

SID COMMONS

Petaluma, California

REVISED ARBORIST'S REPORT & TREE INVENTORY

March 23, 2021

Prepared & Submitted By:

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SID COMMONS, PETALUMA, CA
TREE REMOVAL & MITIGATION CALCULATIONS

March 23, 2021

Of the more than 100 existing trees on this site, the following 6 protected trees will be removed, based on the Site Plan and Preliminary Grading Plan by CSWS12. The design team has realigned the driveway entry and the sidewalk to preserve two excellent specimens of coast redwood. For trees in good-excellent condition replacement will be at the rate of one-to-one trunk diameter inch, and for trees in fair or marginal condition or structural soundness, replacement will be at a two-to-one basis, as per City of Petaluma IZO, Section 17.065.

PROTECTED TREES TO BE REMOVED

Table with 5 columns: Tree #, Diameter, Species, Condition, Replacement ratio/trunk inches. Rows include trees 39, 40, 43, 102, 104, 200.

Total number of diameter inches of protected trees to be removed = 141"

Mitigation required per ordinance (minimum 24" box specimens):
If 24" box trees are used, 1 = 2" trunk diameter, 1 = 36" box tree = 3" trunk diameter,
1 = 48" box tree = 4" trunk replacement diameter
If all were 24" boxes that would require 71 - 24" box trees (141 divided by 2" = 70.5), all 36" box = 47 box trees (141 divided by 3"), 48" box trees = 36 trees. Any combination of those sizes to meet the required number of removed trunk inches is acceptable. If the City agrees, 15 gallon size containers may also be used for replacement mitigation, most likely at the ratio of 1" per 15 gal tree. Smaller container sizes would be especially suitable for planting valley oaks or other native species in terraced areas or other areas designated by the biological consultants. Field grown native trees are available from Specialty Oaks in Lower Lake and we can discuss equivalent caliper size from field grown trees for mitigation with the City.

Respectfully submitted,

Becky Duckles

Becky Duckles, Certified Consulting Arborist #WE-0796A

SID COMMONS - TREE EVALUATION and INVENTORY

Table with 5 columns: TREE #, SPECIES, TRUNK DIAMETER, GENERAL HEALTH, STRUCTURAL INTEGRITY, COMMENTS/RECOMMENDATIONS. Rows 1-21.

Prepared by B Duckles

Revised 8/04, 8/15, 9/16, 9/18, 9/20, 9/20, 10/20, 10/21

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SID COMMONS - TREE EVALUATION and INVENTORY

Table with 5 columns: TREE #, SPECIES, TRUNK DIAMETER, GENERAL HEALTH, STRUCTURAL INTEGRITY, COMMENTS/RECOMMENDATIONS. Rows 22-42.

Prepared by B Duckles

Revised 8/04, 8/15, 9/16, 9/18, 9/20, 9/20, 10/20, 10/21

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SID COMMONS - TREE EVALUATION and INVENTORY

Table with 5 columns: TREE #, SPECIES, TRUNK DIAMETER, GENERAL HEALTH, STRUCTURAL INTEGRITY, COMMENTS/RECOMMENDATIONS. Rows 43-66.

Prepared by B Duckles

Revised 8/04, 8/15, 9/16, 9/18, 9/20, 9/20, 10/20, 10/21

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SID COMMONS - TREE EVALUATION and INVENTORY

Table with 5 columns: TREE #, SPECIES, TRUNK DIAMETER, GENERAL HEALTH, STRUCTURAL INTEGRITY, COMMENTS/RECOMMENDATIONS. Rows 67-101.

Prepared by B Duckles

Revised 8/04, 8/15, 9/16, 9/18, 9/20, 9/20, 10/20, 10/21

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SID COMMONS - TREE EVALUATION and INVENTORY

Table with 5 columns: TREE #, SPECIES, TRUNK DIAMETER, GENERAL HEALTH, STRUCTURAL INTEGRITY, COMMENTS/RECOMMENDATIONS. Rows 102-212.

Prepared by B Duckles

Revised 8/04, 8/15, 9/16, 9/18, 9/20, 9/20, 10/20, 10/21

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REVISED TREE INVENTORY & EVALUATION
March 23, 2021

This is a gently sloping site, adjacent to the railroad right-of-way. It is bordered on the east side by Oak Creek 1 apartments, private homes on the southeast side, on the west by the railroad right-of-way, and by the Petaluma River floodway on the northeast side. All protected trees over 4" d.b.h. on this site that may be impacted by construction have been measured, identified and evaluated. They have been tagged in the field with numbers which relate to the numbers shown on the Grading Plan, the Tree Disposition Plan, and the Inventory/report.

Over the years several grass fires have started on this site and covered several acres, causing damage to many trees. I've been evaluating trees on this site since 2003. Their current condition is listed, assessing fire damage where it occurred. Most of the Monterey cypress which were growing near the old railroad right of way were badly damaged.

Additional revisions have been added to the plan which preserve more trees. I have updated the Tree Inventory and the mitigation calculations (which remain unchanged) and coordinated some details with Wayne Leach, the civil engineer for the project as well as the rest of the design team.

Report & Recommendations - The format of the Tree Inventory/Evaluation & Arborist's Report is as follows:
Tree Location Plan - The existing trees are located and numbered on the Preliminary Grading & Drainage Plan by CSW/Stuber Stroth, referenced for discussion in the Tree Inventory & Evaluation.
Tree Inventory & Evaluation - A listing and discussion of the existing trees on site, including the following information:

- Number - The number assigned to a tree for location reference on the Tree Location Map
Diameter - Trunk diameter at 54" above grade (d.b.h.), (unless noted otherwise)
Common Name
Botanical Name
Condition - Brief rating of tree's present overall health
Structure - Brief rating of tree's structural condition
Recommendations - Specific comments regarding tree status on proposed plans or treatment for tree condition. For consistency, dead trees are still shown on the plan and inventory for reference.
Tree Protection Measures - Site specific, to be printed on final plans
Tree Removal & Mitigation Calculations - As per Petaluma's ordinance, revised to show reduced number of protected tree removals

During the development of final plans, I will continue to provide information regarding existing trees to the project engineers and the rest of the design team. Tree Protection Measures shall be included on construction documents. Also, Tree Protection Fencing locations will be shown on the plans. Project engineers have already incorporated some tree protection input into their grading and site plans, and will use a special paving detail for sidewalks and walkways near protected trees.

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Although no changes in the final status of existing trees from the October 2020 submittal have occurred (no more or fewer removals), I have changed the date on the Tree Removal and Mitigation Calculations report to verify that it has been checked and is current.

Tree Protection Measures have been provided to the civil engineer for inclusion on construction documents. If there are any questions, or more information is needed, please contact me.

Respectfully submitted,

Becky Duckles

Becky Duckles, Project Arborist
ISA Certified Consulting Arborist #WE-0796A

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Petaluma, Ca

TREE PROTECTION NOTES

- 1. Plastic or chain link (panels with feet) tree protection fencing should be installed at the driplines of trees to remain, (or the outer edge of the dripline of groups of trees), if it must be removed during construction for access, it should be replaced immediately after work is completed. Work done within fenced tree protection zones should be done under the supervision of a monitoring arboret.
2. Pruning should be the minimum necessary for hazard reduction or necessary access, (i.e. the removal of deadwood 2" and larger, etc.), pedestrian and vehicular clearance, and crown restoration. It should be done by trained, qualified tree workers according to ISA Pruning Guidelines & ANSI-300 standards, prior to construction activity and fencing.
3. Where drainage swales or utilities must pass within protected tree driplines, they should be hand dug or excavated under the supervision of an arborist. Roots 2" + should be preserved where possible, carefully exposing them and installing pipe or liners under them.
4. If any roots larger than 1" are encountered that cannot be preserved, they should be cut cleanly across the face of the root with a sharp saw.
5. Arbormulch (chipped wood, bark and foliage) generated from pruning and trees to be removed shall be spread under protected trees (keep 1" away from tree trunks) to serve as a permanent top dressing and mulch. It should be augmented as needed to provide a 4" layer of mulch within the driplines of all protected trees to remain within the limits of construction, and designated landscape areas. This mulch will not be used within the riverbanks or terraced areas.
6. No parking, storage or disposal of materials (such as concrete slurry, paint, etc.), or other construction activity shall occur within driplines of protected trees to remain.
7. Excavation within terraced areas shall be kept a minimum of 10' from trunks of protected trees shown to be preserved. Rip rap or large boulders may be used to stabilize soil at edge of cuts near tree roots if needed.
8. An arborist shall be notified to be present on site during work within tree rootzones/driplines. 48 hours minimum notice is requested