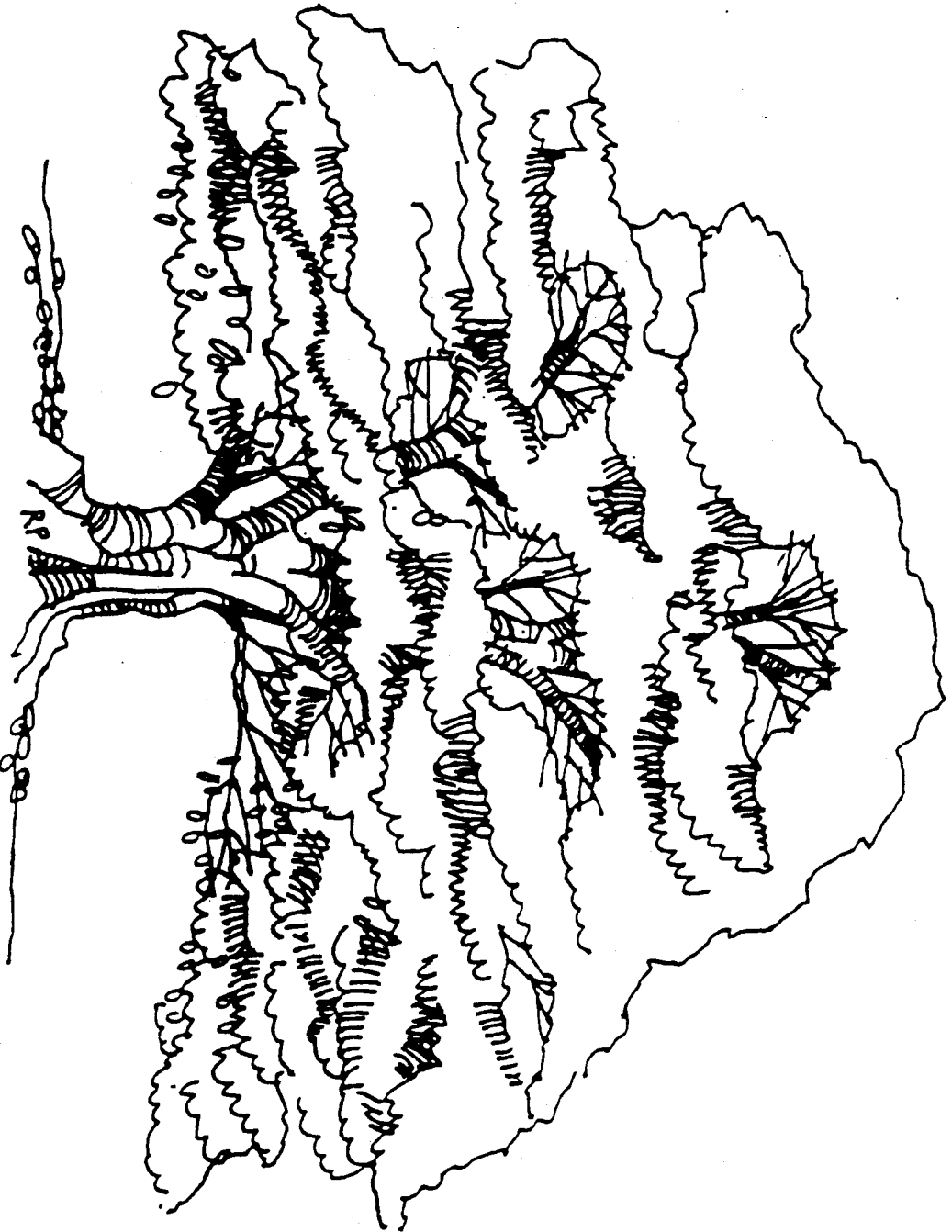


CITY OF PETALUMA, CA



List of Approved Street Trees
JANUARY, 1999

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Using the List of Trees:

Genus Species: Botanical names are listed first, for accuracy. Common names are in bold lettering.

Evergreen and Deciduous trees: Evergreens may be broadleaf or with needle-like foliage. Deciduous trees may offer fall color.

Height and width at maturity: Gives you an idea of the eventual size of the tree.

Minimum Planter Width: Some trees have very large trunks or root flares and require large planting areas. Use this guideline to reduce or avoid damage to your sidewalk and your tree.

Comments: Gives you some additional information. Reference books such as Sunset Western Garden Guide can tell you more.

Planting Applic. (Applications): For restrictive sites, such as areas under power lines. Key is on page 7.

Rec. Spacing (Recommended Spacing): This number represents the spacing between planting holes.

The City of Petaluma Community Development Department at 11 English Street will be happy to give you information on proper tree planting, staking, and maintenance.

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Genus Species 'Variety'	Evergreen/ Deciduous	Ht./Width at Maturity	Minimum Planter Width	Comments	Planting Applic.	Rec. Spacing	Tree Locations
<i>ACER platanoides</i> Norway Maple		50h 40w	4'	Adaptable. Shallow Rooted		30'	Wickersham Park
<i>ACER rubrum</i> 'Armstrong' 'Red Sunset' Red Maple	Deciduous	45h 15w	4'	Good Fall Color.		15'	Wickersham Park 608 Jonas (off Sunnyslope Road)
<i>AESCULUS carnea</i> Red Horsechestnut	Deciduous	40h 20w	4'	Difficult availability.	a	20'	Wickersham Park 600 D St (facing 6th)
<i>AESCULUS hippocastanum</i> Common Horsechestnut	Deciduous	60h 40w	4'	Roots can be invasive. Produces fruit in fall. Attractive spring flowers.		30'	420 6th Street City Hall, North lawn near staff parking
<i>ALBIZZIA julibrissin</i> Silk Tree	Deciduous	40h 40+w	4'	Likes summer heat; produces pink fluffy flowers in summer; litter all year.		40'	506 B St.
<i>ALNUS cordata</i> Italian Alder	Deciduous	40h 25w	6'	Litters in spring; aggressive roots. likes water.		20'	225 Keller St.
<i>ARBUTUS unedo</i> Strawberry Tree	Evergreen	25h 25w	2'	Slow growing.	a,b,d	25'	910 D Street
<i>CALOCEDRUS decurrens</i> Incense Cedar	Evergreen	70h 30w	6'	Needs room. Difficult availability.	d	30'	231 Keller St.
<i>CARPINUS betulus</i> European Hornbeam	Deciduous	40h 15w	3'	Useful where narrow upright form is required. Scale infestations possible. 'Fastigiata' is narrower.	a,g	15'	Putnam Plaza (at rear)
<i>CARPINUS caroliniana</i> American Hornbeam		25h 25w	3'		b	20'	
<i>CARYA illinoensis</i> Pecan Tree	Deciduous	70h 70w	6'	Resists root oak fungus.	f	60'	243 Howard; 5th & D row of trees on 5th
<i>CATALPA bignonioides</i> Common Catalpa	Deciduous	50h 30h	4'	Produces long seed capsules in fall. Has large leaves and large flowers.	f	25'	southeast corner 429 D Street 301 4th St., Wickersham Park 306 Howard St., 44 6th St., 700 6th St.
<i>CEDRUS deodara</i> Deodar Cedar	Evergreen	80+h 50w	10'	Difficult availability. Large conifer.		50'	317 Keller St., 707 6th St., 216 Howard St. 47 6th St.
<i>CELTIS australis</i> European Hackberry	Deciduous	45h 30w	4'	Tolerates clay soils.	a,f,g	25'	

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Genus Species 'Variety'	Evergreen/ Deciduous	H./Width at Maturity	Minimum Planter Width	Comments	Planting Applic.	Rec. Spacing	Tree Locations
<i>CELTIS occidentalis</i> Common Hackberry	Deciduous	50h 45w	3'	Tolerates many soils; resists oak root fungus.	a,g	30'	
<i>CELTIS sinensis</i> Chinese Hackberry	Deciduous	40h 35w	4'	Smaller leaves than <i>C. occidentalis</i> . Aggressive roots.		30'	Cherry Hill Townhomes (off Liberty Lane), 915 D St.
<i>CERATONIA siliqua</i> Carob Tree	Evergreen	40 h 35w	4'	No summer water required when established. resistant to oak root fungus. 1' seed pods.	g	25'	Cinnabar School
<i>CERCIS canadensis</i> Eastern Redbud	Deciduous	30h 20w	4'	Attractive spring flowers.	b,c	15'	
<i>CERCIS occidentalis</i> Western Redbud	Deciduous	15h 15w	4'	Excellent for dry banks: all year interest. Usually multi-trunked.	b,f,c	15'	Library entry road
<i>CANAMONIA camphora</i> Camphor Tree	Evergreen	70h 60w	10'	Needs large planter area: frost sensitive: do not plant in adobe soil.		40'	615th St.: 417 Keller St. (young trees) Police Station frontage; 216 Liberty St., 505 & 608 Liberty St.
<i>CRATAEGUS phaenopyrum</i> Washington Thorn	Deciduous	25h 20w	2'	Beautiful orange and red fall color. thorns.	a,b,c,f,g	15'	416 G St., Kent St. at Kentucky St. (south side of street) 615 Keller St.
<i>FRAXINUS holorricha</i> 'Ash', 'Morraine'	Deciduous	40h 30w	3'	Needs summer water.		30'	917 D St.
<i>FRAXINUS oxycarpa</i> (<i>F. angustifolia</i>) 'Ash', 'Raywood' or 'Ash Flame'	Deciduous	30h 25w	5'	Good fall color; Moderate water.	d,g	25'	505,507 Second St. 2 Liberty Street 410 Liberty Street
<i>GINKGO biloba</i> 'Fairmount', 'Autumn Gold', 'Saratoga' Ginkgo	Deciduous	60h 35w	4'	Good fall color, generally remains as small tree; use male tree only. (Nursery varieties are male.)	a,g	30'	Wickersham Park, off H St., near maintenance shed.
<i>JUGLANS nigra</i> Black Walnut	Deciduous	25h 20w	6'	Produces edible nuts; requires regular maintenance.	b,f	20'	South side of E St. between 4th & 5th Sts. 226 & 312 6th Street 419 E Street
<i>JUGLANS regia</i> English Walnut							
<i>KOELREUTERIA bipinnata</i> Chinese Flame Tree	Deciduous	35h 35w	3'	Decorative seed pods. Deeply rooted.		30'	419 Fair Street

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Genus Species 'Variety' Common Name	Evergreen/ Deciduous	Ht./Width at Maturity	Minimum Planter Width	Comments	Planting Applic.	Rec. Spacing	Tree Locations
<i>COELREUTERIA paniculata</i> Goldenrain Tree	Deciduous	40h 30w	3'	Yellow fall color, tolerates clay soils. Summertime yellow flowers.	c,f,g	25'	
<i>LAGERSTROEMIA indica</i> (Indian tribes' cultivars) Crane Myrtle	Deciduous	25h 20w	2'	Summer flowering, sometimes needs special staking.	a,b,c,g	20'	615 Keller Street west side
<i>LAURUS nobilis</i> 'Saratoga' Sweet Bay	Evergreen	30h 30w	3'	Round leaves.		30'	SRJC Petaluma Center Courtyard
<i>LIQUIDAMBAR styraciflua</i> 'Burgundy', 'Aurora', 'Festival', 'Palo Alto' Sweet Gum	Deciduous	50h 30w	12'	Good fall color, shallow, aggressive roots. Fruits are spiny balls. Tolerates damp soil. Hardy.		30'	314 & 611 Keller Street 620 Liberty Street 1101 D Street
<i>LIRIODENDRON tulipifera</i> Tulip Tree	Deciduous	70h 30w	12'	Subject to aphid infestation. Aggressive roots.		30'	707 & 711 D Street
<i>MAGNOLIA soulangiana</i> Saucer Magnolia	Deciduous	25h 25+w	4'	Low branching, glossy leaves, flowers.	b,g	25'	112 5th Street
<i>MALUS floribunda</i> 'Radiant', 'Red Silver', 'Sentinel', 'Snow Drift', 'Prairie Fire' Flowering Crabapple	Deciduous	20h 15w	3'	Spring flowers.	a,b,c,g	15'	"A" Street parking lot
<i>MALUS ioensis</i> 'Plena' Bechtel Crabapple	Deciduous	25h 20w	3'	Spring flowers.	a,b,c,g	15'	
<i>MAYTENUS boaria</i> 'Greenshowers' Mayten Tree	Evergreen	40h 20w	4'	Slow growing at first, weeping branches. Good drainage required.	b,d	20'	338 Keokuk Street, Putnam Plaza at fountain
<i>OLEA europaea</i> 'Swan Hill' Fruitless Olive	Evergreen	25h 25w	4'	Use standards only, fruitless variety only.	b,d	25'	
<i>PHOTINIA fraseri</i> Photinia	Evergreen	10h 10w	2'	New foliage red.	a,b	10'	1010 D Street Wickersham Park
<i>PISTACIA P. chinensis</i>	Deciduous	60h 50w	6'	Tolerates many soil conditions, drought tolerant when established.	b,d	40'	

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Genus Species 'Variety'	Evergreen/ Deciduous	Ht./Width at Maturity	Minimum Planter Width	Comments	Planting Applic.	Rec. Spacing	Tree Locations
<i>PLATANUS acerifolia</i> 'Bloodgood', 'Yarwood' Sycamore, Plane Tree	Deciduous	60h 40w	6'	Hardy, tolerates clay soils; subject to fungus disease on leaves.	e,f,g,h	40'	New, old trees at Town Plaza shopping center frontage - Ellis St./E. Wash.; 312 & 601 6th St. 601 Keller, 215 Liberty, 831 D
<i>PRUNUS bliretana</i> Flowering Plum	Deciduous	25h 20w	2'	Leaves reddish in spring then bronze. Little or no fruit.	b	20'	
<i>PRUNUS cerasifera</i> 'Thundercloud' 'Krauter Vesuvius' Flowering Plum	Deciduous	18h x 12w 20h x 20w	2'	Purple-red leaves. 'Krauter Vesuvius' has no fruits. 'Thundercloud' may set fruit.	a,b	15'	600 & 701 D Street 815 D Street, 1103 D Street
<i>PRUNUS sargentii</i> 'Columnaris' Columnar Flowering Cherry	Deciduous	35h 15w	4'	Does not perform well in heavy clay soils; requires staking.	c	15'	
<i>PRUNUS 'Okame'</i> Flowering Pear	Deciduous	25h 20w	2'	Pink flowers in spring. Sensitive to too much pruning.		20'	
<i>PYRUS calleryana</i> Redspire', 'Chanticleer', 'Aristocrat', 'Capital' Flowering Pear	Deciduous	35h 20w	3'	Good fall color, flowers in spring; tolerates clay soils	a,c,d,e,g	20'	419 Keller Street 506 Liberty Street
<i>PYRUS kawakamii</i> Evergreen Pear	Semi- Deciduous	20h 20w	3'	May be short-lived. White flowers in spring. Rarely sets fruit.	a,b,c,d	20'	Parklane Apts. by Magnolia Avenue
<i>QUERCUS agrifolia</i> Coast Live Oak	Evergreen	60h 60w	6'	Pruning for shape required in planter strips.	d,f,g	60'	Oak Hill Park
<i>QUERCUS coccinea</i> Scarlet Oak	Deciduous	70h 40w	6'	Good fall color.	c	40'	Postal facility frontage Corona Road and McDowell
<i>QUERCUS ilicifolia</i> Holly Oak	Deciduous	70h 40w	6'	Tolerates clay soils; tolerates some irrigation.	d,f,g	40'	Washington, Payran Kragen Auto Parts
<i>QUERCUS lobata</i> Valley Oak	Deciduous	80h 80w	6'	No summer water when established.	f,g	80'	945 Sunnyslope 342 Keller, 342 Howard Oak Hill Park
<i>QUERCUS palustris</i> Pin Oak	Deciduous	55h 40w	5'	Rusty orange to red fall color.		40'	Wickersham Park
<i>QUERCUS robur</i> 'Fastigiata' English Oak	Deciduous	40h 20w	6'	Narrow oak may be hard to find.		20'	Indian Valley College (Novato) Parking lot entry

List of Trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

Genus Species 'Variety' Common Name	Evergreen/ Deciduous	Ht./Width at Maturity	Minimum Planter Width	Comments	Planning Applic.	Rec. Spacing	Tree Locations
<i>QUERCUS rubra</i> Red Oak	Deciduous	80h 40w	8'		e	40'	Wickersham Park, corner 6th and H St.; 735 H St. (young)
<i>QUERCUS suber</i> Cork Oak	Evergreen	50h 40w	8'		f	40'	600 D Street at corner
<i>RHUS lancea</i> African Sumac	Evergreen	25h 20w	4'	Frost sensitive; tolerates clay soils; weeping form; poisonous foliage.	b,d,f,g	20'	1300 N. McDowell, northwest sides of building
<i>ROBINIA ambigua</i> 'Idahoensis' Idaho Locust	Deciduous	35h 25w	5'	Moderate growth. Tolerates poor soils		25'	
<i>ROBINIA pseudacacia</i> 'Purple Robe' Purple Robe Locust	Deciduous	60h 35w	4'	Aggressive roots; brittle wood. Fast.		30'	219 5th Street 111 Liberty Street Oak Hill Park
<i>SAPINDA sebiferum</i> Chinese Tallow Tree	Deciduous	35h 30w	3'	Good fall color, won't tolerate poor soil; poor drainage.	a,b,c,d,g	30'	515 "j" St.
<i>SEQUOIA sempervirens</i> Coast Redwood	Evergreen	90h 45w	12'	Must be pruned; use new, smaller varieties - 'Soguel', 'Aptos', etc.	d,e	50'	800 D Street
<i>SOPHORA japonica</i> Japanese Pagoda Tree	Deciduous	40h 40w	4'	Tolerates clay soils; produces summer flowers (re seeds)	g	40'	Putnam Plaza
<i>TILIA americana</i> 'Redmond' Linden	Deciduous	35h 25w	5'	Grows rapidly; Pyramidal form.		25'	504 D Street 6th and G
<i>TILIA cordata</i> 'Chancellor' 'Degroot'; 'Greenspire' Linden	Deciduous	40h 25w	4'	Fragrant	d	25'	Payran and East D Street 2 trees southwest corner 811 D Street; 6th and G
<i>TRISTANIA laurina</i> 'Elegans' Swamp Myrtle	Evergreen	20h 20w	2'	Dark green leaves. Formal appearance. May be frost tender.	b	20'	
<i>ZELCOVA serrata</i> Zelkova	Deciduous	45h 35w	4'	Graceful appearance, looks like elm.		35'	

List of trees Approved for Planting Adjacent to Public Streets and Sidewalks
in the City of Petaluma

OTHER TREES: Tree species not listed above require City approval prior to planting within the City right-of-way. The Department of Parks and Recreation may be contacted at 707/778-4380 for information.

The following plant species are generally not acceptable for planting along City streets: Acacia, Acer saccharinum, bamboo species, fruit trees, ginkgo (female), lingstrum, morus species, nerium oleander, pampas grass, populus species, pyracantha, salix species.

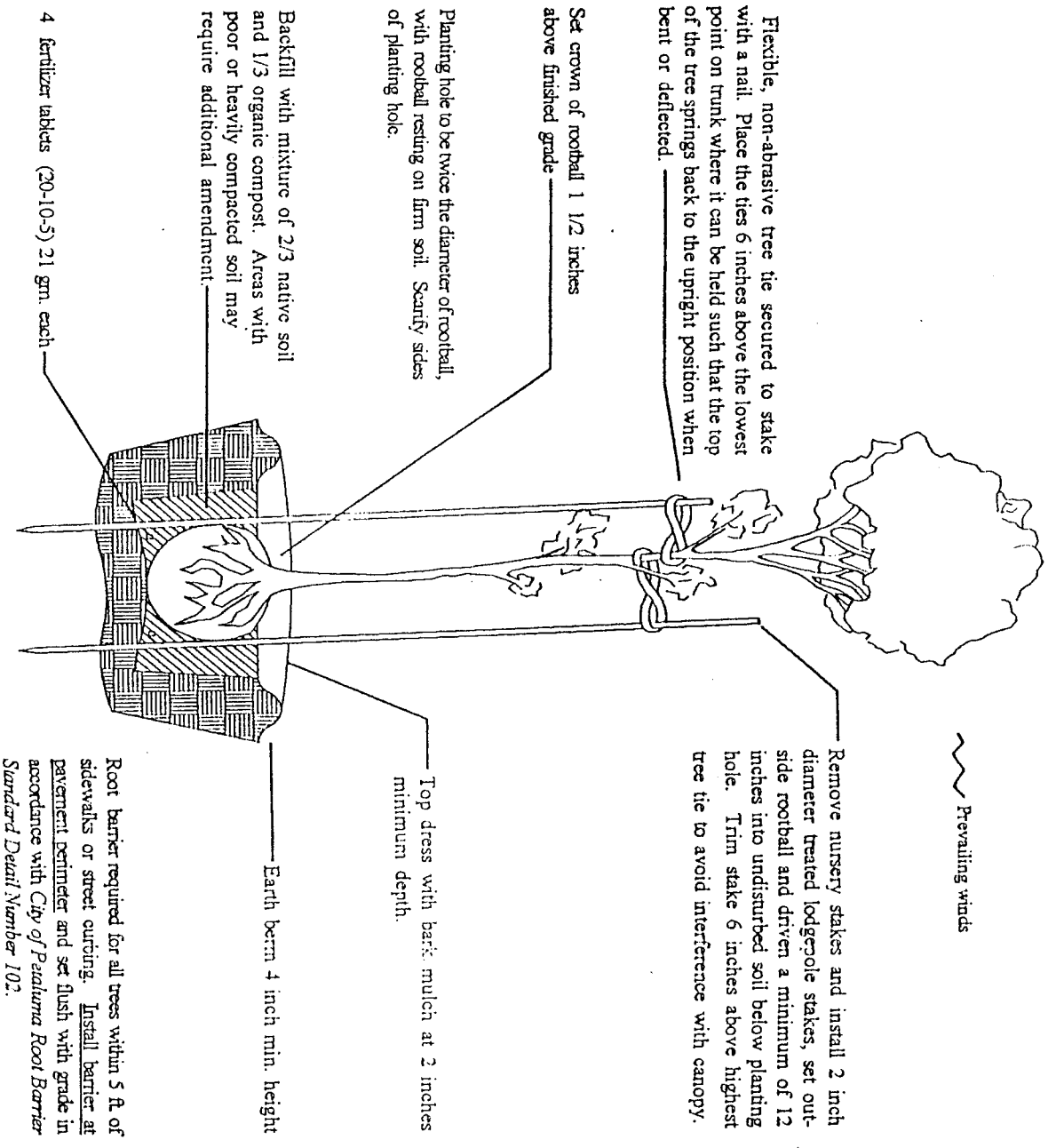
PLANTING AND MAINTENANCE: Street tree planting standards and maintenance guidelines may be obtained from the City of Petaluma Planning Department, 11 English Street, Petaluma, CA 94952. An Excavation Permit must be obtained from the City Public Works Department, 22 Bassett Street, Petaluma, CA 94952 prior to the removal of any concrete within the City right-of-way.

TREE REMOVAL IN PUBLIC RIGHT-OF-WAY: A tree removal permit may be obtained from the City of Petaluma Planning Department, 11 English Street. Before removing tree a tree removal permit must be obtained.

PLANTING APPLICATIONS: (Refer to the column labeled "Planting Applic." for trees that will perform satisfactorily under the following conditions):

- a. Small (≤ 9 sq. ft.) or narrow ($\leq 3'$ wide) planter areas in sidewalks adjacent to parking areas or buildings.
- b. Vertical restrictions due to building eaves, overhead utilities, etc.
- c. View preservation on hillsides and along scenic corridors; solar access preservation.
- d. Screen plantings adjacent to sound walls and perimeter fencing, parking areas, and unattractive industrial or commercial areas.
- e. Median islands impacted by truck traffic and constrained by sight distance visibility requirements.
- f. Water conserving or native landscapes.
- g. Strong winds.
- h. Freezing temperatures.

StreetName/Items.doc




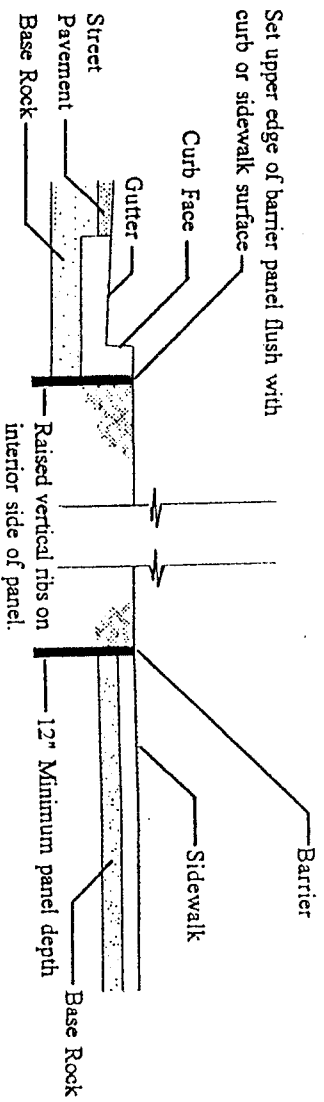
Section View

NOTES:

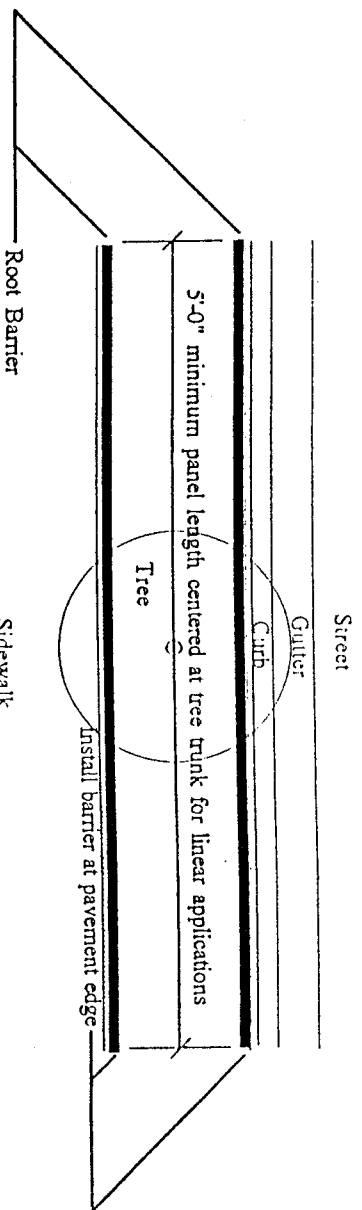
- 1) All trees within public right-of-way areas to be minimum 15 gal. size, and in conformance with City Street Tree List.
- 2) Excavation permit required prior to removal of pavement in right of way areas.
- 3) All trees planted and/or installation of decorative metal grates within downtown area shall, at the discretion of the Director of Engineering, and/or Director of Public Works, and/or Director of Planning.

Root barrier required for all trees within 5 ft. of sidewalks or street curbing. Install barrier at pavement perimeter and set flush with grade in accordance with *City of Petaluma Root Barrier Standard Detail Number 102.*

<p>CITY OF PETALUMA Department of Engineering 22 Bassett Street - Petaluma California 94952 707.778.3004 - Fax 707.778.4437</p> <p>Approved By: <i>Thomas S. Hargis</i> Thomas S. Hargis - R.C.E. 22366</p>	<p>Standard TREE PLANTING AND STAKING Detail</p>	<p>Drawn By: Butch Smith</p> <p>Scale: N. T. S.</p> <p>Date: August 21st 1995</p> <p>File Number: Std. Det. LDS0000.101</p>
		
		Page: 101



Section View



Plan View

NOTE:

1. Install barrier against perimeter of all adjacent street curbing or sidewalk paving situated within 5'-0" of tree trunk.
2. Set upper edge of barrier panel at or slightly below pavement surface grade.
3. Install barrier with ribs facing the tree. Panel may be positioned to angle slightly outward toward the bottom.

Material shall consist of polypropylene or polystyrene sheets, or other City approved sheet or sectional panel material. Sheet or sectional panel material shall be at least a thickness of .060 by 12" minimum depth with root deflective, raised vertical ribbing. Interlocking coupling connectors shall be used to connect panels, or coupling shall be solvent welded to provide sealed units, in accordance with manufacturer's specifications. Materials shall not be impregnated with chemicals intended to deter root growth.

CITY OF PETALUMA Department of Engineering 22 Bascom Street - Petaluma, California 94952 707/778-4304 - Fax 707/778-4317		Standard LINEAR ROOT BARRIER Detail		Drawn By: Butch Smith	
Approved By: <i>Thomas S. Hargis</i> Thomas S. Hargis - R.C.E. 22366		Date: August 21st 1995		Page: 102	
		File Number: Std Det. LDS0000.102		