



**TREE**  
**ASSOCIATES**

1729 Mariposa Circle  
Davis, CA 95618  
treeassociates.net

March 3, 2021

Belinda Young  
HOK

RE: Tree Evaluation, Impact Assessment and Preservation Specifications:  
2130 Douglas Boulevard, Roseville

Belinda,

Attached is an Arborist Report for 2130 Douglas Boulevard, Roseville.  
Please do not hesitate to contact me should you have questions regarding  
this report.

Sincerely,

John M. Lichter, M.S.  
ASCA Registered Consulting Arborist #375  
ISA Certified Arborist #863  
ISA Qualified Tree Risk Assessor  
ASCA Qualified Tree and Plant Appraiser





**TREE EVALUATION, IMPACT ASSESSMENT  
AND PRESERVATION SPECIFICATIONS  
2130 DOUGLAS BOULEVARD, ROSEVILLE**

**Prepared for  
HOK  
San Francisco, California**

**Prepared by  
TREE ASSOCIATES  
John M. Lichter, M.S.  
Owner, President, Principal Consulting Arborist  
ASCA Registered Consulting Arborist #375  
ISA Certified Arborist #863  
ISA Qualified Tree Risk Assessor  
ASCA Qualified Tree and Plant Appraiser**

**March 3, 2021**

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## History/Assignment

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I was contacted by Belinda Young with HOK who requested that I prepare an Arborist Report including a tree evaluation, impact assessment and preservation guidelines for a Kaiser Project located at 2130 Douglas Boulevard in Roseville. I included all trees with trunks on the property or on the property line as well as trees with trunks off the property which were close enough to the project site to potentially be impacted from the project.<sup>1</sup>

This report summarizes findings from my on-site evaluation and review of construction drawings. I have provided a rating of the severity of potential impacts of the proposed development as well as possible design modifications and construction methods to reduce impacts to the trees. I have also provided tree preservation specifications.

## Limits of the Assignment

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- Tree conditions change over time and, as they change, this report may need to be revised.
- It was assumed that no significant tree root injury occurred as the result of past demolition or any other activity.
- The tree impact assessment was based on my review of demolition, grading and utility plans dated January 8, 2021.
- Impact ratings assumed that 1) my description of construction was accurate; 2) my understanding of typical construction practices was accurate; 3) the extent of excavation was less than or equal to 5 feet off buildings and 1 foot off roadways, parking and walkways; 4) utility trenches were not laid back; 5) all preservation specifications would be followed, *including no soil disturbance within tree protection zones (TPZ's) or modified tree protection zones (MTPZ's)*.<sup>2</sup>
- Once construction plans are prepared, the impact assessment should be updated. If there are changes to the location of infrastructure or there is additional planned infrastructure/construction activity within the TPZ or MTPZ, the impact ratings and recommendations for retained trees may need to be adjusted.

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<sup>1</sup> Note that the City of Roseville's code indicates that protected trees are native oaks with trunk diameters equal to or exceeding 6 inches.

<sup>2</sup> A modified tree protection zone (MTPZ) is defined herein as the area remaining within a tree's tree protection zone excepting the area covered by infrastructure including over-excavation zones.

## Tree Evaluation

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Exhibit 1 summarizes the results of my tree evaluation between February 15<sup>th</sup> and 19<sup>th</sup>, 2021. For each of the trees, the following data is provided. Tree locations are found on the attached topographic plan.

- Tree # – corresponds to a unique tree number indicated on a tag affixed to each tree. Note that lettered trees were not tagged.
- Species – common and scientific name of the tree.
- Trunk Dia. – the diameter of the tree (in inches) at 4.5' above grade, unless measurement at another location between 1 and 5 feet above grade provided a more accurate reflection of the size of the tree.
- TPZ (Tree Protection Zone) – the radius in feet of a circular tree protection zone (centered at the trunk) recommended by the author.
- Comments – comments regarding tree and landscape features that influenced health, structure and condition ratings.
- Health Rating – rating between poor and good considering the overall health of the tree. A rating of fair-good or good indicates no significant health concerns.
- Structural Rating – rating between poor and good considering the overall structure of the tree. A rating of fair-good or good indicates no significant structural concerns.
- Recommendations – recommendations for tree work or treatments to improve tree structure or health or for further assessment, where necessary. Note: recommendations are indicated in red where removal was recommended.

## Tree Ownership Concerns

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The numbered trees and some of the lettered trees were located on the subject property. I lettered trees which I thought were off property during my field work. Reviewing the topographic plan, it appears that some of the lettered trees are off property and some are on the property line. While none of the off-site trees were protected native oaks, I recommend that tree impacts and preservation measures be considered.

## Tree Health Concerns

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Many of the trees located adjacent to the unlandscaped areas of the project were in poor health as a result of drought stress. This is because the portion of their root system outside of the landscaped area had not been irrigated.



## Tree Removal Recommendations

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I recommended eight of the trees be removed because they were in poor health and or structural condition (215,227,C,E,I,J,O and Q).<sup>3</sup> I also recommended that removal be considered for five additional trees. Four of these trees could be preserved with additional irrigation and tree work but it may not be worth the investment and replacing the trees may be a more appropriate course of action. Tree 221 was suppressed by neighboring trees in the grouping of native oaks and it would benefit the remaining trees slightly to remove this tree.

## Tree Impact Assessment

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I reviewed the project's demolition, grading and utility plans dated January 8, 2021. The following data were provided for the subject trees and the results may be found in Exhibit 2, entitled Tree Impact Assessment, 2130 Douglas Boulevard, Roseville.

- Tree Number – corresponds to a round aluminum tag affixed to each tree. Lettered trees do not have tags.
- TPZ (Tree Protection Zone) – the radius in feet of a circular tree protection zone (centered at the trunk) recommended by the author; typically, one foot per inch trunk diameter.
- Description of Pre-Demolition Infrastructure/Proposed Construction within TPZ – a description of 1) pre-demolition infrastructure (if present) and 2) proposed construction and its distance from the trunk within the TPZ (*Note that these distances do not include the assumed five and one foot over excavation*).
- Impact Rating – a rating low, moderate, high or severe considering the possible impact to tree condition from construction of the proposed plan. Impact ratings assumed that 1) my description of construction was accurate; 2) my understanding of typical construction practices was accurate; 3) the extent of excavation was less than or equal to 5 feet off buildings and 1 foot off roadways, parking and walkways; 4) utility trenches were not laid back; 5) all preservation specifications would be followed, *including no soil disturbance within tree protection zones (TPZ's) or modified tree protection zones (MTPZ's)*. If these assumptions are incorrect, the impact ratings and recommendations may need to be updated.
- Possible Design Modifications/Construction Methods - possible adjustments to the design and/or construction methods that could decrease the impact of the development to the trees. There may be other appropriate design modifications and/or construction methods.

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<sup>3</sup> Note that many of the lettered trees are located off site or on the property line.

## Summary of Tree Impact, Possible Design Modifications, Construction Methods

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The following table summarizes tree impact ratings for the trees included in this report.

<b>Impact Rating</b>	<b>Number of Trees</b>
Low	7
Low/Moderate	6
Moderate	2
Moderate/High	1
High	2
Severe	22
To be removed due to site layout conflicts	7
<b>TOTAL</b>	<b>47</b>

Seven of the trees were to be removed due to site layout conflicts. The majority of the remaining trees (63% of the trees to be retained) were given greater than moderate impact ratings and 22 trees (55% of the trees to be retained) were given severe impact ratings. Exhibit 2 provides possible design changes to reduce impacts to the trees.

It should also be noted that the landscape and irrigation plans (and other plans?) have yet not been completed. These should be reviewed and considered as well.

I have also recommended the use of construction methods which should minimize impacts. These methods as well as the tree preservation specifications should be incorporated into the design drawings.



## Tree Preservation Specifications

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The specifications presented below should be followed for all trees.

### *Design:*

- Upon review of this report, modify the design to accommodate my suggested design changes or other suitable modifications where possible and appropriate. A meeting or video conference call to discuss these issues is encouraged.
- Indicate tree location, numbers and tree protection zones on all civil construction plans. Where grading or infrastructure limits encroach into the TPZ's indicate modified Tree Protection Zones (MTPZ's). The TPZ/MTPZ's should be indicated on the plans as the location of tree protection fencing.
- Engage the Consulting Arborist to revise the development impact assessment as soon as civil construction plans are developed/revise.

### *Pre-Construction:*

- Install a temporary irrigation system capable of uniformly watering the soil within the protection zones of all trees except those to be removed.
- Irrigate the trees long enough to wet the soil to a depth of at least 24 inches once every two weeks during the non-Winter months (in the absence of rain). A tile probe may be used to determine the depth of moist soil.
- Inspect the irrigation system every two weeks during the irrigation period and repair leaks and adjust as necessary to optimize system performance.
- Install and maintain four inches of coarse woodchip mulch (from tree service operations or other source) within the TPZ's of all trees. Avoid placing mulch within three feet of trunks.
- Conduct a meeting to discuss tree preservation specifications between the Consulting Arborist and the project manager, inspector, superintendent and other pertinent parties prior to the initiation of construction.
- Prune the trees (if needed) to achieve the minimum necessary clearance for construction activities (following stake out of final building locations). All pruning should be performed by or under the direct field supervision of an ISA Certified Arborist or Tree Worker prior to construction.
- Prior to any construction activity on site, install tree protection fencing as indicated on construction plans. Utilize chain link fence with posts or anchor blocks staked into the ground. These fences should not be removed or moved until construction is complete. Avoid all soil or above ground disturbances within the fenced areas.



## **Tree Preservation Specifications (continued)**

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### *Construction Phase:*

- Contact the Consulting Arborist for counsel if there are field changes from construction plans within TPZ/MTPZ's.
- Avoid grading, compaction, trenching, rototilling, vehicle traffic, parking, material storage, spoil, waste or washout or any other disturbance within TPZ's/MTPZ's unless shown on plans.
- Any work that is to occur within the TPZ's/MTPZ's of the trees should be monitored by the Consulting Arborist.
- Prior to trenching or grading within TPZ's/MTPZ's carefully excavate, expose and mark roots greater than or equal to 2 inches diameter and preserve them if possible or cut them cleanly with a sharp saw or reciprocating saw under Arborist supervision unless approval to skip this step is given by the Consulting Arborist.
- If roots greater than or equal to 2 inches or limbs larger than 3 inches in diameter are cut or damaged during construction, contact the Consulting Arborist immediately to inspect and recommend appropriate remedial treatments.
- Irrigate trees, inspect and repair/adjust irrigation system and maintain woodchip mulch as described above.

### *Post Construction/On Going:*

- Irrigate trees, inspect and repair/adjust irrigation system and maintain woodchip mulch as described above.
- Engage the Consulting Arborist to assess the condition of and recommend necessary treatments for the trees every spring, summer and fall. Follow Consulting Arborist's recommendations.
- Contact the Consulting Arborist if 1) the trees appear unhealthy; 2) large limbs break or other structural deficiencies are observed and/or 3) construction or other soil disturbance is necessary within the TPZ's.

## Glossary<sup>4</sup>

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*Bow* – the gradual curve of a branch or stem.

*Callus* – growth resulting from and found at the margin of wounds.

*Canker* – a localized area of dead tissue on a stem or branch, caused by fungal or bacterial organisms.

*Central Leader* – the main stem of the tree.

*Chlorotic* – yellow.

*Codominant* – equal in size and relative importance.

*Crown* – parts of the tree above the trunk.

*Crown Clean* – the removal of dead, dying, diseased, broken, and weakly attached branches and watersprouts from a tree's crown.

*Decay* – process of degradation of woody tissues by fungi and bacteria.

*Dieback* – death of shoots and branches, generally from tip to base.

*Dropcrotch* – the process of shortening trunks or limbs by pruning back to dominant lateral limbs.

*End Weight* – the concentration of foliage at the distal ends of branches.

*Epicormic* – shoots which result from adventitious or latent buds; often indicates poor vigor.

*Included bark* – pattern of development at branch junctions where bark is turned inward rather than pushed out.

*Primary limb* – limb attached directly to the trunk.

*Reduction cut* – shortening the length of a branch or stem by cutting it back to a lateral branch of at least one-third the diameter of the cut stem.

*Root crown* – area at the base of a tree where the roots and stem merge.

*Secondary limb* – limb attached directly to a primary limb.

*Sound wood* – undecayed wood.

*Suppressed* – trees which have been overtopped and whose crown development is restricted from above.

*Target* – people or property potentially affected by tree failure.

*Topped* – Pruned to reduce height by cutting large branches back to stubs.

*Train* – to prune a young tree to establish a strong structure.

*Vigor* – overall health.

*Watersprouts* – vigorous, upright, epicormic shoots that grow from latent buds in older wood.

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<sup>4</sup> Definitions from author or Matheny and Clark, Evaluation of Hazard Trees in Urban Areas, 2<sup>nd</sup> Edition c 1994, ISA.

## **Arborist Disclosure Statement**

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The following statement pertains to my work and this report.

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

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

Treatment, pruning and removal of trees may involve considerations beyond the scope of the Arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the Arborist. An Arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

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

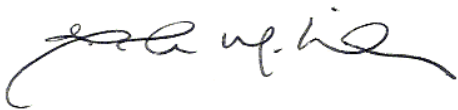


## **Certification of Performance**

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I certify the following is true.

- I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and/or appraisal is stated in the attached report and the Terms and Conditions.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved.
- The analysis, opinions and conclusions stated herein are my own, and are based on current scientific procedures and facts.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, nor upon the results of the assessment, the attainment of stipulated results or the occurrence of any subsequent event.
- My analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted Arboricultural practices.
- No one provided significant professional assistance to the consultant, except as indicated within the report.



John M. Lichter, M.S.  
ASCA Registered Consulting Arborist #375  
ISA Certified Arborist #863  
ISA Qualified Tree Risk Assessor  
ASCA Qualified Tree and Plant Appraiser



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**ASSUMPTIONS AND LIMITING CONDITIONS: TREE ASSOCIATES, INC.**

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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 governmental 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. Unless required by law otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.
6. Unless required by law otherwise, neither all nor any part of the contents of this report, nor 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 institute or to any initialed designation conferred upon the consultant/appraiser as stated in his qualifications.
7. This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/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.
8. Sketches, drawings, 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 unless expressed otherwise. The reproduction of any information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by John M. Lichter or TREE ASSOCIATES as to the sufficiency or accuracy of said information.
9. Unless expressed otherwise: 1) information contained 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 the future.
10. Loss or alteration of any part of this report invalidates the entire report.



Exhibit 1.

Tree Evaluation Data  
2130 Douglas Blvd., Roseville

To Accompany  
Tree Associates Report  
March 3, 2021

Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
215	interior live oak ( <i>Quercus wislizenii</i> )	9,5,6,3, 4@2'	13	18	multiple trunks from base with included bark; likelihood of failure will increase with time and is essentially uncorrectable; poor candidate for preservation	fair-good	poor-fair	remove tree.
216	interior live oak ( <i>Quercus wislizenii</i> )	8,6,5,7	19	17	multiple trunks from base with included bark	fair-good	poor-fair	select leader, drop crotch competing trunks or primary limbs over several pruning cycles.
217	interior live oak ( <i>Quercus wislizenii</i> )	6	12	6	low vigor; codominant trunks	fair	fair	select leader, drop crotch competing trunks or primary limbs.
218	coast live oak ( <i>Quercus agrifolia</i> )	11	17	11	codominant trunks	good	fair-good	select leader, drop crotch competing trunks or primary limbs.
219	coast live oak ( <i>Quercus agrifolia</i> )	5,4	16	7	extreme bow; 4' from 218; 5' from 220	fair-good	poor-fair	preserve trees 219-222 as a group (include 217 and 223 if possible). maintain canopy size through regular crown reduction.
220	coast live oak ( <i>Quercus agrifolia</i> )	6	13	6	3' from 218; 4' from 219; codominant trunks; unbalanced crown	fair-good	fair	select leader, drop crotch competing trunks or primary limbs.
221	coast live oak ( <i>Quercus agrifolia</i> )	4,3	13	6	codominant trunks; choked out by adjacent trees; 5' from 220; 2.5' from 222; unbalanced crown	fair	poor-fair	consider removal to benefit adjacent trees.

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222	coast live oak ( <i>Quercus agrifolia</i> )	6,4	15	8	codominant trunks; limb attachments with included bark	fair-good	fair	shorten large primary limb attached near base. select leader, drop crotch competing trunks or primary limbs.
223	coast live oak ( <i>Quercus agrifolia</i> )	10,6	18	13	codominant trunks	good	fair	select leader, drop crotch competing trunks or primary limbs.
224	London plane ( <i>Platanus X acerifolia</i> )	17	26	17	ivy covered trunk; obscured lower trunk; codominant trunks	fair-good	fair	remove ivy and inspect low trunk.
225	sweet gum ( <i>Liquidambar styraciflua</i> )	10	10	10	root dieback; low vigor	fair	fair	
226	sweet gum ( <i>Liquidambar styraciflua</i> )	18	27	18	trunk covered with ivy; codominant trunks; overextended primary limbs; limb dieback; flush cut primary limb	fair-good	fair	remove ivy and inspect lower trunk. use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment. crown clean.
227	sweet gum ( <i>Liquidambar styraciflua</i> )	18	27	18	root wounds near trunk; large primary limb failures and significant wood missing on trunk; probable trunk failure within 10 years	fair-good	poor	remove tree.
228	London plane ( <i>Platanus X acerifolia</i> )	15	30	15	limb breaks; anthracnose; codominant trunks; overextended primary limbs	fair-good	fair	select leader, drop crotch competing trunks or primary limbs. use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment.

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Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
229	London plane ( <i>Platanus X acerifolia</i> )	21	38	21	codominant trunks; limb breaks; anthracnose; broken, hanging limbs; overextended primary limbs	fair-good	fair	select leader, drop crotch competing trunks or primary limbs. use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment. crown clean.
230	London plane ( <i>Platanus X acerifolia</i> )	12	27	12	codominant trunks; unbalanced crown; located off site?	fair-good	good	
231	London plane ( <i>Platanus X acerifolia</i> )	23	26	23	codominant trunks; overextended primary limbs	fair-good	fair-good	use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment.
232	coast redwood ( <i>Sequoia sempervirens</i> )	34	14	34	codominant trunks with included bark; light green foliage; redwood canker symptoms	fair	fair	crown clean. remove smaller codominant trunk. irrigate TPZ as indicated in report recommendations.
233	coast redwood ( <i>Sequoia sempervirens</i> )	29	15	29	broken, hanging limbs; low vigor; light green foliage; redwood canker symptoms	fair	fair	crown clean. irrigate TPZ as indicated in report recommendations.
234	London plane ( <i>Platanus X acerifolia</i> )	20	20	20	codominant trunks; slightly low vigor	fair	fair-good	
235	London plane ( <i>Platanus X acerifolia</i> )	24	22	24	codominant trunks	fair-good	fair-good	

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Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
236	London plane ( <i>Platanus X acerifolia</i> )	23	27	23	codominant trunks	fair-good	fair	
237	coast redwood ( <i>Sequoia sempervirens</i> )	36	19	36	trunk obscured by ivy	fair-good	good	remove ivy and inspect trunk base.
238	coast redwood ( <i>Sequoia sempervirens</i> )	23	14	23	foliage slightly light green	fair-good	good	irrigate TPZ as indicated in report recommendations.
239	coast redwood ( <i>Sequoia sempervirens</i> )	22	12	22	foliage slightly light green	fair	good	irrigate TPZ as indicated in report recommendations.
240	coast redwood ( <i>Sequoia sempervirens</i> )	28	17	28	light green foliage; drought stress symptoms	fair	good	irrigate TPZ as indicated in report recommendations.
241	sweet gum ( <i>Liquidambar styraciflua</i> )	19	24	19	limb attachments with included bark; overextended primary limbs	fair-good	fair	use reduction cuts to remove 50% of the foliage/buds of the lowest primary limb. use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment.
242	sweet gum ( <i>Liquidambar styraciflua</i> )	18	28	18	open canopy due to past pruning	fair-good	fair	perform crown reduction using reduction cuts to 4" diameter to remove 25% of the foliage/buds.

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Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
243	sweet gum ( <i>Liquidambar styraciflua</i> )	16	30	16	overextended primary limbs; codominant trunks with included bark; limb breaks	fair-good	fair	perform aerial inspection. use reduction cuts to remove 25% of the foliage of primary limbs > 1/3 the trunk diameter at their attachment. conduct
A	tulip tree ( <i>Liriodendron tulipifera</i> )	15	16	15	trunk on property line; root wounds and decay south side trunk; may be likely to fail; leader drop-crotched with small cut; low vigor	fair	poor-fair	perform root crown examination. consider removal.
B	tulip tree ( <i>Liriodendron tulipifera</i> )	11	12	11	trunk on property line; root wounds and dieback, decay; low vigor	poor-fair	poor-fair	perform root crown examination. consider removal.
C	tulip tree ( <i>Liriodendron tulipifera</i> )	16	15	16	trunk on property line; leader died; trunkshortened to 12'; root wounds and dieback, decay; low vigor; sunburned trunk	fair	poor	remove tree.
D	tulip tree ( <i>Liriodendron tulipifera</i> )	13	13	13	trunk on property line; root wounds, dieback and decay; codominant trunks; low vigor	fair	fair	perform root crown examination. irrigate TPZ as indicated in report recommendations.
E	tulip tree ( <i>Liriodendron tulipifera</i> )	12	9	12	trunk on property line; leader died; sunburned trunk; very low vigor	poor	poor	remove tree.
F	tulip tree ( <i>Liriodendron tulipifera</i> )	11	13	11	trunk on property line; low vigor; limb dieback	fair	fair	irrigate TPZ as indicated in report recommendations.
G	tulip tree ( <i>Liriodendron tulipifera</i> )	14	13	14	trunk on property line; multiple trunks; leader died; limb dieback; low vigor	fair	poor-fair	irrigate TPZ as indicated in report recommendations.

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H	tulip tree ( <i>Liriodendron tulipifera</i> )	11	14	11	trunk on property line; root dieback and decay; limb dieback; low vigor	poor-fair	poor-fair	perform root crown examination. irrigate TPZ as indicated in report recommendations.
I	tulip tree ( <i>Liriodendron tulipifera</i> )	12	13	12	trunk on property line; top died; root dieback; extensive decay; low vigor	poor	poor	remove tree.
J	tulip tree ( <i>Liriodendron tulipifera</i> )	9	12	9	trunk on property; top died; cut to half original height; multiple trunks; poor form	poor-fair	poor	remove tree.
K	coast redwood ( <i>Sequoia sempervirens</i> )	24	12	24	trunk off property; broken, hanging limbs; codominant trunks with included bark	good	fair	brace trunks. crown clean.
L	coast redwood ( <i>Sequoia sempervirens</i> )	15	9	15	trunk off property; low vigor; light green foliage	fair	good	irrigate TPZ as indicated in report recommendations.
M	coast redwood ( <i>Sequoia sempervirens</i> )	20	11	20	trunk off property; low vigor; light green foliage	fair	good	irrigate TPZ as indicated in report recommendations.
N	coast redwood ( <i>Sequoia sempervirens</i> )	22	9	22	trunk off property; low vigor; light green foliage; top third dying	poor	poor-fair	consider removal. irrigate TPZ as indicated in report recommendations.
O	coast redwood ( <i>Sequoia sempervirens</i> )	26	12	26	trunk off property; top third of tree dead; low vigor; light green foliage	poor	poor	remove tree.

Exhibit 1.

Tree Evaluation Data  
2130 Douglas Blvd., Roseville

To Accompany  
Tree Associates Report  
March 3, 2021

Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
P	coast redwood ( <i>Sequoia sempervirens</i> )	27	13	27	trunk on property line; top broke out; multiple stems result; redwood canker symptoms	poor-fair	poor-fair	consider removal. crown clean. select leader, drop crotch or remove competing trunks or primary limbs.
Q	coast redwood ( <i>Sequoia sempervirens</i> )	31	14	31	trunk off property; top 1/2 of tree dead	poor-fair	poor	remove tree.
R	London plane ( <i>Platanus X acerifolia</i> )	11	16	11	trunk on property line; low vigor; limb dieback; codominant trunks; root wounds and decay	poor-fair	poor-fair	perform root crown examination.

**Exhibit 2.**

**Tree Impact Assessment  
2130 Douglas Boulevard, Roseville**

**To Accompany  
Tree Associates Report  
March 3, 2021**

<b>Tree #</b>	<b>Max DLR</b>	<b>TPZ (ft.)</b>	<b>Description of Pre Demolition Infrastructure/ Proposed Construction within TPZ</b>	<b>Impact Rating</b>	<b>Possible Design Modifications/Construction Methods</b>
215	13	18	under parking	to be removed	
216	19	17	under parking	to be removed	
217	12	6	under parking	to be removed	
218	17	11	tree within grading limits	Severe	Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
219	16	7	tree within grading limits	Severe	Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
220	13	6	tree within grading limits	Severe	Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
221	13	6	tree within grading limits	Severe	Consider removal to benefit adjacent trees or Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
222	15	8	tree within grading limits	Severe	Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
223	18	13	under parking	to be removed	
224	26	17	under parking/drive	to be removed	
225	10	10	under parking/drive	to be removed	
226	27	18	trunk location not on grading or utility plan; remove curb 18' ENE; curb and grading 7' N, 12' NE	High	indicate trunk location on plans
227	27	18		Low	I recommend tree be removed due to its poor condition.
228	30	15	grading and parking 6' N; 15' W	Severe	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ.

Exhibit 2.

Tree Impact Assessment  
2130 Douglas Boulevard, Roseville

To Accompany  
Tree Associates Report  
March 3, 2021

Tree #	Max DLR	TPZ (ft.)	Description of Pre Demolition Infrastructure/ Proposed Construction within TPZ	Impact Rating	Possible Design Modifications/Construction Methods
229	38	21	grading and bioswale 4' N; storm drain line 8' N	Severe	Move bioswale and storm drain line outside of TPZ. Avoid clearing and grubbing in TPZ.
230	27	12	curb, asphalt and lawn removal and grading 10' N; grading 13' ESE	Low/Moderate	Remove curb, asphalt and lawn under arborist supervision. Avoid clearing and grubbing in TPZ.
231	26	23		Low	
232	14	34	grading and basin (?) 4' southwest; grading and curb 8' S	Severe	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
233	15	29	grading, curb and parking 8' S	Severe	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
234	20	20		Low	
235	22	24		Low	
236	27	23		Low	
237	19	36	grading, curb and parking 21' S	Low/Moderate	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
238	14	23	grading, curb and parking 6' S	Severe	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
239	12	22	grading, curb and parking 4' S	Severe	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
240	17	28	under parking lot	to be removed	
241	24	19	grading, curb and parking 4' S	Severe	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.
242	28	18		Low	
243	30	16	remove curb 14' ESE; grading, curb and parking 9' SW, 14' S, 13' SE	Moderate	Move curb, parking and grade limits further from tree. Avoid clearing and grubbing in TPZ.

Exhibit 2.

Tree Impact Assessment  
2130 Douglas Boulevard, Roseville

To Accompany  
Tree Associates Report  
March 3, 2021

Tree #	Max DLR	TPZ (ft.)	Description of Pre Demolition Infrastructure/ Proposed Construction within TPZ	Impact Rating	Possible Design Modifications/Construction Methods
A	16	15	trunk on property line; remove curb 10' N; grading 1' WNW; clear and grub within TPZ; curb and drive 5' WNW; light pole 9' SW - no electrical line shown	Severe	Tree is not a good candidate for preservation due to its condition, but may be co-owned. Either move grade limits, curb and drive further from tree or remove tree. Don't clear and grub within TPZ. Remove curb under Arborist supervision.
B	12	11	trunk on property line; grading 6' W, 5' S; clear and grub within TPZ;	High	Tree is not a good candidate for preservation due to its condition, but may be co-owned. Either move grade limits further from tree or remove tree. Don't clear and grub within TPZ.
C	15	16	trunk on property line; grading at trunk base; curb 5' WNW	Severe	I recommend tree be removed due to its poor condition.
D	13	13	trunk on property line; grading 3' WNW	Severe	Either move grade limits further from tree or remove tree. Avoid clearing and grubbing within TPZ.
E	9	12	trunk on property; grading 9' W	Low	I recommend tree be removed due to its poor condition.
F	13	11	trunk on property line; grading 7' WSW	Low/Moderate	Avoid clearing and grubbing within TPZ.
G	13	14	trunk on property line; grading 6' WSW; curb/parking 12' WSW	Moderate/High	Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
H	14	11	trunk on property line; grading limits unclear - 9' W, 8' SW?	Low/Moderate	Impact rating dependent upon actual grade limits. Move grade limits further from tree. Avoid clearing and grubbing in TPZ.
I	13	12	trunk on property line; grading limits unclear - 3' WSW, 6' S?; curb/parking 14' WSW	Severe	I recommend tree be removed due to its poor condition.
J	12	9	trunk on property; tree within grading limits	Severe	I recommend tree be removed due to its poor condition.

Exhibit 2.

Tree Impact Assessment  
2130 Douglas Boulevard, Roseville

To Accompany  
Tree Associates Report  
March 3, 2021

Tree #	Max DLR	TPZ (ft.)	Description of Pre Demolition Infrastructure/ Proposed Construction within TPZ	Impact Rating	Possible Design Modifications/Construction Methods
K	12	24	trunk off property; curb, asphalt and lawn removal 13' SE and 15' E; curb, parking installation 18' E; grading limits unclear	Low/Moderate	Remove curb, asphalt and lawn under arborist supervision. Avoid clearing and grubbing in TPZ.
L	9	15	trunk off property; install curb, parking 12' SE	Low/Moderate	Avoid clearing and grubbing within TPZ.
M	11	20	trunk off property; install curb, parking 10' E, 10' SE	Moderate	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ.
N	9	22	trunk off property; install curb, parking 7' E	Severe	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ.
O	12	26	trunk off property; install curb, parking 8' E	Severe	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ. Note: I recommend tree be removed due to its poor condition.
P	13	27	trunk on property line; trunk within proposed parking	Severe	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ.
Q	14	31	trunk off property; install curb, parking 6' E	Severe	Remove parking spaces and move grade limits further from tree. Avoid clearing and grubbing in TPZ. Note: I recommend tree be removed due to its poor condition.
R	16	11	tree on property line; shuttle stop to be installed at base of trunk	Severe	Move shuttle stop and move grade limits further from tree. Avoid clearing and grubbing in TPZ.



June 4, 2021

Belinda Young  
Principal, Senior Project Manager  
HOK  
One Bush Street, Suite 200  
San Francisco, CA 94104

RE: Arborist Letter, Interior Live Oak Trees #215-217, 2130 Douglas Boulevard, Roseville

Belinda,

The following is a summary of evaluation, impact assessment and recommendations concerning three interior live oak trees (#215-217). Please do not hesitate to contact me should you have any questions.

Sincerely,

John M. Lichter, M.S.  
Owner, Principal Consulting Arborist, Tree Associates, Inc.  
ASCA Registered Consulting Arborist #375  
ISA Certified Arborist #863  
ISA Qualified Tree Risk Assessor  
ASCA Qualified Tree and Plant Appraiser



## **INTRODUCTION, HISTORY**

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I previously prepared an Arborist Report (dated March 3, 2021) including a tree evaluation, impact assessment and preservation guidelines for the Kaiser Project located at 2130 Douglas Boulevard in Roseville. In this report, I included all trees with trunks on the property or on the property line as well as trees with trunks off the property which were close enough to the project site to potentially be impacted from the project.<sup>1</sup>

My March 2021 report summarized findings from my on-site evaluation (between February 15<sup>th</sup> and February 19<sup>th</sup> of this year) and review of construction drawings, dated January 8, 2021. I provided a rating of the severity of potential impacts of the proposed development as well as possible design modifications and construction methods to reduce impacts to the trees. I also provided tree preservation specifications.

The City of Roseville has requested that I prepare a report summarizing my findings and recommendations concerning the ordinance-protected interior live oaks (*Quercus wislizenii*) numbered 215-217 located in the southeast portion of the project site. *Please refer to my previous report for additional information concerning these and other trees on the project site.*

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<sup>1</sup> Note that the City of Roseville's code indicates that protected trees are native oaks with trunk diameters equal to or exceeding 6 inches.



## Limits of the Assignment

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- Tree conditions change over time and, as they change, this report may need to be revised.
- It was assumed that no significant tree root injury occurred as the result of past demolition or any other activity.
- The tree impact assessment was based on my review of topographic, grading, utility and planting plans dated May 20, 2021.
- Impact ratings assumed that 1) my description of construction was accurate; 2) my understanding of typical construction practices was accurate; 3) the extent of excavation was less than or equal to 5 feet off buildings and 1 foot off roadways, parking and walkways; 4) utility trenches were not laid back; 5) all preservation specifications would be followed, *including no soil disturbance within tree protection zones (TPZ's) or modified tree protection zones (MTPZ's).*<sup>2</sup>
- If construction plans are revised, the impact assessment should be updated. If there are changes to the location of infrastructure or there is additional planned infrastructure/construction activity within the TPZ or MTPZ, the impact ratings and recommendations for retained trees may need to be adjusted.

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<sup>2</sup> A modified tree protection zone (MTPZ) is defined herein as the area remaining within a tree's tree protection zone excepting the area covered by infrastructure including over-excavation zones.



## **Tree Evaluation**

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Exhibit 1 summarizes the results of my tree evaluation of February 15<sup>th</sup> and 19<sup>th</sup>, 2021. For each of the trees, the following data is provided.

- Tree # – corresponds to a unique tree number indicated on a tag affixed to each tree. Note that lettered trees were not tagged.
- Species – common and scientific name of the tree.
- Trunk Dia. – the diameter of the tree (in inches) at 4.5' above grade, unless measurement at another location between 1 and 5 feet above grade provided a more accurate reflection of the size of the tree.
- TPZ (Tree Protection Zone) – the radius in feet of a circular tree protection zone (centered at the trunk) recommended by the author.
- Comments – comments regarding tree and landscape features that influenced health, structure and condition ratings.
- Health Rating – rating between poor and good considering the overall health of the tree. A rating of fair-good or good indicates no significant health concerns.
- Structural Rating– rating between poor and good considering the overall structure of the tree. A rating of fair-good or good indicates no significant structural concerns.
- Recommendations – recommendations for tree work or treatments to improve tree structure or health or for further assessment, where necessary. Note: recommendations are indicated in red where removal was recommended.

## **Tree Condition and Recommendation Summary**

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Interior live oak tree #215 had trunks with diameters equal to 9,5,6,3 and 4 inches. While the health of tree #215 was fair/good, I rated its structure as poor/fair. The multiple trunks originated from near ground level and bark was included (embedded) between them. There is no feasible means to improve this tree's structure and the likelihood of one or more of its trunks falling will increase with time. For these reasons, *I recommend that tree 215 be removed.*

Interior live oak tree #216 had trunk diameters of 8,6,5 and 7 inches. As with tree #215, this tree had no significant health concerns. While its structure was poor/fair because it had multiple trunks with included bark, the structure of this tree could be improved by shortening (and subordinating) all but one trunk over several pruning cycles.

### **Tree Associates, Inc.**

1729 Mariposa Circle, Davis, CA 95618  
530.220.3696 [www.treeassociates.net](http://www.treeassociates.net)



Tree #217 was a six-inch diameter interior live oak with fair health and fair structure. It had codominant trunks and low vigor. Irrigating this tree (infrequently) and training (pruning) it should improve its condition.



*Figure 1. Looking southeastward at interior live oak trees 215 and 216 (labeled).*





*Figure 2. Looking southeast at interior live oak trees 216 (left) and 217 (obscured and behind 216).*



## Tree Impact Assessment

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I reviewed the project's topographic, grading, utility and planting plans dated May 20, 2021. The following data were provided for the subject trees and the results may be found in Exhibit 2, entitled Tree Impact Assessment, Kaiser Parking Lot Project 2130 Douglas Blvd., Roseville.

- Tree Number – corresponds to a round aluminum tag affixed to each tree. Lettered trees do not have tags.
- TPZ (Tree Protection Zone) – the radius in feet of a circular tree protection zone (centered at the trunk) recommended by the author; typically, one foot per inch trunk diameter.
- Description of Proposed Construction within TPZ – a description of proposed construction and its distance from the trunk within the TPZ.
- Impact Rating – a rating low, moderate, high or severe considering the possible impact to tree condition from construction of the proposed plan. Impact ratings assumed that 1) my description of construction was accurate; 2) my understanding of typical construction practices was accurate; 3) the extent of excavation was less than or equal to 5 feet off buildings and 1 foot off roadways, parking and walkways; 4) utility trenches were not laid back; 5) all preservation specifications would be followed, *including no soil disturbance within tree protection zones (TPZ's) or modified tree protection zones (MTPZ's)*. If these assumptions are incorrect, the impact ratings and recommendations may need to be updated.



## **Summary of Tree Impacts**

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I recommend that tree #215 be removed due to its poor and uncorrectable structure as discussed above.

The proposed grading and infrastructure are located 5 feet west southwest and 8 feet north northwest of the trunk of tree #216. Considering the proximity of the proposed grading to the trunk of this tree which has a protection zone of 17 feet, I rated the impact of the proposed construction as severe. *For this reason, I recommend this tree be removed.*

The proposed grading and infrastructure are located 6 feet west southwest of the trunk of tree #217. This tree has a protection zone of 6 feet so there will be no encroachment into this tree's protection zone. Considering this, I rated the impact of the proposed construction as low/moderate for this tree.



## Tree Preservation Specifications

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The specifications presented below should be followed for all trees to be preserved.

### *Design:*

- Upon review of this report, modify the design to accommodate my suggested design changes or other suitable modifications where possible and appropriate. A meeting or video conference call to discuss these issues is encouraged.
- Indicate tree location, numbers and tree protection zones on all civil construction plans. Where grading or infrastructure limits encroach into the TPZ's indicate modified Tree Protection Zones (MTPZ's). The TPZ/MTPZ's should be indicated on the plans as the location of tree protection fencing.
- Engage the Consulting Arborist to revise the development impact assessment as soon as civil construction plans are developed/ revised.

### *Pre-Construction:*

- Install a temporary irrigation system capable of uniformly watering the soil within the protection zones of all trees except those to be removed.
- Irrigate the trees long enough to wet the soil to a depth of at least 24 inches once every two weeks during the non-Winter months (in the absence of rain). A tile probe may be used to determine the depth of moist soil.
- Inspect the irrigation system every two weeks during the irrigation period and repair leaks and adjust as necessary to optimize system performance.
- Install and maintain four inches of coarse woodchip mulch (from tree service operations or other source) within the TPZ's of all trees. Avoid placing mulch within three feet of trunks.
- Conduct a meeting to discuss tree preservation specifications between the Consulting Arborist and the project manager, inspector, superintendent and other pertinent parties prior to the initiation of construction.
- Prune the trees (if needed) to achieve the minimum necessary clearance for construction activities (following stake out of final building locations). All pruning should be performed by or under the direct field supervision of an ISA Certified Arborist or Tree Worker prior to construction.
- Prior to any construction activity on site, install tree protection fencing as indicated on construction plans. Utilize chain link fence with posts or anchor blocks staked into the ground. These fences should not be removed or moved until construction is complete. Avoid all soil or above ground disturbances within the fenced areas.



## **Tree Preservation Specifications (continued)**

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### *Construction Phase:*

- Contact the Consulting Arborist for counsel if there are field changes from construction plans within TPZ/MTPZ's.
- Avoid grading, compaction, trenching, rototilling, vehicle traffic, parking, material storage, spoil, waste or washout or any other disturbance within TPZ's/MTPZ's unless shown on plans.
- Any work that is to occur within the TPZ's/MTPZ's of the trees should be monitored by the Consulting Arborist.
- Prior to trenching or grading within TPZ's/MTPZ's carefully excavate, expose and mark roots greater than or equal to 2 inches diameter and preserve them if possible or cut them cleanly with a sharp saw or reciprocating saw under Arborist supervision unless approval to skip this step is given by the Consulting Arborist.
- If roots greater than or equal to 2 inches or limbs larger than 3 inches in diameter are cut or damaged during construction, contact the Consulting Arborist immediately to inspect and recommend appropriate remedial treatments.
- Irrigate trees, inspect and repair/adjust irrigation system and maintain woodchip mulch as described above.

### *Post Construction/On Going:*

- Irrigate trees, inspect and repair/adjust irrigation system and maintain woodchip mulch as described above.
- Engage the Consulting Arborist to assess the condition of and recommend necessary treatments for the trees every spring, summer and fall. Follow Consulting Arborist's recommendations.
- Contact the Consulting Arborist if 1) the trees appear unhealthy; 2) large limbs break or other structural deficiencies are observed and/or 3) construction or other soil disturbance is necessary within the TPZ's.



## **Glossary<sup>3</sup>**

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*Bow* – the gradual curve of a branch or stem.

*Callus* – growth resulting from and found at the margin of wounds.

*Canker* – a localized area of dead tissue on a stem or branch, caused by fungal or bacterial organisms.

*Central Leader* – the main stem of the tree.

*Chlorotic* – yellow.

*Codominant* – equal in size and relative importance.

*Crown* – parts of the tree above the trunk.

*Crown Clean* – the removal of dead, dying, diseased, broken, and weakly attached branches and watersprouts from a tree's crown.

*Decay* – process of degradation of woody tissues by fungi and bacteria.

*Dieback* – death of shoots and branches, generally from tip to base.

*Dropcrotch* – the process of shortening trunks or limbs by pruning back to dominant lateral limbs.

*End Weight* – the concentration of foliage at the distal ends of branches.

*Epicormic* – shoots which result from adventitious or latent buds; often indicates poor vigor.

*Included bark* – pattern of development at branch junctions where bark is turned inward rather than pushed out.

*Primary limb* – limb attached directly to the trunk.

*Reduction cut* – shortening the length of a branch or stem by cutting it back to a lateral branch of at least one-third the diameter of the cut stem.

*Root crown* – area at the base of a tree where the roots and stem merge.

*Secondary limb* – limb attached directly to a primary limb.

*Sound wood* – undecayed wood.

*Suppressed* – overtopped trees whose crown development is restricted.

*Target* – people or property potentially affected by tree failure.

*Topped* – Pruned to reduce height by cutting large branches back to stubs.

*Train* – to prune a young tree to establish a strong structure.

*Vigor* – overall health.

*Watersprouts* – vigorous, upright, epicormic shoots that grow from latent buds in older wood.

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3 Definitions from author or Matheny and Clark, Evaluation of Hazard Trees in Urban Areas, 2<sup>nd</sup> Edition c 1994, ISA.



## **Arborist Disclosure Statement**

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The following statement pertains to my work and this report.

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

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

Treatment, pruning and removal of trees may involve considerations beyond the scope of the Arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the Arborist. An Arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

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

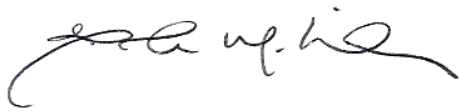


### **Certification of Performance**

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I certify the following is true.

- I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and/or appraisal is stated in the attached report and the Terms and Conditions.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report, and I have no personal interest or bias with respect to the parties involved.
- The analysis, opinions and conclusions stated herein are my own, and are based on current scientific procedures and facts.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, nor upon the results of the assessment, the attainment of stipulated results or the occurrence of any subsequent event.
- My analysis, opinions, and conclusions were developed, and this report has been prepared according to commonly accepted Arboricultural practices.
- No one provided significant professional assistance to the consultant, except as indicated within the report.



John M. Lichter, M.S.  
ASCA Registered Consulting Arborist #375  
ISA Certified Arborist #863  
ISA Qualified Tree Risk Assessor  
ASCA Qualified Tree and Plant Appraiser



**ASSUMPTIONS AND LIMITING CONDITIONS: TREE ASSOCIATES, INC.**

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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 governmental 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. Unless required by law otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written or verbal consent of the consultant/appraiser.
6. Unless required by law otherwise, neither all nor any part of the contents of this report, nor 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 institute or to any initialed designation conferred upon the consultant/appraiser as stated in his qualifications.
7. This report and any values expressed herein represent the opinion of the consultant/appraiser, and the consultant's/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.
8. Sketches, drawings, 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 unless expressed otherwise. The reproduction of any information generated by architects, engineers, or other consultants on any sketches, drawings, or photographs is for the express purpose of coordination and ease of reference only. Inclusion of said information on any drawings or other documents does not constitute a representation by John M. Lichter or TREE ASSOCIATES as to the sufficiency or accuracy of said information.
9. Unless expressed otherwise: 1) information contained 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 the future.
10. Loss or alteration of any part of this report invalidates the entire report.



Exhibit 1.

Tree Evaluation  
Kaiser Parking Lot Project 2130 Douglas Blvd.

To Accompany  
6/3/21 Tree Associates Report

Tree #	Species	Dia. (in.)	Max DLR (ft.)	TPZ (ft.)	Comments	Health Rating	Structural Rating	Recommendations
215	interior live oak ( <i>Quercus wislizenii</i> )	9,5,6,3, 4@2'	13	18	multiple trunks from base with included bark; likelihood of failure will increase with time and is essentially uncorrectable; poor candidate for preservation	fair-good	poor-fair	remove tree.
216	interior live oak ( <i>Quercus wislizenii</i> )	8,6,5,7	19	17	multiple trunks from base with included bark	fair-good	poor-fair	select leader, drop crotch competing trunks or primary limbs over several pruning cycles.
217	interior live oak ( <i>Quercus wislizenii</i> )	6	12	6	low vigor; codominant trunks	fair	fair	select leader, drop crotch competing trunks or primary limbs.

Exhibit 2.

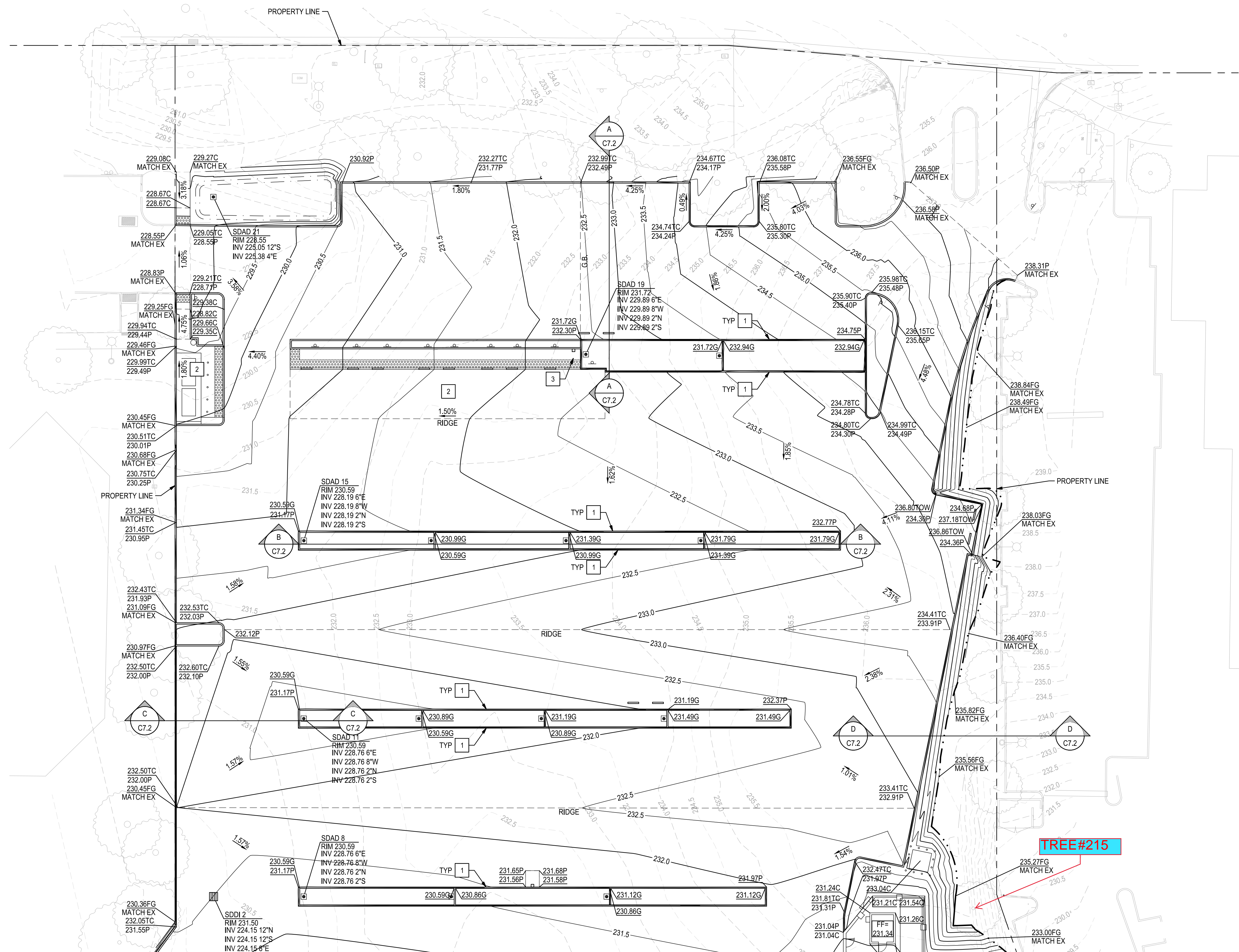
Tree Impact Assessment  
Kaiser Parking Lot Project 2130 Douglas Blvd., Roseville

To Accompany  
6/3/21 Tree Associates Report

Tree #	Max DLR	TPZ (ft.)	Description of Pre Demolition Infrastructure/ Proposed Construction within TPZ	Impact Rating
215	13	18	Grading/Parking/Drive 6' west and 6' south <i>(Note: I recommend removal of this tree due to its poor/fair structure which cannot be corrected)</i>	Severe
216	19	17	Grading/Parking/Drive 5' west southwest and 8' north northwest	Severe
217	12	6	Grading/Parking/Drive 6' west southwest	Low/ Moderate

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# DOUGLAS BLVD



**NOTES**

- PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL HAVE THE EXISTING DRY UTILITIES POT HOLED FOR VERIFICATION OF LOCATION AND DEPTH. AT SUCH TIME, POT HOLE DATA SHALL BE PROVIDED TO THE ENGINEER FOR DETERMINATION OF ADEQUATE CLEARANCE AND SEPARATION.

**GRADING LEGEND**

61.35TC	← TOP OF CURB GRADE
61.35P	← PAVEMENT GRADE
61.35TC	← TOP OF CURB GRADE
61.35C	← CONCRETE GRADE
61.35FF	← FINISHED FLOOR
61.35G	← GRADE
61.35C	← CONCRETE GRADE
61.35P	← PAVEMENT GRADE
61.35FL	← FLOW LINE GRADE
61.35TOW	← TOP OF WALL GRADE
61.35TOP	← MAX WSE GRADE
61.35BOT	← BOTTOM OF BIORETENTION BASIN GRADE
61.35PA	← PAVER ELEVATION
50.0	← EXISTING CONTOUR

**KEY NOTES**

1	ADD CURB CUTS 18" ON CENTER SEE DETAIL 9 ON SHEET C7.0
2	2% MAX SLOPE IN ANY DIRECTION
3	5'X5' LANDING AT 2% MAX



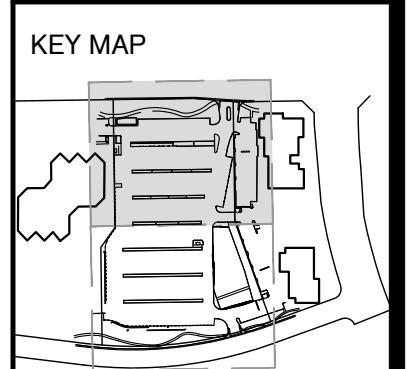
**SIEGFRIED**  
 900 Howe Ave, Suite 200  
 Sacramento, CA 95825  
 916-520-2777  
 www.siegfriedeng.com

- CIVIL
- STRUCTURAL
- LANDSCAPE ARCHITECTURE
- SURVEYING



**REVISIONS**

No.	Date	Description
-----	------	-------------



**PROJECT**  
**KAISER**  
**PERMANENTE**  
**ROSEVILLE**  
**TEMPORARY**  
**PARKING LOT**  
 2130 DOUGLAS BLVD.  
 ROSEVILLE, CA 95661

CWJ# TBD  
 BD# TBD  
 EN# TBD



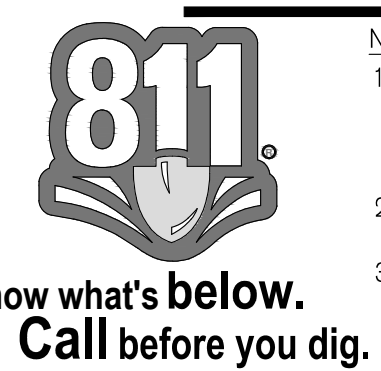
DATE SIGNED: 05/20/21

SHEET TITLE

**GRADING PLAN I**

Proj Mgr	PJS
Drawn by	RRG
Date	5/20/2021
Job No.	20110

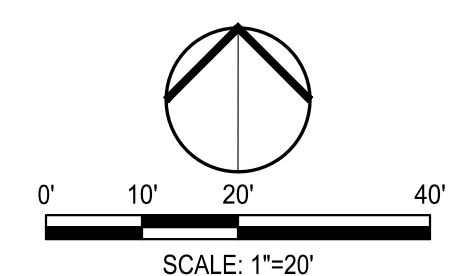
**SHEET:**  
**C4.1**  
 OF: 29



**NOTES:**

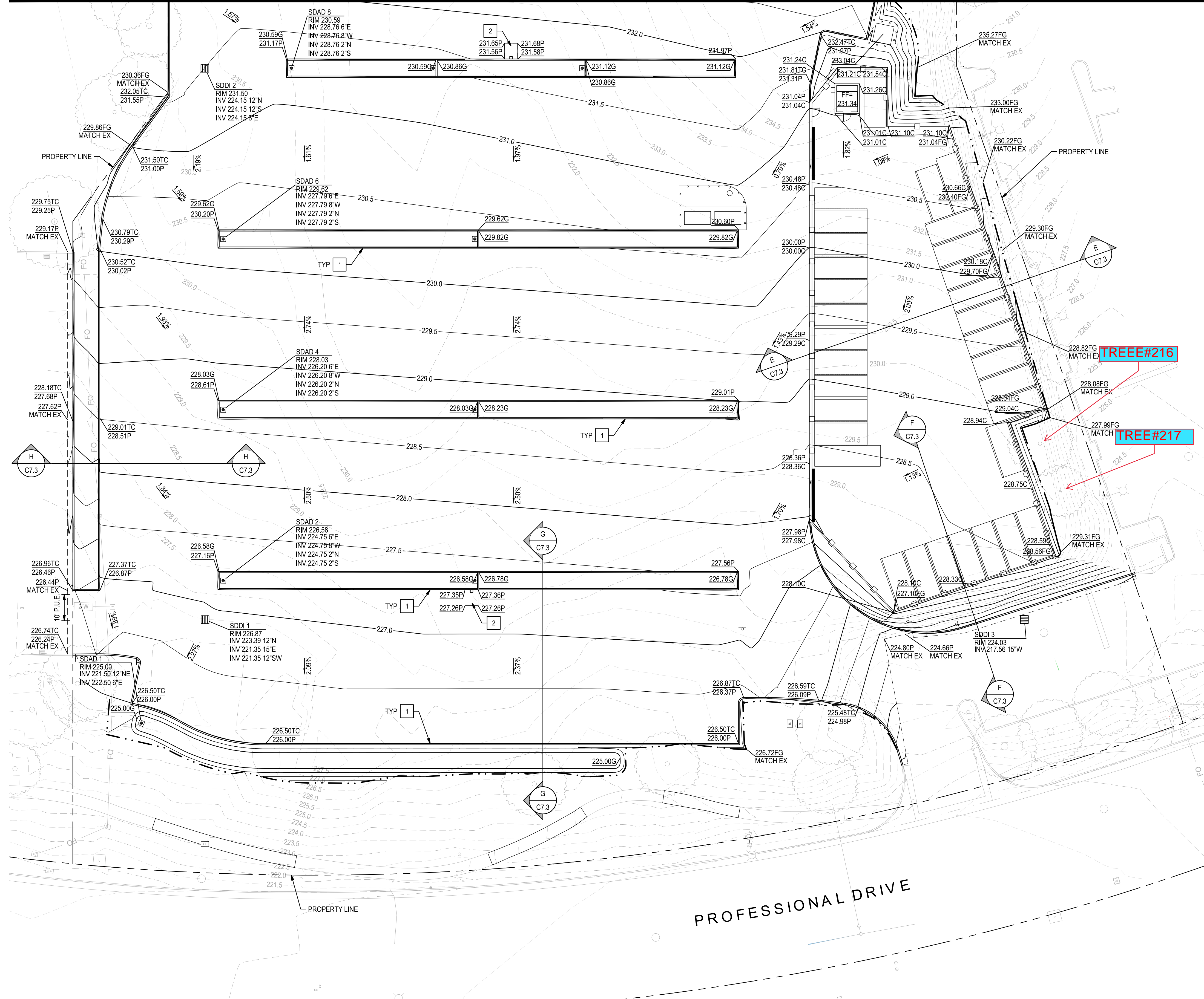
- ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT 'U.S.A. LOCATING SERVICES' LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
- ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

FOR CONTINUATION SEE SHEET C4.2



2021-05-18 100% BUILDING DEPARTMENT SUBMITTAL

FOR CONTINUATION SEE SHEET C4.1



**NOTES**

- PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL HAVE THE EXISTING DRY UTILITIES POT HOLED FOR VERIFICATION OF LOCATION AND DEPTH. AT SUCH TIME, POT HOLE DATA SHALL BE PROVIDED TO THE ENGINEER FOR DETERMINATION OF ADEQUATE CLEARANCE AND SEPARATION.

**GRADING LEGEND**

- 61.35TC ← TOP OF CURB GRADE
- 61.35P ← PAVEMENT GRADE
- 61.35TC ← TOP OF CURB GRADE
- 61.35C ← CONCRETE GRADE
- 61.35FF ← FINISHED FLOOR
- 61.35G ← GRADE
- 61.35C ← CONCRETE GRADE
- 61.35P ← PAVEMENT GRADE
- 61.35FL ← FLOW LINE GRADE
- 61.35TOW ← TOP OF WALL GRADE
- 61.35TOP ← MAX WSE GRADE
- 61.35BOT ← BOTTOM OF BIORETENTION BASIN GRADE
- 61.35PA ← PAVER ELEVATION
- 50.0 ← EXISTING CONTOUR

**KEY NOTES**

- ADD CURB CUTS 18" ON CENTER SEE DETAIL 9 ON SHEET C7.0
- 5'X5' LANDING AT 2% MAX



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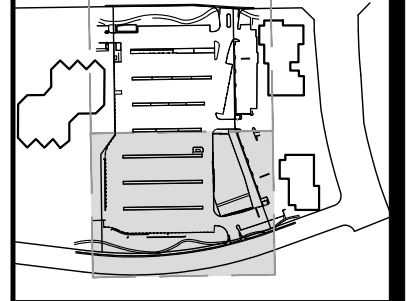
- CIVIL
- STRUCTURAL
- LANDSCAPE ARCHITECTURE
- SURVEYING



**REVISIONS**

No.	Date	Description

**KEY MAP**



**PROJECT KAISER PERMANENTE ROSEVILLE TEMPORARY PARKING LOT**  
 2130 DOUGLAS BLVD.  
 ROSEVILLE, CA 95661

CW# TBD  
 BD# TBD  
 EN# TBD



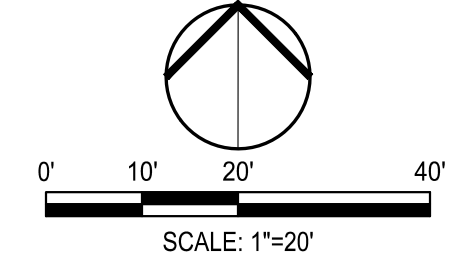
DATE SIGNED: 05/20/21

SHEET TITLE

GRADING PLAN II

Proj Mgr	PJS
Drawn by	RRG
Date	5/20/2021
Job No.	20110

**SHEET: C4.2**  
 OF: 29



**NOTES:**

- ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT 'U.S.A. LOCATING SERVICES' LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
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- ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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2021-05-18 10:00 BUILDING DEPARTMENT SUBMITTAL