

SUBJECT: AUTHORIZATION TO ADVERTISE FOR BIDS – 2013/2014 FISCAL YEAR MICRO-SURFACING PROJECT

SOURCE: Public Works Department - Engineering Division

COMMENT: Plans and Project Manual have been prepared for the 2013/2014 Fiscal Year Micro-Surfacing Project. The project is part of the City’s Measure ‘R’ street maintenance program, which consists of a durable thin asphalt overlay on several streets within the City. An important project component is the removal and replacement of severely distressed asphalt concrete. New pavement markings will be placed once each street receives the thin asphalt overlay. Streets and project limits are as follows:

- Date Avenue – Main Street to Orange Avenue
- Henderson Avenue – Main Street to Jaye Street
- Indiana Street – Olive Avenue to Putnam Avenue
- Jaye Street – SR 190 to Springville Avenue
- Main Street – SR 190 to Yates Avenue

Staff continues to actively update our Pavement Management System, which will allow for a more systematic approach to maintaining our arterial and collector streets. Each arterial and collector street within the City’s jurisdiction is given a “Pavement Condition Index” (PCI) between 0 and 100; 0 being the worst and 100 being the best. The pavement industry has established the following general pavement treatment guide as it relates to the PCI:

Pavement Treatment for Urban Major Roads	PCI Range
Do Nothing	90-100
Preventive Maintenance (e.g. slurry, chip seal, cape seal)	70-89
Thin Overlays (e.g. less than or equal to 2 inches)	50-69
Thick Overlays (e.g. more than 2 inches)	25-49
Reconstruction (e.g. remove and replace)	0-24

This year’s street maintenance program has been evaluated by staff and the PCI for each street is a follows:

Street	Limits	PCI
Date Avenue	Main Street to Orange Avenue	70
Henderson Avenue	Main Street to Jaye Street	87
Indiana Street	Olive Avenue to Putnam Avenue	89
Jaye Street	SR 190 to Springville Avenue	86
Main Street	SR 190 to Yates Avenue	83

The Engineering Division is targeting arterial and collector streets that have a PCI near or above 70 for micro-surfacing projects. Unfortunately, this is difficult to do with so many of our arterial and collectors having numerous severely distressed pavement areas. The complete list of City arterials and collectors with their respective PCI's is attached for Council's reference.

To pursue the cost effectiveness of micro-surfacing, the Engineering Division has identified the severely distressed areas for removal and replacement. Indiana Street and Date Avenue is one example of removing and replacing severely distressed areas prior to the placement of the micro-surfacing. This remedial action pulls the PCI up to or above the target of 70.

The Engineer's Estimate for the noted street projects is \$472,108.25. An additional \$33,047.58 is necessary for construction contingency (7%) and \$18,884.33 is required for construction management, quality control and inspection (4%). The total estimated cost associated with the project is \$524,040.16.

City Staff will provide construction management/inspection services and the City's on-call consulting firm, Consolidated Testing, with assistance from APART Inc., will provide quality control services (asphalt concrete aggregate sieve analysis, chip rock sieve analysis, sand equivalent testing, oil content confirmation, field confirmation of micro-surfacing mix design, etc.).

Measure 'R' is the funding source for this annual project and was approved in the 2013/2014 Annual Budget.

RECOMMENDATION: That City Council:

1. Approve Staff's recommended Plans and Project Manual;  
and
2. Authorize staff to advertise for bids on the project.

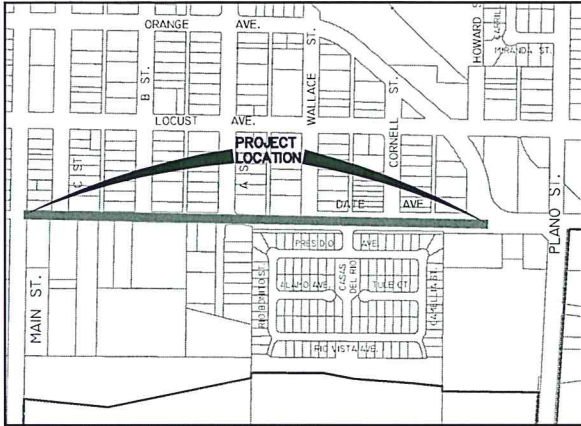
ATTACHMENTS: Locator Map (Date, Henderson, Indiana, Jaye, Main)  
City Arterial and Collector Map  
Engineer's Estimate

# 2013-2014 MICRO-SURFACING PROJECT

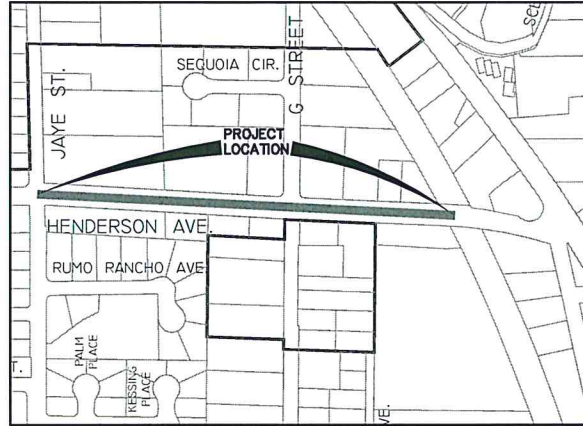
## CITY PROJECT NO. 89-9167



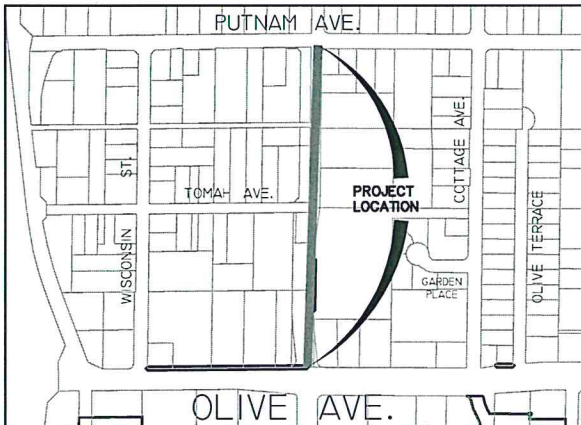
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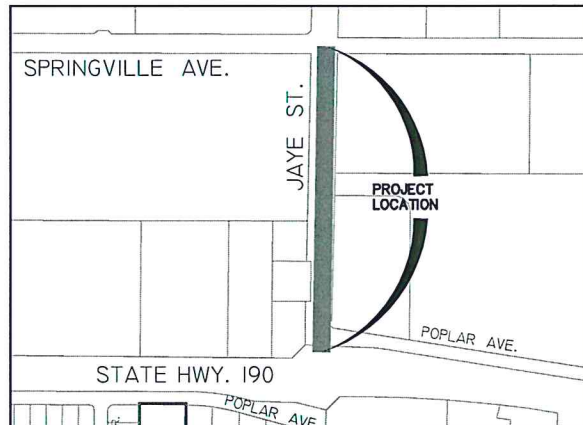
DATE AVENUE



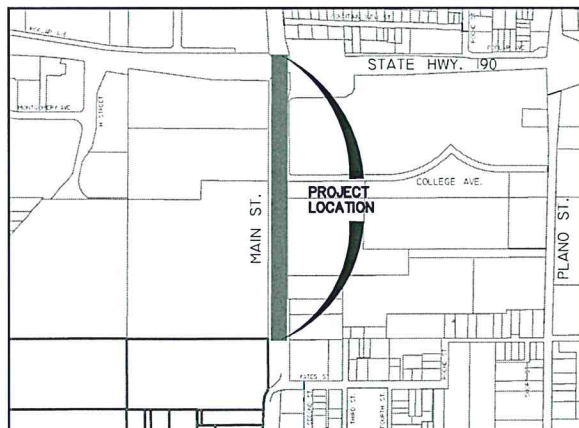
HENDERSON AVENUE



INDIANA STREET



JAYE STREET



MAIN STREET

**CITY OF PORTERVILLE**  
 ENGINEERING DIVISION  
 291 NORTH MAIN STREET  
 PORTERVILLE, CA. 93257  
 (559) 782-7462

**2013 - 2014 MICRO  
 SURFACING PROJECT  
 LOCATOR MAP**

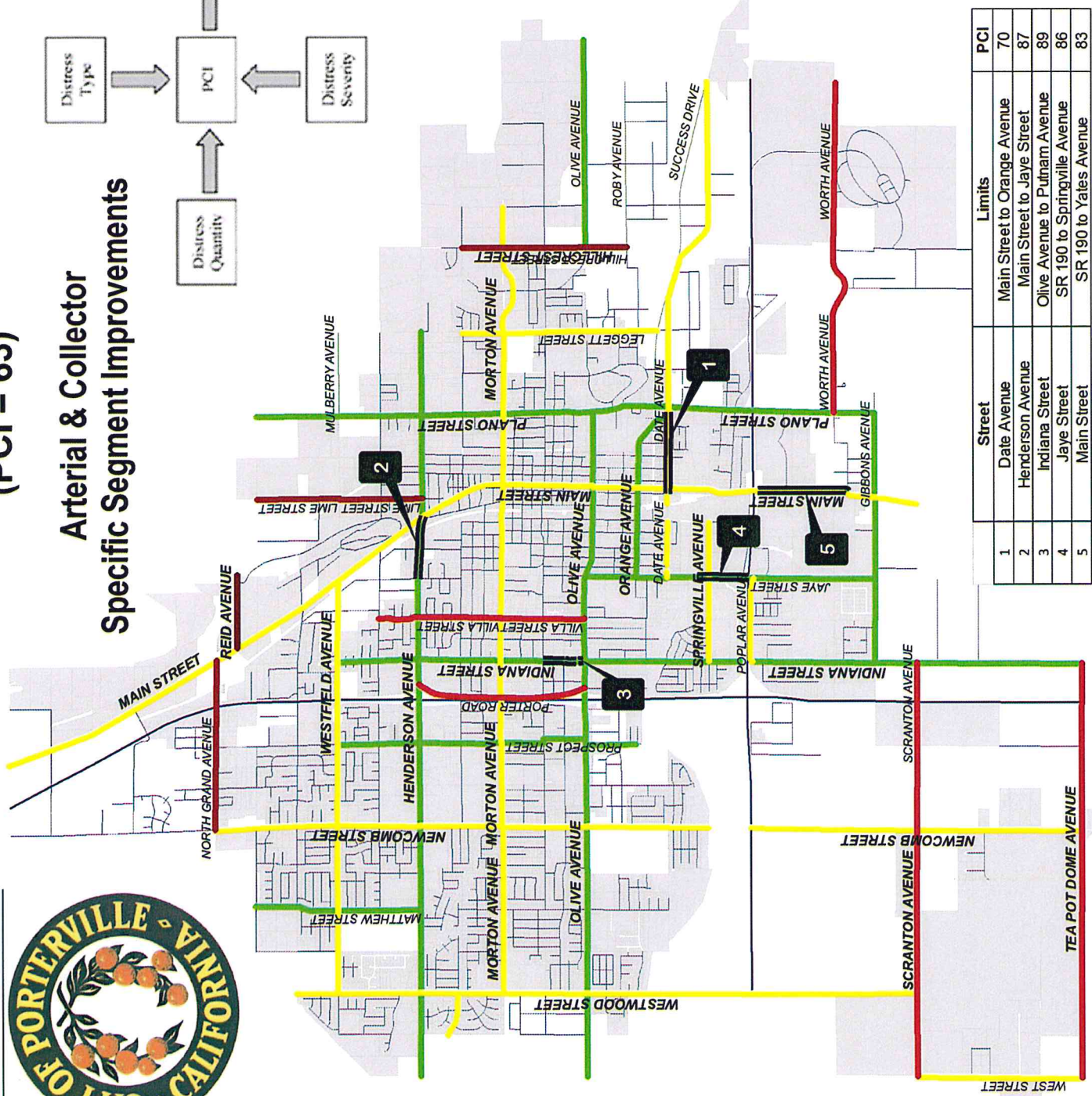
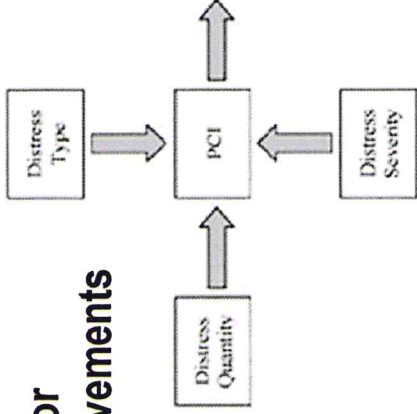
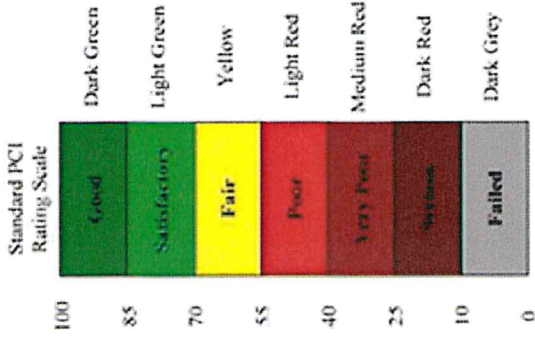
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# PCI Weighted Average - Current Conditions (June 2010) (PCI = 63)



## Arterial & Collector Specific Segment Improvements



Street	Limits	PCI
1	Date Avenue	70
2	Henderson Avenue	87
3	Indiana Street	89
4	Jaye Street	86
5	Main Street	83

BRANCH NETWORK	PCI
REID	62.97
LIME	22.07
N. GRAND	29.01
HILLCREST	32.78
SCRANTON	35.24
WORTH	44.36
VILLA	44.64
TEAPOT DOM	48.24
PORTER RD	49.12
MORTON	49.98
WHITE CHAP	55.99
MAIN	56.88
NEWCOMB	58.09
POPLAR	58.51
WESTFIELD	59.77
LEGGETT	62.54
SPRINGVILL	64.25
DATE	65.71
WESTWOOD	70.22
ORANGE	70.44
INDIANA	72.03
MATHEW	72.49
PLANO	72.89
GIBBONS	73.78
PROSPECT	75.32
HENDERSON	75.43
JAYE	75.92
OLIVE	77.37
WEST	84.06
	65

<b>CITY OF PORTERVILLE - ENGINEERING DIVISION</b>
<b>PROJECT: 2013/2014 MICRO-SURFACING PROJECT</b>
<b>DATE: 4/29/2014</b>

**PART A – DATE AVENUE (Main Street to Orange Avenue)**

ITEM NO.	ESTIMATED QUANTITY	UNIT of MEASURE	DESCRIPTION	UNIT PRICE (in figures)	AMOUNT (in figures)
1	1	L.S.	Mobilization and Demobilization	\$ 15,000.00	\$ 15,000.00
2	1	L.S.	Traffic Control	\$ 10,000.00	\$ 10,000.00
3	1	L.S.	Crack Filling per the guidelines set forth in the project specifications	\$ 7,000.00	\$ 7,000.00
4	12,328	S.F.	Grind & Replace 4" Asphalt Concrete with ½" PG 64-10 Asphalt Concrete including Tack Coat & Final Sweeping - Deliver Grindings to City Stockpile.	\$ 4.00	\$ 49,312.00
5	10,705	S.Y.	Type II- III Micro-Surfacing, including site preparations per the guidelines set forth in the project specifications	\$ 3.25	\$ 34,791.25
6	1	L.S.	Removal and Replacement of Striping & Pavement Markings, inclusive of temporary pavement delineation	\$ 7,000.00	\$ 7,000.00
TOTAL PART "A" (Figures)					\$ 123,103.25

**PART B – HENDERSON AVENUE (Main Street to Jaye Street)**

ITEM NO.	ESTIMATED QUANTITY	UNIT of MEASURE	DESCRIPTION	UNIT PRICE (in figures)	AMOUNT (in figures)
7	1	L.S.	Mobilization and Demobilization	\$ 15,000.00	\$ 15,000.00
8	1	L.S.	Traffic Control	\$ 10,000.00	\$ 10,000.00
9	1	L.S.	Crack Filling per the guidelines set forth in the project specifications	\$ 5,000.00	\$ 5,000.00
10	9,731	S.Y.	Type II- III Micro-Surfacing, including site preparations per the guidelines set forth in the project specifications	\$ 4.00	\$ 38,924.00
11	1	L.S.	Removal and Replacement of Striping & Pavement Markings, inclusive of temporary pavement delineation	\$ 7,000.00	\$ 7,000.00
TOTAL PART "B" BID (Figures)					\$ 75,924.00

**PART C – INDIANA STREET (Olive Avenue to Putnam Avenue)**

ITEM NO.	ESTIMATED QUANTITY	UNIT of MEASURE	DESCRIPTION	UNIT PRICE (in figures)	AMOUNT (in figures)
12	1	L.S.	Mobilization and Demobilization	\$ 15,000.00	\$ 15,000.00
13	1	L.S.	Traffic Control	\$ 10,000.00	\$ 10,000.00
14	1	L.S.	Crack Filling per the guidelines set forth in the project specifications	\$ 5,000.00	\$ 5,000.00
15	2,940	S.F.	Grind Full Pavement Depth (4") and Replace with ½" PG 64-10 Asphalt Concrete including Tack Coat & Final Sweeping – Deliver Grindings to City Stockpile	\$ 4.00	\$ 11,760.00
16	8,313	S.Y.	Type II- III Micro-Surfacing (top course) including site preparations per the guidelines set forth in the project specifications.	\$ 3.25	\$ 27,017.25
17	8	EA	Replace Traffic Loop Detector per 2010 Caltrans Standard Plan ES-5B Type E	\$ 500.00	\$ 4,000.00
18	1	L.S.	Removal and Replacement of Striping & Pavement Markings, inclusive of temporary pavement delineation	\$ 7,000.00	\$ 7,000.00
<b>PART "C" BID (Figures)</b>					<b>\$ 79,777.25</b>

**PART D – JAYE STREET (SR 190 to Springville Avenue)**

ITEM NO.	ESTIMATED QUANTITY	UNIT of MEASURE	DESCRIPTION	UNIT PRICE (in figures)	AMOUNT (in figures)
19	1	L.S.	Mobilization and Demobilization	\$ 20,000.00	\$ 20,000.00
20	1	L.S.	Traffic Control	\$ 15,000.00	\$ 15,000.00
21	1	L.S.	Crack Filling per the guidelines set forth in the project specifications	\$ 5,000.00	\$ 5,000.00
22	11,490	S.Y.	Type II- III Micro-Surfacing (top course) including site preparations per the guidelines set forth in the project specifications.	\$ 3.25	\$ 37,342.50
23	1	L.S.	Removal and Replacement of Striping & Pavement Markings, inclusive of temporary pavement delineation	\$ 15,000.00	\$ 15,000.00
<b>TOTAL PART "D" BID (Figures)</b>					<b>\$ 92,342.50</b>

**PART E – MAIN STREET (SR 190 to Yates Avenue)**

ITEM NO.	ESTIMATED QUANTITY	UNIT of MEASURE	DESCRIPTION	UNIT PRICE (in figures)	AMOUNT (in figures)
32	1	L.S.	Mobilization and Demobilization	\$ 15,000.00	\$ 15,000.00
33	1	L.S.	Traffic Control	\$ 10,000.00	\$ 10,000.00
34	1	L.S.	Crack Filling per the guidelines set forth in the project specifications	\$ 7,000.00	\$ 7,000.00
35	19,065	S.Y.	Type II-III Micro-Surfacing, including site preparations per the guidelines set forth in the project specifications	\$ 3.25	\$ 61,961.25
36	1	L.S.	Removal and Replacement of Striping & Pavement Markings, inclusive of temporary pavement delineation	\$ 7,000.00	\$ 7,000.00
<b>TOTAL PART "E" BID (Figures)</b>					<b>\$ 100,961.25</b>

TOTAL CONSTRUCTION COST	\$ 472,108.25
CONSTRUCTION CONTINGENCY (7%)	\$ 33,047.58
CONSTRUCTION MANAGEMENT & QUALITY CONTROL (4%)	\$ 18,884.33
<b>TOTAL ESTIMATED PROBABLE COST OF PROJECT</b>	<b>\$ 524,040.16</b>

Garin Sanchez, Jr. 04/25/14  
Project Manager Date

Michael K. Reed 4/25/2014  
City Engineer Date

B. Rodriguez 4/28/14  
Public Works Director Date

J. N. Li 04/30/14  
City Manager Date

