



**CITY OF LODI
COUNCIL COMMUNICATION**

AGENDA TITLE: Approve Plans and Specifications and Authorize Advertisement for Bids for the Phased Removal and Replacement of 39 Raywood Ash Trees on Lower Sacramento Road between Elm Street and Tejon Street

MEETING DATE: February 16, 2011

PREPARED BY: Public Works Director

RECOMMENDED ACTION: Approve plans and specifications and authorize advertisement for bids for the phased removal and replacement of 39 Raywood Ash trees on Lower Sacramento Road between Elm Street and Tejon Street.

BACKGROUND INFORMATION: Trees are a benefit to the urban environment. As a result, the City removes trees only when they become a significant liability to the infrastructure or compromise public safety.

The existing Raywood Ash trees (Exhibit A), planted in approximately 1988, have extremely invasive root systems. They have caused extensive damage to the surfaces on Lower Sacramento Road, the adjacent frontage road, and are threatening a deep wastewater main in Lower Sacramento Road (see attached photos, Exhibit B). Because of the species' invasive nature, Raywood Ash is no longer an approved species for City planting.

June 2, 2010 Council Meeting:

City Council directed staff to evaluate alternative methods and to coordinate this effort with Tree Lodi. Through consultation with Tree Lodi, staff evaluated various alternatives, including the installation of root barriers and root surgery, tree removal, and phased removal of the trees. It was recommended that removal was the only way to permanently deal with the invasive nature of these trees and avoid future damage to City infrastructure.

In the attached letter (Exhibit C), Tree Lodi agrees with staff's recommendation and adds, "Raywood Ash trees are too large for the area in which they are located." Tree Lodi suggested a phased removal and planting program. This involved removing and replacing about every other tree at first, followed by removing and replacing the others a year or two later.

November 16, 2010 Shirtsleeve Meeting:

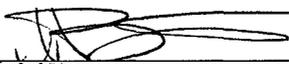
The City Council met in the field to view the damage firsthand and discuss the replacement further.

November 17, 2010 Regular Council Meeting:

Council directed staff to modify the removal plan to further reduce the visual impacts associated with the phased tree removal.

Staff again consulted with Tree Lodi, reflected in the attached memorandum (Exhibit D), regarding the planting and removal schedule and tree types and recommends the following revised plan (Exhibit E):

APPROVED: _____


Konradt Bartlam, City Manager

Phase 1:

Plant alternating trees (*Shumard red oak* "Quercus shumardii" and *Mondell Pine* "Pinus ularica") between the existing Raywood Ash trees. The new trees would be placed on forty-foot centers, which will not disturb the existing trees. Portions of hedge will have to be removed for the new trees, but this will give the new trees a chance to get established. This is proposed to take place as soon as possible, should Council approve the plan. Modifications to the existing irrigation system will be made.

Phase 2:

Initiate actual removal of the Raywood Ash trees in December 2012. After removal of the trees, their locations would be filled with bush-type Podocarpus gracilior "Fern Cloud." This varies from the first proposal which was a tree form. This type will provide a screening affect of Lower Sacramento Road. Exhibit E reflects the planting configuration for a typical section of the proposed project. The entire plan will be available at the Public Works Department.

Staff recommends Council approve the plans and specifications and authorize advertisement for bids for the phased removal and replacement of 39 Raywood Ash trees on Lower Sacramento Road. Plans and specifications will be completed following Council action and will be on file in the Public Works Department in approximately 14 days.

FISCAL IMPACT:

Removal will reduce or eliminate future damage to pavement and underground utilities from the invasive roots of these trees, saving thousands of dollars.

FUNDING AVAILABLE:

Funding for this project will be coming from Streets and Drainage (320013) and Wastewater (171013). A request for appropriation of funds will be made at contract award.

Project Estimate: \$30,000



F. Wally Sandelin
Public Work Director

Prepared by Curtis Juran, Street and Drainage Superintendent

FWS/CJJlpmf

Attachments

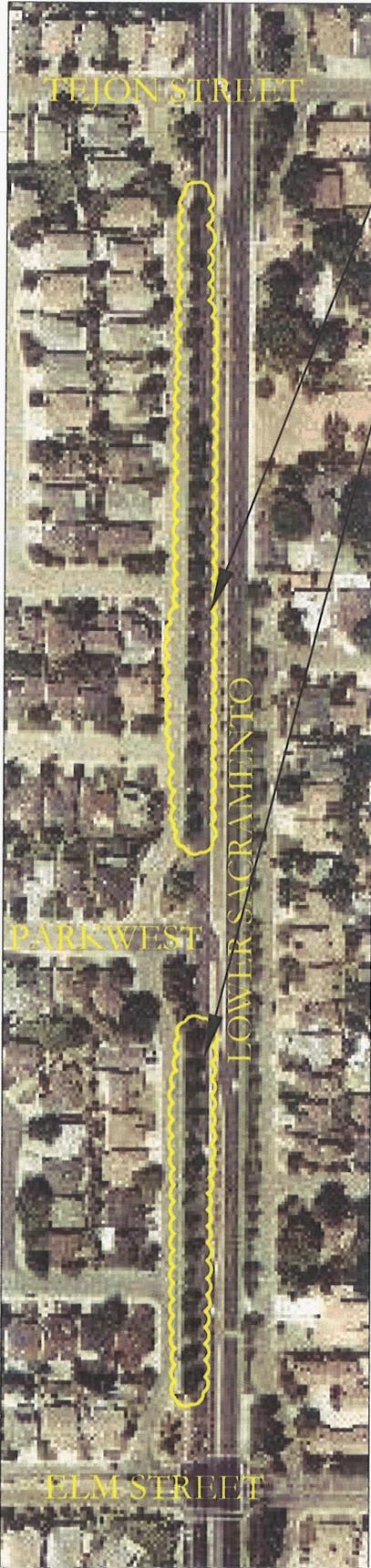
cc: Charlie Swimley, Deputy Public Works Director - Utilities
Curtis Juran, Streets and Drainage Superintendent



CITY OF LODI

PUBLIC WORKS DEPARTMENT

LOWER SACRAMENTO FRONTAGE ROAD TREE REMOVAL



THIRTY-NINE (39) RAYWOOD ASH TREES TO BE REMOVED

DIAMETER OF TREES TO BE
REMOVED (IN INCHES)

- 13
- 10
- 13
- 10
- 10
- 11
- 10
- 7
- 8
- 19
- 16
- 14
- 13
- 12
- 15
- 14
- 8
- 13
- 11
- 11
- 10
- 14
- 10
- 12
- 16
- 18
- 14
- 12
- 13
- 10
- 14
- 12
- 13
- 18
- 12
- 14
- 15
- 16
- 15



CITY OF LODI

PUBLIC WORKS DEPARTMENT

LOWER SACRAMENTO ROAD
RAYWOOD ASH TREES
STREET VIEW OF TREES TO BE REMOVED



STREET VIEW OF TREES TO BE REMOVED.

EXHIBIT B



CITY OF LODI

PUBLIC WORKS DEPARTMENT

LOWER SACRAMENTO ROAD RAYWOOD ASH TREES DAMAGE



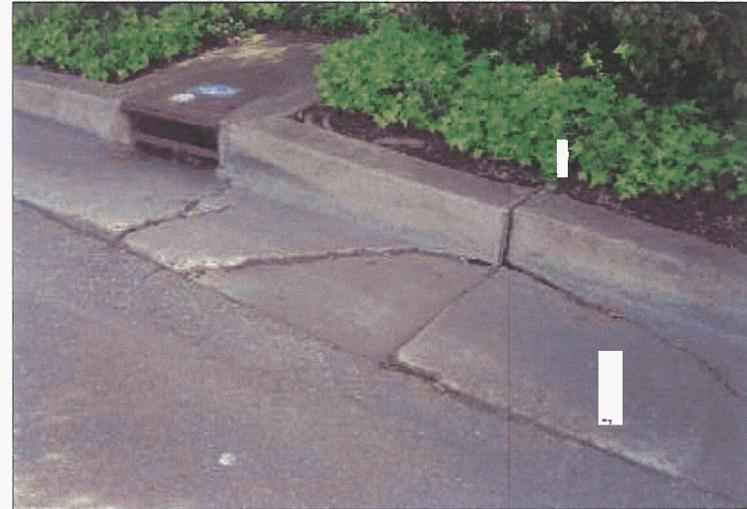
Damage to street, curb and gutter.



CITY OF LODI

PUBLIC WORKS DEPARTMENT

LOWER SACRAMENTO ROAD RAYWOOD ASH TREES DAMAGE



Damage to street, curb and gutter.



MEMORANDUM

TO: Lodi City Council:

SUBJECT: Raywood Ash **Tree** Removal on Lower Sacramento **Road**

Gordon Schmierer
President
Steve Dutra
vice President
Joyce Harmon
Secretary
Ron Marien
Treasurer

GROUP MEETING: The following representatives met September 13, 2010, to discuss **remedies** for **the infrastructure** damage **caused** by ash trees:

- Charlie Swimley, City of Lodi, Deputy Public Works Director;
- Kurt Juran, City of Lodi, Public Works Dept., Street Superintendent;
- Steve Dutra, City of Lodi, Parks Superintendent, Parks & Recreation Dept.;
- William Hobson, **Tree Lodi** Director

Directors
Richard Blackston
Andi Kutlik
Bill Hobson
Bruce Schweigerdt

LOCATION: The problem **trees** are **along** the west side planting area of Lower Sacramento **Road** **between** Tejon Street and Elm Street

Stewards
Mike Butcher
Darrell Drummond
Gerry Fish
Ray Fye
Derric Juano
Esther Milnes
Nancy Nakamura
Robert Raingruber
Vern Weigum

PROBLEM. The Raywood **Ash** **trees** are too large for the area in which they are located. Their large, shallow and vigorous root **systems** have caused curb, gutter, asphalt and sewer damage. As these **trees** enlarge, they will continue to cause **infrastructure** damage.

RECOMMENDATIONS: Tree Lodi recommends removing about half the trees in the first year, perhaps the **most** damaging ones first, then replant about half. Wait one or two **years** to establish the new **trees**, then remove the remaining **trees** and replant. **This** removal and replanting sequence would minimize 'removal shock' **and** the loss of **screen** for the neighborhood.

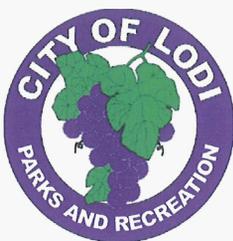
REPLACEMENT TREES: The recommended replacement tree size is 24-inch **box** or 15 gallon **container**. The following **types** of **trees** are recommended for **this area**: 1. Fern Pine, Podocarpus gracilor, an evergreen, 2. Bowhall Maple, Acer rubrum 'Bowhall', 15 ft. wide, deciduous, 3. Parkway Maple, Acer platanoide 'Parkway', 25 ft. wide, deciduous

We at TREE LODI thank you for the opportunity to share **this** information with you.

Gordon Schmierer, President

Tree Lodi, Inc., 2715 W. Kettleman Lane, Ste 203-126, Lodi, CA 95242

All gifts are tax deductible Tree Lodi is a 501 (c)(3) organization. Tax ID #2810577



Lodi Parks and Recreation Department
The Benefits are Endless

MEMORANDUM

To: Curt Juran, Street and Drainage Superintendent
From: Steve Dutra, Park Superintendent
Date: February 1, 2011
Subject: Tree removal/replacement

You had requested some follow-up from Tree Lodi related to your recommendation of Quercus ilex, Holly Oak and Quercus coccinea, Scarlet Oak as Raywood Ash replacements.

Tree Lodi members have provided me the following comments related to your recommended specie selections:

Holly Oaks tend to have heavy acorn crops; female trees have a heavy catkin load and specie tend to receive molds and diseases.

The area in question can accommodate more excurrent specie vs. more decurrent specie such as Holly Oak.

Scarlet Oak tend to be slow growing, may experience soil problems related to this specific site and may not perform well overall.

Tree Lodi does support your recommendation of removal schedule and numbers removed pre cycle. I.e. some removed this winter, inter planted this spring

Tree Lodi again recommends the Podocarpus gracilior, Fern Pine and the Acer rubrum 'bowhall'. Additional the following trees should be considered as replacement species:

Acer rubrum 'october glory' – most Red Maples will handle said soil types (poorer soil conditions). An example of this tree is located along the west wall of the stadium 12 building. Excellent branch structure, excellent fall color, low root damage rating and easily trained for vehicle traffic lane areas.

Quercus shumardii 'shumard red oak' – well behaved tree, excellent fall color, and low to moderate root damage potential. Examples of this specie can be found at Blakely Park.

No disease, insect, surface root or abiotic disorders have been seen on either of these recommended species. Both species have been at these listed locations for five to seven years.

Additionally, regarding an evergreen tree recommendation Tree Lodi supports two pine species. Pinus eldarica "Mondell Pine" or Pinus brutia "Calabrian Pine"



UFEI Urban Forest Ecosystems Institute

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FULL TREE RECORD

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MONDELL PINE
Pinus eldarica

General Notes

Drought resistant. SelecTree lists no cultivars of *eldarica*.

[List all Pinaceae | Pinus](#)

Family: Pinaceae

California Native: No

Habit: Erect or Spreading. Evergreen foliage.

Sunset Zones: 4 - 24

USDA Hardiness Zones: 6 - 8

Exposure: Full Sun to Partial Shade

Water Needs: Moist to Dry Soil. Drought tolerant.

Soil Type: Clay, Loam or Sand

Soil pH: Highly Acidic to Highly Alkaline

Seaside Tolerance: Good in Moderate Zone

Height: 65 feet

Growth Rate: 36 Inches per Season

Shape: Conical, Erect or Spreading and covers an Extensive Area.

Longevity: 50 to 150 years

Leaves: Needle Dark Green.

Flowers: Inconspicuous

Fruit: Brown, Yellow or Mostly Green Cone, Large (1.50 - 3.00 inches) , fruiting in Winter.

Bark: Dark Gray or Light Gray, Furrowed

Pest & Disease: Resistant to Texas Root Rot and

ATTRIBUTE INFO

- » Attributes Defined
- » Add or Edit Attributes

YOU SEARCHED FOR:*

(60) matching trees

"Based on last search."

rightTree rightPlace

Utilities,
Fire safety,
Root
Damage?





Verticillium. Susceptible to Aphids .
Shading Capacity: Rated as Dense in Leaf
Branch Strength: Rated as Medium Strong
Litter Issue: Dry Fruit
Root Damage Potential: Rated as Moderate
Health Hazard: Allergy



- [View Brief Tree Record](#)
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Photo Credits:
W. Mark and J. Reimer

Cite This Page:
SelecTree. "*Pinus eldarica* Full Tree Record." SelecTree. 1995-2011. Feb 1, 2011.
< http://selecttree.calpoly.edu/treedetail_all.lasso?rid=1046 >

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CALABRIAN PINE

Pinus brutia

General Notes

SelecTree lists no cultivars of *brutia*.

[List all Pinaceae | Pinus](#)

Family: Pinaceae

California Native: No

Habit: Erect or Spreading. Evergreen foliage.

Sunset Zones: 4 - 9 and 12 - 24

Exposure: Full Sun to Partial Shade

Water Needs: Moist to Dry **Soil**. Drought tolerant.

Soil Type: Clay, Loam or Sand

Soil pH: Highly Acidic to Highly Alkaline

Seaside Tolerance: Good in Mild Zone

Height: 65 feet

Growth Rate: 36 Inches per Season

Shape: Conical or Oval, Erect or Spreading and covers an Extensive Area.

Longevity: Greater than 150 years

Leaves: Needle Medium to Dark Green .

Flowers: Inconspicuous

Fruit: Brown or Yellow Cone, Large (1.50 - 3.00 inches) , fruiting in Winter.

Bark: Dark Gray, Furrowed

Pest & Disease: Resistant to Texas Root Rot and Verticillium. Susceptible to Aphids .

ATTRIBUTE INFO

- » Attributes Defined
- » Add or Edit Attributes

YOU SEARCHED FOR:*

(60) matching trees

*Based on last search.

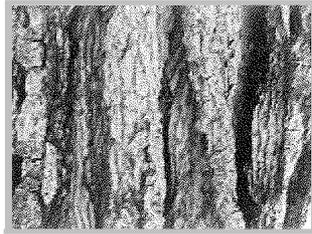
rightTree rightPlace

Utilities,
Fire Safety,
Root
Damage?





Shading Capacity: Rated as Dense in Leaf
Branch Strength Rated as Medium
Litter Issue Dry Fruit
Root Damage Potential Rated as Moderate
Wealth Hazard Allergy



- [View Brief Tree Record](#)
- [View Full Size Images](#)

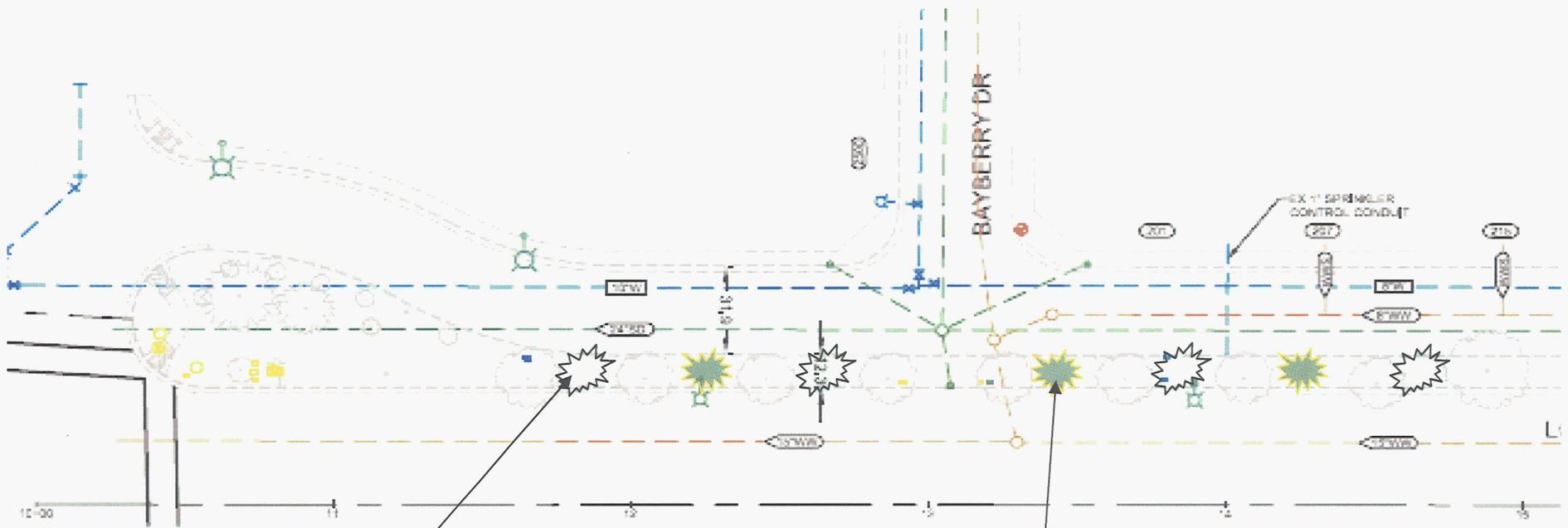
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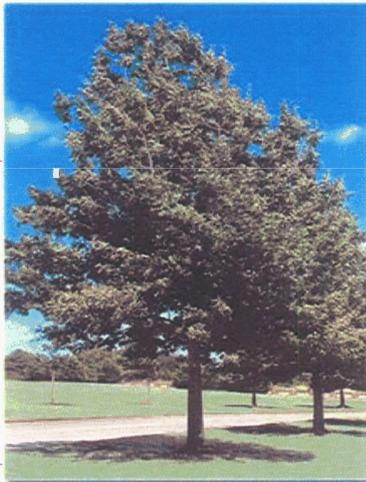
SelectTree. "*Pinus brutia* Full Tree Record." SelecTree. 1995-2011. Feb 1, 2011.
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 *Shumard red oak* "Quercus shumardii"

Mondell Pine "Pinus eldarica"



Podocarpus gracilior "Fern pine"
planted after Ash trees are removed

