

# Tulare County Bridge Improvement Program

Presented by the
Tulare County Resource Management Agency
Bridge Team
November 19, 2019



#### Presentation Outline

- 1. Current Program Overview
  - HBP Program and Changes
  - County Bridge Improvement Program
- 2. Currently Programmed Projects
- 3. New Candidate Bridge Projects (Over 20-ft)
- 4. BPMP Update
- Measure R Funded Under 20-ft BPMP
- 6. Program Cost Summary
- 7. Recently Completed Projects
- 8. Tulare County Bridge Program Summary
- 9. Comments, Questions and Discussion



#### **Highway Bridge Program (HBP) and Changes**

- Caltrans Serves as Delegated Authority
  - Perform biennial inspections of all County bridges (over 20-ft)
  - Inspect, assess and rate County bridge inventory
  - Health assessment via sufficiency rating and status
  - Structurally Deficient (SD) vs. Functionally Obsolescent (FO)







#### **Highway Bridge Program (HBP) and Changes**

- Old Programming Procedures
  - 300 million allocated annually to Local Agency bridges
  - First come, first served
  - SD and FO eligible
  - Caltrans overcommitted funds, resulting in backlog of projects
- New Programming Procedures
  - 300 million allocated annually to Local Agency bridges (no change)
  - Agencies submit applications for new bridges
  - Must qualify as candidate for Project Prioritization List
  - Project Prioritization List published every two years, ranking bridges Statewide using prioritization criteria
  - Ranking on Prioritization List dictates project funding



#### **Highway Bridge Program (HBP) and Changes**

- Results from 2018 Project Prioritization List
  - In 2016, County submitted 22 new bridge applications
  - 16 of 22 applications deemed eligible
  - Only 2 of 16 eligible projects received fund allocation
    - M109 White River Bridge Project
    - Avenue 152 Tule River Bridge Project
- 2020 Project Prioritization List (PPL)
  - Applications due November 30<sup>th</sup>
  - County will re-submit 14 projects not selected from 2018 PPL
  - 5 additional project applications to be submitted
    - Increase chances of funding selection
    - Future project funding will be limited



#### **Bridge Improvement Program**

9 Completed Bridges

#### **SINCE 2012**

- M319 Kaweah River
- Ave 416 Kings River
- Rd 56 Packwood Creek
- D39 Traver Canal
- M220 Rancheria Creek
- Rd 148 Outside Creek
- Rd 182 Deep Creek
- Rd 224 Deer Creek
- D129 Sand Creek

- 28 Bridges Currently in Program
  - 14 Bridges in Design (Received Funds)
  - 14 Candidate Bridge Projects (2018 PPL Awaiting Funds)





#### **Bridge Improvement Program**

- Active Construction Projects (Supplemental Projects)
  - Avenue 416 Kings River Bridge Riparian Re-vegetation and Restoration Project (plant establishment complete)
  - M319 Kings River Bridge Riparian Re-vegetation and Restoration Project (plant establishment complete)
  - D39 over Traver Canal Bridge Riparian Re-vegetation and Restoration Project (planting completed in January 2019)
- RFP out earlier this year for Consulting services
  - Mountain Road 109 (M109) over White River Bridge







## Currently Programmed Projects 8

Funded Projects - In Design
-----------------------------

- M348 S. Fork Kaweah River\*
- 2. Ave 364 Cottonwood Creek\*\*
- 3. Ave 392 Sand Creek\*\*
- Ave 424 Traver Canal\*\*
- 5. Road 204 Wutchumna Ditch\*\*
- 6. D112 Bates Slough
- D112 N. Branch Tule River
- Ave 376 Traver Canal 8.
- Ave 428 Sand Creek
- 10. Ave 108 Lakeland Canal
- 11. M375A Mineral King
- 12. Ave 174 Friant-Kern Canal
- M109 White River 13.
- Ave 152 Tule River

#### **Total Cost Start Construction** Match

None	Winter 2020
None	Fall 2020
None	Fall 2020
None	Fall 2020
None	Winter 2020
\$186k	Fall 2021
None	Fall 2021
None	Fall 2022
None	Fall 2023
\$425k	Fall 2024
\$1.84m	Fall 2025
	None None None \$186k None None None None None None None None

\$57,374,000

\$2,446,000 (4.3%)

TOTAL

<sup>\*</sup> Project Ready for Construction

<sup>\*\*</sup> Project Design Nearly Complete



## New Candidate Bridge Projects 9

AUAG					
202	20 Prioritization List Applicants	Flag	Total Cost	Local Match	ADT
1.	Road 16 over Homeland Canal (A)	SD	\$1,516,000	None	175
2.	Road 16 over Homeland Canal (B)	SD	\$1,305,000	None	175
3.	Ave 120 over Friant-Kern	SD	\$1,777,000	None	50
4.	Ave 32 over Friant-Kern	SD	\$1,777,000	None	150
5.	D238 over Deer Creek	FO	\$6,065,000	None	3,700
6.	Road 204 over Friant-Kern	FO	\$2,488,000	\$285,000	8,800
7.	Ave 196 over Friant-Kern	FO	\$2,227,000	\$255,000	2,650
8.	Springville Ave over Porter Slough	FO	\$2,440,000	\$280,000	3,650
9.	Road D112 over Elk Bayou	FO	\$1,780,000	None	1,200
10.	Road D112 over N. Branch Tule	FO	\$2,400,000	None	1,100
11.	Road 138 over Alta Canal	FO	\$948,000	None	100
12.	M220 over Bear Creek	FO	\$629,000	None	220
13.	D152 over Murray Creek	FO	\$835,000	None	95
14.	Ave 436 over Friant-Kern	FO	\$2,912,000	None	50
15.	M276 Kramer Creek	SD	\$1,422,000	None	100
16.	Ave 432 Friant-Kern Canal	SD	\$4,208,000	None	200
17.	Ave 268 Friant-Kern Canal	SD	\$3,321,000	None	510
18.	Ave 394 Friant-Kern Canal	SD	\$2,044,000	None	40
19.	Ave 404 Cottonwood Creek	SD	\$1,832,000	None	45

Note: These 19 projects do not have fund allocation

TOTAL \$41,100,000 \$820,000 (1.99%)



#### **BPMP** Update

# Bridge Preventive Maintenance Program (BPMP) (Bridges <u>over 20-Feet</u>, Federally Funded)

	Total Cost	Local Match	
Group 1 - Methacrylate Treatments	\$1,224,000	\$140,000	
Group 2 - Joint Seal Replacements	\$1,239,000	\$142,000	
Group 3 - Miscellaneous Deck Work	\$1,683,000	\$193,000	
Group 4 - Paint & Spall Repairs	\$3,312,000	\$380,000	
Group 5 - Scour & Slope Protection	<u>\$4,567,000</u>	<u>\$524,000</u>	
Total	\$12,025,000	\$1,379,000	(11.47%)

- Out of 358 total bridges, 91 eligible for preventive work
- Design funds for Groups 1 & 5 are pending
- Assuming Group 1 funds issued by January 2020, work anticipated to start Spring of 2021
- One group completed each year (total of 5 years to complete BPMP)



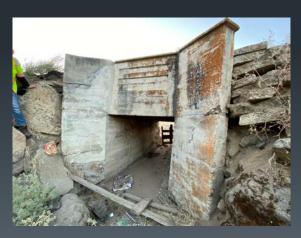
## Measure R Projects

#### Bridge Preventive Maintenance Program (BPMP) (Bridges <u>under 20-Feet</u>, Measure R Funded)

- \$250,000 allocated by Measure R to Develop and Implement Plan
- 1st step Collecting data and inspecting County's inventory
  - Pipe Crossings (over 3-ft in diameter)
  - Concrete Box Culverts
  - Timber bridges





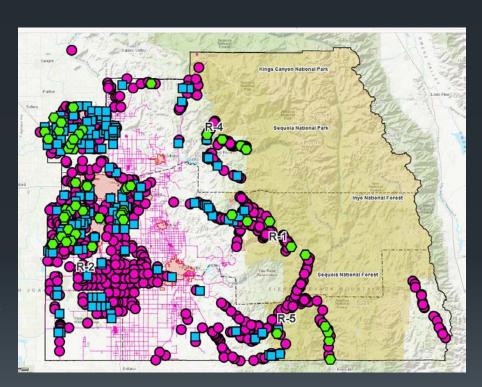




## Measure R Projects

## Bridge Preventive Maintenance Program (BPMP) (Bridges <u>under 20-Feet</u>, Measure R Funded)

- 75% of maintained roads inspected
- Data collection complete by 2020
- Work orders
  - Prioritize all work items
  - Preventive vs. Routine
     Maintenance
- Objectives
  - Establish inventory of all structures under 20-feet
  - Develop procedures to implement routine inspections
  - Identify maintenance work items and associated costs
  - Evaluate structural condition and develop rehabilitation/replacement priority list



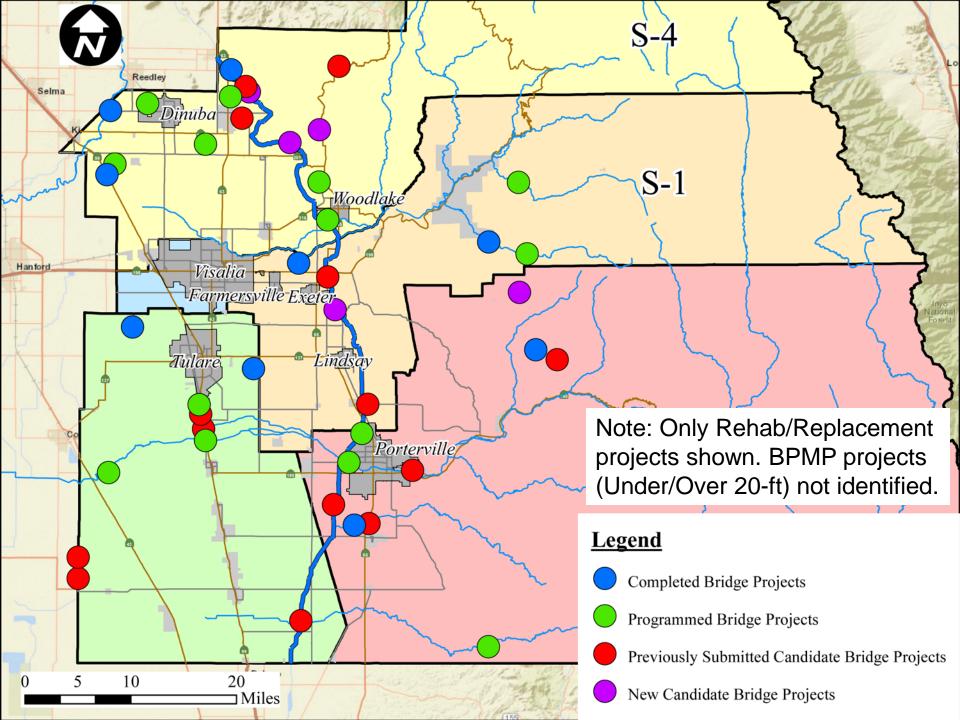
Total Project Cost | Local/Measure R Cost



## **Program Cost Summary**

#### **Cost Summary of Projects**

		Total FTOJECT COST	LUCal/IVICasuri	e IX Cost
1.	14 Programmed HBP Bridges	\$57,374,000	\$2,446,000	(4.3%)
2.	19 HBP Candidate Projects	\$41,100,000	\$820,000	(2.0%)
3.	HBP BPMP (Over 20-ft)	\$12,025,000	\$1,379,000	(11.47%)
4.	(Under 20-ft) Develop BPMP	\$250,000	\$250,000	(100%)







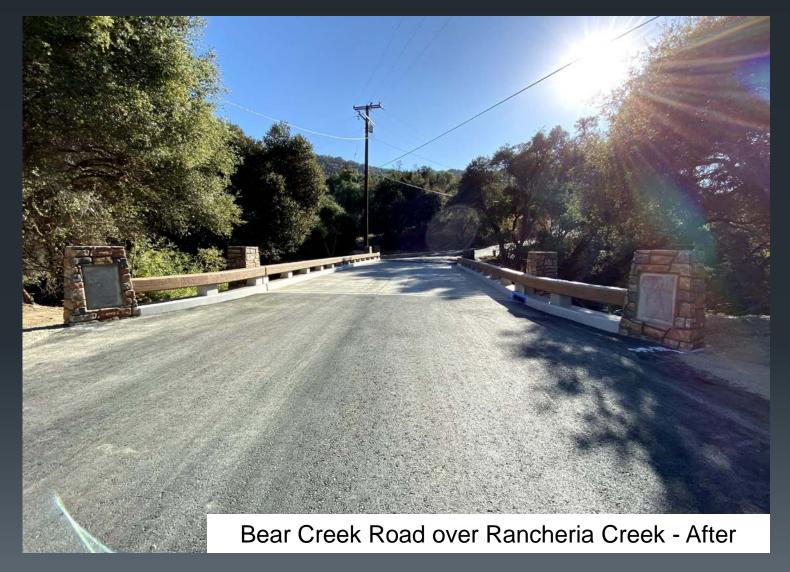


















#### Bridge Program Summary

#### Requests

Approve five (5) new bridge applications for 2020 Prioritization List

#### **Goals & Expectations**

- 14 bridges currently in design advance to construction (within next 6 years)
- 19 additional projects started (within next 10 years)
- BPMP (over 20-ft) design finalized and sizeable portion of group work constructed (within next 5 years)
- Complete maintenance inventory for locally funded bridges (under 20-ft)
  - Initiate procedures for routine inspection and maintenance (ongoing)
  - Establish list of potential rehab/replacement projects (within next year)
- Continue coordination with FWA on subsidence issue (over next 3-5 years)

# Questions?