



## McClenahan Consulting, LLC

Arboriculturists Since 1911

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June 10, 2011

### **Kikuchi and Associates**

Attention: **Mr. Steve Kikuchi**

730 Mill Street

Half Moon Bay, CA 94019

RE: **Saint Matthews Catholic Church**  
**One Notre Dame Avenue**  
**San Mateo, CA**

### **Assignment**

As requested, our firm performed a visual inspection of various trees to determine species, size, condition and provide Tree Preservation Guidelines for proposed gym construction. Landscape Unit Values are included per City of San Mateo requirements.

### **Summary**

This report is a consolidation of three previous reports provided by our firm dated February 26, 2007, July 20, 2008 and December 6, 2011. The tree numbers in this report align with the previously submitted reports and the Tree Evaluation table provided by Kikuchi and Associates. Proposed site improvements will require removal of 26 trees, including nine heritage trees (11, 17, 18, P11, 42, 43, 44, 54, 56 and 57). Any excavation to occur within designated *Tree Protection Zones (TPZ)* must be accomplished by hand digging. This report does not cover any impacts from landscape improvements or staging areas. A pre-construction meeting with a qualified arborist is recommended to insure Tree Preservation Guidelines are followed. The project arborist should be contacted at least *72 hours prior* to any work within the *Tree Protection Zone (TPZ)* of heritage trees. The total landscape unit value for trees to be removed is 276. The removal of all trees should be mitigated in accordance with the City of San Mateo's Municipal Code.

### **Methodology**

No root crown exploration, climbing or plant tissue analysis was performed as part of this survey.

In determining Tree Condition several factors have been considered which include:

- Rate of growth over several seasons;
- Structural decays or weaknesses;
- Presence of disease or insects; and
- Life expectancy.

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The following guide for interpretation of Tree Condition as related to Life Expectancy is submitted for your information.

|               |   |              |
|---------------|---|--------------|
| 0 - 5 Years   | = | Poor         |
| 5 - 10 Years  | = | Poor to Fair |
| 10 - 15 Years | = | Fair         |
| 15 - 20 Years | = | Fair to Good |
| 20 + Years    | = | Good         |

**Tree Description/Observation**

**1: Chinese elm (*Ulmus parvifolia*)**

**Diameter:** 15.5"

**Height:** 40' **Spread:** 35'

**Condition:** Fair to Good

**Location:** Corner of Parish center

**Observation:** Tree is dormant and exhibits uniform budding. Existing concrete slab is adjacent to trunk on west side. Tree grows to a westerly lean. The *TPZ* for this tree is 9-feet. Minor impacts are anticipated from proposed gym construction.

**Landscape Unit Value = 15**

**2: Chinese elm**

**Diameter:** 15.8"

**Height:** 40' **Spread:** 35'

**Condition:** Fair to Good

**Location:** Along entry walk to Parish Center

**Observation:** Tree is dormant and exhibits uniform budding. Existing concrete slab is adjacent to trunk on west side. The *TPZ* for this tree is 9-feet. Any excavation or grading within *TPZ* must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15**

**3: Chinese elm**

**Diameter:** 14.5"

**Height:** 40' **Spread:** 30'

**Condition:** Fair to Good

**Location:** Along entry walk to Parish Center

**Observation:** Tree is dormant and exhibits uniform budding. Existing concrete slab is adjacent to trunk on west side. The *TPZ* for this tree is 9-feet. Any excavation or grading within *TPZ* must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 14**

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**4: Chinese elm**

**Diameter:** 14.4"

**Height:** 35' **Spread:** 25'

**Condition:** Fair

**Location:** Lawn area at concrete walk

**Observation:** Tree is dormant and exhibits uniform budding. Canopy is one sided. Existing concrete slab is adjacent to trunk on west side. Proposed for removal.

**Landscape Unit Value = 14**

**5: Chinese elm**

**Diameter:** 15.0"

**Height:** 35' **Spread:** 30'

**Condition:** Fair to Good

**Location:** Lawn area at concrete walk

**Observation:** Tree is dormant and exhibits uniform budding. Grows to a westerly lean and is one sided. The *TPZ* for this tree is 9-feet. Any excavation or grading within *TPZ* must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15**

**6: Chinese elm**

**Diameter:** 16.3"

**Height:** 38' **Spread:** 35'

**Condition:** Fair to Good

**Location:** Lawn area at concrete walk

**Observation:** Tree is dormant and exhibits uniform budding. Grows to a slight southerly lean. Tree is located at edge of proposed gym. The *TPZ* for this tree is 9-feet. Any excavation or grading within *TPZ* must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 20**

**7: Deodar cedar (*Cedrus deodara*)**

**Diameter:** 13.6"

**Height:** 35' **Spread:** 22'

**Condition:** Fair to Good

**Location:** Lawn area at north side

**Observation:** Foliage is typical of the species and indicates normal tree vitality. Proposed for removal. Tree is located in proposed footprint.

**Landscape Unit Value = 13**

**8: Deodar cedar**

**Diameter:** 11.4, 10.7"

**Height:** 40' **Spread:** 24'

**Condition:** Fair

**Location:** Lawn area at north side

**Observation:** Foliage is slightly sparse. Bifurcation at 3-feet does not create a weakness at this time. Proposed for removal. Tree is located in proposed footprint.

**Landscape Unit Value = 14**

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**9: Coast redwood (*Sequoia sempervirens*)**

**Diameter:** 5.7"

**Height:** 18' **Spread:** 7'

**Condition:** Fair to Good

**Location:** Lawn area at north side

**Observation:** Foliage is typical for the species although sparse at top. Proposed for removal. Tree is located in building footprint.

**Landscape Unit Value = 5**

**10: California juniper (*Juniperus californica*)**

**Diameter:** 15.4"

**Height:** 30' **Spread:** 20'

**Condition:** Fair to Good

**Location:** Northwest corner of auditorium

**Observation:** Foliage is typical of the species and indicates normal tree vitality. However, canopy competes with adjacent palm for light. Proposed for removal.

**Landscape Unit Value = 8**

**11: Canary Island date palm (*Phoenix canariensis*)**

**Diameter:** 31.4"

**Height:** 30' **Spread:** 20'

**Condition:** Fair

**Location:** 4-feet west of auditorium

**Observation:** Fronds typical of the species with little space to grow on east side to 25-feet. Proposed for removal.

**Landscape Unit Value = 27**

**12: California juniper**

**Diameter:** 14.0"

**Height:** 25' **Spread:** 15'

**Condition:** Poor

**Location:** 1-foot west of auditorium

**Observation:** Canopy competes with adjacent palm and exhibits a moderate accumulation of deadwood. Grows to a west lean. Proposed for removal.

**Landscape Unit Value = 3**

**13: Port-Orford cedar (*Chamaecyparis lawsonii*)**

**Diameter:** 11.7, 10.9" Multi Trunk

**Height:** 38' **Spread:** 22'

**Condition:** Fair

**Location:** 6-feet west of auditorium

**Observation:** Foliage is typical of the species. Multi trunk growth habit creates an inherent structural defect. The *TPZ* is 10-feet. Any excavation or grading within *TPZ* must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15**

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**14: California bay laurel (*Umbellularia californica*)**

**Diameter:** 7.9, 5.3, 7.2, 8.2, 4.1, 5.5, 7.8" Multi Trunk

**Height:** 40' **Spread:** 30'

**Condition:** Fair to Good

**Location:** 6-feet west of auditorium

**Observation:** Foliage is typical of the species. Multi trunk growth habit creates an inherent structural defect. Minor mechanical wound is visible on east side of trunk. Proposed gym construction is outside the designated *TPZ* of 12-feet. Any excavation for proposed walkways must be accomplished by hand digging inside *TPZ*.

**Landscape Unit Value = 22**

**15: Port-Orford cedar**

**Diameter:** 23.0"

**Height:** 45' **Spread:** 30'

**Condition:** Fair to Good

**Location:** 6-feet west of auditorium

**Observation:** Foliar canopy is slightly sparse on north side. Any excavation or grading within *TPZ* of 12-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 21**

**16: Coast live oak (*Quercus agrifolia*)**

**Diameter:** 40.3"

**Height:** 50' **Spread:** 55'

**Condition:** Fair

**Location:** Southwest corner of auditorium

**Observation:** Foliage is typical of the species. Grows to a slight southwesterly lean. Existing buildings and concrete provide a poor root environment. Any excavation inside *TPZ* of 20-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 44**

**17: American sweet gum (*Liquidambar styraciflua*)**

**Diameter:** 17.1"

**Height:** 55' **Spread:** 35'

**Condition:** Fair

**Location:** Lawn area

**Observation:** Tree is dormant and exhibits uniform budding. Proposed for removal.

**Landscape Unit Value = 10**

**18: American sweet gum**

**Diameter:** 21.5"

**Height:** 55' **Spread:** 35'

**Condition:** Fair

**Location:** Lawn area

**Observation:** Tree is dormant and exhibits uniform budding. Proposed for removal.

**Landscape Unit Value = 13**

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**19: Coast live oak**

**Diameter:** 38.6"

**Height:** 55' **Spread:** 55'

**Condition:** Fair

**Location:** Lawn area east of entry walk

**Observation:** Foliage is slightly chlorotic. Grows to a slight southwesterly lean. Mottled bark on low trunk appears to be the result of old western sycamore borer damage.

**Recommend a root collar inspection** to determine degree of potential decay. The *TPZ* for this tree is 17 feet. **Any excavation or grading must be accomplished by hand digging inside *TPZ*.**

**Landscape Unit Value = 43**

**20: Locust**

**Diameter:** 11.6"

**Height:** 30' **Spread:** 30'

**Condition:** Fair

**Location:** Street tree along El Camino

**Observation:** Tree is dormant and exhibits uniform budding with a minor accumulation of deadwood. No new impacts are anticipated from proposed gym construction.

**Landscape Unit Value = 3**

**21: Locust**

**Diameter:** 11.9"

**Height:** 35' **Spread:** 35'

**Condition:** Fair

**Location:** Street tree along El Camino

**Observation:** Tree is dormant and exhibits uniform budding with a minor accumulation of deadwood. Any grading or excavation within *TPZ* of 6-feet must be accomplished by hand digging. a qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 3**

**22: Locust**

**Diameter:** 13.0"

**Height:** 35' **Spread:** 30'

**Condition:** Fair

**Location:** Street tree along El Camino

**Observation:** Tree is dormant and exhibits uniform budding with a minor accumulation of deadwood. Site access for construction equipment and materials may encroach within *TPZ* of 6-feet.

**Landscape Unit Value = 5**

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**23: Locust**

**Diameter:** 13.5"

**Height:** 35' **Spread:** 30'

**Condition:** Fair

**Location:** Street tree along El Camino

**Observation:** Tree is dormant and exhibits uniform budding with a minor accumulation of deadwood. Site access for construction equipment and materials may encroach within *TPZ* of 6-feet.

**Landscape Unit Value = 4**

**24: Locust**

**Diameter:** 10.6"

**Height:** 30' **Spread:** 20'

**Condition:** Fair

**Location:** Street tree along El Camino

**Observation:** Tree is dormant and exhibits uniform budding with a minor accumulation of deadwood. Site access for construction equipment and materials may encroach within *TPZ* of 6-feet. Any grading or excavation within *TPZ* must be accomplished by hand digging.

**Landscape Unit Value = 3**

**P1: Monkey puzzle (*Araucaria araucana*)**

**Diameter:** 42.7"

**Height:** 65' **Spread:** 30'

**Condition:** 55 - fair

**Location:** Western corner of lot at El Camino entrance.

**Observation:** Codominant removed years ago, trunk is disfigured. Good vigor. Any grading or excavation within *TPZ* of 20-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value =53**

**P2: Cork oak (*Quercus suber*)**

**Diameter:** 31.9"

**Height:** 45' **Spread:** 35'

**Condition:** 75 - good

**Location:** Western corner of lot at El Camino entrance.

**Observation:** Good vigor and form, 2 feet from building breezeway. Any grading or excavation within *TPZ* of 15-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value =54**

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**P3: Incense cedar (*Calocedrus decurrens*)**

**Diameter:** 16.3"

**Height:** 35'                   **Spread:** 20'

**Condition:** 40 - poor

**Location:** Southern corner of building

**Observation:** Foliage is thin (over thinned), poor vigor. Any grading or excavation within *TPZ* of 9-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value =9**

**P4: Hollywood Juniper (*Juniperus torulosa*)**

**Diameter:** 17.1"

**Height:** 45'                   **Spread:** 20'

**Condition:** 50 - good

**Location:** Southern corner of building

**Observation:** Suppressed by #P5, poor vigor. Any grading or excavation within *TPZ* of 9-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value =12**

**P5: Coast live oak (*Quercus agrifolia*)**

**Diameter:** 37.9"

**Height:** 50'                   **Spread:** 60'

**Condition:** 70 - good

**Location:** Southern corner, rear of building

**Observation:** Excellent root flare, good crotch formations, good vigor. The entire root zone of this tree covered with pavement. Any grading or excavation within *TPZ* of 16-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value =60**

**P6: Deodar cedar (*Cedrus deodara*)**

**Diameter:** 31.2"

**Height:** 70'                   **Spread:** 50'

**Condition:** 65 - fair

**Location:** Southern corner, rear of building

**Observation:** Topped in past at 40 feet. Multi leader from that point. Good vigor. Any grading or excavation within *TPZ* of 15-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 37**

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**P7: Italian stone pine (*Pinus pinea*)**

**Diameter:** 53.8"

**Height:** 40'                   **Spread:** 90'

**Condition:** 70 - good

**Location:** Southern corner of building, in parking lot.

**Observation:** Well maintained, vigor is fair, form is good for species. Seventy percent of the root crown is covered with asphalt. Any grading or excavation within *TPZ* of 22-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 71**

**P8: Italian stone pine**

**Diameter:** 41.8"

**Height:** 35'                   **Spread:** 50'

**Condition:** 55 - fair

**Location:** Southern corner of building, in parking lot.

**Observation:** Foliage is thin, dead areas on trunk. Scars are solid but have no bark. Any grading or excavation within *TPZ* of 20-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 32**

**P9: Deodar cedar**

**Diameter:** 30.3"

**Height:** 45'                   **Spread:** 40'

**Condition:** 60 - fair

**Location:** Rear of building.

**Observation:** Topped in past at 40 feet. Well maintained recently. Any grading or excavation within *TPZ* of 15-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 33**

**P10: Deodar cedar**

**Diameter:** 36.9"

**Height:** 60'                   **Spread:** 50'

**Condition:** 60 - fair

**Location:** Rear of building

**Observation:** Topped in past at 40 feet. Multi leader from that point. Good vigor, fair form. Any grading or excavation within *TPZ* of 16-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 50**

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**P11: Italian stone pine**

**Diameter:** 22.3"

**Height:** 30'                   **Spread:** 35'

**Condition:** 65 - fair

**Location:** In rear parking lot.

**Observation:** Planted in a 15' by 15' soil area, remainder of root zone covered with asphalt. Vigor is poor to fair. Proposed for removal.

**Landscape Unit Value = 25**

**P12: Italian stone pine**

**Diameter:** 46.3"

**Height:** 35'                   **Spread:** 65'

**Condition:** 60 - fair

**Location:** In rear parking lot.

**Observation:** Foliage is thin, dead areas on trunk. Scars are solid but have no bark. Any grading or excavation within *TPZ* of 20-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 49**

**Notre Dame Alley Parking**

**P13: European elm (*Ulmus procera*)**

**Diameter:** 35.9"

**Height:** 55'                   **Spread:** 50'

**Condition:** 60 - fair

**Location:** In lot north of church.

**Observation:** Good vigor and fair form. Heavy southern limb. Any grading or excavation within *TPZ* of 15-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 12**

**P14: European elm**

**Diameter:** 40.4"

**Height:** 70'                   **Spread:** 60'

**Condition:** 65 - fair

**Location:** In lot north of church.

**Observation:** Good vigor and fair form. Aphids on leaves. Any grading or excavation within *TPZ* of 20-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 14**

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**P15: European elm**

**Diameter:** 37.8"

**Height:** 55'                   **Spread:** 50'

**Condition:** 60 - fair

**Location:** In lot north of church.

**Observation:** Good vigor and fair form. Top is thinning. Any grading or excavation within *TPZ* of 18-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 14**

**P16: Black locust (*Robinia pseudoacacia*)**

**Diameter:** 21.2"

**Height:** 45'                   **Spread:** 35'

**Condition:** 60 - fair

**Location:** At southern edge of lot south of buildings.

**Observation:** Leans o the east over lot. Large limb removed at 6 feet. Fair vigor. Any grading or excavation within *TPZ* of 10-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15**

**Trees Near Southernmost Building**

**P17: Italian Cypress (*Cupressus sempervirens*)**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P18: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P19: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

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**P20: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P21: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P22: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P23: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor poor to fair form.

**Landscape Unit Value = 2**

**P24: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P25: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                    **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

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**P26: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P27: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P28: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P29: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value =2**

**P30: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P31: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

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**P32: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P33: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P34: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P35: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P36: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P37: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

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**P38: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P39: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P40: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**P41: Italian Cypress**

**Diameter:** 7.0 est"

**Height:** 20'                   **Spread:** 8'

**Condition:** 55 - fair

**Location:** At southern edge of parking near southern building.

**Observation:** In a row of 23 trees. Fair vigor, poor to fair form.

**Landscape Unit Value = 2**

**42: American sweet gum (*Liquidambar styraciflua*)**

**Diameter:** 24.9"

**Height:** 55'                   **Spread:** 35'

**Condition:** Fair to Good

**Location:** Lawn area north of church

**Observation:** Scaffold limbs exhibit narrow attachments. Extensive surface rooting observed throughout lawn area. Proposed for removal.

**Landscape Unit Value = 15 (Heritage Tree)**

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**43: American sweet gum**

**Diameter:** 16.5"

**Height:** 45' **Spread:** 24'

**Condition:** Fair

**Location:** Lawn area north of church

**Observation:** Narrow crown spread is due to competition with two larger sweet gums. Scaffold limbs exhibit narrow attachments. Extensive surface rooting observed throughout lawn area. Proposed for removal.

**Landscape Unit Value = 9 (Heritage Tree)**

**44: American sweet gum**

**Diameter:** 24.1"

**Height:** 50' **Spread:** 28'

**Condition:** Fair to Good

**Location:** Lawn area north of church

**Observation:** Scaffold limbs exhibit narrow attachments. Extensive surface rooting observed throughout lawn area. Proposed for removal.

**Landscape Unit Value = 15 (Heritage Tree)**

**45: Pittosporum (*Pittosporum undulatum*)**

**Diameter:** 9.8" Low Branching

**Height:** 20' **Spread:** 22'

**Condition:** Fair

**Location:** South end of existing parking lot

**Observation:** Minor interior deadwood observed in crown. Previously topped. Old wounds on scaffold limbs and stem. Trunk divides into five stems at 4-feet. Proposed for removal.

**Landscape Unit Value = 6**

**46: Pittosporum**

**Diameter:** 15.8"

**Height:** 35' **Spread:** 35'

**Condition:** Fair

**Location:** South end of existing parking lot

**Observation:** Scaffold limbs exhibit narrow attachments. Buttress roots observed growing under sidewalks and stone wall. Proposed for removal.

**Landscape Unit Value = 9**

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**47: Chinese elm (*Ulmus parvifolia*)**

**Diameter:** 14.2"

**Height:** 30' **Spread:** 30'

**Condition:** Fair

**Location:** South end of existing parking lot

**Observation:** Upper crown is slightly sparse over parking lot. Concrete and parking lot create a poor root environment, encompassing more than 75 percent of lateral root area. Leans toward parking lot. Any grading or excavation within *TPZ* of 8-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 9**

**48: Chinese elm**

**Diameter:** 6.3"

**Height:** 18' **Spread:** 15'

**Condition:** Poor to Fair

**Location:** East end of parking lot

**Observation:** Crown is one sided and leans away from adjacent elm. A large buttress root was severed to repair adjacent concrete slab (encompasses 50 percent of root environment). Proposed for removal.

**Landscape Unit Value = 3**

**49: Chinese elm**

**Diameter:** 4.2, 3.7" Multi Trunk

**Height:** 18' **Spread:** 15'

**Condition:** Poor to Fair

**Location:** East end of parking lot

**Observation:** Multi trunk growth habit creates an inherent structural weakness. Moderate accumulation of deadwood. Proposed for removal.

**Landscape Unit Value = 3**

**50: Chinese elm**

**Diameter:** 14.5'

**Height:** 30' **Spread:** 35'

**Condition:** Fair

**Location:** East end of parking lot

**Observation:** Partially dormant at time of inspection. Concrete has been cut away from root flare. Grows to a slight northerly lean. Proposed for removal.

**Landscape Unit Value = 10**

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**51: Chinese elm**

**Diameter:** 14.6"

**Height:** 35' **Spread:** 35'

**Condition:** Poor to Fair

**Location:** Lawn at El Camino entry

**Observation:** Grows to a southerly lean away from larger elm. Root crown is upheaved on north side. Recommend removal. Proposed for removal.

**Landscape Unit Value = 7**

**52: Chinese elm**

**Diameter:** 17.0"

**Height:** 40' **Spread:** 35'

**Condition:** Fair

**Location:** Lawn at El Camino entry

**Observation:** Grows to slight southwesterly lean. Crown is one sided. Buttress and surface roots appear to be lifting turf on northeast side. Any grading or excavation within *TPZ* of 9-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15 (Heritage Tree)**

**53: Chinese elm**

**Diameter:** 16.2"

**Height:** 40' **Spread:** 50'

**Condition:** Fair

**Location:** Lawn at El Camino entry

**Observation:** Partially dormant at time of inspection. Concrete has been cut away from root flare. Buttress roots lifting turf on east side. Crown overlaps with adjacent elms. Any grading or excavation within *TPZ* of 9-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 14 (Heritage Tree)**

**54: English laurel (*Prunus laurocerasus*)**

**Diameter:** 9.5, 8.6, 7.8, 6, 5.6,.1" Multi Trunk

**Height:** 20' **Spread:** 35'

**Condition:** Fair

**Location:** Northeast end of existing parking

**Observation:** Mature old shrub that has attained large size. Multi trunk growth habit creates an inherent structural weakness. Small pockets of decay visible at low trunk. Proposed for removal.

**Landscape Unit Value = 20**

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**55: Pittosporum**

**Diameter:** 15.5"

**Height:** 24' **Spread:** 24'

**Condition:** Poor to Fair

**Location:** Northeast end of existing parking

**Observation:** Crown exhibits a moderate accumulation of deadwood. An old vertical cavity is visible from grade to 3-feet. Proposed for removal.

**Landscape Unit Value = 8**

**56: Southern magnolia (*Magnolia grandiflora*)**

**Diameter:** 17.2"

**Height:** 30' **Spread:** 25'

**Condition:** Poor to Fair

**Location:** Lawn at El Camino entry

**Observation:** Crown exhibits minor dieback and is one sided. Bleeding observed on scaffold limb. Surface rooting observed. Proposed for removal.

**Landscape Unit Value = 9 (Heritage Tree)**

**57: Southern magnolia**

**Diameter:** 31.9"

**Height:** 50' **Spread:** 50'

**Condition:** Poor to Fair

**Location:** Lawn at El Camino entry

**Observation:** Crown exhibits minor dieback. Numerous old pruning wounds exhibit varied degrees of decay. Scaffold limbs exhibit weak attachments. Bleeding observed on scaffold limb. Surface rooting observed. Proposed for removal.

**Landscape Unit Value = 18 (Heritage Tree)**

**58: Japanese maple (*Acer palmatum* 'Sango Kaku')**

**Diameter:** 4.3" Low Branching

**Height:** 15' **Spread:** 12'

**Condition:** Good

**Location:** North of existing parking

**Observation:** Scaffold limbs exhibit narrow attachments. Coral bark maple. Proposed for removal.

**Landscape Unit Value = 5**

**59: Carolina cherry (*Prunus caroliniana*)**

**Diameter:** 8.2" Low Branching

**Height:** 20' **Spread:** 18'

**Condition:** Poor

**Location:** North of existing parking

**Observation:** Low branching growth habit creates an inherent structural weakness. Secondary scaffold limb is split and remains attached. Proposed for removal.

**Landscape Unit Value = 5**

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### **60: Privet (*Ligustrum lucidum*)**

**Diameter:** 5.1"

**Height:** 18' **Spread:** 9'

**Condition:** Fair

**Location:** North of existing parking

**Observation:** Sucker at root flare is 3-inches. Surface roots visible to 3-feet. Proposed for removal.

**Landscape Unit Value = 2**

### **61: Pittosporum**

**Diameter:** 14.8, 10.2, 8.5" Multi Trunk

**Height:** 35' **Spread:** 28'

**Condition:** Poor to Fair

**Location:** North of existing parking

**Observation:** Crown exhibits a moderate accumulation of deadwood. Multi trunk growth habit creates an inherent structural defect. Secondary stem is rubbing on another stem. Crown lacks vigor. Any grading or excavation within *TPZ* of 12-feet must be accomplished by hand digging. A qualified arborist must supervise any cutting of roots greater than one inch in diameter.

**Landscape Unit Value = 15 (Heritage Tree due to multi trunk growth habit)**

## **TREE PRESERVATION GUIDELINES**

### **Tree Preservation and Protection Plan**

In providing recommendations for tree preservation, we recognize that injury to trees as a result of construction include mechanical injuries to trunks, roots and branches, and injury as a result of changes that occur in the growing environment.

To minimize these injuries, we recommend grading operations encroach no closer than five times the trunk diameter, (i.e. 30" diameter tree x 5=150" distance). At this distance, buttress/anchoring roots would be preserved and minimal injury to the functional root area would be anticipated. Should encroachment within the area become necessary, hand digging is **mandatory**.

### **Barricades**

Prior to initiation of construction activity, temporary barricades should be installed around all trees in the construction area. Six-foot high, chain link fences are to be mounted on steel posts, driven 2 feet into the ground, at no more than 10-foot spacing. The fences shall enclose the entire area under the drip line of the trees or as close to the drip line area as practical. These barricades will be placed around individual trees and/or groups of trees as the existing environment dictates.

The temporary barricades will serve to protect trunks, roots and branches from mechanical injuries, will inhibit stockpiling of construction materials or debris within the sensitive 'drip line' areas and will prevent soil compaction from increased vehicular/pedestrian traffic. No storage of material, topsoil, vehicles or equipment shall be permitted within the tree enclosure area. The ground around the tree canopy shall not

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### **Barricades continued**

be altered. These barricades should remain in place until final inspection of the building permit, except for work specifically required in the approved plans to be done under the trees to be protected. Designated areas beyond the drip lines of any trees should be provided for construction materials and onsite parking.

### **Root Pruning** (if necessary)

During and upon completion of any trenching/grading operation within a tree's drip line, should any roots greater than one inch (1") in diameter be damaged, broken or severed, root pruning to include flush cutting and sealing of exposed roots should be accomplished under the supervision of a qualified Arborist to minimize root deterioration beyond the soil line ***within twenty-four (24) hours.***

### **Pruning**

Pruning of the foliar canopies to include removal of deadwood is recommended and should be initiated prior to construction operations. Such pruning will provide any necessary construction clearance, will lessen the likelihood or potential for limb breakage, reduce 'windsail' effect and provide an environment suitable for healthy and vigorous growth.

### **Fertilization**

A program of fertilization by means of deep root soil injection is recommended with applications in spring and summer for those trees to be impacted by construction.

Such fertilization will serve to stimulate feeder root development, offset shock/stress as related to construction and/or environmental factors, encourage vigor, alleviate soil compaction and compensate for any encroachment of natural feeding root areas.

Inception of this fertilizing program is recommended prior to the initiation of construction activity.

### **Irrigation**

A supplemental irrigation program is recommended and should be accomplished at regular three to four week intervals during the period of May 1<sup>st</sup> through October 31<sup>st</sup>. Irrigation is to be applied at or about the 'drip line' in an amount sufficient to supply approximately fifteen (15) gallons of water for each inch in trunk diameter.

Irrigation can be provided by means of a soil needle, 'soaker' or permeable hose. When using 'soaker' or permeable hoses, water is to be run at low pressure, avoiding runoff/puddling, allowing the needed moisture to penetrate the soil to feeder root depths.

### **Mulch**

Mulching with wood chips (maximum depth 3") within tree environments (outer foliar perimeter) will lessen moisture evaporation from soil, protect and encourage adventitious roots and minimize possible soil compaction.

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**Inspection**

Periodic inspections by the **Site Arborist** are recommended during construction activities, particularly as trees are impacted by trenching/grading operations.

Inspections at approximate four (4) week intervals would be sufficient to assess and monitor the effectiveness of the Tree Preservation Plan and to provide recommendations for any additional care or treatment.

All written material appearing herein constitutes original and unpublished work of the Arborist and may not be duplicated, used or disclosed without written consent of the Arborist.

We thank you for this opportunity to be of assistance in your tree preservation concerns.

Should you have any questions, or if we may be of further assistance in these concerns, kindly contact our office at any time.

Very truly yours,

**McCLENAHAN CONSULTING, LLC**



By: **John H. McClenahan**  
ISA Board Certified Master Arborist, WE-1476B  
member, American Society of Consulting Arborists

JHMc: pm

## ARBORIST DISCLOSURE STATEMENT

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 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 a 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, landlord-tenant matters, etc. Arborists cannot take such issues into account unless complete and accurate information is given to the arborist. The person hiring the arborist accepts full responsibility for authorizing the recommended treatment or remedial measures.

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



Arborist: John H. McClenahan  
Date: June 10, 2011