U.S. Department of Transportation Federal Highway Administration- California Division- Title 23 Damage Assessment Form (DAF)	DAF No.		- NAP - 008 - 0
	Sheet # 1 of 3	Federal Project # EO ER -	( )
	Disaster No. CA 14 - 1	PR ER -	( )

Applicant	County	Incident Date (mm/dd/yyyy)	Inspection
Napa County Public Works	Napa Congressional districts 5	08/24/2014	09/25/2014

Location of Damage: Per Site [✓] or [ ] Per Mile

Federal-aid Highway?

Name of Road/Bridge: OLD SONOMA ROAD

Y for yes, if no, ineligible for ER funds [Y]

PM Begin: 2.12

PM End: 2.75

PM Length: 3,326.00 (in feet)

Map No 5K12

Functional Classification Type: MAJOR COLLECTOR

Road/Bridge Data: Bridge No _____ Type: _____ Route # _____

Traveled Way:	Width 22	Type:	PCC [ ]	AC [✓]	Gravel [ ]	Forest Hwy? Y/N [N]	Interstate? Y/N [N]
Shoulder:	Width 12	Type:	PCC [ ]	AC [✓]	Gravel [ ]	Existing ADT: 3,994	

Description of Damage: A large number of deep transverse cracks from shoulder to shoulder and many longitudinal cracks from about 1/4 inch to about 1 inch thick affecting both sides of the road and both bike lanes, (impacting about 113100 SF pavement area) due to 2014 South Napa earthquake event (Magnitude 6.0).

COST ESTIMATE

	Type of Repair	Description of Work	Cost Summary	
Emergency Opening (EO)	EO- AGENCY FORCES CT Work Order #(s): EA(s):		PE	0
			CE	0
			Construction	0
	EO- CONTRACT EO EA(s):		PE	
			CE	
			Construction	
	NOTE: Environmental documentation for EO is required. It is generally started after work has begun.		R/W	
		Subtotal Emergency Opening		$0
Permanent Restoration (PR)	PR- CONSTRUCTION FA requires an approved PIF [✓] Contract [ ] FA PR EAs	Excavate 10 inches, re-compact base, add 4 inches of hot mix asphalt. Length of excavation of 400 linear feet.	PE	25,082
			CE	37,623
			Construction	275,904
	NOTE:PRIOR AUTHORIZATION (APPROVED E-76) IS REQUIRED TO PROCEED WITH PERMANENT RESTORATION R/W & CONSTRUCTION		R/W	
	NOTE: Environmental clearance for permanent restoration is conducted through normal Federal-aid procedures	**Subtotal Permanent Restoration**		$338,609

Eligible	Signature	Date		
[✓] Yes [ ] No	Local Agency (if applicable):	4/13/15	PE Total	$25,082
[ ] Yes [ ] No	Caltrans:	5-8-15	CE Total	$37,623
[ ] Yes [ ] No	FHWA*:		R/W Total	$0
			Construction Total	$275,904
			TOTAL ESTIMATE	**$338,609**

Agency sig. Name (print): For Mallika Ramachandran, P.E.

CT signature Name (print): John Brewster

FHWA Sig. Name (print): _____

DAF Prepared by (print): WILLIAM SILVA - GHD

Original: Caltrans District **Copies**: FHWA, Division of Local Assistance(local roads), Federal Resources (state hwy), HQ Major Damage Engineer (state hwy)
*Write "N/A" in FHWA signature block if the project has no Federal ER funding or Federal ER funding delegated to the State.
FHWA Signature: REQUIRED for all Federal Funded State projects. REQUIRED for any Local Agency projects with 1) any BETTERMENT, 2) more than 2 ROW takes or 3) when paving is more than 50% of the Total Estimated Cost. **Reminder: This DAF must be accompanied by photos of the damage.**

U.S. Department of Transportation Federal Highway Administration- California Division- Title 23 Damage Assessment Form (DAF)	DAF No. [ ] - NAP - 0 0 8 - 0 Sheet # 2 of 3 Federal Project # EO ER - _____( ) Disaster No. CA 1 4 - 1 PR ER - _____( ) Agency EO Calc [ ] EO contract [ ] PR Calc [X]

Cost Estimate
DAF 8 - Old Sonoma Road, (MPM 02.12-02.75)

NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT
A	**INITIAL RESPONSE REPAIR**				
1	TEMPORARY REPAIR (EXCAVATE RAISED SECTIONS, FILL CRACKS AND SETTLEMENT)	1	LS	$0.00	$0
	CONSTRUCTION SUBTOTAL: EMERGENCY OPENING				$0
	PE (10% OF TOTAL CONSTRUCTION COSTS)				$0
	CE (15% OF TOTAL CONSTRUCTION COSTS)				$0
	TOTAL: EMERGENCY OPENING				$0
B	**PERMANENT RESTORATION - Excavate 10 inch and recompact- Full depth 10" recompact and place 4 inch HMA**				
	GENERAL CONDITIONS				
1	TRAFFIC CONTROL	1	LS	$1,750.00	$1,750
2	EROSION CONTROL	1	LS	$1,250.00	$1,250
3	MOBILIZATION	1	LS	$1,650.00	$1,650
	DEMOLITION				
4	PULVERIZE PAVEMENT SECTION	3,500	SY	$15.00	$52,500
5	SAWCUT	166	LF	$1.00	$166
	ROADWAY				
6	CRACK SEAL	1,479	LF	$4.50	$6,656
7	BASE PREPARATION	3,500	SY	$10.00	$35,000
8	CLASS 2 AGGREGATE BASE	930	CY	$45.00	$41,850
9	ASPHALT CONCRETE SURFACE	900	TON	$120.00	$108,000
	STRIPING				
10	PAINT - FOG LINE	800	LF	$1.00	$800
11	PAINT- CENTERLINE	400	LF	$3.00	$1,200
	CONSTRUCTION SUBTOTAL: PERMANENT RESTORATION				**$250,822**
	10% CONTINGENCY				**$25,082**
	TOTAL CONSTRUCTION (PR)				**$275,904**
	PE				**$25,082.15**
	CE				**$37,623**
	TOTAL: PERMANENT RESTORATION				**$338,609**
	TOTAL CONTRACT ALLOWANCE (EO+PR)				**$338,609**

Justifications/comments: Non-typical Scope, PE/CE Cost, Engineering

Permanent restoration is required. Excavate 10 inch and recompact- Full depth 10" recompact and place 4 inch HMA. The length of the proposed excavation is approximately 400 linear feet and will encompass Cracks 34 through 44 seen on the following pages. The proposed excavation will occur at the Old Sonoma Road and Congress Valley Road intersection. The width of the roadway is approximately 60 linear feet. The cracks in this location are densely distributed and can potentially develop into a major roadway distress given time. The repair methodology mentioned above will prevent further degeneration of the roadway.

The County's approach to permanent restoration of this site will provide a very cost effective approach by recycling existing site materials for use in the pavement section and reduce the amount of imported material. Along with the new HMA surface, this approach will provide for an efficient project delivery. The County will submit a PIF if the work will be completed using County Forces.

County has initiated CEQA and have contacted Caltrans Environmental Department to initiate the NEPA process.

U.S. Department of Transportation Federal Highway Administration- California Division- Title 23 Damage Assessment Form (DAF)	DAF No. - [ ] - NAP [0][0][8] [0] Sheet # 3 of 3 Federal Project # EO ER - _____( ) Disaster No. CA [1][4] - [1] PR ER - _____( ) Agency EO Calc [X] EO contract [ ] PR Calc [X]

Photos, Sketches and/or Narrative

Photo Description: The following photos depict the condition of Old Sonoma Road **prior** to the August 2014 earthquake in Napa County. The images are taken between MPM 2.12 and 2.75 (approximately). This collection of images is meant to characterize the condition of the roadway only. The images were taken from Google Earth on 4.9.2015 and the images themselves are dated 4.2014 (April, 2014).

MILE POST MARKER 2.12.

OLD SONOMA ROAD MOVING NORTHWARD .

Old Sonoma Rd
© 2016 Google
Google earth
Eye alt 135 ft

APPROACHING CONGRESS VALLEY ROAD INTERSECTION

CONGRESS VALLEY ROAD INTERSECTION WITH OLD SONOMA ROAD, PART 1

CONGRESS VALLEY ROAD INTERSECTION WITH OLD SONOMA ROAD, PART 2

NORTH OF CONGRESS VALLEY ROAD INTERSECTION.

U.S. Department of Transportation Federal Highway Administration- California Division- Title 23 Damage Assessment Form (DAF)	DAF No. - [ ] - NAP [0][0][8][0] Sheet # 3 of 3 Federal Project # EO ER - _____( ) Disaster No. CA [1][4] - [1] PR ER - _____( ) Agency EO Calc [X] EO contract [ ] PR Calc [X]

Photos, Sketches and/or Narrative

Photo Description: A large number of deep transverse cracks from shoulder to shoulder and many longitudinal cracks from about 1/4 inch to about 1 inch thick affecting both sides of the road and both bike lanes, (impacting about 113100 SF pavement area) due to 2014 South Napa earthquake event (Magnitude 6.0).

PICTURES TAKEN FROM MPM 02.12 TO MPM 03.35 (Crack 1 to Crack 59)

MPM 02.12 CRACK 1

13'
5
L

6
3'

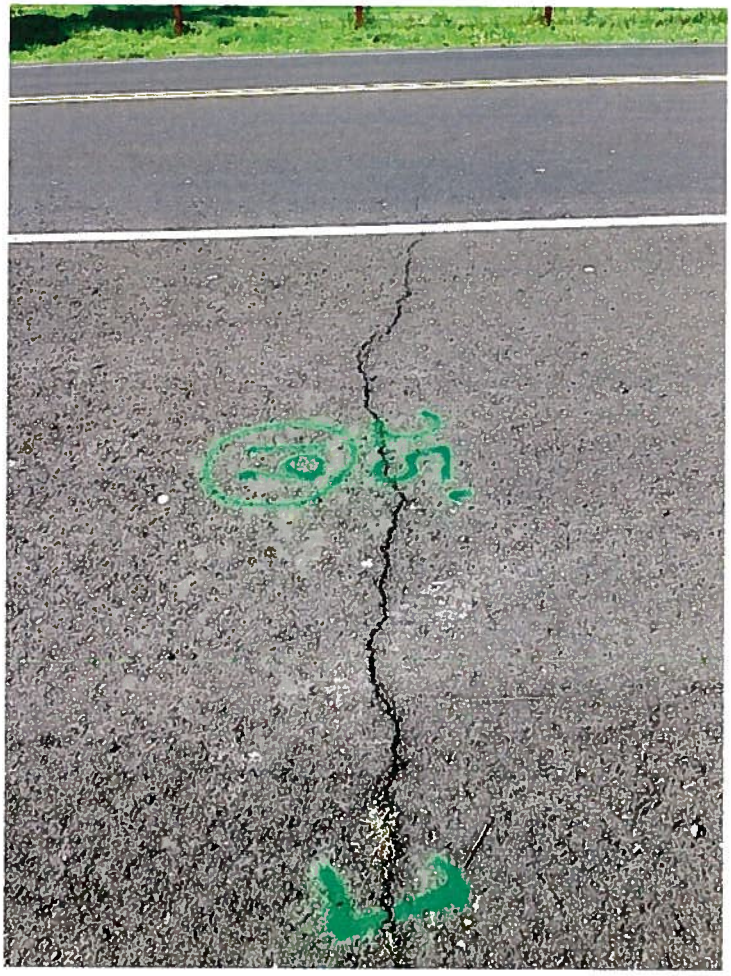
3'
7

6
L

8
35'

32'
13

36.
L


L

100
20
L

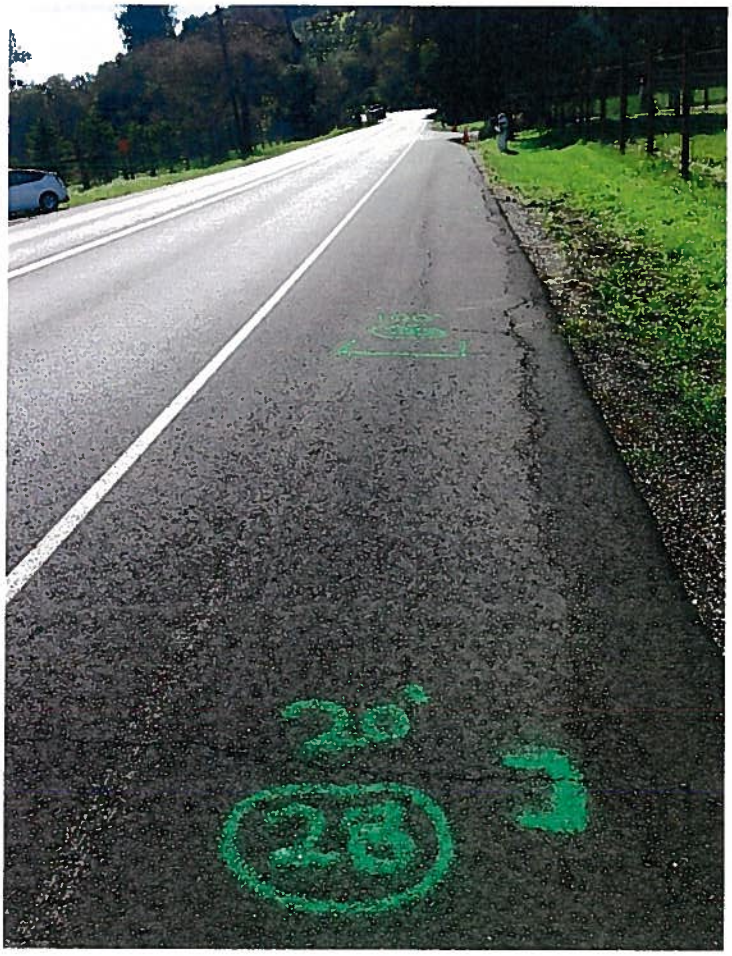
10.
21
L

30'

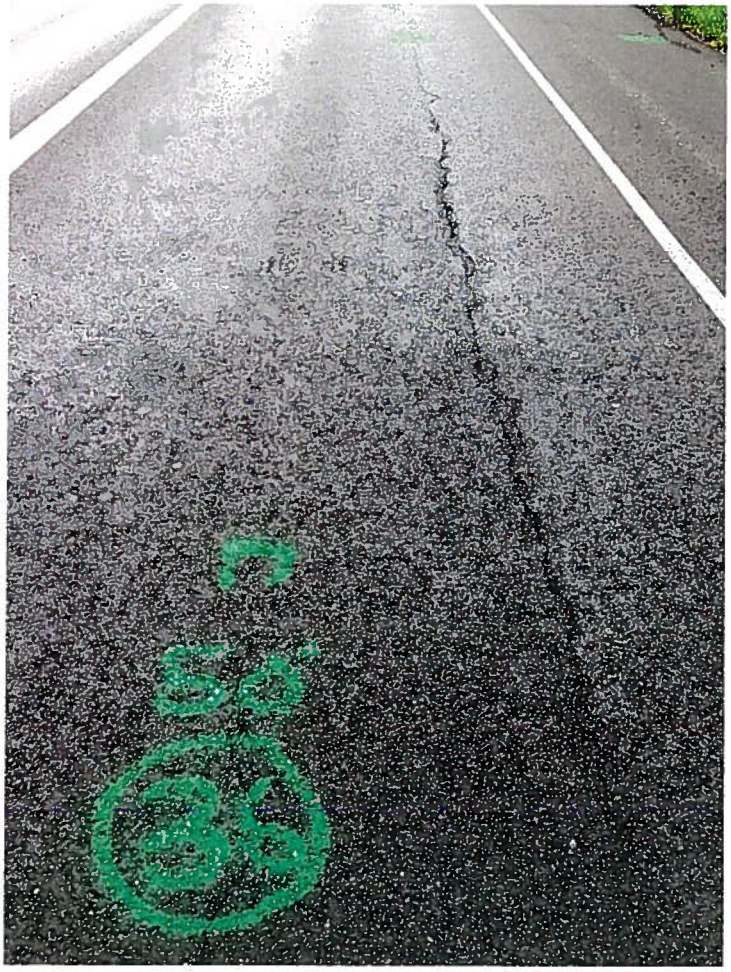
30'

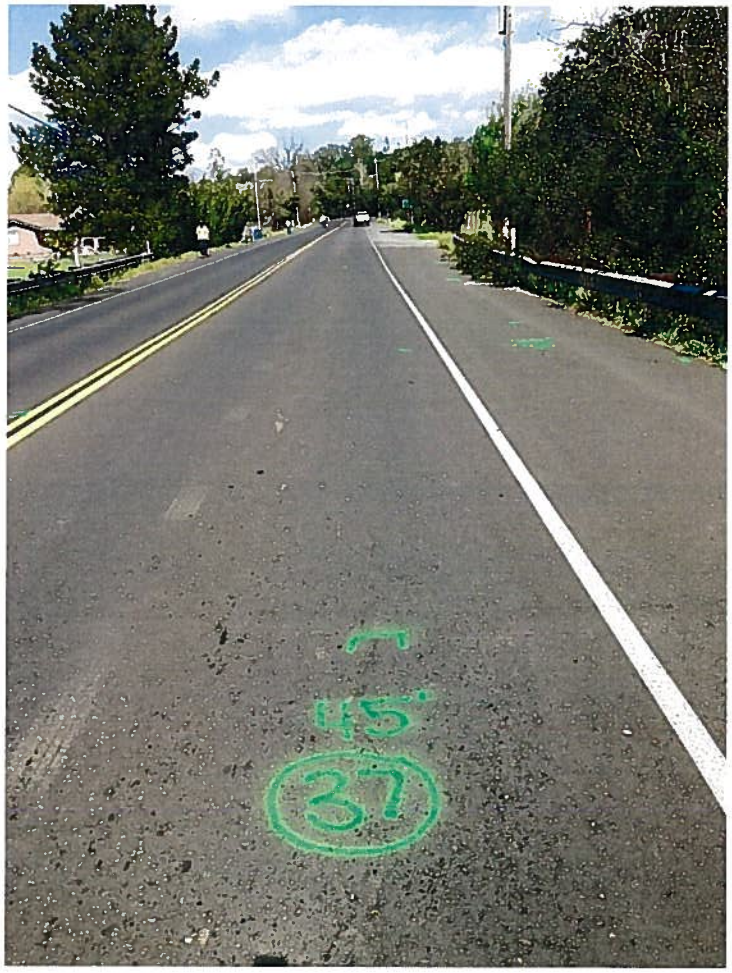
30'

25'
25



NARA
02.25.




45'
37

MPM 02.25 CRACK 38

25'
42

43
30.

44
38.

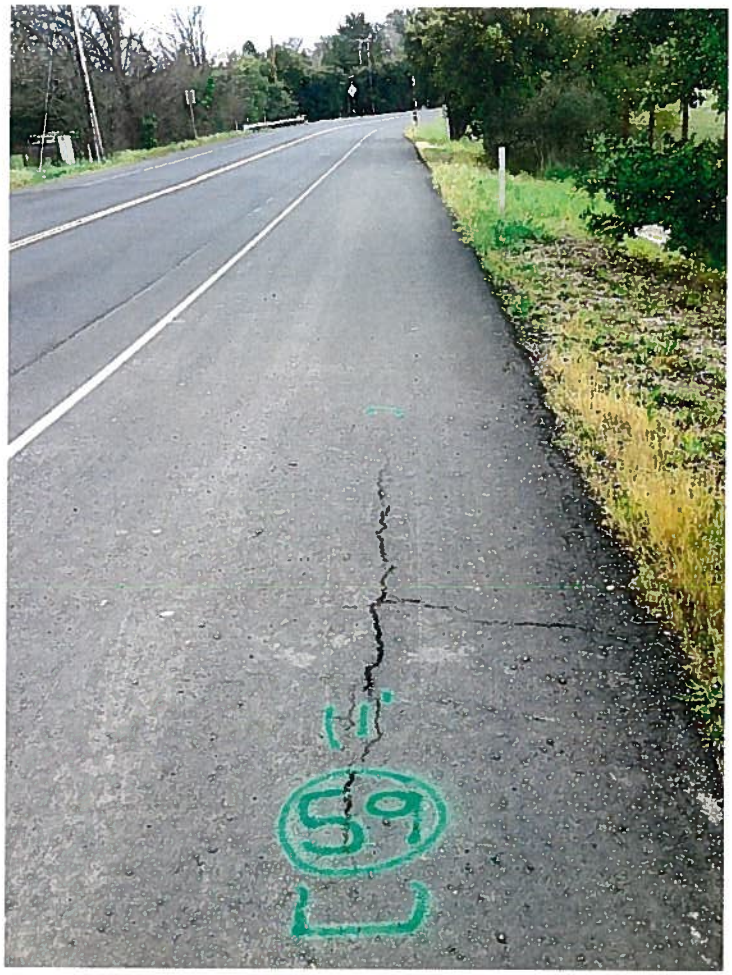
45
38.

38' J
46

49'
48

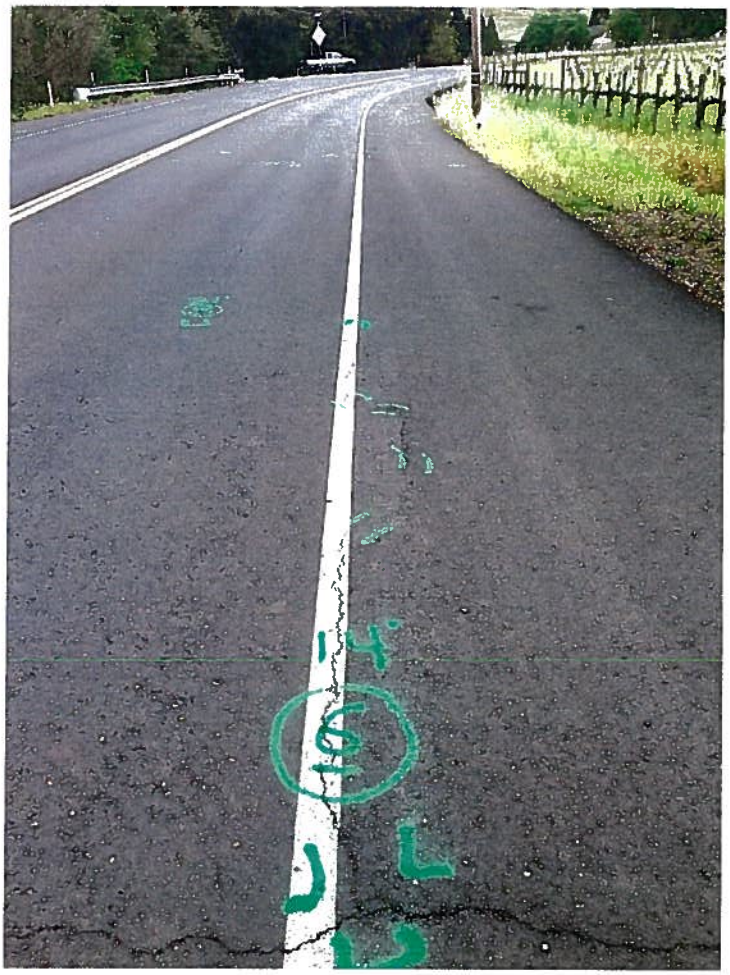
4041

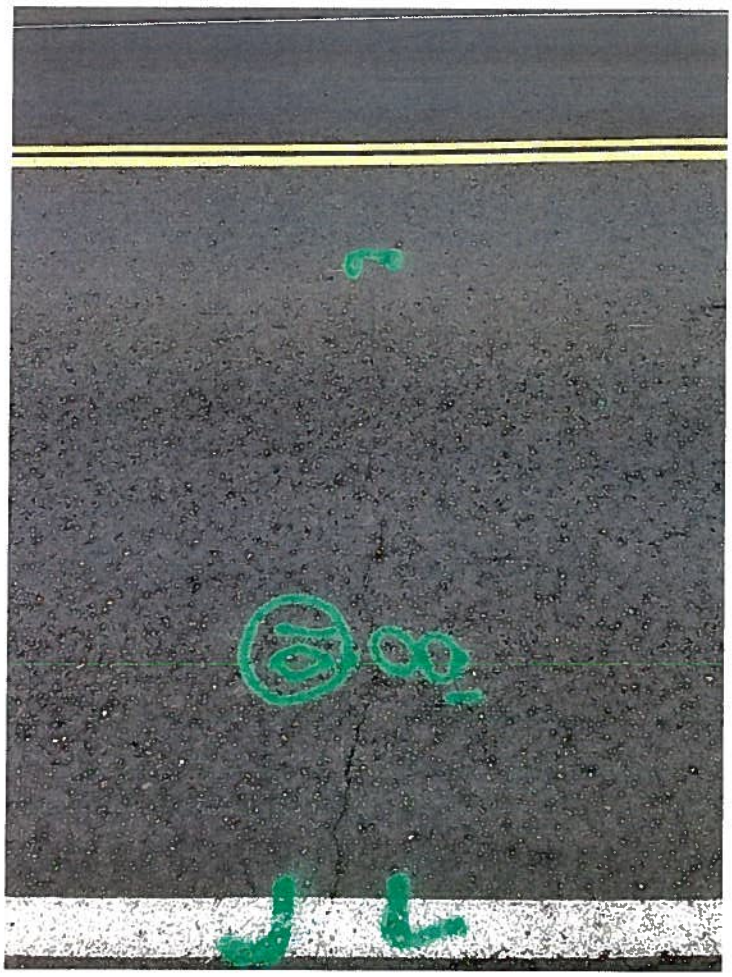
58
20'


59

59

DAF 8 PICTURES TAKEN FROM MPM 02.35 TO MPM 002.75 (Crack 1 to Crack 139)

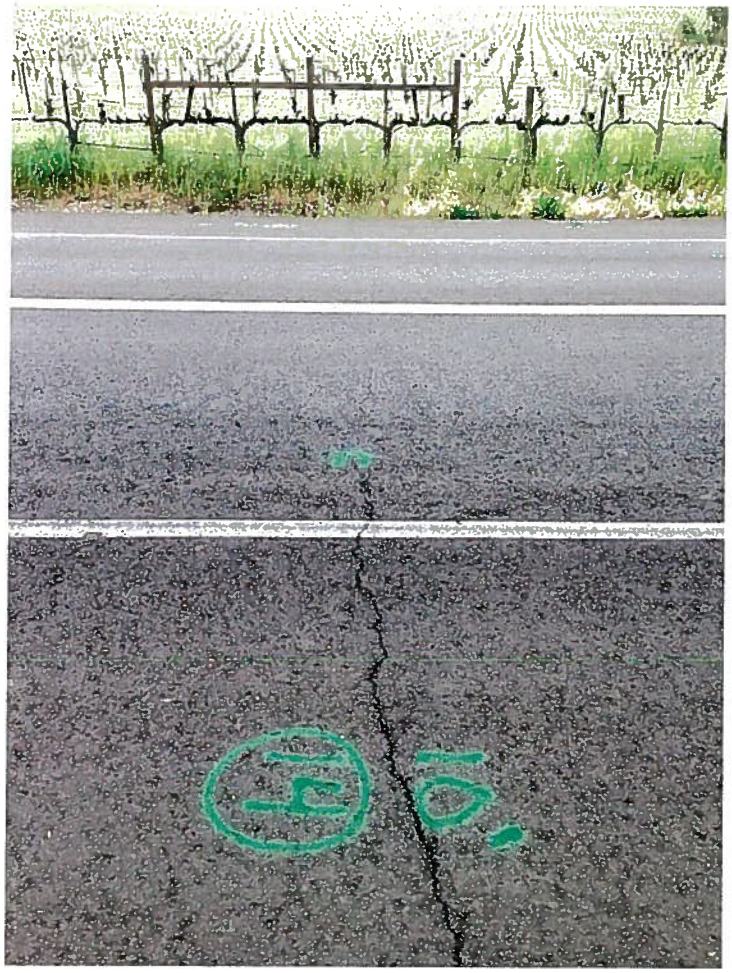



80'

11
20'

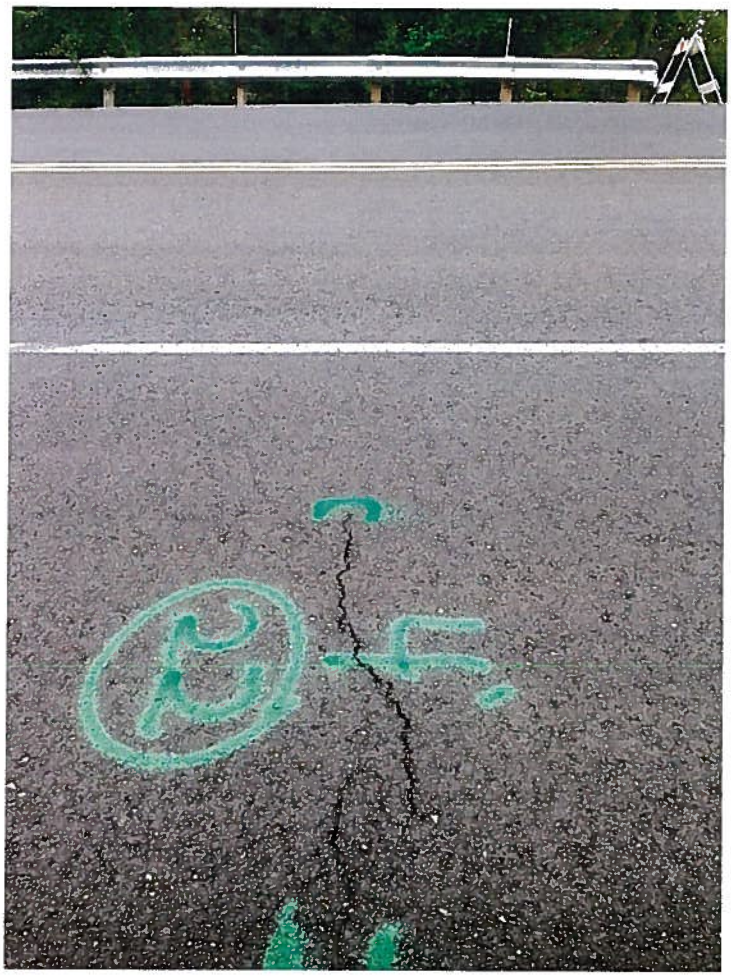
8'
12

80'
13



18

15'
20



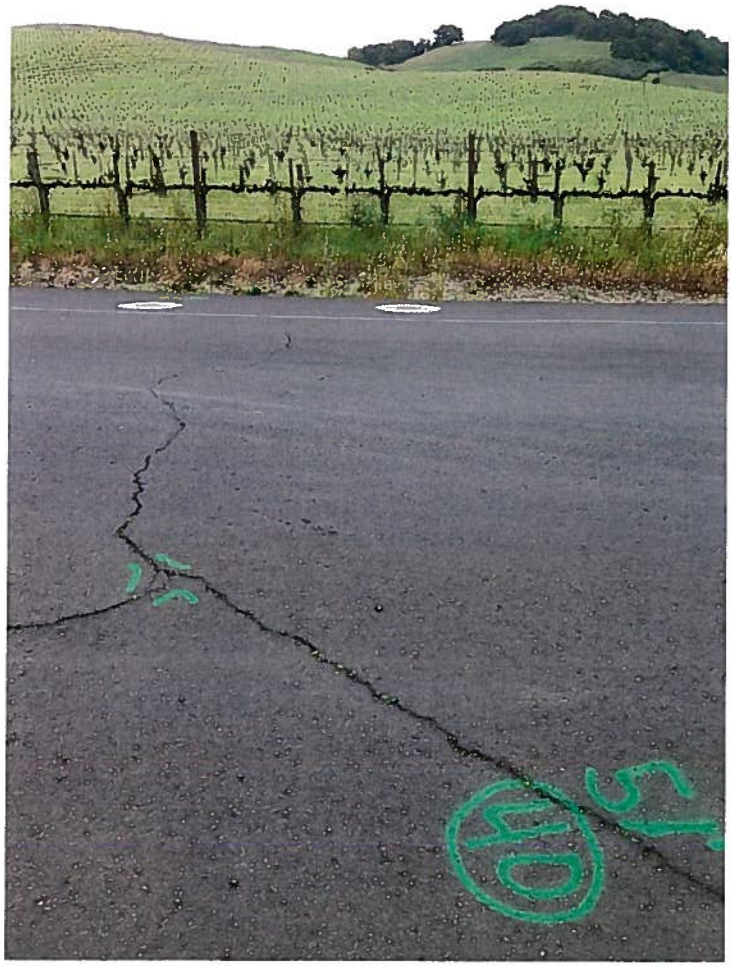
33

34
35
14'

37
17'

39
8'

40



43

5
53

22
5

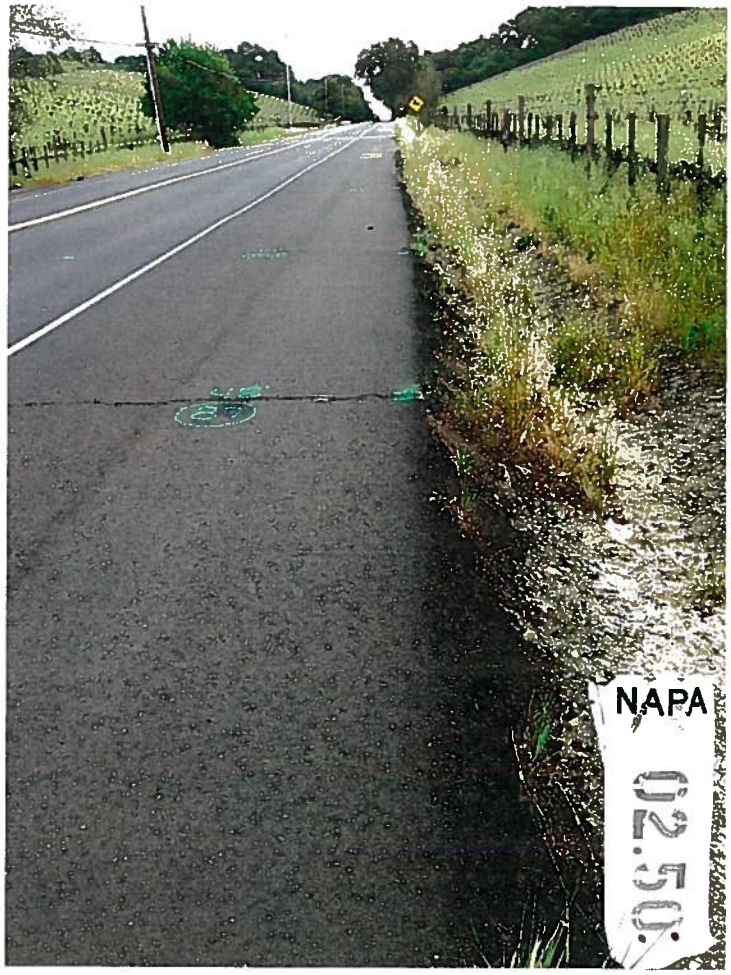
7
5

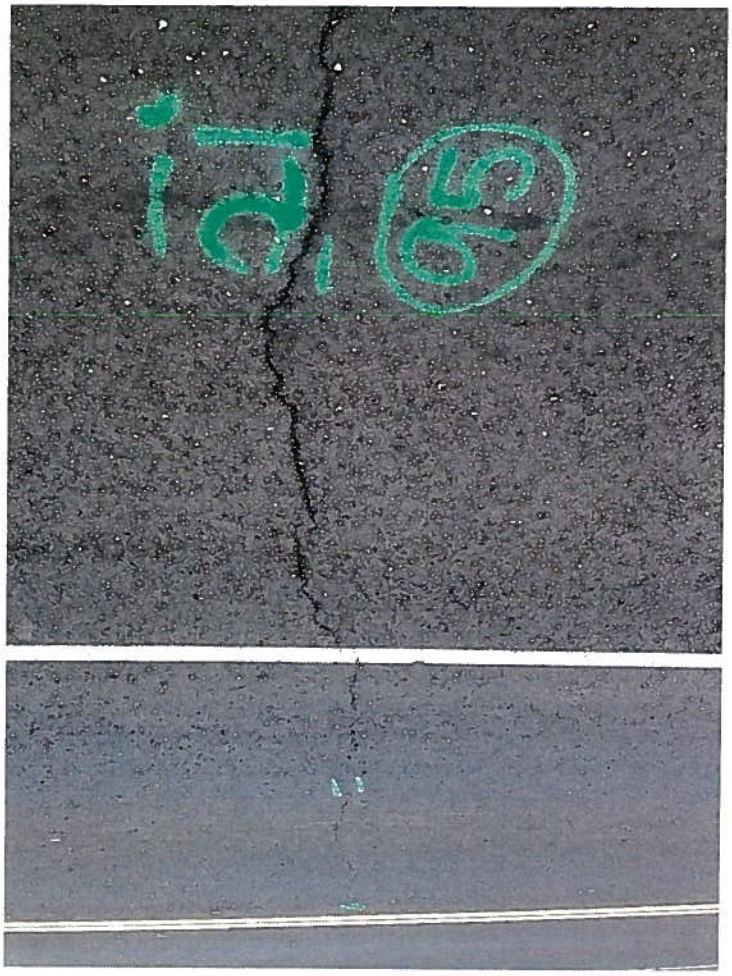
2
5

2.45

2

'3'
82


NAPA
02.50

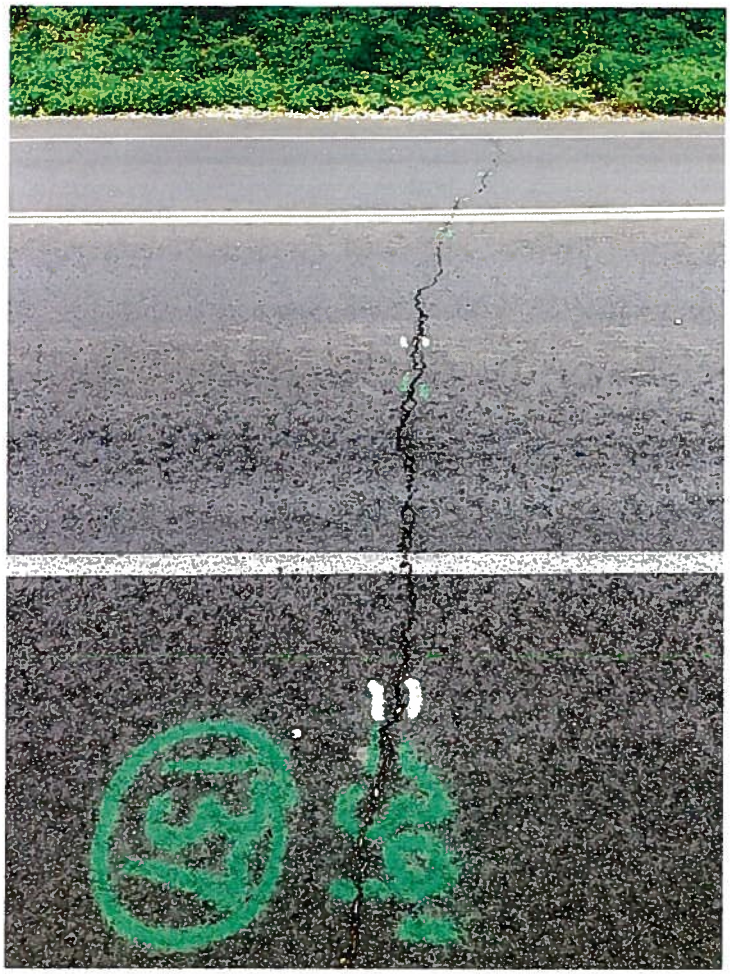


89

100

103

105



02.75

U.S. Department of Transportation
Federal Highway Administration-

California Division- Title 23

Damage Assessment Form (DAF)

DAF No. - [ ] - NAP [0][0][8] [0]
Sheet # 3A of 3 Federal Project # EO ER - _____(
)
Disaster No. CA [1][4] - [1] PR ER - _____(
)

PHOTO NO.	DESCRIPTION	LENGTH
1	Transverse crack	31 FT, ¼" wide
2	Transverse crack	35 FT, ¼" wide
3	Transverse crack	31 FT, ¼" wide
4	Transverse crack	5 FT, ¼" wide
5	Longitudinal crack	13 FT, ¼" wide
6	Transverse crack	31 FT, ¼" wide
7	Transverse crack	31 FT, ¼" wide
8	Longitudinal crack	31 FT, ¼" wide
9	Longitudinal crack	30 FT, ¼" wide
10	Longitudinal crack	35 FT, ¼" wide
11	Longitudinal crack	21 FT, ¼" wide
12	Longitudinal crack	58 FT, ¼" wide
13	Transverse crack	32 FT, ¼" wide
14	Transverse crack	18 FT, ¼" wide
15	Transverse crack	21 FT, ¼" wide
16	Transverse crack	20 FT, ¼" wide
17	Transverse crack	35 FT, ¼" wide
18	Transverse crack	18 FT, ¼" wide
19	Transverse crack	25 FT, 1/2" wide
20	Longitudinal crack	100 FT, 1/2" wide
21	Longitudinal crack	10 FT, ¼" wide
22	Transverse crack	20 FT, ¼" wide
23	Transverse crack	35 FT, ¼" wide
24	Transverse crack	6 FT, ¼" wide
25	Longitudinal crack	25 FT, ¼" wide
26	Longitudinal crack	95 FT, ¼" wide
27	Longitudinal & transverse crack	32 FT, 1/2" wide
28	Transverse crack	20 FT, 1/2" wide
29	Transverse crack	33 FT, ¼" wide
30	Transverse crack	18 FT, ¼" wide
31	Longitudinal crack	70 FT, ¼" wide
32	Transverse crack	40 FT
33	Transverse crack	12 FT, ¼" wide
34	Longitudinal crack	50 FT, ¼" wide
35	Transverse crack	10 FT
36	Longitudinal crack	50 FT, ¼" wide
37	Longitudinal crack	45 FT
38	Transverse crack	25 FT
39	Transverse crack	40 FT

PHOTO NO.	DESCRIPTION	LENGTH
40	Transverse crack	15 FT
41	Transverse crack	10 FT
42	Longitudinal crack	25 FT
43	Transverse crack	38 FT
44	Transverse crack	38 FT
45	Transverse crack	38 FT
46	Longitudinal crack	38 FT
47	Transverse crack	38 FT
48	Longitudinal crack	44 FT
49	Transverse crack	45 FT
50	Transverse crack	26 FT
51	Transverse crack	12 FT
52	Transverse crack	50 FT
53	Transverse crack	10 FT
54	Transverse crack	10 FT
55	Transverse crack	47 FT
56	Transverse crack	45 FT
57	Transverse crack	8 FT
58	Transverse crack	20 FT
59	Longitudinal crack	11 FT

Permanent restoration is required. Excavate 10 inch and recompact- Full depth 10" recompact and place 4 inch HMA. The County's approach to permanent restoration of this site will provide a very cost effective approach by recycling existing site materials for use in the pavement section and reduce the amount of imported material. Along with the new HMA surface, this approach will provide for an efficient project delivery. The County will submit a PIF if the work will be completed using County Forces.

EXHIBIT 3-O SAMPLE LOCAL FEDERAL-AID PROJECT FINANCE LETTER

DEPARTMENT OF TRANSPORTATION
DIVISION OF ACCOUNTING
LOCAL PROGRAM ACCOUNTING BRANCH

Date: 4/13/2015
Agency: NAPA COUNTY
Fed Project No.:
Project ID.: DAF 8 OLD SONOMA MPM 2.07
PPNO.:
Bridge No :

ATTN: RACHEL CARPENTER

Work on State Highway (Y or N): N If yes, provide following:
Administered by State or Local?
Project Manager Name:
Accounting Program Code(s):
Coop or Contribution Agrmnt No.:

	EO	PR	"P" or "L"*	TOTAL COST OF WORK	FEDERAL PARTICIPAT. COST	100% FEDERAL FUND TYPE (1)	88.53% FEDERAL FUND TYPE (2)	STATE MATCH FUNDS	LOCAL MATCH FUNDS	OTHER FUNDS
PRELIMINARY ENGINEERING										
Preliminary Engineering: EMERGENCY OPENING			P	$0	$0	$0			$0	
Preliminary Engineering: PERMANENT RESTORATION			P	$25,082	$25,082		$22,205		$2,877	
State Furnished Preliminary Engineering										
Overhead at ____ %										
RIGHT OF WAY (R/W)										
Purchase Costs										
Relocation Assistance /Utility										
CONSTRUCTION:	**EO**	**PR**								
Contract Items	$0	$250,822.00								
Utilities										
Supplemental Work										
Contingencies		$25,082								
Trainees										
Agency/State Furn. Mat.										
Contract Total:	$0									
		$275,904	P	$0	$0	$0			$0	
			P	$275,904	$275,904		$244,258		$31,646	
CONSTRUCTION ENGINEERING										
Construction Engineering: EMERGENCY OPENING			P	$0	$0	$0			$0	
Construction Engineering: PERMANENT RESTORATION			P	$37,623	$37,623		$33,308		$4,315	
State Furnished Construction Engineering										
Overhead at ____ %										
State Furnished Materials Testing										
Overhead at ____ %, Subjob ____										
Striping by Agency										
Force Account Work by Agency										
TOTALS:			P	$338,610	$338,610	$0	$299,771		$38,839	

* "P" = Pro Rata, "L" = Lump Sum

Federal Participation:
Federal Appn. Code(s):
Federal Reimbursement Rate(s) for Progress Invoice:

PHASE	FED (1)	FED (2)
PE		
R/W		
CON	100	88.53%
CE		

Distribution: (1) Original + 4 copies-Caltrans DLAE
(2) Copy-Local Agency Project File

Certification

I certify that this Finance Letter accurately reflects the current cost estimate for all phases of the project obligated but not fully expended.

Signature : for
Title : SUPERVISING CIVIL ENGINEER
Project location : OLD SONOMA MPM 2.07, NAPA COUNTY
Remarks :

For questions regarding finance letter, contact:
Printed Name: MALLIKA RAMACHANDRAN, P.E.
Telephone No.: 707-259-8194