



Transportation Workshop 2

February 23, 2016

Presented By: Diana Langley
Ben Moody

Workshop Agenda



- Workshop 1 – January 28
 - Background
 - Financial Overview
 - Pavement Condition Assessment
 - Legislative Update
 - Highway 20 Improvements
 - Highway 99 Improvements
 - Bridge Street
- Workshop 2 – February 23
 - Garden Highway Industrial Area
 - Tuly Road Extension
 - Caltrans ATP Grants
 - Citywide Traffic Model Update
 - Bicycle Master Plan Implementation
 - Local Transportation Projects
 - Discussion of Funding Options

PURPOSE

Purpose of Workshop



- Provide high level overview of various projects
- Establish priority for projects
- Discuss options to address maintenance needs



RECAP OF WORKSHOP 1

Road Fund Overview



	Projected FY 15/16	Projected FY 16/17	Projected FY 17/18	Projected FY 18/19	Projected FY 19/20
Revenues Without Grant Funds:					
Total:	\$3,255,483	\$3,070,000	\$3,200,000	\$3,300,000	\$3,400,000
Expenditures:					
Operational Costs:	\$1,583,900	\$1,630,000	\$1,680,000	\$1,730,000	\$1,780,000
\$ Available for CIP	\$1,671,583	\$1,440,000	\$1,520,000	\$1,570,000	\$1,620,000

Assumption:

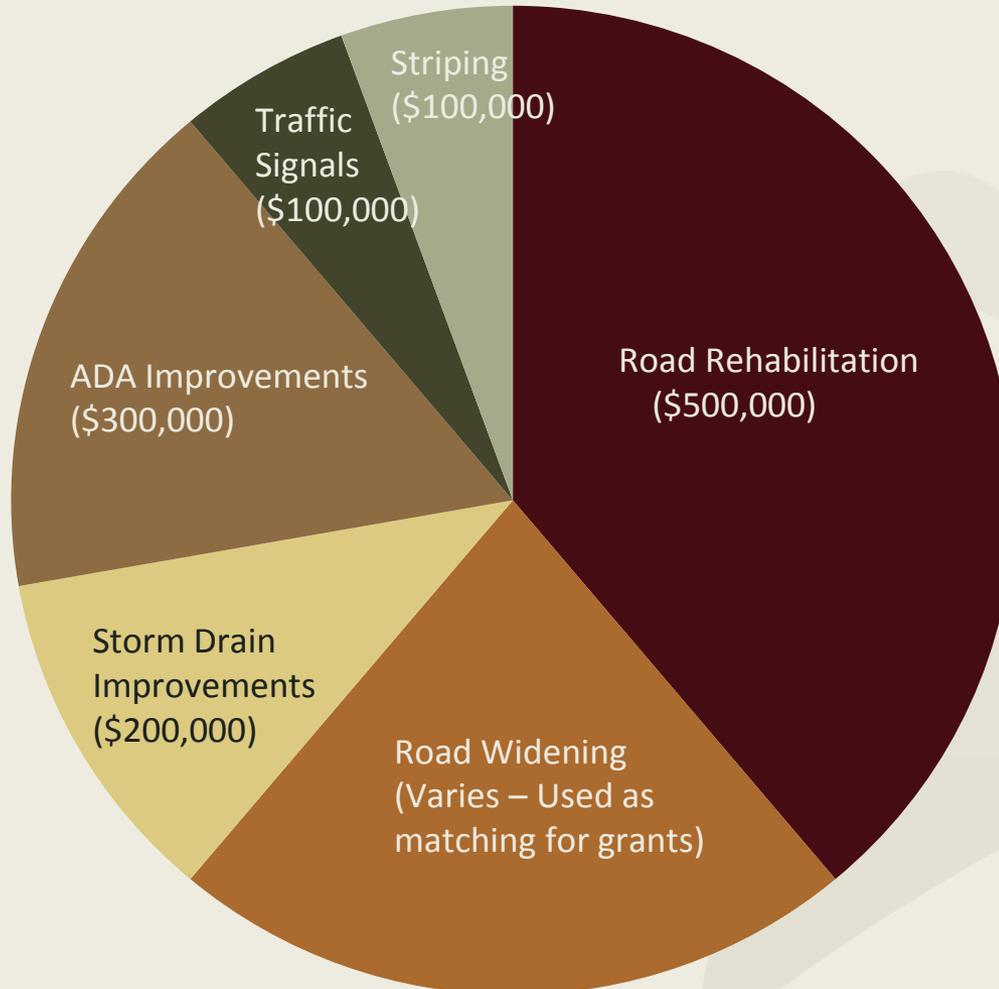
- Operational Costs increase 3% annually.

Uses of Road Funds



- Operational Costs
 - Salaries & Benefits
 - Materials, Services & Supplies
- Capital Improvement Projects
 - Road Rehabilitation
 - Road Widening/New Construction
 - Storm Drain Improvements
 - Sidewalk/ADA Improvements
 - Traffic Signals
 - Streetlights
 - Striping of Roadways

Uses of Road Funds



Uses of Developer Impact Fee

- Road Funds



- Major Planned Roadway Improvements Identified in the General Plan

**Estimated Cost of Major
Planned Roadway
Improvements**

\$336,000,000

**DIF – Road Funds Available
as of 12/31/15**

\$4,758,000

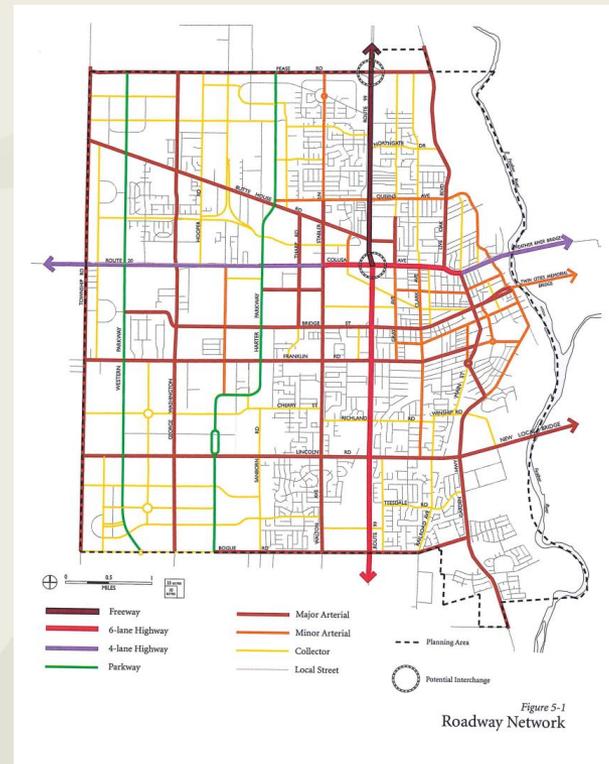


Figure 5-1
Roadway Network

City Road Condition



- Maintained Centerline Miles of Roadways
 - 227 Miles within the City Limits
 - Arterials - 30 Miles
 - Collectors - 34 Miles
 - Local Roads – 163 Miles

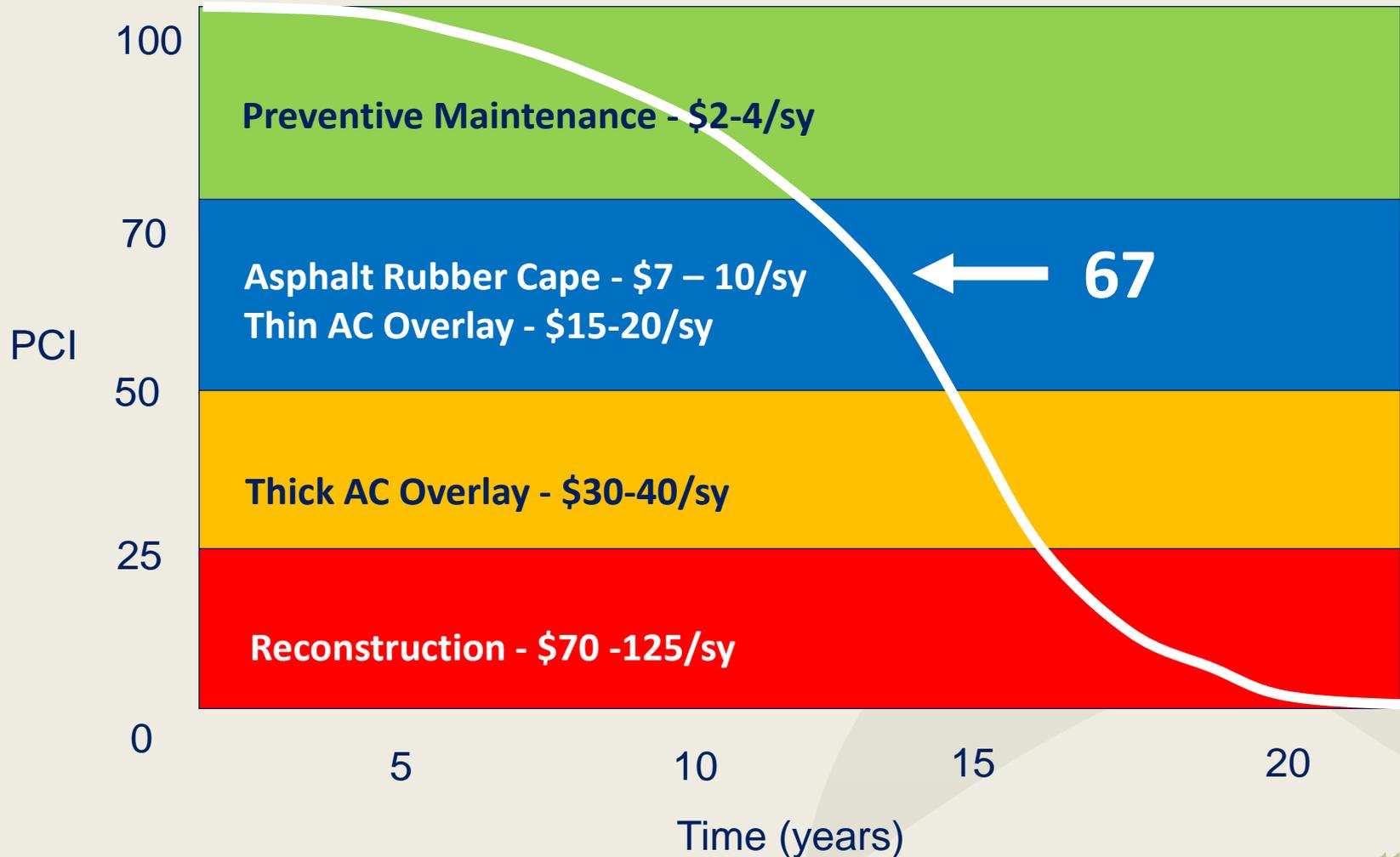
- Pavement Assessment
 - **Current Yuba City PCI – 67**

- Current Goal PCI > 70
 - Based on report generated in 2015
 - Pavement Management System Developed through FY 15/16 CIP “StreetSaver” with NCE consulting performing assessment
 - Recommended to update the assessment 3 – 5 years
 - » Determine maintenance needs
 - » Develop strategy for maintenance

		100
I	Good	
II/III	Fair (non-load)	Fair (load-related)
IV	Poor	
V	Very Poor/Failed	
		0
Condition Category	Pavement Condition	PCI

Pavement Condition Categories

Why is PCI so critical?



City Road Condition



Cost Scenarios:

- Scenario 1: City funding **\$0.5M/yr**
PCI will drop to 34 by 2035
- Scenario 2: City funding **\$1.5M/yr**
PCI will drop to 42 by 2035
- Scenario 3: City funding **\$5.9M/yr**
Maintain current PCI at 67
- Scenario 4: City funding **\$6.4M/yr**
PCI will improve to 70
- Scenario 5: City funding **\$8M/yr**
PCI will Improve to 85

SANBORN RD., (FAILED) – PCI 23



Agency	PCI	Centerline miles	Cost to maintain current PCI(\$M/Yr)
Yuba	67	227	\$5.9
Folsom	77	274	\$8.4
Fairfield	72	320	\$8.8

Legislative Update



- Fix Our Roads Coalition
- Republican Caucus Proposal
- Will the State or Federal government solve the problem?

SR 99 Operational Improvements



- Scope of Work:
 - Install traffic signal at Hunn Road
 - Extend right-turn lanes
 - Northbound SR 99 to eastbound SR 20
 - Northbound SR 99 to eastbound Bridge Street
 - Install overhead changeable message signs
 - Southbound near Pease Road
 - Northbound between Franklin Road and Bridge Street
 - Upgrade communication systems, vehicle sensors, curb ramps and pedestrian sensors and signals between Lincoln Road and SR 20

Future Interchange at SR 99/SR 20



- Caltrans requires a Project Study Report – Project Development Support (PSR-PDS) Project Initiation Document to analyze interchange alternatives
- Caltrans has provided a proposal to prepare the PSR-PDS for up to 4 interchange alternatives
 - Estimate 1 - \$292,000
 - Estimate 2 - \$437,000 (Estimate 1 scope of work + traffic modeling)

Future Interchange at SR 99/Pease Road



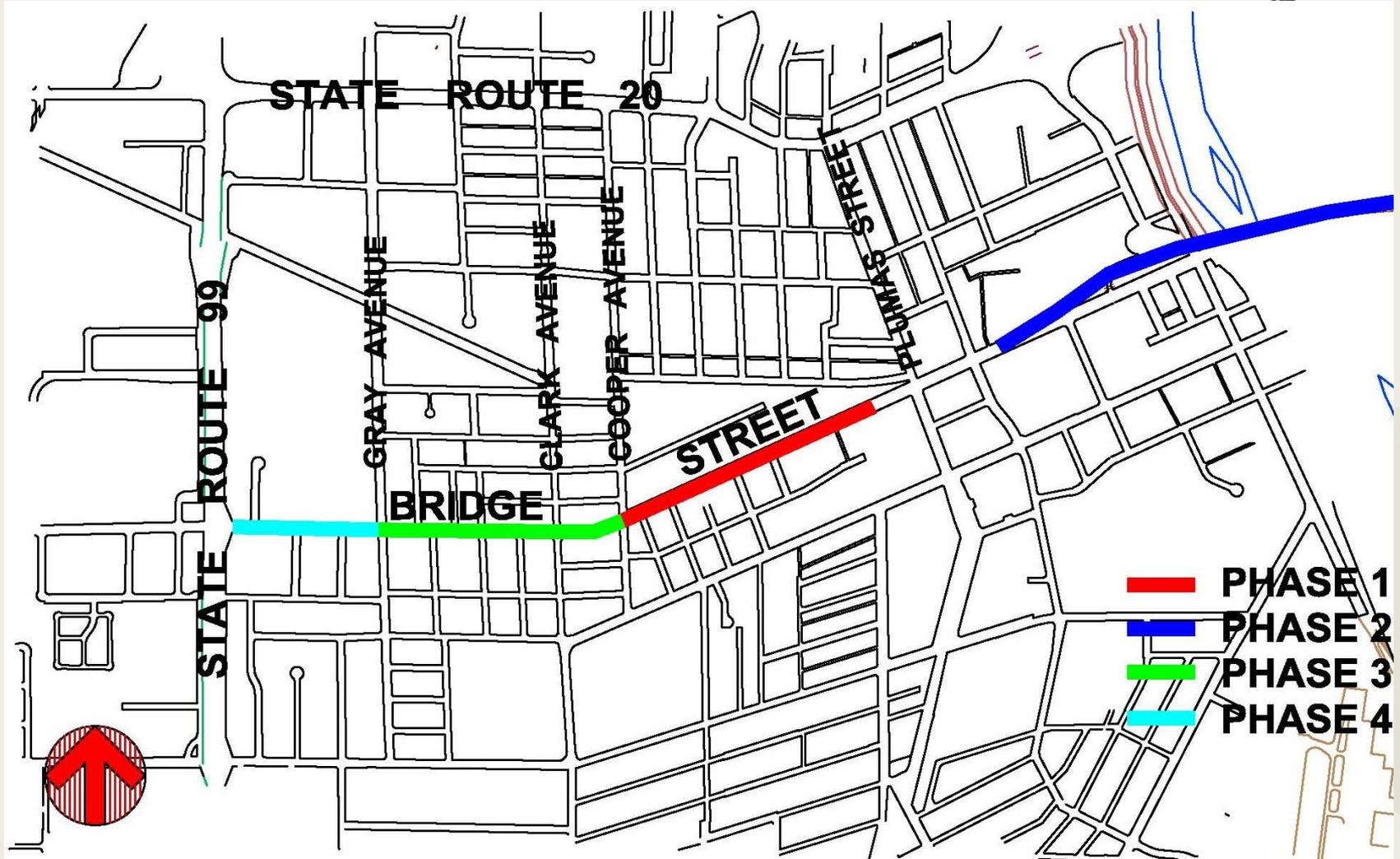
- Project Study Report (PSR) completed in December 2004
- Evaluated 3 Interchange Alternatives:

Alternative	Description	Estimated Cost*
1	Tight Diamond Interchange with Roundabouts	\$12-\$15 Million
2	Partial Cloverleaf Interchange (L-9)	\$15-\$20 Million
3	Partial Cloverleaf Interchange (L-7)	\$18-\$22 Million

*Estimated cost would be considerably higher today.

If this is determined to be a priority project, then the PSR would need to be updated.

Bridge Street - Phasing



Bridge Street – Phase 3 Gray Ave. to Cooper Ave.



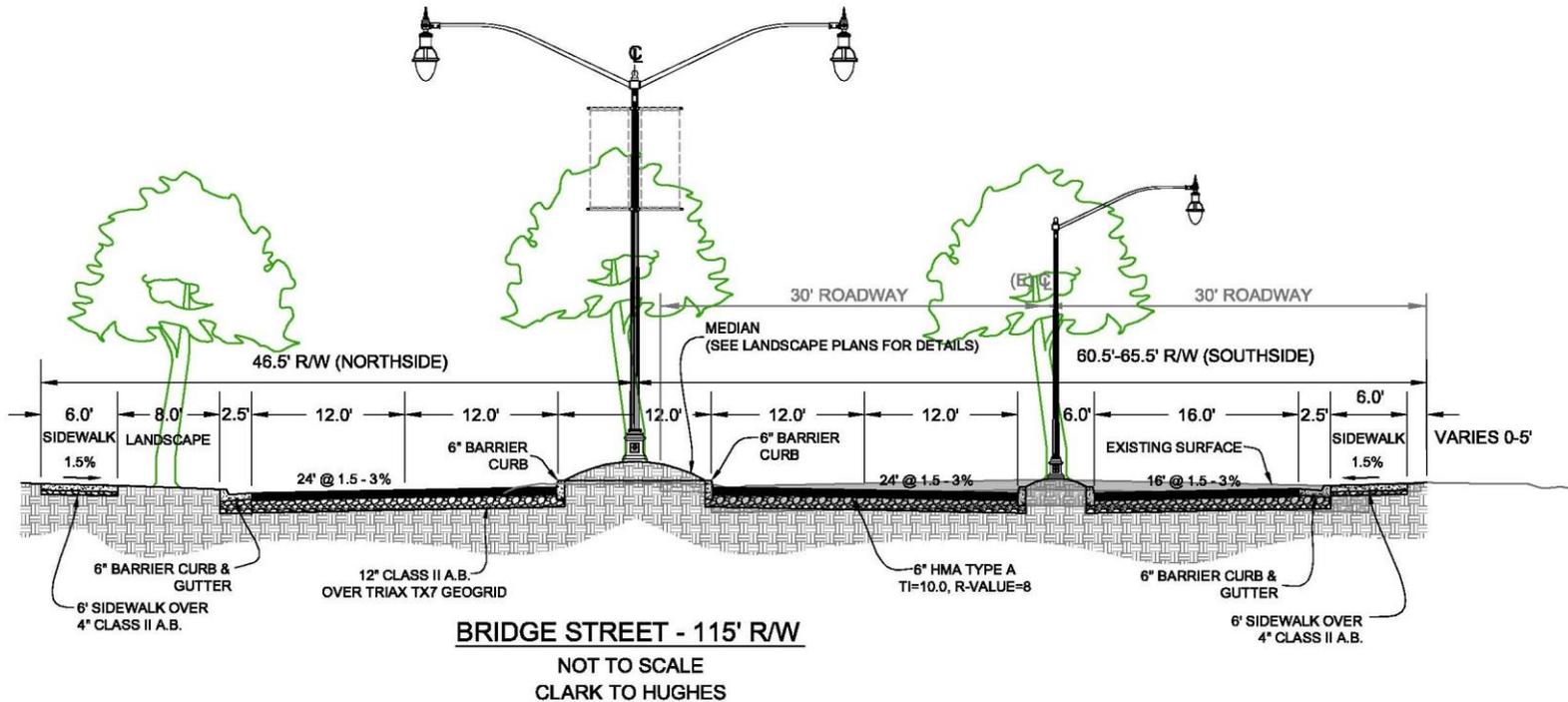
Four Options for Consideration

Option	Description	Right-of-Way Required	Estimated Cost
A-1	Standard Travel Lanes, Landscape Median, Frontage Road on South Side	Yes	\$8,400,000
A-2	Standard Travel Lanes, Landscape Median, Parking on South Side	Yes	\$7,500,000
A-2A	Standard Travel Lanes, Landscape Median, Parking on South Side, 10' Shared Path on North Side	Yes	7,550,000
A-3	5 Narrow Travel Lanes, No Parking	No	\$2,300,000

Bridge Street – Phase 3 Option A-1



Option	Description	Right-of-Way Required	Estimated Cost
1	Standard Travel Lanes, Landscape Median, Frontage Road on South Side	Yes	\$8,400,000

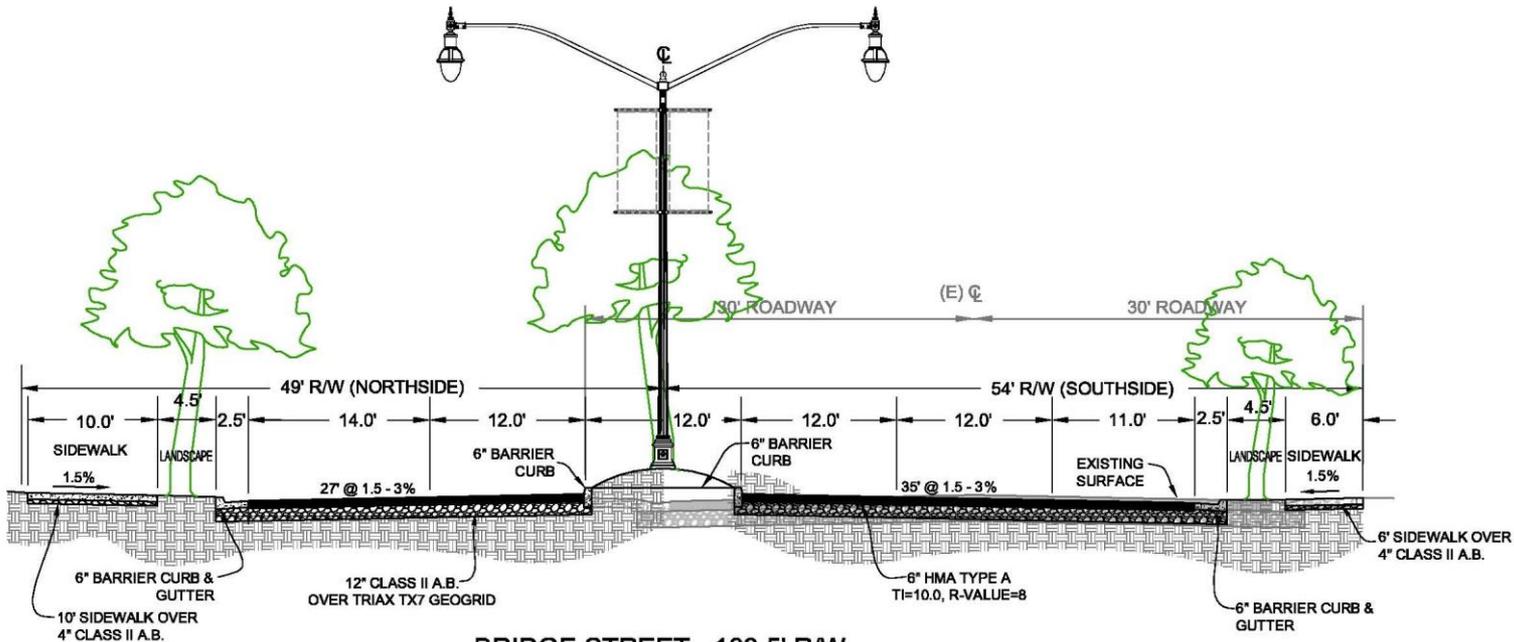


Bridge Street – Phase 3

Option A-2A



Option	Description	Right-of-Way Required	Estimated Cost
2A	Standard Travel Lanes, Landscape Median, Parking on South Side, 10' Shared Path on North Side	Yes	\$7,550,000



BRIDGE STREET - 103.5' R/W

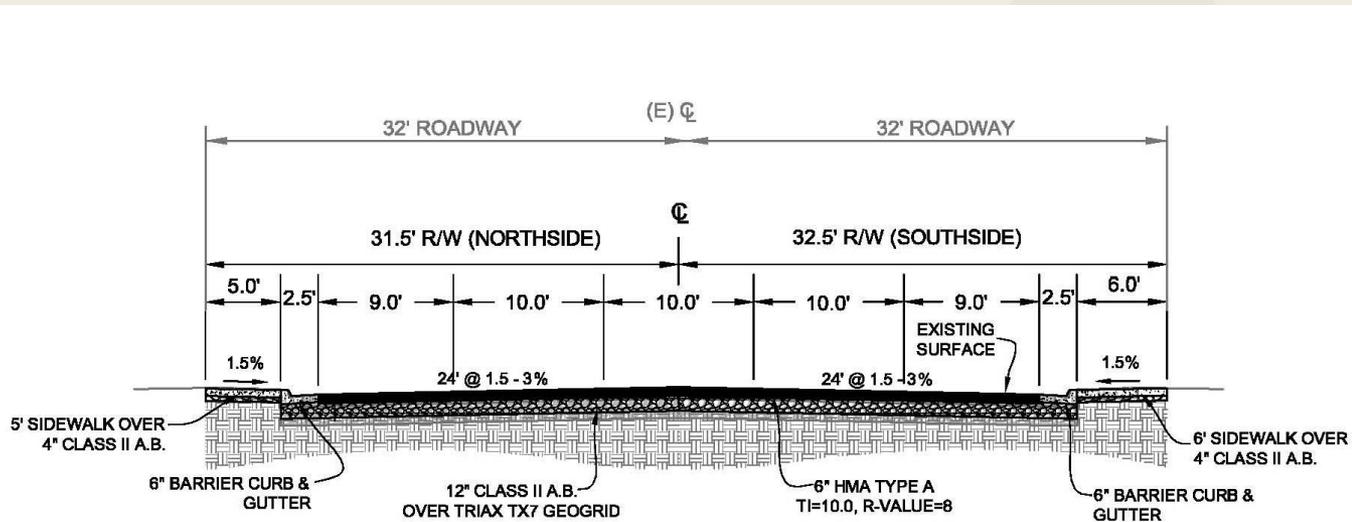
NOT TO SCALE
CLARK TO BROWN

Bridge Street – Phase 3

Option A-3



Option	Description	Right-of-Way Required	Estimated Cost
3	5 Narrow Travel Lanes, No Parking	No	\$2,300,000



BRIDGE STREET - 64' R/W

NOT TO SCALE
COOPER TO CLARK

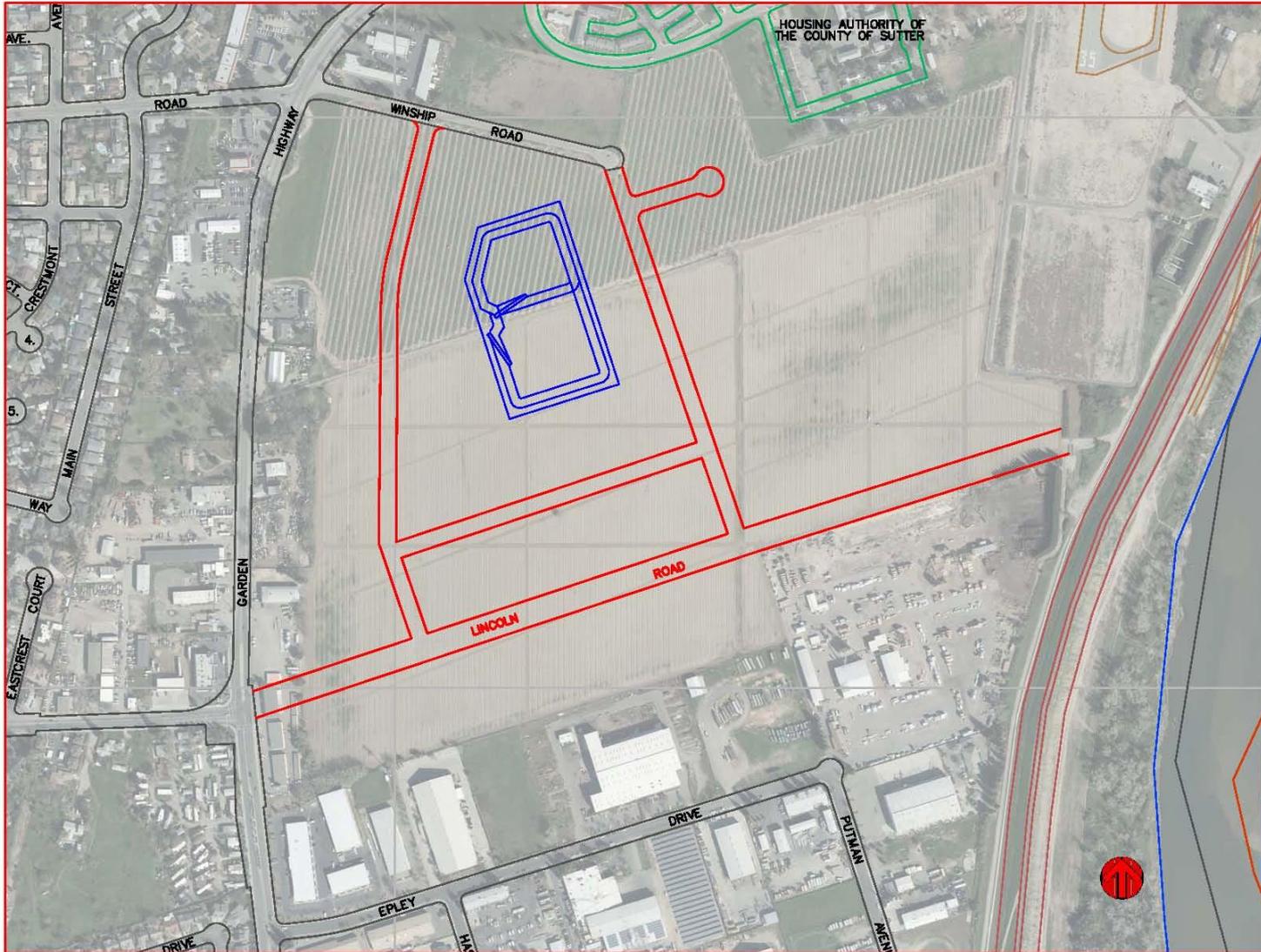


GARDEN HIGHWAY INDUSTRIAL AREA

Garden Highway Industrial Area



Garden Highway Industrial Area



Garden Highway Industrial Area



- Lincoln Road east of Garden Highway not currently included in Impact Fee Program
- All other internal streets would be responsibility of developer

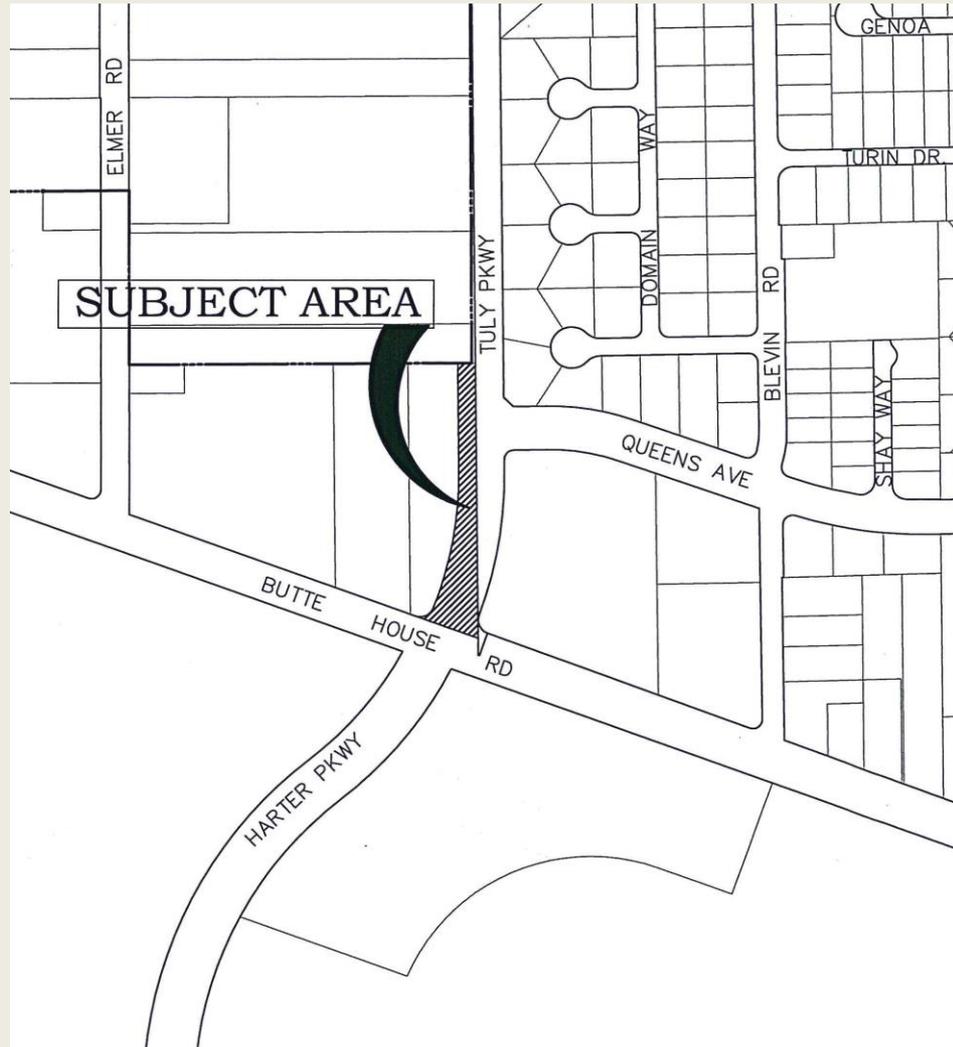


TULY ROAD EXTENSION

Tuly Road Extension



Tuly Road Extension



Tuly Road Extension



- Right-of-Way
 - Dedicated for Queens Avenue and east side of Tuly Road
 - Needed for west side of Tuly Road
- Funding
 - Funds collected for a portion of Queens Avenue and east side of Tuly Road
 - Impact Fees required for remainder of Queens Avenue and Tuly Road
 - Estimated Impact Fee Portion = \$800,000



CALTRANS ACTIVE TRANSPORTATION PROGRAM GRANTS BEN MOODY

Active Transportation Program (ATP) Grants



- The ATP consolidated existing federal and state transportation programs
 - Transportation Alternatives Program (TAP)
 - Bicycle Transportation Account (BTA)
 - State Safe Routes to School (SR2S)
- ATP is a competitive program
 - Prioritizes bike and pedestrian projects that increase bike and ped. modes of travel, enhance safety, reduce emissions, and provide improved public health
- Annual grant applications, are becoming more competitive.
 - Agencies dedicating full time staff, or paying consultants approximately \$20-30K per application.



Grant Success



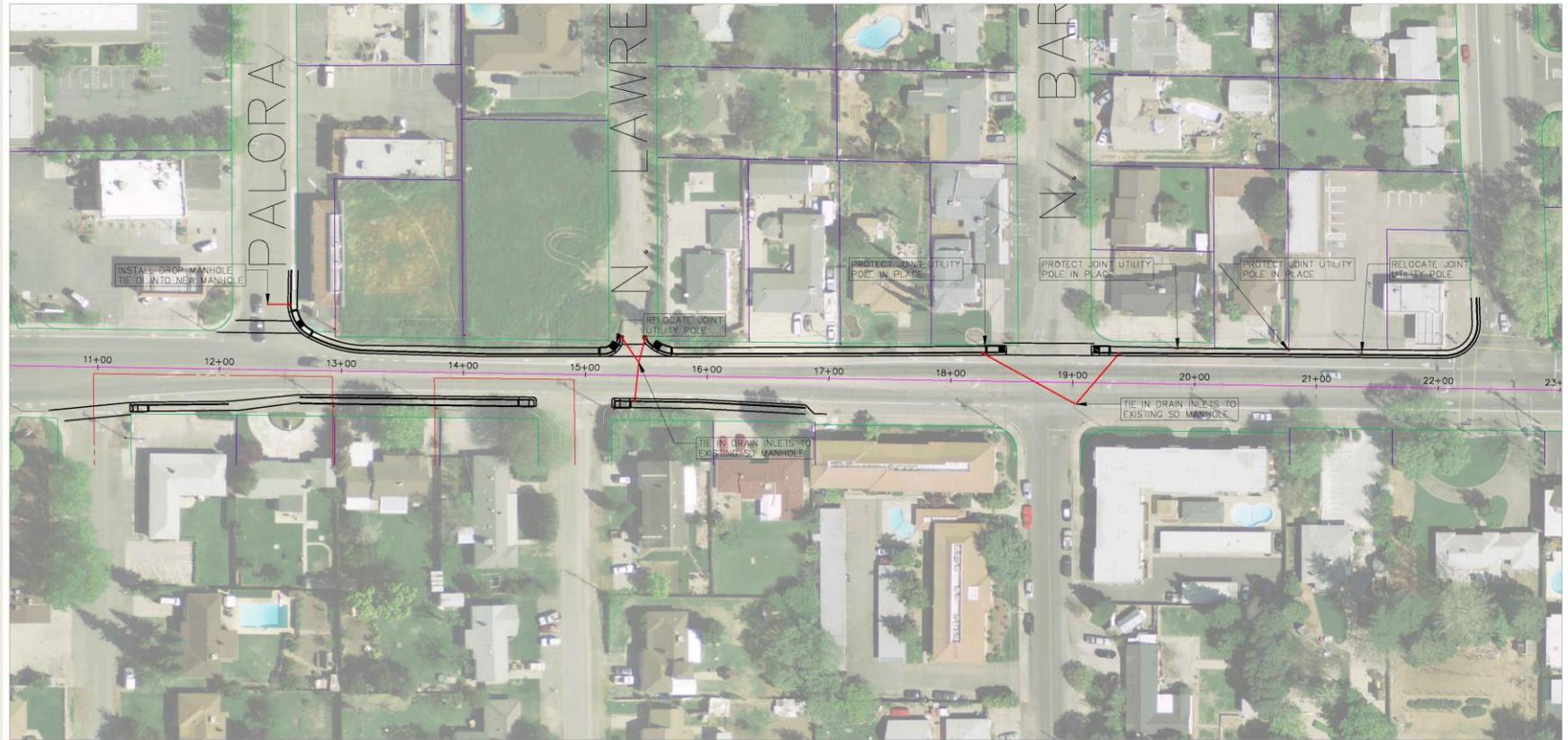
- **State Active Transportation Program (ATP)** – (State Wide Competition) Funding for projects that promote active modes of transportation (Biking/Walking), Includes Safe Routes to School projects, Statewide application
 - (2014) 1st Cycle
 - (2015) 2nd Cycle

* Release of Future Cycles are currently unknown due to future legislature
- **Regional ATP** – (Regional Competition) Funding for projects that promote Biking/Walking, Safe Routes to School, SACOG Regional 6 Counties
 - **Cycle 1 Application Funded - Franklin Road Improvements (2014 – \$368,000)**
- **SACOG Bicycle & Pedestrian Funding Program** – (Regional Competition) Projects that promote bicycling and pedestrian traffic, air quality, and improved quality of life - Sacramento, Sutter, Yolo, Yuba Counties
 - **Cycle 2 Application Funded - Franklin Ave Pedestrian Improvements (2015 - \$376,200) –Funded**
 - Past success with bike lane projects along Butte House Road

Franklin Road Improvements Harding Rd. to Walton Ave.



Franklin Avenue Pedestrian Improvements



Grant Success



- **Community Design Funding Program** – Implementation of SACOGs Blueprint principles (11.47% Match); \$100,000 or competitive projects.
 - Highway 20 Principles (2013) (\$100,000)
 - Highway 20 Implementation (2014) (\$100,000)
 - Highway 20 Revitalization (2015 - \$1,770,000): Not Funded
- **Regional/Local Funding Program** – Projects that develop region wide transportation projects.
 - 5th Street Bridge (\$17.4M)
 - Bogue Road Rehabilitation (\$433K)
- **FRAQMD – Blue Sky Grants** – Provides funds to reduce emissions to improve air quality
- **CALRECYCLE Rubberized Pavement Grant** – Provides funding to offset costs of installing rubberized pavement or rubber chip seals using California recycled waste tires. (\$0.50/SY)
 - 2013 Residential Resurfacing: Funded
 - 2015 Resurfacing Application: Pending

Future Applications



- Grant Type – Project determination that will meet the grant goals
 - Priorities:
 - Improving hazardous locations
 - School zone improvements
 - Projects that implement the Bike Master Plan / General Plan
- Future potential candidates
 - Bike Master Plan projects
 - Extending the Bike Path from Harter Parkway to Hooper Road
 - Widening the Bike Path to meet current width standards
 - School Zones
 - Public Requests
 - Sidewalks along El Margarita Road
 - Widen Bunce Road



CITYWIDE TRAFFIC MODEL UPDATE

Citywide Traffic Model Update



- City's Traffic Model prepared in 2004
- Periodically updated since with various projects
- Roadway Network based on General Plan
- Model is used as basis for Traffic Impact Studies

Citywide Traffic Model Update

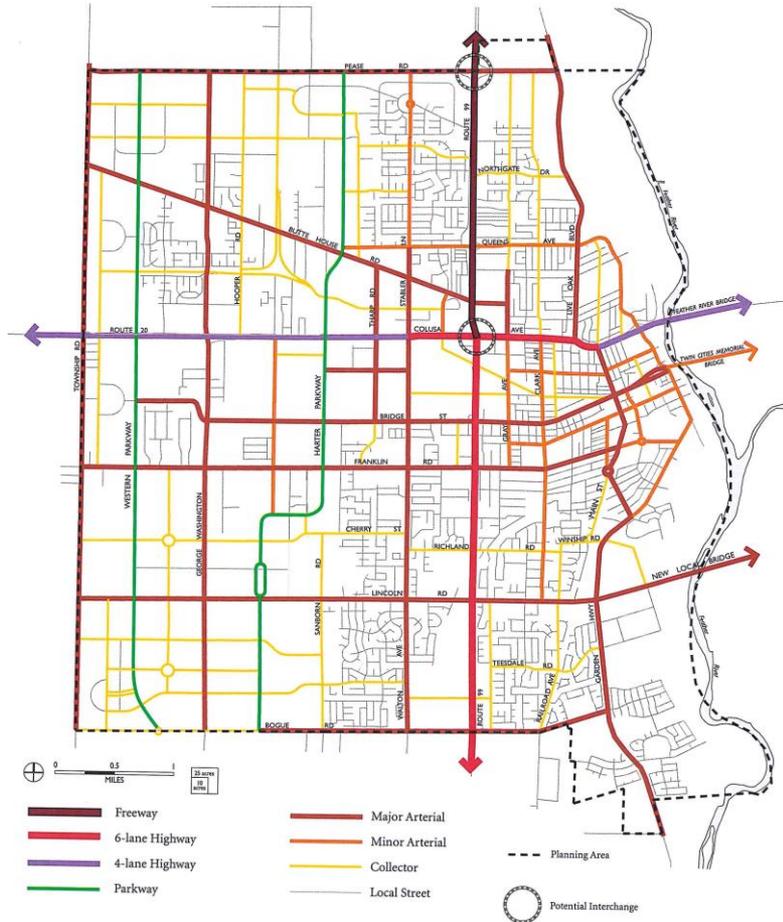
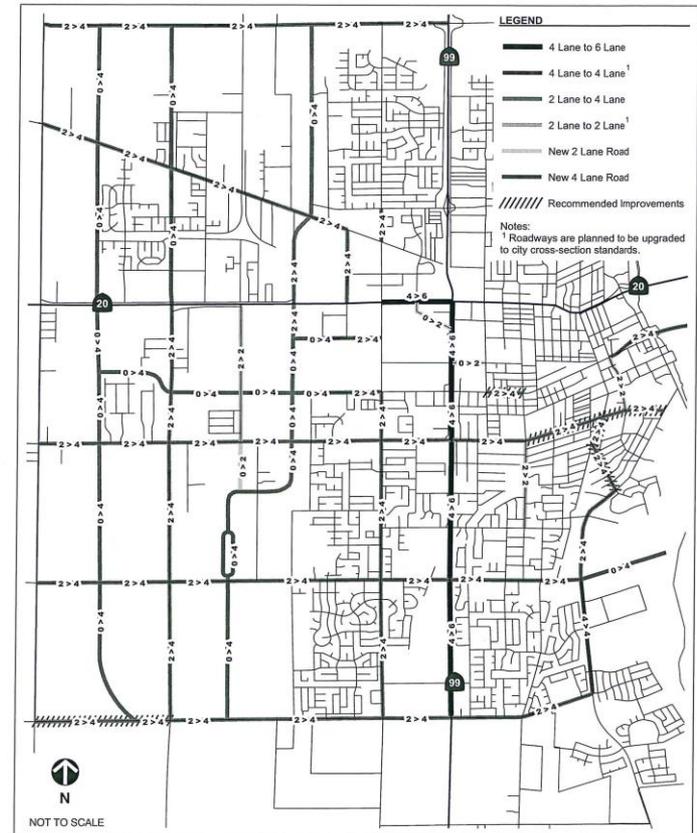


Figure 5-1
Roadway Network



fp
FEHR & PEERS
TRANSPORTATION CONSULTANTS
R:\Projects\85002\City_Update\GIS\Final\ES-1.mxd

ROADWAY IMPROVEMENTS BETWEEN
EXISTING CONDITIONS AND
GENERAL PLAN BUILDOUT
FIGURE ES-1

Citywide Traffic Model Update

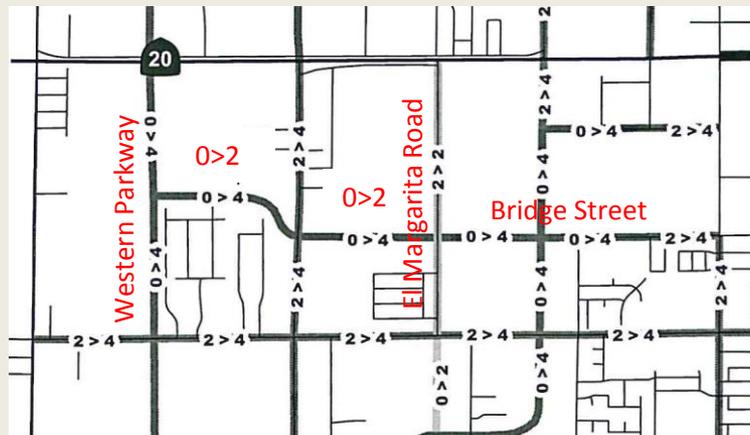


- Reasons for Update:
 - Re-assess growth projections
 - Update traffic count data and land uses
 - Evaluate need for 4-lane arterials all the way to edges of Sphere of Influence
 - Update Road Impact Fee Cost Estimates
- Estimated Cost for Update - \$200,000

Citywide Traffic Model Update



- Example – El Margarita Master Plan
 - General Plan
 - Bridge Street 4 lanes – Begins at Western Parkway
 - Updated Analysis
 - Bridge Street 2 lanes – Western Parkway to El Margarita Road
 - Bridge Street 4 lanes – East of El Margarita Road



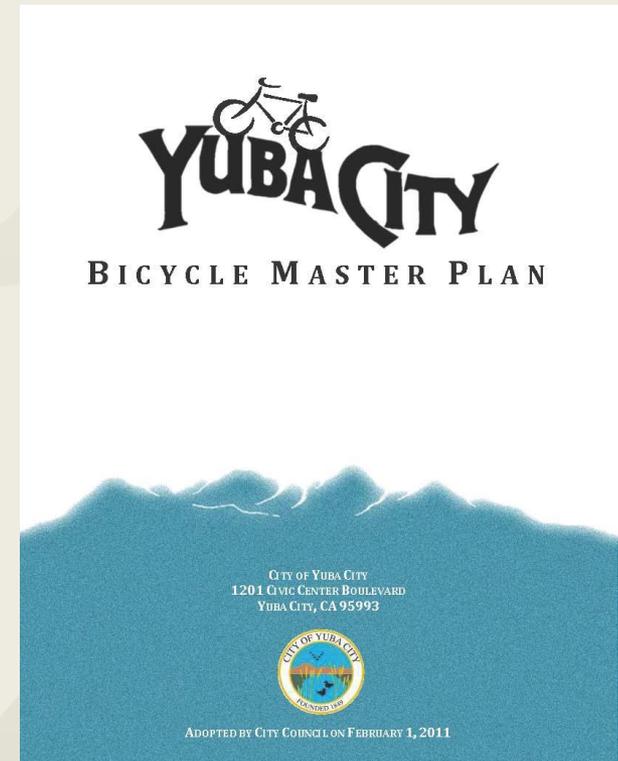


BICYCLE MASTER PLAN IMPLEMENTATION

Bicycle Master Plan



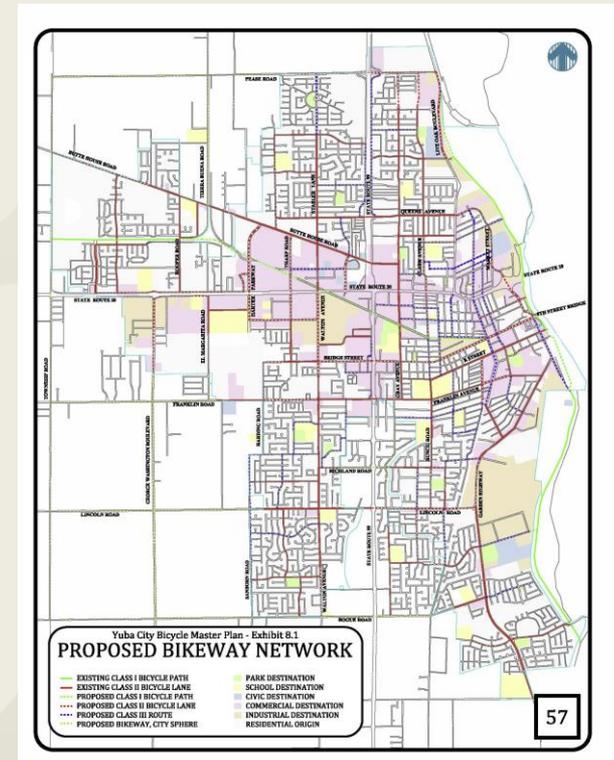
- Adopted February 1, 2011
- Accomplishments
 - Logged 98,765 miles since 2011 during May is Bike Month
 - Added:
 - 14 Miles – Class II Bike Lanes
 - 15.6 Miles – Class III Bike Routes
 - 176 Sharrows
 - 68 Bike Parking Docks



Bicycle Master Plan



- Upcoming Projects
 - Update Bicycle Master Plan
 - Develop Safety Campaign
 - Prioritize Remaining Projects
 - Develop Strategy for Implementation of Difficult Projects





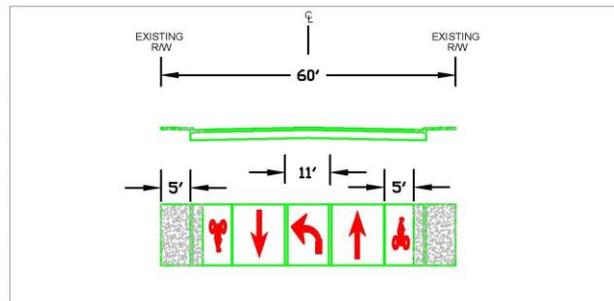
LOCAL TRANSPORTATION PROJECTS

Current Road Projects



- Garden Highway – Winship Rd to Lincoln Rd
- Bogue Road Rehabilitation – Railroad Avenue to Garden Highway

Garden Highway – Winship Road to Lincoln Road

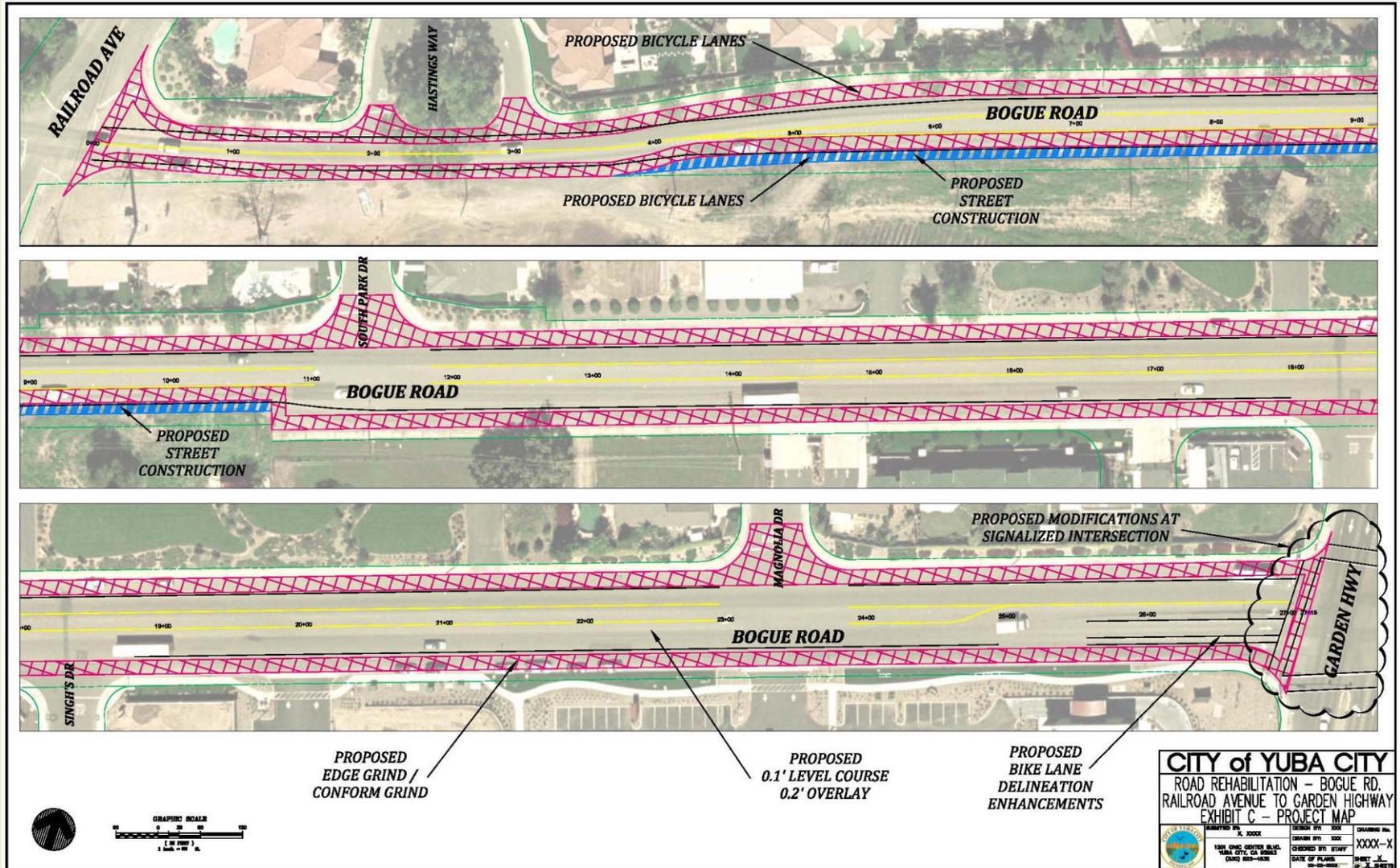


Garden Highway – Winship Road to Lincoln Road



- Schedule
 - Approve Plans, Specifications, & Estimates – Council 3/15/16
 - Submit Authorization Package to Caltrans - 3/17/16
 - Bid Project – April/May 2016
 - Award – June 2016
 - Construction - Summer 2016
- Estimated Cost - \$2.0M
- Funding Sources
 - Federal – CMAQ (\$680,000)
 - Road (TDA) (\$500,000)
 - DIF (\$600,000)
 - CDBG (\$100,000)
 - Water (\$100,000)
 - Wastewater (\$40,000)

Bogue Road Rehabilitation



PROPOSED
EDGE GRIND /
CONFORM GRIND

PROPOSED
0.1' LEVEL COURSE
0.2' OVERLAY

PROPOSED
BIKE LANE
DELINEATION
ENHANCEMENTS

CITY of YUBA CITY
ROAD REHABILITATION - BOGUE RD,
RAILROAD AVENUE TO GARDEN HIGHWAY
EXHIBIT C - PROJECT MAP

DESIGNED BY S. BOCK	DRAWN BY S. BOCK	CHECKED BY S. BOCK	DATE OF PLOTTING 08-08-2024
1500 OHMS CENTER LEVEL YUBA CITY, CA 95964 (916) 838-1000	PROJECT NO. XXXX-X	SHEET NO. XX	TOTAL SHEETS XX

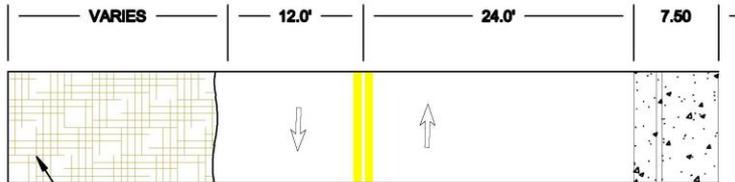


Bogue Road Rehabilitation



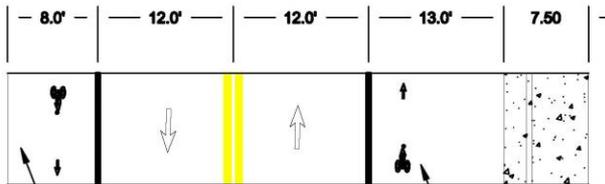
BOGUE ROAD EAST OF RAILROAD AVENUE

EXISTING



EXISTING UNIMPROVED SHOULDER

PROPOSED



PROPOSED BICYCLE LANE

PROPOSED BICYCLE LANE

PROPOSED SHOULDER WIDENING
BICYCLE LANES

PROPOSED BICYCLE LANES



PROPOSED SHOULDER WIDENING
BICYCLE LANES

CITY of YUBA CITY			
ROAD REHABILITATION - BOGUE RD. RAILROAD AVENUE TO GARDEN HIGHWAY EXHIBIT D - BOGUE ROAD, E/RAILROAD			
DESIGNED BY: S. XXXXX	DRAWN BY: XXX	CHECKED BY: STAFF	DRAWING No. XXXX-X
1201 CHAG CENTER BLVD. YUBA CITY, CA 95993 (916) 852-4622	DATE OF PLANS: 05-05-2008	SHEET X OF X SHEETS	

Bogue Road Rehabilitation



- Schedule
 - Submit Authorization Package to Caltrans - May 2016
 - Approve Plans, Specifications, & Estimates - 5/17/16
 - Bid Project – June/July 2016
 - Award – August 2016
 - Construction – Fall 2016
- Estimated Cost - \$733,000
- Funding Sources
 - Federal – RSTP (\$433,000)
 - Road (\$300,000)

Projects Completed Since 2011



- Western Parkway/SR 20 Intersection
- Queens Avenue/SR 99 Improvements
- King Avenue Safe Routes to School
- Garden Highway Complete Streets Rehabilitation – Franklin Road to Winship Road
- Road Rehabilitation
- Residential Resurfacing
- LED Streetlight Conversion
- 1301 Tharp Road Improvements

Projects Completed Since 2011



- Drainage Improvements
 - Helen Avenue
 - Rockholt Way
- ADA Improvements
 - ADA Self-Evaluation & Transition Plan
 - Live Oak Boulevard
 - CDBG Sidewalk Improvements
 - Plumas Boulevard Median @ Town Square
- Traffic Signals
 - Harter Parkway/Butte House Road
 - B Street/Second Street



PRIORITIZE PROJECTS

Road Fund Priority



Project	Estimated Cost
Road Rehabilitation	\$5,900,000 Annually
Garden Highway Improvements	\$500,000
Bogue Road Rehabilitation	\$300,000
Franklin Road Pedestrian Improvements – Harding Rd. to Walton Ave.	\$130,000
ADA Improvements	\$300,000 Annually
Storm Drain Improvements	\$200,000 Annually
Traffic Signals	\$150,000 Annually
Striping	\$100,000 Annually
Total:	\$7,580,000
Average Annual Road Funds Available:	\$1,600,000

Developer Impact Fee Priority



Project	Estimated Cost
Bridge Street Widening – Alt. A-2A	\$7,550,000
SR 99/SR 20 Interchange PSR-PDS	\$292,000
Pease Rd/SR 99 Interchange PSR	\$300,000
Fifth Street Bridge – Local Portion*	\$2,600,000
Citywide Traffic Model Update**	\$200,000
Tuly Road Extension	\$800,000
Total:	\$11,742,000
Total Impact Fees Available:	\$4,758,000

*Local Portion to be split between Sutter County, Yuba County, Marysville, and Yuba City

**Funds already programmed in FY 15/16 Capital Improvement Program



FUNDING OPTIONS

Funding Approaches



- Grants focused on “Complete Streets”
- New legislation
- Revenue Measure

WRAP UP

Questions?

