DOCKETED	
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Project Title:	Lafayette Backup Generating Facility
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Document Title:	Digital Realty Responses to CEC Data Request Set 2 - LBGF
Description:	N/A
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RESPONSE TO CEC STAFF DATA REQUEST SET 2 (96-103)

Great Oaks South Backup Generating Facility (20-SPPE-02)

SUBMITTED TO: CALIFORNIA ENERGY COMMISSION
SUBMITTED BY: **Digital Realty**

September 2020

DAYZEN LLC

INTRODUCTION

Attached are Digital Realty's responses to California Energy Commission (CEC) Staff Data Request Set No. 2 (96-103) for the Lafayette Backup Generation Facility (LBGF) Application for Small Power Plant Exemption (SPPE) (20-SPPE-02). Staff issued Data Request Set No. 2 (96-103) on August 28, 2020.

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 (96-103). 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 in Attachments at the end of the document and labeled with the Data Request Number for ease of reference.

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

GENERAL OBJECTIONS

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

PROJECT DESCRIPTION

BACKGROUND: Floor Area Ratio

Drawings A1.1 and A1.2 in Attachment PD DR-1 (Response to Data Request Set 1) show a floor area ratio (FAR) of 0.90 for the "proposed new building." Staff has been unable to replicate the applicant's calculation of FAR. The City of Santa Clara 2010– 2035 General Plan states that "FAR expresses the ratio of building square footage to land square footage." The City's Zoning Code uses the example of a single-family home to define FAR as the "gross floor area…divided by the total lot area."

Staff calculated FAR for this project by dividing the total building square footage by the total lot area. The applicant's project modifications show a lot area of 15.875 acres (with the lot line adjustment), or 691,526 sq. ft. Staff calculated FAR using the modified total building square footage of 575,401 sq. ft. from response to Data Request 10 and determined a FAR of 0.83 for the project.

(Also, the SPPE application states that the General Plan land use designation for the site is Heavy Industrial (pages 27, 139 and 140). This is incorrect. The General Plan designation for the site is Light Industrial, which has a maximum FAR of 0.60.)

DATA REQUEST

96. The applicant's drawings A1.1 and A1.2 in Attachment PD DR-1 show a FAR of 0.90. Please explain how a FAR of 0.90 was calculated. If staff's calculation of FAR is incorrect, please explain why.

RESPONSE TO DATA REQUEST 96

Per meeting with the City of Santa Clara planners on July 18, 2019 as part of the PCC review process, the floor-to-area ration (FAR) was discussed in detail with Mr. Yen Chen. At that meeting, it was agreed that our verbiage originally published on the drawings describing the requested variance on the FAR requirement be removed, and that the 0.90 ratio would be used as a not-to-exceed threshold. The as-designed ratio is 0.83 which is below the agreed 0.90 maximum.

Floor-to-Area Ratio for 2825 Lafayette Street

Proposed new building	0.90
Maximum allowable per general plan	0.60

Requested variance: The permitted FAR is dictated by the Santa Clara general plan for light industrial use is 0.60. The proposed development is requesting a FAR not to exceed of 0.90. Per our meeting with the city planners on July 18, 2019, an increase in the allowable FAR may be obtained for data centers due to the nature of their low-population use.

The proposed office component is 64,000 sf (10.9% of the overall gsf of the proposed building). For reference, a building on this site at 0.60 FAR would be 403,885 gsf and would include up to 80,077 sf of office area based on the 20% maximum allowable office area for a light industrial building. Therefore, the proposed 64,000 sf office component is below the 80,077 sf office area allowed by the general plan site classification.

The data center white space, electrical and mechanical rooms (most of the non-office area space) is un-occupied most of the time. Security, operations engineers, and computer equipment maintenance staff periodically pass through the different rooms.

While the proposed parking adheres to the 1 parking spot per 4,000 gsf of data center as prescribed in the zoning code, the actual anticipated vehicular traffic is much less, and is also much less than what would be expected for a light industrial building with an office component of 20% of the square footage maximizing the 0.60 FAR.

The office component a LDC is expected to be infrequently used (as is common with data center facilities) and used typically only during periodic maintenance visits to the site by tenant it staff.

As a secondary justification for our proposed not to exceed 0.90 FAR, the proposed 64,000 sf office area will be much smaller than the office area currently on the site. Two existing office buildings on the site currently have approximately 305,000 sf of office area.

BIOLOGICAL RESOURCES

BACKGROUND: Clarifications on Responses to Data Requests Set 1 and Follow up Requests

Staff needs clarifications regarding the applicant's Responses to Data Requests Set 1 for staff to complete its CEQA analysis. Furthermore, CEC staff is proposing changes to PD BIO-2, a mitigation measure provided by the applicant in the Responses to Data Requests Set 1 that would be incorporated into the project design to reduce impacts to existing trees to remain on site. Changes are necessary because PD BIO -2 does not list all trees proposed to be removed as part of the project. In addition, it does not include language to allow flexibility if the City of Santa Clara determines that additional avoidance and minimization needs to be implemented to avoid impacts to trees that are to remain on site.

DATA REQUESTS

97. The Response to Data Request 69 only stated "Please see the Landscape Drawing Set included in Attachment PD DR-1" for all the information requested below in bullets a) and b). However, these drawings do not provide adequate information in response to Data Request 69. There is no information related to construction parking or material laydown areas in the Landscape Drawing Set.

    The only potentially relevant information included on these drawings was the location of "LID/Stormwater Treatment Trees" and "LID/Stormwater Treatment Plants" displayed on the Landscape Plan on Sheet L2.0 and an inventory of "LID/Stormwater Treatment Trees" and "LID/Stormwater Treatment Plants" on the Landscape Notes and Schedule on Sheet L2.1.

    Please clarify if the areas displayed as "LID/Stormwater Treatment Trees" and "LID/Stormwater Treatment Plants" are the same as the "bioswales" referenced on page 135 of the LBGF SPPE application and "bioretention" areas referenced on pages 17-18 and 136 of the LBGF SPPE application?

RESPONSE TO DATA REQUEST 97

Please see the new plan sheet **C0.2 – Preliminary Erosion Control Plan,** included in Attachment BIO DR-97 for the location of the construction parking and material laydown areas. All construction parking and material laydown will occur onsite only.

The LID/Stormwater Treatment Trees/Plants are planting material that is allowed to be

located within bioretention stormwater treatment facilities. These plants are consistent with those allowed by the City of Santa Clara per the City's standard specifications.

98. In addition, as requested in Data Request 69, answer the clarification questions and provide more descriptive information (design, materials, location, and so forth) and detailed figures, if not already included on Landscape Plan on Sheet L2.0, for the following:

    a. Bioretention/Bioswale areas, including the landscape planting and the impervious surface areas that would drain to these structures. Also, clarify if the bioretention/bioswale areas would function as retention ponds during flood events.

    b. Sections 2.2.11 and 2.3.3 and 2.3.4 discuss project construction and site parking; laydown areas for construction materials and construction worker parking is not mentioned. Please clarify whether all construction parking and material laydown would occur on-site. If not please provide details, location and map of any off-site parking and laydown areas.

RESPONSE TO DATA REQUEST 98

a. Please see sheets **C4.0 and C4.1**, provided to the CEC as Attachment PD DR-1, Civil Drawing Set as part of the Responses to Data Request Set 1 for the locations of the proposed bioretention facilities. These plan sheets also tabulate the impervious areas that drain to each bioretention facility. Additional information can also be found on sheet **C4.2**. Bioretention facilities are provided to treat low-flow storm events and are not sized to retain stormwater during a flood event.

b. Please see the attached new plan sheet **C0.2 – Preliminary Erosion Control Plan** included in Attachment BIO DR-97 for the location of the construction parking and material laydown areas. All construction parking and material laydown will occur onsite only.

99. The Arborist Report included in the Applicant's Responses to Data Requests Set 1 – Part 3 includes a Tree Inventory on Pages L1.2 and L1.3. Staff requires clarification on the inventory as there is some missing and/or inaccurate information. Please provide the following additional information:

    a. Tree 420 is not included on Tree Inventory Sheet L1.3. Please include all data for this tree from the tree inventory, including Species, Latin Name, DBH (in.), TPZ radius (ideal: feet), Project Feature(s) Impacting, and

Disposition.

b. For the following tree #s, the species name is not paired with the correct Latin name on Tree Inventory Sheet L1.2 and Tree Inventory Sheet L1.3:

i. Tree 136: green ash/*Pinus sabiniana*
ii. Tree 208: evergreen pear/ *Malus* sp.
iii. Tree 221: Japanese maple/*Pinus sabiniana*
iv. Tree 332: ornamental cherry/*Pinus thunbergii*
v. Tree 381: Italian cypress/ *Pinus thunbergii sabiniana*

c. For Tree 338 (London plane), please clarify if the tree is to be removed or retained. The tree inventory states "Retain" but "Recommendation #1" from the Arborist Report on Sheet L1.5 lists it as a tree to be removed. This is the only tree where the tree inventory did not agree with the list of trees included at Recommendation #1. It is noted as a tree to be removed on the Tree Disposition Plan.

d. Tree 341 (holly oak) and Tree 343 (Peruvian pepper), are protected trees species under General Plan Policy 5.10.1-P4. Both trees are listed as "to be retained" in the Arborist Report as they can reasonably be protected during project construction. However, the applicant has listed these trees as to be removed on Tree Disposition Plan (Sheet L1.0). Please provide justification for their removal as the City of Santa Clara expects the applicant to retain protected trees on site if feasible where they would not conflict with building or required parking placement.

e. If any changes are made to the trees to be retained or removed, please provide an updated tally of trees to be removed, updated list in PD BIO -2 bullet 1 (see below), and an updated Tree Disposition Plan (Sheet L1.0).

RESPONSE TO DATA REQUEST 99

a. Please, see updated Tree Inventory table, including all requested information for tree number 420 included in Attachment BIO DR-99, Updated Landscape Plan Drawings and Tree Protection Plan.
b. Common and corresponding scientific names for trees #136, 208, 221, 332, and 381 have been revised accordingly on both sheets. See Attachment BIO DR-99
c. Tree 338 (London plane) is in conflict with SVP easement, and a fire risk.

SVP has required that the applicant remove all trees within the SVP easement and wire zones to mitigate fire risk. The arborist report has been revised to accordingly. See Attachment BIO DR-99.

d. Tree 341 (holly oak) and Tree 343 (Peruvian pepper) are located within the SVP easement. SVP has required that the applicant remove all trees within the SVP easement and wire zones to mitigate fire risk.

e. Arborist report, Tree Disposition Plan, and PD BIO -2 bullet 1 have been updated to correspond with the revised tree removal list: #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476. See Attachment BIO DR-99.

100. In response to Data Request 71, staff reviewed Attachment PD DR 1 and agrees that the correct number of trees currently existing on the site is 476. The applicant stated that of these, 375 will be removed, 99 will remain, and 2 are stumps that would be removed. However, based on staff's review of the Tree Disposition Plan (Sheet L1.0) included in Attachment PD DR 1, it is documented that 376 would be removed, 98 would remain, and 2 stumps would be removed.

a. Please clarify the correct number of trees to be removed and trees to remain. If there are any corrections to Tree Disposition Plan (Sheet L1.0) please provide an updated Tree Disposition Plan (Sheet L1.0).

b. Please provide the Tree ID# and species name for the additional tree to be removed.

c. Please provide adequate mitigation for this additional tree.

d. If it is a protected tree, please provide justification for its removal as the City of Santa Clara expects the applicant to retain protected trees on site, if feasible, where they would not conflict with building or required parking placement.

RESPONSE TO DATA REQUEST 100

The correct figures are as follows: 375 trees will be removed, 99 will remain, and 2 are stumps that will be removed.

a. A total of 375 trees will be removed: #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476.

b. Tree ID#, scientific, and common name are provided on both the arborist report and Tree Disposition Plan included in Attachment BIO DR-99

c. The Tree Disposition Plans account for the proper mitigation rates per the

City of Santa Clara's standards, and provide a surplus of 10 new trees beyond the required replacement quantities.

d. The only trees categorized by the City of Santa Clara as "protected" species are trees #341 and 343. Both of these trees are located within the SVP easement. SVP has required the applicant to remove all trees located within the SVP easements and wire zones to mitigate risk of fire. Per that request both trees will be removed and replaced per the City of Santa Clara standards.

101. In response to Data Request 70, the applicant provided PD BIO -2 in their Response to Data Requests Set 1. Staff has reviewed PD BIO-2 and notes the following:

a. PD BIO-2, bullet 1 does not include all trees to be removed as noted on the Tree Disposition Plan (Sheet L1.0) and only lists those listed in the "recommendations" for the Arborist Report and included on L1.4. Only 319 trees are listed in bullet 1, while the Tree Disposition Plan (Sheet L1.0) labeled 376 trees that would be removed.

b. Tree 315 and 358 are labeled as an "EXISTING TREE - TO REMAIN PROTECT IN PLACE" on Sheet L1.0 but are listed in PD BIO-2 as to be removed. Please clarify if these are to be removed or to be retained.

Staff proposes the following alterations to the language of PD BIO-2 (new language is in bold text). In addition, staff requests the applicant revise bullet 1 to accurately include all tree numbers proposed for removal as indicated on Tree Disposition Plan L1.0. Please show new language in bold text and deleted language in strike-through text).

Please provide the final version of PD BIO-2 with a statement that the applicant will accept these changes and incorporate the revised version of PD BIO-2 into the project. If the applicant disagrees with any of these changes, please propose alternate language.

PD BIO-2: The project will incorporate the following measures, in accordance with the arborist recommendations, to protect trees from harm that could occur during construction. Any additional measures required by the City of Santa Clara would also be implemented.

- **Remove trees #1-6, 15, 21, 23-25, 42-78, 80-83, 94-97, 99-251, 253-257, 259-263, 268-270, 277-313, 315-328, 330-332, 335-338, 340, 411, 414, 420-433, 446-448, 450-453, 456-470, 475, and 476, upon approval from the City of**

Santa Clara.

- **Remove deadwood from remaining Callery pears and Raywood ashes. This will benefit both tree health and worker safety.**
- **All tree work must be completed by trained tree care personnel under the direction of an International Society of Arboriculture Certified Arborist.**
- **The Applicant shall alert the Project Arborist when new drawings are available showing grading, utilities, retention area details, or material changes to project features.**
- **Tree protection fencing shall be installed prior to any demolition equipment entering the site.**
    - **Fencing shall be installed at or outside the tree protection areas of all trees to be retained.**
    - **Where existing pavement is within tree protection zones, install tree protection fencing at the edge of pavement. After demolition, relocated tree protection fencing to the edge of the tree protection area.**
    - **Install tree protection fencing at the edge of the project features.**
    - **For areas where no construction will occur, tree protection fencing will be installed at the perimeter of the area instead of around each tree individually.**
    - **Spread wood chips at least four inches thick within tree protection fencing.**
- **For existing hardscape to be demolished within tree protection zones:**
    - **Demolish the area nearest the tree first, and work outwards.**
    - **Do not operate machinery on unpaved areas within tree protection zones.**
    - **Upon completion of demolition, relocate tree protection fencing to at or outside the tree protection area.**
- **Minimize grading near trees. Do not complete any grading inside tree protection fencing.**
- **If live roots over one inch in diameter are encountered at any time, in any location, they must be pruned with a sharp saw or bypass pruners, as close to the edge of the excavation as possible. If roots over three inches in diameter are encountered, do not prune, but instead contact the Project Arborist to determine the best course of action.**
- **Irrigate all trees to be retained on a monthly basis with potable water, in the absence of heavy rain.**
    - **Irrigate using a soaker hose placed as close to the tree driplines as practical. Irrigate for 2-4 hours at a very low flow. If this causes runoff, reduce the flow rate. If this is impractical for any tree for any reason, contact the Project Arborist.**

RESPONSE TO DATA REQUEST 101

PD BIO-2 has been revised, including the following information:

a. A total of 375 trees will be removed. PD BIO-2 now provides the following tree removal list, matching the Tree Disposition Plan and Arborist Report: #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476.

b. Both trees #315 and 358 shall be protected in place. PD BIO-2 now provides the following tree removal list, matching the Tree Disposition Plan and Arborist Report: #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476.

Applicant has revised PD BIO-2 bullet number one as instructed and agrees with Staff changes and will incorporate it into the design and implementation of the project. A redline strikethrough version of PD BIO-2 is included in Attachment BIO PD-101.

UTILITIES AND SERVICE SYSTEMS

BACKGROUND

No information was provided in the SPPE application regarding the amount or source of water expected to be used during the construction phase of the proposed project. Staff needs this information to complete its analysis of the SPPE.

DATA REQUEST

102. Please provide the necessary information about the amount and source(s) of water for the construction phase.

RESPONSE TO DATA REQUEST 102

At this time, the Applicant has not retained a contractor to construction the LDC and therefore does not have an estimate of water to be used during construction. However, Applicant believes the amount of water for construction of the LDC would be similar to the amount for the Walsh Data Center. Staff used a conservative estimate of approximately 13 acre feet for the Walsh Data Center.

BACKGROUND

The proposed project would use potable water for its operation. However, recycled water is available in the project area and there are recycled water connections in the vicinity of the project site as acknowledged by the applicant.

DATA REQUEST

103. Please explain why the applicant is not planning to use recycled water for its evaporative cooling, for which, high-quality water is not needed.

RESPONSE TO DATA REQUEST 103

Recycled water is proposed to be used for both building cooling and onsite irrigation and will be used to extent that it is available. Please see the recycled water applications that were submitted to the City of Santa Clara on September 2, 2020, included in Attachment UTIL DR-103.

ATTACHMENT BIO DR-97

Preliminary Erosion Control Plan

LEGEND

- PROPERTY LINE
- EASEMENT
- CHAIN LINK FENCE WITH GREEN SCREEN
- GRAVEL BAGS
- DIRECTION OF EXISTING SURFACE FLOW

CONSTRUCTION PLAN NOTES

1. ALL CONSTRUCTION VEHICLES, EQUIPMENT, TRAILERS AND MATERIAL STORAGE SHALL BE LOCATED ON-SITE.
2. NO CONSTRUCTION EQUIPMENT OR VEHICLES SHALL BE STORED OR PARKED ON RESIDENTIAL STREETS OR PUBLIC PARKING LOTS.
3. CONSTRUCTION CONTRACTORS/WORKERS ARE REQUIRED TO PARK ON-SITE AND SHALL NOT BE ALLOWED TO USE NEIGHBORING PUBLIC STREETS FOR PARKING/STORAGE.
4. CONSTRUCTION EQUIPMENT STORAGE AND CONSTRUCTION PARKING LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS AND SIZES ARE TO BE DETERMINED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THIS PLAN WITH FINAL LOCATIONS AND SIZES OF THE CONSTRUCTION TRAILER, EQUIPMENT STORAGE AND CONSTRUCTION PARKING.

BMP NOTES

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BMP HANDBOOK DATED NOVEMBER 2009, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED AS NEEDED:

EC-1, SCHEDULING
EC-2, PRESERVATION OF EXISTING VEGETATION
EC-3, HYDRAULIC MULCH
WE-1, WIND EROSION CONTROL
NS-1, WATER CONSERVATION PRACTICES
NS-3, PAVING AND GRINDING OPERATIONS
NS-7, POTABLE WATER/IRRIGATION
NS-12, CONCRETE CURING
NS-13, CONCRETE FINISHING
WM-4, SPILL PREVENTION AND CONTROL
WM-5, SOLID WASTE MANAGEMENT
WM-7, CONTAMINATED SOIL MANAGEMENT
WM-9, SANITARY/SEPTIC WASTE MANAGEMENT
WM-10, LIQUID WASTE MANAGEMENT
SE-7, STREET SWEEPING AND VACUUMING

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

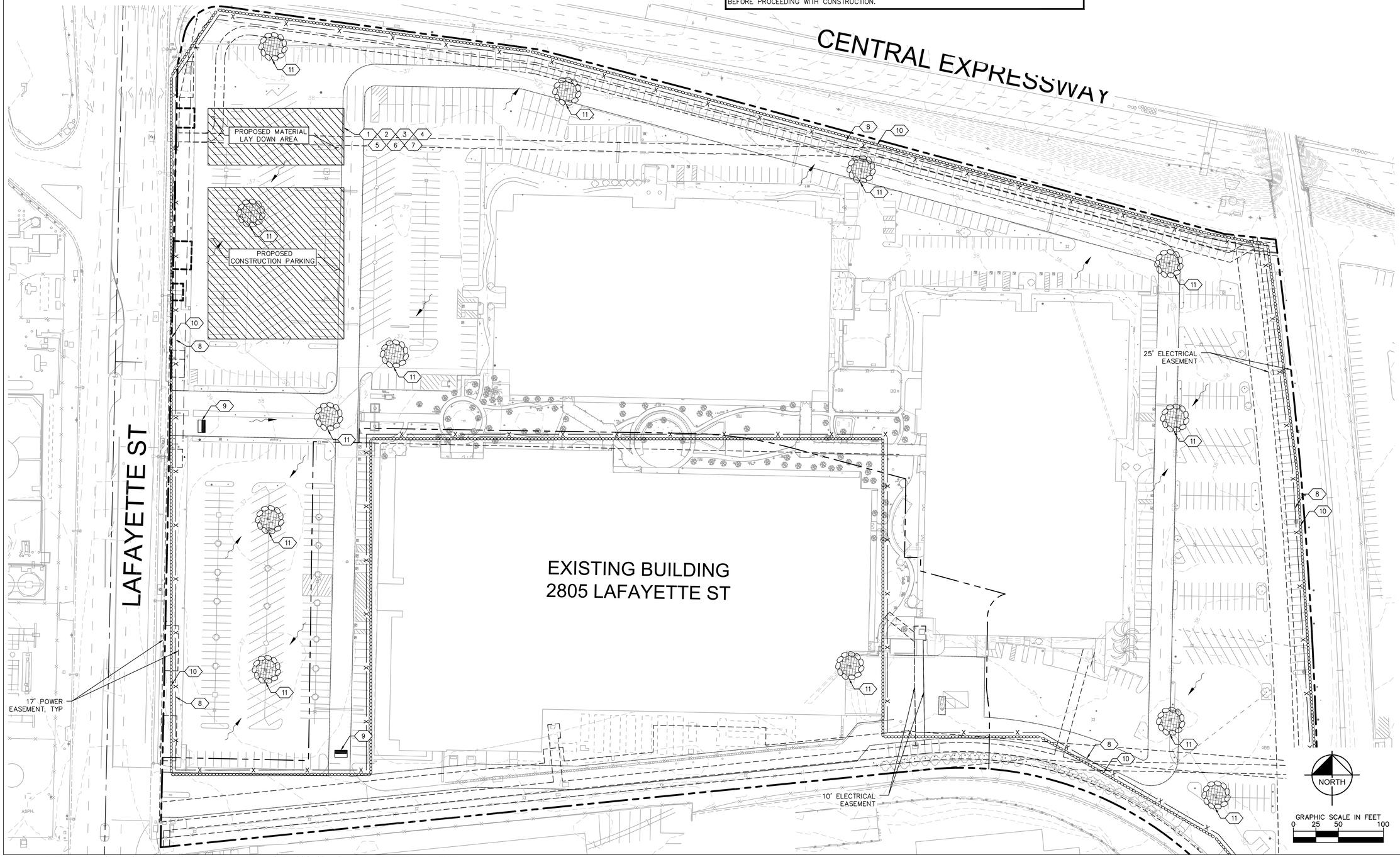
PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (MIN. 1) AND CHAIN LINK FENCE WITH GREEN SCREEN AND THEN SILT FENCE WHERE SHOWN ON PLAN.
2. CONSTRUCT AND STABILIZE SEDIMENT BASIN AND DRAINAGE SWALES WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE)
3. INSTALL INLET PROTECTION AT EXISTING INLET(S).
4. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES,CHECK DAMS, OUTLET TRAPS, RISER PIPE DISCHARGE POINT, ETC.)
5. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

PHASE 2:
6. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROP. DRAINAGE PATTERNS.
7. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
8. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.

HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

EROSION CONTROL NOTES

1. WM-1, MATERIAL DELIVERY AND STORAGE.
2. WM-3, STOCKPILE MANAGEMENT, CONTRACTOR TO SET UP STOCKPILE AREA.
3. WM-5, SANITARY AREA.
4. WM-6, HAZARDOUS WASTE MANAGEMENT.
5. WM-8, CONCRETE WASTE MANAGEMENT.
6. NS-10, VEHICLE AND EQUIPMENT MAINTENANCE.
7. SD-32, TRASH STORAGE AREA.
8. CHAIN LINK FENCE WITH GREEN SCREEN. CONTRACTOR TO MAINTAIN DURING ALL GRADING & MOBILIZATION ACTIVITIES.
9. TR-3, ENTRANCE/OUTLET TIRE WASH.
10. SC-5, GRAVEL BAG. CONTRACTOR TO MAINTAIN DURING ALL GRADING AND MOBILIZATION ACTIVITIES.
11. SE-10, STORM DRAIN CURB INLET PROTECTION.



DIGITAL REALTY
Data Center Solutions

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CIVIL ENGINEER STAMP

REGISTERED PROFESSIONAL ENGINEER
MILES R. JOHNSON
RCE NO. 84307
CIVIL
STATE OF CALIFORNIA

NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
1	PCC ISSUANCE	10.07.19

DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

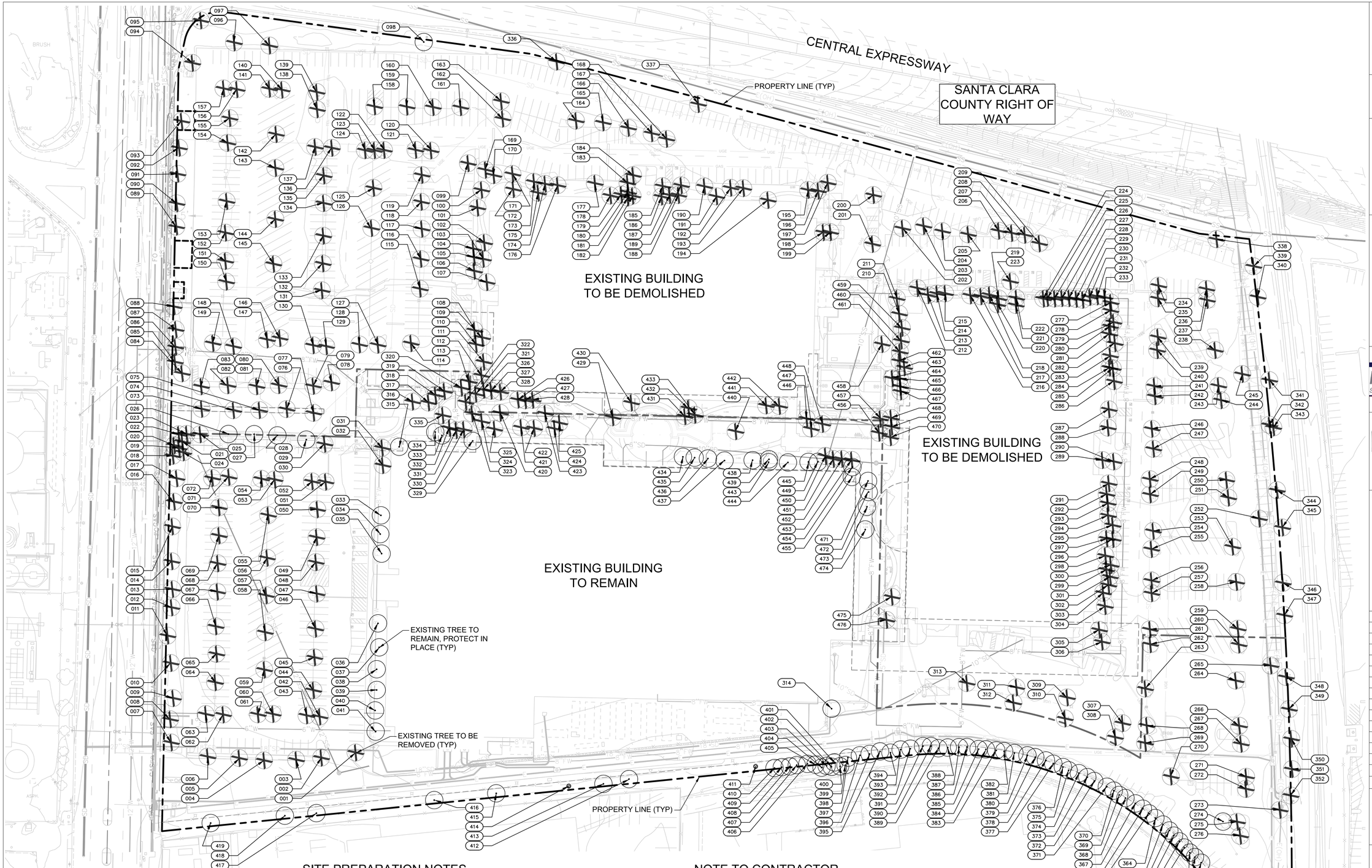
PRELIMINARY EROSION CONTROL PLAN

PRINCIPAL IN CHARGE JP	PROJECT NUMBER 197250001
PROJECT MANAGER MJ	DATE 09/02/20
PROJECT ENGINEER KN	SHEET NUMBER C0.2
SCALE AS SHOWN	

ATTACHMENT BIO DR-99

Updated Landscape Plan Drawings

Tree Protection Plan



TREE DISPOSITION

TREES	CODE	QTY	DESCRIPTION
	ER	375	EXISTING TREE - TO BE REMOVED
	EP	99	EXISTING TREE - TO REMAIN PROTECT IN PLACE
	ES	2	EXISTING STUMP / TO BE REMOVED

TREE REPLACEMENT REQ.	
24" BOX TREE REPLACEMENT REQ.	750
OR.	
36" BOX TREE REPLACEMENT REQ.	375

NOTE:
TREES TO BE REPLACED AT A 2:1 RATIO AT 24" BOX SIZE. TREES MAY BE REPLACED AT A 1:1 RATIO USING A 36" BOX SIZE. CURRENT MITIGATION INFORMATION IS SUBJECT TO CHANGE BASED ON FUTURE PLAN UPDATES.

SITE PREPARATION NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER OR OWNER'S REPRESENTATIVE AND IDENTIFY TREES WHICH ARE TO BE REMOVED. DO NO CLEARING WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
2. IF, IN ORDER TO PERFORM EXCAVATION WORK, IT BECOMES NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED WITHIN THE PROPERTY LIMITS OR LOCATED ON ADJACENT PROPERTY, SUCH ROOTS SHOULD BE CUT NEATLY, COVERED WITH BURLAP AND KEPT MOIST UNTIL ROOTS ARE BACK FILLED.
3. TREE REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOTBALLS AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED BY THE REMOVAL OPERATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF WORK DUE TO HIS CONTRACT OPERATIONS.
5. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR.
6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE TO CONTRACTOR

1. PER COUNTY OF SANTA CLARA TREE PRESERVATION AND REMOVAL GUIDELINES, TREES OF SIGNIFICANT STATUS OR CIRCUMFERENCE (37.7") WITHIN PROJECT LIMITS THAT ARE TO BE REMOVED SHALL REQUIRE A TREE REMOVAL PERMIT. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS, PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL TREES NOT CALLED OUT FOR REMOVAL AND NOT SPECIFICALLY SHOWN ON THESE PLANS IN THE NEARBY VICINITY OF THIS PROJECT. IF THE LIMITS OF DISTURBANCE AFFECT NEARBY TREES TO REMAIN, THE CONTRACTOR SHALL IMPLEMENT TREE PROTECTION MEASURES TO ENSURE EXISTING TREES TO REMAIN ARE PRESERVED THROUGH CONSTRUCTION. REFER TO SHEET L1.1 FOR TREE DISPOSITION DETAILS.
3. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A 90-DAY MAINTENANCE PERIOD FOR ALL PROPOSED AND EXISTING PLANT MATERIAL TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DEAD OR IN-DECLINE PLANT MATERIAL AFFECTED BY CONSTRUCTION OR INSTALLED DURING THIS PROJECT FOR AN ADDITIONAL ONE-YEAR GUARANTEE PERIOD. PLANTS THAT DIE DURING THE ONE-YEAR PERIOD SHALL BE REPLACED PROMPTLY IN-KIND AND OF A COMPARABLE SIZE.
4. **FOR SPECIFIC ARBORIST RECOMMENDATIONS, REFERENCE PAGE 7 OF THE ARBORIST REPORT, ON SHEET L1.5.**

DIGITAL REALTY
Data Center Solutions

2825 LAFAYETTE STREET
SANTA CLARA, CA
95050-2627

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STRUCTURAL ENGINEER
PEOPLES ASSOCIATES
STRUCTURAL ENGINEERS

CIVIL ENGINEER AND LANDSCAPE ARCHITECT
Kimley»Horn

4637 CHABOT DRIVE, SUITE 300,
PLEASANTON, CA 94588
PHONE: 925-398-4840 FAX: 714-938-9488

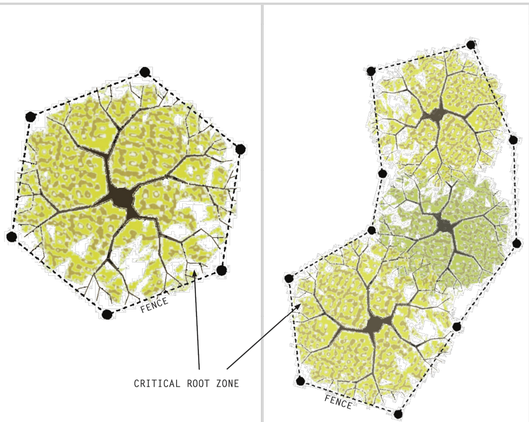
LANDSCAPE ARCHITECT OF RECORD SEAL
REGISTERED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
1	PCC ISSUANCE	10.07.19

DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

TREE DISPOSITION PLAN

PRINCIPAL IN CHARGE JP	PROJECT NUMBER 197250001
PROJECT MANAGER MJ	DATE 09/02/20
PROJECT ENGINEER KN	SHEET NUMBER
SCALE AS SHOWN	L1.0

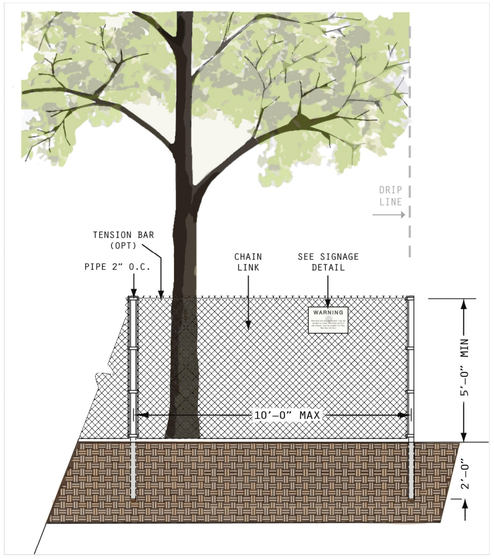


SINGLE TREE | MULTIPLE TREES

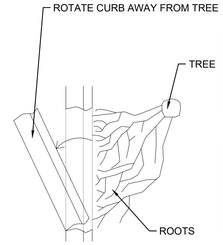
NOTES:

1. Tree protection fencing shall be erected at the edge of the critical root zone or beyond prior to the start of any clearing, grading or other construction activity.
2. Fence shall be minimum 5 feet tall constructed of sturdy material (chain-link or equivalent strength/ durability).
3. Fence shall be supported by vertical posts driven 2 feet (min) into the ground and spaced not more than 10 feet apart.
4. A sign that includes the words, "WARNING: This fence shall not be removed without the expressed permission of the Santa Clara County Planning Office," shall be securely attached to the fence in a visually prominent location.

TREE PROTECTION FENCE DETAIL
PLAN VIEW



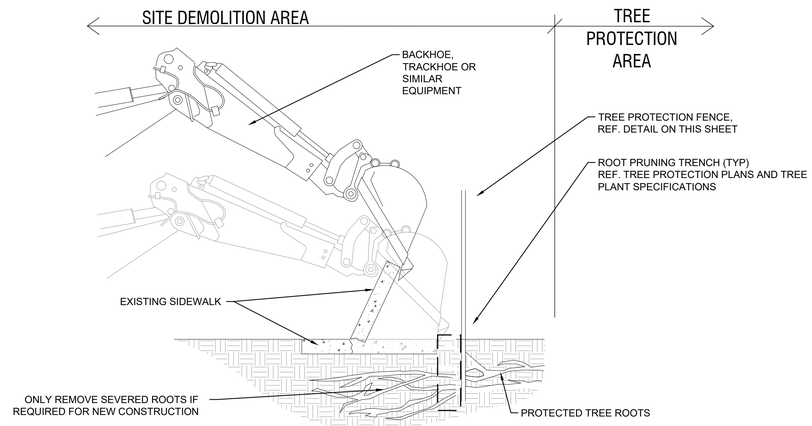
TREE PROTECTION FENCE DETAIL
ELEVATION VIEW



DEMOLITION SEQUENCE:
1. PERFORM ANY ROOT PRUNING.
2. INSTALL TREE PROTECTION FENCING
3. CAREFULLY REMOVE SIDEWALK AND BASE MATERIAL, COORDINATE ALL DEMOLITION OPERATIONS AROUND PROTECTED TREES WITH ENGINEER AND PROJECT ARBORIST.

NOTES:
1. PRIOR TO DEMOLITION ACTIVITIES, COORDINATE WITH OWNER'S REPRESENTATIVE.
2. ALL TREE PROTECTION MEASURES MUST BE IN PLACE AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION ACTIVITIES.
3. OWNER'S REPRESENTATIVE TO APPROVE ANY CANOPY THINNING AND/OR CANOPY RAISING PRUNING TO ALLOW FOR DEMOLITION ACTIVITIES PRIOR TO CONSTRUCTION.

PLAN VIEW



A CURB AND SIDEWALK DEMOLITION W/ LANDSCAPE PROTECTION
NTS

COUNTY OF SANTA CLARA TREE DISPOSITION NOTES

1. FENCING:
   ALL TREES TO BE RETAINED SHALL BE PROTECTED WITH CHAIN LINK FENCING OR OTHER RIGID FENCE ENCLOSURE ACCEPTABLE BY THE PLANNING OFFICE. FENCED ENCLOSURES FOR TREES TO BE PROTECTED SHALL BE ERECTED AT THE DRIPLINE OF TREES OR AS ESTABLISHED BY THE ARBORIST TO ESTABLISH THE TREE PROTECTIVE ZONE (TPZ) IN WHICH NO SOIL DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED.
   ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH MINIMUM 5-FOOT HIGH FENCES ARE TO BE MOUNTED ON 2-INCH DIAMETER GALVANIZED IRON POSTS, DRIVEN INTO THE GROUND TO A DEPTH OF AT LEAST 2 FEET, AT NO MORE THAN 10-FOOT SPACING (SEE DETAIL, AVAILABLE AT WWW.SCCPLANNING.ORG). THIS DETAIL SHALL APPEAR ON GRADING, DEMOLITION AND BUILDING PERMIT PLANS.
   TREE FENCING SHALL BE ERECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
2. "WARNING" SIGNS (SEE SAMPLE SIGNAGE DESIGN THIS SHEET):
   A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH TREE PROTECTIVE FENCE PER THE REQUIREMENTS OF DEVELOPMENT PURSUANT TO THE SANTA CLARA COUNTY PLANNING OFFICE. (SEE ATTACHED EXAMPLE). THE SIGNS ARE AVAILABLE AT THE PLANNING AND BUILDING INSPECTION OFFICES OR AT WWW.SCCPLANNING.ORG.
3. IRRIGATION PROGRAM:
   IRRIGATE TO WET THE SOIL WITHIN THE TPZ DURING THE DRY SEASON AS SPECIFIED BY THE PROJECT ARBORIST.
4. DUST CONTROL PROGRAM:
   DURING PERIODS OF EXTENDED DROUGHT, OR GRADING, SPRAY TRUNK, LIMBS AND FOLIAGE TO REMOVE ACCUMULATED CONSTRUCTION DUST.

WARNING

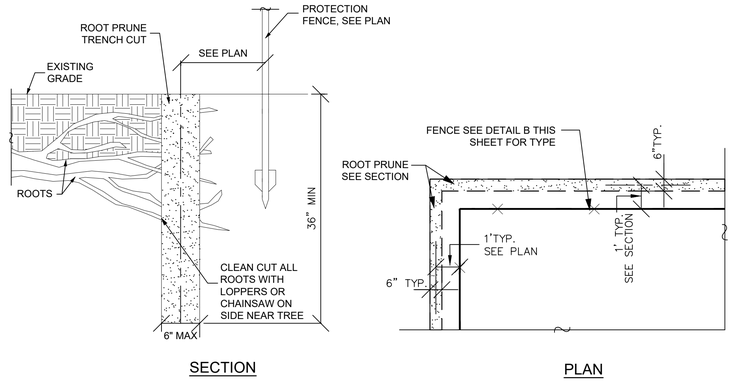
This fencing shall not be removed without permission from the Santa Clara County Planning Office: (408) 299-5770

REMOVAL WITHOUT PERMISSION MAY BE SUBJECT TO FINES

Santa Clara County Ordinance Code Chapter C16

County of Santa Clara tree protection measures may be found at: http://www.sccplanning.gov

WARNING SIGN ON TREE PROTECTIVE FENCE



SECTION | PLAN

B ROOT PRUNING
NTS

DIGITAL REALTY
Data Center Solutions

**2825 LAFAYETTE STREET
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95050-2627**

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
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NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
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DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

TREE DISPOSITION DETAILS

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER: L1.1
SCALE: AS SHOWN	

TREE INVENTORY

Tree #	Species	Latin Name	DBH (in.)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Disposition
1	Evergreen pear	Pyrus kawakamii	17	21.3	Driveway	REMOVE
2	London plane	Platanus x acerifolia	8.9	8.9	Driveway	REMOVE
3	London plane	Platanus x acerifolia	8.5	8.5	Driveway	REMOVE
4	London plane	Platanus x acerifolia	11.9	11.9	Driveway	REMOVE
5	London plane	Platanus x acerifolia	8.2	8.2	Driveway	REMOVE
6	London plane	Platanus x acerifolia	8.6	8.6	Driveway	REMOVE
7	London plane	Platanus x acerifolia	13.4	13.4	Transmission Lines	REMOVE
8	London plane	Platanus x acerifolia	12.8	12.8	Transmission Lines	REMOVE
9	London plane	Platanus x acerifolia	9.2	9.2	Transmission Lines	REMOVE
10	London plane	Platanus x acerifolia	8.8	8.8	Transmission Lines	REMOVE
11	London plane	Platanus x acerifolia	11	11	Transmission Lines	REMOVE
12	London plane	Platanus x acerifolia	12.9	12.9	Transmission Lines	REMOVE
13	London plane	Platanus x acerifolia	13.1	13.1	Transmission Lines	REMOVE
14	London plane	Platanus x acerifolia	11.6	11.6	Transmission Lines	REMOVE
15	London plane	Platanus x acerifolia	12	12	Transmission Lines	REMOVE
16	London plane	Platanus x acerifolia	11.9	11.9	Transmission Lines	REMOVE
17	London plane	Platanus x acerifolia	13.3	13.3	Transmission Lines	REMOVE
18	Purple-leaf plum	Prunus cerasifera	5.9	5.9	Transmission Lines	REMOVE
19	Purple-leaf plum	Prunus cerasifera	5.3	5.3	Transmission Lines	REMOVE
20	Purple-leaf plum	Prunus cerasifera	6.3	6.3	Transmission Lines	REMOVE
21	Purple-leaf plum	Prunus cerasifera	4.8	4.8	Transmission Lines	REMOVE
22	Purple-leaf plum	Prunus cerasifera	6.7	6.7	Transmission Lines	REMOVE
23	Purple-leaf plum	Prunus cerasifera	6.8	6.8	Substation	REMOVE
24	London plane	Platanus x acerifolia	13.1	13.1	Substation	REMOVE
25	London plane	Platanus x acerifolia	9.2	9.2	Substation	REMOVE
26	London plane	Platanus x acerifolia	8	8	None	Retain
27	London plane	Platanus x acerifolia	6.9	6.9	None	Retain
28	London plane	Platanus x acerifolia	11.1	11.1	None	Retain
29	London plane	Platanus x acerifolia	11	11	None	Retain
30	London plane	Platanus x acerifolia	11	11	Civil Improvement	REMOVE
31	London plane	Platanus x acerifolia	14.4	14.4	Retention Area	REMOVE
32	London plane	Platanus x acerifolia	12.5	15.6	Retention Area	REMOVE
33	London plane	Platanus x acerifolia	15.4	15.4	None	Retain
34	London plane	Platanus x acerifolia	13	13	None	Retain
35	London plane	Platanus x acerifolia	15.7	15.7	None	Retain
36	London plane	Platanus x acerifolia	15	15	None	Retain
37	London plane	Platanus x acerifolia	14.8	14.8	None	Retain
38	London plane	Platanus x acerifolia	14.1	14.1	None	Retain
39	London plane	Platanus x acerifolia	14.9	14.9	None	Retain
40	London plane	Platanus x acerifolia	11.1	11.1	None	Retain
41	London plane	Platanus x acerifolia	12.8	12.8	None	Retain
42	London plane	Platanus x acerifolia	5.9	5.9	Driveway	REMOVE
43	London plane	Platanus x acerifolia	7.6	7.6	Substation	REMOVE
44	Raywood ash	Fraxinus angustifolia 'Raywood'	10.4	13	Substation	REMOVE
45	Raywood ash	Fraxinus angustifolia 'Raywood'	13.5	16.9	Substation	REMOVE
46	Raywood ash	Fraxinus angustifolia 'Raywood'	10.8	13.5	Substation	REMOVE
47	Raywood ash	Fraxinus angustifolia 'Raywood'	12.1	15.1	Substation	REMOVE
48	Raywood ash	Fraxinus angustifolia 'Raywood'	12	15	Substation	REMOVE
49	Raywood ash	Fraxinus angustifolia 'Raywood'	10.1	12.6	Substation	REMOVE
50	Raywood ash	Fraxinus angustifolia 'Raywood'	12.6	15.8	Substation	REMOVE
51	London plane	Platanus x acerifolia	8.7	10.9	Substation	REMOVE
52	London plane	Platanus x acerifolia	7.2	9	Substation	REMOVE
53	London plane	Platanus x acerifolia	9.3	9.3	Substation	REMOVE
54	London plane	Platanus x acerifolia	6.8	6.8	Substation	REMOVE
55	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	12.3	Substation	REMOVE
56	Raywood ash	Fraxinus angustifolia 'Raywood'	13.4	16.8	Substation	REMOVE
57	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	16.4	Substation	REMOVE
58	Raywood ash	Fraxinus angustifolia 'Raywood'	7.5	9.4	Substation	REMOVE
59	Raywood ash	Fraxinus angustifolia 'Raywood'	2.1	2.1	Substation	REMOVE
60	London plane	Platanus x acerifolia	5.8	5.8	Substation	REMOVE
61	London plane	Platanus x acerifolia	5.1	5.1	Substation	REMOVE
62	London plane	Platanus x acerifolia	5.6	5.6	Substation	REMOVE
63	London plane	Platanus x acerifolia	7.5	7.5	Substation	REMOVE
64	Raywood ash	Fraxinus angustifolia 'Raywood'	3.8	4.8	Substation	REMOVE
65	Raywood ash	Fraxinus angustifolia 'Raywood'	3	3.8	Substation	REMOVE
66	Raywood ash	Fraxinus angustifolia 'Raywood'	5.6	7	Substation	REMOVE
67	Raywood ash	Fraxinus angustifolia 'Raywood'	7.8	9.8	Substation	REMOVE
68	Raywood ash	Fraxinus angustifolia 'Raywood'	8.7	10.9	Substation	REMOVE
69	Raywood ash	Fraxinus angustifolia 'Raywood'	8.1	10.1	Substation	REMOVE
70	Raywood ash	Fraxinus angustifolia 'Raywood'	9.2	11.5	Driveway	REMOVE
71	London plane	Platanus x acerifolia	6.4	8	Driveway	REMOVE
72	London plane	Platanus x acerifolia	8	8	Driveway	REMOVE
73	London plane	Platanus x acerifolia	9.5	9.5	Driveway	REMOVE
74	London plane	Platanus x acerifolia	8.7	8.7	Driveway	REMOVE
75	London plane	Platanus x acerifolia	6.9	6.9	Driveway	REMOVE
76	London plane	Platanus x acerifolia	9.9	9.9	Driveway	REMOVE
77	London plane	Platanus x acerifolia	9	9	Driveway	REMOVE
78	London plane	Platanus x acerifolia	7.7	7.7	Driveway	REMOVE
79	London plane	Platanus x acerifolia	10.1	10.1	Driveway	REMOVE
80	London plane	Platanus x acerifolia	10.9	10.9	Driveway	REMOVE
81	London plane	Platanus x acerifolia	8.1	8.1	Driveway	REMOVE
82	London plane	Platanus x acerifolia	8.5	8.5	Driveway; PL fence	REMOVE
83	London plane	Platanus x acerifolia	8	8	Driveway; PL fence	REMOVE
84	London plane	Platanus x acerifolia	10	10	Transmission Lines	REMOVE
85	London plane	Platanus x acerifolia	9.6	9.6	Transmission Lines	REMOVE
86	London plane	Platanus x acerifolia	9.2	9.2	Transmission Lines	REMOVE
87	London plane	Platanus x acerifolia	10.9	10.9	Transmission Lines	REMOVE
88	London plane	Platanus x acerifolia	14.9	14.9	Transmission Lines	REMOVE
89	London plane	Platanus x acerifolia	8.2	8.2	Transmission Lines	REMOVE
90	London plane	Platanus x acerifolia	12.4	12.4	Transmission Lines	REMOVE
91	London plane	Platanus x acerifolia	14.6	14.6	Transmission Lines	REMOVE
92	London plane	Platanus x acerifolia	15	15	Transmission Lines	REMOVE
93	London plane	Platanus x acerifolia	15.6	15.6	Transmission Lines	REMOVE
94	London plane	Platanus x acerifolia	16.2	16.2	Transmission Lines	REMOVE
95	London plane	Platanus x acerifolia	19	19	Transmission Lines	REMOVE
96	London plane	Platanus x acerifolia	12	12	Driveway	REMOVE
97	London plane	Platanus x acerifolia	16	16	Driveway	REMOVE
98	Weeping willow	Salix babylonica	35.5	26.6	None	Retain
99	Hackberry	Celtis sp.	9.4	7.1	Building	REMOVE
100	Crape myrtle	Lagerstroemia indica	6.8	5.1	Building	REMOVE
101	Crape myrtle	Lagerstroemia indica	6.8	5.1	Building	REMOVE
102	Callery pear	Pyrus calleryana	8.5	6.4	Building	REMOVE
103	African fern pine	Afrocarpus gracilior	9.7	4.9	Building	REMOVE
104	Callery pear	Pyrus calleryana	7.4	5.6	Building	REMOVE
105	Callery pear	Pyrus calleryana	7.3	5.5	Building	REMOVE
106	Crape myrtle	Lagerstroemia indica	3.6	3.6	Building	REMOVE
107	Ornamental cherry	Prunus sp.	4.6	5.8	Building	REMOVE
108	Crape myrtle	Lagerstroemia indica	5.5	4.1	Generator yard	REMOVE
109	African fern pine	Afrocarpus gracilior	8.4	4.2	Generator yard	REMOVE
110	Crape myrtle	Lagerstroemia indica	5.4	4.1	Generator yard	REMOVE
111	Callery pear	Pyrus calleryana	7.8	5.9	Generator yard	REMOVE
112	Crape myrtle	Lagerstroemia indica	6.2	4.7	Generator yard	REMOVE
113	Callery pear	Pyrus calleryana	10.3	7.7	Generator yard	REMOVE
114	London plane	Platanus x acerifolia	15.5	19.4	Generator yard	REMOVE
115	London plane	Platanus x acerifolia	10	10	Generator yard	REMOVE
116	London plane	Platanus x acerifolia	14.9	18.6	Building	REMOVE
117	London plane	Platanus x acerifolia	10.2	12.8	Building	REMOVE
118	London plane	Platanus x acerifolia	9.7	9.7	Building	REMOVE
119	London plane	Platanus x acerifolia	8.9	8.9	Building	REMOVE
120	Green ash	Fraxinus pennsylvanica	12.8	9.6	Building	REMOVE
121	Green ash	Fraxinus pennsylvanica	12.8	9.6	Building	REMOVE
122	Green ash	Fraxinus pennsylvanica	10.7	8	Building	REMOVE
123	Green ash	Fraxinus pennsylvanica	8.4	6.3	Building	REMOVE
124	Green ash	Fraxinus pennsylvanica	8.5	6.4	Building	REMOVE
125	London plane	Platanus x acerifolia	4.8	7.2	Building	REMOVE
126	London plane	Platanus x acerifolia	14.7	14.7	Building	REMOVE
127	London plane	Platanus x acerifolia	13.1	13.1	Generator yard	REMOVE
128	London plane	Platanus x acerifolia	13.2	13.2	Generator yard	REMOVE
129	London plane	Platanus x acerifolia	7.9	7.9	Generator yard	REMOVE
130	London plane	Platanus x acerifolia	9.2	9.2	Building	REMOVE
131	London plane	Platanus x acerifolia	14.6	14.6	Generator yard	REMOVE
132	London plane	Platanus x acerifolia	11.9	11.9	Generator yard	REMOVE
133	London plane	Platanus x acerifolia	8.3	8.3	Building	REMOVE
134	London plane	Platanus x acerifolia	13	13	Building	REMOVE
135	London plane	Platanus x acerifolia	11.9	11.9	Building	REMOVE
136	Green ash	Fraxinus pennsylvanica	11.6	8.7	Building	REMOVE
137	Green ash	Fraxinus pennsylvanica	13.5	10.1	Building	REMOVE
138	Green ash	Fraxinus pennsylvanica	9.9	7.4	Building	REMOVE
139	Green ash	Fraxinus pennsylvanica	18.3	9.2	Building	REMOVE
140	Green ash	Fraxinus pennsylvanica	12.3	9.2	Driveway	REMOVE
141	Green ash	Fraxinus pennsylvanica	12.8	9.6	Driveway	REMOVE
142	London plane	Platanus x acerifolia	10	10	Driveway	REMOVE
143	London plane	Platanus x acerifolia	15.3	15.3	Building	REMOVE
144	London plane	Platanus x acerifolia	7.2	7.2	Building	REMOVE
145	London plane	Platanus x acerifolia	12.3	12.3	Building	REMOVE
146	London plane	Platanus x acerifolia	9.5	9.5	Driveway	REMOVE
147	London plane	Platanus x acerifolia	8.9	8.9	Driveway	REMOVE
148	London plane	Platanus x acerifolia	9.9	9.9	Driveway	REMOVE
149	London plane	Platanus x acerifolia	9.5	9.5	Driveway	REMOVE
150	London plane	Platanus x acerifolia	13.9	13.9	Building	REMOVE
151	London plane	Platanus x acerifolia	10.1	10.1	Driveway	REMOVE
152	London plane	Platanus x acerifolia	10.5	10.5	Driveway	REMOVE
153	London plane	Platanus x acerifolia	12.1	12.1	Driveway	REMOVE
154	London plane	Platanus x acerifolia	6.3	6.3	Driveway	REMOVE
155	London plane	Platanus x acerifolia	10.3	10.3	Driveway	REMOVE
156	Green ash	Fraxinus pennsylvanica	15.3	7.7	Driveway	REMOVE
157	Green ash	Fraxinus pennsylvanica	6.4	4.8	Driveway	REMOVE
158	London plane	Platanus x acerifolia	11.2	11.2	Building	REMOVE
159	London plane	Platanus x acerifolia	7.5	7.5	Building	REMOVE
160	London plane	Platanus x acerifolia	12.2	12.2	Building	REMOVE
161	London plane	Platanus x acerifolia	13.9	13.9	Building	REMOVE
162	London plane	Platanus x acerifolia	13.7	13.7	Building	REMOVE
163	London plane	Platanus x acerifolia	8.7	8.7	Driveway	REMOVE
164	London plane	Platanus x acerifolia	15.9	15.9	Building	REMOVE
165	London plane	Platanus x acerifolia	11.9	11.9	Building	REMOVE
166	London plane	Platanus x acerifolia	8.5	8.5	Building	REMOVE
167	London plane	Platanus x acerifolia	15.4	15.4	Building	REMOVE
168	London plane	Platanus x acerifolia	11	11	Building	REMOVE
169	Crape myrtle	Lagerstroemia indica	5.2	3.9	Building	REMOVE
170	Crape myrtle	Lagerstroemia indica	5.9	4.4	Building	REMOVE
171	African fern pine	Afrocarpus gracilior	10	5	Building	REMOVE
172	Bay laurel	Laurus nobilis	12.8	9.6	Building	REMOVE
173	Eastern redbud	Cercis canadensis	9.7	7.3	Building	REMOVE
174	Eastern redbud	Cercis canadensis	12.3	9.2	Building	REMOVE
175	Hackberry	Celtis sp.	7	5.3	Building	REMOVE
176	Hackberry	Celtis sp.	6.8	5.1	Building	REMOVE
177	Japanese maple	Acer palmatum	4.5	3.4	Building	REMOVE
178	Japanese maple	Acer palmatum	5	3.8	Building	REMOVE
179	Japanese maple	Acer palmatum	6.7	5	Building	REMOVE
180	Japanese maple	Acer palmatum	8.8	6.6	Building	REMOVE
181	Philodendron	Philodendron sp.	9	6.8	Building	REMOVE
182	Japanese maple	Acer palmatum	4.5	3.4	Building	REMOVE
183	Weeping cherry	Prunus subhirtella 'Pendula'	5	6.3	Building	REMOVE
184	Weeping cherry	Prunus subhirtella 'Pendula'	6	0	N/A (dead)	REMOVE
185	Weeping cherry	Prunus subhirtella 'Pendula'	4.8	3.6	Building	REMOVE
186	Japanese maple	Acer palmatum	4.9	3.7	Building	REMOVE
187	Japanese maple	Acer palmatum	6.3	4.7	Building	REMOVE
188	Japanese maple	Acer palmatum	6.7	5	Building	REMOVE
189	Hackberry	Celtis sp.	5.4	4.1	Building	REMOVE
190	Hackberry	Celtis sp.	7.8	5.9	Building	REMOVE
191	Hackberry	Celtis sp.	4.2	3.2	Building	REMOVE
192	Eastern redbud	Cercis canadensis	11.5	8.6	Building	REMOVE
193	Eastern redbud	Cercis canadensis	11	8.3	Building	REMOVE
194	bay laurel	Laurus nobilis	7.3	5.5	Building	REMOVE
195	Crape myrtle	Lagerstroemia indica	6.6	5	Building	REMOVE
196	Crape myrtle	Lagerstroemia indica	6.6	5	Building	REMOVE
197	Hackberry	Celtis sp.	7	5.3	Building	REMOVE
198	African fern pine	Afrocarpus gracilior	9.9	5	Building	REMOVE
199	Hackberry	Celtis sp.	11	8.3	Building	REMOVE
200	Evergreen pear	Pyrus kawakamii	13.1	16.4	Building	REMOVE
201	Evergreen pear	Pyrus kawakamii	12.7	15.9	Building	REMOVE
202	Raywood ash	Fraxinus angustifolia 'Raywood'	10	12.5	Building	REMOVE
203	Chinese pistache	Pistacia chinensis	9.3	4.7	Building	REMOVE
204	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	10.6	Building	REMOVE
205	Raywood ash	Fraxinus angustifolia 'Raywood'	9.5	11.9	Building	REMOVE
206	Evergreen pear	Pyrus kawakamii	11.8	17.7	Building	REMOVE
207	Evergreen pear	Pyrus kawakamii	10.1	12.6	Building	REMOVE
208	Evergreen pear	Pyrus kawakamii	11.9	14.9	Building	REMOVE
209	Evergreen pear	Pyrus kawakamii	10.2	15.3	Building	REMOVE
210	Unknown	Unknown sp.	6.3	6.3	Building	REMOVE
211	Unknown	Unknown sp.	5.1	5.1	Building	REMOVE
212	White birch	Betula pendula	7.2	9	Building	REMOVE
213	White birch	Betula pendula	9.1	9.1	Building	REMOVE
214	White birch	Betula pendula	5.4	5.4	Building	REMOVE
215	White birch	Betula pendula	7	7	Building	REMOVE
216	Japanese maple	Acer palmatum	6	4.5	Building	REMOVE
217	Japanese maple	Acer palmatum	5.4	4.1	Building	REMOVE
218	Japanese maple	Acer palmatum	6	4.5	Building	REMOVE
219	Weeping cherry	Prunus subhirtella 'Pendula'	6	4.5	Building	REMOVE
220	Japanese maple	Acer palmatum	4.3	3.2	Building	REMOVE
221	Japanese maple	Acer palmatum	7	5.3	Building	REMOVE
222	Weeping cherry	Prunus subhirtella 'Pendula'	4.5	3.4	Building	REMOVE
223	Ornamental cherry	Prunus sp.	4.8	4.8	Building	REMOVE
224	White birch	Betula pendula	6.6	6.6	Building	REMOVE
225	White birch	Betula pendula	8.1	8.1	Building	REMOVE
226	Japanese maple	Acer palmatum	5	3.8	Building	REMOVE
227	White birch	Betula pendula	6.6	6.6	Building	REMOVE
228	White birch	Betula pendula	7.1	7.1	Building	REMOVE
229	Japanese maple	Acer palmatum	5.9	5.9	Building	REMOVE
230	Japanese maple	Acer palmatum	4.4	4.4	Building	REMOVE
231	Japanese maple	Acer palmatum	6	4.5	Building	REMOVE
232	Crape myrtle	Lagerstroemia indica	5.8	4.4	Building	REMOVE
233	Crape myrtle	Lagerstroemia indica	5.6	4.2	Building	REMOVE
234	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	12.3	Building	REMOVE
235	Raywood ash	Fraxinus angustifolia 'Raywood'	13.2	16.5	Building	REMOVE
236	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Driveway	REMOVE
237	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	10.6	Driveway	REMOVE
238	Evergreen pear	Pyrus kawakamii	5.3	6.6	Building	REMOVE
239	Evergreen pear	Pyrus kawakamii	12	15	Building	REMOVE
240	Evergreen pear	Pyrus kawakamii	12.8	16	Building	REMOVE
241	Raywood ash	Fraxinus angustifolia 'Raywood'	14.7	18.4	Building	REMOVE
242	Raywood ash	Fraxinus angustifolia 'Raywood'	12.9	16.1	Building	REMOVE
243	Green ash	Fraxinus pennsylvanica	8	4	Driveway	REMOVE
244	Raywood ash	Fraxinus angustifolia 'Raywood'	5.5	6.9	Driveway	REMOVE
245	London plane	Platanus x acerifolia	16.8	16.8	Driveway	REMOVE
246	Evergreen pear	Pyrus kawakamii	13.2	16.5	Building	REMOVE
247	Chinese pistache	Pistacia chinensis	4.8	2.4	Building	REMOVE
248	Chinese pistache	Pistacia chinensis	5.6	2.8	Building	REMOVE
249	Chinese pistache	Pistacia chinensis	5.6	2.8	Generator yard	REMOVE
250	Raywood ash	Fraxinus angustifolia 'Raywood'	10.7	13.4	Driveway	REMOVE
251	Raywood ash	Fraxinus angustifolia 'Raywood'	12.2	15.3	Driveway	REMOVE
252	London plane	Platanus x acerifolia	9.7	12.1	Transmission Line	REMOVE
253	Evergreen pear	Pyrus kawakamii	8.7	10.9	Driveway	REMOVE
254	Chinese pistache	Pistacia chinensis	3.5	1.8	Generator yard	REMOVE
255	Chinese pistache	Pistacia chinensis	4.6	2.3	Generator yard	REMOVE

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NO.	RECORD	DATE
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1	PCC ISSUANCE	10.07.19

DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

TREE
INVENTORY

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER: L1.2
SCALE: AS SHOWN	

256	Raywood ash	Fraxinus angustifolia 'Raywood'	16.8	21	Generator yard	REMOVE
257	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	16.4	Generator yard	REMOVE
258	Raywood ash	Fraxinus angustifolia 'Raywood'	6.8	8.5	Retention area	REMOVE
259	Evergreen pear	Pyrus kawakamii	14.7	18.4	Civil Improvement	REMOVE
260	Evergreen pear	Pyrus kawakamii	11.6	14.5	Civil Improvement	REMOVE
261	Evergreen pear	Pyrus kawakamii	16.6	20.8	Driveway	REMOVE
262	Evergreen pear	Pyrus kawakamii	15.8	19.8	Driveway	REMOVE
263	Raywood ash	Fraxinus angustifolia 'Raywood'	16.6	20.8	Driveway	REMOVE
264	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Transmission Lines	REMOVE
265	London plane	Platanus x acerifolia	8.2	10.3	Transmission Lines	REMOVE
266	Evergreen pear	Pyrus kawakamii	15.1	18.9	Transmission Lines	REMOVE
267	Evergreen pear	Pyrus kawakamii	12.6	15.8	Transmission Lines	REMOVE
268	Evergreen pear	Pyrus kawakamii	4.8	6	Driveway	REMOVE
269	Evergreen pear	Pyrus kawakamii	14.3	17.9	Driveway	REMOVE
270	Raywood ash	Fraxinus angustifolia 'Raywood'	16.1	20.1	Driveway	REMOVE
271	Raywood ash	Fraxinus angustifolia 'Raywood'	13.8	20.7	Transmission Lines	REMOVE
272	Raywood ash	Fraxinus angustifolia 'Raywood'	13.6	17	Transmission Lines	REMOVE
273	London plane	Platanus x acerifolia	8.9	8.9	Transmission Lines	REMOVE
274	Raywood ash	Fraxinus angustifolia 'Raywood'	13	16.3	None	Retain
275	Raywood ash	Fraxinus angustifolia 'Raywood'	9.2	13.8	Transmission Lines	REMOVE
276	Raywood ash	Fraxinus angustifolia 'Raywood'	12.1	15.1	Transmission Lines	REMOVE
277	Crape myrtle	Lagerstroemia indica	5.1	3.8	Building	REMOVE
278	Crape myrtle	Lagerstroemia indica	5.4	4.1	Building	REMOVE
279	Crape myrtle	Lagerstroemia indica	5.9	4.4	Building	REMOVE
280	Crape myrtle	Lagerstroemia indica	4.3	3.2	Building	REMOVE
281	Crape myrtle	Lagerstroemia indica	5.5	4.1	Building	REMOVE
282	African fern pine	Afrocarpus gracilior	6.2	3.1	Building	REMOVE
283	African fern pine	Afrocarpus gracilior	8.1	4.1	Building	REMOVE
284	African fern pine	Afrocarpus gracilior	8.5	4.3	Building	REMOVE
285	African fern pine	Afrocarpus gracilior	8.9	4.5	Building	REMOVE
286	African fern pine	Afrocarpus gracilior	7.7	3.9	Building	REMOVE
287	Ornamental cherry	Prunus sp.	4	4	Building	REMOVE
288	Ornamental cherry	Prunus sp.	4.4	4.4	Building	REMOVE
289	Smoke tree	Cotinus coggygria	5.8	4.4	Building	REMOVE
290	Smoke tree	Cotinus coggygria	6	4.5	Building	REMOVE
291	Crape myrtle	Lagerstroemia indica	6.1	4.6	Building	REMOVE
292	Crape myrtle	Lagerstroemia indica	5.1	3.8	Building	REMOVE
293	Crape myrtle	Lagerstroemia indica	6	4.5	Generator yard	REMOVE
294	African fern pine	Afrocarpus gracilior	9	4.5	Generator yard	REMOVE
295	Crape myrtle	Lagerstroemia indica	5.8	4.4	Generator yard	REMOVE
296	Crape myrtle	Lagerstroemia indica	7.2	5.4	Generator yard	REMOVE
297	African fern pine	Afrocarpus gracilior	8.9	4.5	Generator yard	REMOVE
298	African fern pine	Afrocarpus gracilior	9	4.5	Generator yard	REMOVE
299	African fern pine	Afrocarpus gracilior	6.9	3.5	Generator yard	REMOVE
300	Crape myrtle	Lagerstroemia indica	5.7	4.3	Generator yard	REMOVE
301	Crape myrtle	Lagerstroemia indica	5.1	3.8	Generator yard	REMOVE
302	Crape myrtle	Lagerstroemia indica	5.2	3.9	Generator yard	REMOVE
303	Ornamental cherry	Prunus sp.	4.2	3.2	Generator yard	REMOVE
304	African fern pine	Afrocarpus gracilior	10.8	5.4	Driveway	REMOVE
305	Pygmy date palm	Phoenix robelenii	4.6	4.6	Driveway	REMOVE
306	Pygmy date palm	Phoenix robelenii	4.5	4.5	Driveway	REMOVE
307	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	10.3	Driveway	REMOVE
308	Chinese pistache	Pistacia chinensis	14.1	7.1	Driveway	REMOVE
309	Evergreen pear	Pyrus kawakamii	14.7	18.4	Driveway	REMOVE
310	Evergreen pear	Pyrus kawakamii	15	18.8	Driveway	REMOVE
311	Evergreen pear	Pyrus kawakamii	10.8	13.5	Driveway	REMOVE
312	Evergreen pear	Pyrus kawakamii	15.4	19.3	Driveway	REMOVE
313	Raywood ash	Fraxinus angustifolia 'Raywood'	18.3	22.9	Driveway	REMOVE
314	Chinese pistache	Pistacia chinensis	5.1	2.6	None	Retain
315	Crape myrtle	Lagerstroemia indica	4.5	3.4	None	Retain
316	Weeping willow	Salix babylonica	15.8	11.9	Driveway	REMOVE
317	Ornamental cherry	Prunus sp.	8.9	6.7	Driveway	REMOVE
318	Ornamental cherry	Prunus sp.	11.2	8.4	Driveway	REMOVE
319	Ornamental cherry	Prunus sp.	7.4	5.6	Driveway	REMOVE
320	Ornamental cherry	Prunus sp.	6.2	4.7	Concrete path	REMOVE
321	Ornamental cherry	Prunus sp.	5.4	4.1	Civil Improvement	REMOVE
322	Ornamental cherry	Prunus sp.	9	6.8	Driveway	REMOVE
323	Ornamental cherry	Prunus sp.	8.8	6.6	Driveway	REMOVE
324	Ornamental cherry	Prunus sp.	10.1	7.6	Driveway	REMOVE
325	White birch	Betula pendula	10.3	10.3	Driveway	REMOVE
326	China doll tree	Radermachera sinica	5.5	5.5	Driveway	REMOVE
327	China doll tree	Radermachera sinica	4.8	4.8	Driveway	REMOVE
328	China doll tree	Radermachera sinica	6	6	Civil Improvement	REMOVE
329	Ornamental cherry	Prunus sp.	11.1	8.3	None	Retain
330	Ornamental cherry	Prunus sp.	17.8	13.4	Concrete path	REMOVE
331	Ornamental cherry	Prunus sp.	7.9	5.9	Concrete path	REMOVE
332	Ornamental cherry	Prunus sp.	7.8	5.9	Concrete path	REMOVE
333	Ornamental cherry	Prunus sp.	12	9	None	Retain
334	Ornamental cherry	Prunus sp.	12.5	9.4	None	Retain

335	Ornamental cherry	Prunus sp.	8.5	6.4	Driveway	REMOVE
336	Hackberry	Celtis sp.	4.1	3.1	Driveway	REMOVE
337	Peruvian pepper	Schinus molle	12	9	Driveway	REMOVE
338	London plane	Platanus x acerifolia	24	24	Transmission Lines	REMOVE
339	Red ironbark	Eucalyptus sideroxylon	15.1	15.1	Transmission Lines	REMOVE
340	Red ironbark	Eucalyptus sideroxylon	19	0	N/A (dead)	REMOVE
341	Holly oak	Quercus ilex	10.2	5.1	Transmission Lines	REMOVE
342	Red ironbark	Eucalyptus sideroxylon	18.8	18.8	Transmission Lines	REMOVE
343	Peruvian pepper	Schinus molle	11.2	8.4	Transmission Lines	REMOVE
344	Red ironbark	Eucalyptus sideroxylon	19.2	19.2	Transmission Lines	REMOVE
345	Red ironbark	Eucalyptus sideroxylon	19.3	14.5	Transmission Lines	REMOVE
346	Red ironbark	Eucalyptus sideroxylon	23.7	11.9	Transmission Lines	REMOVE
347	Red ironbark	Eucalyptus sideroxylon	24.7	12.4	Transmission Lines	REMOVE
348	Blackwood acacia	Acacia melanoxylon	15.6	7.8	Transmission Lines	REMOVE
349	Red ironbark	Eucalyptus sideroxylon	25.1	12.6	Transmission Lines	REMOVE
350	Red ironbark	Eucalyptus sideroxylon	18.9	14.2	Transmission Lines	REMOVE
351	Red ironbark	Eucalyptus sideroxylon	30	15	Transmission Lines	REMOVE
352	Red ironbark	Eucalyptus sideroxylon	25.6	19.2	Transmission Lines	REMOVE
353	Evergreen pear	Pyrus kawakamii	18	18	Transmission Lines	REMOVE
354	Italian cypress	Cupressus sempervirens	12	9	Transmission Lines	REMOVE
355	Italian cypress	Cupressus sempervirens	13.8	10.4	None	Retain
356	Italian cypress	Cupressus sempervirens	12.5	9.4	None	Retain
357	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
358	Italian cypress	Cupressus sempervirens	9.5	7.1	None	Retain
359	Italian cypress	Cupressus sempervirens	8	6	None	Retain
360	Red ironbark	Eucalyptus sideroxylon	32.1	16.1	None	Retain
361	Italian cypress	Cupressus sempervirens	8	6	None	Retain
362	Italian cypress	Cupressus sempervirens	10	7.5	None	Retain
363	Italian cypress	Cupressus sempervirens	12	9	None	Retain
364	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
365	Italian cypress	Cupressus sempervirens	3	2.3	None	Retain
366	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
367	Italian cypress	Cupressus sempervirens	12	9	None	Retain
368	Italian cypress	Cupressus sempervirens	13	9.8	None	Retain
369	Italian cypress	Cupressus sempervirens	12	9	None	Retain
370	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
371	Italian cypress	Cupressus sempervirens	2	1.5	None	Retain
372	Italian cypress	Cupressus sempervirens	13.5	10.1	None	Retain
373	Italian cypress	Cupressus sempervirens	12.3	9.2	None	Retain
374	Italian cypress	Cupressus sempervirens	11.3	8.5	None	Retain
375	Italian cypress	Cupressus sempervirens	11.7	8.8	None	Retain
376	Italian cypress	Cupressus sempervirens	12.1	9.1	None	Retain
377	Italian cypress	Cupressus sempervirens	12.2	9.2	None	Retain
378	Italian cypress	Cupressus sempervirens	11.1	8.3	None	Retain
379	Italian cypress	Cupressus sempervirens	10.9	8.2	None	Retain
380	Italian cypress	Cupressus sempervirens	10.5	7.9	None	Retain
381	Italian cypress	Cupressus sempervirens	12	9	None	Retain
382	Italian cypress	Cupressus sempervirens	11.2	8.4	None	Retain
383	Italian cypress	Cupressus sempervirens	12	9	None	Retain
384	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
385	Italian cypress	Cupressus sempervirens	9.9	7.4	None	Retain
386	Italian cypress	Cupressus sempervirens	6.7	5	None	Retain
387	Italian cypress	Cupressus sempervirens	7.4	5.6	None	Retain
388	Italian cypress	Cupressus sempervirens	8.9	6.7	None	Retain
389	Italian cypress	Cupressus sempervirens	10.4	7.8	None	Retain
390	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
391	Italian cypress	Cupressus sempervirens	12	9	None	Retain
392	Italian cypress	Cupressus sempervirens	11.7	8.8	None	Retain
393	Italian cypress	Cupressus sempervirens	13	9.8	None	Retain
394	Italian cypress	Cupressus sempervirens	11.4	8.6	None	Retain
395	Italian cypress	Cupressus sempervirens	12.5	9.4	None	Retain
396	Italian cypress	Cupressus sempervirens	11	8.3	None	Retain
397	Italian cypress	Cupressus sempervirens	11.5	8.6	None	Retain
398	Italian cypress	Cupressus sempervirens	8.7	6.5	None	Retain
399	Blackwood acacia	Acacia melanoxylon	12	6	None	Retain
400	Blackwood acacia	Acacia melanoxylon	8	4	None	Retain
401	Blackwood acacia	Acacia melanoxylon	14.6	7.3	None	Retain
402	Italian cypress	Cupressus sempervirens	7.1	5.3	None	Retain
403	Blackwood acacia	Acacia melanoxylon	11.1	5.6	None	Retain
404	Blackwood acacia	Acacia melanoxylon	4.6	2.3	None	Retain
405	Blackwood acacia	Acacia melanoxylon	7.3	3.7	None	Retain
406	Blackwood acacia	Acacia melanoxylon	6.2	3.1	None	Retain
407	Red ironbark	Eucalyptus sideroxylon	31.2	15.6	None	Retain
408	Blackwood acacia	Acacia melanoxylon	5.7	2.9	None	Retain
409	Blackwood acacia	Acacia melanoxylon	18.8	9.4	None	Retain
410	Blackwood acacia	Acacia melanoxylon	8.7	4.4	None	Retain
411	Red ironbark	Eucalyptus sideroxylon	24	0	N/A (dead)	REMOVE
412	Red ironbark	Eucalyptus sideroxylon	23.4	11.7	None	Retain
413	Blackwood acacia	Acacia melanoxylon	21.8	10.9	None	Retain
414	Red ironbark	Eucalyptus sideroxylon	24	0	N/A (dead)	REMOVE
415	Blackwood acacia	Acacia melanoxylon	22.5	11.3	None	Retain
416	Red ironbark	Eucalyptus sideroxylon	28.7	14.4	None	Retain
417	London plane	Platanus x acerifolia	8.4	8.4	None	Retain
418	London plane	Platanus x acerifolia	10.5	10.5	None	Retain
419	London plane	Platanus x acerifolia	10.2	10.2	None	Retain

420	Callery pear	Pyrus calleryana	10.2	7.7	Driveway	REMOVE
421	Callery pear	Pyrus calleryana	10.5	7.9	Driveway	REMOVE
422	Callery pear	Pyrus calleryana	10.7	8	Driveway	REMOVE
423	Callery pear	Pyrus calleryana	10	10	Driveway	REMOVE
424	Callery pear	Pyrus calleryana	8.4	6.3	Driveway	REMOVE
425	Callery pear	Pyrus calleryana	11.6	8.7	Driveway	REMOVE
426	Crape myrtle	Lagerstroemia indica	7.6	5.7	Driveway	REMOVE
427	Crape myrtle	Lagerstroemia indica	7.3	5.5	Driveway	REMOVE
428	Crape myrtle	Lagerstroemia indica	6.5	4.9	Driveway	REMOVE
429	Crape myrtle	Lagerstroemia indica	7.6	5.7	Driveway	REMOVE
430	Ornamental cherry	Prunus sp.	4.1	5.1	Driveway	REMOVE
431	Crape myrtle	Lagerstroemia indica	7.4	5.6	Driveway	REMOVE
432	Crape myrtle	Lagerstroemia indica	5.4	4.1	Driveway	REMOVE
433	Crape myrtle	Lagerstroemia indica	7.1	5.3	Driveway	REMOVE
434	White birch	Betula pendula	6.4	6.4	None	Retain
435	White birch	Betula pendula	8.8	8.8	None	Retain
436	Japanese maple	Acer palmatum	6.1	4.6	None	Retain
437	White birch	Betula pendula	8.1	8.1	None	Retain
438	White birch	Betula pendula	9.9	9.9	None	Retain
439	White birch	Betula pendula	10.6	10.6	None	Retain
440	Weeping willow	Salix babylonica	21.8	16.4	Driveway	REMOVE
441	Eastern redbud	Cercis canadensis	6.2	4.7	Building	REMOVE
442	Eastern redbud	Cercis canadensis	6.5	4.9	Building	REMOVE
443	Eastern redbud	Cercis canadensis	5.3	4	None	Retain
444	Eastern redbud	Cercis canadensis	6.2	4.7	None	Retain
445	Japanese maple	Acer palmatum	4.7	3.5	None	Retain
446	Ornamental cherry	Prunus sp.	9.2	6.9	Generator yard	REMOVE
447	Ornamental cherry	Prunus sp.	5.9	4.4	Generator yard	REMOVE
448	Weeping willow	Salix babylonica	21.4	16.1	Generator yard	REMOVE
449	White birch	Betula pendula	12.8	12.8	None	Retain
450	Ornamental cherry	Prunus sp.	7.8	5.9	Driveway	REMOVE
451	Ornamental cherry	Prunus sp.	7.5	5.6	Driveway	REMOVE
452	Ornamental cherry	Prunus sp.	7.4	5.6	Driveway	REMOVE
453	Ornamental cherry	Prunus sp.	5.4	4.1	Driveway	REMOVE
454	Eastern redbud	Cercis canadensis	6.8	5.1	None	Retain
455	Eastern redbud	Cercis canadensis	5.2	3.9	None	Retain
456	Ornamental cherry	Prunus sp.	6	4.5	Generator yard	REMOVE
457	Ornamental cherry	Prunus sp.	7	5.3	Generator yard	REMOVE
458	White birch	Betula pendula	4.8	4.8	Building	REMOVE
459	White birch	Betula pendula	7.1	7.1	Building	REMOVE
460	White birch	Betula pendula	4.7	4.7	Building	REMOVE
461	Eastern redbud	Cercis canadensis	5.5	4.1	Building	REMOVE
462	Eastern redbud	Cercis canadensis	4.2	3.2	Building	REMOVE
463	Eastern redbud	Cercis canadensis	4.9	3.7	Generator yard	REMOVE
464	Ornamental cherry	Prunus sp.	7.5	5.6	Generator yard	REMOVE
465	Crape myrtle	Lagerstroemia indica	5.1	3.8	Generator yard	REMOVE
466	Crape myrtle	Lagerstroemia indica	5	3.8	Generator yard	REMOVE
467	Crape myrtle	Lagerstroemia indica	4.9	3.7	Generator yard	REMOVE
468	Ornamental cherry	Prunus sp.	6.1	4.6	Generator yard	REMOVE
469	Ornamental cherry	Prunus sp.	5.1	3.8	Generator yard	REMOVE
470	Ornamental cherry	Prunus sp.	9.1	6.8	Generator yard	REMOVE
471	White birch	Betula pendula	7.4	7.4	None	Retain
472	Crape myrtle	Lagerstroemia indica	5	3.8	None	Retain
473	Crape myrtle	Lagerstroemia indica	5.1	3.8	None	Retain
474	Crape myrtle	Lagerstroemia indica	5.1	3.8	None	Retain
475	Crape myrtle	Lagerstroemia indica	5.9	4.4	Driveway	REMOVE
476	Crape myrtle	Lagerstroemia indica	6.3	4.7	Driveway	REMOVE

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1	PCC ISSUANCE	10.07.19

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TREE INVENTORY

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER
SCALE: AS SHOWN	L1.3

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7/28/2020

Chad Mendell
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Re: Tree Impacts from Proposed Development Project at 2825 Lafayette Street in Santa Clara

Dear Chad,

At your request, I have visited the property referenced above to evaluate the trees present with respect to the proposed construction project. The report below contains my analysis.

Summary

There are 476 trees on the project site, of which 377 are recommended for removal. Three hundred seventy-three of these conflict directly with project features, two are dead, and two are stumps of trees which were removed in the past, not in connection with this project.

Other trees may need to be removed for utility installation; however, no utilities are shown on the plans provided to me.

Assignment:

We have been asked to write a report detailing impacts to trees from construction of the proposed building, substation, and parking lot redesign at this address.

Introduction:

Many factors influence how a tree will respond to impacts from construction activities, including the extent of the activity; tree species; and tree vigor. Construction plans should accommodate trees insofar as practical, with the intent of preserving as many trees as reasonably possible.

Limits of the Assignment:

All observations were made from the ground. No root collar excavations or aerial inspections were performed.

No utilities, grading, or feature specifications are shown on the plans provided to me. I expect additional tree impacts will result from some or all of these factors.

No project features had been staked at the time of my site visit.

Purpose & Use of the Report:

This report is intended to inform tree management decisions for this project.

Observations:

Trees

Four hundred seventy-six trees are present. The five most common species are: London plane (*Platanus* x *acerifolia*), with 121 (25%); Italian cypress (*Cupressus sempervirens*), with 44 (9%); Raywood ash (*Fraxinus angustifolia* ‘Raywood’), with 44 (9%); crape myrtle (*Lagerstroemia indica*), with 41 (9); and ornamental cherries (*Prunus* spp.), with 32 (7%).

Four trees are dead. Two of these were removed prior to my site visit, though their stumps remain.

Many trees are in small planters surrounded by hardscape.

Orange tape was present around several tree trunks at the time of my site visit, as noted in the Tree Table. I do not know the significance of this tape; it is possible that the trees are slated for removal or pruning by others.

Project Features

A new building will be constructed in the north part of the property, with a generator yard to the south. A new substation will be constructed in the southwest part of the property. New transmission lines will be installed along the east and west property lines. Most parking lot and driving areas will be redesigned.

The existing building in the south part of the property will remain.

Tree Impacts

Four hundred three trees conflict directly with proposed project features (not including dead trees). Conflicting features are listed in the following table:

Conflicting Feature	Live Trees to be Removed	%
Building	139.0	37%
Civil improvement	1.0	0%
Concrete path	5.0	1%
Demolition	0.0	0%
Driveway	98.0	26%
Generator yard	42.0	11%
None	0.0	0%
Transmission lines	51.0	14%
Property line fence	0.0	0%
Retention area	10.0	3%
Substation	27.0	7%

Of the 99 trees to remain, all are in good condition.

Many of the trees to remain will likely be impacted by project activities as detailed in the following tables:

Impacting Feature	Trees to be Retained	%
Building	0.0	0%
Civil improvement	0.0	0%
Concrete path	3.0	3%
Demolition	0.0	0%
Driveway	1.0	1%
Generator yard	0.0	0%
None	92.0	93%
Transmission lines	0.0	0%
Property line fence	1.0	1%
Retention area	2.0	2%
Substation	0.0	0%

Likely Impact level	Trees to be Retained	%
Minor	99	100 %
Minor-moderate	0	0%
Moderate	0	0%
Moderate-major	0	0%
Major	0	0%

Testing & Analysis:

Tree DBHs[1] were taken using a diameter tape measure if trunks were accessible. The DBHs of trees with non-accessible trunks were estimated visually. All trees over four inches in DBH were inventoried, with some smaller trees included if prominently located.

Vigor ratings are based on tree appearance and experiential knowledge of each species.

Tree location data was collected using a GPS smartphone application and processed in GIS software to create the maps included in this report. Due to slight differences between GPS data and CAD drawings, tree locations shown on the map below are approximate.

I visited the site on 5/31/2019, 6/1/2019, and 6/3/2019. All observations and photographs in this report were taken at those site visits.

This report is based on sheet A1.1 of the plan set titled “Master Plan: Proposed New Site Plan,” provided to me electronically by the client. No utilities, grading, or feature specifications were provided.

[1] Diameter at breast height, a standard arboricultural metric

Discussion:

Critical Root Zone (CRZ)

Tree roots grow where conditions are favorable, and their spatial arrangement is therefore unpredictable. Favorable conditions vary among species, but generally include the presence of moisture, and soft soil texture with low compaction.

Contrary to popular belief, roots of all tree species grow primarily in the top two feet of soil, with a small number of roots sometimes occurring at greater depths. Some species have taproots when young, but these almost universally disappear with age. At maturity, a tree’s root system may extend out from the trunk farther than the tree is tall.

The optimal size of the area around a tree which should be protected from disturbance depends on the tree’s size, species, and vigor, as shown in the following table (adapted from *Trees & Construction*, Matheny and Clark, 1998)[2]:

Species tolerance	Tree vigor	Distance from trunk (feet per inch trunk diameter)
Good	High	0.5
	Moderate	0.75
	Low	1
Moderate	High	0.75
	Moderate	1
	Low	1.25
Poor	High	1
	Moderate	1.25
	Low	1.5

Species-Specific Issues

Some tree species on this property exhibit disease symptoms that, while unsightly, indicate common issues which can be managed with proper ongoing care. These trees were given higher health ratings than may appear reasonable without knowledge of these issues.

Raywood ash - these trees are susceptible to a syndrome called ash dieback. Though the exact causes remain unknown, disease susceptibility and drought stress appear to be major factors. This syndrome cannot be cured, but can only be managed through irrigation and regular removal of deadwood.

[2] Matheny and Clark use tree age instead of vigor; however, vigor is a stronger predictor of a tree’s response to wounding.

Callery pear - all pear trees, but especially Callery pear (*Pyrus calleryana*), are susceptible to a bacterial disease called fireblight (*Erwinia amylovora*). Fireblight infection causes progressive dieback, starting with buds and spreading to entire limbs.

Evergreen pear - a disease called leaf spot (*Entomosporium mespili*) causes copious black spots on the leaves of evergreen pear trees (*Pyrus kawakamii*). This disease is primarily aesthetic, though some infected trees may drop of one or more crops of leaves per year.

Conclusions:

Three hundred seventy-three trees must be removed in order for the project to move forward as currently proposed. Two others must be removed irrespective of project features, as they are dead. Another two were removed prior to my site visit, and only the stumps remain.

The remaining 99 trees can reasonably be protected, with a high likelihood of survival during and after construction.

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ARBORIST REPORT

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER: L1.4
SCALE: AS SHOWN	

Recommendations:

1. Remove trees #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476, upon approval from the City of Santa Clara.
2. Remove deadwood from remaining Callery pears and Raywood ashes. This will benefit both tree health and worker safety.
3. All tree work must be performed by trained tree care personnel under the direction of an International Society of Arboriculture Certified Arborist.
4. Alert the Project Arborist when new drawings are available showing grading, utilities, retention area details, or material changes to project features.
5. Install tree protection fencing prior to any demolition equipment coming onsite.
    a. Install fencing at or outside the tree protection areas of all trees to be retained, shown on the map below.
    b. Where existing pavement is within tree protection zones, install tree protection fencing at the edge of pavement. After demolition, move tree protection fencing to the edge of the tree protection area.
    c. Where proposed features shown on the map included below lie within tree protection areas, install tree protection fencing at the edge of the features.
    d. For areas where no construction will occur, tree protection fencing may be installed at the perimeter of the area instead of around each tree individually.
    e. Spread wood chips at least four inches thick within tree protection fencing.
6. For existing hardscape to be demolished within tree protection zones:
    a. Demolish the area nearest the tree first, and work outwards.
    b. Do not operate machinery on unpaved areas within tree protection zones.
    c. Upon completion of demolition, move tree protection fencing to be at or outside the tree protection area.
7. Minimize grading near trees. Do not perform any grading inside tree protection fencing.
8. If live roots over one inch in diameter are encountered at any time, in any location, they must be pruned with a sharp saw or bypass pruners, as close to the edge of the excavation as possible. If roots over three inches in diameter are encountered, do not prune, but instead contact the Project Arborist to determine the best course of action.
9. Irrigate all trees to be retained on a monthly basis with potable water, in the absence of heavy rain.
    a. Irrigate using a soaker hose placed as close to tree driplines as practical. Irrigate for 2-4 hours at a very low flow. If this causes runoff, reduce the flow rate. If this is impractical for any tree for any reason, contact the Project Arborist.

ASSUMPTIONS AND LIMITING CONDITIONS

1. Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as though free and clear, under responsible ownership and competent management.
2. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes, or other government regulations.
3. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.
4. The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
5. Loss, alteration, or reproduction of any part of this report invalidates the entire report.
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7. Neither all nor any part of this report, nor any copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant/appraiser particularly as to value conclusions, identity of the consultant/appraiser, or any reference to any professional society or initialed designation conferred upon the consultant/appraiser as stated in his qualification.
8. This report and the values expressed herein represent the opinion of the consult/appraiser, and the consult/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
9. Sketches, diagrams, graphs, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys.
10. Unless expressed otherwise - 1) information in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and 2) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in future.

Respectfully submitted,

Katherine Naegele
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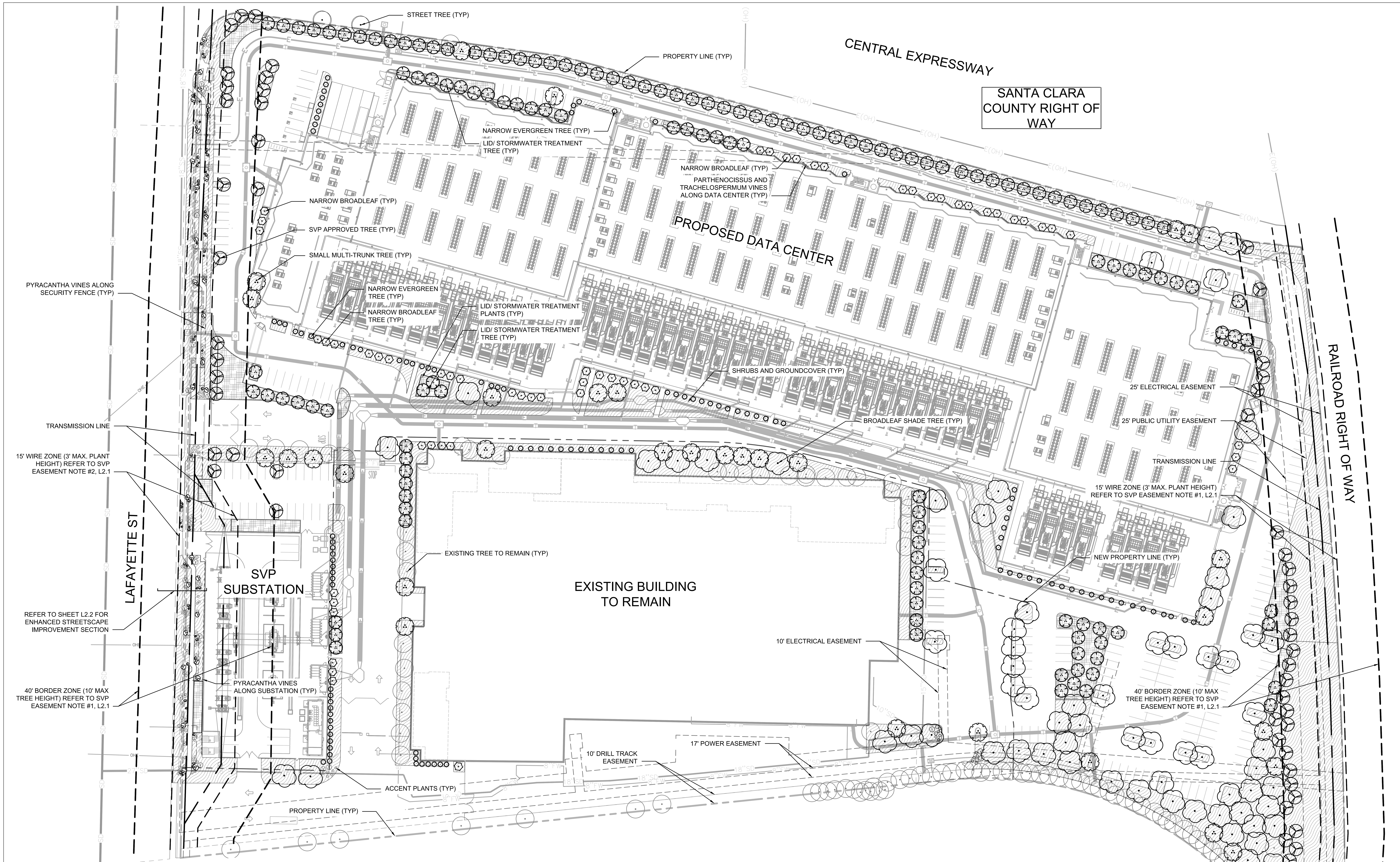
ARBORIST REPORT

PRINCIPAL IN CHARGE JP	PROJECT NUMBER 197250001
PROJECT MANAGER MJ	DATE 09/02/20
PROJECT ENGINEER KN	SHEET NUMBER L1.5
SCALE AS SHOWN	

\\SJCFP01\CA_SJC\Project\BAY_LDEV\197250001 - DLR Data Center (Lafayette St.) - MRJ\CAD\Exhibits\Entitlement Drawings\L1.0 PRELIM TREE DISPOSITION PLAN OPT 2.dwg 9/2/2020 6:11 PM Michael.Thomsen



PRELIMINARY LANDSCAPE LEGEND: (REFERENCE PLAN L2.1 FOR COMPLETE PLANT SCHEDULE)

TREES	QTY	DESCRIPTION	CONT.
(symbol)	99	EXISTING TREE TO REMAIN	N/A
(symbol)	2	STREET TREE	24" BOX
(symbol)	135	LID/STORMWATER TREATMENT TREE	24" BOX
(symbol)	70	BROADLEAF SHADE TREE	36" BOX

TREES	QTY	DESCRIPTION	CONT.
(symbol)	60	SVP APPROVED TREE	36" BOX
(symbol)	124	NARROW EVERGREEN TREE	36" BOX
(symbol)	34	SMALL MULTI-TRUNK TREE	36" BOX
(symbol)	58	NARROW BROADLEAF TREE	24" BOX

GROUNDCOVER	QTY	DESCRIPTION	CONT.
(symbol)		SHRUBS AND GROUNDCOVER	1 GAL
(symbol)		LID/STORMWATER TREATMENT PLANTS	1 GAL
(symbol)		ACCENT PLANTS	1 GAL
(symbol)		VINES	1 GAL
(symbol)		LANDSCAPE BOULDERS	

TREE MITIGATION / REPLACEMENT	
TREES REMOVED	375
24" BOX SIZED TREES REQUIRED OR 36" BOX SIZED TREES REQUIRED	750 OR 375
NEW 24" BOX SIZED TREES (REPLACES 97 TREES)	195
NEW 36" BOX SIZED TREES (REPLACES 288 TREES)	288
SURPLUS OF ADDITIONAL NEW TREES	10

NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

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LANDSCAPE PLAN

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER
SCALE: AS SHOWN	L2.0

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PRELIMINARY LANDSCAPE SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT.	SPACING	WUCOLS
	99	EXISTING TREE TO REMAIN	N/A	N/A	N/A
		STREET TREES MAY CONSIST OF THE FOLLOWING:			
	2	CEDRUS DEODARA / DEODAR CEDAR	24" BOX	AS SHOWN	LOW
		LID/STORMWATER TREATMENT TREE MAY CONSIST OF THE FOLLOWING:			
	135	CERCIS OCCIDENTALIS / WESTERN REDBUD MULTI-TRUNK	24" BOX	AS SHOWN	V. LOW
		LAURUS NOBILIS 'SARATOGA' / BAY LAUREL	24" BOX	AS SHOWN	LOW
		BROADLEAF SHADE TREE MAY CONSIST OF THE FOLLOWING:			
	70	CINNAMOMUM CAMPHORA / CAMPHOR TREE	36" BOX	AS SHOWN	MOD
		PISTACIA CHINENSIS / CHINESE PISTACHE	36" BOX	AS SHOWN	LOW
		TILIA CORDATA / LITTLELEAF LINDEN	36" BOX	AS SHOWN	MOD
		QUERCUS ILEX / HOLLY OAK	36" BOX	AS SHOWN	LOW
		SVP APPROVED TREE MAY CONSIST OF THE FOLLOWING:			
	60	GLEDITSIA TRIACANTHOS F. INERMIS / THORNLESS HONEY LOCUST	36" BOX	AS SHOWN	LOW
		NARROW EVERGREEN TREE MAY CONSIST OF THE FOLLOWING:			
	124	CUPRESSUS SEMPERVIRENS / ITALIAN CYPRESS	36" BOX	AS SHOWN	LOW
		SMALL TREE MAY CONSIST OF THE FOLLOWING			
	34	CERCIS OCCIDENTALIS / WESTERN REDBUD MULTI-TRUNK	36" BOX	AS SHOWN	V. LOW
		LAGERSTROEMIA X 'TUSKEGEE' / TUSKEGEE CRAPE MYRTLE	36" BOX	AS SHOWN	LOW
		LAURUS NOBILIS 'SARATOGA' / BAY LAUREL	36" BOX	AS SHOWN	LOW
		NARROW BROADLEAF TREE MAY CONSIST OF THE FOLLOWING:			
	58	ACER RUBRUM 'BOWHALL' / BOWHALL RED MAPLE	24" BOX	AS SHOWN	MOD
		CARPINUS BETULUS 'FATIGIATA' / FASTIGIATE EUROPEAN HORNBEAM	24" BOX	AS SHOWN	MOD
		GINKGO BILOBA 'PRINCETON SENTRY' / PRINCETON SENTRY GINKGO	24" BOX	AS SHOWN	MOD
		MAGNOLIA GRANDIFLORA 'ALTA' / ALTA MAGNOLIA	24" BOX	AS SHOWN	MOD
		QUERCUS ROBUR FASTIGIATA / FASTIGIATE ENGLISH OAK	24" BOX	AS SHOWN	MOD

SHRUBS	BOTANICAL NAME / COMMON NAME	CONT.	SPACING	WUCOLS
	SHRUBS AND GROUNDCOVERS:			
	SHRUBS MAY CONSIST OF:			
	ASCLEPIAS FASCICULARIS / CALIFORNIA NARROWLEAF MILKWEED	1 GAL	30" OC	LOW
	ERIOPHYLLUM CONFERTIFLORUM / GOLDEN YARROW	1 GAL	30" OC	LOW
	LIGUSTRUM JAPONICUM 'TEXANIUM/ GLOSSY LEAF PRIVET	1 GAL	30" OC	MOD
	MYRTUS COMMUNIS 'COMPACTA' / DWARF MYRTLE	1 GAL	30" OC	MOD
	RHAMNUS CALIFORNICA / CALIFORNIA COFFEEBERRY	1 GAL	30" OC	LOW
	ROSA CALIFORNICA / CALIFORNIA WILD ROSE	1 GAL	30" OC	LOW
	ZAUSCHNERIA CALIFORNICA / CALIFORNIA FUCHSIA	1 GAL	30" OC	LOW
	GROUNDCOVERS MAY CONSIST OF:			
	ARCTOSTAPHYLOS 'EMERALD CARPET'/ EMERALD CARPET MANZANITA	1 GAL	30" OC	LOW
	CARISSA MACROCARPA 'GREEN CARPET' / NATAL PLUM	1 GAL	30" OC	LOW
	MYOPORUM PARVIFOLIUM / MYOPORUM	1 GAL	30" OC	LOW
	SALVIA GRACIAS / GRACIAS SAGE	1 GAL	30" OC	LOW
	SENECIO SERPENS / BLUE CHALK STICKS	1 GAL	30" OC	LOW
	LID/STORMWATER TREATMENT PLANTS MAY CONSIST OF A MIX OF THE FOLLOWING:			
	BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA OATS	1 GAL	30" OC	MOD
	CAREX TUMULICOLA / BERKELEY SEDGE	1 GAL	30" OC	LOW
	CARPEX PANSA / CALIFORNIA FIELD SEDGE	1 GAL	30" OC	MOD
	CHONDROPETALUM TECTORUM / SMALL CAPE RUSH	1 GAL	30" OC	LOW
	JUNCUS PATENS / CALIFORNIA GRAY RUSH	1 GAL	36" OC	LOW
	MUHLENBERGIA RIGENS / DEER GRASS	1 GAL	30" OC	LOW
	ACCENT PLANTS MAY CONSIST OF THE FOLLOWING: MAY CONSIST OF A MIX OF THE FOLLOWING:			
	AGAVE ATTENUATA / FOXTAIL AGAVE	1 GAL	40" OC	LOW
	AGAVE ATTENUATA 'BOUTIN BLUE' / BLUE FOXTAIL AGAVE	1 GAL	40" OC	LOW
	CARPENTERIA CALIFORNICA / BUSH ANEMONE	1 GAL	40 "OC	MOD
	EUPHORBIA RIGIDA / GOPHER SPURGE	1 GAL	40" OC	LOW
	HESPERALOE PARVIFLORA / RED YUCCA	1 GAL	40" OC	LOW
	PHORMIUM 'DUSKY MAIDEN / DUSKY MAIDEN NZ FLAX	1 GAL	40" OC	LOW
	PHORMIUM 'JACK SPRATT' / JACK SPRATT NZ FLAX	1 GAL	40" OC	LOW
	SALVIA SPATHACEA / HUMMINGBIRD SAGE	1 GAL	40" OC	LOW
	VINES MAY CONSIST OF THE FOLLOWING:			
	PYRACANTHA COCCINEA / SCARLET FIRETHORN	1 GAL	96" OC	LOW
	PARTHENOCISSUS TRICUSPIDATA/BOSTON IVY	1 GAL	72" OC	LOW
	TRACHELOSPERMUM JASMINOIDES/STAR JASMINE	1 GAL	72" OC	LOW
	BOULDERS MAY CONSIST OF THE FOLLOWING:			
	1-2' DIA LANDSCAPE BOULDER			
	3-4' DIA LANDSCAPE BOULDER			
	5-6' DIA LANDSCAPE BOULDER			

SVP EASEMENT NOTES:

1. SVP EASEMENT ALONG EAST SIDE OF PROPERTY:
   SVP HAS EXISTING 60KV TRANSMISSION LINE ALONG THE EAST SIDE OF THE 2825 LAFAYETTE STREET PROPERTY. AS PART OF THE ENTITLEMENT APPROVAL PROCESS FOR THE NEW 2825 LAFAYETTE BUILDING, SVP IS REQUIRING EXISTING TREES TO BE REMOVED TO COMPLY WITH SVP STANDARD OH-1230.

   SVP STANDARD OH-1230 (TREE CLEARANCES FROM OVERHEAD ELECTRIC LINES, 09/08/16) LIMITS THE TREES AND LANDSCAPING THAT CAN BE LOCATED NEAR TRANSMISSION LINES.
   A. WIRE ZONE: TREES / LANDSCAPING ARE LIMITED TO 3 FEET HIGH WITHIN 10 FEET (HORIZONTAL DISTANCE) OF THE TRANSMISSION CONDUCTORS, WHICH RESULTS IN A ZONE EXTENDING APPROXIMATELY 15 FEET ON EITHER SIDE OF THE TRANSMISSION POLES.
   B. BORDER ZONE: TREES / LANDSCAPING ARE LIMITED TO 10 FEET HIGH EXTENDING 40 FEET (HORIZONTAL DISTANCE) BEYOND THE WIRE ZONE ON BOTH SIDES OF THE TRANSMISSION POLES.

   NEW TREES AND LANDSCAPING WILL BE PLANTED TO OFFSET THE TREES THAT WILL BE REMOVED AS PART OF THE SVP STANDARD OH-1230 REQUIREMENT.

2. SVP EASEMENT ALONG WEST SIDE OF PROPERTY:
   SVP WILL BE INSTALLING A 60KV TRANSMISSION LINE ALONG THE WEST SIDE OF THE 2825 LAFAYETTE STREET PROPERTY, ALONG LAFAYETTE STREET. THIS TRANSMISSION LINE WILL SERVE THE PROPOSED 2825 LAFAYETTE STREET BUILDING AND FUTURE DEVELOPMENTS IN THE AREA.

   AS PART OF THE ENTITLEMENT APPROVAL PROCESS FOR THE NEW 2825 LAFAYETTE BUILDING, SVP IS REQUIRING EXISTING TREES TO BE REMOVED TO COMPLY WITH SVP STANDARD OH-1230 AND IS REQUIRING NEW TREES BE PLANT IN COMPLIANCE WITH THIS REQUIRMENT.

   SVP STANDARD OH-1230 (TREE CLEARANCES FROM OVERHEAD ELECTRIC LINES, 09/08/16) LIMITS THE TREES AND LANDSCAPING THAT CAN BE LOCATED NEAR TRANSMISSION LINES.
   A. WIRE ZONE: TREES / LANDSCAPING ARE LIMITED TO 3 FEET HIGH WITHIN 10 FEET (HORIZONTAL DISTANCE) OF THE TRANSMISSION CONDUCTORS, WHICH RESULTS IN A ZONE EXTENDING APPROXIMATELY 15 FEET ON EITHER SIDE OF THE TRANSMISSION POLES.
   B. BORDER ZONE: TREES / LANDSCAPING ARE LIMITED TO 10 FEET HIGH EXTENDING 40 FEET (HORIZONTAL DISTANCE) BEYOND THE WIRE ZONE ON BOTH SIDES OF THE TRANSMISSION POLES.

   NEW TREES WILL BE PLANTED TO OFFSET THE TREES THAT WILL BE REMOVED AS PART OF THE SVP STANDARD OH-1230 REQUIREMENT. A GREATER NUMBER OF TREES WILL BE PLANTED ALONG THE NORTH SIDE OF THE PROPERTY (CENTERAL EXPRESSWAY), AWAY FROM THE SVP UTILITY LINES.

LANDSCAPE NOTES

1. THE SELECTION OF PLANT MATERIAL IS BASED ON CLIMATIC, AESTHETIC, AND MAINTENANCE CONSIDERATIONS.
2. GROUND COVER SHALL BE PLANTED AT A MAX SPACING OF 12" ON CENTER TO RESULT IN MAX COVERAGE WITHIN ONE YEAR OF INITIAL PLANTING.
3. ALL PLANTING AREAS SHALL BE PREPARED WITH APPROPRIATE SOIL AMENDMENTS, FERTILIZERS AND APPROPRIATE SUPPLEMENTS BASED UPON A SOILS REPORT FROM AN AGRICULTURAL SUITABILITY SOIL SAMPLE TAKEN FROM THE SITE.
4. GROUNDCOVERS OR ORGANIC SHREDDED BARK MULCH SHALL FILL IN BETWEEN SHRUBS TO SHIELD THE SOIL FROM THE SUN, EVAPOTRANSPIRATION, AND RUN-OFF.
5. ALL SHRUB BEDS SHALL BE MULCHED WITH ORGANIC SHREDDED BARK MULCH TO A 3" MINIMUM DEPTH TO HELP CONSERVE WATER, LOWER SOIL TEMPERATURE, AND REDUCE WEED GROWTH. THE SHRUBS SHALL BE ALLOWED TO GROW IN THEIR NATURAL FORMS.
6. ALL LANDSCAPE IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF SANTA CLARA AND COUNTY OF SANTA CLARA.
7. ALL VEGETATION SHALL BE MAINTAINED FREE OF PHYSICAL DAMAGE OR INJURY FROM LACK OF WATER, EXCESS CHEMICAL FERTILIZER OR OTHER TOXIC CHEMICAL, BLIGHT OR DISEASE. ANY VEGETATION WHICH SHOWS SIGNS OF SUCH DAMAGE OR INJURY AT ANY TIME SHALL BE REPLACED BY THE SAME, SIMILAR, OR SUBSTITUTE VEGETATION OF A SIZE, FORM, AND CHARACTER WHICH WILL BE COMPARABLE AT FULL GROWTH.
9. ANY COMPACTED SOILS IN PLANTING AREAS SHALL BE RETURNED TO A "FRIABLE" CONDITIONS PRIOR TO THE INSTALLATION OF PLANT MATERIALS. FRIABLE CONDITION IS DEFINED AS AN EASILY CRUMBLED OR LOOSELY COMPACTED CONDITION WHEREBY THE ROOT STRUCTURE OF NEWLY PLANTED MATERIAL WILL BE ALLOWED TO SPREAD UNIMPEDED.
10. APPROXIMATE PLANT QUANTITIES ARE PROVIDED IN THE LEGEND FOR CONVENIENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE CORRECT QUANTITY OF PLANT MATERIAL REGARDLESS OF THE QUANTITIES INDICATED IN THE LEGEND.
11. PROVIDE WEED CONTROL PER SPECIFICATIONS.
12. PROVIDE AGRICULTURAL SUITABILITY AND FERTILITY TESTS. LANDSCAPE CONTRACTOR SHALL INCORPORATE ALL SOILS LAB RECOMMENDATIONS. FOR BIDDING PURPOSES, ASSUME THE FOLLOWING:
    AMEND TOPSOIL TO 6" DEPTH WITH:
    A.) 4 CUBIC YARDS NITROLIZED SOIL AMENDMENT
    B.) 15 LBS. 6-20-20 COMMERCIAL FERTILIZER
    C.) 15 LBS AGRICULTURAL GYPSUM
    D.) 10 LBS GRO POWER PLUS SOIL CONDITIONER OR APPROVED EQUAL
    PREPARE ALL BACKFILL SOIL AS RECOMMENDED BUT NO LESS PER CUBIC YARD THAN AS FOLLOWS:
    A.) 6-20-20 FERTILIZER
    B.) 4/5 CUBIC YARD SCREENED TOPSOIL
    C.) 1/5 CUBIC YARD NITROLIZED SOIL AMENDMENT
    D.) 1 LBS ORGANIC GYPSUM
    E.) 2 LBS GRO POWER PLUS SOIL CONDITIONER OR APPROVED EQUAL
13. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT MATERIAL AND IRRIGATION SYSTEMS PROPOSED AND EXISTING-TO-REMAIN FOR A PERIOD OF 90-DAYS AFTER COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE EXISTING AND PROPOSED PLANT MATERIAL FOR A ONE-YEAR PERIOD STARTING AT FINAL ACCEPTANCE OF THE IMPROVEMENTS. DURING THIS PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DEAD OR IN-DECLINE PLANT MATERIAL OR DAMAGED IRRIGATION COMPONENTS IN-KIND.

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE CONCEPT DESIGN.

MATTHEW J. MORGAN, PLA 6256

STATE OF CALIFORNIA ESTIMATED WATER USE

TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUNT OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA:

ESTIMATED TOTAL WATER USE (ETWU) = GAL / YEAR PER HYDROZONE

ET ADJUSTMENT FACTOR (ETAF) =
0.55 ETAF FOR RESIDENTIAL LANDSCAPE
0.45 ETAF FOR NON-RESIDENTIAL LANDSCAPE
0.8 ETAF FOR EXISTING NON-REHABILITATED LANDSCAPE
SPECIAL LANDSCAPE SHALL NOT EXCEED 1.0 ETAF

PLANT FACTOR (PF) = WATER USE CLASSIFICATION OF LANDSCAPE SPECIES

HYDROZONE AREA (HA) = (SF OF LANDSCAPE) OR (32 SF / TREE)

CONVERSION FACTOR (CONVERTS ACRE-INCHES PER ACRE PER YEAR TO GALLONS PER SQUARE FOOT PER YEAR = 0.62

IRRIGATION EFFICIENCY (IE) = 0.75 (OVERHEAD SPRAY) 0.81 (DRIP)

SPECIAL LANDSCAPE AREA (SLA) = SF OF EDIBLE PLANTS, RECREATIONAL AREAS, AREAS IRRIGATED WITH RECYCLED WATER, OR WATER FEATURS USING RECYCLED WATER

EVAPOTRANSPIRATION RATE (ETo) = QUANTITY OF WATER EVAPORATED FROM ADJ. SOIL AND TRANSPIRED BY PLANTS OVER A SPECIFIED TIME

ETWU = [(ETo) * (PF) * (HA) * (0.62)] / (IE)

MAWA = (ETo) * (0.62) [ETAF) * (SUM OF SLA & HA)] + [(1-ETAF) * (SLA)]

HYDROZONE "A" (SUBSURFACE DRIP)

ETO	PF	HA	CONVERSION FACTOR	IE	SLA	ETWU (GAL/YEAR)
45.30	0.30	174,034	0.62	0.81		1,810,340.34

HYDROZONE "B" (BUBBLERS)

ETO	PF	HA	CONVERSION FACTOR	IE	SLA	ETWU (GAL/YEAR)
45.30	0.45	18,624	0.62	0.81		290,596.48
			ESTIMATED TOTAL WATER USE (GAL/YEAR)			**2,100,936.82**

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

ETO	SUM OF HA	CONVERSION FACTOR	ETAF	SUM OF SLA	MAWA(GAL/YEAR)
45.30	192,658.00	0.62	0.45	-	2,434,946.66
			MAXIMUM APPLIED WATER ALLOWANCE (GAL/YEAR)		**2,434,946.66**
			MAXIMUM APPLIED WATER ALLOWANCE PERCENT OF ESTIMATED TOTAL WATER USE		**86.28%**

NOTE:
SUM OF HYDROZONE AREA INCLUDES TOTAL OF NEW LANDSCAPE AREA TO BE IRRIGATED

LANDSCAPE DATA TABLE

CITY OF SANTA CLARA MUNICIPAL CODE	REQUIRED	PROVIDED
ZONE: LIGHT INDUSTRIAL		
TOTAL SITE AREA: 991, 425 SF (22.76 ACRES)		
TOTAL LANDSCAPE AREA: 174,034 SF (3.99 ACRES)		
TOTAL BUILDING PAD AREA: 369, 811 SF (8.49 ACRES)		
TOTAL VUA (VEHICULAR USE AREA): 213, 418 (4.90 ACRES)		
DEVELOPMENT CRITERIA – LANDSCAPE PROVISIONS		
TOTAL LANDSCAPE AREA COVERAGE	10% (OF TOTAL VUA AREA SPREAD EVENLY ACROSS VUA AND BUILDING FRONTAGE) 213,418 SF X 0.10 = 21,342 SF LANDSCAPE AREA	174,034 SF LANDSCAPE AREA
TREE MITIGATION	375 TREES REMOVED REPLACE AT 2:1 MIN. 24" BOX SIZE, OR 1:1 MIN. 36" BOX SIZE	REPLACED WITH: 195 TREES 24" BOX SIZE (REPLACES 97 TREES) 288 TREES 36" BOX SIZE(REPLACES 288 TREES) SURPLUS OF 10 TREES
DEVELOPMENT CRITERIA – VEHICULAR USE AREA (VUA)		
PARKING LOT SCREENING	30" HEIGHT MINIMUM LANDSCAPED BERM	LIMITED AREA FOR GRADING WITHIN THE BUILDING FRONTAGE. A DENSE LANDSCAPE SCREEN OF 24" HEIGHT MINIMUM WILL PROVIDE A BUFFER FROM THE STREET (CPTED REQUIRES MAX 24" HEIGHT SHRUBS)

DIGITAL REALTY
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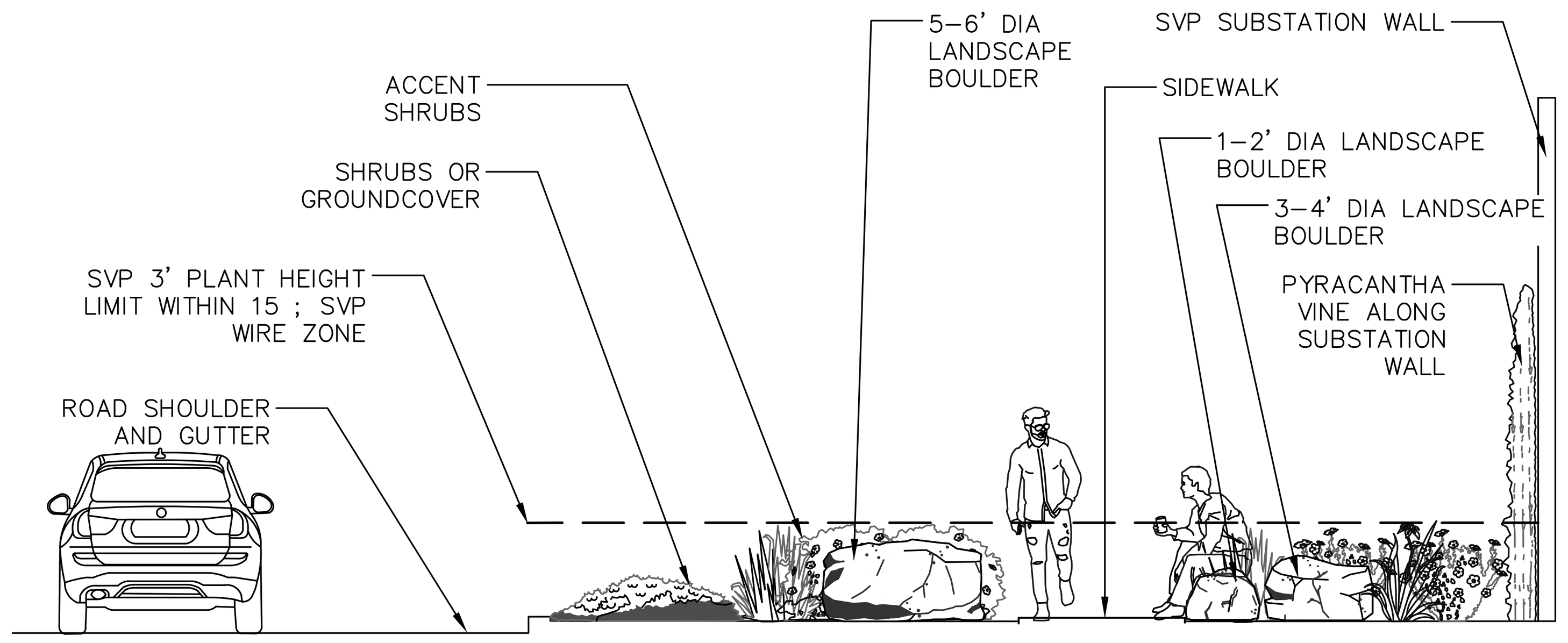
LANDSCAPE ARCHITECT OF RECORD SEAL
LICENSED LANDSCAPE ARCHITECT MATTHEW J. MORGAN Signature Renewal Date Date STATE OF CALIFORNIA

NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
1	PCC ISSUANCE	10.07.19

DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

LANDSCAPE NOTES AND SCHEDULE

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER: L2.1
SCALE: AS SHOWN	



(A) ENHANCED STREETSCAPE IMPROVEMENTS

SCALE: 1"=10'

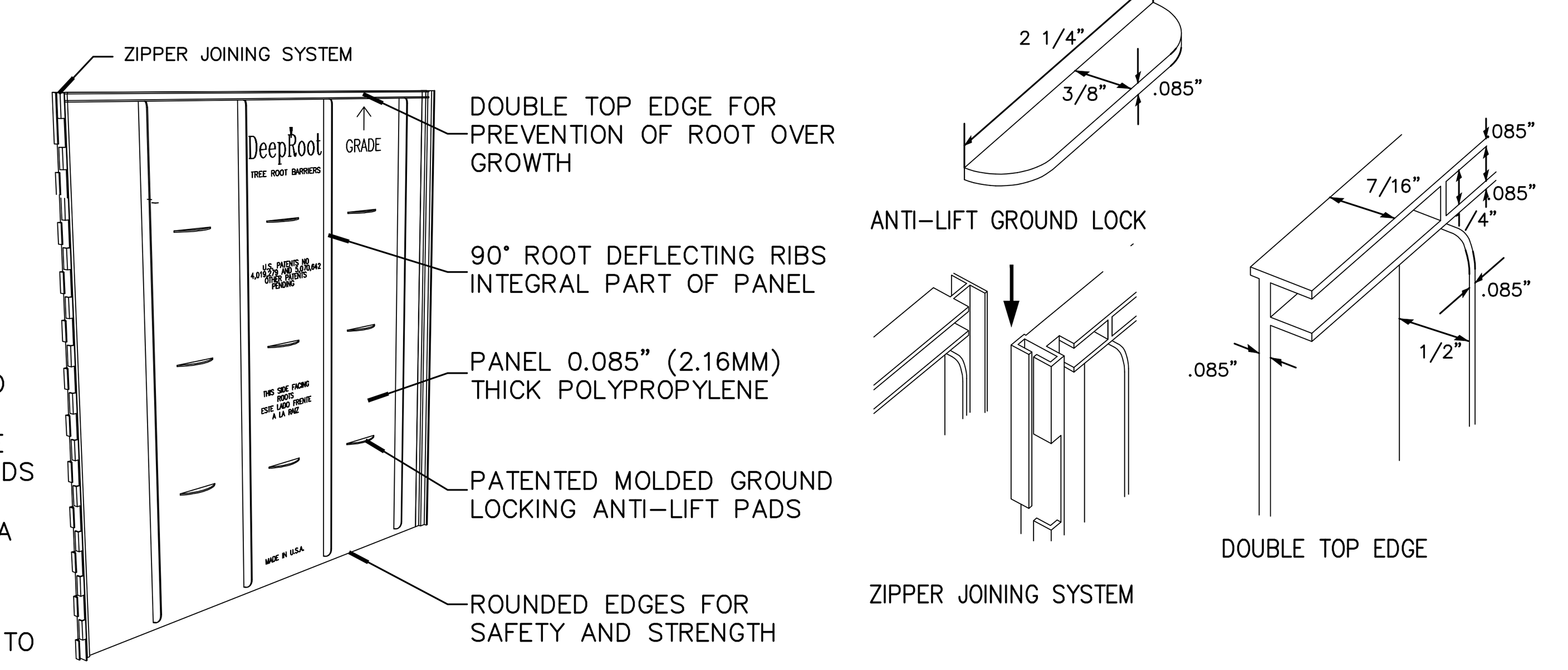
SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING HARDSCAPES AND LANDSCAPES. ASSEMBLED IN 2' LONG MODULES LINEAR APPLICATIONS DIRECTLY BESIDE A HARDSCAPE ADJACENT TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

A. MATERIALS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT # UB 48-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, L.P. 530 WASHINGTON STREET, SAN FRANCISCO, CA 94111 (800-458-7668), OR APPROVED EQUAL. THE BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS, OF 0.085" WALL THICKNESS IN MODULES 24" LONG BY 48" DEEP; MANUFACTURED WITH A MINIMUM 50% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE. EACH PANEL SHALL HAVE:

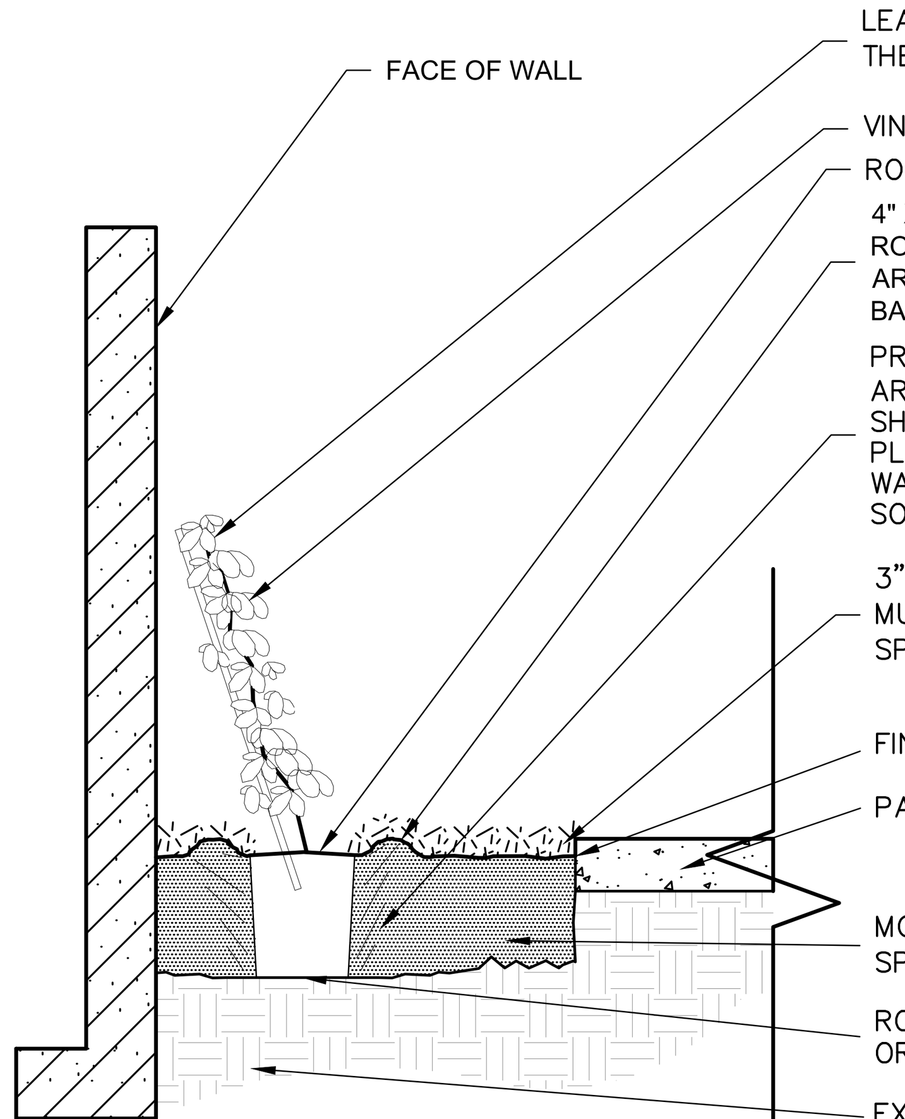
B. CONSTRUCTION AND INSTALLATION

1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE REQUIRED NUMBER OF PANELS FOR THE LENGTH SHOWN AND IN THE MANNER SHOWN ON THE DRAWINGS. ROOT BARRIER SHALL EXTEND 10' IN EACH DIRECTION FROM THE TRUNK OF THE TREE. VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2" ABOVE GRADE. EACH OF THE REQUIRED NUMBER OF PANELS SHALL BE CONNECTED IN A LINEAR FASHION AND PLACED ALONG THE ADJACENT HARDSCAPE.
2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS
3. THE TREE ROOT BARRIERS SHALL BE BACKFILLED ON THE OUTSIDE WITH 3/4" TO 1 1/2" GRAVEL OR CRUSHED ROCK AS SHOWN ON THE DRAWINGS. NO GRAVEL BACKFILL IS REQUIRED FOR A LINEAR PLANTING



(B) 24" DEEP ROOT TREE BARRIER

NTS

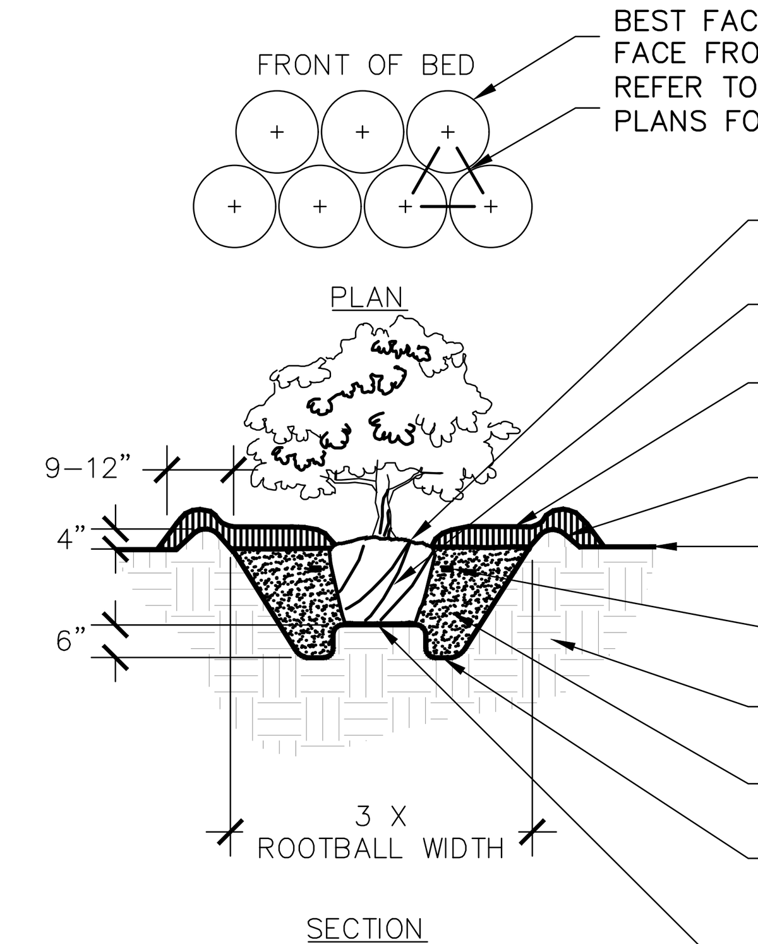


NOTES:
1- VINES/SHRUBS SHALL BE OF QUALITY AS PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

(C) VINE PLANTING AT BUILDING

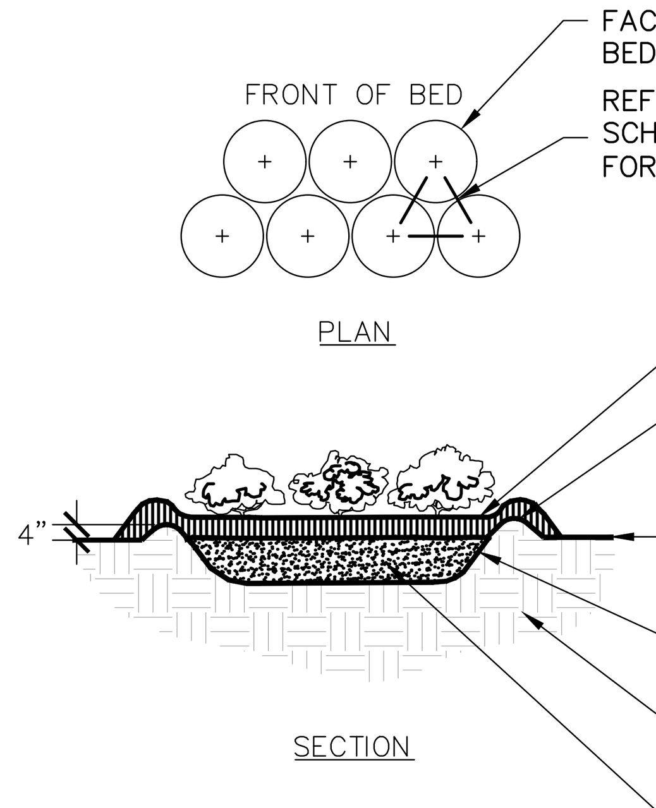
NTS



NOTES:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. WHEN SHRUBS MASSED WITH GROUNDCOVER BEDS, ENTIRE BED TO BE AMENDED.
3. WHEN SHRUBS ARE USED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS/HEIGHT

(D) TYPICAL SHRUB PLANTING

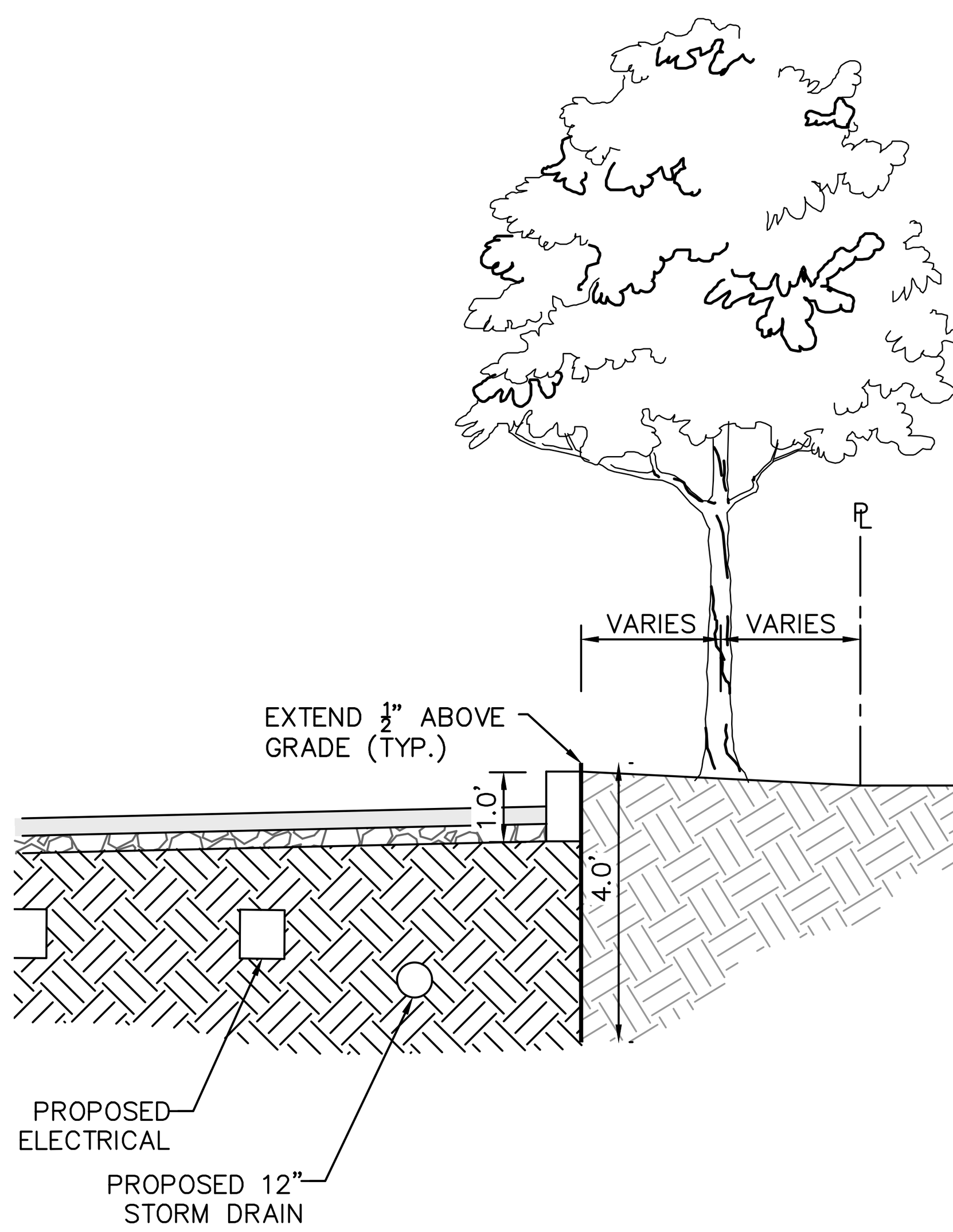
NTS



NOTES:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

(E) TYPICAL GROUNDCOVER PLANTING

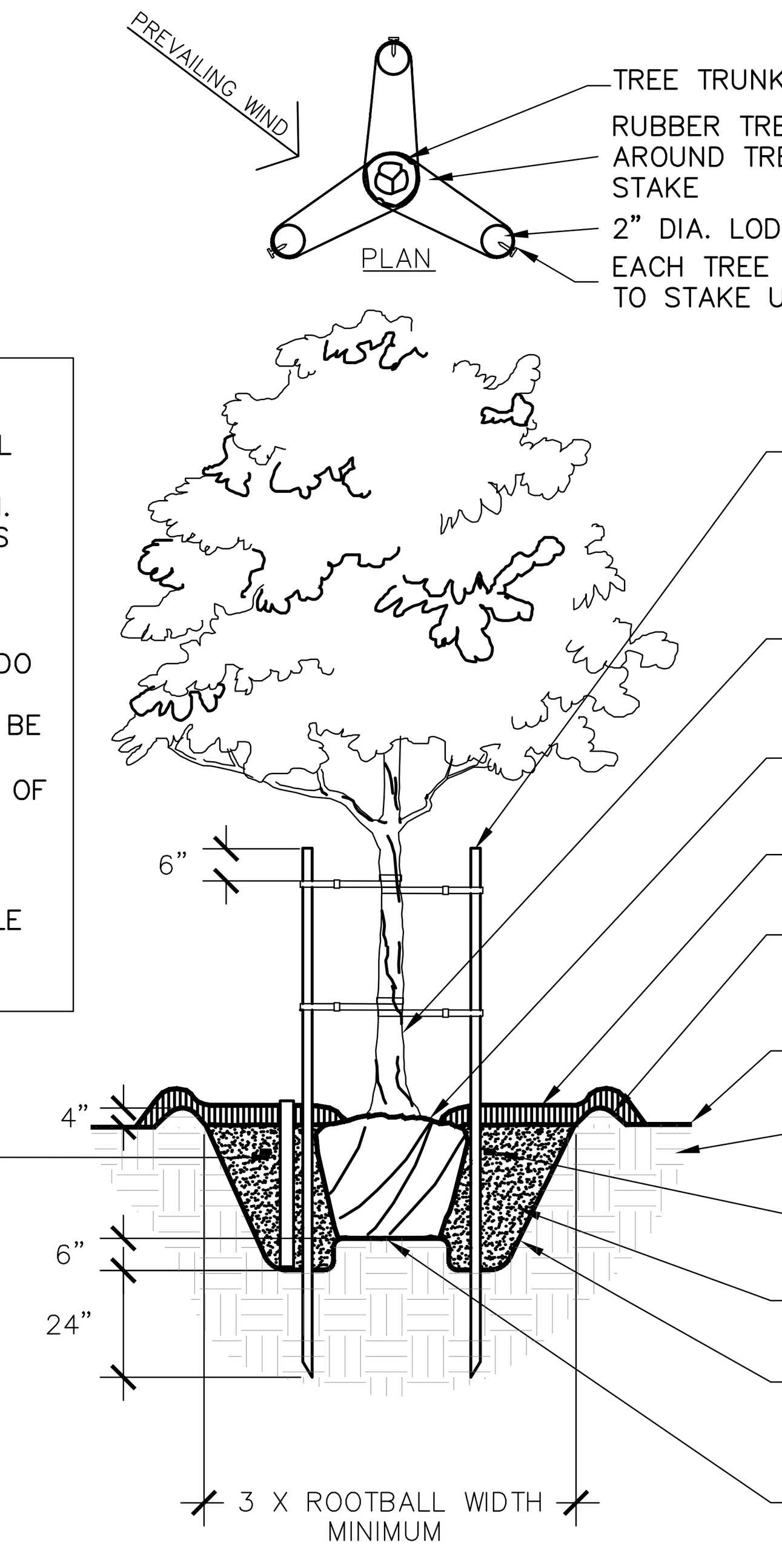
NTS



(F) TYPICAL SECTION (ROOT BARRIER AT UTILITY EASEMENTS)

NTS

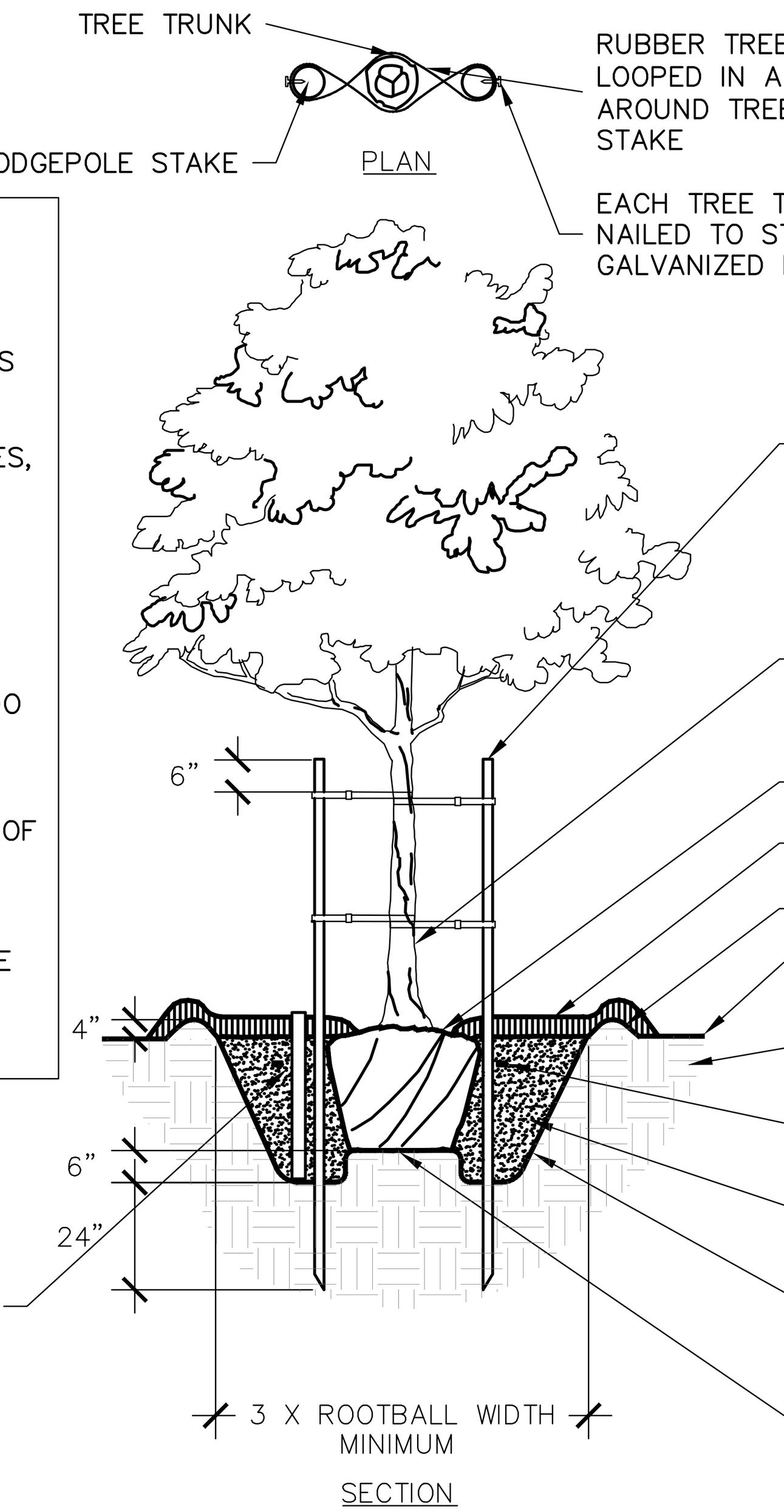
NOTES:
1. REFERENCE PLANTING SPECIFICATIONS/ SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. TRIPLE STAKE ALL TREES #36" BOX SIZE AND LARGER.
3. LOCATE ALL STAKES OUTSIDE OF ROOTBALL. DO NOT DRIVE STAKES INTO ROOTBALL. STAKE MUST BE DRIVEN MIN. 24" INTO NATIVE SOIL AT BOTTOM OF PLANTING PIT.
4. REMOVE ANYTHING (IE. BURLAP, WIRES, STRAPS, ETC.) THAT COULD GIRDLE TREE OR RESTRICT TREE GROWTH.



(G) TYPICAL TREE PLANTING (UP TO 36" BOX)

NTS

NOTES:
1. REFERENCE PLANTING NOTES FOR ADDITIONAL INFORMATION.
2. DOUBLE STAKE ALL TREES #15 (15 GAL.) SIZE AND LARGER.
3. FOR SINGLE STAKED TREES, PLACE STAKE ON WINDWARD SIDE OF TREE.
4. FOR DOUBLE STAKED TREES, PLACE STAKES PERPENDICULAR TO WINDWARD SIDE OF TREE.
5. LOCATE ALL STAKES OUTSIDE OF ROOTBALL. DO NOT DRIVE STAKES INTO ROOTBALL. STAKE SHALL BE DRIVEN MIN. 24" INTO NATIVE SOIL AT BOTTOM OF PLANTING PIT.
6. REMOVE ANYTHING (IE. BURLAP, WIRES, STRAPS, ETC.) THAT COULD GIRDLE TREE OR RESTRICT TREE GROWTH.



(H) TYPICAL TREE PLANTING (UP TO 24" BOX)

NTS

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LANDSCAPE ARCHITECT OF RECORD SEAL

NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
1	PCC ISSUANCE	10.07.19

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SANTA CLARA, CA, 95050

LANDSCAPE DETAILS

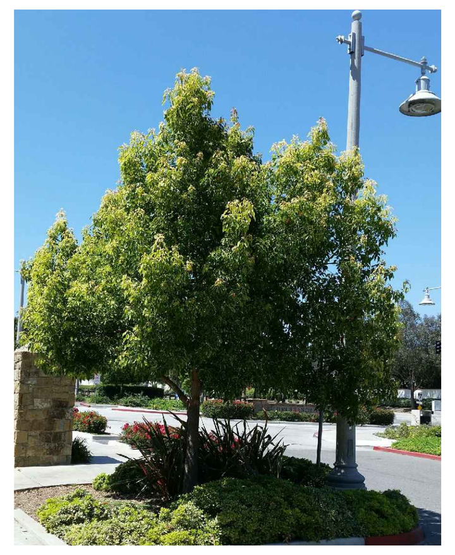
PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER
SCALE: AS SHOWN	L2.2

PRELIMINARY PLANT PALETTE

TREES


CEDRUS DEODARA
DEODAR CEDAR


CERCIS OCCIDENTALIS
WESTERN REDBUD


CINNAMOMUM CAMPHORA
CAMPHOR TREE


PISTACIA CHINENSIS
CHINESE PISTACHE


TILIA CORDATA
LITTLELEAF LINDEN


GLEDITSIA TRIACANTHOS
HONEY LOCUST


CUPRESSUS SEMPERVIRENS
ITALIAN CYPRESS


LAGERSTROEMIA X 'TUSKEGEE'
TUSKEGEE CRAPE MYRTLE


MAGNOLIA GRANDIFLORA 'ALTA'
ALTA SOUTHERN MAGNOLIA


ACER RUBRUM 'BOWHALL'
BOWHALL RED MAPLE

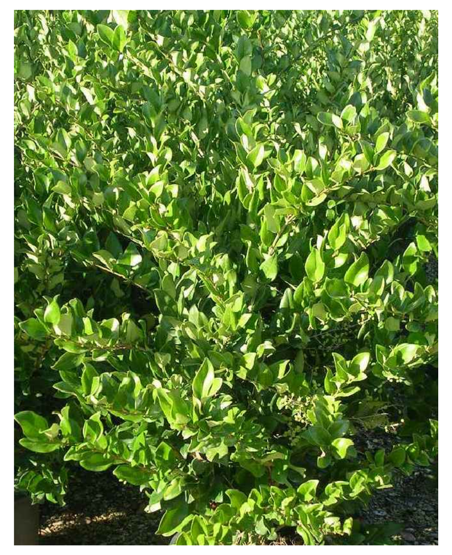

CARPINUS BETULUS 'FATIGIATA'
FASTIGIATE EUROPEAN HORNBEAM


LAURUS NOBILIS 'SARATOGA'
BAY LAUREL

SHRUBS / VINE

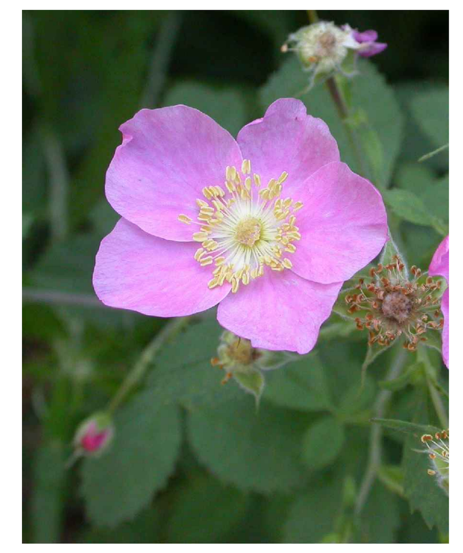

ERIOPHYLLUM CONFERTIFLORUM
YELLOW YARROW

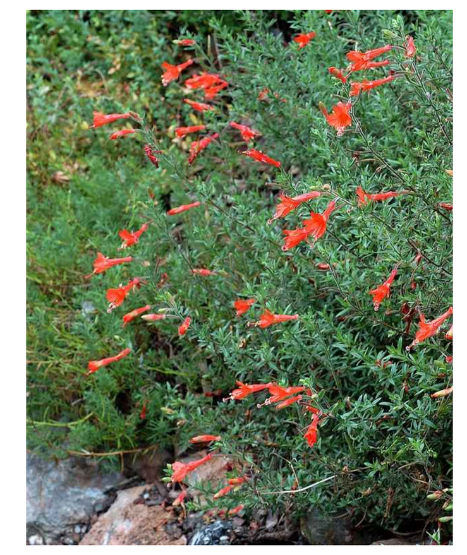

ASCLEPIAS FASCICULARIS
NARROWLEAF MILKWEED


LIGUSTRUM JAPONICUM 'TEXANUM'
GLOSSY LEAF PRIVET

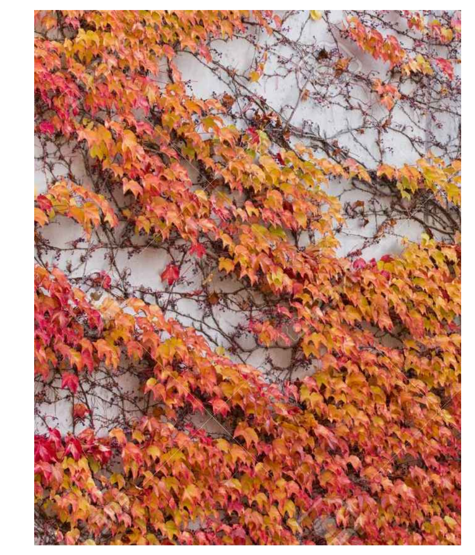

MYRTUS COMMUNIS 'COMPACTA'
DWARF MYRTLE


RHAMNUS CALIFORNICA
CALIFORNIA COFFEEBERRY


ROSA CALIFORNICA
CALIFORNIA WILD ROSE

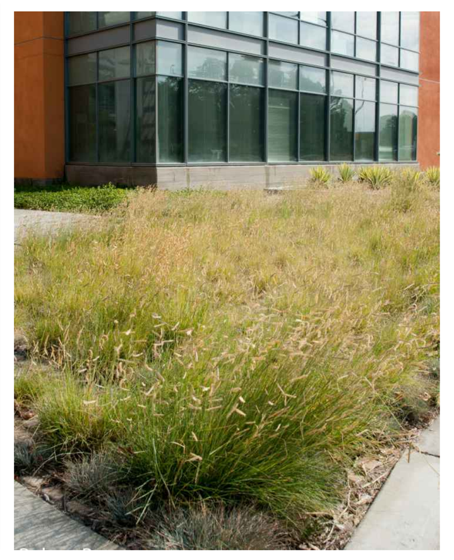

ZAUSCHNERIA CALIFORNICA
CALIFORNIA FUCHSIA


PYRACANTHA COCCINEA
SCARLET FIRETHORN

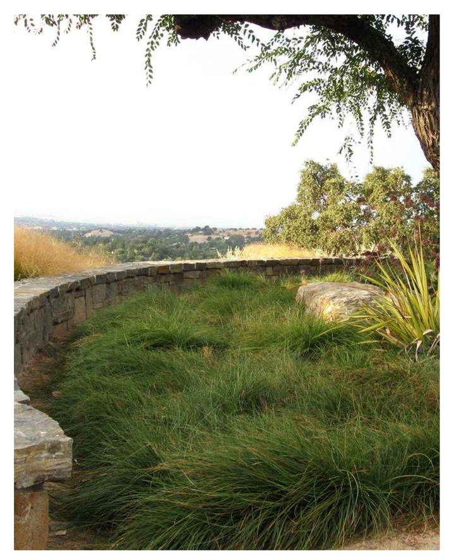

PARTHENOCISSUS TRICUSPIDATA
BOSTON IVY


TRACHELOSPERMUM JASMINOIDES
STAR JASMINE

LID


BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA OATS


CAREX PANSA
CALIFORNIA FIELD SEDGE

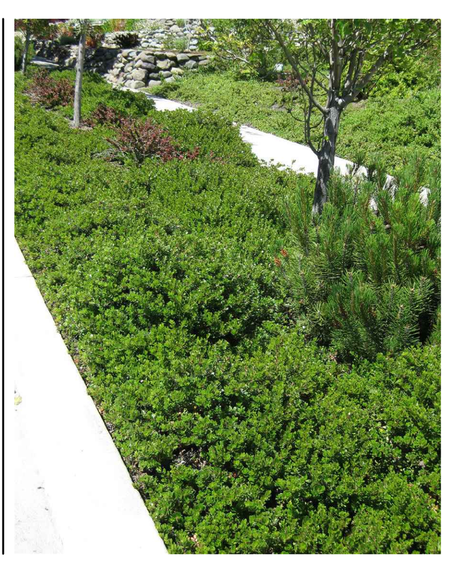

CAREX PANSA
CALIFORNIA FIELD SEDGE


CHONDROPETALUM TECTORUM
SMALL CAPE RUSH


JUNCUS PATENS
CALIFORNIA GRAY RUSH


MUHLENBERGIA RIGENS
DEER GRASS

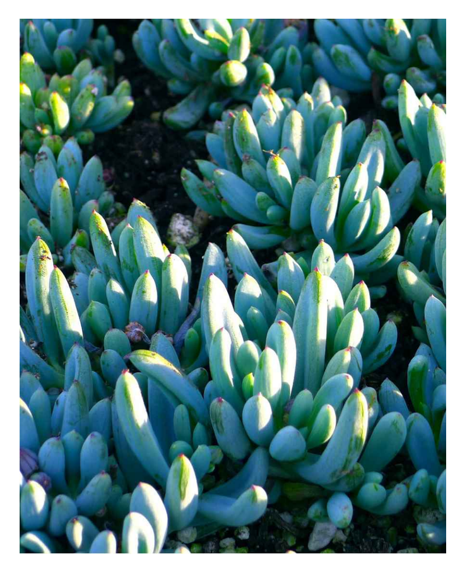
GROUNDCOVER


ARCTOSTAPHYLOS 'EMERALD CARPET' / MANZANITA

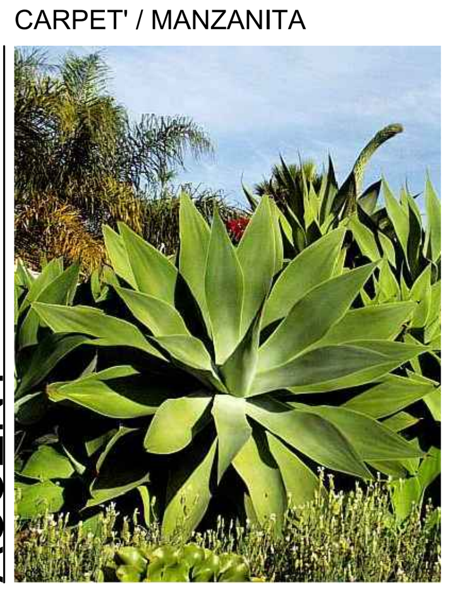

CARISSA MACROCARPA 'GREEN CARPET' / NATAL PLUM


MYOPORUM PARVIFOLIUM
MYOPORUM


SALVIA 'GRACIAS'
GRACIAS SAGE


SENECIO SERPENS
BLUE CHALK STICKS

ACCENT


AGAVE ATTENUATA
FOXTAIL AGAVE


CARPENTERIA CALIFORNICA
BUSH ANEMONE


EUPHORBIA RIGIDA
GOPHER SPURGE


HESPERALOE PARVIFLORA
RED YUCCA


PHORMIUM 'JACK SPRATT'
JACK SPRAT NZ FLAX

DIGITAL REALTY
Data Center Solutions

2825 LAFAYETTE STREET
SANTA CLARA, CA
95050-2627

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PHONE: 925-398-4840 FAX: 714-938-9488

LANDSCAPE ARCHITECT OF RECORD SEAL

NO.	RECORD	DATE
2	PCC ISSUANCE	06.19.20
1	PCC ISSUANCE	10.07.19

DLR DATA CENTER
2825 LAFAYETTE STREET
SANTA CLARA, CA, 95050

PLANT PALETTE
IMAGERY

PRINCIPAL IN CHARGE: JP	PROJECT NUMBER: 197250001
PROJECT MANAGER: MJ	DATE: 09/02/20
PROJECT ENGINEER: KN	SHEET NUMBER: L2.3
SCALE: AS SHOWN	

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7/28/2020

Chad Mendell
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Re: Tree Impacts from Proposed Development Project at 2825 Lafayette Street in Santa Clara

Dear Chad,

At your request, I have visited the property referenced above to evaluate the trees present with respect to the proposed construction project. The report below contains my analysis.

Summary

There are 476 trees on the project site, of which 377 are recommended for removal. Three hundred seventy-three of these conflict directly with project features, two are dead, and two are stumps of trees which were removed in the past, not in connection with this project.

Other trees may need to be removed for utility installation; however, no utilities are shown on the plans provided to me.

Assignment:

We have been asked to write a report detailing impacts to trees from construction of the proposed building, substation, and parking lot redesign at this address.

Introduction:

Many factors influence how a tree will respond to impacts from construction activities, including the extent of the activity; tree species; and tree vigor. Construction plans should accommodate trees insofar as practical, with the intent of preserving as many trees as reasonably possible.

Limits of the Assignment:

All observations were made from the ground. No root collar excavations or aerial inspections were performed.

No utilities, grading, or feature specifications are shown on the plans provided to me. I expect additional tree impacts will result from some or all of these factors.

No project features had been staked at the time of my site visit.

Purpose & Use of the Report:

This report is intended to inform tree management decisions for this project.

Observations:

Trees

Four hundred seventy-six trees are present. The five most common species are: London plane (*Platanus* x *acerifolia*), with 121 (25%); Italian cypress (*Cupressus sempervirens*), with 44 (9%); Raywood ash (*Fraxinus angustifolia* 'Raywood'), with 44 (9%); crape myrtle (*Lagerstroemia indica*), with 41 (9); and ornamental cherries (*Prunus* spp.), with 32 (7%).

Four trees are dead. Two of these were removed prior to my site visit, though their stumps remain.

Many trees are in small planters surrounded by hardscape.

Orange tape was present around several tree trunks at the time of my site visit, as noted in the Tree Table. I do not know the significance of this tape; it is possible that the trees are slated for removal or pruning by others.

Project Features

A new building will be constructed in the north part of the property, with a generator yard to the south. A new substation will be constructed in the southwest part of the property. New transmission lines will be installed along the east and west property lines. Most parking lot and driving areas will be redesigned.

The existing building in the south part of the property will remain.

Tree Impacts

Four hundred three trees conflict directly with proposed project features (not including dead trees). Conflicting features are listed in the following table:

Conflicting Feature	Live Trees to be Removed	%
Building	139.0	37%
Civil improvement	1.0	0%
Concrete path	5.0	1%
Demolition	0.0	0%
Driveway	98.0	26%
Generator yard	42.0	11%
None	0.0	0%
Transmission lines	51.0	14%
Property line fence	0.0	0%
Retention area	10.0	3%
Substation	27.0	7%

Of the 99 trees to remain, all are in good condition.

Many of the trees to remain will likely be impacted by project activities as detailed in the following tables:

Impacting Feature	Trees to be Retained	%
Building	0.0	0%
Civil improvement	0.0	0%
Concrete path	3.0	3%
Demolition	0.0	0%
Driveway	1.0	1%
Generator yard	0.0	0%
None	92.0	93%
Transmission lines	0.0	0%
Property line fence	1.0	1%
Retention area	2.0	2%
Substation	0.0	0%

Likely Impact level	Trees to be Retained	%
Minor	99	100 %
Minor-moderate	0	0%
Moderate	0	0%
Moderate-major	0	0%
Major	0	0%

Testing & Analysis:

Tree DBHs[1] were taken using a diameter tape measure if trunks were accessible. The DBHs of trees with non-accessible trunks were estimated visually. All trees over four inches in DBH were inventoried, with some smaller trees included if prominently located.

Vigor ratings are based on tree appearance and experiential knowledge of each species.

Tree location data was collected using a GPS smartphone application and processed in GIS software to create the maps included in this report. Due to slight differences between GPS data and CAD drawings, tree locations shown on the map below are approximate.

I visited the site on 5/31/2019, 6/1/2019, and 6/3/2019. All observations and photographs in this report were taken at those site visits.

This report is based on sheet A1.1 of the plan set titled "Master Plan: Proposed New Site Plan," provided to me electronically by the client. No utilities, grading, or feature specifications were provided.

[1] Diameter at breast height, a standard arboricultural metric

Discussion:

Critical Root Zone (CRZ)

Tree roots grow where conditions are favorable, and their spatial arrangement is therefore unpredictable. Favorable conditions vary among species, but generally include the presence of moisture, and soft soil texture with low compaction.

Contrary to popular belief, roots of all tree species grow primarily in the top two feet of soil, with a small number of roots sometimes occurring at greater depths. Some species have taproots when young, but these almost universally disappear with age. At maturity, a tree's root system may extend out from the trunk farther than the tree is tall.

The optimal size of the area around a tree which should be protected from disturbance depends on the tree's size, species, and vigor, as shown in the following table (adapted from *Trees & Construction*, Matheny and Clark, 1998)[2]:

Species tolerance	Tree vigor	Distance from trunk (feet per inch trunk diameter)
Good	High	0.5
	Moderate	0.75
	Low	1
Moderate	High	0.75
	Moderate	1
	Low	1.25
Poor	High	1
	Moderate	1.25
	Low	1.5

Species-Specific Issues

Some tree species on this property exhibit disease symptoms that, while unsightly, indicate common issues which can be managed with proper ongoing care. These trees were given higher health ratings than may appear reasonable without knowledge of these issues.

Raywood ash - these trees are susceptible to a syndrome called ash dieback. Though the exact causes remain unknown, disease susceptibility and drought stress appear to be major factors. This syndrome cannot be cured, but can only be managed through irrigation and regular removal of deadwood.

[2] Matheny and Clark use tree age instead of vigor; however, vigor is a stronger predictor of a tree's response to wounding.

Callery pear - all pear trees, but especially Callery pear (*Pyrus calleryana*), are susceptible to a bacterial disease called fireblight (*Erwinia amylovora*). Fireblight infection causes progressive dieback, starting with buds and spreading to entire limbs.

Evergreen pear - a disease called leaf spot (*Entomosporium mespili*) causes copious black spots on the leaves of evergreen pear trees (*Pyrus kawakamii*). This disease is primarily aesthetic, though some infected trees may drop of one or more crops of leaves per year.

Conclusions:

Three hundred seventy-three trees must be removed in order for the project to move forward as currently proposed. Two others must be removed irrespective of project features, as they are dead. Another two were removed prior to my site visit, and only the stumps remain.

The remaining 99 trees can reasonably be protected, with a high likelihood of survival during and after construction.

Recommendations:

1. Remove trees #1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476, upon approval from the City of Santa Clara.
2. Remove deadwood from remaining Callery pears and Raywood ashes. This will benefit both tree health and worker safety.
3. All tree work must be performed by trained tree care personnel under the direction of an International Society of Arboriculture Certified Arborist.
4. Alert the Project Arborist when new drawings are available showing grading, utilities, retention area details, or material changes to project features.
5. Install tree protection fencing prior to any demolition equipment coming onsite.
    a. Install fencing at or outside the tree protection areas of all trees to be retained, shown on the map below.
    b. Where existing pavement is within tree protection zones, install tree protection fencing at the edge of pavement. After demolition, move tree protection fencing to the edge of the tree protection area.
    c. Where proposed features shown on the map included below lie within tree protection areas, install tree protection fencing at the edge of the features.
    d. For areas where no construction will occur, tree protection fencing may be installed at the perimeter of the area instead of around each tree individually.
    e. Spread wood chips at least four inches thick within tree protection fencing.
6. For existing hardscape to be demolished within tree protection zones:
    a. Demolish the area nearest the tree first, and work outwards.
    b. Do not operate machinery on unpaved areas within tree protection zones.
    c. Upon completion of demolition, move tree protection fencing to be at or outside the tree protection area.
7. Minimize grading near trees. Do not perform any grading inside tree protection fencing.
8. If live roots over one inch in diameter are encountered at any time, in any location, they must be pruned with a sharp saw or bypass pruners, as close to the edge of the excavation as possible. If roots over three inches in diameter are encountered, do not prune, but instead contact the Project Arborist to determine the best course of action.
9. Irrigate all trees to be retained on a monthly basis with potable water, in the absence of heavy rain.
    a. Irrigate using a soaker hose placed as close to tree driplines as practical. Irrigate for 2-4 hours at a very low flow. If this causes runoff, reduce the flow rate. If this is impractical for any tree for any reason, contact the Project Arborist.

ASSUMPTIONS AND LIMITING CONDITIONS

1. Any legal description provided to the consultant/appraiser is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as though free and clear, under responsible ownership and competent management.
2. It is assumed that any property is not in violation of any applicable codes, ordinances, statutes, or other government regulations.
3. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however the consultant/appraiser can neither guarantee nor be responsible for the accuracy of information provided by others.
4. The consultant/appraiser shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
5. Loss, alteration, or reproduction of any part of this report invalidates the entire report.
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8. This report and the values expressed herein represent the opinion of the consult/appraiser, and the consult/appraiser's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
9. Sketches, diagrams, graphs, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys.
10. Unless expressed otherwise - 1) information in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and 2) the inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in future.

Respectfully submitted,

Katherine Naegele
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Anderson's Tree Care Specialists, Inc.
A TCIA Accredited Company
Master of Forestry, UC Berkeley
ISA Certified Arborist #WE-9658A
ISA Tree Risk Assessment Qualified
American Society of Consulting Arborists, Member
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Tree Map (Existing)


CENTRAL EXPRESSWAY
LAFAYETTE STREET
EXISTING BUILDING
EXISTING PUMP STATION
EXISTING TRAIN TRACKS
EXISTING LOADING DOCK
3-Stories: 18MW
0000 FF
MAIN ENTRANCE
PBB
LEGEND:
VICINITY MAP
PROPOSED NEW SITE PLAN
NORTH

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
1	Evergreen pear	Pyrus kawakamii	17.0	2.0	1.0	21.3	Driveway	Incompatible	REMOVE	-
2	London plane	Platanus x acerifolia	8.9	3.0	1.0	8.9	Driveway	Incompatible	REMOVE	-
3	London plane	Platanus x acerifolia	8.5	3.0	1.0	8.5	Driveway	Incompatible	REMOVE	-
4	London plane	Platanus x acerifolia	11.9	3.0	1.0	11.9	Driveway	Major	REMOVE	-
5	London plane	Platanus x acerifolia	8.2	3.0	1.0	8.2	Driveway	Major	REMOVE	-
6	London plane	Platanus x acerifolia	8.6	3.0	1.0	8.6	Driveway	Major	REMOVE	-
7	London plane	Platanus x acerifolia	13.4	3.0	1.0	13.4	Transmission lines	Incompatible	REMOVE	-
8	London plane	Platanus x acerifolia	12.8	3.0	1.0	12.8	Transmission lines	Incompatible	REMOVE	-
9	London plane	Platanus x acerifolia	9.2	3.0	1.0	9.2	Transmission lines	Incompatible	REMOVE	-
10	London plane	Platanus x acerifolia	8.8	3.0	1.0	8.8	Transmission lines	Incompatible	REMOVE	-
11	London plane	Platanus x acerifolia	11.0	3.0	1.0	11.0	Transmission lines	Incompatible	REMOVE	-
12	London plane	Platanus x acerifolia	12.9	3.0	1.0	12.9	Transmission lines	Incompatible	REMOVE	-
13	London plane	Platanus x acerifolia	13.1	3.0	1.0	13.1	Transmission lines	Incompatible	REMOVE	-
14	London plane	Platanus x acerifolia	11.6	3.0	1.0	11.6	Transmission lines	Incompatible	REMOVE	-
15	London plane	Platanus x acerifolia	12.0	3.0	1.0	12.0	Transmission lines	Incompatible	REMOVE	-
16	London plane	Platanus x acerifolia	11.9	3.0	1.0	11.9	Transmission lines	Incompatible	REMOVE	-
17	London plane	Platanus x acerifolia	13.3	3.0	1.0	13.3	Transmission lines	Incompatible	REMOVE	-
18	Purple-leaf plum	Prunus cerasifera	5.9	3.0	1.0	5.9	Transmission lines	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
19	Purple-leaf plum	Prunus cerasifera	5.3	3.0	1.0	5.3	Transmission lines	Incompatible	REMOVE	-
20	Purple-leaf plum	Prunus cerasifera	6.3	3.0	1.0	6.3	Transmission lines	Incompatible	REMOVE	-
21	Purple-leaf plum	Prunus cerasifera	4.8	3.0	1.0	4.8	Transmission lines	Incompatible	REMOVE	-
22	Purple-leaf plum	Prunus cerasifera	6.7	3.0	1.0	6.7	Transmission lines	Incompatible	REMOVE	-
23	Purple-leaf plum	Prunus cerasifera	6.8	3.0	1.0	6.8	Transmission lines	Incompatible	REMOVE	-
24	London plane	Platanus x acerifolia	13.1	3.0	1.0	13.1	Transmission lines	Incompatible	REMOVE	-
25	London plane	Platanus x acerifolia	9.2	3.0	1.0	9.2	Transmission lines	Incompatible	REMOVE	-
26	London plane	Platanus x acerifolia	8.0	3.0	1.0	8.0	None	Minor	Retain	-
27	London plane	Platanus x acerifolia	6.9	3.0	1.0	6.9	None	Minor	Retain	-
28	London plane	Platanus x acerifolia	11.1	3.0	1.0	11.1	None	Minor	Retain	-
29	London plane	Platanus x acerifolia	11.0	3.0	1.0	11.0	None	Minor	Retain	-
30	London plane	Platanus x acerifolia	11.0	3.0	1.0	11.0	Civil improvement	Incompatible	REMOVE	-
31	London plane	Platanus x acerifolia	14.4	3.0	1.0	14.4	Retention area	Incompatible	REMOVE	-
32	London plane	Platanus x acerifolia	12.5	2.0	1.0	15.6	Retention area	Incompatible	REMOVE	-
33	London plane	Platanus x acerifolia	15.4	3.0	1.0	15.4	None	Minor	Retain	-
34	London plane	Platanus x acerifolia	13.0	3.0	1.0	13.0	None	Minor	Retain	-
35	London plane	Platanus x acerifolia	15.7	3.0	1.0	15.7	None	Minor	Retain	-
36	London plane	Platanus x acerifolia	15.0	3.0	1.0	15.0	None	Minor	Retain	-
37	London plane	Platanus x acerifolia	14.8	3.0	1.0	14.8	None	Minor	Retain	-
38	London plane	Platanus x acerifolia	14.1	3.0	1.0	14.1	None	Minor	Retain	-
39	London plane	Platanus x acerifolia	14.9	3.0	1.0	14.9	None	Minor	Retain	-
40	London plane	Platanus x acerifolia	11.1	3.0	1.0	11.1	None	Minor	Retain	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
41	London plane	Platanus x acerifolia	12.8	3.0	1.0	12.8	None	Minor	Retain	-
42	London plane	Platanus x acerifolia	5.9	3.0	1.0	5.9	Driveway	Incompatible	REMOVE	-
43	London plane	Platanus x acerifolia	7.6	3.0	1.0	7.6	Substation	Incompatible	REMOVE	-
44	Raywood ash	Fraxinus angustifolia 'Raywood'	10.4	2.0	1.0	13.0	Substation	Incompatible	REMOVE	-
45	Raywood ash	Fraxinus angustifolia 'Raywood'	13.5	2.0	1.0	16.9	Substation	Incompatible	REMOVE	-
46	Raywood ash	Fraxinus angustifolia 'Raywood'	10.8	2.0	1.0	13.5	Substation	Incompatible	REMOVE	-
47	Raywood ash	Fraxinus angustifolia 'Raywood'	12.1	2.0	1.0	15.1	Substation	Incompatible	REMOVE	-
48	Raywood ash	Fraxinus angustifolia 'Raywood'	12.0	2.0	1.0	15.0	Substation	Incompatible	REMOVE	-
49	Raywood ash	Fraxinus angustifolia 'Raywood'	10.1	2.0	1.0	12.6	Substation	Incompatible	REMOVE	-
50	Raywood ash	Fraxinus angustifolia 'Raywood'	12.6	2.0	1.0	15.8	Substation	Incompatible	REMOVE	-
51	London plane	Platanus x acerifolia	8.7	2.0	1.0	10.9	Substation	Incompatible	REMOVE	-
52	London plane	Platanus x acerifolia	7.2	2.0	1.0	9.0	Substation	Incompatible	REMOVE	-
53	London plane	Platanus x acerifolia	9.3	3.0	1.0	9.3	Substation	Incompatible	REMOVE	-
54	London plane	Platanus x acerifolia	6.8	3.0	1.0	6.8	Substation	Incompatible	REMOVE	-
55	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	2.0	1.0	12.3	Substation	Incompatible	REMOVE	-
56	Raywood ash	Fraxinus angustifolia 'Raywood'	13.4	2.0	1.0	16.8	Substation	Incompatible	REMOVE	-
57	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	2.0	1.0	16.4	Substation	Incompatible	REMOVE	-
58	Raywood ash	Fraxinus angustifolia 'Raywood'	7.5	2.0	1.0	9.4	Substation	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
59	Raywood ash	Fraxinus angustifolia 'Raywood'	2.1	3.0	1.0	2.1	Substation	Incompatible	REMOVE	Newly planted.
60	London plane	Platanus x acerifolia	5.8	3.0	1.0	5.8	Substation	Incompatible	REMOVE	-
61	London plane	Platanus x acerifolia	5.1	3.0	1.0	5.1	Substation	Incompatible	REMOVE	-
62	London plane	Platanus x acerifolia	5.6	3.0	1.0	5.6	Substation	Incompatible	REMOVE	-
63	London plane	Platanus x acerifolia	7.5	3.0	1.0	7.5	Substation	Incompatible	REMOVE	-
64	Raywood ash	Fraxinus angustifolia 'Raywood'	3.8	2.0	1.0	4.8	Substation	Incompatible	REMOVE	-
65	Raywood ash	Fraxinus angustifolia 'Raywood'	3.0	2.0	1.0	3.8	Substation	Incompatible	REMOVE	-
66	Raywood ash	Fraxinus angustifolia 'Raywood'	5.6	2.0	1.0	7.0	Substation	Incompatible	REMOVE	-
67	Raywood ash	Fraxinus angustifolia 'Raywood'	7.8	2.0	1.0	9.8	Substation	Incompatible	REMOVE	-
68	Raywood ash	Fraxinus angustifolia 'Raywood'	8.7	2.0	1.0	10.9	Substation	Incompatible	REMOVE	-
69	Raywood ash	Fraxinus angustifolia 'Raywood'	8.1	2.0	1.0	10.1	Substation	Incompatible	REMOVE	-
70	Raywood ash	Fraxinus angustifolia 'Raywood'	9.2	2.0	1.0	11.5	Driveway	Incompatible	REMOVE	-
71	London plane	Platanus x acerifolia	6.4	2.0	1.0	8.0	Driveway	Incompatible	REMOVE	-
72	London plane	Platanus x acerifolia	8.0	3.0	1.0	8.0	Driveway	Incompatible	REMOVE	-
73	London plane	Platanus x acerifolia	9.5	3.0	1.0	9.5	Driveway	Incompatible	REMOVE	-
74	London plane	Platanus x acerifolia	8.7	3.0	1.0	8.7	Driveway	Incompatible	REMOVE	Orange tape around trunk.
75	London plane	Platanus x acerifolia	6.9	3.0	1.0	6.9	Driveway	Incompatible	REMOVE	-
76	London plane	Platanus x acerifolia	9.9	3.0	1.0	9.9	Driveway	Incompatible	REMOVE	-
77	London plane	Platanus x acerifolia	9.0	3.0	1.0	9.0	Driveway	Incompatible	REMOVE	-
78	London plane	Platanus x acerifolia	7.7	3.0	1.0	7.7	Driveway	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
79	London plane	Platanus x acerifolia	10.1	3.0	1.0	10.1	Driveway	Incompatible	REMOVE	Orange tape around trunk.
80	London plane	Platanus x acerifolia	10.9	3.0	1.0	10.9	Concrete path	Incompatible	REMOVE	-
81	London plane	Platanus x acerifolia	8.1	3.0	1.0	8.1	Driveway	Incompatible	REMOVE	-
82	London plane	Platanus x acerifolia	8.5	3.0	1.0	8.5	Driveway	Incompatible	REMOVE	-
83	London plane	Platanus x acerifolia	8.0	3.0	1.0	8.0	Driveway	Incompatible	REMOVE	-
84	London plane	Platanus x acerifolia	10.0	3.0	1.0	10.0	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
85	London plane	Platanus x acerifolia	9.6	3.0	1.0	9.6	Driveway	Minor	REMOVE	Fence placement may require adjustment to accommodate
86	London plane	Platanus x acerifolia	9.2	3.0	1.0	9.2	Driveway	Minor	REMOVE	Fence placement may require adjustment to accommodate
87	London plane	Platanus x acerifolia	10.9	3.0	1.0	10.9	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
88	London plane	Platanus x acerifolia	14.9	3.0	1.0	14.9	Driveway	Minor	REMOVE	Fence placement may require adjustment to accommodate

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
89	London plane	Platanus x acerifolia	8.2	3.0	1.0	8.2	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
90	London plane	Platanus x acerifolia	12.4	3.0	1.0	12.4	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
91	London plane	Platanus x acerifolia	14.6	3.0	1.0	14.6	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
92	London plane	Platanus x acerifolia	15.0	3.0	1.0	15.0	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
93	London plane	Platanus x acerifolia	15.6	3.0	1.0	15.6	Transmission lines	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
94	London plane	Platanus x acerifolia	16.2	3.0	1.0	16.2	Driveway	Incompatible	REMOVE	Fence placement may require adjustment to accommodate

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
95	London plane	Platanus x acerifolia	19.0	3.0	1.0	19.0	Driveway	Incompatible	REMOVE	Fence placement may require adjustment to accommodate
96	London plane	Platanus x acerifolia	12.0	3.0	1.0	12.0	Driveway	Incompatible	REMOVE	DBH estimated, as trunk is surrounded by dense shrubs.
97	London plane	Platanus x acerifolia	16.0	3.0	1.0	16.0	Driveway	Incompatible	REMOVE	DBH estimated, to avoid disturbing unidentified animal living in shrub at base.
98	Weeping willow	Salix babylonica	35.5	3.0	2.0	26.6	Property line fence	Minor	Retain	Fence placement may require adjustment to accommodate. Extraordinarily healthy for the species.
99	Hackberry	Celtis sp.	9.4	3.0	2.0	7.1	Building	Incompatible	REMOVE	-
100	Crape myrtle	Lagerstroemia indica	6.8	3.0	2.0	5.1	Building	Incompatible	REMOVE	-
101	Crape myrtle	Lagerstroemia indica	6.8	3.0	2.0	5.1	Building	Incompatible	REMOVE	-
102	Callery pear	Pyrus calleryana	8.5	3.0	2.0	6.4	Building	Incompatible	REMOVE	-
103	African fern pine	Afrocarpus gracilior	9.7	3.0	3.0	4.9	Building	Incompatible	REMOVE	-
104	Callery pear	Pyrus calleryana	7.4	3.0	2.0	5.6	Building	Incompatible	REMOVE	-
105	Callery pear	Pyrus calleryana	7.3	3.0	2.0	5.5	Building	Incompatible	REMOVE	Orange tape around trunk.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
106	Crape myrtle	Lagerstroemia indica	3.6	2.0	2.0	3.6	Building	Incompatible	REMOVE	Orange tape around trunk.
107	Ornamental cherry	Prunus sp.	4.6	1.0	2.0	5.8	Building	Incompatible	REMOVE	-
108	Crape myrtle	Lagerstroemia indica	5.5	3.0	2.0	4.1	Generator yard	Incompatible	REMOVE	Orange tape around trunk.
109	African fern pine	Afrocarpus gracilior	8.4	3.0	3.0	4.2	Generator yard	Incompatible	REMOVE	-
110	Crape myrtle	Lagerstroemia indica	5.4	3.0	2.0	4.1	Generator yard	Incompatible	REMOVE	-
111	Callery pear	Pyrus calleryana	7.8	3.0	2.0	5.9	Generator yard	Incompatible	REMOVE	-
112	Crape myrtle	Lagerstroemia indica	6.2	3.0	2.0	4.7	Generator yard	Incompatible	REMOVE	Orange tape around trunk.
113	Callery pear	Pyrus calleryana	10.3	3.0	2.0	7.7	Generator yard	Incompatible	REMOVE	-
114	London plane	Platanus x acerifolia	15.5	2.0	1.0	19.4	Generator yard	Incompatible	REMOVE	-
115	London plane	Platanus x acerifolia	10.0	3.0	1.0	10.0	Generator yard	Incompatible	REMOVE	Orange tape around trunk.
116	London plane	Platanus x acerifolia	14.9	2.0	1.0	18.6	Building	Incompatible	REMOVE	-
117	London plane	Platanus x acerifolia	10.2	2.0	1.0	12.8	Building	Incompatible	REMOVE	-
118	London plane	Platanus x acerifolia	9.7	3.0	1.0	9.7	Building	Incompatible	REMOVE	-
119	London plane	Platanus x acerifolia	8.9	3.0	1.0	8.9	Building	Incompatible	REMOVE	-
120	Green ash	Fraxinus pennsylvanica	12.8	2.0	3.0	9.6	Building	Incompatible	REMOVE	-
121	Green ash	Fraxinus pennsylvanica	12.8	2.0	3.0	9.6	Building	Incompatible	REMOVE	-
122	Green ash	Fraxinus pennsylvanica	10.7	2.0	3.0	8.0	Building	Incompatible	REMOVE	-
123	Green ash	Fraxinus pennsylvanica	8.4	2.0	3.0	6.3	Building	Incompatible	REMOVE	-
124	Green ash	Fraxinus pennsylvanica	8.5	2.0	3.0	6.4	Building	Incompatible	REMOVE	-
125	London plane	Platanus x acerifolia	4.8	1.0	1.0	7.2	Building	Incompatible	REMOVE	Orange tape around trunk.
126	London plane	Platanus x acerifolia	14.7	3.0	1.0	14.7	Building	Incompatible	REMOVE	-
127	London plane	Platanus x acerifolia	13.1	3.0	1.0	13.1	Generator yard	Incompatible	REMOVE	-
128	London plane	Platanus x acerifolia	13.2	3.0	1.0	13.2	Generator yard	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
129	London plane	Platanus x acerifolia	7.9	3.0	1.0	7.9	Generator yard	Incompatible	REMOVE	-
130	London plane	Platanus x acerifolia	9.2	3.0	1.0	9.2	Building	Incompatible	REMOVE	-
131	London plane	Platanus x acerifolia	14.6	3.0	1.0	14.6	Generator yard	Incompatible	REMOVE	-
132	London plane	Platanus x acerifolia	11.9	3.0	1.0	11.9	Generator yard	Incompatible	REMOVE	-
133	London plane	Platanus x acerifolia	8.3	3.0	1.0	8.3	Building	Incompatible	REMOVE	-
134	London plane	Platanus x acerifolia	13.0	3.0	1.0	13.0	Building	Incompatible	REMOVE	-
135	London plane	Platanus x acerifolia	11.9	3.0	1.0	11.9	Building	Incompatible	REMOVE	-
136	Green ash	Fraxinus pennsylvanica	11.6	2.0	3.0	8.7	Building	Incompatible	REMOVE	-
137	Green ash	Fraxinus pennsylvanica	13.5	2.0	3.0	10.1	Building	Incompatible	REMOVE	-
138	Green ash	Fraxinus pennsylvanica	9.9	2.0	3.0	7.4	Building	Incompatible	REMOVE	-
139	Green ash	Fraxinus pennsylvanica	18.3	3.0	3.0	9.2	Building	Incompatible	REMOVE	-
140	Green ash	Fraxinus pennsylvanica	12.3	2.0	3.0	9.2	Driveway	Incompatible	REMOVE	-
141	Green ash	Fraxinus pennsylvanica	12.8	2.0	3.0	9.6	Driveway	Incompatible	REMOVE	-
142	London plane	Platanus x acerifolia	10.0	3.0	1.0	10.0	Driveway	Incompatible	REMOVE	-
143	London plane	Platanus x acerifolia	15.3	3.0	1.0	15.3	Building	Incompatible	REMOVE	-
144	London plane	Platanus x acerifolia	7.2	3.0	1.0	7.2	Building	Incompatible	REMOVE	-
145	London plane	Platanus x acerifolia	12.3	3.0	1.0	12.3	Building	Incompatible	REMOVE	-
146	London plane	Platanus x acerifolia	9.5	3.0	1.0	9.5	Driveway	Incompatible	REMOVE	-
147	London plane	Platanus x acerifolia	8.9	3.0	1.0	8.9	Driveway	Incompatible	REMOVE	-
148	London plane	Platanus x acerifolia	9.9	3.0	1.0	9.9	Driveway	Incompatible	REMOVE	-
149	London plane	Platanus x acerifolia	9.5	3.0	1.0	9.5	Driveway	Incompatible	REMOVE	-
150	London plane	Platanus x acerifolia	13.9	3.0	1.0	13.9	Building	Incompatible	REMOVE	-
151	London plane	Platanus x acerifolia	10.1	3.0	1.0	10.1	Driveway	Incompatible	REMOVE	-
152	London plane	Platanus x acerifolia	10.5	3.0	1.0	10.5	Driveway	Minor-moderate	REMOVE	-
153	London plane	Platanus x acerifolia	12.1	3.0	1.0	12.1	Driveway	Minor-moderate	REMOVE	-
154	London plane	Platanus x acerifolia	6.3	3.0	1.0	6.3	Driveway	Minor-moderate	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
155	London plane	Platanus x acerifolia	10.3	3.0	1.0	10.3	Driveway	Incompatible	REMOVE	-
156	Green ash	Fraxinus pennsylvanica	15.3	3.0	3.0	7.7	Driveway	Incompatible	REMOVE	-
157	Green ash	Fraxinus pennsylvanica	6.4	2.0	3.0	4.8	Driveway	Incompatible	REMOVE	-
158	London plane	Platanus x acerifolia	11.2	3.0	1.0	11.2	Building	Incompatible	REMOVE	-
159	London plane	Platanus x acerifolia	7.5	3.0	1.0	7.5	Building	Incompatible	REMOVE	-
160	London plane	Platanus x acerifolia	12.2	3.0	1.0	12.2	Building	Incompatible	REMOVE	-
161	London plane	Platanus x acerifolia	13.9	3.0	1.0	13.9	Building	Incompatible	REMOVE	-
162	London plane	Platanus x acerifolia	13.7	3.0	1.0	13.7	Building	Incompatible	REMOVE	-
163	London plane	Platanus x acerifolia	8.7	3.0	1.0	8.7	Driveway	Incompatible	REMOVE	-
164	London plane	Platanus x acerifolia	15.9	3.0	1.0	15.9	Building	Incompatible	REMOVE	-
165	London plane	Platanus x acerifolia	11.9	3.0	1.0	11.9	Building	Incompatible	REMOVE	-
166	London plane	Platanus x acerifolia	8.5	3.0	1.0	8.5	Building	Incompatible	REMOVE	-
167	London plane	Platanus x acerifolia	15.4	3.0	1.0	15.4	Building	Incompatible	REMOVE	-
168	London plane	Platanus x acerifolia	11.0	3.0	1.0	11.0	Building	Incompatible	REMOVE	-
169	Crape myrtle	Lagerstroemia indica	5.2	3.0	2.0	3.9	Building	Incompatible	REMOVE	-
170	Crape myrtle	Lagerstroemia indica	5.9	3.0	2.0	4.4	Building	Incompatible	REMOVE	-
171	African fern pine	Afrocarpus gracilior	10.0	3.0	3.0	5.0	Building	Incompatible	REMOVE	-
172	Bay laurel	Laurus nobilis	12.8	3.0	2.0	9.6	Building	Incompatible	REMOVE	-
173	Eastern redbud	Cercis canadensis	9.7	3.0	2.0	7.3	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
174	Eastern redbud	Cercis canadensis	12.3	3.0	2.0	9.2	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
175	Hackberry	Celtis sp.	7.0	3.0	2.0	5.3	Building	Incompatible	REMOVE	-
176	Hackberry	Celtis sp.	6.8	3.0	2.0	5.1	Building	Incompatible	REMOVE	-
177	Japanese maple	Acer palmatum	4.5	3.0	2.0	3.4	Building	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
178	Japanese maple	Acer palmatum	5.0	3.0	2.0	3.8	Building	Incompatible	REMOVE	-
179	Japanese maple	Acer palmatum	6.7	3.0	2.0	5.0	Building	Incompatible	REMOVE	-
180	Japanese maple	Acer palmatum	8.8	3.0	2.0	6.6	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
181	Philodendron	Philodendron sp.	9.0	3.0	2.0	6.8	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
182	Japanese maple	Acer palmatum	4.5	3.0	2.0	3.4	Building	Incompatible	REMOVE	-
183	Weeping cherry	Prunus subhirtella 'Pendula'	5.0	1.0	2.0	6.3	Building	Incompatible	REMOVE	Canopy is about half dead.
184	Weeping cherry	Prunus subhirtella 'Pendula'	6.0	0.0	2.0	0.0	N/A (dead)	N/A (dead)	REMOVE	Dead
185	Weeping cherry	Prunus subhirtella 'Pendula'	4.8	3.0	2.0	3.6	Building	Incompatible	REMOVE	-
186	Japanese maple	Acer palmatum	4.9	3.0	2.0	3.7	Building	Incompatible	REMOVE	-
187	Japanese maple	Acer palmatum	6.3	3.0	2.0	4.7	Building	Incompatible	REMOVE	-
188	Japanese maple	Acer palmatum	6.7	3.0	2.0	5.0	Building	Incompatible	REMOVE	-
189	Hackberry	Celtis sp.	5.4	3.0	2.0	4.1	Building	Incompatible	REMOVE	-
190	Hackberry	Celtis sp.	7.8	3.0	2.0	5.9	Building	Incompatible	REMOVE	-
191	Hackberry	Celtis sp.	4.2	3.0	2.0	3.2	Building	Incompatible	REMOVE	-
192	Eastern redbud	Cercis canadensis	11.5	3.0	2.0	8.6	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
193	Eastern redbud	Cercis canadensis	11.0	3.0	2.0	8.3	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
194	bay laurel	Laurus nobilis	7.3	3.0	2.0	5.5	Building	Incompatible	REMOVE	-
195	Crape myrtle	Lagerstroemia indica	6.6	3.0	2.0	5.0	Building	Incompatible	REMOVE	-
196	Crape myrtle	Lagerstroemia indica	6.6	3.0	2.0	5.0	Building	Incompatible	REMOVE	-
197	Hackberry	Celtis sp.	7.0	3.0	2.0	5.3	Building	Incompatible	REMOVE	-
198	African fern pine	Afrocarpus gracilior	9.9	3.0	3.0	5.0	Building	Incompatible	REMOVE	-
199	Hackberry	Celtis sp.	11.0	3.0	2.0	8.3	Building	Incompatible	REMOVE	-
200	Evergreen pear	Pyrus kawakamii	13.1	2.0	1.0	16.4	Building	Incompatible	REMOVE	-
201	Evergreen pear	Pyrus kawakamii	12.7	2.0	1.0	15.9	Building	Incompatible	REMOVE	-
202	Raywood ash	Fraxinus angustifolia 'Raywood'	10.0	2.0	1.0	12.5	Building	Incompatible	REMOVE	-
203	Chinese pistache	Pistacia chinensis	9.3	3.0	3.0	4.7	Building	Incompatible	REMOVE	-
204	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	2.0	1.0	10.6	Building	Incompatible	REMOVE	-
205	Raywood ash	Fraxinus angustifolia 'Raywood'	9.5	2.0	1.0	11.9	Building	Incompatible	REMOVE	-
206	Evergreen pear	Pyrus kawakamii	11.8	1.0	1.0	17.7	Building	Incompatible	REMOVE	-
207	Evergreen pear	Pyrus kawakamii	10.1	2.0	1.0	12.6	Building	Incompatible	REMOVE	-
208	Evergreen pear	Pyrus kawakamii	11.9	2.0	1.0	14.9	Building	Incompatible	REMOVE	-
209	Evergreen pear	Pyrus kawakamii	10.2	1.0	1.0	15.3	Building	Incompatible	REMOVE	-
210	Unknown	Unknown sp.	6.3	2.0	2.0	6.3	Building	Incompatible	REMOVE	-
211	Unknown	Unknown sp.	5.1	2.0	2.0	5.1	Building	Incompatible	REMOVE	-
212	White birch	Betula pendula	7.2	2.0	1.0	9.0	Building	Incompatible	REMOVE	-
213	White birch	Betula pendula	9.1	3.0	1.0	9.1	Building	Incompatible	REMOVE	-
214	White birch	Betula pendula	5.4	3.0	1.0	5.4	Building	Incompatible	REMOVE	-
215	White birch	Betula pendula	7.0	3.0	1.0	7.0	Building	Incompatible	REMOVE	-
216	Japanese maple	Acer palmatum	6.0	3.0	2.0	4.5	Building	Incompatible	REMOVE	-
217	Japanese maple	Acer palmatum	5.4	3.0	2.0	4.1	Building	Incompatible	REMOVE	-
218	Japanese maple	Acer palmatum	6.0	3.0	2.0	4.5	Building	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
219	Weeping cherry	Prunus subhirtella 'Pendula'	6.0	3.0	2.0	4.5	Building	Incompatible	REMOVE	-
220	Japanese maple	Acer palmatum	4.3	3.0	2.0	3.2	Building	Incompatible	REMOVE	-
221	Japanese maple	Acer palmatum	7.0	3.0	2.0	5.3	Building	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
222	Weeping cherry	Prunus subhirtella 'Pendula'	4.5	3.0	2.0	3.4	Building	Incompatible	REMOVE	-
223	Ornamental cherry	Prunus sp.	4.8	2.0	2.0	4.8	Building	Incompatible	REMOVE	-
224	White birch	Betula pendula	6.6	3.0	1.0	6.6	Building	Incompatible	REMOVE	Planted in same hole as 225.
225	White birch	Betula pendula	8.1	3.0	1.0	8.1	Building	Incompatible	REMOVE	Planted in same hole is 224.
226	Japanese maple	Acer palmatum	5.0	3.0	2.0	3.8	Building	Incompatible	REMOVE	-
227	White birch	Betula pendula	6.6	3.0	1.0	6.6	Building	Incompatible	REMOVE	-
228	White birch	Betula pendula	7.1	3.0	1.0	7.1	Building	Incompatible	REMOVE	-
229	Japanese maple	Acer palmatum	5.9	2.0	2.0	5.9	Building	Incompatible	REMOVE	-
230	Japanese maple	Acer palmatum	4.4	2.0	2.0	4.4	Building	Incompatible	REMOVE	-
231	Japanese maple	Acer palmatum	6.0	3.0	2.0	4.5	Building	Incompatible	REMOVE	-
232	Crape myrtle	Lagerstroemia indica	5.8	3.0	2.0	4.4	Building	Incompatible	REMOVE	-
233	Crape myrtle	Lagerstroemia indica	5.6	3.0	2.0	4.2	Building	Incompatible	REMOVE	-
234	Raywood ash	Fraxinus angustifolia 'Raywood'	9.8	2.0	1.0	12.3	Building	Incompatible	REMOVE	-
235	Raywood ash	Fraxinus angustifolia 'Raywood'	13.2	2.0	1.0	16.5	Building	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
236	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	2.0	1.0	10.3	Driveway	Unknown	REMOVE	Minor-moderate from driveway; unknown from retention area
237	Raywood ash	Fraxinus angustifolia 'Raywood'	8.5	2.0	1.0	10.6	Driveway	Incompatible	REMOVE	-
238	Evergreen pear	Pyrus kawakamii	5.3	2.0	1.0	6.6	Building	Incompatible	REMOVE	-
239	Evergreen pear	Pyrus kawakamii	12.0	2.0	1.0	15.0	Building	Incompatible	REMOVE	-
240	Evergreen pear	Pyrus kawakamii	12.8	2.0	1.0	16.0	Building	Incompatible	REMOVE	-
241	Raywood ash	Fraxinus angustifolia 'Raywood'	14.7	2.0	1.0	18.4	Building	Incompatible	REMOVE	-
242	Raywood ash	Fraxinus angustifolia 'Raywood'	12.9	2.0	1.0	16.1	Building	Incompatible	REMOVE	-
243	Green ash	Fraxinus pennsylvanica	8.0	3.0	3.0	4.0	Driveway	Incompatible	REMOVE	Diameter measured at base, as tree is multi-stemmed.
244	Raywood ash	Fraxinus angustifolia 'Raywood'	5.5	2.0	1.0	6.9	Driveway	Incompatible	REMOVE	-
245	London plane	Platanus x acerifolia	16.8	3.0	1.0	16.8	Driveway	Incompatible	REMOVE	-
246	Evergreen pear	Pyrus kawakamii	13.2	2.0	1.0	16.5	Building	Incompatible	REMOVE	-
247	Chinese pistache	Pistacia chinensis	4.8	3.0	3.0	2.4	Building	Incompatible	REMOVE	-
248	Chinese pistache	Pistacia chinensis	5.6	3.0	3.0	2.8	Building	Incompatible	REMOVE	-
249	Chinese pistache	Pistacia chinensis	5.6	3.0	3.0	2.8	Generator yard	Incompatible	REMOVE	-
250	Raywood ash	Fraxinus angustifolia 'Raywood'	10.7	2.0	1.0	13.4	Driveway	Incompatible	REMOVE	-
251	Raywood ash	Fraxinus angustifolia 'Raywood'	12.2	2.0	1.0	15.3	Driveway	Incompatible	REMOVE	-
252	London plane	Platanus x acerifolia	9.7	2.0	1.0	12.1	Transmission lines	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
253	Evergreen pear	Pyrus kawakamii	8.7	2.0	1.0	10.9	Driveway	Incompatible	REMOVE	-
254	Chinese pistache	Pistacia chinensis	3.5	3.0	3.0	1.8	Generator yard	Incompatible	REMOVE	-
255	Chinese pistache	Pistacia chinensis	4.6	3.0	3.0	2.3	Generator yard	Incompatible	REMOVE	-
256	Raywood ash	Fraxinus angustifolia 'Raywood'	16.8	2.0	1.0	21.0	Generator yard	Incompatible	REMOVE	-
257	Raywood ash	Fraxinus angustifolia 'Raywood'	13.1	2.0	1.0	16.4	Generator yard	Incompatible	REMOVE	-
258	Raywood ash	Fraxinus angustifolia 'Raywood'	6.8	2.0	1.0	8.5	Retention area	Incompatible	REMOVE	-
259	Evergreen pear	Pyrus kawakamii	14.7	2.0	1.0	18.4	Retention area	Incompatible	REMOVE	-
260	Evergreen pear	Pyrus kawakamii	11.6	2.0	1.0	14.5	Retention area	Incompatible	REMOVE	-
261	Evergreen pear	Pyrus kawakamii	16.6	2.0	1.0	20.8	Driveway	Incompatible	REMOVE	-
262	Evergreen pear	Pyrus kawakamii	15.8	2.0	1.0	19.8	Driveway	Incompatible	REMOVE	-
263	Raywood ash	Fraxinus angustifolia 'Raywood'	16.6	2.0	1.0	20.8	Driveway	Incompatible	REMOVE	-
264	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	2.0	1.0	10.3	Transmission lines	Incompatible	REMOVE	-
265	London plane	Platanus x acerifolia	8.2	2.0	1.0	10.3	Transmission lines	Incompatible	REMOVE	-
266	Evergreen pear	Pyrus kawakamii	15.1	2.0	1.0	18.9	Transmission lines	Incompatible	REMOVE	Limb failure, apparently in approximately 2018.
267	Evergreen pear	Pyrus kawakamii	12.6	2.0	1.0	15.8	Transmission lines	Incompatible	REMOVE	-
268	Evergreen pear	Pyrus kawakamii	4.8	2.0	1.0	6.0	Driveway	Incompatible	REMOVE	-
269	Evergreen pear	Pyrus kawakamii	14.3	2.0	1.0	17.9	Driveway	Incompatible	REMOVE	-
270	Raywood ash	Fraxinus angustifolia 'Raywood'	16.1	2.0	1.0	20.1	Driveway	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
271	Raywood ash	Fraxinus angustifolia 'Raywood'	13.8	1.0	1.0	20.7	Transmission lines	Incompatible	REMOVE	-
272	Raywood ash	Fraxinus angustifolia 'Raywood'	13.6	2.0	1.0	17.0	Transmission lines	Incompatible	REMOVE	-
273	London plane	Platanus x acerifolia	8.9	3.0	1.0	8.9	Transmission lines	Incompatible	REMOVE	-
274	Raywood ash	Fraxinus angustifolia 'Raywood'	13.0	2.0	1.0	16.3	Retention area	Minor	Retain	-
275	Raywood ash	Fraxinus angustifolia 'Raywood'	9.2	1.0	1.0	13.8	Transmission lines	Incompatible	REMOVE	-
276	Raywood ash	Fraxinus angustifolia 'Raywood'	12.1	2.0	1.0	15.1	Transmission lines	Incompatible	REMOVE	-
277	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	Building	Incompatible	REMOVE	-
278	Crape myrtle	Lagerstroemia indica	5.4	3.0	2.0	4.1	Building	Incompatible	REMOVE	-
279	Crape myrtle	Lagerstroemia indica	5.9	3.0	2.0	4.4	Building	Incompatible	REMOVE	-
280	Crape myrtle	Lagerstroemia indica	4.3	3.0	2.0	3.2	Building	Incompatible	REMOVE	-
281	Crape myrtle	Lagerstroemia indica	5.5	3.0	2.0	4.1	Building	Incompatible	REMOVE	-
282	African fern pine	Afrocarpus gracilior	6.2	3.0	3.0	3.1	Building	Incompatible	REMOVE	-
283	African fern pine	Afrocarpus gracilior	8.1	3.0	3.0	4.1	Building	Incompatible	REMOVE	-
284	African fern pine	Afrocarpus gracilior	8.5	3.0	3.0	4.3	Building	Incompatible	REMOVE	-
285	African fern pine	Afrocarpus gracilior	8.9	3.0	3.0	4.5	Building	Incompatible	REMOVE	-
286	African fern pine	Afrocarpus gracilior	7.7	3.0	3.0	3.9	Building	Incompatible	REMOVE	-
287	Ornamental cherry	Prunus sp.	4.0	2.0	2.0	4.0	Building	Incompatible	REMOVE	-
288	Ornamental cherry	Prunus sp.	4.4	2.0	2.0	4.4	Building	Incompatible	REMOVE	-
289	Smoke tree	Cotinus coggygria	5.8	3.0	2.0	4.4	Building	Incompatible	REMOVE	-
290	Smoke tree	Cotinus coggygria	6.0	3.0	2.0	4.5	Building	Incompatible	REMOVE	-
291	Crape myrtle	Lagerstroemia indica	6.1	3.0	2.0	4.6	Building	Incompatible	REMOVE	-
292	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	Building	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
293	Crape myrtle	Lagerstroemia indica	6.0	3.0	2.0	4.5	Generator yard	Incompatible	REMOVE	-
294	African fern pine	Afrocarpus gracilior	9.0	3.0	3.0	4.5	Generator yard	Incompatible	REMOVE	-
295	Crape myrtle	Lagerstroemia indica	5.8	3.0	2.0	4.4	Generator yard	Incompatible	REMOVE	-
296	Crape myrtle	Lagerstroemia indica	7.2	3.0	2.0	5.4	Generator yard	Incompatible	REMOVE	-
297	African fern pine	Afrocarpus gracilior	8.9	3.0	3.0	4.5	Generator yard	Incompatible	REMOVE	-
298	African fern pine	Afrocarpus gracilior	9.0	3.0	3.0	4.5	Generator yard	Incompatible	REMOVE	-
299	African fern pine	Afrocarpus gracilior	6.9	3.0	3.0	3.5	Generator yard	Incompatible	REMOVE	-
300	Crape myrtle	Lagerstroemia indica	5.7	3.0	2.0	4.3	Generator yard	Incompatible	REMOVE	-
301	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	Generator yard	Incompatible	REMOVE	-
302	Crape myrtle	Lagerstroemia indica	5.2	3.0	2.0	3.9	Generator yard	Incompatible	REMOVE	-
303	Ornamental cherry	Prunus sp.	4.2	3.0	2.0	3.2	Generator yard	Incompatible	REMOVE	-
304	African fern pine	Afrocarpus gracilior	10.8	3.0	3.0	5.4	Driveway	Incompatible	REMOVE	-
305	Pygmy date palm	Phoenix robelenii	4.6	2.0	2.0	4.6	Driveway	Incompatible	REMOVE	-
306	Pygmy date palm	Phoenix robelenii	4.5	2.0	2.0	4.5	Driveway	Incompatible	REMOVE	-
307	Raywood ash	Fraxinus angustifolia 'Raywood'	8.2	2.0	1.0	10.3	Driveway	Incompatible	REMOVE	-
308	Chinese pistache	Pistacia chinensis	14.1	3.0	3.0	7.1	Driveway	Incompatible	REMOVE	-
309	Evergreen pear	Pyrus kawakamii	14.7	2.0	1.0	18.4	Driveway	Incompatible	REMOVE	-
310	Evergreen pear	Pyrus kawakamii	15.0	2.0	1.0	18.8	Driveway	Incompatible	REMOVE	-
311	Evergreen pear	Pyrus kawakamii	10.8	2.0	1.0	13.5	Driveway	Incompatible	REMOVE	-
312	Evergreen pear	Pyrus kawakamii	15.4	2.0	1.0	19.3	Driveway	Incompatible	REMOVE	-
313	Raywood ash	Fraxinus angustifolia 'Raywood'	18.3	2.0	1.0	22.9	Driveway	Incompatible	REMOVE	-
314	Chinese pistache	Pistacia chinensis	5.1	3.0	3.0	2.6	None	Minor	Retain	-
315	Crape myrtle	Lagerstroemia indica	4.5	3.0	2.0	3.4	Retention area	Minor	Retain	-
316	Weeping willow	Salix babylonica	15.8	3.0	2.0	11.9	Driveway	Incompatible	REMOVE	-
317	Ornamental cherry	Prunus sp.	8.9	3.0	2.0	6.7	Driveway	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
318	Ornamental cherry	Prunus sp.	11.2	3.0	2.0	8.4	Driveway	Incompatible	REMOVE	Orange tape around trunk.
319	Ornamental cherry	Prunus sp.	7.4	3.0	2.0	5.6	Driveway	Incompatible	REMOVE	-
320	Ornamental cherry	Prunus sp.	6.2	3.0	2.0	4.7	Concrete path	Incompatible	REMOVE	-
321	Ornamental cherry	Prunus sp.	5.4	3.0	2.0	4.1	Retention area	Incompatible	REMOVE	-
322	Ornamental cherry	Prunus sp.	9.0	3.0	2.0	6.8	Driveway	Incompatible	REMOVE	-
323	Ornamental cherry	Prunus sp.	8.8	3.0	2.0	6.6	Driveway	Incompatible	REMOVE	-
324	Ornamental cherry	Prunus sp.	10.1	3.0	2.0	7.6	Driveway	Incompatible	REMOVE	-
325	White birch	Betula pendula	10.3	3.0	1.0	10.3	Retention area	Incompatible	REMOVE	-
326	China doll tree	Radermachera sinica	5.5	2.0	2.0	5.5	Retention area	Incompatible	REMOVE	-
327	China doll tree	Radermachera sinica	4.8	2.0	2.0	4.8	Retention area	Incompatible	REMOVE	-
328	China doll tree	Radermachera sinica	6.0	2.0	2.0	6.0	Retention area	Incompatible	REMOVE	-
329	Ornamental cherry	Prunus sp.	11.1	3.0	2.0	8.3	None	Minor	Retain	-
330	Ornamental cherry	Prunus sp.	17.8	3.0	2.0	13.4	Concrete path	Incompatible	REMOVE	-
331	Ornamental cherry	Prunus sp.	7.9	3.0	2.0	5.9	Concrete path	Incompatible	REMOVE	-
332	Ornamental cherry	Prunus sp.	7.8	3.0	2.0	5.9	Concrete path	Incompatible	REMOVE	-
333	Ornamental cherry	Prunus sp.	12.0	3.0	2.0	9.0	Concrete path	Minor	Retain	-
334	Ornamental cherry	Prunus sp.	12.5	3.0	2.0	9.4	Concrete path	Minor	Retain	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
335	Ornamental cherry	Prunus sp.	8.5	3.0	2.0	6.4	Driveway	Incompatible	REMOVE	-
336	Hackberry	Celtis sp.	4.1	3.0	2.0	3.1	Driveway	Incompatible	REMOVE	Pruning needed for construction access
337	Peruvian pepper	Schinus molle	12.0	3.0	2.0	9.0	Driveway	Incompatible	REMOVE	DBH estimated, as trunk is inaccessible due to low branches and dense shrubbery; pruning needed for construction access
338	London plane	Platanus x acerifolia	24.0	3.0	1.0	24.0	Driveway	Major	REMOVE	DBH estimated, as trunk is inaccessible due to low branches and dense shrubbery
339	Red ironbark	Eucalyptus sideroxylon	15.1	1.0	3.0	15.1	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
340	Red ironbark	Eucalyptus sideroxylon	19.0	0.0	3.0	0.0	N/A (dead)	N/A (dead)	REMOVE	Dead
341	Holly oak	Quercus ilex	10.2	3.0	3.0	5.1	Transmission lines	Incompatible	REMOVE	-
342	Red ironbark	Eucalyptus sideroxylon	18.8	1.0	3.0	18.8	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
343	Peruvian pepper	Schinus molle	11.2	3.0	2.0	8.4	Transmission lines	Incompatible	REMOVE	Two stems, DBH 7.7, 7.0

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
344	Red ironbark	Eucalyptus sideroxylon	19.2	1.0	3.0	19.2	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
345	Red ironbark	Eucalyptus sideroxylon	19.3	2.0	3.0	14.5	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
346	Red ironbark	Eucalyptus sideroxylon	23.7	3.0	3.0	11.9	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
347	Red ironbark	Eucalyptus sideroxylon	24.7	3.0	3.0	12.4	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
348	Blackwood acacia	Acacia melanoxylon	15.6	3.0	3.0	7.8	Transmission lines	Incompatible	REMOVE	-
349	Red ironbark	Eucalyptus sideroxylon	25.1	3.0	3.0	12.6	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
350	Red ironbark	Eucalyptus sideroxylon	18.9	2.0	3.0	14.2	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
351	Red ironbark	Eucalyptus sideroxylon	30.0	3.0	3.0	15.0	Transmission lines	Incompatible	REMOVE	DBH estimated, as trunk is inaccessible due to brush pile at base.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
352	Red ironbark	Eucalyptus sideroxylon	25.6	2.0	3.0	19.2	Transmission lines	Incompatible	REMOVE	Severely topped by others for power line clearance.
353	Evergreen pear	Pyrus kawakamii	18.0	3.0	1.0	18.0	Transmission lines	Incompatible	REMOVE	DBH estimated, as trunk is inaccessible due to low branches.
354	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	Transmission lines	Incompatible	REMOVE	DBH estimated, as trunk is inaccessible due to dense shrubbery.
355	Italian cypress	Cupressus sempervirens	13.8	3.0	2.0	10.4	None	Minor	Retain	-
356	Italian cypress	Cupressus sempervirens	12.5	3.0	2.0	9.4	None	Minor	Retain	-
357	Italian cypress	Cupressus sempervirens	11.5	3.0	2.0	8.6	None	Minor	Retain	-
358	Italian cypress	Cupressus sempervirens	9.5	3.0	2.0	7.1	None	Minor	Retain	-
359	Italian cypress	Cupressus sempervirens	8.0	3.0	2.0	6.0	None	Minor	Retain	DBH estimated, as trunk is inaccessible due to low branches
360	Red ironbark	Eucalyptus sideroxylon	32.1	3.0	3.0	16.1	None	Minor	Retain	Severely topped by others for power line clearance.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
361	Italian cypress	Cupressus sempervirens	8.0	3.0	2.0	6.0	None	Minor	Retain	DBH estimated, as trunk is inaccessible due to low branches
362	Italian cypress	Cupressus sempervirens	10.0	3.0	2.0	7.5	None	Minor	Retain	DBH estimated, as trunk is inaccessible due to low branches.
363	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	DBH is estimated, as trunk is inaccessible due to fence fabric wrapped around trunk
364	Italian cypress	Cupressus sempervirens	2.0	3.0	2.0	1.5	None	Minor	Retain	DBH estimated. Newly planted.
365	Italian cypress	Cupressus sempervirens	3.0	3.0	2.0	2.3	None	Minor	Retain	DBH estimated. Newly planted.
366	Italian cypress	Cupressus sempervirens	2.0	3.0	2.0	1.5	None	Minor	Retain	DBH estimated. Newly planted.
367	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	DBH estimated, as trunk is covered by fence fabric.
368	Italian cypress	Cupressus sempervirens	13.0	3.0	2.0	9.8	None	Minor	Retain	-
369	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	DBH estimated, as trunk is covered by fence fabric.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
370	Italian cypress	Cupressus sempervirens	2.0	3.0	2.0	1.5	None	Minor	Retain	DBH estimated. Newly planted.
371	Italian cypress	Cupressus sempervirens	2.0	3.0	2.0	1.5	None	Minor	Retain	DBH estimated. Newly planted.
372	Italian cypress	Cupressus sempervirens	13.5	3.0	2.0	10.1	None	Minor	Retain	-
373	Italian cypress	Cupressus sempervirens	12.3	3.0	2.0	9.2	None	Minor	Retain	-
374	Italian cypress	Cupressus sempervirens	11.3	3.0	2.0	8.5	None	Minor	Retain	-
375	Italian cypress	Cupressus sempervirens	11.7	3.0	2.0	8.8	None	Minor	Retain	-
376	Italian cypress	Cupressus sempervirens	12.1	3.0	2.0	9.1	None	Minor	Retain	-
377	Italian cypress	Cupressus sempervirens	12.2	3.0	2.0	9.2	None	Minor	Retain	-
378	Italian cypress	Cupressus sempervirens	11.1	3.0	2.0	8.3	None	Minor	Retain	-
379	Italian cypress	Cupressus sempervirens	10.9	3.0	2.0	8.2	None	Minor	Retain	-
380	Italian cypress	Cupressus sempervirens	10.5	3.0	2.0	7.9	None	Minor	Retain	-
381	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	DBH estimated, as trunk is inaccessible due to low branches.
382	Italian cypress	Cupressus sempervirens	11.2	3.0	2.0	8.4	None	Minor	Retain	-
383	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
384	Italian cypress	Cupressus sempervirens	11.5	3.0	2.0	8.6	None	Minor	Retain	-
385	Italian cypress	Cupressus sempervirens	9.9	3.0	2.0	7.4	None	Minor	Retain	-
386	Italian cypress	Cupressus sempervirens	6.7	3.0	2.0	5.0	None	Minor	Retain	-
387	Italian cypress	Cupressus sempervirens	7.4	3.0	2.0	5.6	None	Minor	Retain	-
388	Italian cypress	Cupressus sempervirens	8.9	3.0	2.0	6.7	None	Minor	Retain	-
389	Italian cypress	Cupressus sempervirens	10.4	3.0	2.0	7.8	None	Minor	Retain	-
390	Italian cypress	Cupressus sempervirens	11.5	3.0	2.0	8.6	None	Minor	Retain	-
391	Italian cypress	Cupressus sempervirens	12.0	3.0	2.0	9.0	None	Minor	Retain	-
392	Italian cypress	Cupressus sempervirens	11.7	3.0	2.0	8.8	None	Minor	Retain	-
393	Italian cypress	Cupressus sempervirens	13.0	3.0	2.0	9.8	None	Minor	Retain	-
394	Italian cypress	Cupressus sempervirens	11.4	3.0	2.0	8.6	None	Minor	Retain	-
395	Italian cypress	Cupressus sempervirens	12.5	3.0	2.0	9.4	None	Minor	Retain	-
396	Italian cypress	Cupressus sempervirens	11.0	3.0	2.0	8.3	None	Minor	Retain	-
397	Italian cypress	Cupressus sempervirens	11.5	3.0	2.0	8.6	None	Minor	Retain	-
398	Italian cypress	Cupressus sempervirens	8.7	3.0	2.0	6.5	None	Minor	Retain	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
399	Blackwood acacia	Acacia melanoxylon	12.0	3.0	3.0	6.0	None	Minor	Retain	DBH estimated, as trunk has grown into fence.
400	Blackwood acacia	Acacia melanoxylon	8.0	3.0	3.0	4.0	None	Minor	Retain	DBH estimated, as trunk has grown into fence.
401	Blackwood acacia	Acacia melanoxylon	14.6	3.0	3.0	7.3	None	Minor	Retain	-
402	Italian cypress	Cupressus sempervirens	7.1	3.0	2.0	5.3	None	Minor	Retain	-
403	Blackwood acacia	Acacia melanoxylon	11.1	3.0	3.0	5.6	None	Minor	Retain	-
404	Blackwood acacia	Acacia melanoxylon	4.6	3.0	3.0	2.3	None	Minor	Retain	-
405	Blackwood acacia	Acacia melanoxylon	7.3	3.0	3.0	3.7	None	Minor	Retain	-
406	Blackwood acacia	Acacia melanoxylon	6.2	3.0	3.0	3.1	None	Minor	Retain	-
407	Red ironbark	Eucalyptus sideroxylon	31.2	3.0	3.0	15.6	None	Minor	Retain	Severely topped by others for power line clearance.
408	Blackwood acacia	Acacia melanoxylon	5.7	3.0	3.0	2.9	None	Minor	Retain	-
409	Blackwood acacia	Acacia melanoxylon	18.8	3.0	3.0	9.4	None	Minor	Retain	-
410	Blackwood acacia	Acacia melanoxylon	8.7	3.0	3.0	4.4	None	Minor	Retain	-
411	Red ironbark	Eucalyptus sideroxylon	24.0	0.0	3.0	0.0	N/A (dead)	N/A (dead)	REMOVE	DBH estimated. Tree was removed prior to my site visit, apparently in early 2019.
412	Red ironbark	Eucalyptus sideroxylon	23.4	3.0	3.0	11.7	None	Minor	Retain	Severely topped by others for power line clearance.

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
413	Blackwood acacia	Acacia melanoxylon	21.8	3.0	3.0	10.9	None	Minor	Retain	-
414	Red ironbark	Eucalyptus sideroxylon	24.0	0.0	3.0	0.0	N/A (dead)	N/A (dead)	REMOVE	DBH estimated. Tree was removed prior to my site visit, apparently in early 2019.
415	Blackwood acacia	Acacia melanoxylon	22.5	3.0	3.0	11.3	None	Minor	Retain	-
416	Red ironbark	Eucalyptus sideroxylon	28.7	3.0	3.0	14.4	None	Minor	Retain	Severely topped by others for power line clearance.
417	London plane	Platanus x acerifolia	8.4	3.0	1.0	8.4	None	Minor	Retain	-
418	London plane	Platanus x acerifolia	10.5	3.0	1.0	10.5	None	Minor	Retain	-
419	London plane	Platanus x acerifolia	10.2	3.0	1.0	10.2	None	Minor	Retain	-
420	Callery pear	Pyrus calleryana	10.2	3.0	2.0	7.7	Driveway	Incompatible	REMOVE	-
421	Callery pear	Pyrus calleryana	10.5	3.0	2.0	7.9	Driveway	Incompatible	REMOVE	-
422	Callery pear	Pyrus calleryana	10.7	3.0	2.0	8.0	Driveway	Incompatible	REMOVE	-
423	Callery pear	Pyrus calleryana	10.0	2.0	2.0	10.0	Driveway	Incompatible	REMOVE	Canopy appears healthy, but major trunk dieback is present.
424	Callery pear	Pyrus calleryana	8.4	3.0	2.0	6.3	Driveway	Incompatible	REMOVE	-
425	Callery pear	Pyrus calleryana	11.6	3.0	2.0	8.7	Driveway	Incompatible	REMOVE	-
426	Crape myrtle	Lagerstroemia indica	7.6	3.0	2.0	5.7	Driveway	Incompatible	REMOVE	-
427	Crape myrtle	Lagerstroemia indica	7.3	3.0	2.0	5.5	Driveway	Incompatible	REMOVE	-
428	Crape myrtle	Lagerstroemia indica	6.5	3.0	2.0	4.9	Driveway	Incompatible	REMOVE	-
429	Crape myrtle	Lagerstroemia indica	7.6	3.0	2.0	5.7	Driveway	Incompatible	REMOVE	-
430	Ornamental cherry	Prunus sp.	4.1	1.0	2.0	5.1	Driveway	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
431	Crape myrtle	Lagerstroemia indica	7.4	3.0	2.0	5.6	Driveway	Incompatible	REMOVE	-
432	Crape myrtle	Lagerstroemia indica	5.4	3.0	2.0	4.1	Driveway	Incompatible	REMOVE	-
433	Crape myrtle	Lagerstroemia indica	7.1	3.0	2.0	5.3	Driveway	Incompatible	REMOVE	-
434	White birch	Betula pendula	6.4	3.0	1.0	6.4	None	Minor	Retain	-
435	White birch	Betula pendula	8.8	3.0	1.0	8.8	None	Minor	Retain	-
436	Japanese maple	Acer palmatum	6.1	3.0	2.0	4.6	None	Minor	Retain	-
437	White birch	Betula pendula	8.1	3.0	1.0	8.1	None	Minor	Retain	-
438	White birch	Betula pendula	9.9	3.0	1.0	9.9	None	Minor	Retain	-
439	White birch	Betula pendula	10.6	3.0	1.0	10.6	None	Minor	Retain	-
440	Weeping willow	Salix babylonica	21.8	3.0	2.0	16.4	Driveway	Incompatible	REMOVE	-
441	Eastern redbud	Cercis canadensis	6.2	3.0	2.0	4.7	Building	Incompatible	REMOVE	-
442	Eastern redbud	Cercis canadensis	6.5	3.0	2.0	4.9	Building	Incompatible	REMOVE	-
443	Eastern redbud	Cercis canadensis	5.3	3.0	2.0	4.0	None	Minor	Retain	-
444	Eastern redbud	Cercis canadensis	6.2	3.0	2.0	4.7	None	Minor	Retain	-
445	Japanese maple	Acer palmatum	4.7	3.0	2.0	3.5	None	Minor	Retain	-
446	Ornamental cherry	Prunus sp.	9.2	3.0	2.0	6.9	Generator yard	Incompatible	REMOVE	-
447	Ornamental cherry	Prunus sp.	5.9	3.0	2.0	4.4	Generator yard	Incompatible	REMOVE	-
448	Weeping willow	Salix babylonica	21.4	3.0	2.0	16.1	Generator yard	Incompatible	REMOVE	-
449	White birch	Betula pendula	12.8	3.0	1.0	12.8	Driveway	Minor	Retain	-
450	Ornamental cherry	Prunus sp.	7.8	3.0	2.0	5.9	Driveway	Incompatible	REMOVE	-
451	Ornamental cherry	Prunus sp.	7.5	3.0	2.0	5.6	Driveway	Incompatible	REMOVE	-
452	Ornamental cherry	Prunus sp.	7.4	3.0	2.0	5.6	Driveway	Incompatible	REMOVE	-
453	Ornamental cherry	Prunus sp.	5.4	3.0	2.0	4.1	Driveway	Incompatible	REMOVE	-

Tree Number	Species	Latin Name	DBH (in.)	Vigor Rating (0-3)	Species Construction Tolerance (1 = poor, 3 = good)	TPZ radius (ideal; feet)	Project Feature(s) Impacting	Expected Impact Level	Disposition	Notes
454	Eastern redbud	Cercis canadensis	6.8	3.0	2.0	5.1	Concrete path	Minor	Retain	-
455	Eastern redbud	Cercis canadensis	5.2	3.0	2.0	3.9	None	Minor	Retain	-
456	Ornamental cherry	Prunus sp.	6.0	3.0	2.0	4.5	Generator yard	Incompatible	REMOVE	-
457	Ornamental cherry	Prunus sp.	7.0	3.0	2.0	5.3	Generator yard	Incompatible	REMOVE	-
458	White birch	Betula pendula	4.8	3.0	1.0	4.8	Building	Incompatible	REMOVE	-
459	White birch	Betula pendula	7.1	3.0	1.0	7.1	Building	Incompatible	REMOVE	-
460	White birch	Betula pendula	4.7	3.0	1.0	4.7	Building	Incompatible	REMOVE	-
461	Eastern redbud	Cercis canadensis	5.5	3.0	2.0	4.1	Building	Incompatible	REMOVE	-
462	Eastern redbud	Cercis canadensis	4.2	3.0	2.0	3.2	Building	Incompatible	REMOVE	-
463	Eastern redbud	Cercis canadensis	4.9	3.0	2.0	3.7	Generator yard	Incompatible	REMOVE	-
464	Ornamental cherry	Prunus sp.	7.5	3.0	2.0	5.6	Generator yard	Incompatible	REMOVE	-
465	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	Generator yard	Incompatible	REMOVE	-
466	Crape myrtle	Lagerstroemia indica	5.0	3.0	2.0	3.8	Generator yard	Incompatible	REMOVE	-
467	Crape myrtle	Lagerstroemia indica	4.9	3.0	2.0	3.7	Generator yard	Incompatible	REMOVE	-
468	Ornamental cherry	Prunus sp.	6.1	3.0	2.0	4.6	Generator yard	Incompatible	REMOVE	-
469	Ornamental cherry	Prunus sp.	5.1	3.0	2.0	3.8	Generator yard	Incompatible	REMOVE	-
470	Ornamental cherry	Prunus sp.	9.1	3.0	2.0	6.8	Generator yard	Incompatible	REMOVE	-
471	White birch	Betula pendula	7.4	3.0	1.0	7.4	None	Minor	Retain	-
472	Crape myrtle	Lagerstroemia indica	5.0	3.0	2.0	3.8	None	Minor	Retain	-
473	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	None	Minor	Retain	-
474	Crape myrtle	Lagerstroemia indica	5.1	3.0	2.0	3.8	None	Minor	Retain	-
475	Crape myrtle	Lagerstroemia indica	5.9	3.0	2.0	4.4	Driveway	Incompatible	REMOVE	-
476	Crape myrtle	Lagerstroemia indica	6.3	3.0	2.0	4.7	Driveway	Incompatible	REMOVE	-

ATTACHMENT BIO DR-101

Revised PD BIO-2

PD BIO-2: The project will incorporate the following measures, in accordance with the arborist recommendations, to protect trees from harm that could occur during construction. **Any additional measures required by the City of Santa Clara would also be implemented.**

- Remove trees ~~#1-6, 15, 21, 23-25, 42-78, 80-83, 94-97, 99-251, 253-257, 259-263, 268-270, 277-313, 315-328, 330-332, 335-338, 340, 411, 414, 420-433, 446-448, 450-453, 456-470, 475, and 476~~#1-25, 30-32, 42-97, 99-273, 275-313, 316-328, 330-332, 335-354, 411, 414, 420-433, 440-442, 446-448, 450-453, 456-470, 475, and 476, upon approval from the City of Santa Clara.
- Remove deadwood from remaining Callery pears and Raywood ashes. This will benefit both tree health and worker safety.
- All tree work must be completed by trained tree care personnel under the direction of an International Society of Arboriculture Certified Arborist.
- The Applicant shall alert the Project Arborist when new drawings are available showing grading, utilities, retention area details, or material changes to project features.
- Tree protection fencing shall be installed prior to any demolition equipment entering the site.
    - Fencing shall be installed at or outside the tree protection areas of all trees to be retained.
    - Where existing pavement is within tree protection zones, install tree protection fencing at the edge of pavement. After demolition, relocated tree protection fencing to the edge of the tree protection area.
    - Install tree protection fencing at the edge of the project features.
    - For areas where no construction will occur, tree protection fencing will be installed at the perimeter of the area instead of around each tree individually.
    - Spread wood chips at least four inches thick within tree protection fencing.
- For existing hardscape to be demolished within tree protection zones:
    - Demolish the area nearest the tree first, and work outwards.
    - Do not operate machinery on unpaved areas within tree protection zones.
    - Upon completion of demolition, relocate tree protection fencing to at or outside the tree protection area.
- Minimize grading near trees. Do not complete any grading inside tree protection fencing.
- If live roots over one inch in diameter are encountered at any time, in any location, they must be pruned with a sharp saw or bypass pruners, as close to the edge of the excavation as possible. If roots over three inches in diameter are encountered, do not prune, but instead contact the Project Arborist to determine the best course of action.

- Irrigate all trees to be retained on a monthly basis with potable water, in the absence of heavyrain.
    - Irrigate using a soaker hose placed as close to the tree driplines as practical. Irrigate for 2-4 hours at a very low flow. If this causes runoff, reduce the flow rate. If this is impractical for any tree for any reason, contact the Project Arborist.

ATTACHMENT UTIL DR-103

Recycled Water Applications

Recycled Water Use Permit Application

SOUTH BAY WATER RECYCLING

3025 Tuers Road San Jose, CA 95121 408-277-3671 www.sanjoseca.gov/sbwr

CSC
SERVICE ID

PROJECT INFORMATION

ALL FIELDS REQUIRED

RETAILER: Santa Clara

4 DIGIT SITE ID:

METER BOX ID (single letter):

MODIFICATION ## (original is "0"):

CSC
PROJECT ID

☐ IRRIGATION ☑ INDUSTRIAL ☐ AGRICULTURAL

Digital Realty - 2825 Lafayette Street
PROJECT NAME — USE AREA SQUARE FOOTAGE

Data Center - Building Cooling
PROJECT DESCRIPTION

2825 Lafayette Street	Santa Clara	95054
STREET ADDRESS	CITY	ZIP CODE

Digital Realty	miles.johnson@kimley-horn.com
OWNER NAME	EMAIL

224-04-093
PHONE

CERTIFIED SITE SUPERVISOR

TBD	TBD
NAME	CERTIFICATION #

TBD
COMPANY / ENTITY

TBD	TBD
PHONE	EMAIL

Each site must have a designated Certified Site Supervisor present at all Cross-Connection tests to obtain a Use Permit. Visit the South Bay Water Recycling website www.sanjoseca.gov/sbwr/sitesupervisor to view the schedule of upcoming Site Supervisor training classes.

RETAILER INFO

☑ **PROPOSED USE REQUEST** ☐ **RECYCLED WATER USE PERMIT REQUEST**

32,350,000
ESTIMATED ANNUAL USE OF RECYCLED WATER (IN GALLONS)

Ryan Harrison	08/27/20
RETAILER REPRESENTATIVE	DATE

☑ NEW DEVELOPMENT ☐ RETROFIT / MODIFICATION ☐ ENHANCEMENT OWNERS ☐ PODIUM

☐ DUAL PLUMBING ☐ COOLING TOWER ☐ HOME OWNERS ASSOCIATION

☐ THE SERVICE ID LISTED ABOVE HAS BEEN VERIFIED TO BE IN COMPLIACE WITH ITS PERMIT (existing sites only)

WILL SBWR CROSS CONNECTION TEST PROCESS BE USED? YES ☑ NO ☐

(IF NO, PLEASE SUBMIT YOUR CROSS CONNECTION TEST PROCEDURE TO THE RETAILER FOR APPROVAL BEFORE TESTING)

SBWR

CROSS-CONNNECTION DATE

SBWR RERESENTATIVE — PERMIT ISSUE DATE

SUBMIT TO: SBWRPERMIT@SANJOSECA.GOV

REVISION 3.1.19

Recycled Water Use Permit Application

SOUTH BAY WATER RECYCLING

3025 Tuers Road San Jose, CA 95121 408-277-3671 www.sanjoseca.gov/sbwr

CSC
SERVICE ID

PROJECT INFORMATION

ALL FIELDS REQUIRED

RETAILER: Santa Clara

4 DIGIT SITE ID:

METER BOX ID (single letter):

MODIFICATION ## (original is "0"):

CSC
PROJECT ID

☑ IRRIGATION ☐ INDUSTRIAL ☐ AGRICULTURAL

Digital Realty - 2825 Lafayette Street	185,591
PROJECT NAME	USE AREA SQUARE FOOTAGE
Data Center - Site Irrigation	
PROJECT DESCRIPTION	

2825 Lafayette Street	Santa Clara	95054
STREET ADDRESS	CITY	ZIP CODE

Digital Realty	miles.johnson@kimley-horn.com
OWNER NAME	EMAIL
224-04-093	
PHONE	

CERTIFIED SITE SUPERVISOR

TBD	TBD
NAME	CERTIFICATION #
TBD	
COMPANY / ENTITY	
TBD	TBD
PHONE	EMAIL

Each site must have a designated Certified Site Supervisor present at all Cross-Connection tests to obtain a Use Permit. Visit the South Bay Water Recycling website www.sanjoseca.gov/sbwr/sitesupervisor to view the schedule of upcoming Site Supervisor training classes.

RETAILER INFO

☑ **PROPOSED USE REQUEST** ☐ **RECYCLED WATER USE PERMIT REQUEST**

2,225,150
ESTIMATED ANNUAL USE OF RECYCLED WATER (IN GALLONS)

Ryan Harrison	09/02/20
RETAILER REPRESENTATIVE	DATE

☑ NEW DEVELOPMENT ☐ RETROFIT / MODIFICATION ☐ ENHANCEMENT OWNERS ☐ PODIUM

☐ DUAL PLUMBING ☐ COOLING TOWER ☐ HOME OWNERS ASSOCIATION

☐ THE SERVICE ID LISTED ABOVE HAS BEEN VERIFIED TO BE IN COMPLIACE WITH ITS PERMIT (existing sites only)

WILL SBWR CROSS CONNECTION TEST PROCESS BE USED? YES ☑ NO ☐

(IF NO, PLEASE SUBMIT YOUR CROSS CONNECTION TEST PROCEDURE TO THE RETAILER FOR APPROVAL BEFORE TESTING)

SBWR

CROSS-CONNNECTION DATE

SBWR RERESENTATIVE

PERMIT ISSUE DATE

SUBMIT TO: SBWRPERMIT@SANJOSECA.GOV

REVISION 3.1.19