DOCKETED	
Docket Number:	19-SPPE-05
Project Title:	Mission College Data Center SPPE
TN #:	232246
Document Title:	MCBGF Response to CEC Data Request Set 2, (60-63)
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	2/27/2020 12:10:18 PM
Docketed Date:	2/27/2020

RESPONSE TO CEC STAFF DATA REQUEST SET 2 (60-63)

Mission College Backup Generating Facility (19-SPPE-05)

SUBMITTED TO: CALIFORNIA ENERGY COMMISSION

SUBMITTED BY: Oppidan Investment Company

February 2020



INTRODUCTION

Attached are Oppidan Investment Company's (Oppidan) responses to California Energy Commission (CEC) Staff Data Request Set No. 2 (60-63) for the Mission College Backup Generation Facility (MCBGF) Application for Small Power Plant Exemption (SPPE) (19-SPPE-05). Staff issued Data Request Set No. 2 (60-63) on February 21, 2020 as an attachment to its Motion to Extend the Deadline for Discovery (TN 232214).

The Data Responses are grouped by individual discipline or topic area. Within each discipline area, the responses are presented in the same order as Staff presented them and are keyed to the Data Request numbers (60-63). Additional tables, figures, or documents submitted in response to a data request (e.g., supporting data, stand-alone documents such as plans, folding graphics, etc.) are found at the end the data responses and are not sequentially page-numbered consistently with the remainder of this document, although they may have their own internal page numbering system.

For context, the text of the Background and Data Request precede each Data Response.

GENERAL OBJECTIONS

Oppidan objects to all data requests that require analysis beyond which is necessary to comply with the California Environmental Quality Act (CEQA) or which requires Oppidan to provide data that is in the control of third parties and not reasonably available to Oppidan. Notwithstanding this objection, Oppidan has worked diligently to provide these responses swiftly to allow the CEC Staff to prepare the Initial Study/Mitigated Negative Declaration (IS/MND).

BIOLOGICAL RESOURCES

60. In its response to Data Request 27, the applicant stated the following:

"The City issued demolition and tree removal permits for the site on 1/20/2020, and tree removal commenced on 1/20/2020. The arborist report in Appendix C of the application was relied upon by the City to determine required tree replacement ratios and fees associated with the tree removal permits and therefore is still applicable to the MCDC."

Staff would like to confirm the number of trees removed, and the number of trees thus expected to be replaced based on the City of Santa Clara's policies outlined in its General Plan. Also, please specify if there were any trees removed that border San Tomas Aquino Creek. If so, please provide details as to the number and species of tree.

RESPONSE TO DATA REQUEST 60

The following table shows the trees to be removed, trees to be preserved, and trees proposed to be planted from the current plan.

Existing and Proposed Tree Counts				
	Phase I	Phase II	Proposed Trees in 36-inch Box	
Trees To Remove	168	20	190	
Trees To Preserve	55	8	46	

Attachment BIO DR-60 includes the Updated Tree Inventory Plan, updated Arborist Report and Landscaping Plan. The trees removed near the border of San Tomas Aquino Creek are shown on the plan as tree # 37, 38, 68-70, 82, and 99 – 109 and are identified in the updated Arborist Report. The Landscaping Plan incorporates the amount and location of proposed trees as identified in the table above. Such replacement complies with City Code.

61. In its response to Data Request 28, the applicant stated the following:

"The entirety of the project site consists of developed areas. As described in the adopted 2018 MND and subsequent SPPE Application, special

status plant and wildlife species are not present on the highly urbanized project site, although raptors (birds of prey) could use the trees on the site for nesting or as a roost. The 2018 MND required completion of a nesting bird survey prior to any construction activities or tree removal on the site. As described in Response to Data Request 27, tree removal on the site commenced in 1/20/2020. A nesting bird survey was completed in January 2020 and is attached to these responses as Attachment BIO DR-28. No additional surveys have been completed nor are required."

The ornithologist report included in the data responses clearly stated that no nesting raptors were present onsite. However, it is typical, within such a report, that any other bird species observed are noted during the survey and listed in the report. Please indicate if any other bird species were observed, and if so, provide a species list.

RESPONSE TO DATA REQUEST 61

Attachment BIO DR-61 includes email confirmation from Harvey Ecology responsive to this request.

CULTURAL RESOURCES

62. In its response to Data Requests 30 and 31, the applicant stated that the data center buildings would be supported on auger cast foundation piles drilled to about 30 feet below the new base elevation of the project site.

Staff has three follow-up questions:

- a) What is the expected diameter of the foundation piles? [A range is acceptable.]
- b) Approximately how many foundation piles would be needed to support each building?
- c) Is the spacing pattern of the foundation piles indicated on any of the plans submitted with the application or data responses?

RESPONSE TO DATA REQUEST 62

- a) The foundation piles expected diameter will be 16 inches.
- b) The number of foundation piles, including those at the generator yards, is provided in the table below:

	# of piles
Phase I	2282
Phase II	1710
TOTAL	3992

c) Please see Attachment CUL DR-62 which includes the foundation plan for the project.

TRANSMISSION SYSTEM INTERCONNECTION

63. In its response to Data Request 54, the applicant stated that "[t]he MCDC will be interconnected to the SVP North Loop."

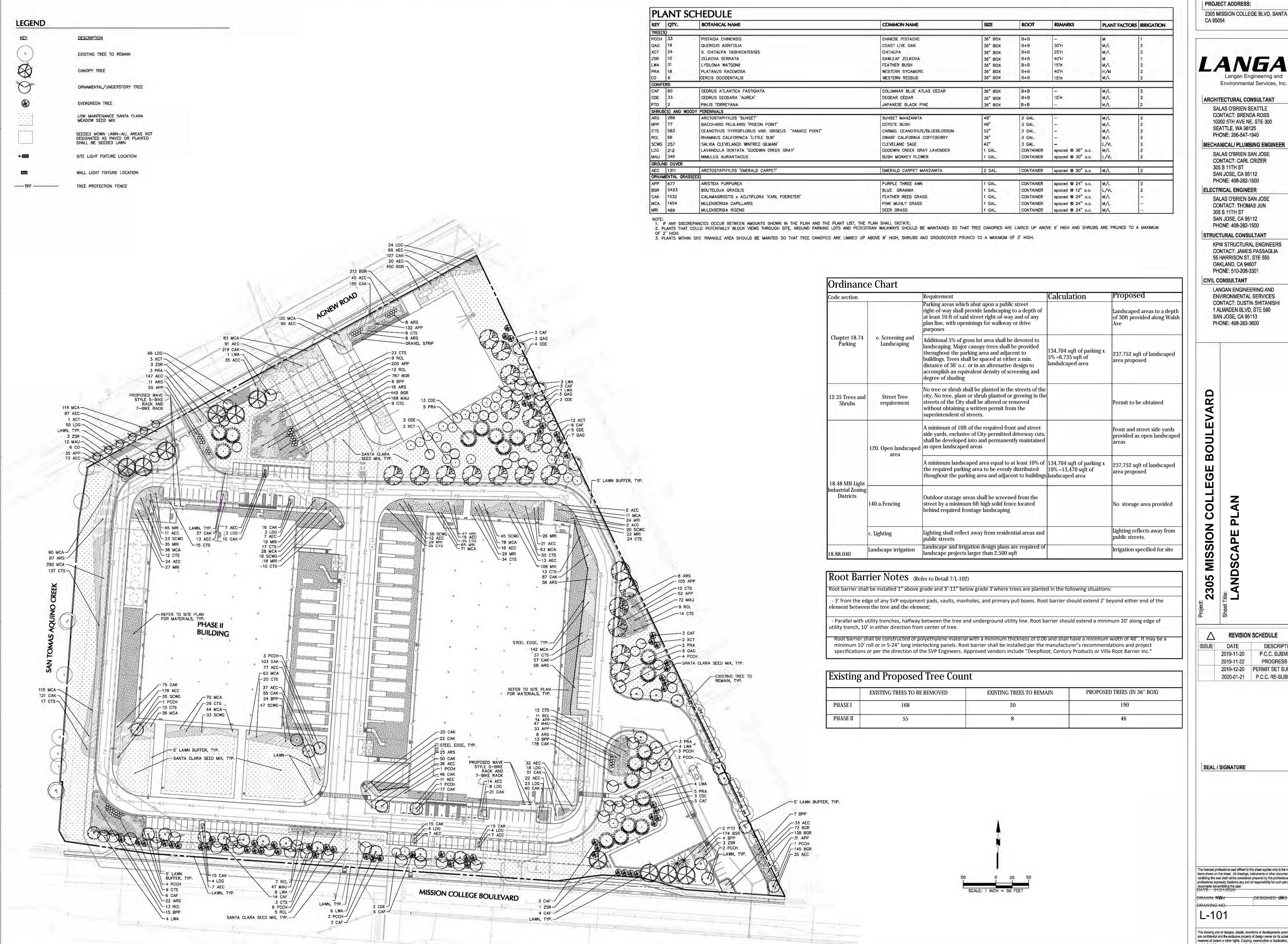
According to the SVP Transmission Overview available to staff, there is no North Loop. Please clarify which loop the MCDC would be interconnected to.

RESPONSE TO DATA REQUEST 63

The MCDC will be interconnected to the SVP Northeast Loop.

Attachment BIO DR-60

Updated Tree Inventory Plan, Updated Arborist Report, and Landscaping Plan



2305 MISSION COLLEGE BLVD, SANTA CLARA,

LANGAN

ARCHITECTURAL CONSULTANT

SALAS O'BRIEN SEATTLE CONTACT: BRENDA ROSS 10202 5TH AVE NE, STE 300 SEATTLE, WA 98125

MECHANICAL/ PLUMBING ENGINEER

SALAS O'BRIEN SAN JOSE CONTACT: CARL CRIZER SAN JOSE, CA 95112

SALAS O'BRIEN SAN JOSE CONTACT: THOMAS JUN SAN JOSE, CA 95112

KPW STRUCTURAL ENGINEERS CONTACT: JAMES PASSAGLIA

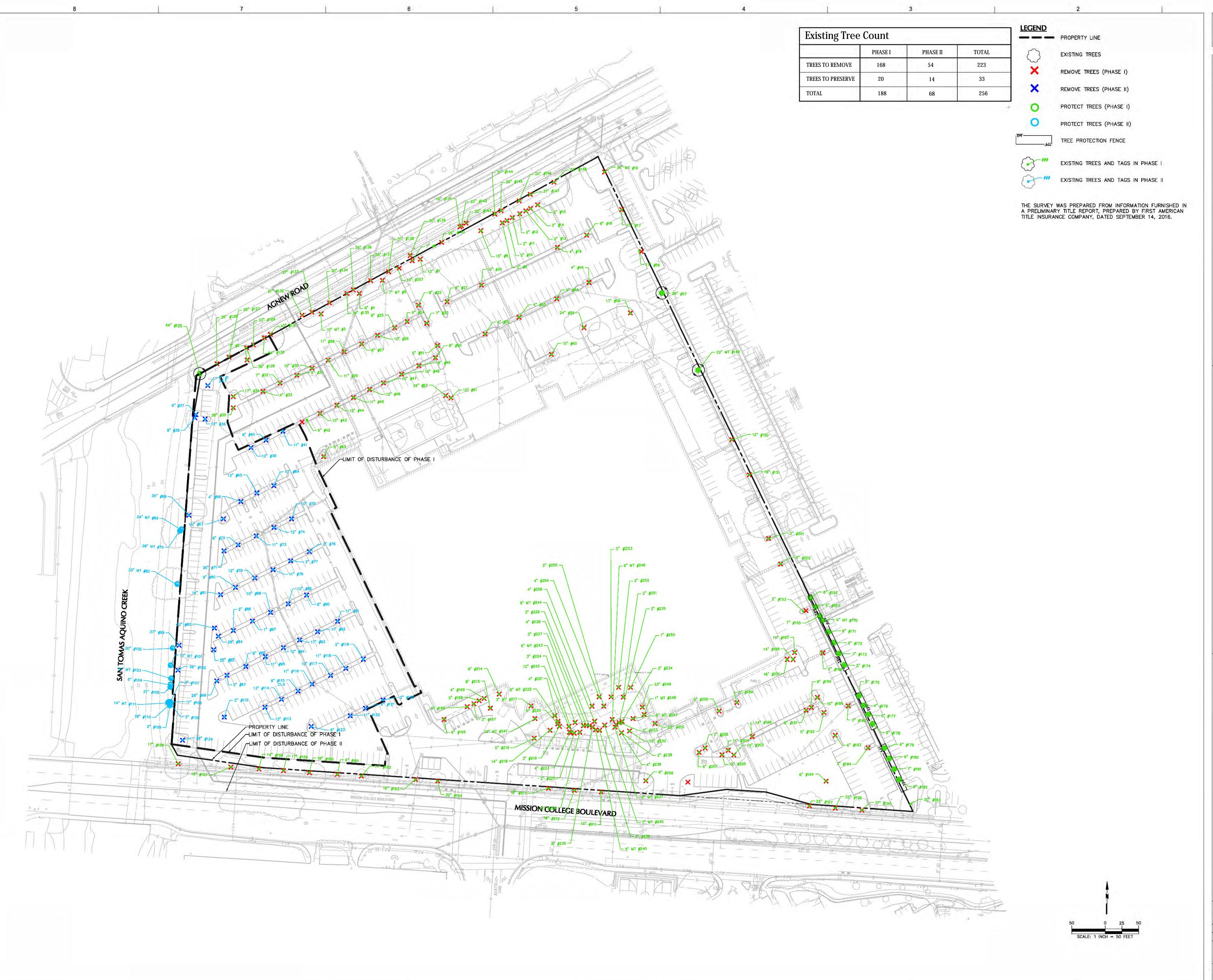
ENVIRONMENTAL SERVICES CONTACT: DUSTIN SHITANISHI 1 ALMADEN BLVD, STE 590 SAN JOSE, CA 95113

REVISION SCHEDULE DESCRIPTION P.C.C. SUBMITTAL PROGRESS SET 2019-12-20 PERMIT SET SUBMITTAL 2020-01-21 P.C.C. RE-SUBMITTAL

The licensed professional seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this professional, and this professional expressly disclaims any and all responsibility for such plan, drawings or

This drawing and all designs, details, inventions or developments covered thereby are confidential and the exclusive property of design owner (or its subsidiaries) which reserves all patent or other rights. Copying, reproduction or duplication, in whole or in part, is forbidden unless expressly authorized by design owner.

Filename: \\langan.com\\data\\SJO\\data6\770661602\\Project Data\\CAD\\02\\SheetFiles\\PCC Submission\\L-101 LANDSCAPE PLAN.dwg Date: 1/20/2020 Time: 15:18 User: nmiyashiro Style Table: Langan.stb Layout: L-101



PROJECT ADDRESS:

2305 MISSION COLLEGE BLVD, SANTA CLARA, CA 95054

LANGAN

Langan Engineering and
Environmental Services, Inc.

ARCHITECTURAL CONSULTANT

SALAS O'BRIEN SEATTLE CONTACT: BRENDA ROSS 10202 5TH AVE NE, STE 300 SEATTLE, WA 98125 PHONE: 206-547-1940

PHONE: 206-547-1940

MECHANICAL/ PLUMBING ENGINEER

SALAS O'BRIEN SAN JOSE CONTACT: CARL CRIZER 305 S 11TH ST SAN JOSE, CA 95112

PHONE: 408-282-1500

ELECTRICAL ENGINEER

SALAS O'BRIEN SAN JOSE CONTACT: THOMAS JUN 305 S 11TH ST SAN JOSE, CA 95112 PHONE: 408-282-1500

STRUCTURAL CONSULTANT

KPW STRUCTURAL ENGINEERS CONTACT: JAMES PASSAGLIA 55 HARRISON ST, STE 550 OAKLAND, CA 94607 PHONE: 510-208-3301

CIVIL CONSULTANT

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES CONTACT: DUSTIN SHITANISHI 1 ALMADEN BLVD, STE 590 SAN JOSE, CA 95113 PHONE: 408-283-3600

Sheet Title:

TREE INVENTORY PLAN

REVISION SCHEDULE

ISSUE DATE DESCRIPTION
2019-11-20 P.C.C. SUBMITTAL
2019-11-22 PROGRESS SET
2019-12-20 PERMIT SET SUBMITTAL
2020-01-21 P.C.C. RE-SUBMITTAL

SEAL / SIGNATURE

The licensed professional seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this professional, and this professional expressly disclaims any and all responsibility for such plan, drawings or documents not exhibiting this seal.

DATE: 01/21/2020

DRAWN. NISW DESIG

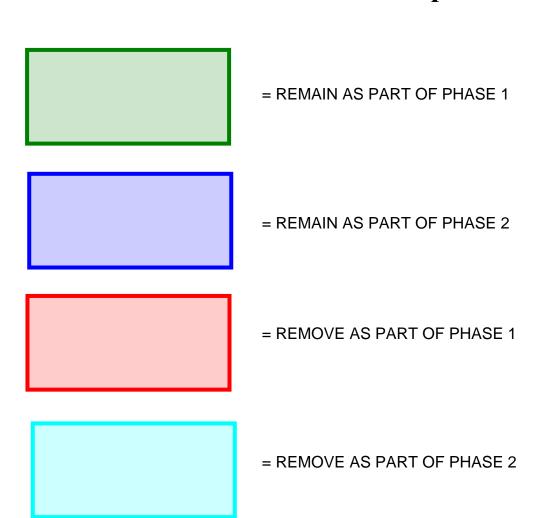
Filename: \\langan.com\\data\\SJO\\data6\770661602\Project Data\\CAD\\02\SheetFiles\PCC Submission\\C-302 - TREE INVENTORY PLAN.dwg Date: 2/25/2020 Time: 14:30 User: dshitanishi Style Table: Langan.stb Layout: C-302

C-302

This drawing and all designs, details, inventions or developments covered thereby

This drawing and all designs, details, inventions or developments covered thereby are confidential and the exclusive property of design owner (or its subsidiaries) which reserves all patent or other rights. Copying, reproduction or duplication, in whole or in part, is forbidden unless expressly authorized by design owner.

Appendix B Arborist Report



ARBORIST REPORT

Submitted To:

Kier and Wright Attention: Mr. Ryan Amaya 3350 Scott Boulevard #22 Santa Clara, CA 95054

Project Location:
Job: A02085-8
2305 Mission College Blvd.
Santa Clara, CA

Submitted By:

McCLENAHAN CONSULTING, LLC

John H. McClenahan

ISA Board Certified Master Arborist, WE-1476B

member, American Society of Consulting Arborists

February 20, 2017

©Copyright McCLENAHAN CONSULTING, LLC 2017



1 Arastradero Road, Portola Valley, CA 94028-8012 Telephone (650) 326-8781 Fax (650) 854-1267

www.spmcclenahan.com

February 20, 2017

Kier and Wright

Attention: **Mr. Ryan Amaya** 3350 Scott Boulevard #22 Santa Clara, CA 95054

RE: 2305 Mission College Blvd.

Santa Clara, CA

Assignment

As requested, I performed a visual inspection of 256 trees to determine species, size and condition and provide Tree Protection and Tree Preservation Guidelines.

Summary

At the time of inspection tree dispositions were not available. General Tree Preservation Guidelines are included. The tree species and quantity are below.

Liquidambar styraciflua	6
Pyrus calleryana 'Aristocrat'	4
Acacia melanoxylon	7
Eucalyptus globulus	29
Tristania conferta	1
Pinus canariensis	1
Prunus caroliniana	14
Pistacia chinensis	15
Sequoia sempervirens	4
Lagerstroemia indica	15
Cedrus deodara	8
Eucalyptus spp.	11
Betula pendula	12
Washingtonia robusta	1
Cupressus sempervirens	2
Acer palmatum	2
Cupressocyparis x leylandii	1
Platanus x acerifolia	69
Fraxinus velutina 'Modesto'	6
Myoporum laetum	2
Eucalyptus camaldulensis	8
Eucalyptus sideroxylon	14
Acer rubrum	6
Eucalyptus polyanthemos	2
Zelkova serrata	16
	Pyrus calleryana 'Aristocrat' Acacia melanoxylon Eucalyptus globulus Tristania conferta Pinus canariensis Prunus caroliniana Pistacia chinensis Sequoia sempervirens Lagerstroemia indica Cedrus deodara Eucalyptus spp. Betula pendula Washingtonia robusta Cupressus sempervirens Acer palmatum Cupressocyparis x leylandii Platanus x acerifolia Fraxinus velutina 'Modesto' Myoporum laetum Eucalyptus camaldulensis Eucalyptus sideroxylon Acer rubrum Eucalyptus polyanthemos

Attention: Mr. Ryan Amaya

Page 2

Methodology

No root crown exploration, climbing or plant tissue analysis was performed as part of this survey. For purposes of identification, trees have been numbered on the preliminary site plan shown in Figure 1.

In determining Tree Condition several factors have been considered which include:

Rate of growth over several seasons; Structural decays or weaknesses; Presence of disease or insects; and Life expectancy.

Tree Description/Observation

1 Black acacia Diameter: 7.8"

Height: 17' Spread: 16' Condition: Poor to Fair On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

2 Black acacia Diameter: 7.0"

Height: 15' Spread: 16'
Condition: Poor to Fair
Location: On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

3 Myoporum

Diameter: 9.8, 6.7, 10.3, 3.5" Multi Trunk

Height: 18' Spread: 28'
Condition: Poor
Location: On plan

Observation: Foliage exhibits significant damage from myoporum thrips. Decay of low stem.

4 Black acacia Diameter: 7.9"

Height: 18' Spread: 15'
Condition: Poor to Fair
Location: On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

5 Myoporum

Diameter: 6.2, 6.9" Multi Trunk

Height: 14' Spread: 13'
Condition: Very Poor
Location: On plan

Observation: Foliage exhibits significant damage from myoporum thrips. Decay of low stem.

6 Blue gum Diameter: 7.0"

Height: 22' Spread: 8' Condition: Very Poor On plan

Observation: Significant crown dieback.

Attention: Mr. Ryan Amaya

Page 3

7 Blue gum Diameter: 12.2"

Height: 30' Spread: 25' Condition: Very Poor Location: On plan

Observation: Significant crown dieback.

8 Blue gum

Diameter: 15.0"

Height: 35' Spread: 24'

Condition: Poor **Location:** On plan

Observation: Crown exhibits minor dieback and damage from leaf feeding insects. Grows to a

lean.

9 Red maple

Diameter: 1.6"

Height: 14' Spread: 4' Condition: Good Location: On plan

Observation: Newly installed tree.

10 Red maple

Diameter: 1.9"

Height: 14' Spread: 4' Condition: Good Location: On plan

Observation: Newly installed tree.

11 Red maple

Diameter: 1.6"

Height: 14' Spread: 4' Condition: Good Un plan

Observation: Newly installed tree.

12 Red maple

Diameter: 1.8"

Height: 13' Spread: 4' Condition: Good Location: On plan

Observation: Newly installed tree.

13 Red maple

Diameter: 1.5"

Height: 13' Spread: 4' Condition: Good Un plan

Observation: Newly installed tree.

Attention: Mr. Ryan Amaya

Page 4

14 Red maple Diameter: 1.6"

Height: 13' Spread: 4' Condition: Good Location: On plan

Observation: Newly installed tree.

15 Leyland cypress

Diameter: 2.1"
Height: 15'
Condition: Fair to Good
Location: On plan

Observation: Young establishing tree.

16 Blue gum

Diameter: 35.6, 25.9" Multi Trunk

Height: 65' Spread: 45' Condition: Poor to Fair On plan

Observation: Crown exhibits minor dieback and damage from leaf feeding insects. Poor root

environment created by neighboring parking lot.

17 Red ironbark

Diameter: 15.3"

Height: 26' Spread: 25' Condition: Poor Location: On plan

Observation: Low vigor. Poor root environment.

18 Modesto ash

Diameter: 8.5"

Height: 15' Spread: 16' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection.

19 Modesto ash

Diameter: 4.2"

Height: 11' Spread: 8' Condition: Poor Location: On plan

Observation: Grows to a lean. Dormant at time of inspection.

20 Modesto ash

Diameter: 10"

Height: 18' Spread: 26' Condition: Poor to Fair On plan

Observation: Grows to a lean. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 5

21 Modesto ash Diameter: 8.0"

Height: 15' Spread: 20' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection.

22 London plane tree

Diameter: 7.6"

Height: 22' Spread: 18'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

23 London plane tree

Diameter: 7.0"

Height: 18' Spread: 22'

Condition: Fair Location: On plan

Observation: Dormant at time of inspection.

24 London plane tree

Diameter: 9.0"

Height: 24' Spread: 24'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

25 London plane tree

Diameter: 8.2"

Height: 22' Spread: 18'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

26 London plane tree

Diameter: 10.1"

Height: 24' Spread: 26'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

27 London plane tree

Diameter: 8.3"

Height: 18' Spread: 20'

Condition: Fair **Location:** On plan

Observation: Grows to a lean. Dormant at time of inspection.

28 London plane tree

Diameter: 10.9"

Height: 30' Spread: 26'

Condition: Fair Location: On plan

Observation: One sided. Poor root environment. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 6

29 London plane tree

Diameter: 10.7" Height: 30' Spread: 30'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

30 London plane tree

Diameter: 10.4"

Height: 25' Spread: 28'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

31 London plane tree

Diameter: 9.0"

Height: 22' Spread: 26'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

32 London plane tree

Diameter: 6.9"

Height: 18' Spread: 16'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

33 London plane tree

Diameter: 4.1"

Height: 14' Spread: 12'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

34 Red gum

Diameter: 16.9"

Height: 28' Spread: 12' Condition: Very Poor On plan

Observation: Crown dieback and previous top failure. Decay observed low stem.

35 Red gum

Diameter: 37.7"

Height: 70' Spread: 50' Condition: Poor Location: On plan

Observation: History of limb failures. Low vigor. Abnormal bark patterns. Limited root

environment.

Attention: Mr. Ryan Amaya

Page 7

36 Black acacia

Diameter: 12.3" Height: 26' Spread: 20'

Condition: Poor **Location:** On plan

Observation: Broken limb hanging over parking lot. Remaining too high risk for failure.

37 Black acacia Diameter: 8.9"

Height: 20' Spread: 15' Condition: Poor to Fair On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean.

38 Black acacia Diameter: 7.6"

Height: 18' Spread: 12' Condition: Poor to Fair On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean.

39 London plane tree

Diameter: 12.2"

Height: 35' Spread: 32'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

40 London plane tree

Diameter: 9.1"

Height: 26' Spread: 22' Condition: Poor to Fair On plan

Observation: Limited root environment. Dormant at time of inspection.

41 London plane tree

Diameter: 11.3"

Height: 30' Spread: 32'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

42 London plane tree

Diameter: 8.8"

Height: 28' Spread: 30'

Condition: Fair Location: On plan

Observation: One sided. Limited root environment. Dormant at time of inspection.

43 London plane tree

Diameter: 10.3"

Height: 28' Spread: 26'

Condition: Fair **Location:** On plan

Observation: One sided. Limited root environment. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 8

44 London plane tree

Diameter: 12.1" Height: 28' Spread: 36'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

45 London plane tree

Diameter: 11.3"

Height: 30' Spread: 28'

Condition: Fair **Location:** On plan

Observation: One sided. Limited root environment. Dormant at time of inspection.

46 London plane tree

Diameter: 12.4"

Height: 30' Spread: 32'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

47 London plane tree

Diameter: 10.4"

Height: 28' Spread: 32' Condition: Poor to Fair On plan

Observation: Galls on root flare. Scars on scaffold limbs. Dormant at time of inspection.

48 London plane tree

Diameter: 10.4"

Height: 25' Spread: 24'

Condition: Fair **Location:** On plan

Observation: Grows to a slight lean. Limited root environment. Dormant at time of inspection.

49 London plane tree

Diameter: 7.9"

Height: 26' Spread: 20'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

50 London plane tree

Diameter: 7.6"

Height: 22' Spread: 24'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

51 London plane tree

Diameter: 4.9"

Height: 16' Spread: 15'

Condition: Fair Location: On plan

Observation: Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 9

52 Chinese pistache

Diameter: 3.5"

Height: 12' Spread: 10'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

53 Chinese pistache

Diameter: 4.3"

Height: 12' Spread: 8'
Condition: Fair
Location: On plan

Observation: Young establishing tree.

54 Chinese pistache

Diameter: 4.0"

Height: 13' Spread: 11'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

55 Chinese pistache

Diameter: 4.1"

Height: 14' Spread: 14'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

56 Red ironbark

Diameter: 16.8"

Height: 35' Spread: 35' Condition: Poor Location: On plan

Observation: Sparse crown. Leans over parking lot.

57 Red ironbark

Diameter: 28.0"

Height: 55' Spread: 50' Condition: Poor to Fair On plan

Observation: Poor root environment. Poor structure.

58 Red ironbark

Diameter: 16.6"
Height: 30'
Condition: Poor to Fair
Location: On plan
Observation: Low vigor.

59 Red ironbark

Diameter: 24.1"

Height: 32' Spread: 28' Condition: Poor to Fair On plan

Observation: Poor root environment.

Attention: Mr. Ryan Amaya

Page 10

60 Modesto ash

Diameter: 10.1"
Height: 12'
Condition: Poor to Fair
Location: On plan

Observation: Poor structure. Limited root environment.

61 Red gum Diameter: 11.7"

Height: 20' Spread: 18' Condition: Poor to Fair On plan

Observation: Minor dieback of crown. Poor root environment.

62 Red gum Diameter: 28.5"

Height: 55' Spread: 60' Condition: Poor Location: On plan

Observation: Dieback of crown. Poor root environment.

63 London plane tree

Diameter: 5.2"

Height: 18' Spread: 22'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

64 London plane tree

Diameter: 13.3" Height: 35' Spread: 30'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

65 London plane tree

Diameter: 13.3"

Height: 30' Spread: 28'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

66 London plane tree

Diameter: 3.8"

Height: 15' Spread: 12' Condition: Fair to Good On plan

Observation: Limited root environment. Dormant at time of inspection.

67 Red ironbark

Diameter: 15.1"

Height: 30' Spread: 26' Condition: Poor to Fair On plan

Observation: Poor structure. Limited root environment.

Attention: Mr. Ryan Amaya

Page 11

68 Red ironbark

Diameter: 34.8" Low Branching

Height: 55' Spread: 50' Condition: Poor to Fair On plan

Observation: Poor structure. Limited root environment.

69 Red ironbark

Diameter: 24.0" Multi Trunk
Height: 36' Spread: 25'
Condition: Poor
Location: On plan

Observation: History of broken limbs. Poor structure. Bleeding cankers on one stem.

70 Red ironbark

Diameter: 13.0, 11.5" Multi Trunk

Height: 25' Spread: 28'
Condition: Poor to Fair
Location: On plan

Observation: Bleeding cankers. Poor structure. Limited root environment.

71 Red gum

Diameter: 35.6"

Height: 75' Spread: 55'

Condition: Fair **Location:** On plan

Observation: Bleeding cankers. Poor structure. Limited root environment.

72 London plane tree

Diameter: 8.0"

Height: 20' Spread: 16'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

73 London plane tree

Diameter: 10.6"

Height: 30' Spread: 30'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

74 London plane tree

Diameter: 12.4"

Height: 30' Spread: 35'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

75 London plane tree

Diameter: 10.4"

Height: 30' Spread: 26'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 12

76 Chinese pistache

Diameter: 2.3" Height: 12' Spread: 7'

Condition: Fair to Good Location: On plan

Observation: Newly installed tree.

77 Chinese pistache

Diameter: 2.1"

Height: 13' Spread: 7' Condition: Fair to Good On plan

Observation: Newly installed tree.

78 London plane tree

Diameter: 10.6"

Height: 30' Spread: 28'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

79 London plane tree

Diameter: 12.2"

Height: 32' Spread: 24'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

80 London plane tree

Diameter: 9.0"

Height: 20' Spread: 22'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

81 Swamp gum

Diameter: 14.3" Height: 45' Spread

Height: 45' Spread: 28' Condition: Poor to Fair On plan

Observation: Low vigor. Poor root environment.

82 Black acacia

Diameter: 33.2,15.0" Multi Trunk

Height: 45' Spread: 55'
Condition: Poor to Fair
Location: On plan

Observation: Foliage exhibits tip burn. Grows to a slight lean. Galls observed on scaffold limbs.

83 Eucalyptus spp.

Diameter: 22.4"

Height: 50' Spread: 50' Condition: Poor to Fair On plan

Observation: Narrow scaffold limb attachments. Poor root environment.

Attention: Mr. Ryan Amaya

Page 13

84 Eucalyptus spp. Diameter: 28.3"

Height: 55' Spread: 50' Condition: Poor to Fair On plan

Observation: Narrow scaffold limb attachments. Poor root environment.

85 Eucalyptus spp. Diameter: 25.4"

Height: 40' Spread: 36' Condition: Poor to Fair On plan

Observation: Narrow scaffold limb attachments. Poor root environment.

86 London plane tree

Diameter: 1.6"
Height: 12'
Condition: Fair
Location: On plan

Observation: Newly installed tree.

87 London plane tree

Diameter: 7.5"
Height: 8' Spread: 3'
Condition: Fair
Location: On plan

Observation: Newly installed tree.

88 London plane tree

Diameter: 9.7"

Height: 30' Spread: 34'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

89 London plane tree

Diameter: 10.2"

Height: 36' Spread: 36'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

90 London plane tree

Diameter: 8.5"

Height: 30' Spread: 20'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

91 London plane tree

Diameter: 11.1"

Height: 28' Spread: 20'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 14

92 London plane tree

Diameter: 10.9"
Height: 28' Spread: 3

Height: 28' Spread: 22'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

93 London plane tree

Diameter: 17.0"

Height: 35' Spread: 36'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

94 London plane tree

Diameter: 12.0"

Height: 35' Spread: 26'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

95 London plane tree

Diameter: 10.8"

Height: 30' Spread: 32'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

96 London plane tree

Diameter: 9.2"

Height: 26' Spread: 20'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

97 London plane tree

Diameter: 2.2"

Height: 11' Spread: 4' Condition: Fair to Good On plan

Observation: Newly installed tree.

98 Red gum

Diameter: 28.0"

Height: 75' Spread: 48'

Condition: Poor Location: On plan

Observation: Bleeding cankers. Poor structure. Poor root environment.

99 Red gum

Diameter: 36.6"

Height: 75' Spread: 36'

Condition: Poor Location: On plan

Observation: Bleeding cankers. Poor structure. Limited root environment.

Attention: Mr. Ryan Amaya

Page 15

100 Fan palm Diameter: 20.0"

Height: 50' Spread: 14'

Condition: Fair **Location:** On plan

Observation: 40' of old fronds hanging.

101 Red ironbark

Diameter: 13.5,12.0" Multi Trunk

Height: 25' Spread: 30'
Condition: Fair
Location: On plan

Observation: Understory tree.

102 Red gum

Diameter: 25.6" Height: 60' Spread: 46'

Condition: Poor Location: On plan

Observation: Bleeding cankers. Poor structure. Limited root environment.

103 Eucalyptus spp.

Diameter: 30.8" Multi Trunk Height: 25' Spread: 25'

Condition: Poor **Location:** On plan

Observation: Broken tops on three main stems.

104 Eucalyptus spp.

Diameter: 5.6"
Height: 18' Spread: 8'
Condition: Poor
Location: On plan
Observation: Dead top.

105 Red ironbark

Diameter: 21.2"

Height: 45' Spread: 26' Condition: Poor to Fair On plan

Observation: Basal cavity. Leans.

106 Eucalyptus spp. Diameter: 10.5"

Height: 30' Spread: 14' Condition: Poor to Fair On plan

Observation: Cluster of trees and suckers with low vigor

107 Eucalyptus spp.

Diameter: 2.5"

Height: 11' Spread: 5' Condition: Poor to Fair On plan

Observation: Cluster of trees and suckers with low vigor

Attention: Mr. Ryan Amaya

Page 16

108 Eucalyptus spp.

Diameter: 2.8"

Height: 12' Spread: 5' Condition: Poor to Fair Location: On plan

Observation: Cluster of trees and suckers with low vigor

109 Eucalyptus spp.

Diameter: 1.6"

Height: 12' Spread: 5' Condition: Poor to Fair On plan

Observation: Cluster of trees and suckers with low vigor

110 Eucalyptus spp.

Diameter: 18.4"

Height: 60' Spread: 20'

Condition: Poor **Location:** On plan

Observation: Cluster of trees and suckers with low vigor

111 Eucalyptus spp.

Diameter: 13.5, 6.4" **Height:** 45' **Spread:** 18'

Condition: Poor **Location:** On plan

Observation: Cluster of trees and suckers with low vigor

112 Chinese pistache

Diameter: 1.7"

Height: 10' Spread: 6' Condition: Fair to Good On plan

Observation: Newly installed tree.

113 London plane tree

Diameter: 13.0"

Height: 30' Spread: 28' Condition: Poor to Fair On plan

Observation: Limited root environment. Dormant at time of inspection.

114 London plane tree

Diameter: 12.8"

Height: 32' Spread: 30'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

115 London plane tree

Diameter: 8.9"

Height: 26' Spread: 22'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 16

116 London plane tree

Diameter: 10.7"

Height: 25' Spread: 25' Condition: Poor to Fair On plan

Observation: Limited root environment. Dormant at time of inspection.

117 London plane tree

Diameter: 10.3"

Height: 30' Spread: 28'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

118 London plane tree

Diameter: 10.5"

Height: 30' Spread: 26'

Condition: Fair **Location:** On plan

Observation: Limited root environment. Dormant at time of inspection.

119 Chinese pistache

Diameter: 1.5"

Height: 10' Spread: 4' Condition: Fair to Good On plan

Observation: Newly installed tree.

120 Chinese pistache

Diameter: 2.0"

Height: 10' Spread: 6' Condition: Fair to Good On plan

Observation: Newly installed tree.

121 London plane tree

Diameter: 3.8"

Height: 16' Spread: 14'

Condition: Fair Location: On plan

Observation: Young establishing tree.

122 London plane tree

Diameter: 11.0"

Height: 27' Spread: 30'

Condition: Fair Location: On plan

Observation: Limited root environment. Dormant at time of inspection.

123 London plane tree

Diameter: 6.4"

Height: 18' Spread: 20'

Condition: Fair Location: On plan

Observation: Young establishing tree.

Attention: Mr. Ryan Amaya

Page 17

124 Canary Island pine

Diameter: 26.3" Height: 70' Spread: 26'

Condition: Fair Location: On plan

Observation: Crown somewhat one sided. Limited root environment.

125 Blue gum

Diameter: 43.8"

Height: 70' Spread: 40' Condition: Poor to Fair On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

126 Blue gum

Diameter: 34.7"

Height: 60' Spread: 36' Condition: Poor to Fair Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

127 Blue gum

Diameter: 26.1"

Height: 50' Spread: 28'
Condition: Poor to Fair
Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

128 Blue gum

Diameter: 36.3"

Height: 55' Spread: 35'
Condition: Poor
Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

129 Blue gum

Diameter: 33.3"

Height: 60' Spread: 38'

Condition: Poor **Location:** On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

130 Blue gum

Diameter: 34.3"

Height: 60' Spread: 30' Condition: Poor Location: On plan

Observation: Branch dieback observed. Limited root environment.

131 Blue gum

Diameter: 40.4"

Height: 60' Spread: 40'

Condition: Poor **Location:** On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

Attention: Mr. Ryan Amaya

Page 18

132 Blue gum Diameter: 20.8"

Height: 40' Spread: 45' Condition: Poor to Fair On plan

Observation: Branch dieback observed. Limited root environment.

133 Blue gum Diameter: 37.2"

Height: 75' Spread: 50' Condition: Poor Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

134 Blue gum Diameter: 29.6"

Height: 55' Spread: 35' Condition: Poor to Fair On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

135 Blue gum Diameter: 33.7"

Height: 65' Spread: 60' Condition: Poor to Fair Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

136 Blue gum Diameter: 34.8"

Height: 65' Spread: 36'
Condition: Poor to Fair
Location: On plan

Observation: Heavy accumulation of water sprouts.

137 Blue gum Diameter: 28.4"

Height: 55' Spread: 45'

Condition: Poor **Location:** On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

138 Blue gum Diameter: 50.6"

Height: 50' Spread: 60' Condition: Poor Location: On plan

Observation: Branch dieback observed. Limited root environment.

139 Blue gum

Diameter: 30.3"

Height: 60' Spread: 44'

Condition: Poor **Location:** On plan

Observation: Branch dieback observed. Limited root environment.

Attention: Mr. Ryan Amaya

Page 19

140 Blue gum Diameter: 26.0"

Height: 55' Spread: 38'
Condition: Very Poor
Location: On plan

Observation: Branch dieback observed. Limited root environment.

141 Blue gum Diameter: 16.3"

Height: 45' Spread: 25'
Condition: Poor
Location: On plan

Observation: Crown overlaps with adjacent blue gum. Below average vigor.

142 Blue gum Diameter: 21.8"

Height: 65' Spread: 40'
Condition: Poor
Location: On plan

Observation: Crown overlaps with adjacent blue gum. Below average vigor.

143 Blue gum Diameter: 22.2"

Height: 65' Spread: 40'

Condition: Poor Location: On plan

Observation: Limited root environment. Branch dieback observed. Slight lean.

144 Blue gum Diameter: 31.4"

Height: 65' Spread: 45'
Condition: Poor to Fair
Location: On plan

Observation: Codominant leaders at 12-feet. Limited root environment.

145 Blue gum Diameter: 29.2"

Height: 70' Spread: 35'

Condition: Poor Location: On plan

Observation: Sparse upper crown. Poor vigor. Limited root environment.

146 Blue gum Diameter: 20.4"

Height: 20' Spread: 16'
Condition: Poor
Location: On plan

Observation: Previous top failure. Low vigor.

147 Blue gum

Diameter: 30.8"

Height: 60' Spread: 40' Condition: Poor

Location: On plan

Observation: Codominant leaders at 15-feet. Limited root environment. Poor vigor

Attention: Mr. Ryan Amaya

Page 20

148 Blue gum Diameter: 32.2"

Height: 50' Spread: 40'

Condition: Poor Location: On plan

Observation: Limited root environment. Branch dieback observed. Low vigor.

149 Red ironbark

Diameter: 20.7, 22.2" Multi Trunk

Height: 55' Spread: 45'
Condition: Poor to Fair
Location: On plan

Observation: Poor root environment. Poor structure.

150 Red ironbark

Diameter: 17.3"

Height: 40' Spread: 30' Condition: Poor to Fair Location: On plan

Observation: Poor root environment. Poor structure.

151 Red ironbark

Diameter: 24.6"

Height: 45' Spread: 30'

Condition: Poor Location: On plan

Observation: Crown overlaps with neighboring tree. Poor root environment. Poor structure.

152 Coast redwood

Diameter: 8.1"

Height: 20' Spread: 12' Condition: Poor to Fair On plan

Observation: Old growth exhibits environmental stress.

153 Chinese pistache

Diameter: 2.1"

Height: 11' Spread: 5' Condition: Fair to Good On plan

Observation: Newly installed tree.

154 Coast redwood

Diameter: 6.4"

Height: 13' Spread: 9' Condition: Poor Location: On plan

Observation: Sparse crown. Necrotic growth from environmental stress.

155 Coast redwood

Diameter: 6.9"

Height: 20' Spread: 10'

Condition: Poor Location: On plan

Observation: Sparse crown. Necrotic growth from environmental stress.

Attention: Mr. Ryan Amaya

Page 21

156 Zelkova

Diameter: 17.3"

Height: 25' Spread: 28'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment.

157 Zelkova

Diameter: 18.8"

Height: 28' Spread: 32'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment.

158 Zelkova

Diameter: 13.8"

Height: 30' Spread: 32'
Condition: Poor to Fair
Location: On plan
Observation: Girdling roots.

159 Zelkova

Diameter: 16.6"

Height: 30' Spread: 38' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

160 Zelkova

Diameter: 17.9"

Height: 30' Spread: 40' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment.

161 Zelkova

Diameter: 5.9"

Height: 15' Spread: 12'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

162 Zelkova

Diameter: 16.8"

Height: 30' Spread: 40'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

Attention: Mr. Ryan Amaya

Page 22

163 Zelkova

Diameter: 16.4"

Height: 20' Spread: 22' Condition: Poor Location: On plan

Observation: Declining tree. Poor root environment.

164 Zelkova

Diameter: 20.4"

Height: 30' Spread: 30' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

165 Crape myrtle

Diameter: 6.0"

Height: 18' Spread: 18' Condition: Fair to Good Location: On plan

Observation: Surface rooting observed. Dormant at time of inspection.

166 Crape myrtle

Diameter: 5.4"

Height: 20' Spread: 16' Condition: Fair to Good On plan

Observation: Surface rooting observed. Dormant at time of inspection.

167 Crape myrtle

Diameter: 3.0"

Height: 16' Spread: 12'

Condition: Fair **Location:** On plan

Observation: Surface rooting observed. Dormant at time of inspection.

168 Crape myrtle

Diameter: 4.6"

Height: 22' Spread: 18'

Condition: Fair **Location:** On plan

Observation: Surface rooting observed. Dormant at time of inspection.

169 Crape myrtle

Diameter: 4.1"

Height: 20' Spread: 12'

Condition: Fair **Location:** On plan

Observation: Surface rooting observed. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 23

170 Aristocrat pear

Diameter: 6.3, 3.5, 3.8, 3.0,3.0,3.0, 3.0, 3.0, Multi Trunk

Height: 28' Spread: 18' Condition: Poor to Fair Location: On plan

Observation: Multiple stems are the result of stump sprouting.

171 London plane tree

Diameter: 8.6"

Height: 25' Spread: 22' Condition: Fair to Good On plan

Observation: Young establishing tree.

172 London plane tree

Diameter: 5.2"

Height: 19' Spread: 18'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

173 London plane tree

Diameter: 6.9"

Height: 20' Spread: 20' Condition: Fair to Good On plan

Observation: Young establishing tree.

174 London plane tree

Diameter: 3.0"
Height: 10'
Condition: Fair
Location: On plan

Observation: Young establishing tree.

175 London plane tree

Diameter: 4.5"

Height: 12' Spread: 12'

Condition: Fair Location: On plan

Observation: Young establishing tree.

176 London plane tree

Diameter: 4.3"

Height: 13' Spread: 12'

Condition: Fair Location: On plan

Observation: Young establishing tree.

177 London plane tree

Diameter: 4.6"

Height: 16' Spread: 14' Condition: Poor to Fair On plan

Observation: Young establishing tree.

Attention: Mr. Ryan Amaya

Page 24

178 London plane tree

Diameter: 5.0"

Height: 14' Spread: 12'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

179 London plane tree

Diameter: 6.1"

Height: 14' Spread: 16'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

180 London plane tree

Diameter: 6.0"

Height: 14' Spread: 16'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

181 London plane tree

Diameter: 7.2"

Height: 16' Spread: 14'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

182 London plane tree

Diameter: 7.5"

Height: 18' Spread: 16'

Condition: Fair Location: On plan

Observation: Young establishing tree.

183 Coast redwood

Diameter: 19.7"

Height: 40' Spread: 20' Condition: Very Poor Location: On plan

Observation: Severe decline.

184 Chinese pistache

Diameter: 2.6"

Height: 12' Spread: 6' Condition: Fair to Good On plan

Observation: Newly installed tree.

185 Chinese pistache

Diameter: 2.9"

Height: 12' Spread: 9' Condition: Fair to Good On plan

Observation: Newly installed tree.

Attention: Mr. Ryan Amaya

Page 25

186 Chinese pistache

Diameter: 2.2"

Height: 13' Spread: 6' Condition: Fair to Good On plan

Observation: Newly installed tree.

187 Deodar cedar

Diameter: 16.6"

Height: 45' Spread: 28'

Condition: Fair Location: On plan

Observation: Cluster of three trees with a limited root environment.

188 Deodar cedar

Diameter: 13.8"

Height: 45' Spread: 22'

Condition: Fair **Location:** On plan

Observation: Cluster of three trees with a limited root environment.

189 American sweet gum

Diameter: 10.1"

Height: 26' Spread: 18'

Condition: Fair Location: On plan

Observation: Surface rooting observed. Limited root environment. Dormant at time of

inspection.

190 American sweet gum

Diameter: 7.7"

Height: 22' Spread: 16'

Condition: Fair Location: On plan

Observation: Surface rooting observed. Limited root environment. Dormant at time of

inspection.

191 American sweet gum

Diameter: 8.3"

Height: 22' Spread: 15'

Condition: Fair **Location:** On plan

Observation: Surface rooting observed. Limited root environment. Dormant at time of

inspection.

192 American sweet gum

Diameter: 4.9"
Height: 15'
Condition: Poor
Location: On plan

Observation: Surface rooting observed. Limited root environment. Dormant at time of

inspection.

Attention: Mr. Ryan Amaya

Page 26

193 American sweet gum

Diameter: 6.4"

Height: 20' Spread: 15'

Condition: Fair Location: On plan

Observation: Surface rooting observed. Limited root environment. Dormant at time of

inspection.

194 Zelkova

Diameter: 6.4"

Height: 14' Spread: 18'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roos

195 Zelkova

Diameter: 17.4"

Height: 30' Spread: 32' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

196 Zelkova

Diameter: 22.4"

Height: 35' Spread: 50' Condition: Poor to Fair Location: On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

197 Zelkova

Diameter: 22.4"

Height: 35' Spread: 45' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

198 Modesto ash

Diameter: 13.9"

Height: 25' Spread: 25'

Condition: Poor **Location:** On plan

Observation: Irregular root flare, subject to failure.

199 Crape myrtle

Diameter: 4.8"

Height: 16' Spread: 16' Condition: Fair to Good On plan

Observation: Surface rooting observed. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 27

200 Crape myrtle Diameter: 4.5"

Height: 14' Spread: 14'

Condition: Fair Location: On plan

Observation: Surface rooting observed. Dormant at time of inspection.

201 Chinese pistache

Diameter: 1.8"

Height: 13' Spread: 6' Condition: Fair to Good Location: On plan

Observation: Newly installed tree.

202 Chinese pistache

Diameter: 2.5"

Height: 12' Spread: 8' Condition: Fair to Good Location: On plan

Observation: Newly installed tree.

203 Deodar cedar

Diameter: 13.5"

Height: 45' Spread: 24' Condition: Poor to Fair On plan

Observation: Low vigor. Poor root environment.

204 Deodar cedar Diameter: 11.2"

Height: 40' Spread: 18' Condition: Dead

Location: Dead On plan Observation: Dead.

205 Deodar cedar

Diameter: 12.4"

Height: 45' Spread: 22'

Condition: Dead Location: On plan Observation: Dead.

206 American sweet gum

Diameter: 7.2"

Height: 20' Spread: 18' Condition: Fair to Good On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Girdling roots

207 Deodar cedar

Diameter: 6.1"

Height: 15' Spread: 10'
Condition: Poor to Fair
Location: On plan

Observation: Water stressed.

Attention: Mr. Ryan Amaya

Page 28

209 Brisbane box Diameter: 8.9"

Height: 32' Spread: 18'

Condition: Fair **Location:** On plan

Observation: One sided crown. Surface rooting.

210 Deodar cedar Diameter: 21.7"

Height: 45' Spread: 35' Condition: Poor to Fair On plan

Observation: Leans away from building. Poor root environment.

211 Zelkova

Diameter: 14.8"

Height: 20' Spread: 24'

Condition: Poor Location: On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

212 Zelkova

Diameter: 17.8"

Height: 30' Spread: 36' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

213 Zelkova

Diameter: 18.4"

Height: 28' Spread: 36'

Condition: Poor Location: On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments. Sidewalk

creates limited root environment. Circling roots.

214 Japanese maple

Diameter: 8.4"

Height: 12' Spread: 15'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments.

215 Italian cypress

Diameter: 8.0"

Height: 20' Spread: 4'

Condition: Fair
Location: On plan
Observation: Normal vigor.

Attention: Mr. Ryan Amaya

Page 29

216 Crape Myrtle Diameter: 5.4"

Height: 16' Spread: 18'
Condition: Fair to Good
Location: On plan
Observation: Untagged tree.

217 Japanese maple

Diameter: 3.2, 3.4, 2.5, 2.0, 3.1" Multi Trunk

Height: 14' Spread: 15' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments.

218 Aristocrat pear

Diameter: 13.7" Height: 18' Spread: 22'

Condition: Poor Location: On plan

Observation: Dormant at time of inspection. Narrow scaffold limb attachments.

219 Carolina cherry

Diameter: 2.9"

Height: 12' Spread: 6' Condition: Poor to Fair Location: On plan Observation: Large shrub.

220 Carolina cherry

Diameter: 4.5"
Height: 14'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

221 Carolina cherry

Diameter: 4.4" Low Branching

Height: 12' Spread: 9'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

222 European white birch

Diameter: 3.8, 4.8, 4.4" Multi Trunk

Height: 22' Spread: 12'
Condition: Poor to Fair
Location: On plan

Observation: Dormant at time of inspection. Poor structure.

223 Carolina cherry

Diameter: 3.9"

Height: 15' Spread: 9'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

Attention: Mr. Ryan Amaya

Page 30

224 Carolina cherry

Diameter: 2.7"
Height: 9' Spread: 5'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

225 Carolina cherry

Diameter: 2.2"

Height: 9' Spread: 5' Condition: Poor to Fair Location: On plan Observation: Large shrub.

226 Aristocrat pear

Diameter: 11.8"

Height: 18' Spread: 18' Condition: Poor Location: On plan

Observation: Poor structure. Dormant at time of inspection.

227 Carolina cherry

Diameter: 3.4"

Height: 15' Spread: 7'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

228 Carolina cherry

Diameter: 4.1"

Height: 16' Spread: 7'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

229 Carolina cherry

Diameter: 3.3"

Height: 16' Spread: 7'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

230 Carolina cherry

Diameter: 3.3"

Height: 15' Spread: 7'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

231 Deodar cedar

Diameter: 15.5"

Height: 45' Spread: 24'
Condition: Poor to Fair
Location: On plan

Observation: Cluster of three trees with a limited root environment. Leans.

Attention: Mr. Ryan Amaya

Page 31

232 Aristocrat pear Diameter: 14.5"

Height: 20' Spread: 25' Condition: Poor to Fair On plan

Observation: Narrow scaffold limb attachments.

233 European white birch

Diameter: 1.5"

Height: 12' Spread: 5' Condition: Fair On plan

Observation: Newly installed tree

234 Carolina cherry

Diameter: 2.8"
Height: 12' Spread: 7'
Condition: Fair
Location: On plan
Observation: Large shrub.

235 Carolina cherry

Diameter: 2.7"

Height: 14' Spread: 5' Condition: Poor to Fair Location: On plan Observation: Large shrub.

236 Carolina cherry

Diameter: 3.9"

Height: 14' Spread: 9'
Condition: Poor to Fair
Location: On plan
Observation: Large shrub.

237 European white birch

Diameter: 4.2, 5.8, 4.8" Multi Trunk

Height: 22' Spread: 20' Condition: Fair

Location: On plan

Observation: Dormant at time of inspection.

238 European white birch

Diameter: 1.8"

Height: 12' Spread: 6' Condition: Fair to Good On plan

Observation: Newly installed tree.

239 Carolina cherry

Diameter: 3.1"

Height: 14' Spread: 12' Condition: Poor to Fair Location: On plan Observation: Large shrub.

Attention: Mr. Ryan Amaya

Page 32

240 European white birch

Diameter: 4.5, 4.8, 3.0,1.5" Multi Trunk

Height: 25' Spread: 15' Condition: Poor to Fair Location: On plan

Observation: Dormant at time of inspection. Poor structure.

241 Italian cypress

Diameter: 10.0" Multi Trunk

Height: 23' Spread: 4' Condition: Fair On plan

Observation: Limited root environment.

242 European white birch

Diameter: 12.4" Low Branching

Height: 30' Spread: 20'

Condition: Fair **Location:** On plan

Observation: Dormant at time of inspection.

243 European white birch

Diameter: 5.9, 5.7" Multi Trunk

Height: 22' Spread: 20' Condition: Poor to Fair On plan

Observation: Dormant at time of inspection.

244 European white birch

Diameter: 4.5, 6.5, 7.5" Multi Trunk

Height: 26' Spread: 20'

Condition: Fair **Location:** On plan

Observation: Surface rooting observed. Dormant at time of inspection.

245 European white birch

Diameter: 7.3" Multi Trunk Height: 20' Spread: 16'

Condition: Fair Location: On plan

Observation: Surface rooting observed. Dormant at time of inspection.

246 European white birch

Diameter: 4.7, 5.8, 6.0" Multi Trunk

Height: 18' Spread: 18' Condition: Poor to Fair On plan

Observation: Surface rooting observed. Dormant at time of inspection.

247 European white birch

Diameter: 5.6, 4.6,4.1" Multi Trunk

Height: 16' Spread: 14' Condition: Poor to Fair On plan

Observation: Surface rooting observed. Dormant at time of inspection.

Attention: Mr. Ryan Amaya

Page 33

248 European white birch

Diameter: 1.4, 1.4" Multi Trunk

Height: 8' Spread: 6' Condition: Fair On plan

Observation: Newly installed tree.

249 Silver dollar Diameter: 33.2"

Height: 55' Spread: 50' Condition: Poor to Fair Location: On plan

Observation: Narrow scaffold limb attachments. Poor rot environment.

250 Crape myrtle

Diameter: 1.1"

Height: 7' Spread: 4'
Condition: Poor to Fair
Location: On plan

Observation: Newly installed tree.

251 Crape myrtle

Diameter: 2.3"

Height: 13' Spread: 9' Condition: Fair to Good On plan

Observation: Young establishing tree.

252 Crape myrtle Diameter: 2.3"

Height: 13' Spread: 12' Condition: Fair to Good On plan

Observation: Young establishing tree.

253 Crape myrtle

Diameter: 2.5"

Height: 12' Spread: 12' Condition: Fair to Good On plan

Observation: Young establishing tree.

254 Crape myrtle Diameter: 3.5"

Height: 18' Spread: 16'

Condition: Fair
Location: On plan

Observation: Young establishing tree.

255 Crape myrtle

Diameter: 2"

Height: 10' Spread: 9' Condition: Poor to Fair Location: On plan

Observation: Young establishing tree

Attention: Mr. Ryan Amaya

Page 34

256 Crape myrtle Diameter: 4.0"

Height: 16' Spread: 13'

Condition: Fair **Location:** On plan

Observation: Young establishing tree.

257 Blue gum
Diameter: 10.3"

Height: 24' Spread: 18'

Condition: Fair

Location: Backflow between 138 k 139

Observation: Understory tree.

TREE PRESERVATION GUIDELINES

Tree Preservation and Protection Plan

In providing recommendations for tree preservation, we recognize that injury to trees as a result of construction include mechanical injuries to trunks, roots and branches, and injury as a result of changes that occur in the growing environment.

To minimize these injuries, we recommend grading operations encroach no closer than six times the trunk diameter, (i.e. 30" diameter tree x 6=180" distance). At this distance, buttress/anchoring roots would be preserved and minimal injury to the functional root area would be anticipated. Should encroachment within the area become necessary, hand digging is *mandatory*.

Barricades

Prior to initiation of construction activity, temporary barricades should be installed around all trees in the construction area. Six-foot high, chain link fences are to be mounted on steel posts, driven 2 feet into the ground, at no more than 10-foot spacing. The fences shall enclose the entire area under the drip line of the trees or as close to the drip line area as practical. These barricades will be placed around individual trees and/or groups of trees as the existing environment dictates.

The temporary barricades will serve to protect trunks, roots and branches from mechanical injuries, will inhibit stockpiling of construction materials or debris within the sensitive 'drip line' areas and will prevent soil compaction from increased vehicular/pedestrian traffic. No storage of material, topsoil, vehicles or equipment shall be permitted within the tree enclosure area. The ground around the tree canopy shall not be altered. Designated areas beyond the drip lines of any trees should be provided for construction materials and onsite parking.

Root Pruning (if necessary)

During and upon completion of any trenching/grading operation within a tree's drip line, should any roots greater than one inch (1") in diameter be damaged, broken or severed, root pruning to include flush cutting and sealing of exposed roots should be accomplished under the supervision of a qualified Arborist to minimize root deterioration beyond the soil line **within twenty-four (24) hours.**

Pruning

Pruning of the foliar canopies to include removal of deadwood is recommended and should be initiated prior to construction operations. Such pruning will provide any necessary construction clearance, will lessen the likelihood or potential for limb breakage, reduce 'windsail' effect and provide an environment suitable for healthy and vigorous growth.

Attention: Mr. Ryan Amaya

Page 35

Fertilization

A program of fertilization by means of deep root soil injection is recommended with applications in spring and summer for those trees to be impacted by construction. Fertilizer should include organic

Such fertilization will serve to stimulate feeder root development, offset shock/stress as related to construction and/or environmental factors, encourage vigor, alleviate soil compaction and compensate for any encroachment of natural feeding root areas.

Inception of this fertilizing program is recommended prior to the initiation of construction activity.

Mulch

Mulching with wood chips (maximum depth 3") within tree environments (outer foliar perimeter) will lessen moisture evaporation from soil, protect and encourage adventitious roots and minimize possible soil compaction.

Inspection

Periodic inspections by the *Site Arborist* are recommended during construction activities, particularly as trees are impacted by trenching/grading operations.

Inspections at approximate four (4) week intervals would be sufficient to assess and monitor the effectiveness of the Tree Preservation Plan and to provide recommendations for any additional care or treatment.

All written material appearing herein constitutes original and unpublished work of the Arborist and may not be duplicated, used or disclosed without written consent of the Arborist.

We thank you for this opportunity to be of assistance in your tree preservation concerns.

Should you have any questions, or if we may be of further assistance in these concerns, kindly contact our office at any time.

Very truly yours,

McCLENAHAN CONSULTING, LLC

By: John H. McClenahan

ISA Board Certified Master Arborist, WE-1476B member, American Society of Consulting Arborists

JHMc: pm



Arboriculturists Since 1911

1 Arastradero Road, Portola Valley, CA 94028-8012 Telephone (650) 326-8781 Fax (650) 854-1267 www.spmcclenahan.com

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like a medicine, cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, landlord-tenant matters, etc. Arborists cannot take such issues into account unless complete and accurate information is given to the arborist. The person hiring the arborist accepts full responsibility for authorizing the recommended treatment or remedial measures.

Trees can be managed, but they cannot be controlled. To live near a tree is to accept some degree of risk. The only way to eliminate all risks is to eliminate all trees.

Arborist: John H. McClenahan

ACH. Millan _

Date: February 20, 2017

Attachment BIO DR-61

Email Confirmation From Harvey Ecology

From: Kim Briones < kbriones@harveyecology.com>

Sent: Tuesday, February 25, 2020 3:19 PM **To:** Drew Johnson < Drew@oppidan.com>

Cc: Roger Bernstein < <u>roger@Oppidan.com</u>>; Maria Garcia < <u>Maria@Oppidan.com</u>>; Steve Rottenborn

<srottenborn@harveyecology.com>

Subject: RE: Data request from CEC for 2305 Mission College Blvd.

CAUTION: EXTERNAL

Date: February 23, 2020

To: Drew Johnson (Oppidan)

Cc: Roger Berstein, Maria Garcia (Oppidan), Steve Rottenborn (H. T. Harvey & Associates)

From: Kim Briones (H. T. Harvey & Associates)

Subject: Nesting Raptor Survey for 2305 Mission College Blvd.

In accordance with the Mitigation and Monitoring Program for the 2305 Mission College Boulevard project, H. T. Harvey & Associates ornithologist Will Lawton conducted a preconstruction survey for nesting raptors on the site. As noted in our January 6, 2020 report for this survey, no active raptor nests were observed. Per your request, I am providing additional information on our the general avian observations that were made during this survey.

During the January 6 preconstruction survey, a number of common avian species were observed on the sight or flying over the site. Avian species that were observed include the California towhee (*Melozone crissalis*), northern mockingbird (*Mimus polyglottos*), red-shouldered hawk (*Buteo lineatus*), American crow (*Corvus brachyrhynchos*), mourning dove (*Zenaida macroura*), house finch (Haemorhous mexicanus), yellow-rumped warbler (*Setophaga coronata*), white-crowned sparrow (*Zonotrichia leucophrys*), golden-crowned sparrow (*Zonotrichia atricapilla*), chestnut-backed chickadee (*Poecile rufescens*), turkey vulture (*Cathartes aura*), California gull (*Larus californicus*), western scrub jay (*Aphelocoma californica*), and cedar waxwing (*Bombycilla cedrorum*).

Attachment CUL DR-62

Foundation Plan

