

Appendix A

Local Streets and Roads Project List

As required by the Road Repair and Accountability Act of 2017 – Local Streets and Roads Funding, Road Maintenance and Rehabilitation Account (RMRA)

General Information

Name: Unincorporated Contra Costa County

Point of Contact:

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Legislative Districts:

- Senate – 3, 7, 9
- Assembly – 11, 14, 15, 16

Jurisdiction's Average Network PCI and date/year of measurement:

- County Average PCI = 72 (as of September 2017)

Fiscal Year: 18/19

Rationale for Project List Selection for FY 18/19 RMRA allocation

Staff has developed a recommended list of projects for the Transportation Water and Infrastructure Committee and the Board of Supervisors to consider for submitting to the Commission.

When developing the recommended project list for RMRA funds, staff considered:

- Eligibility criteria for RMRA funds
- Emergency storm damage projects that exceeded existing road fund revenue capacity
- Maintenance and rehabilitation priorities
- Roadway safety
- Expiring grants where local funds are necessary to complete the funding package
- Geographic equity
- Projects where expenditures had already occurred for design of the project and had been shelved due to declining revenues
- Multi-modal benefits in accordance with the Board of Supervisor's Complete Streets policy
- Positive impact to Road Program performance metrics
- Clearing the queue of delayed projects that were a result of declining gas tax revenues
- Meeting customer expectations

It should be noted that this project list is a small subset of the proposed project delivery list that is outlined in the adopted Capital Road Improvement and Preservation Program document and only focuses on how the RMRA funds will be expended as required by the Commission.

PROPOSED PROJECTS (Total RMRA = \$13.8M)

Proposed Project 1: Road Drainage Maintenance (RMRA = \$1.1 M)

Description:

- **Ditch Cleaning** – This routine maintenance item is to perform drainage ditch cleaning from flood control channels and ditches to remove debris and vegetation which may obstruct the passage of stormwater and cause local flooding. (RMRA = \$200k) County Project No.: 0672-6U2303
- **Clean Catch Basin** – This routine maintenance item is to perform cleaning of sediment and prevent obstructions of catch basins (drainage inlets) and related pipe systems. The county has over twenty thousand catch basins throughout the unincorporated portions of the County. (RMRA = \$600k) County Project No.: 0672-6U2308
- **Inspect Catch Basin** – This routine maintenance item is to perform inspections of catch basins and associated systems. This includes a visual inspection of the drainage inlet and any clean water inserts. Follow-up video inspections may be required for deeper inlets and/or suspected structural issue concerning the inlets. (RMRA = \$300k) County Project No.: 0672-6U2308
- RMRA Priority: Road Maintenance and Rehabilitation

Location:

- Countywide
- Latitude: 37.7° to 38.1°
- Longitude: -121.5° to -122.4°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 15 - 40 years (ditch – dirt roadway to concrete V-ditch)
- 40 years (concrete structures)

Proposed Project 2: Traffic Safety Devices Maintenance (RMRA = \$800k)

Description:

- **Traffic Signing** – This routine maintenance item is to perform sign repair, replacement, and installation along the unincorporated County roadways. (RMRA = \$300k) County Project No.: 0672-6U2504

- **Traffic Striping** – This routine maintenance item is to perform new painting, routine painting and replacement of pavement striping along the unincorporated County roadways to enhance public safety. (RMRA = \$500k) County Project No.: 0672-6U2504
- RMRA Priority: Road Maintenance and Rehabilitation

Location:

- Countywide
- Latitude: 37.7° to 38.1°
- Longitude: -121.5° to -122.4°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 10 years (roadway signage)
- 2 - 4 years (roadway striping - thermoplastic)

Proposed Project 3: Pavement Repairs and Preparation (RMRA = \$5.0M)

Description:

- **Pot Hole Patching** – This routine maintenance item is to perform spot pavement repairs of pot holes along the unincorporated County roadways to eliminate surface hazards. (RMRA = \$700k) County Project No.: 0672-6U2101
- **Pavement Fabric Patching** – This routine maintenance item is to perform pavement fabric patching along the unincorporated County roadways to correct minor pavement defects and prevent further cracking. The patch will remove an area of existing damaged asphalt and excavate to the roadway fabric portion. The roadway base will be compacted and leveled to support the new fabric layer and asphalt layer. (RMRA = \$500k) County Project No.: 0672-6U2102
- **Pavement Failure Repair - Backhoe** – This routine maintenance item is to conduct pavement failure repair along the unincorporated County roadways. This task requires the removal of a larger area of cracked or damaged pavement with a backhoe. The roadway base will be compacted and overlaid with new asphalt. (RMRA = \$600k) County Project No.: 0672-6U2103
- **Pull Box Paving** – This is a roadway paving operation to place asphalt on localized roadway depressions to provide a smooth riding surface for the motorized public along the unincorporated County roadways. (RMRA = \$625k) County Project No.: 0672-6U2104
- **Hand Patching** – This is similar to pot hole patching to conduct spot pavement repairs along unincorporated County roadway, but on a smaller scale. (RMRA=\$600k) County Project No.: 0672-6U2105

- **Crack Sealing** – This pavement preservation task is to seal cracks in the roadway. Cracks are typically filled in to seal the roadway structural section from water penetration. The goal is to prolong the service life of the pavement and/or prepare the roadway surface for an overlay. (RMRA = \$700k) County Project No.: 0672-6U2106
- **Leveling** – This task is associated with leveling of large settlements, depressions, surface irregularities and recent large pavement repairs. This is to provide a smooth riding surface for the motorized public along unincorporated County roadways. (RMRA = \$500k) County Project No.: 0672-6U2107
- **Grinder Follow-up Paving** – This task is associated with placing roadway asphalt on localized settlements and pavement repairs. This is conducted as a follow-up to grinding operations to provide a smooth riding surface. (RMRA = \$80k) County Project No.: 0672-6U2107
- **Pavement Failure Repair – Grinder** – This task is to remove badly cracked or broken pavement. The roadway is then replaced with new asphalt and roadway base rock. This task supports pavement preservation operations and also extends the service life of the roadway pavement. (RMRA = \$600k) County Project No.: 0672-6U2123
- **Pavement Grinding – Bobcat** – This task is to remove flaws and tripping hazards in the roadway or curb edge through machine grinding. (RMRA = \$90k) County Project No.: 0672-6U2108
- RMRA Priority: Road Maintenance and Rehabilitation

Location:

- Countywide
- Latitude: 37.7° to 38.1°
- Longitude: -121.5° to -122.4°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 7 years (pavement surface treatment)

Proposed Project 4: County-Wide Surface Treatments (RMRA = \$5.3M)

Countywide:

Description:

- **Double Chip Seal Project (2018)** – This project will apply a double chip seal to various roads as a pavement preservation project in the unincorporated Contra Costa County. Work will also include surface preparation and pavement striping and markings. (RMRA = \$1.30M) County Project No. 0672-6U2162

- **Slurry Seal Project (2018)** – This project will apply a slurry seal to various roads as a pavement preservation project in the unincorporated Contra Costa County. Work will also include surface preparation and pavement striping and markings. (RMRA = \$500k) County Project No. 0672-6U2163
- **Single Chip Seal Project (2018)** – This project will apply a single chip seal to various roads as a pavement preservation project in the unincorporated Contra Costa County. Work will also include surface preparation and pavement striping and markings. (RMRA = \$500k) County Project No. 0672-6U2162
- RMRA Priority: Road Maintenance and Rehabilitation

Location:

- Countywide (Bay Point and Central County)
- Latitude: 37.7° to 38.1°
- Longitude: -121.5° to -122.4°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

7 years (pavement surface treatment)

Bay Point Area and Central County:

- **Asphalt Rubber Cape Seal Project (2018)**

Description:

- The project will apply an asphalt rubber chip seal covered with a type II slurry seal to various roadways in the Bay Point (76 streets), Martinez (6 streets), Walnut Creek Overlook (24 streets), Parkmead (33 streets) areas and a type II slurry seal on roadways in Bay Point and Clyde areas (18 streets) and the Bella Vista and Clyde Trails. Work will also include surface preparation and pavement striping and markings. (RMRA = \$3M) County Project No. 0672-6U2154
- RMRA Priority: Road Maintenance and Rehabilitation

Location:

- Cape Seal: Bay Point (76 streets), Martinez (6 streets), Walnut Creek Overlook (24 streets), Parkmead (33 streets)
- Slurry Seal: Bay Point and Clyde areas (18 streets) and the Bella Vista and Clyde Trails

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 7 years (pavement surface treatment)

Proposed Project 5: Pomona Street Pedestrian Safety Improvement Project – Phase II (RMRA = \$175k)

Description:

- The project will improve two pedestrian crossings on Pomona Street near three schools and a community center. At Pomona Street and 3rd Avenue, Pedestrian-Actuated Rectangular Rapid-Flashing Beacons (RRFB) and other pedestrian improvements will be added. At Pomona Street and Rolph Avenue, bulb outs and ramps will be added. County Project No. 0622-6U4090
- RMRA Priority: Complete Streets Components

Location:

- Pomona Street at 3rd Avenue
 - 38.052399°, -122.222940°
- Pomona Street at Rolph Avenue
 - 38.052394°, -122.219860°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 50 years (concrete)
- 12 years (RRFB)

Proposed Project 6: Tara Hills Pedestrian Infrastructure Project (RMRA = \$420k)

Description:

- The project will construct 20+ ADA compliant curb ramps on the roads surrounding the Tara Hills Elementary School and North Campus Continuation High School. County Project No. 0662-6R4211
- RMRA Priority: Complete Streets Components

Location:

- Dolan Way, Flannery Road, Shamrock Drive, Tara Hills area
- 37.993478°, -122.316368°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 50 years (concrete)

Proposed Project 7: Pedestrian Crossing Enhancements Project – Central & East County (RMRA = \$350k)

Description:

- The project will install ten RRFB's at uncontrolled crosswalks at seven school sites in Central and East County. County Project No. 0662-6R4112
- RMRA Priority: Complete Streets Components

Location:

- 1 – Delta Road, Knightsen Elementary School, Knightsen area
 - 37°58'7.72"N 121°39'38.55"W
- 2 – Newport Drive, Timber Point Elementary School, Discovery Bay area crossing
 - Two crossing sites
 - 37°54'28.43"N 121°37'13.99"W
 - 37°54'19.35"N 121°37'10.82"W
- 3 – Willow Lake Road, Discovery Bay Elementary School, Discovery Bay area
 - 37°54'2.50"N 121°35'56.17"W
- 4 – Marina Road, Shore Acres Elementary School, Bay Point area
 - Two crossing sites
 - 38° 2'10.26"N 121°58'14.53"W
 - 38° 2'10.29"N 121°58'11.49"W
- 5 – Pacifica Avenue, Riverview Middle School, Bay Point area
 - Two crossing sites
 - 38° 2'2.52"N 121°58'2.55"W
 - 38° 2'2.53"N 121°57'56.32"W
- 6 – Castle Rock Road, Northgate High School, Walnut Creek area
 - 37°54'27.44"N 122° 0'25.22"W
- 7 – Magnolia Way, Parkmead Elementary School, Walnut Creek area
 - 37°53'13.37"N 122° 4'6.83"W

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 12 years (flashing beacons)

Proposed Project 8: Blackhawk Road Bikeway Project (RMRA = \$210k)

Description:

- The project will stripe a class 2 bike lane for 3.3 miles and class bikeway for 0.3 miles (a portion at each end of the project) and connect to existing class 2 and class 3 bikeways using thermoplastic striping. The bikeway will also use green pavement markings at transition areas. County Project No. 0662-6R4018
- RMRA Priority: Complete Streets Components

Location:

- Blackhawk Road, between Camino Tassajara and Mount Diablo Scenic Drive, Blackhawk/Danville area
- 37.799376°, -121.921493°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 2 - 4 years (thermoplastic striping)

Proposed Project 9: Alhambra Valley Road Embankment Repair (\$450k)

Description:

- The project will reconstruct the creek embankment and the roadway. The creek embankment that supported Alhambra Valley Road eroded during a severe storm event several years ago. Since then, traffic has been routed to one lane with stop control in both directions. The remainder of Alhambra Valley Road is a rural two-lane roadway winding through the hills between Martinez and Pinole. The proposed project length is about 800 feet with a road widening to support two 12-foot wide travel lanes and 4-foot shoulders for bicyclists. County Project No. 0662-6U4095
- RMRA Priority: Roadway Safety, Road Maintenance and Rehabilitation

Location:

- Alhambra Valley Road between Castro Ranch Road and Bear Creek Road
- 37.966073°, -122.207126°

Proposed Schedule for Completion:

- Anticipated construction year – 2018

Estimated Useful Life:

- 40 years (roadway re-construction)

NW:sr

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