

# TREE INVENTORY REPORT & RECOMMENDED TREE PRESERVATION MEASURES

SAFEWAY  
1425 Henry Street  
Berkeley, CA



- Arborist Addendum #2
- Revised Tree Inventory Report
- Revised Tree Inventory Plan

PREPARED BY:  
INSIDEOUT DESIGN



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# Arborist addendum #2

July 21, 2010

Graham Hill, Architect  
Lowney Architecture  
360 17th Street, Suite 100  
Oakland, California 94612

Graham,

This memorandum is an addendum to the original Tree Inventory Report, dated November 19, 2009. As the second addendum, this document shall supersede Addendum #1, dated May 3, 2010. Revised recommendations per this second assessment have been highlighted in orange.

Per your request we are furnishing this addendum to address the following:

- The proposed building footprint has been relocated at the southwest corner of the project (Parcel 2). A previous setback of 10 feet from the southern property line has now been increased to a 20 foot setback. Due to the proposed relocation of the building, potential impacts that would be placed on existing trees (namely #4, 5, 8 and 9) have been reassessed below.

This report is meant as a supplement to the original report and should be reviewed in tandem with the original Tree Inventory Report (attached).

## **Potential impacts on existing trees on Parcel 2**

The proposed relocation of the building allows a 10 foot setback from the southern property line along Parcel 2. The revised building location would allow for some of the trees to remain while others would be adversely impacted due to their proximity to site disturbances. Some trees, notably the Monterey pines, would require removal due to conflicts with the building location.

It is my understanding that the goal of the project is to save as many existing trees as possible. While this objective may be seen as laudable, trees selected for preservation should exhibit a balanced structure, vigor and vitality. As previously assessed, most of the trees located on Parcel 2 retain a relatively low Retention Value.

## TREE INVENTORY & ASSESSMENT

Tree assessments were conducted on April 29, 2010 and July 20, 2010.

The following tree assessments were based on the existing tree's current condition. Each tree was evaluated on a scale from 1-10 based on the following criteria:

- Structure (S) & Health (H) (1-10)
  - 1 = poorest rating
  - 10 = best rating
- Retention Value (RV) (1-10)
  - 1 = dead
  - 2-3 = Poor condition: extreme problems, or tree in severe decline (removal usually recommended based on poor health and potential hazard)
  - 4-6 = Fair condition: minor problems that can be usually remedied through basic arboriculture procedures, i.e. pruning, fertilization; (tree retention optional)
  - 7-8 = Good condition: no apparent problems
  - 9-10 = Tree exhibits balanced structure, vigor and exceptional health, and/or is a dominant species in vicinity

While trees that receive a rating from 7-10 are deemed as worthy to preserve, it does not preclude them from being removed. The parameters of the site conditions, construction layout, cost of development, and other unforeseen factors must all be considered in the preservation of any particular tree.

Diameters (DIA) were measured at 54" above grade at the time of our original survey (November 2009).

All trees to be removed shall be done so in accordance with the City of Berkeley's tree removal protocol.

**Tree assessments at the Safeway site at 1425 Henry Street in Berkeley, California**

**Key**

DIA	Diameter measured 54" above grade
H	Health
S	Structure
RV	Retention Value

#	SPECIES	DIA	H	S	RV	OBSERVATIONS/RECOMMENDATIONS
1	<i>Syzygium paniculatum</i> , Australian brush cherry	20"	8	6	7	Located on adjacent vacant lot (Parcel 2). <b>Tree is located 11 feet from the proposed building.</b> Central leader divides into three leaders 6 feet above grade and shows signs of included bark <sup>1</sup> below branch union. 9 inch leader pruned at branch union. <i>Tree may be retained if proper tree protection measures are addressed. See Items 3.0, 4.0 and 5.0 in General Tree Protection Measures &amp; Guidelines.</i>
2	<i>Prunus sp.</i> , Flowering plum	5", 6"	8	6	6	Located on adjacent vacant lot (Parcel 2). <b>Tree is located 11 feet from the proposed building.</b> Tree is likely a volunteer fruit tree. Codominant leaders at base. Significant sucker growth at base. <i>Tree may be retained if proper tree protection measures are in place. If preserved, see Items 3.0, 4.0 and 5.0 in General Tree Protection Measures &amp; Guidelines.</i> <i>Due to the fair structure of the plum, we recommend removal and replacement with a more suitable species.</i>
3	<i>Prunus sp.</i> , Flowering plum	4", 6"	1	1	1	Located on adjacent vacant lot (Parcel 2). <i>Tree is dead and should be removed.</i>
4	<i>Fraxinus uhdei</i> , Shamel ash	11", 8"	5	5	5	Located on adjacent vacant lot (Parcel 2). <b>Located 1'-10" from proposed building envelope.</b> Exhibits poor branch union 3 feet above grade with included bark <sup>1</sup> . Limited new leaf growth / sparse canopy. <i>Tree likely to be adversely impacted due to proximity of proposed site disturbances. We recommend removal.</i>
5	<i>Fraxinus uhdei</i> , Shamel ash	19"	7	6	6	Located on adjacent vacant lot (Parcel 2). <b>Located 12" from proposed building envelope.</b> Poor branch union 15 feet above grade with included bark <sup>1</sup> . Limited new leaf growth / sparse canopy. A number of southern branches have been improperly pruned. <i>Tree likely to be adversely impacted due to proximity of proposed site disturbances. We recommend removal.</i>
6	<i>Pinus radiata</i> , Monterey pine	43"	7	6	5	Located on adjacent vacant lot (Parcel 2). Located within proposed building envelope. Moderate branch dieback. Tree reaches approximately 45 feet in height. Nearing the end of the typical lifespan for the species. <i>Due to species tendency to uproot and topple when they reach maturity, tree may be seen as a potential hazard. Removal may be warranted. Conflict with building requires removal.</i>
7	<i>Pinus radiata</i> , Monterey pine	25"	6	6	5	Located on adjacent vacant lot (Parcel 2). Located within proposed building envelope. Poor branch union at 6 feet above grade dividing into three leaders. Tree reaches approximately 45 feet in height. Nearing the end of the typical lifespan for the species. <i>Due to species tendency to uproot and topple when they reach maturity, tree may be seen as a potential hazard. Removal may be warranted. Conflict with building requires removal.</i>

8	<i>Acer negundo</i> , box elder	12", 11"	8	6	7	Located on adjacent vacant lot (Parcel 2). <i>Located 1'-7" from proposed building envelope.</i> Codominant leaders at 18 inches above grade with signs of included bark <sup>1</sup> . Some branches have been improperly pruned. <i>Tree likely to be adversely impacted due to proximity of proposed site disturbances. We recommend removal.</i>
9	<i>Acer negundo</i> , box elder	13"	8	7	7	Located on adjacent vacant lot (Parcel 2). <i>Located 5'-6" from proposed building envelope.</i> Southerly lean (away from proposed building). <i>Tree may be retained if proper tree protection measures are addressed. See Items 3.0, 4.0 and 5.0 in General Tree Protection Measures &amp; Guidelines.</i>
10	<i>Prunus sp.</i> , flowering cherry	multi	7	5	6	Located on adjacent vacant lot (Parcel 2). <i>Located approximately 14 feet from proposed building.</i> Tree has 7 leaders ranging from 2 to 4 inches in diameter (three intertwined). Shown to be preserved. <i>If preserved, canopy will require moderate pruning for building clearance. We also recommend corrective pruning of intertwined leaders so that tree can properly develop.</i>
12	<i>Pinus radiata</i> , Monterey pine	24"	7	6	5	Approximately 45 feet in height. Nearing end of typical lifespan of species. <i>Tree may pose a hazard in next decade. Removal may be warranted.</i> <i>Conflict with building requires removal.</i>
13	<i>Pinus radiata</i> , Monterey pine	32"	7	5	4	Approximately 45 feet in height. Nearing end of typical lifespan of species. Tree may pose a hazard in next decade. Numeric tree tag has been removed. Central leader bifurcates 5 feet above grade. 10 inch southern leader lopped off 10 feet above grade. <i>Tree may pose a hazard in next decade. Removal may be warranted due to potential hazard.</i> <i>Conflict with building requires removal.</i>
15	<i>Eucalyptus sideroxylon</i> , red iron bark	9"	6	6	5	Moderate lead to north. Irregular branching structure. Sparse foliage. <i>Conflict with proposed site improvements requires removal.</i>
17	<i>Eucalyptus sideroxylon</i> , red iron bark	10"	6	6	6	Codominant leaders 13 feet above grade. Sparse foliage. <i>Conflict with proposed site improvements requires removal.</i>
18	<i>Eucalyptus sideroxylon</i> , red iron bark	21"	7	6	6	Slight lean over Henry Street. Open cavity at base with decay. <i>Conflict with proposed site improvements requires removal.</i>
19	<i>Eucalyptus sideroxylon</i> , red iron bark	28"	7	6	6	<i>Conflict with proposed site improvements requires removal.</i>
20	<i>Olea europaea</i> , olive	11"	6	5	5	Poor branch union 5 feet above grade. Moderate branch dieback throughout canopy. Multiple sucker growth at base. Moderate lean to south. <i>Conflict with proposed site improvements requires removal.</i>
21	<i>Olea europaea</i> , olive	6", 6", 6", 7"	6	5	5	Bark partially peeling on all leaders. Sucker growth at base. <i>Conflict with proposed site improvements requires removal.</i>
23	<i>Eucalyptus sideroxylon</i> , red iron bark	25"	6	6	6	Growing in 4 foot wide raised concrete planter along sidewalk at Henry Street. Concrete planter failing due to root disturbance. Sparse foliage. <i>Conflict with proposed site improvements requires removal.</i>
40	<i>Ginkgo biloba</i>	9"	8	3	6	Tree shown to remain. Street tree along western shoulder of Shattuck Place. <i>(See Trees that Merit Special Attention in original report).</i> <i>Per recent conversations with the City of Berkeley's Forestry Department, as part of the proposed site improvements, the tree shall be removed and replaced with a 24" box Ginkgo biloba.</i>
41	<i>Pinus radiata</i> , Monterey pine	8", 24", 17"	7	5	6	Codominant leaders 3 feet above grade. <i>Conflict with building requires removal.</i>

43	<i>Prunus cerasifera</i> , purple leaf plum	20"	7	4	5	Poor branch unions 4 feet above grade. Intertwined limbs. Poor branch structure. 10 inch leader fractured at branch attachment shows decay and may present hazard to pedestrians along adjacent sidewalk. 7 inch leader splitting into two. Surface roots partially exposed. <i>We recommend removal.</i> Tree has been removed as directed by the City of Berkeley's Forestry Department.
45	<i>Prunus cerasifera</i> , purple leaf plum	6", 8", 6", 5", 9"	6	2	3	Poor branch union 4 feet above grade. Open cavity at lower trunk with significant decay. Tree presents hazard to pedestrians. <i>We recommend removal.</i> Tree has been removed as directed by the City of Berkeley's Forestry Department.
47	<i>Prunus cerasifera</i> , purple leaf plum	10"	7	6	6	Located on adjacent bank property to the south. Poor branch union 4 feet above grade. Tree tag removed. <i>Conflict with building requires removal. (See Trees that Merit Special Attention in original report.)</i>
48	<i>Prunus</i> sp.	7"	8	6	7	Located on adjacent bank property to the south. Codominant leaders at 5 feet above grade. <i>Conflict with building requires removal. (See Trees that Merit Special Attention in original report.)</i>
49	<i>Loquat</i>	2", 3"	8	6	7	Located on adjacent bank property to the south. Tree should tolerate adjacent site disturbances as long as strict adherences to tree protection measures are observed.
50	<i>Pinus radiata</i> , Monterey pine	22", 24", 23"	6	5	6	Three codominant leaders at 4 feet above grade. Southern two leaders exhibit 45 degree lean to south over bank property. Minor mechanical damage to underside of 11 inch leader over bank property. <i>Conflict with building requires removal.</i>
51	<i>Quercus ilex</i> , holly oak	8"	6	5	6	Shown to be preserved. Tree exhibits a poor branching structure. Tree may be removed and replaced with a more suitable and healthier species.
52	<i>Quercus ilex</i> , holly oak	16"	4	5	4	Shown to be preserved. Poor branch union at 6 feet above grade. Epicormic shoot <sup>2</sup> development noted. Very limited new leaf development. Sparse foliage. <i>We recommend removal and replacement with a more suitable and healthier species.</i>
53	Undetermined species	6"	1	1	1	Dead
54	Undetermined species	6"	1	1	1	Dead
55	Undetermined species	6"	1	1	1	Dead
56	<i>Platanus acerifolia</i> , London plane tree	3"	7	7	7	(Not included in original survey). Remove existing tree stakes. Supplement mulch under dripline.

<sup>1</sup> Include bark: bark that becomes embedded in crotch between branch and trunk or between codominant stems or leaders, which causes a weak structure. Such conditions may increase the likelihood of failure.

<sup>2</sup> Epicormic shoots: sprouts that emerge from dormant buds along the trunk or branch of a tree. They often form in response to the sudden exposure to light in a forest setting but in an urban setting they are more often associated with stress to the tree.

Note: purple leaf plum trees numbered 30, 32, 34, 36 and 38 (shown to remain) that are located along eastern property line exhibit poor health or are in a state of decline. Based on a cursory review, it is our recommendation that they be removed and replaced with a more suitable, healthier tree species.

Please feel free to contact me with any questions or if additional information is needed.

INSIDEOUT DESIGN, INC

A handwritten signature in blue ink, appearing to read 'Pennell Phillips', with a long horizontal stroke extending to the right.

Pennell Phillips  
Principal  
Certified Arborist WE-6608A

November 19, 2009

Revised: July 21, 2010 (additions highlighted in orange)

Mr. Ken Lowney, Architect  
Lowney Architecture  
360 17th Street, Suite 100  
Oakland, California 94612

Dear Ken,

Per your request, we have prepared the following Tree Inventory Report and Tree Inventory Plan for the proposed site improvements at the Safeway site located at 1425 Henry Street in Berkeley, California.

Per the *Proposed Landscape Plan*, dated November 11, 2009, a number of existing trees are shown to be removed. Per the City of Berkeley's Forestry Division recommendations, we have prepared the following work:

1. Identification and documentation of all existing trees that are located on the Safeway site (Parcel 1); all existing trees located on the neighboring property to the north (Parcel 2) also owned by Safeway; and city street trees that border both the parcels. Additional documented trees included adjacent trees on neighboring properties that may be impacted due to proposed site improvements. Documented trees measured a minimum of 4" in diameter at 4 ½ feet above grade.
2. Numerical identification, both on-site and on the Tree Inventory Plan for each tree. Trees were tagged on the north side of the trunk between 4 ½ feet to 6 ½ feet above grade.
3. Approximate dripline locations for trees in close proximity to proposed site improvements.
4. Evaluation of the health and structure of the following trees:
  - Neighboring trees on adjacent properties that may be impacted due to proposed site improvements
  - Proposed street trees shown to be removed
5. Preparation of a Tree Inventory Plan.

## SITE SUMMARY

The proposed site improvements involve a substantial remodel of the existing Safeway building, a new plaza area, and new landscaping. The proposed building envelope expands north into the adjacent vacant lot and east towards Shattuck Place.

The purpose of this report is to document the existing trees on the two parcels where the site improvements are proposed.

Recommended tree protection guidelines are listed for all trees to remain. For the removal of existing street trees, mitigation measures may be required. Beyond the existing street trees, we have found no protected trees, *Quercus agrifolia*, to be located on either of the two parcels.

The Existing Landscape Plan shows the removal of all existing trees on the Safeway site. Most of the trees located along the periphery of the site require removal due to the expansion of the building footprint, changes in grade or demolition of existing structures. In our opinion, the proposed removal of the existing island or parking lot trees is justified. Nearly all of the island and planter trees are in poor to fair condition and are in a state of decline. Each tree can be replaced with a healthier specimen or a more appropriate species.

## TREE INVENTORY & ASSESSMENT

Our site visit was conducted on November 17, 2009.

The following trees were identified:

<i>Pinus radiata</i> , Monterey pine	<i>Prunus cerasifera</i> , purple leaf plum
<i>Eucalyptus sideroxylon</i> , red iron bark	<i>Quercus ilex</i> , holly oak
<i>Olea europaea</i> , olive	<i>Acer negundo</i> , box elder
<i>Syzygium paniculatum</i> , Australian brush cherry	<i>Prunus sp.</i> , flowering plum
<i>Fraxinus uhdei</i> , Shamel ash	<i>Platanus acerifolia</i> , plane tree
<i>Ginkgo biloba</i>	

We have provided additional information, in the section titled *Trees That Merit Special Attention*, which pertains to the following:

- Trees located on adjacent properties that may be impacted due to site improvements
- Existing street trees proposed for removal
- Existing street trees that may require pruning or exhibit deficiencies

Diameters (DIA) were measured at 54" above grade (unless otherwise noted).

Noted distances between trees and proposed site improvements are approximate.

**Tree Inventory and Observations for the Safeway site at 1425 Henry Street in  
Berkeley, California**

#	SPECIES	DIA	OBSERVATIONS/RECOMMENDATIONS	IMPACT
1	Australian brush cherry		Located on adjacent vacant lot (Parcel 2)	Building expansion requires removal
2	Flowering plum		" " " " " " " " " "	" " " " " "
3	Flowering plum	4", 6"	" " " " " " " " " "	" " " " " "
4	Shamel ash	11", 8"	" " " " " " " " " "	" " " " " "
5	Shamel ash	19"	" " " " " " " " " "	" " " " " "
6	Monterey pine	43"	" " " " " " " " " "	" " " " " "
7	Monterey pine	25"	" " " " " " " " " "	" " " " " "
8	Box elder	12", 11"	" " " " " " " " " "	" " " " " "
9	Box elder	13"	" " " " " " " " " "	" " " " " "
10	Flowering cheery		Shown to be removed. Due to poor structure and proximity to proposed building (approx. 3 feet), we recommend removal.	Moderate to significant
11	Plane tree	29"	Street tree on Henry Street. May require protection pending construction access to adjacent lot.	None
12	Monterey pine	24"	Proposed site improvements require removal.	Building expansion requires removal
13	Monterey pine	32"	" " " " " " " " " "	" " " " " "
14	Plane tree	17"	Street tree on Henry Street.	None
15	Red iron bark	9"	Proposed site improvements require removal.	Significant
16	Plane tree	27"	Street tree on Henry Street.	None
17	Red iron bark	10"	Proposed site improvements require removal.	Significant
18	Red iron bark	21"	" " " " " " " " " "	Significant
19	Red iron bark	28"	" " " " " " " " " "	Significant
20	Olive	11"	" " " " " " " " " "	Significant
21	Olive	6", 6", 6", 7"	" " " " " " " " " "	Significant
22	Plane tree	10"	Street tree on Henry Street.	
23	Red iron bark	25"	Proposed site improvements require removal.	Significant
24	Plane tree	31"	Street tree on Henry Street.	
25	Plane tree	22"	" " " " " " " " " "	
26	Red iron bark	13"	Proposed site improvements require removal.	Significant
27	Red iron bark	25"	Proposed site improvements require removal.	Significant
28	Monterey pine	24"	Proposed Landscape Plan shows removal. Pine is reaching end of life cycle. Tree may be replaced with a more suitable species.	None to moderate (pending proposed grading)
29	Monterey pine	36"	Proposed Landscape Plan shows removal. Pine is reaching end of life cycle. Tree may be replaced with a more suitable species. Measured 24" above grade.	" " " " " "
30	Purple leaf plum	13"	Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	---
31	<i>Ginkgo</i>	5"	Street tree on Shattuck Place.	None
32	Purple leaf plum	12"	Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	---

33	<i>Ginkgo</i>	8"	Street tree on Shattuck Place.	None
34	Purple leaf plum	16"	Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	---
35	<i>Ginkgo</i>	8"	Street tree on Shattuck Place.	None
36	Purple leaf plum	18"	Measured 24" above grade. Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	---
37	<i>Ginkgo</i>	11"	Street tree on Shattuck Place. Graffiti on lower trunk.	None
38	Purple leaf plum	9", 9", 6"	Street tree on Shattuck Place. Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	---
39	<i>Ginkgo</i>	10"	Street tree on Shattuck Place. Proposed Landscape Plan shows removal. See " <i>Trees That Merit Special Attention</i> " below.	TBD
40	<i>Ginkgo</i>	9"	Proposed Landscape Plan shows removal. See " <i>Trees That Merit Special Attention</i> " below.	TBD
41	Monterey pine	8", 24", 17"	Proposed site improvements require removal.	Significant
42	<i>Ginkgo biloba</i>	20"	Street tree on Shattuck Place. See " <i>Trees That Merit Special Attention</i> " below.	Minor
43	Purple leaf plum	20"	Proposed site improvements require removal.	Significant
44	<i>Ginkgo</i>	3.5"	Street tree on Shattuck Place	None
45	Purple leaf plum	6", 8", 6", 5", 9"	Proposed site improvements require removal.	Significant
46	<i>Ginkgo biloba</i>	10"	Street tree on Shattuck Place. See " <i>Trees That Merit Special Attention</i> " below.	None
47	Purple leaf plum	10"	Located on adjacent property (bank) to the south. See " <i>Trees That Merit Special Attention</i> " below.	Significant
48	<i>Prunus sp.</i>	7"	Located on adjacent property (bank) to the south. See " <i>Trees That Merit Special Attention</i> " below.	Significant
49	<i>Kumquat</i>	2", 3"	Located on adjacent property (bank) to the south.	Minor to moderate.
50	Monterey pine	22", 24", 23"	Proposed site improvements require removal.	Significant
51	Holly oak	8"	Proposed Landscape Plan shows removal. May be replaced with a healthier specimen.	None
52	Holly oak	16"	Proposed Landscape Plan shows removal. Due to poor condition, we recommend replacement with a more suitable species.	None
53	Undetermined species	6"	Dead	
54	Undetermined species	6"	Dead	
54	Undetermined species	6"	Dead	

## Trees that Merit Special Attention

*Tree #14, a 17" Plane tree; Tree #16, a 27" Plane tree; and Tree #42, a 20" Ginkgo*

The proposed expansion of the building envelope encroaches within the dripline of these noted street trees. Pending additional direction from the city, we recommend the following:

- Pruning of trees for clearance shall be conducted prior to construction activities to avoid damage.
- All pruning shall be conducted or supervised by the project arborist and/or Senior Urban Forester, and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

Modification or work performed on *any* existing street trees (pruning, removal, remedial work, etc.) shall be subject to the review and approval of the City of Berkeley's Forestry Division.

*Tree #39, a 10" Ginkgo biloba*

The Existing Landscape Plan shows removal. Tree exhibits a 3-prong branch union seven feet above grade that may appear awkward (possibly the cause for removal). Given the notorious slow growth rate of this species, it likely the tree was planted several years ago. Additionally, Ginkgos maintain an awkward structure for years until they mature. We suggest the efforts be placed to retain the tree and maintain the existing street tree pattern.

**We recommend preservation.**

*Tree #40, a 9" Ginkgo biloba*

The Existing Landscape Plan shows removal. The tree exhibits a poor structure based on the following observations:

- The central leader failed/fractured approximately 15 feet above grade. The open fracture has not compartmentalized and has never been properly severed. The absence of protective bark appears to have led to premature decay near the terminus of the leader.
- The tree exhibits a 45 degree lean.
- Previous branch failure 6 feet above grade; partially compartmentalized; dead wood inside cavity.
- Open cavity at 7" leader 7 feet above grade.

Given the disfigurement of the tree and noted ailments, **we recommend removal and replacement** with a similarly sized tree of the same species. Specify male gender. Removal subject to the review and approval by the City of Berkeley's Urban Forestry Division.

Per recent conversations with the City of Berkeley's Forestry Department, as part of the proposed site improvements, the tree shall be removed and replaced with a 24" box *Ginkgo biloba*.

*Tree #46, a 9" Ginkgo biloba*

The Existing Landscape Plan shows preservation. Although still young the tree appears to be in fair condition. Open cavities were noted at 12", 16" and 18" above grade. Replacement with a healthier species may be considered.

Tree well is approximately 30" x 39". If possible, we suggest the tree well be expanded (whether tree remains or is replaced).

Removal subject to the review and approval by the City of Berkeley's Urban Forestry Division

*Tree #47, a 10" Prunus cerasifera*

Tree is located on the adjacent bank property to the north. The Existing Landscape Plan shows removal due to the proximity of the proposed building envelope (less than two feet). The tree exhibits a poor branch union 4 feet above grade with included bark<sup>1</sup>. Tree exhibits a lean to the southeast due to competition with tree #48, a 7" *Prunus sp.*

Adjacent property owner should be notified prior to any site disturbances in this area. Removal may warrant mitigation measures at the adjacent bank property.

*Tree #48, a 7" Prunus sp.*

Tree is located on the adjacent bank property to the north. The Existing Landscape Plan shows removal due to the proximity of the proposed building envelope (less than two feet). The tree exhibits a codominant branch union 6 feet above grade.

Adjacent property owner should be notified prior to any site disturbances in this area. Removal may warrant mitigation measures at the adjacent bank property.

<sup>1</sup> Include bark: bark that becomes embedded in crotch between branch and trunk or between codominant stems or leaders, which causes a weak structure. Such conditions may increase the likelihood of failure.

## **General Tree Protection and Preservation Guidelines**

The objective of the tree protection and preservation guidelines is to provide the necessary information to ensure the continued health of existing trees within the proximity of construction and grading activities. Trees selected for preservation should be structurally sound and healthy so that they may survive any adverse impacts due to construction activity.

Given the likely scenario that all the existing trees on site will be removed, the preservation and protection of the existing trees primarily concerns the existing street trees.

As the project progresses, the following Tree Protection procedures must be exercised:

### **1.0 Tree Documentation**

- 1.1 Indicate removal or preservation of all existing trees on an appropriately sized plan. Trees shall be identified and numbered as tagged on site. Accurate dripline locations for trees in proximity to proposed site improvements should be shown on all relevant plans (as shown on the Tree Inventory Plan). See attached.

### **2.0 Tree Protection**

- 2.1 Given the proposed demolition along Henry Street, and close proximity of existing trees near the proposed building, we recommend Tree Protective fencing be erected at the tree wells of the following trees:

Henry Street: tree #11, tree #14, tree #16, tree #22, tree #25.

Shattuck Place: tree #39, tree #40, tree #42, tree #44, tree #46.

### **3.0 Grading**

- 3.1 The project arborist shall be on-site for all disturbances of grades within the dripline of existing trees to remain.
- 3.2 The existing grade shall be maintained within the Tree Protection Zone. Any changes in grade (cut or fill) shall be minimized, unless otherwise noted within the tree table, and if undertaken shall be supervised by the project arborist.
- 3.3 Root pruning shall be determined on an individual basis for each tree.
- 3.4 Supplemental water must be readily available during excavation activities if done during the summer months. Occasional spraying of the foliage with water to wash off dust will also be required.

3.5 If any cuts are made within the dripline of trees, roots shall be cut cleanly back to the excavated cut and covered with burlap or straw matting. This material shall be kept damp until the finished grade has been established.

#### **4.0 Pruning**

4.1 Trees to be pruned for clearance shall be done prior to construction activities to avoid damage.

4.2 All pruning shall be conducted by the project arborist and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

#### **5.0 Retaining Walls and Architectural Foundations**

5.1 Soil retention under the dripline of existing trees shall be sensitively designed to minimize root disturbance.

5.2 If walls or foundations are within close proximity to a protected tree's root crown, pier and grade beam construction is typically the best alternative to achieve minimal disturbance to the critical root zone. If a pier supported foundation wall is utilized, specify a flexible design to accommodate adjustments in pier locations to avoid potential conflicts with roots as they are encountered in the field. We understand an ideal retaining wall system has associated costs. The costs of such a wall should be germane to the budget of overall site improvements.

5.3 Continuous or spread footings under the dripline of trees should be avoided.

#### **6.0 Project Coordination**

6.1 Prior to the commencement of construction activities, the general contractor (and or team) shall meet with the project arborist to review Tree Protection Measures and the procedures mentioned within this report.

6.2 Beyond on-site supervision of recommended pruning, the project arborist shall make periodic inspections of the site (as applicable) during the length of construction to monitor trees and ensure Tree Protection Measures are in place.

## **Conclusion and Continuing Maintenance**

We believe that if the proper Tree Protection Measures and guidelines are addressed, the existing street trees along Henry Street and Shattuck Place shall continue to thrive or remain stable. As the project progresses, the City of Berkeley may mandate mitigation measures for trees that require removal or those that may be adversely impacted. Vigilant monitoring is the most effective course of action to ensure continued health and failure prevention. Once site improvements are complete, we recommend annual inspections be performed by a qualified arborist.

## **Assumptions and Limitations**

The survey provided by Lowney Architecture and produced by BKF engineers is assumed to be accurate.

InsideOut Design has no interest, either personal or monetary, on the outcome of the proposed development. All observations and recommendations made within this review are objective and to the best of author's ability. The findings in this report are dependent on the condition of the trees evaluated at the time of the site inspections. This assessment was limited to the visual examination of the trees listed within the report with no dissection, excavation, probing or coring. There is no guarantee, warranty, expressed or implied, that problems, deficiencies or failure may occur in the future. To live near trees, one must accept some degree of risk.





Please contact us with any questions you may have or if additional information is warranted.

Sincerely,  
INSIDEOUT DESIGN, INC

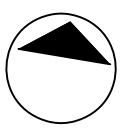
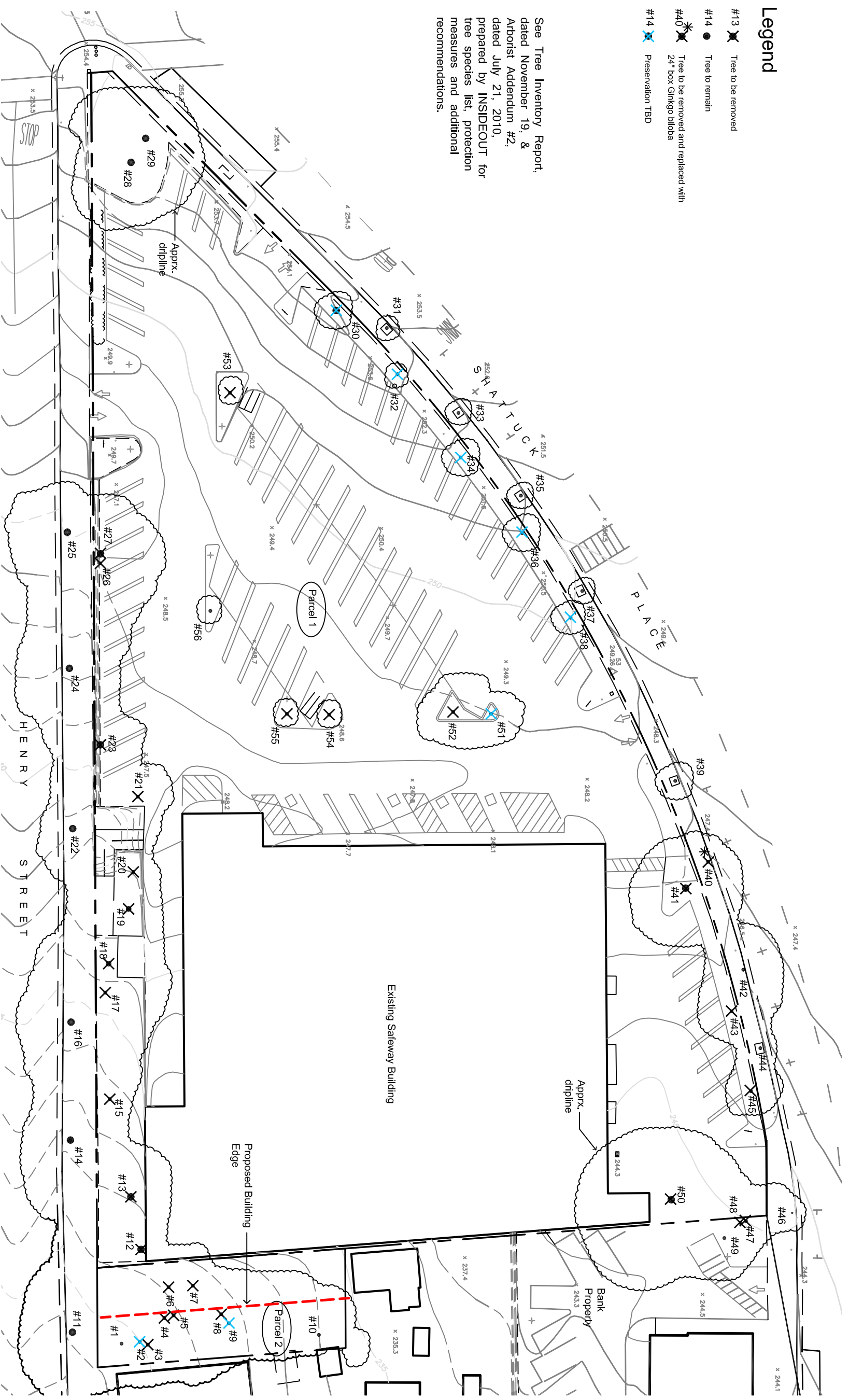


Pennell Phillips  
Certified Arborist, WE-6608A

# Legend

- #13  Tree to be removed
- #14  Tree to remain
- #40  Tree to be removed and replaced with 24" box Ginkgo biloba
- #14  Preservation TBD

See Tree Inventory Report, dated November 19, & Arborist Addendum #2, prepared by INSIDEOUT for tree species list, protection measures and additional recommendations.



1"=40'-0"



North 0 20 40

## Tree Inventory Plan

### Safeway

1425 Henry Street • Berkeley California

Addendum #2 07-21-10

## INSIDEOUT

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