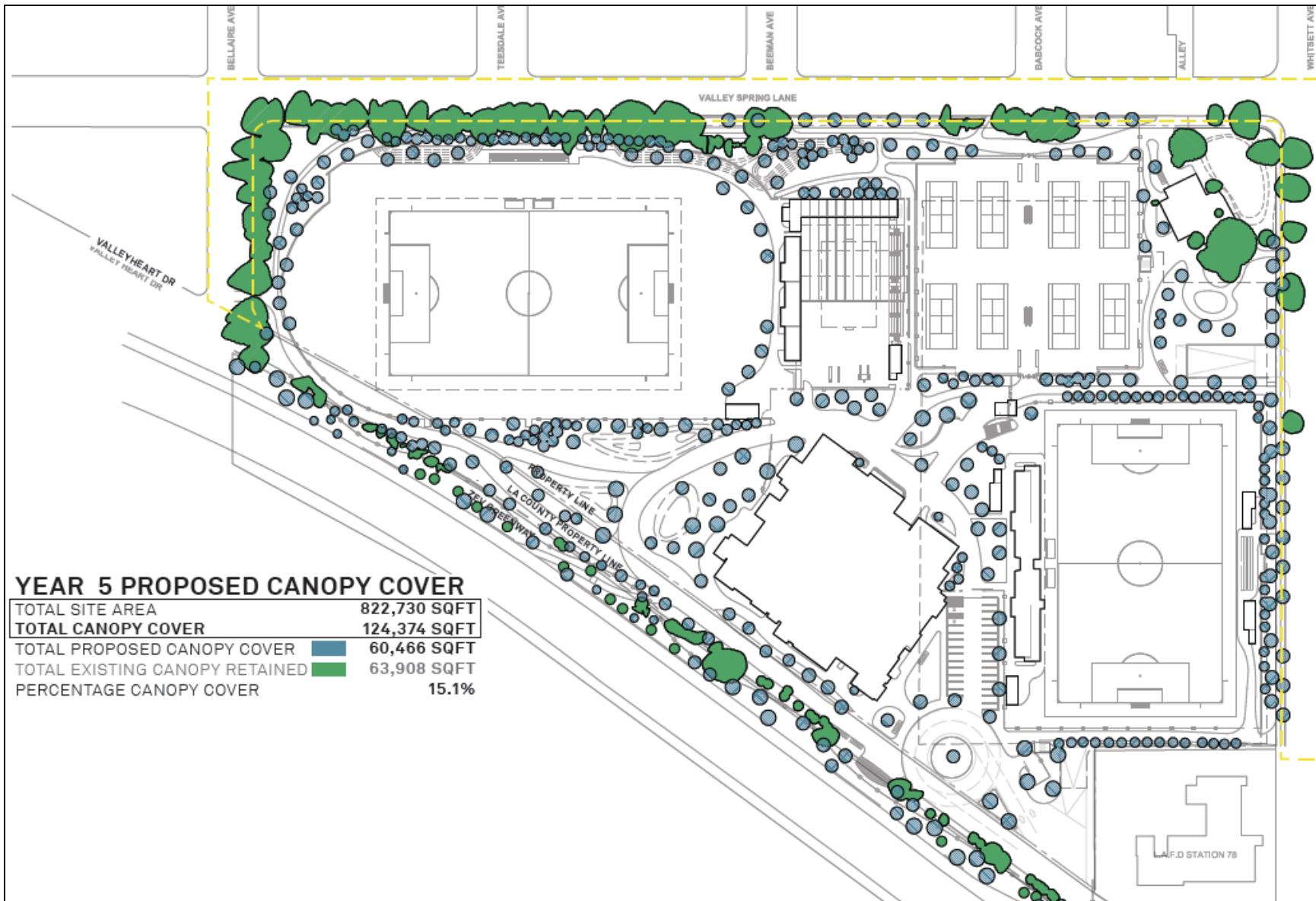


Figure 10 – Year 5 Canopy Coverage of Project Trees



Figure 11 - Year 10 Canopy Coverage of Project Trees

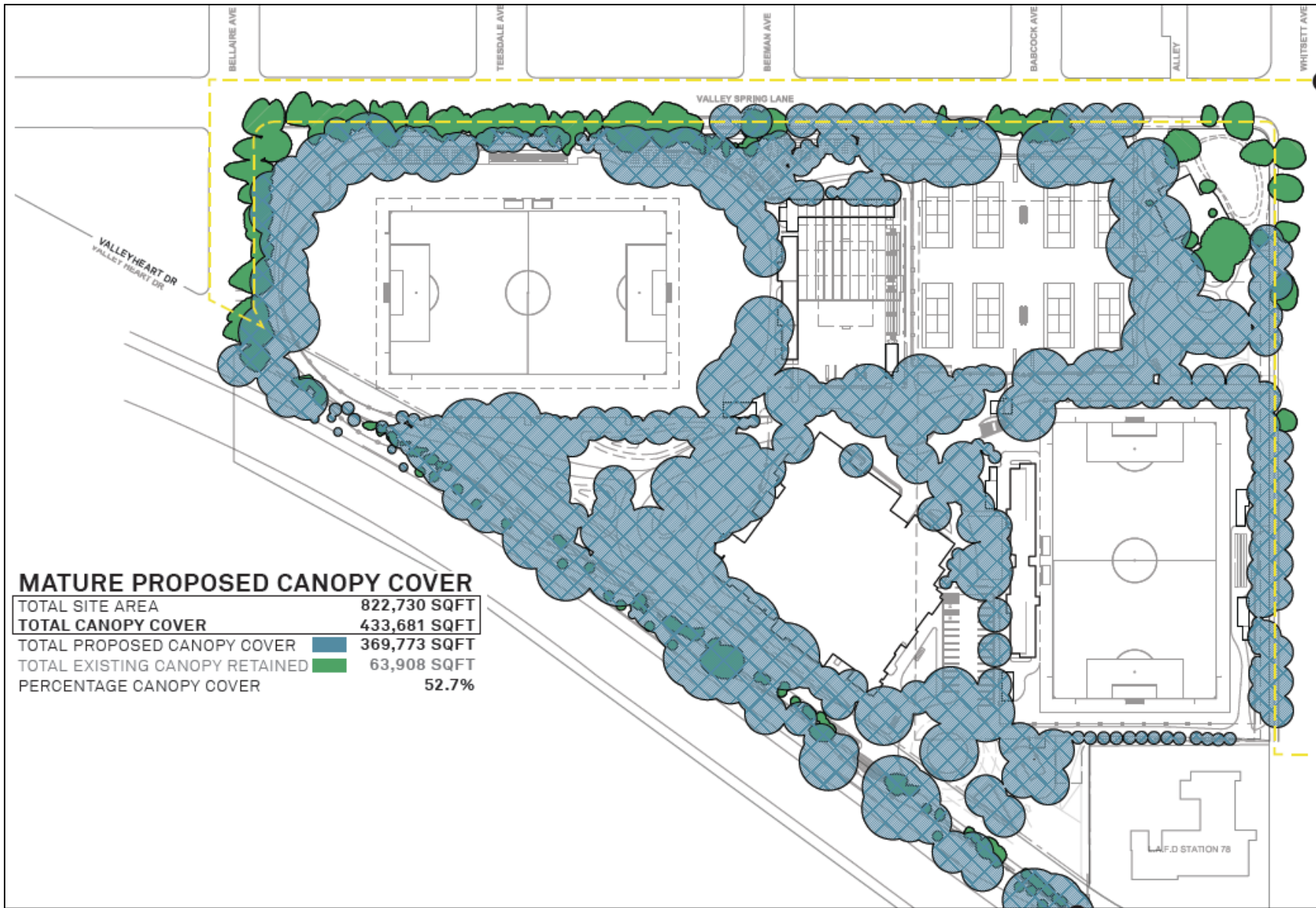


Figure 12 - Year 25 Canopy Coverage of Project Trees

Appendix A – Assessed Tree Dispositions
Carlberg Associates Tree Report, October 2020

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
1	deodar cedar	<i>Cedrus deodara</i>	B			X	1	0	
2	incense cedar	<i>Calocedrus decurrens</i>	B			X	1	0	
3	deodar cedar	<i>Cedrus deodara</i>	B+			X	1	0	
4	incense cedar	<i>Calocedrus decurrens</i>	B			X	1	0	
5	olive	<i>Olea europaea</i>	C			X	1	0	POOR H/S; health and structure will continue to decline
6	Spanish dagger	<i>Yucca gloriosa</i>	C			X	1	0	next to bldg.
7	deodar cedar	<i>Cedrus deodara</i>	A-			X	1	0	next to bldg.
8	Australian brush cherry	<i>Syzygium paniculatum</i>	B+			X	1	0	next to bldg.
9	deodar cedar	<i>Cedrus deodara</i>	B+	X	tennis court (TC)		1	0	
10	deodar cedar	<i>Cedrus deodara</i>	C	X	hardscape		1	0	
11	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
12	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
13	Victorian box	<i>Pittosporum undulatum</i>	A			X	1	0	
14	aleppo pine	<i>Pinus halepensis</i>	C			X	0	1	
15	blue gum	<i>Eucalyptus globulus</i>	B-			X	0	1	
16	blue gum	<i>Eucalyptus globulus</i>	C-			X	0	1	
17	blue gum	<i>Eucalyptus globulus</i>	B-			X	0	1	
18	blue gum	<i>Eucalyptus globulus</i>	B			X	0	1	
19	blue gum	<i>Eucalyptus globulus</i>	C-			X	0	1	
20	blue gum	<i>Eucalyptus globulus</i>	F	X	DEAD		0	1	
21	blue gum	<i>Eucalyptus globulus</i>	D			X	0	1	
22	blue gum	<i>Eucalyptus globulus</i>	D			X	0	1	
23	blue gum	<i>Eucalyptus globulus</i>	C-			X	0	1	
24	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
25	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
26	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
27	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
28	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
29	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
30	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
31	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
32	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
33	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
34	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		1	0	
35	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
36	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
37	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
38	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
39	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
40	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
41	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
42	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
43	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
44	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
45	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
46	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
47	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
48	olive	<i>Olea europaea</i>	C			X	0	1	POOR H/S - health and structure will continue to decline
49	olive	<i>Olea europaea</i>	D			X	0	1	POOR H/S - health and structure will continue to decline
50	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		1	0	
51	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		1	0	
52	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		1	0	
53	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
54	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
55	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	CITY		0	1	
56	olive	<i>Olea europaea</i>	F	X	DEAD		0	1	
57	olive	<i>Olea europaea</i>	B-			X	0	1	POOR H/S - health will continue to decline
58	blue gum	<i>Eucalyptus globulus</i>	B			X	0	1	
59	olive	<i>Olea europaea</i>	F	X	DEAD		0	1	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
60	blue gum	<i>Eucalyptus globulus</i>	B			X	0	1	
61	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
62	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
63	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
64	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
65	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
66	blue gum	<i>Eucalyptus globulus</i>	F	X	DEAD		0	1	
67	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
68	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
69	blue gum	<i>Eucalyptus globulus</i>	C-			X	0	1	
70	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
71	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
72	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
73	blue gum	<i>Eucalyptus globulus</i>	C			X	0	1	
74	flooded gum	<i>Eucalyptus rudis</i>	C			X	0	1	
75	blue gum	<i>Eucalyptus globulus</i>	C-			X	0	1	
76	blue gum	<i>Eucalyptus globulus</i>	C			X	1	0	
77	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
78	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
79	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
80	Canary Island pine	<i>Pinus canariensis</i>	B			X	0	1	
81	Canary Island pine	<i>Pinus canariensis</i>	B			X	0	1	
82	Canary Island pine	<i>Pinus canariensis</i>	B			X	0	1	
83	aleppo pine	<i>Pinus halepensis</i>	C			X	0	1	
84	aleppo pine	<i>Pinus halepensis</i>	C			X	0	1	
85	Canary Island pine	<i>Pinus canariensis</i>	C			X	0	1	
86	Canary Island pine	<i>Pinus canariensis</i>	C			X	0	1	
87	Canary Island pine	<i>Pinus canariensis</i>	B			X	0	1	
88	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
89	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
90	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
91	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
92	olive	<i>Olea europaea</i>	C			X	0	1	
93	olive	<i>Olea europaea</i>	C			X	1	0	
94	aleppo pine	<i>Pinus halepensis</i>	B+			X	0	1	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
95	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
96	aleppo pine	<i>Pinus halepensis</i>	B-			X	0	1	
97	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
98	aleppo pine	<i>Pinus halepensis</i>	B			X	1	0	
99	Chinese elm	<i>Ulmus parvifolia</i>	B			X	1	0	
100	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
101	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
102	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
103	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
104	beefwood	<i>Casuarina cunninghamiana</i>	C	X	grading		1	0	
105	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
106	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
107	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
108	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
109	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
110	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
111	Canary Island pine	<i>Pinus canariensis</i>	B+			X	1	0	
112	aleppo pine	<i>Pinus halepensis</i>	C			X	1	0	
113	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
114	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
115	Mexican fan palm	<i>Washingtonia robusta</i>	A-	X	grading		1	0	
116	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
117	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
118	aleppo pine	<i>Pinus halepensis</i>	B+	X	grading		1	0	
119	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
120	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
121	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
122	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
123	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
124	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
125	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
126	camphor	<i>Cinnamomum camphora</i>	B	X	grading		1	0	
127	jacaranda	<i>Jacaranda mimosifolia</i>	C	X	grading		1	0	
128	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
129	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
130	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
131	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
132	Italian cypress	<i>Cupressus sempervirens</i>	A	X	grading		1	0	
133	camphor	<i>Cinnamomum camphora</i>	B	X	grading		1	0	
134	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
135	olive	<i>Olea europaea</i>	D	X	grading		1	0	
136	Norfolk Island pine	<i>Araucaria heterophylla</i>	B	X	grading		1	0	
137	olive	<i>Olea europaea</i>	D	X	grading		1	0	
138	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
139	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
140	Mexican fan palm	<i>Washingtonia robusta</i>	B	X	grading		1	0	
141	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
142	Australian brush cherry	<i>Syzygium paniculatum</i>	A-			X	1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
143	Australian brush cherry	<i>Syzygium paniculatum</i>	A-			X	1	0	
144	Australian brush cherry	<i>Syzygium paniculatum</i>	A-			X	1	0	
145	Australian brush cherry	<i>Syzygium paniculatum</i>	A-			X	1	0	
146	Australian brush cherry	<i>Syzygium paniculatum</i>	A-			X	1	0	
147	Italian cypress	<i>Cupressus sempervirens</i>	A			X	1	0	
148	Italian cypress	<i>Cupressus sempervirens</i>	A			X	1	0	
149	Italian cypress	<i>Cupressus sempervirens</i>	A			X	1	0	
150	blue gum	<i>Eucalyptus globulus</i>	B			X	1	0	
151	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
152	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
153	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
154	Hollywood juniper	<i>Juniperus chinensis</i> 'Torulosa'	B	X	grading		1	0	
155	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
156	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
157	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
158	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
159	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
160	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
161	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	TC/City		1	0	
162	aleppo pine	<i>Pinus halepensis</i>	B			X	1	0	
163	aleppo pine	<i>Pinus halepensis</i>	B			X	1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
164	deodar cedar	<i>Cedrus deodara</i>	D			X	1	0	
165	deodar cedar	<i>Cedrus deodara</i>	D			X	1	0	
166	deodar cedar	<i>Cedrus deodara</i>	B	X	grading		1	0	
167	Arizona cypress	<i>Cupressus arizonica</i>	B-	X	grading		1	0	
168	Arizona cypress	<i>Cupressus arizonica</i>	B-	X	grading		1	0	
169	spotted gum	<i>Corymbia maculata</i>	B	X	grading		1	0	
170	Chinese sweetgum	<i>Liquidambar formosana</i>	B	X	grading		1	0	
171	silver leaf maple	<i>Acer saccharinum</i>	B	X	grading		1	0	
172	Chinese sweetgum	<i>Liquidambar formosana</i>	F	X	grading		1	0	
173	camphor	<i>Cinnamomum camphora</i>	B	X	grading		1	0	
174	Afghan pine	<i>Pinus brutia</i> var. 'eldarica'	B	X	grading		1	0	
175	evergreen pear	<i>Pyrus kawakamii</i>	B	X	grading		1	0	
176	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
177	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
178	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
179	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
180	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
181	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
182	Indian laurel fig	<i>Ficus microcarpa</i>	B	X	grading		1	0	
183	Indian laurel fig	<i>Ficus microcarpa</i>	B	X	grading		1	0	
184	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
185	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
186	olive	<i>Olea europaea</i>	C-	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
187	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
188	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
189	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
190	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
191	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
192	aleppo pine	<i>Pinus halepensis</i>	F	X	grading		1	0	
193	coastal redwood	<i>Sequoia sempervirens</i>	C	X	grading		1	0	
194	coastal redwood	<i>Sequoia sempervirens</i>	C	X	grading		1	0	
195	coastal redwood	<i>Sequoia sempervirens</i>	C	X	grading		1	0	
196	coastal redwood	<i>Sequoia sempervirens</i>	C	X	grading		1	0	
197	coastal redwood	<i>Sequoia sempervirens</i>	F	X	grading		1	0	
198	coastal redwood	<i>Sequoia sempervirens</i>	F	X	grading		1	0	
199	beefwood	<i>Casuarina cunninghamiana</i>	B	X	grading		1	0	
200	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
201	blue gum	<i>Eucalyptus globulus</i>	B	X	grading		1	0	
202	American sweetgum	<i>Liquidambar styraciflua</i>	B	X	grading		1	0	
203	silk tree	<i>Albizia julibrissin</i>	B-	X	grading		1	0	
204	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
205	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
206	Canary Island pine	<i>Pinus canariensis</i>	B-	X	grading		1	0	
207	Canary Island pine	<i>Pinus canariensis</i>	B	X	grading		1	0	
208	Canary Island pine	<i>Pinus canariensis</i>	C	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
209	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
210	camphor	<i>Cinnamomum camphora</i>	C	X	grading		1	0	
211	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
212	lemon scented gum	<i>Corymbia citriodora</i>	B	X	grading		1	0	
213	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
214	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
215	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
216	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
217	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
218	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
219	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
220	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
221	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
222	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
223	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
224	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
225	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
226	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
227	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
228	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
229	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
230	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
231	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
232	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
233	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
234	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
235	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
236	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
237	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
238	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
239	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
240	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
241	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
242	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
243	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
244	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
245	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
246	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
247	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
248	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
249	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
250	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
251	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
252	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
253	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
254	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
255	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
256	Indian laurel fig	<i>Ficus microcarpa</i>	A	X	grading		1	0	
257	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
258	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
259	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
260	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
261	aleppo pine	<i>Pinus halepensis</i>	C-	X	grading		1	0	
262	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
263	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
264	windmill palm	<i>Trachycarpus fortunei</i>	A	X	grading		1	0	
265	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
266	American sweetgum	<i>Liquidambar styraciflua</i>	B-	X	grading		1	0	
267	American sweetgum	<i>Liquidambar styraciflua</i>	B-	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
268	American sweetgum	<i>Liquidambar styraciflua</i>	B-	X	grading		1	0	
269	American sweetgum	<i>Liquidambar styraciflua</i>	B-	X	grading		1	0	
270	American sweetgum	<i>Liquidambar styraciflua</i>	B-	X	grading		1	0	
271	coastal redwood	<i>Sequoia sempervirens</i>	B	X	grading		1	0	
272	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
273	American sweetgum	<i>Liquidambar styraciflua</i>	C	X	grading		1	0	
274	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
275	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
276	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
277	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
278	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
279	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
280	tangerine	<i>Citrus reticulata</i>	A	X	grading		1	0	
281	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
282	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
283	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
284	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
285	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
286	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
287	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
288	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
289	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
290	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
291	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
292	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
293	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
294	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
295	Indian laurel fig	<i>Ficus microcarpa</i>	A	X	grading		1	0	
296	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
297	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
298	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	leased easement area - no grading
299	aleppo pine	<i>Pinus halepensis</i>	B	X	grading		1	0	
300	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
301	navel orange	<i>Citrus sinensis</i>	A			X	1	0	
302	Shamel ash	<i>Fraxinus uhdei</i>	C	X	grading		1	0	
303	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
304	aleppo pine	<i>Pinus halepensis</i>	C	X	grading		1	0	
305	olive	<i>Olea europaea</i>	C	X	grading		1	0	
306	deodar cedar	<i>Cedrus deodara</i>	B			X	1	0	
307	weeping fig, variegated	<i>Ficus benjamina, variegata</i>	A			X	1	0	
308	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
309	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
310	weeping fig	<i>Ficus benjamina</i>	B-	X	grading		1	0	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
311	mallet flower	<i>Schefflera pueckleri</i>	B+	X	grading		1	0	
312	blue gum	<i>Eucalyptus globulus</i>	D	X	grading		1	0	
313	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
314	blue gum	<i>Eucalyptus globulus</i>	D	X	grading		1	0	
315	blue gum	<i>Eucalyptus globulus</i>	C	X	grading		1	0	
316	blue gum	<i>Eucalyptus globulus</i>	D	X	grading		1	0	
OS317	blue gum	<i>Eucalyptus globulus</i>	D	X	grading		0	1	get permission from neighbor - off-site tree - D rated tree - not worth saving
318	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
319	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
320	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	grading		1	0	
321	Chinese elm	<i>Ulmus parvifolia</i>	B			X	0	1	
322	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
323	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
324	aleppo pine	<i>Pinus halepensis</i>	B			X	0	1	
325	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
326	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
327	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
328	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
329	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
330	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
331	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
332	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
333	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
334	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
335	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
336	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
337	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
338	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
339	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
340	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
341	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
342	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	in easement areas
343	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	in easement areas
344	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	in easement areas
345	Chinese elm	<i>Ulmus parvifolia</i>	B			X	0	1	in easement areas
346	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
347	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
348	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
349	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
350	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
351	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	in easement areas
352	Canary Island pine	<i>Pinus canariensis</i>	C			X	1	0	
353	aleppo pine	<i>Pinus halepensis</i>	C			X	0	1	
354	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
355	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
356	Mexican fan palm	<i>Washingtonia robusta</i>	A	X	road		1	0	
357	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
358	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
359	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
360	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
361	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
362	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
363	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
364	tree of heaven	<i>Ailanthus altissima</i>	B			X	0	1	invasive
365	Spanish dagger	<i>Yucca gloriosa</i>	B			X	1	0	
366	Spanish dagger	<i>Yucca gloriosa</i>	B			X	1	0	
367	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
368	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	

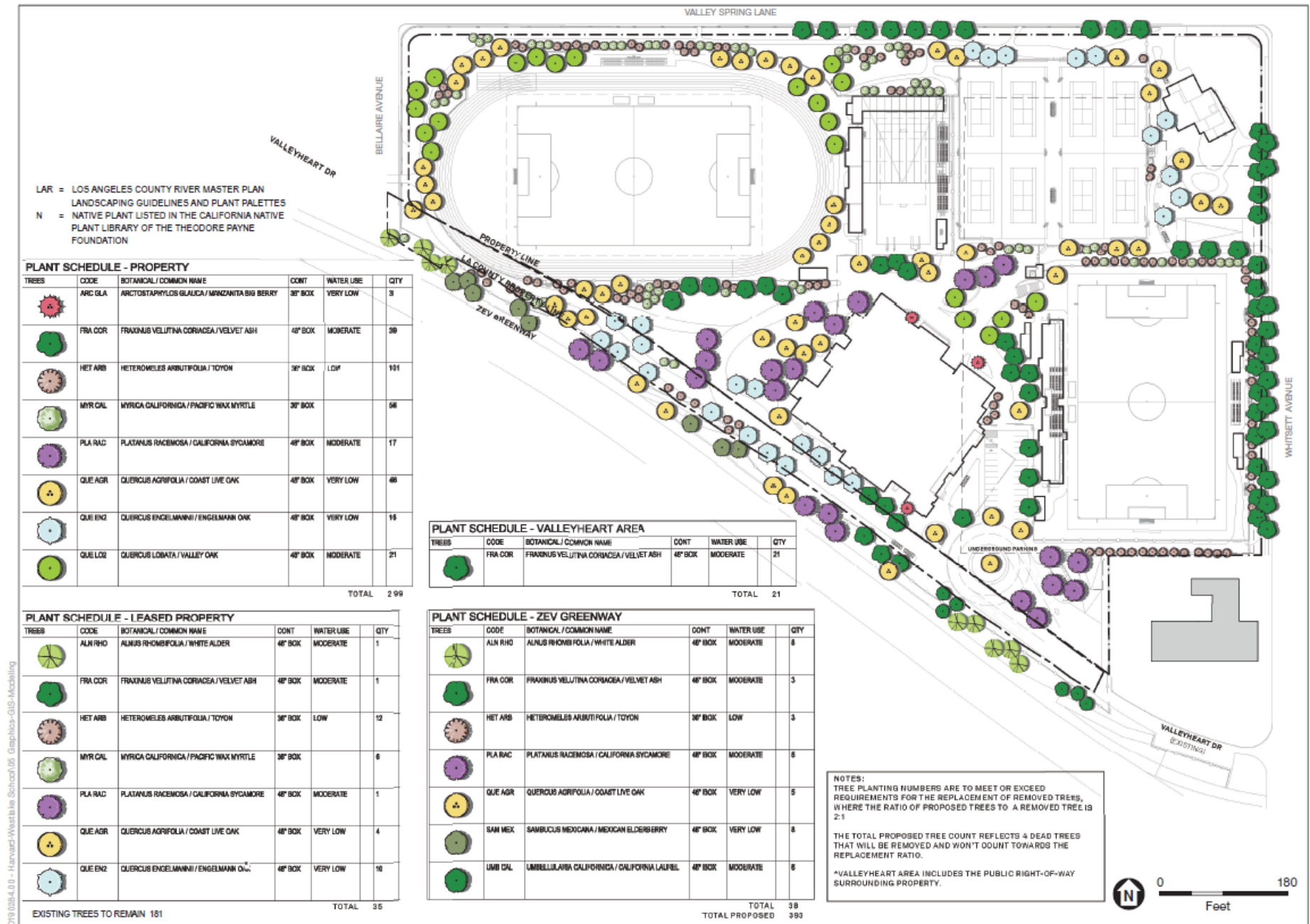
Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
369	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
370	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	1	0	
371	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
372	Spanish dagger	<i>Yucca gloriosa</i>	B			X	0	1	
373	Spanish dagger	<i>Yucca gloriosa</i>	B			X	0	1	
374	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
375	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
376	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
377	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
378	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
379	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
380	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
381	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
382	Mexican fan palm	<i>Washingtonia robusta</i>	A			X	0	1	
383	coast live oak	<i>Quercus agrifolia</i>	A			X	0	1	
ST 384	Southern magnolia	<i>Magnolia grandiflora</i>	C			X	0	1	
ST 385	Southern magnolia	<i>Magnolia grandiflora</i>	B			X	0	1	
ST 386	American sweetgum	<i>Liquidambar styraciflua</i>	B			X	0	1	
ST 387	American sweetgum	<i>Liquidambar styraciflua</i>	B			X	0	1	

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
ST 388	olive	<i>Olea europaea</i>	B			X	0	1	
ST 389	American sweetgum	<i>Liquidambar styraciflua</i>	B			X	0	1	
ST 390	American sweetgum	<i>Liquidambar styraciflua</i>	B	X	NEW DRIVE		0	1	this tree is protected & needs a permit from city for removal
ST 391	American sweetgum	<i>Liquidambar styraciflua</i>	B			X	0	1	
R-A	valley oak	<i>Quercus lobata</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-B	valley oak	<i>Quercus lobata</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-C	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-D	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-E	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-F	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-G	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-H	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-I	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
R-J	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-K	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-L	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-M	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-N	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-O	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-P	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-Q	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-R	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-S	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS
R-T	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-FEET FROM TRUNKS

Tag Number	Common Name	Botanic Name	Overall Grade	Remove	Removal Reason	Preserve	"On-site"	"Off-site"	Notes
R-U	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-V	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-W	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-X	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-Y	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-Z	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-AA	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-BB	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-CC	California sycamore	<i>Platanus racemosa</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
R-DD	coast live oak	<i>Quercus agrifolia</i>				X	0	1	KEEP NEW FENCE MINIMUM 6-Feet FROM TRUNKS
TOTALS:							258	163	

Appendix B – River Park Tree Planting Plan



SOURCE: Studio-MLA, 2020

Harvard-Westlake River Park Project