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AN ASSESSMENT OF THE TREES ON PARK AVENUE BETWEEN MONTEREY AVENUE AND WESLEY STREET, CAPITOLA, AND RECOMMENDATIONS FOR TREE MAINTENANCE WORK TO ENHANCE PUBLIC SAFETY

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AN ASSESSMENT OF THE TREES ON PARK AVENUE BETWEEN MONTEREY AVENUE AND WESLEY STREET, CAPITOLA, AND RECOMMENDATIONS FOR TREE MAINTENANCE WORK TO ENHANCE PUBLIC SAFETY

SUMMARY:

On October 20, I completed an assessment of the conditions of 56 trees on the south side of Park Avenue, Between Monterey Avenue and Wesley Street. I utilized an ISA Basic Tree Risk Assessment Form to determine the levels of risk each of these trees represents to life and property located within their proximity. This risk assessment was based on a two-year period, from the time of my field assessment, which was completed on October 20, 2023. I prepared an arborist report in December of 2023.

At that time, I determined that the most significant targets in the event of whole tree failures or partial tree failures include Park Avenue and Wesley Street, the private residences and the Community Properties found within their falling radii and the adjacent Regional Transport Commission Property (Also referred to as the Rail Trail Property in this report). I determined that Park Avenue qualifies as being a frequent occupancy area and that the residential and community properties within the falling and/or failure radii of these trees qualify as being constant occupancy areas. I also determined that the adjacent Rail Trail Property qualifies as an occasional occupancy area at this time. I determined that the consequences of whole tree failures have the potential to be severe in the event that the adjacent street, and residential and community properties are struck at that time. I determined that the consequences of branch failures have the potential to be significant in the event that the adjacent street and the Rail Trail Property are struck at that time.

On February 12, 2024, I met with Kailash Mozumder and Ed Morrison of the City of Capitola, and with the prospective tree service companies to discuss the scope of the recommended work outlined in my original report. At that time, we also identified five additional trees on the adjacent Regional Transport Commission Property that required attention. This revised report includes a number of changes and additions to the content of the original report, which are summarized below (See the revised Tree Risk Assessment and Maintenance Matrix on Page 22 for more information). The trees that were identified for removal February 12th, were flagged with red tape and the trees identified for pruning work had yellow tape attached to their trunks.

> I determined that twelve of the trees on the City ROW represent a high risk concerning the increased likelihood of them failing and impacting significant targets within the next two years, and the extent of the potential consequences. Eleven of these high priority trees are recommended to be removed and the other tree requires pruning work at this time. These trees have been designated A-Priority rankings for recommended maintenance work.

> I determined that 25 of the trees on the City ROW represent a moderate risk concerning the likelihood of them failing and impacting significant targets within the next two years, and the extent of the potential consequences. Twenty-three of these trees are recommended pruning work to reduce potential hazards. Two of these trees are recommended for removal within the next year. All of these trees have been designated B-Priority rankings for recommended maintenance work.

> I determined that 20 of the trees on the City ROW qualify as representing a low risk within the next two years. I recommend that these trees be inspected again by an ISA Certified Arborist in two years. The majority of these trees have been designated a D Priority ranking.

At the time of the site meeting with the prospective tree service providers on February 12, 2024, Kailash Mozumder and Ed Morrison requested that the Trees identified as #51 and #52 in this report (Two Blue Gum Eucalyptus), be added to the tree removal list because they are not good specimens and have poor growth patterns.

Mr. Mozumder and Mr. Morrison also identified five additional trees on the adjacent Regional Transport Commission Property that need to be pruned or removed for safety reasons (These trees are identified in the separate matrix on Page 39).

BACKGROUND:

Kailash Mozumder asked me to provide an assessment of the conditions of the trees on Park Avenue on behalf of the City of Capitola. A number of mature Blue Gum Eucalyptus fell onto Park Avenue during last winter's storms and the city wishes to have a tree risk assessment and management plan undertaken concerning the conditions of the existing trees found on the City Right of Way, between Monterey Avenue and Wesley Street. I prepared the original arborist report in December, 2024. This revised report includes additional trees of concern and some corrections concerning the content of the original report.

ASSIGNMENT:

1- Provide an assessment of the health and structural conditions of 57 trees found within the Public Right of Way on Park Avenue, between Monterey Avenue and Wesley Street. Assess all of the trees that have trunks equaling six-inches and larger in diameter when measured at 54-inches above ground. Utilize ISA Level Two Inspection Standards for these assessments. The trunks of a number of these trees transect the boundary between the City Right of Way and the adjacent Regional Transport Commission Property. Affix numbered tags to the trunks of the subject trees and take field notes and photographs. Geolocate the location of each tree.

2- Prepare an arborist report:
- Provide background information about the nature of the assignment.
- Document the dimensions and the health and structural conditions of the subject trees in a Tree Risk Assessment and Maintenance Matrix. Utilize this matrix to provide determinations concerning the level of risk each of these trees represents within a prescribed time frame (within a two-year time frame).
- Provide recommendations for the management of each tree to either reduce or abate potential risks to life and property.
- Prepare a Tree Location Map to go with this report.

LIMITATIONS:

The assessments of these trees were made from the ground. The tree's crowns were not accessed to examine their above ground structures, nor were their roots examined below ground. The inspections of these trees were limited to visual examinations and did not entail advanced assessments of their internal structural conditions with the aid of tomography or by other means.

The recommendations for pruning and maintenance work within this report are intended to reduce the risk of tree failures. These recommendations are based on objective assessments of the probability of tree failure and tree risk analysis within a specified period. These recommendations must never be considered as guarantees against such events ever occurring. Trees can and sometimes do fail unexpectedly, despite these assessments and determinations being undertaken by a qualified Certified Arborist.

Trees are living organisms, and their health and structural conditions can change within a short period of time. I recommend that these trees are inspected periodically by a certified arborist to determine if there are any significant changes in the subject trees' health and structural conditions.

OBSERVATIONS – THE 56 SURVEYED TREES ON THE CITY RIGHT OF WAY:

Tree #1 – 10-inch DBH Bailey Acacia *(Acacia baileyana)*:
Tree #2 – 8-inch DBH bailey Acacia:
Tree #3 – 12.5-inch DBH Bailey Acacia:

These trees are found within the crowded stand of acacias at the western end of the tree assessment area, near Monterey Avenue. Trees #1 and #2 exhibit strong leans. This species is vulnerable to falling in storm conditions.

Trees #4 through #15 – Ten Coast Live Oaks *(Quercus agrifolia)* and two Blue Gum Eucalyptus *(Eucalyptus globulus)*:

The majority of the Blue Gum Eucalyptus within the assessment area exhibit good health and vitality, as shown by their foliage conditions. The majority of these trees have either fair or poor structural condition ratings because they have large diameter dead branches within their crowns. Many of the Blue Gum Eucalyptus also have overextended branches that encroach out over Park Avenue.

Looking east from Park Avenue

Trees #6 – 9-inch DBH Coast Live Oak:
Tree #7 – 12 & 11-inch DBH Coast Live Oak
Tree #8 – 10-inch DBH Coast Live Oak:
Tree #9 – 7.5-inch DBH Coast Live Oak:
Tree #10 – 15-inch DBH Coast Live Oak:
Tree #11 – 9.5-inch DBH Coast Live Oak:

The Coast Live Oaks identified as number six and number seven are dead and they are vulnerable to falling at this time (whole tree failure is probable within the next two years).

Tree #12 – 57-inch DBH Blue Gum Eucalyptus:

This tall tree has large diameter dead branches within its crown. I also observed overextended branches that extend out over Park Avenue.

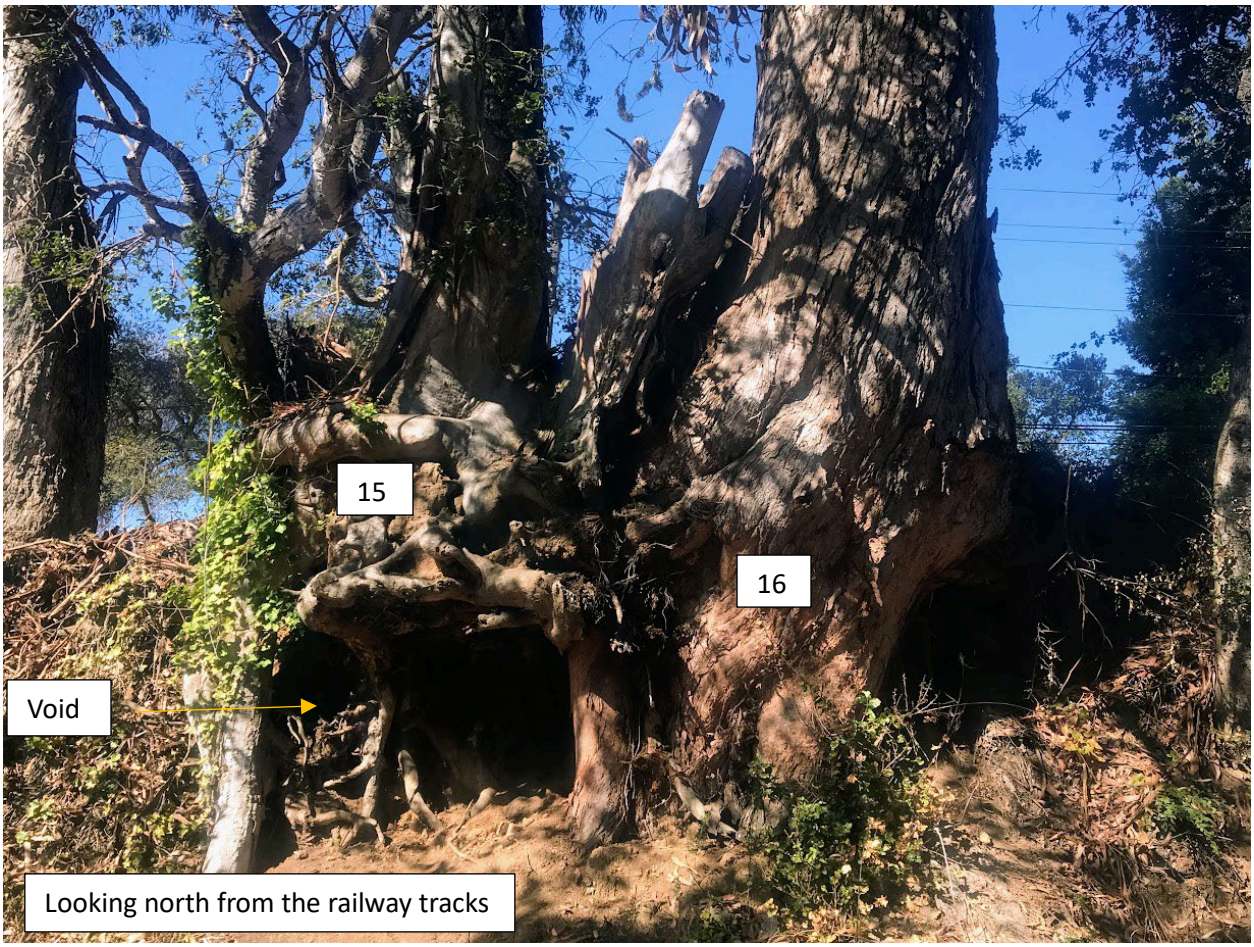
I also observed that the trunk of Tree #12 is set back 12-inches away from the top of the steep bank on its south side. The bank appears to be stable at this time and I determined that this tree is unlikely to fall within the next two years because of this situation.

Tree #15 – 49-inch DBH Blue Gum Eucalyptus:
Tree #16 – 65-inch DBH Blue Gum Eucalyptus:

Both of these trees are located at the top of the steep bank above the railway line.

The roots and the base of the trunk of Tree #15 are significantly undermined by erosion. I determined that this tall tree is vulnerable to falling as a result of the loss of structural support in the bank (failure is possible within the next two years).

Tree #16 is partially undermined by erosion. I observed several large supportive roots that extend down the bank and they appear to be well anchored in the ground. I determined the likelihood of this tree falling to be improbable within the next two years. I also observed large dead branches in the crown of this tree.



Tree #17 – 72, 26, 16 & 17-inch DBH Blue Gum Eucalyptus:
Tree #18 – 60, 17, 10, 16, 30 & 44-inch DBH Blue Gum Eucalyptus:
Tree #19 – 51-inch DBH Blue Gum Eucalyptus:

Tree #17 has multiple codominant stems that share narrow areas of attachment. I observed large dead branches in the crowns of these trees. These trees also have overextended branch structures that encroach out over Park Avenue. I determined that the dead branches and overextended branches are vulnerable to failing and falling onto Park Avenue (failure is possible within two years).

Tree #22 – 29, 19.5 & 8-inch DBH Blue Gum Eucalyptus:

This tree has developed a codominant growth pattern, having three stems that are attached to an original stump. The stump is extensively decayed.

I determined that these codominant stems vulnerable to falling at this time and that they have the potential to strike Park Avenue and the private residences within their falling radius (failure is possible within the next two years).

Tree #26 – 46-inch DBH Blue Gum Eucalyptus:

I observed large diameter dead branches and overextended branches in the crown of this tree (failure is possible within the next two years).

Trees #27 through #31 – Five Elms *(Ulmus ssp.)*:

These small diameter trees have likely been infected by Dutch Elm Disease. Trees #27 through #30 are dead and they are vulnerable to falling at this time.

Trees #33 through #40 – Eight Blue Gum Eucalyptus:

These large trees have fair structural conditions as a result of them having large diameter dead branches within their crowns and overextended branches that encroach out over Park Avenue. I determined that these branches are vulnerable to failing in storm conditions (failure is possible within the next two years).

Tree #35 – 62-inch DBH Blue Gum Eucalyptus:
Tree #36 – 39-inch DBH Blue Gum Eucalyptus:

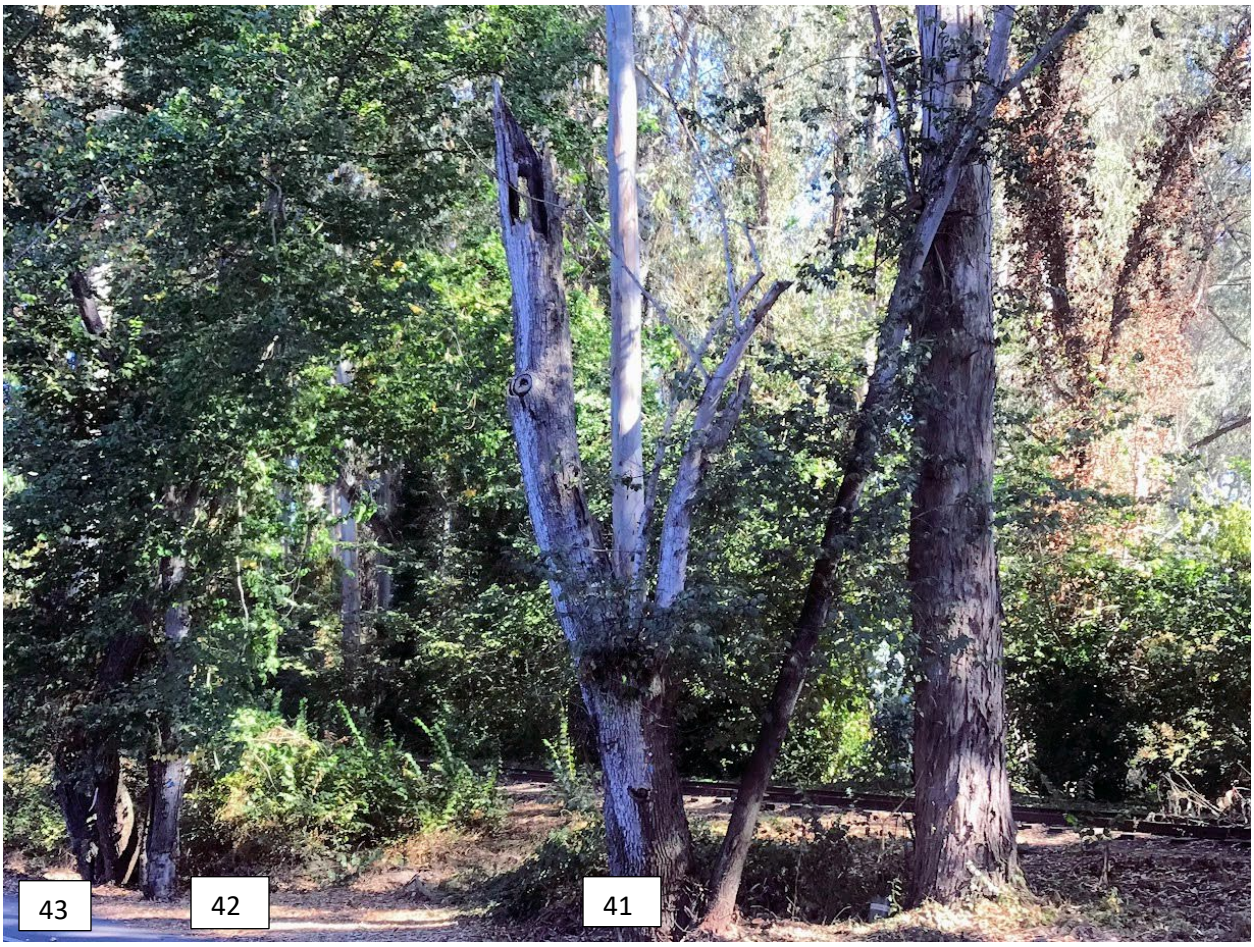
These large trees have fair structural conditions because they have large diameter dead branches within their crowns, and they have overextended branches that encroach out over Park Avenue. I determined that these branches are vulnerable to failing in storm conditions (branch failures are possible within two years).

Tree #36 – 39-inch DBH Blue Gum Eucalyptus:
Tree #37 – 26.5-inch DBH Blue Gum Eucalyptus:
Tree #38 – 29-inch DBH Blue Gum Eucalyptus:
Tree #39 – 19-inch DBH Blue Gum Eucalyptus:
Tree #40 – 39-inch DBH Blue Gum Eucalyptus:

These large trees have fair structural conditions as a result of them having large diameter dead wood within their crowns and they have overextended branches that encroach out over Park Avenue. I determined that these branches are vulnerable to failing in storm conditions (branch failures are possible within two years).

Tree #41 – 40-inch DBH Elm:

This tree is in poor health, and it has an extremely poor structural condition because its trunk is extensively decayed. I determined that it is vulnerable to falling into Park Avenue at this time (whole tree failure is probable within the next two years).



Tree #42 – 16 & 13-inch DBH Elm:

The trunk has been extensively damaged by a vehicle impact. This large wound will become infected by fungal decay. I determined that this tree will become increasingly vulnerable to falling over time (whole tree failure is improbable within the next two years).

I observed large diameter dead branches within the crown of this tree (branch failures are possible within the next two years).

Tree #43 – 22 & 32-inch DBH Elm:

This codominant tree has extensive areas of decay in its stems. I determined that it is vulnerable to falling into Park Avenue at this time (whole tree failure is probable within the next two years).

Tree #44 – 28, 28 & 19-inch DBH Blue Gum Eucalyptus:
Tree #45 – 42, 16, 17 & 8-inch DBH Blue Gum Eucalyptus:
Tree #47 – 29 & 54-inch DBH Blue Gum Eucalyptus:
Tree #48 – 17 & 23-inch DBH Blue Gum Eucalyptus:

These large trees have fair structural conditions as a result of them having large diameter dead wood within their crowns and overextended branches that encroach out over Park Avenue. I determined that these branches are vulnerable to failing in storm conditions, and that they will strike Park Avenue (branch failures are possible within the next two years). Note that Tree #46 (a 13-inch DBH Blue Gum Eucalyptus is dead).

Tree #51 – 9 & 10.5-inch DBH Blue Gum Eucalyptus:
Tree #52 – 20.5 & 45-inch DBH Blue Gum Eucalyptus:
Tree #53 – 26.5 & 12-inch DBH Blue Gum Eucalyptus:

These trees have fair structural conditions because they have large diameter dead wood within their crowns and overextended branches that encroach out over Park Avenue. I determined that these branches are vulnerable to failing in storm conditions, and that they will fall on Park Avenue (branch failures are possible within two years).

DETERMINATIONS:

TREE RISK ASSESSMENT AND MAINTENANCE MATRIX – THE 56 TREES ON THE CITY RIGHT OF WAY:

I utilized the ISA Basic Tree Risk Assessment Form to make the determinations found within this matrix. These determinations pertain to the level of risk each tree represents to surrounding life and property within a two-year time period (See the attached form).

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T1	Bailey Acacia *(Acacia baileyana)*	10	30X15	Good	Poor	Park Avenue & landscape	> Leans strongly west. > Potential for root failure	> Possible > Unlikely	Significant	Low	I recommend that all of the Baileys Acacia be removed because this species is vulnerable to failure, and it is invasive.	**C**
T2	Bailey Acacia	8	25X15	Good	Poor	Park Avenue & landscape	> Trunk leans strongly > Potential for root failure	> Improbable > Unlikely	Significant	Low	I recommend that all of the Baileys Acacia be removed because this species is vulnerable to failure, and because it is an invasive species.	**C**
T3	Bailey Acacia	12.5	35X15	Good	Poor	Park Avenue & landscape	A poor codominant growth pattern at 8-feet above ground.	> Improbable > Unlikely	Significant	Low	I recommend that all of the Baileys Acacia be removed because this species is vulnerable to failure and because it is an invasive species.	**C**
T4	Coast Live Oak *(Quercus agrifolia)*	6.5	15X15	Good	Fair	Park Avenue	None	> Improbable > Unlikely	Significant	Low	None	**D**
T5	Coast Live Oak	28\21	35X40	Good	Fair	Park Avenue	None	> Improbable > Unlikely	Significant	Low	None	**D**
T6	Coast Live Oak	9	25X10	Dead	Poor	Park Avenue	Vulnerable to falling as a result of fungal decay	> Probable > Likely	Significant	High	Remove tree to abate risks	**A**
T7	Coast Live Oak	12/11	20X25	Dead	Poor	Park Avenue & Rail Trail	Vulnerable to falling as a result of fungal decay	> Probable > Likely	Significant	High	Remove tree to abate risks	**A**
T8	Coast Live Oak	10	30X10	Fair	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	E LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T9	Coast Live Oak	7.5	30X15	Good	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**
T10	Coast Live Oak	15	30X15	Good	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**
T11	Coast Live Oak	9.5	20X10	Good	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**
T12	Blue Gum Eucalyptus *(Eucalyptus globulus)*	57	85X70	Good	Fair	Park Avenue, the Rail Trail, and the residential properties within its falling radius.	1- I observed a steep bank 12-inches south of the trunk. 2- Observed large dead branches in the crown.	> Improbable > Unlikely > Possible > Somewhat likely	Severe Significant	Low Moderate	1- Inspect this tree every two years 2- Prune to remove all dead branches over 1.5-inches diameter (Overall residual risk rating will be low after this work).	**D** **B**
T13	Coast Live Oak	9.5	20X10	Good	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**
T14	Coast Live Oak	7.5	15X20	Fair	Fair	The Rail Trail	Perched above the eroded bank which could compromise root stability.	> Improbable > Unlikely	NA	Low	Inspect this tree every two years	**D**
T15	Blue Gum Eucalyptus	49	150X50	Fair	Fair	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	1- Observed significant erosion in the steep bank next to the trunk. This tree is vulnerable to falling as a result of its compromised supportive roots in the bank. 2- Observed a dieback pattern and large dead branches in the crown.	> Possible > Somewhat Likely > Probable > likely	Severe Significant	Moderate High	I recommend that this tall tree be removed to abate all potential hazards resulting from whole tree failure and from branch failures. It is important to note that the consequences of tree failure have the potential to be severe.	**A**

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TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T16	Blue Gum Eucalyptus	65	90X120	Fair	Fair	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	Observed large dead branches in the crown of this tree	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (I determined that the overall residual risk rating will be low after this pruning work).	**B**
T17	Blue Gum Eucalyptus	72/26/16 /17	140X140	Good	Poor	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	1- Observed large dead branches in the crown of this tree. Also observed heavy overextended branches over Park Avenue. 2- Observed multiple codominant stems that share narrow attachments at the trunk and each other.	> Possible > Somewhat likely > Improbable > Unlikely	Significant Severe	Moderate Low	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter. I also recommend that weight reduction pruning be undertaken at the ends of the overextended branches over the road (I determined that the overall residual risk rating will be low after this pruning work).	**B** **D**
T17A	Blue Gum Eucalyptus (No tag)	31	60/25	Good	Fair	Park Avenue and the RTC property.	None	> Improbable > Unlikely	NA	Low	None	**D**

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T18	Blue Gum Eucalyptus Note – This tree is possibly located on the Rail Trail property.	60/17/ 10/16/ 30/44	150X45	Good	Poor	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	1- Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
							2- Observed multiple codominant stems that share narrow attachments at the trunk and each other.	> Improbable > Unlikely	Severe	Low	I recommend that this tree be inspected again in two years.	**D**
T19	Blue Gum Eucalyptus	51	175X80	Good	Fair	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T20	Blue Gum Eucalyptus	51	100X45	Good	Fair	Park Avenue & the Rail Trail, as well as the residential properties located within its falling radius.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T21	Coast Live Oak Note – Possibly located on the Rail Trail Property.	12	20X15	Good	Fair	Targets include Park Avenue and the RTC Property.	None	> Improbable > Unlikely	NA	Low	None	**D**

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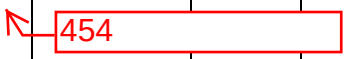
TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T22	Blue Gum Eucalyptus Note – It is possible that this tree is actually located on the adjacent Rail Trail property. 3596	29/8/ 19.5	90X40	Good	Poor	Targets include Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed that the three codominant stems are attached to an extensively decayed stump. Observed Large dead branches in the crown	> Probable > likely	Severe	High	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**A**
T23	Blue Gum Eucalyptus	27/21	150X50	Fair	Poor	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T24	Blue Gum Eucalyptus 358	13	50X15	Good	Fair	Park Avenue and the residential properties located within its falling radius.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T25	Blue Gum Eucalyptus Note – It is possible that this tree is actually located on the adjacent Rail Trail property.	12	50X15	Good	Fair	Park Avenue and the residential properties located within its falling radius.	None	> Improbable > Unlikely	NA	Low	None	**D**

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T26	Blue Gum Eucalyptus Note – Possibly located on the RTC Property 359	46	150X80	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T26A	Monterey Pine *(Pinus radiata)*			Good	Poor	Park Avenue	Overextended branches	> Possible > Somewhat likely	Significant	Moderate	Reduce weight on overextended branches.	B
T27	Elm *(Ulmus spp.)*	6	30X10	Dead	Poor	Park Avenue	Observed decay in the trunk and branches	> Probable > Likely	Significant	High	I recommend that this tree be removed as soon as possible.	A
T28	Elm	9	30X5	Dead	Poor	Park Avenue	Observed decay in the trunk and branches	> Probable > Likely	Significant	High	I recommend that this tree be removed as soon as possible.	A
T29	Elm	8	30X5	Dead	Poor	Park Avenue	Observed decay in the trunk and branches	> Probable > Likely	Significant	High	I recommend that this tree be removed as soon as possible.	A
T30	Elm	7	20X5	Dead	Poor	Park Avenue	Observed decay in the trunk and branches	> Probable > Likely	Significant	High	I recommend that this tree be removed as soon as possible.	A
T31	Elm	7	20X10	Poor	Poor	Park Avenue	Observed decay in the trunk and branches	> Probable > Likely	Significant	High	I also recommend that this tree be removed as soon as possible.	A
T32	Blue Gum Eucalyptus	22.5	80X25	Good	Good	Park Avenue & the Rail Trail Property. Also located within the falling radius of nearby residential properties.	None	> Improbable > Unlikely	NA	Low	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter. Reduce weight in the ends of the overextended branches that extend out over the street (The overall residual risk rating will be low after this pruning work is completed).	B

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T33	Blue Gum Eucalyptus	28/61	125X80	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T34	Blue Gum Eucalyptus	41	175X50	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T35	Blue Gum Eucalyptus	62	150X80	Fair	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T36	Blue Gum Eucalyptus	39	175X50	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T37	Blue Gum Eucalyptus	26.5	70X30	Good	Fair	Park Avenue & the Rail Trail Property. Also located within the falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B



TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T38	Blue Gum Eucalyptus	29	180X40	Fair	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T39	Blue Gum Eucalyptus	19	70X30	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T40	Blue Gum Eucalyptus	39	150/50	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	B
T41	Elm	40	45X20	Poor	Poor	Park Avenue	Observed extensive areas of decay in the trunk Observed Large dead branches in the crown	> Probable > Likely	Severe	High	I recommend that this tree be removed as soon as possible to abate all potential hazards.	A
T42	Elm	16/13	45X20	Good	Fair	Park Avenue	Observed Large dead branches in the crown Observed extensive damage to the trunk from a vehicle impact.	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be removed within the next year. Its trunk will become infected by decay in the future because of the extensive damage.	B

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T42A	Elm (No Tag)	9.5	15X15	Good	Fair	The Rail trail Property	None	> Improbable > Unlikely	NA	Low	None	**D**
T42B	Elm (No Tag)	12	50X25	Good	Fair	Park avenue and the Rail Trail Property	None	> Improbable > Unlikely	NA	Low	None	**D**
T43	Elm	22/32	60X30	Good	Poor	Park Avenue	Observed extensive decay in both of the codominant stems.	> Probable > Likely	Severe	High	I recommend that this tree be removed as soon as possible to abate all potential hazards.	**A**
T44	Blue Gum Eucalyptus 490	28/28/19	175X40	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T45	Blue Gum Eucalyptus 491	42/16/178	180X60	Good	Fair	Park Avenue & the Rail Trail Property. Also located within falling radius of nearby residential properties.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T46	Blue Gum Eucalyptus	13	75X5	Dead	Poor	Park Avene, the Rail Trail Property, and the residences within this tree's falling radius.	Observed that this pine has been dead for a number of years and that it is vulnerable to falling onto Park Avenue.	> Probable > Likely	Severe	High	I recommend that this dead tree be removed as soon as possible to abate all potential hazards.	**A**

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T47	Blue Gum Eucalyptus	29/54	175X40	Good	Fair	Park Avene, the Rail Trail Property, and the residences within this tree's falling radius.	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**
T48	Blue Gum Eucalyptus	17/23	135X10	Good	Fair	Park Avene, the Rail Trail Property, and the residences within this tree's falling radius.	None	> Improbable > Unlikely	NA	Low	None	**D**
T49	Blue Gum Eucalyptus	22	100X25	Fair	Fair	Park Avene, the Rail Trail Property, and the residences within this tree's falling radius.	Observed Large dead branches in the crown. Observed a large wound on the south side of the lower trunk.	> Possible > Somewhat likely	Severe	Moderate	I recommend that this tree be removed to abate all potential hazards resulting from tree failure.	**B**
T50	Big Leaf Maple *(Acer macrophyllum)*	8.5	15X15	Good	Good	Park Avenue	None	> Improbable > Unlikely	NA	Low	None	**D**
T51	Blue Gum Eucalyptus	9/10.5	50X10	Fair	Fair	Park Avene and the Rail Trail Property	None	> Improbable > Unlikely	NA	Low	None	**D**
T52	Blue Gum Eucalyptus	20.5/45	90X10	Fair	Fair	Park Avene and the Rail Trail Property	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT & CROWN WIRDTH (Feet)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF TREE FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T53	Blue Gum Eucalyptus	26.5/12	70X30	Good	Fair	Park Avene and the Rail Trail Property	Observed Large dead branches in the crown	> Possible > Somewhat likely	Significant	Moderate	I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter (The overall residual risk rating will be low after this pruning work).	**B**

TREE MAINTENANCE RECOMMENDATIONS – THE 56 TREES ON THE CITY RIGHT OF WAY:

I recommend that I meet with the prospective Tree Service Providers to discuss the scope of the recommended tree maintenance work on the site during the bidding process. I should also be available to inspect the work in progress to ensure that it is being performed correctly. This work must follow ANSI A-300 Best Management Practices and ISA Standards for Tree Pruning and Removal Work The work must also be performed under the supervision of an ISA Certified Arborist.

I recommend that the following actions are taken to reduce potential risks to life and property.

RECOMMENDED A PRIORITY WORK:

I recommend that this work be undertaken as soon as possible.

Remove the following trees to abate potential hazards resulting from whole tree failures.

Tree #6 – 9-inch DBH Coast Live Oak
Tree #7 – 12 & 11-inch DBH Coast Live Oak
Tree #15 – 49-inch DBH Blue Gum Eucalyptus
Tree #22 – 29, 8 & 19.5-inch DBH Blue Gum Eucalyptus
Tree #27 – 6-inch DBH Elm
Tree #28 – 9-inch DBH Elm
Tree #29 – 8-inch DBH Elm
Tree #30 – 7-inch DBH Elm
Tree #31 – 7-inch DBH Elm
Tree #41 – 40-inch DBH Elm (grind the stump)
Tree #43 – 22 & 32-inch DBH Elm (grind the stump)
Tree #46 – 13-inch DBH Blue Gum Eucalyptus

3596

381 - weight reduction
391 - removal
482 - pruning
492 - removal=dead

RECOMMENDED B PRIORITY WORK:

I recommend that this work be undertaken within one year of this report.

Prune the following trees to reduce potential hazards resulting from branch failures.

> Remove all dead branches larger than 1.5-inches diameter.
> Remove all damaged and crossing branches larger than 1.5-inches diameter.
> Reduce the weight in the ends of all of the overextended branches that encroach over Park Avenue. Utilize thinning cuts (wherever possible, prune the ends of these overextended branches back to side branches that are no less than 1/3 the diameter of the piece removed).

Tree #12 – 57-inch DBH Blue Gum Eucalyptus
Tree #16 – 65-inch DBH Blue Gum Eucalyptus
Tree #17 – 72, 26, 16 & 17-inch DBH Blue Gum Eucalyptus
Tree #18 – 60, 17, 10, 16, 30 & 44-inch DBH Blue Gum Eucalyptus
Tree #19 – 51-inch DBH Blue Gum Eucalyptus
Tree #20 – 51-inch DBH Blue Gum Eucalyptus
Tree #23 – 27 & 21-inch DBH Blue Gum Eucalyptus
Tree #24 – 13-inch DBH Blue Gum Eucalyptus
Tree #26 – 46-inch DBH Blue Gum Eucalyptus
Tree #32 – 22.5-inch DBH Blue Gum Eucalyptus
Tree #33 – 28 & 61-inch DBH Blue Gum Eucalyptus
Tree #34 – 41-inch DBH Blue Gum Eucalyptus
Tree #35 – 62-inch DBH Blue Gum Eucalyptus
Tree #36 – 39-inch DBH Blue Gum Eucalyptus
Tree #37 – 26.5-inch DBH Blue Gum Eucalyptus
Tree #38 – 29-inch DBH Blue Gum Eucalyptus
Tree #39 – 19-inch DBH Blue Gum Eucalyptus
Tree #40 – 39-inch DBH Blue Gum Eucalyptus
Tree #44 – 28, 28 & 19-inch DBH Blue Gum Eucalyptus
Tree #45 – 42, 16, 17 & 8-inch DBH Blue Gum Eucalyptus
Tree #47 – 29 & 54-inch DBH Blue Gum Eucalyptus
Tree #53 – 26.5 & 12-inch DBH Blue Gum Eucalyptus

Remove Tree #42 – 16 & 13-inch DBH Elm (grind the stump)
Remove Tree #49 – 22-inch DBH Blue Gum Eucalyptus (grind the stump)
Remove Tree #51 – 9 & 10.5-inch DBH Blue Gum Eucalyptus (grind the stump)
Remove Tree #52 – 20.5 & 45-inch DBH Blue Gum Eucalyptus (grind the stump)

RECOMMENDED C PRIORITY WORK:

I recommend that this work be undertaken within two years of this report.

Remove the following trees to abate potential hazards resulting from whole tree failures.

Tree #1 – 10-inch DBH Bailey Acacia (grind the stump or treat it with an approved herbicide)
Tree #2 – 8-inch DBH Bailey Acacia (grind the stump or treat it with an approved herbicide)
Tree #3 – 12.5-inch DBH Bailey Acacia (grind the stump or treat it with an approved herbicide)

Note that I also recommend that all of the Bailey Acacias on this site be removed because this species typically becomes vulnerable to falling when it grows larger over time. It is also an invasive species. I recommend that consideration be given to planting Coast Live Oaks as replacement trees in this location.

THE FIVE TREES OF CONCERN ON THE REGIONAL TRANSPORT COMMISSION PROPERTY:

OBSERVATIONS & RECOMMENDATIONS:

Note - The tree tag numbers below pertain to the tree resource assessment undertaken by RRM Design Group in 2021.

Tree #381 – 35-inch DBH Monterey Pine *(Pinus radiata)*:

This tree is located opposite the residence at 414 Park Avenue. It has a poor structural condition, having an overextended branch structure that encroaches out over Park Avenue. This tree also has a codominant growth pattern, having two stems attached to its trunk at about 18-feet above ground. The area of attachment between these stems is poor.

I recommend that five of the lower branches that encroach over the street be removed and that weight is also reduced in the ends of the remaining branches on that side of the tree.

I also recommend that consideration be given to installing a support cable between the two codominant stems that share a poor attachment.

Two Baileys Acacia (Possibly Tree #391 and another adjacent unidentified Acacia):

A 10-inch diameter stem on the larger tree and a six-inch diameter branch on the smaller tree encroach over Park Avenue. They are vulnerable to falling onto Park Avenue at this time.

I recommend that the encroaching stem and branch be removed to prevent them from striking the street.

Tree #482 – 80-inch DBH Blue Gum Eucalyptus:

The crown of the large tree encroaches out over Park Avenue. I observed large dead branches over the street. This tree also has overextended branches that are vulnerable to falling onto the street.

I recommend that this tree be pruned to remove dead branches over 1.5-inches diameter and that weight is reduced in the ends of the overextended branches that have the potential to fall onto Park Avenue.

Tree #492 – 19-inch DBH Monterey Pine:

This dead pine leans towards Park Avenue and it is being weakened by fungal decay. I determined that it will likely fall within the next two years and that the consequences of this event have the potential to be severe.

I recommend that this pine be removed expeditiously to abate all potential hazards resulting from tree failure.

Tree #507 – 41-inch DBH Blue Gum Eucalyptus:

This large tree has a low limb that encroaches out over Park Avenue. This limb crosses the trunk of an adjacent tree on the RTC Property (Tree #508). I recommend that the crossing limb be removed at this time.

TREE RISK ASSESSMENT AND MAINTENANCE MATRIX – THE FIVE TREES OF CONCERN ON THE ADJACENT REGIONAL TRANSPORT COMMISSION PROPERTY:

TREE NUMBER	TREE SPECIES	TRUNK DIAMETER AT 54-INCHES ABOVE GROUND (DBH)	ESTIMATED TREE HEIGHT (FEET)	HEALTH CONDITION	STRUCTURAL CONDITION	POTENTIAL TARGETS OF CONCERN	TREE DEFECTS AND CONDITIONS OF CONCERN	LIKELIHOOD OF FAILURE AND LIKELIHOOD OF IMPACT WITHIN TWO YEARS	POTENTIAL CONSEQUENCES OF FAILURE	ASSESSED RISK RATING WITHIN A TWO-YEAR PERIOD	RECOMMENDED ACTIONS TO ABATE OR MITIGATE POTENTIAL RISKS TO SURROUNDING LIFE AND PROPERTY	PRIORITY LEVEL
T381	Monterey Pine *(Pinus radiata)*	35	65	Good	Poor	Park Avenue	- Overextended branches and a weak codominant growth pattern. - Codominant stems that share a weak attachment.	> Possible > Somewhat likely	Significant	Moderate	> Remove the lower branches over the street. > Install a support cable between the codominant stems.	B
T391	Two Bailey Acacias *(Acacia baileyana)*	10 & 6	15	Good	Poor	Park Avenue	- Strong leans over the street.	> Probable > Likely	Significant	High	> Remove the leaning stem and the encroaching branch.	A
T482	Blue Gum Eucalyptus *(Eucalyptus globulus)*	80	100	Fair	Poor	Park Avenue	Overextended branches & large dead branches that extend out over Park Avenue.	> Possible > Somewhat likely	Significant	Moderate	Remove dead branches over 1.5-inches diameter and to reduce the weight in the ends of overextended branches.	B
T492	Monterey Pine	NA	NA	Dead tree	Poor	Park Avenue	A dead tree that is being weakened by decay in its trunk and roots.	> Probable	Severe	High	I recommend that this tree be removed as soon as possible to abate all potential risks to life and property.	A
T507	Blue Gum Eucalyptus	NA	NA	Good	Poor	Park Avenue	A large crossing branch that extends out over the road.	Possible	Severe	Moderate	I recommend that the crossing branch of concern be removed.	B

Please contact me if you have any questions pertaining to this report.

Respectfully submitted,

Nigel Belton

Attachments:
- Assumptions & Limiting Conditions
- Tree Location Maps (City ROW Trees)
- ISA Basic Tree Risk Assessment Form (Tree #22)
- ISA Basic Tree Risk Assessment Form (Tree #17)