

PUBLIC WORKS DEPARTMENT
INITIAL STUDY OF
ENVIRONMENTAL SIGNIFICANCE

PROJECT NUMBER: #0672-6U2149, 0672-6U2148, and 0672-6U2147
CP# 15-10

PROJECT NAME: 2015 Road Surface Treatment Project (Project):

- 1) **2015 Asphalt Rubber Cape Seal – Shadow Creek and East Richmond**, Project No. 0672-6U2149
(Unincorporated Shadow Creek, East Richmond areas)
- 2) **2015 Micro Surface with Fiber**, Project No. 0672-6U2148
(Unincorporated Alamo areas)
- 3) **2015 Slurry Seal**, Project No. 0672-6U2147
(Unincorporated Pleasant Hill and El Sobrante areas)

PREPARED BY: **Kimani Birden** 

DATE: March 5, 2015

APPROVED BY: 

DATE: 3-16-15

RECOMMENDATIONS:

☒ **Categorical Exemption [15301(c)]**

☐ Negative Declaration

☐ Environmental Impact Report Required

☐ Conditional Negative Declaration

The project will not have a significant effect on the environment. The recommendation is based on the following: The projects consist of the maintenance of existing facilities involving no expansion of use beyond that previously existing; pursuant to section **15301(c)** of the CEQA guidelines.

What changes to the project would mitigate the identified impacts: N/A

USGS Quad Sheet: Richmond, Las Trampas Ridge, Walnut Creek	Base Map Sheet #: L-14, J-7, U-19, K-6, K-7, J-7	Parcel #: N/A
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GENERAL CONSIDERATIONS:

1. **Location:** The Project is located in various communities in unincorporated west, south and central Contra Costa County (Figures 1-12).
2. **Project Description:** Contra Costa County will apply the following surface treatments to selected roadways.
 - I. Descriptions of various types of roadway surface treatments:
 - A. Asphalt rubber cape seal is a two method sealing/rehabilitation combination, consisting of an application of asphalt rubber binder and screenings precoated with paving asphalt, followed by an application of a slurry seal coat to provide for a smooth finish.
 - B. Microsurfacing is a mixture of polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, fiber and other additives, properly proportioned, mixed, and spread on a paved surface. It is a hard wearing surfacing for pavement preservation and rehabilitation. It is an advanced type of slurry

**Contra
Costa
County**

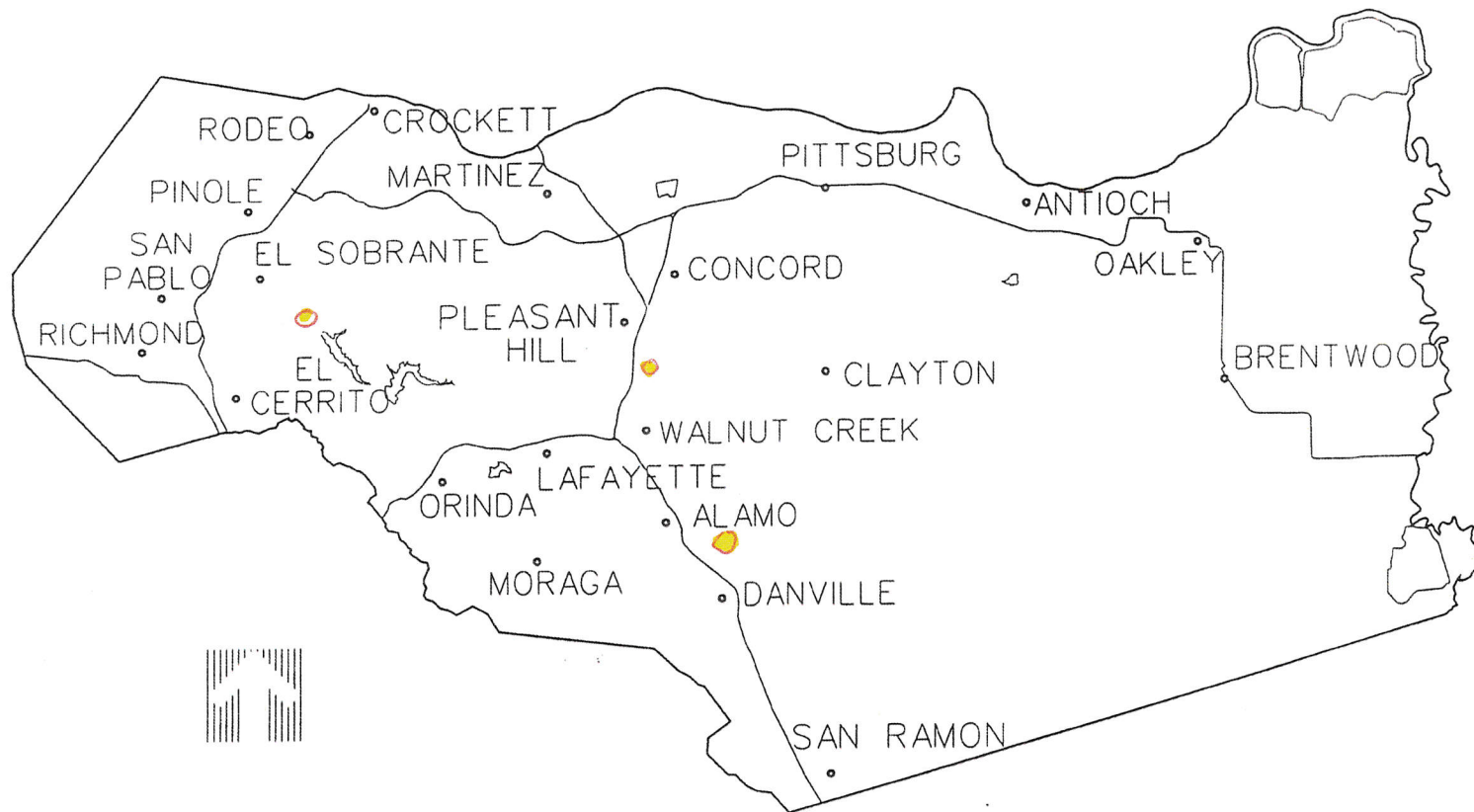
surfacing but has special emulsifiers for more quick setting and higher stiffness for heavy traffic or very quick trafficking, rut filling

- C. Slurry seal is a quick setting emulsified asphalt latex mixture. It consists of fine graded aggregate, a binder, and additives. It is used for sealing old or raveled pavements, filling minor cracks, sealing the surface to prevent moisture and air intrusion into the pavement, and improving skid resistance.

The purpose of this Project is to conduct preventative maintenance on select streets (spreadsheet 1-10) within western, southern and central Contra Costa County (figures 5-12). The application of the surface treatments will create a water proof membrane that will cover each road surface and will prevent water from seeping under the pavement and damaging the roadway. Once applied each surface treatment will extend the life of the existing pavement. The Project consists of cleaning the road surface (including weed removal and sweeping), removing existing striping, applying surface treatments to each of the roadways (see attached list), restriping the roadways, and site cleanup. Residential streets will be closed for approximately half a day in order to apply the surface treatment and to provide sufficient time for curing. Residents will be notified one week prior to any activity and "No Parking" signs will be posted the day before actual application. The Project will maintain the existing drainage pattern, and the appropriate Best Management Practices (BMPs) will be implemented to protect storm drain inlets during construction. Some areas will require vegetation removal and trimming in order to accommodate the project; no tree removal is necessary. Emergency vehicles will have access at all times. Real property transactions are not anticipated in support of the Project.

3. Does it appear that any feature of the project will generate significant public concern?
☐ Yes ☒ No ☐ maybe (Nature of concern):
4. Will the project require approval or permits by other than a County agency?
☐ Yes ☒ No
5. Is the project within the Sphere of Influence of any city? The cities of Richmond, Pinole, Walnut Creek and Danville

CONTRA COSTA COUNTY CALIFORNIA

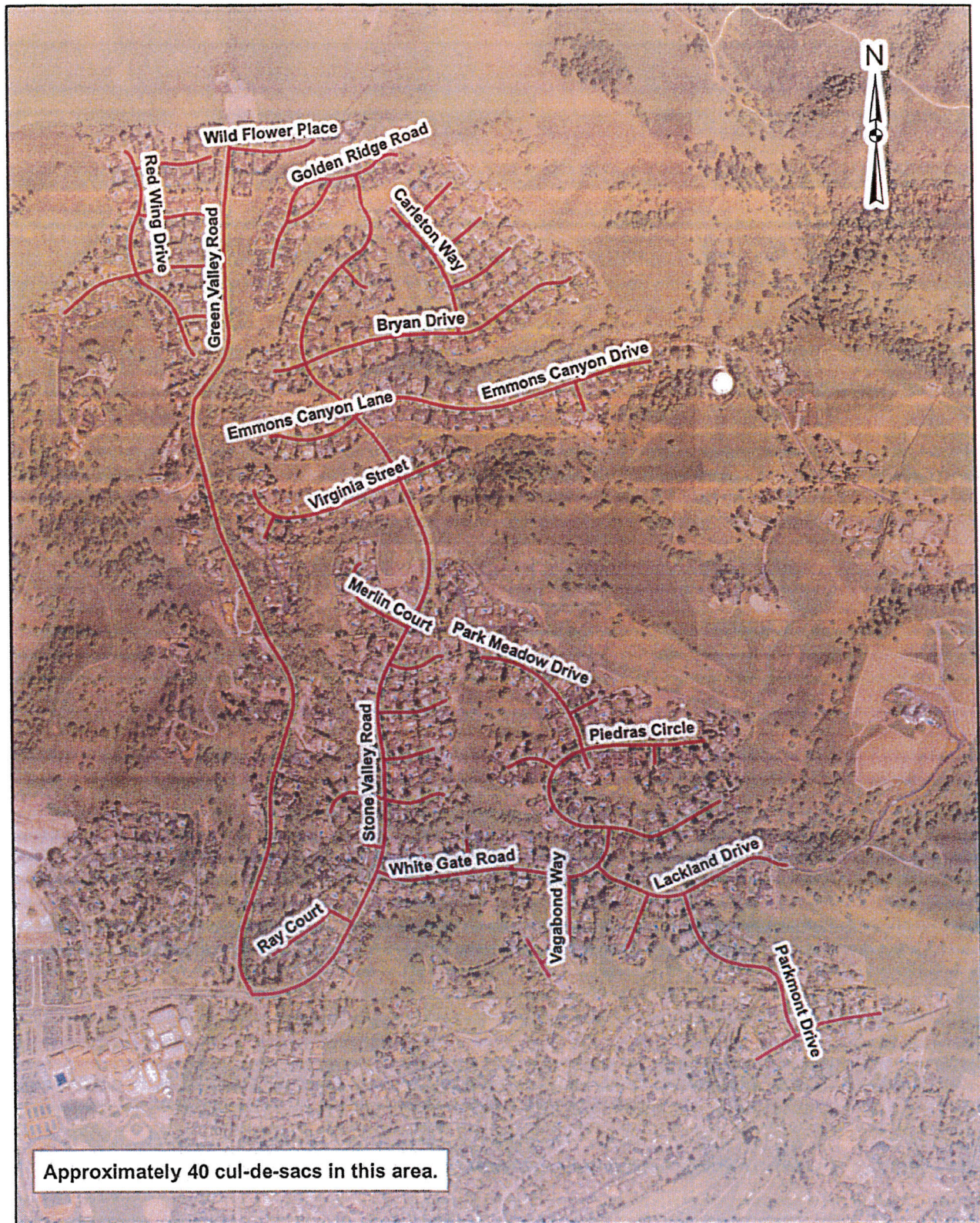


LOCATION MAP

● Project locations

Figure 1

2015 Surface Seal Program
Whitegate Area of Alamo
Roads To Receive A Micro Surface w/Fiber



By: H. Finch
November 26, 2014

Fig 2

2015 Surface Treatment Program
El Sobrante Area
Roads To Receive A Slurry Seal



Approximately 13 cul-de-sacs in this area.

2015 Surface Seal Program
Pleasant Hill BART Area
Roads To Receive A Slurry Seal



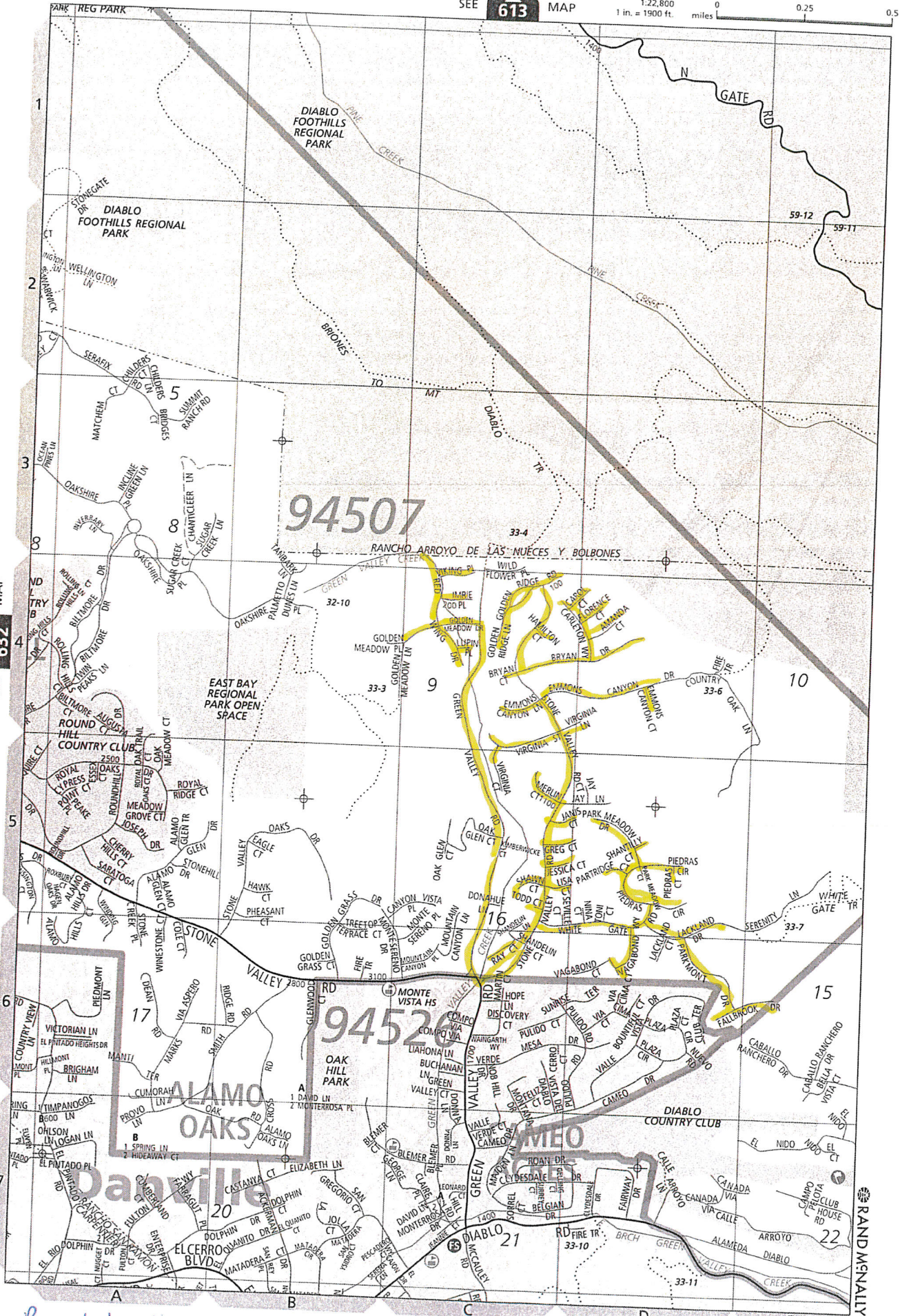
Approximately 13 cul-de-sacs in this area.

By: H. Finch
November 25, 2014

Fig. 4

CONTRA COSTA

SEE 632 MAP

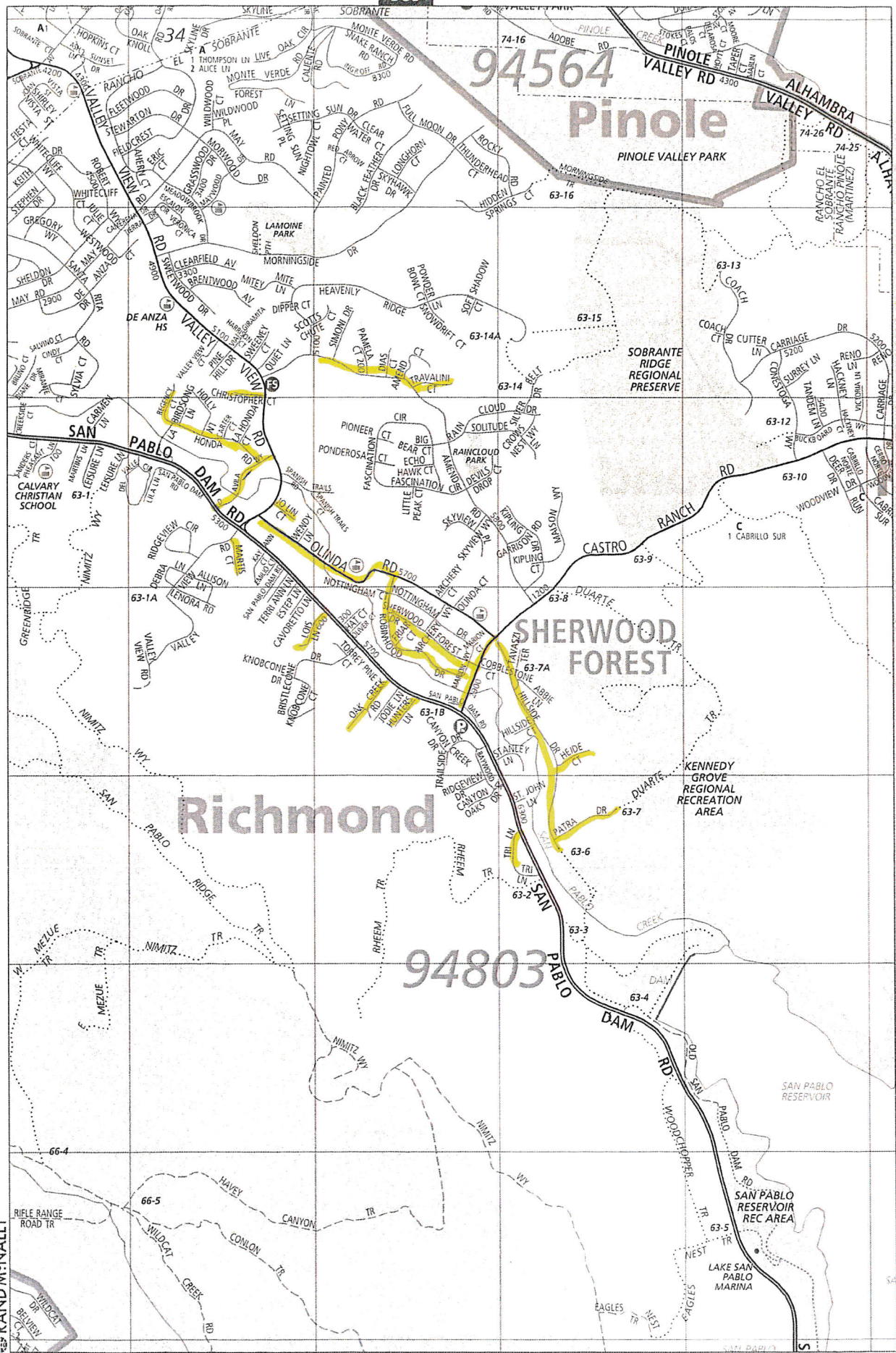


Project Locations

0 0.25 0.5 1:22,800
miles 1 in. = 1900 ft

SEE **569** MAP

MAP **589**



CONTRA COSTA

SEE **590** MAP

RAND McNALLY

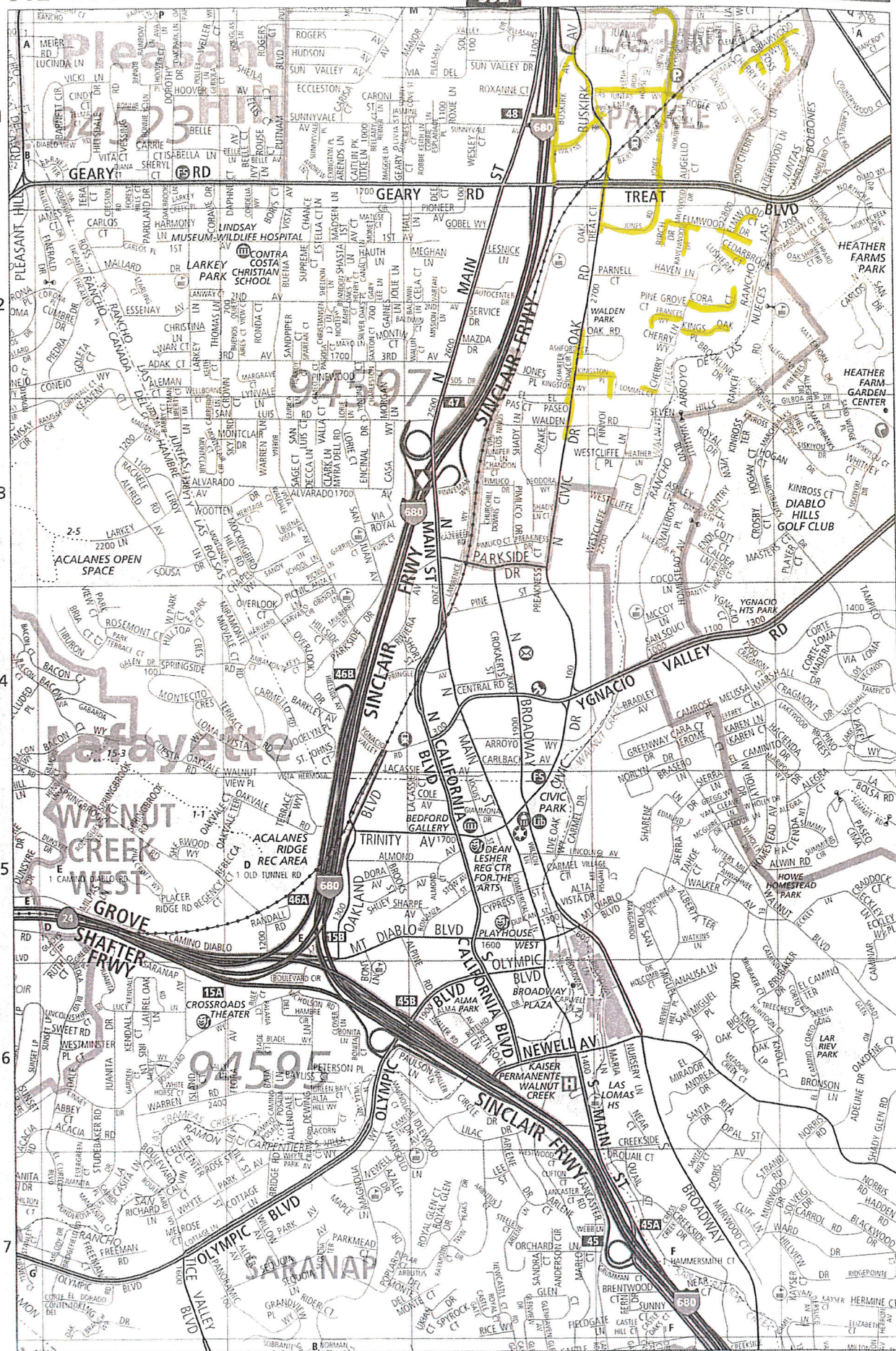
Project Locations

SEE **609** MAP

Fig. 8 (see fig. 3)

CONTRA COSTA

SEE 611 MAP

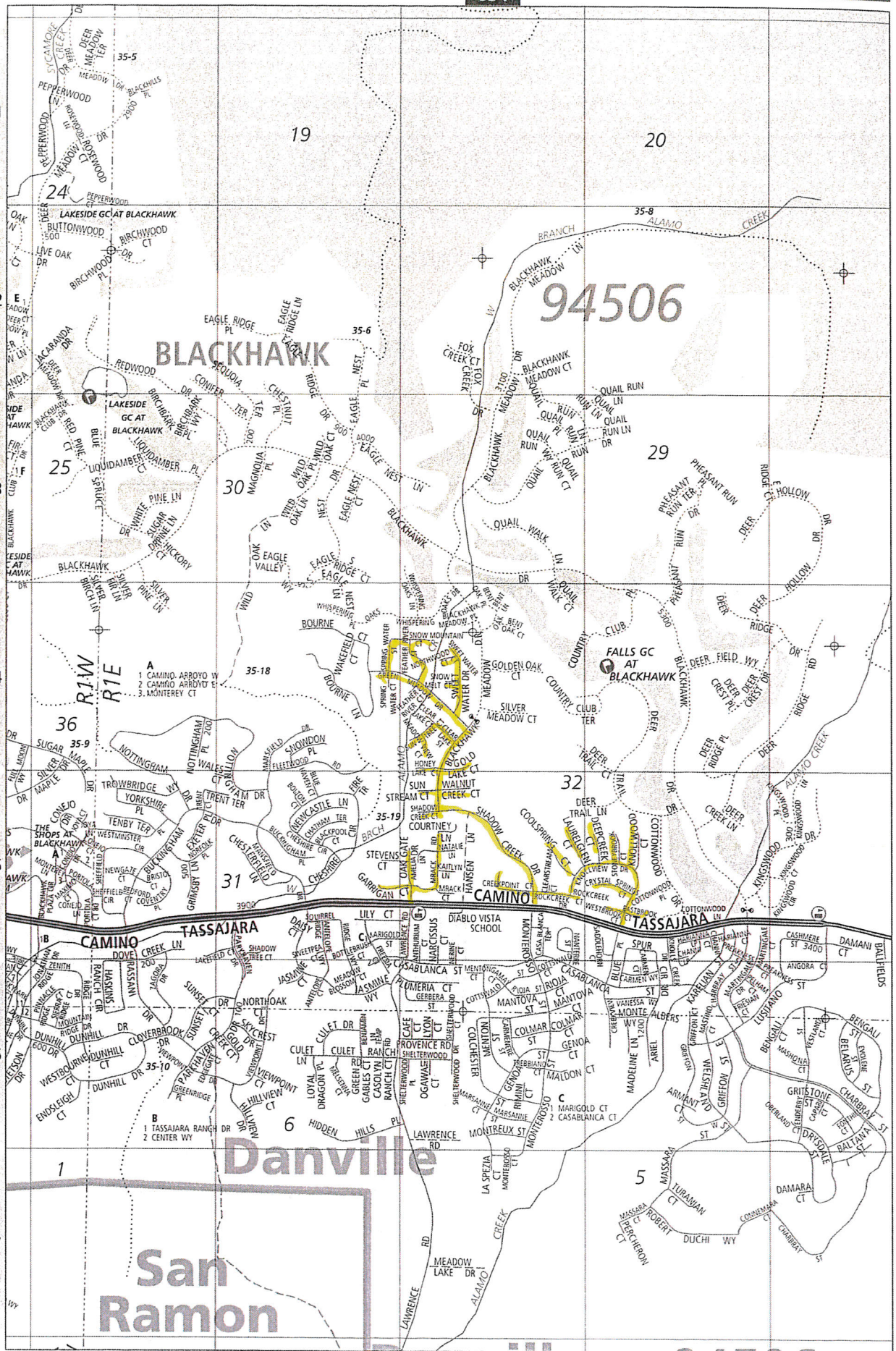


Project Locations



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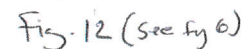
SEE 653 MAP



RAND McNALLY



Project Locations



**2015 Pavement Surface Treatment Project
Alamo Area
List Of Streets For Surface Treatment**

Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Aggregate (Tons)	Emulsion (Tons)
White Gate Road	Stone Valley Road 4935AJ	Piedras Circle 4935AK	33	1,901	6,970	62.7	10.0
Vagabond Way	White Gate Road 4935AA	Vagabond Court 4935AR	29	686	2,210	19.9	3.2
Shandelin Court	Stone Valley Road 4935AJ	end	29	317	1,021	9.2	1.5
Ray Court	Shandelin Court 4935AC	end	29	528	1,701	15.3	2.4
Todd Court	Stone Valley Road 4935AJ	end @ 34 Todd Court	29	158	509	4.6	0.7
Seville Court	White Gate Road 4935AA	end	29	211	680	6.1	1.0
Nina Court	White Gate Road 4935AA	end	29	264	851	7.7	1.2
Toni Court	White Gate Road 4935AA	end @ 64 Toni Court	29	158	509	4.6	0.7
Piedras Circle	end @ 1880 Piedras Circle	Park Meadow Drive 4935AN	29	845	2,723	24.5	3.9
Piedras Circle	Park Meadow Drive 4935AN	south end @ 1800 Piedras Cir.	31	1,954	6,730	60.6	9.7
Piedras Court	Piedras Circle 4935AK	end @ 110 Piedras Court	29	158	509	4.6	0.7
Shantilly Court	Park Meadow Drive 4935AN	end	29	264	851	7.7	1.2
Park Meadow Drive	Piedras Circle 4935AK	Shantilly Court 4935AM	33	264	968	8.7	1.4
Park Meadow Drive	Shantilly Court 4935AM	end	29	792	2,552	23.0	3.7
Park Meadow Court	Piedras Circle 4935AK	end @ 94 Park Meadow Court	29	158	509	4.6	0.7
Partridge Court	Piedras Circle 4935AK	end	29	422	1,360	12.2	2.0
Vagabond Court	north @ 214 Vagabond Court	south @ 207 Vagabond Court	29	370	1,192	10.7	1.7
Lackland Drive	Whitegate Road 4935AA	west side 1837 Lackland Drive	33	1,162	4,261	38.3	6.1
Lackland Drive	west side 1837 Lackland Drive	1841 Lackland Drive	33	211	774	7.0	1.1
Lackland Court	Lackland Drive 7341	end @ 120 Lackland Court	29	422	1,360	12.2	2.0
Parkmont Drive	Lackland Drive	Fallbrook Drive	33	1,373	5,034	45.3	7.2
Fallbrook Drive	west end @ 1800 Fallbrook Dr.	east end @ 1840 Fallbrook Dr.	29	1,003	3,232	29.1	4.7
Jessica Court	Stone Valley Road	end @ 71 Jessica Court	29	370	1,192	10.7	1.7
Shawn Court	Stone Valley Road	end @ 40 Shawn Court	29	475	1,531	13.8	2.2
Lisa Court	Stone Valley Road	end @ 51 Lisa Court	29	422	1,360	12.2	2.0
Greg Court	Stone Valley Road	end @ 78 Greg Court	29	528	1,701	15.3	2.4
Janis Court	Stone Valley Road	end @ 82 Janis Court	29	422	1,360	12.2	2.0
Merlin Court	Stone Valley Road	end @ 1148 Merlin Court	29	686	2,210	19.9	3.2
Virginia Lane	Stone Valley Road 4935AJ	end @ 160 Virginia Lane	29	370	1,192	10.7	1.7
Virginia Street	Stone Valley Road 4935AJ	Virginia Court 4935BE	33	1,003	3,678	33.1	5.3
Virginia Street	Virginia Court 4935BE	end @ 1388 Virginia Street	29	264	851	7.7	1.2
Virginia Court	Virginia Street 4935BD	end @ 138 Virginia Court	29	211	680	6.1	1.0
Emmons Canyon Lane	Stone Valley Road 4935AJ	end @ 189 Emmons Canyon Lane	29	686	2,210	19.9	3.2
Emmons Canyon Drive	Stone Valley Road 4935AJ	end @ 1564 Emmons Canyon Drive	33	2,218	8,133	73.2	11.7
Emmons Canyon Court	Emmons Canyon Drive 4935BG	end @ 21Emmons Canyon Court	29	264	851	7.7	1.2
Golden Meadow Drive	Green Valley Road 4933	Red Wing Drive 4935BL	31	581	2,001	18.0	2.9
Golden Meadow Place	Red Wing Drive 4935BL	end @ 334 Golden Meadow Place	29	634	2,043	18.4	2.9
Red Wing Drive	north end @ 465 Red Wing Drive	Golden Meadow Place 4935BK	29	898	2,894	26.0	4.2
Red Wing Drive	Golden Meadow Place 4935BK	south end @ 400 Red Wing Drive	29	792	2,552	23.0	3.7
Viking Place	Red Wing Drive 4935BL	end @ 216 Viking Place	29	581	1,872	16.8	2.7
Lupin Place	Red Wing Drive 4935BL	end @ 63 Lupin Place	29	264	851	7.7	1.2
Wild Flower Place	Green Valley Road 4933	end @ 532 Wild Flower Place	29	634	2,043	18.4	2.9
Golden Ridge Road	Golden Ridge Lane	branch @ 166 Golden Ridge Road	33	370	1,357	12.2	2.0
Golden Ridge Road	166 Golden Ridge Road	129 Golden Ridge Road	34	528	1,995	18.0	2.9
Golden Ridge Road	129 Golden Ridge Road	Stone Valley Road 4331A	33	158	579	5.2	0.8

Spreadsheet 1

**2015 Pavement Surface Treatment Project
Alamo Area
List Of Streets For Surface Treatment**

Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Aggregate (Tons)	Emulsion (Tons)
Golden Ridge Road	Stone Valley Road 4331A	ne end @ 103 Golden Ridge Rd	29	370	1,192	10.7	1.7
Imrie Place	Red Wing Drive 4935BL	end @ 267 Imrie Place	29	528	1,701	15.3	2.4
Bryan Court	Stone Valley Road 4935AJ	end @ 36 Bryan Court 5035A	29	264	851	7.7	1.2
Bryan Drive	Stone Valley Road 4935AJ	Carleton Way 5035D	33	1,109	4,066	36.6	5.9
Bryan Drive	Carleton Way 5035D	end @ 391 Bryan Drive	29	950	3,061	27.6	4.4
Hamilton Court	Stone Valley Road 4935AJ	end @ 44 Hamilton Court	29	264	851	7.7	1.2
Carleton Way	Bryan Drive 5035B	end @ 537 Carleton Way	33	1,056	3,872	34.8	5.6
Carol Court	Carleton Way 5035D	end @ 206 Carol Ct	29	422	1,360	12.2	2.0
Florence Court	Carleton Way 5035D	end @ 107 Florence Court	29	422	1,360	12.2	2.0
Amanda Court	Carleton Way 5035D	end @ 89 Amanda Court	29	528	1,701	15.3	2.4
Green Valley Road	Stone Valley Road 4331A	n. line 1872 Green Valley Road	40	506	2,249	20.2	3.2
Green Valley Road	n. line 1872 Green Valley Road	Donahue Lane	30	832	2,773	25.0	4.0
Green Valley Road	Donahue Lane	1951 Green Valley Road	25	1,408	3,911	35.2	5.6
Green Valley Road	1951 Green Valley Road	end @ Mount Diablo State Park	32	3,668	13,042	117.4	18.8
Stone Valley Road	Green Valley Road 4331B	Todd Court 4935AE	37	1,742	7,162	64.5	10.3
Stone Valley Road	Todd Court 4935AE	3351 Stone Valley Road	37	3,062	12,588	113.3	18.1
Stone Valley Road	n. line 3351 Stone Valley Road	1400 Emmons Canyon Dr 4935BG	33	158	579	5.2	0.8
Stone Valley Road	1400 Emmons Canyon Dr 4935BG	n. line 3455 Stone Valley Road	33	1,637	6,002	54.0	8.6
Stone Valley Road	n. line 3455 Stone Valley Road	Golden Ridge Road 4935BQ	33	264	968	8.7	1.4
Approximate additional cul-de-sac pavement area =					8,300	74.7	12.0
					Totals	169,231	1,523
						232	

Spread Sheet 2

**2015 Slurry Seal Project
Pleasant Hill Area
List Of Streets To Be Slurry Sealed**

Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Aggregate(Tons)	Emulsion (Tons)
Buskirk Avenue	Treat Boulevard	I 680 north bound on-ramp	30	1,200	4,000	32.0	5.1
Coggins Drive	P.H. City limits near 250 Coggins Drive	bend in road	25	264	733	5.9	0.9
Coggins Drive	bend in road	Las Juntas Way	39	1,214	5,261	42.1	6.7
Jones Road	Treat Boulevard	Oak Road	42	1,270	5,927	47.4	7.6
Oak Road	Treat Boulevard	Jones Road	74	581	4,777	38.2	6.1
Oak Road	Todd Lane	Walden Road	22	1,426	3,486	27.9	4.5
Las Juntas Way	Oak Road	Del Hombre Lane	38	1,742	7,355	58.8	9.4
Elmwood Drive	Birch Drive 4057AD	Cherry Lane	28	792	2,464	19.7	3.2
Birch Drive	Elmwood Drive 4057AC	end @ 45 Birch Drive	28	370	1,151	9.2	1.5
Ravenwood Drive	Elmwood Drive 4057AC	end @ 40 Ravenwood Drive	20	370	822	6.6	1.1
Frances Way	Cherry Lane 4057B	end @ 60 Frances Way	25	634	1,761	14.1	2.3
Wayne Drive	Buskirk Avenue	Oak Road	50	1,320	7,333	58.7	9.4
East Elmwood Drive	Cherry Lane 4057B	end @ 1155 East Elmwood Drive	25	581	1,614	12.9	2.1
Elmwood Court	East Elmwood Drive 4057AL	end @ 40 Elmwood Court	25	475	1,319	10.6	1.7
Woodlawn Drive	Mayhew Way 4054J	Ludell Drive 4057AU	27	581	1,743	13.9	2.2
Ludell Drive	west side 147 Ludell Drive	Oberon Drive 4057BG	33	211	774	6.2	1.0
Ludell Drive	Oberon Drive 4057BG	end @ 212 Ludell Drive	27	686	2,058	16.5	2.6
Ludell Court	Ludell Drive 4057AU	end	27	264	792	6.3	1.0
Kingston Place	Oak Road 4054B	end @ 55 Kingston Place	25	845	2,347	18.8	3.0
Briarwood Way	Cherry Lane 4057B	end	33	1,056	3,872	31.0	5.0
Briarwood Court	Briarwood Way 4057BC	end	29	422	1,360	10.9	1.7
Foss Court	Briarwood Way 4057BC	end	29	158	509	4.1	0.7
Titania Court	Oberon Drive 4057BG	end	27	158	474	3.8	0.6
Oberon Drive	Mayhew Way 4054J	Ludell Drive 4057AU	33	581	2,130	17.0	2.7
Cedarbrook Court	Cherry Lane 4057B	end	29	422	1,360	10.9	1.7
Jones Road	Treat Boulevard	Coggins Drive	24	915	2,440	19.5	3.1
Oak Road west side of BART	P.H. City limits @ Buskirk Avenue	Las Juntas Way	80	634	5,636	45.1	7.2
Oak Road west side of BART	Las Juntas Way	Wayne Drive	70	465	3,617	28.9	4.6
Oak Road west side of BART	Wayne Drive	BART tracks	85	600	5,667	45.3	7.3
Oak Road west side of BART	BART tracks	Treat Boulevard	42	211	985	7.9	1.3
Lommel Court	Cherry Lane 4057B	end	29	211	680	5.4	0.9
Kings Oak Place	Cherry Lane 4357B	end	29	686	2,210	17.7	2.8
Wayside Plaza	Coggins Drive	end 160 ft. in from Coggins Drive	30	160	533	4.3	0.7
Cora Court	Cherry Lane	end	20	845	1,878	15.0	2.4
		Approximate additional cul-de-sac pavement area =			3,900	31.2	5.0
				Totals	92,968	744	119

Spread Sheet 3

**2015 Slurry Seal Project
El Sobrante Area
List Of Streets To Be Slurry Sealed**

Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Aggregate (Tons)	Emulsion (Tons)
Hunters Lane	San Pablo Dam Road 0961D	End @ 5870 Hunters Lane 1565A	22	581	1,420	11.4	1.8
Dias Court	Amend Road 1565N	50 Dias Court 1565AA	29	422	1,360	10.9	1.7
Martis Court	Valley View Road 1371B	End @ 5428 Martis Court 1565AB	29	528	1,701	13.6	2.2
Regency Court	La Honda Road 1565Q	end @ 226 Regency Court	29	686	2,210	17.7	2.8
Travalini Court	Amend Road 1565N	End @ 175 Travalini Ct 1565AD	29	634	2,043	16.3	2.6
Lois Lane	San Pablo Dam Road	end @ 645 Lois Lane	29	686	2,210	17.7	2.8
Nottingham Drive	Robin Hood Drive 1565F	Marion Way 1565G	33	1,426	5,229	41.8	6.7
Nottingham Court	Robin Hood Drive 1565F	End @ 5660 Nottingham Court	28	264	821	6.6	1.1
Sherwood Forest Drive	Castro Ranch Road 1461	Robin Hood Drive 1565F	33	1,478	5,419	43.4	6.9
Robin Hood Drive	Olinda Road 1664A	Nottingham Drive 1565C	50	211	1,172	9.4	1.5
Robin Hood Drive	Nottingham Drive 1565C	Marion Way 1565G	33	1,901	6,970	55.8	8.9
Marion Way	Nottingham Drive	Robin Hood Drive 1565F	33	475	1,742	13.9	2.2
Marion Court	Nottingham Drive	End @ 4026 Marion Court 1565H	60	75	500	4.0	0.6
Cobblestone Court	Castro Ranch Road 1461	End 5918 Cobblestone Court	28	158	492	3.9	0.6
Archery Way	Olinda Road 1664A	Sherwood Forest Drive 1565E	33	528	1,936	15.5	2.5
Kay Ann Court	San Pablo Dam Road 0961D	end @ 515 Kay Ann Court	25	581	1,614	12.9	2.1
Friar Court	Robin Hood Drive 1565F	end @ 5771 Friar Court	28	158	492	3.9	0.6
Amend Road	5501 Amend Road	Travalini Court 1565AD	37	1,373	5,645	45.2	7.2
Oak Creek Road	San Pablo Dam Road 0961D	End @ 15 Oak Creek Road 1565P	24	528	1,408	11.3	1.8
La Honda Road	San Pablo Dam Road 0961D	Regency Court 1565AC	22	739	1,806	14.5	2.3
La Honda Road	Regency Court 1565AC	D Avila Way 1565R	24	1,320	3,520	28.2	4.5
D Avila Way	San Pablo Dam Road 0961D	La Honda Road 1565Q	28	845	2,629	21.0	3.4
D Avila Way	La Honda Road 1565Q	Valley View Road 1371B	33	264	968	7.7	1.2
Heide Court	Hillside Drive 1664B	end @ 2542 Heide Court	29	528	1,701	13.6	2.2
Patra Drive	Hillside Drive 1664B	end @ 2575 Patra Drive	33	1,003	3,678	29.4	4.7
Jo Lin Court	Valley View Road 1371B	end @ Jo Lin Court	28	370	1,151	9.2	1.5
La Honda Court	La Honda Road 1565Q	end @ 34 La Honda Court	24	370	987	7.9	1.3
Christopher Court	Valley View Road 1371B	end @ 54 Christopher Court	33	475	1,742	13.9	2.2
Carter Court	La Honda Road 1565Q	end @ 40 Carter Court	28	317	986	7.9	1.3
Simoni Court	Amend Road 1565N	City limit @ 5104 Simoni Court	28	158	492	3.9	0.6
Pamela Court	Amend Road 1565N	City limit @ 206 Pamela Court	28	158	492	3.9	0.6
Castro Ranch Road	San Pablo Dam Road 0961D	Olinda Road @ Richmond C.L.	53	1,162	6,843	54.7	8.8
Olinda Road	Valley View Road 1371B	Robin Hood Drive 1565F	30	2,323	7,743	61.9	9.9
Olinda Road	Robin Hood Drive 1565F	Castro Ranch Road 1461	37	1,690	6,948	55.6	8.9
Hillside Drive	Castro Ranch Road 1461	End @ Kennedy Grove Park	32	3,379	12,014	96.1	15.4
Approximate additional cul-de-sac pavement area =					3,300	26.4	4.2
Totals					98,084	811	130

**2015 Surface Treatment Program
East Richmond Area Roads
Asphalt Rubber Cape Seal**

	Street ID	Section ID	FC	Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Last Treatment
1	1061A	0005	A	McBryde Avenue	Arlington Boulevard 1061B	Richmond CL Park Avenue 1161A	37	264	1,085	2001 cape seal
2	1061B	0125	A	Arlington Boulevard	McBryde Avenue 1061A	E. C. CL @ Aqua Vista Road	37	6,600	27,133	2001 cape seal
3	1062	0013	A	Solano Avenue	Richmond CL @ east L/L 777	Arlington Boulevard 1061B	37	380	1,562	2001 cape seal
4	1065A	0035	R	Claremont Avenue	Arlington Boulevard 1061B	End @ Mira Vista School	29	1,848	5,955	2001 cape seal
5	1065AA	0005	R	Crest Avenue	Plymouth Aveune 1065Z	Bernhard Avenue 1065W	24	264	704	2001 cape seal
6	1065AB	0031	R	Highland Avenue	Bernhard Avenue 1065W	Arlington Boulevard 1061B	27	1,637	4,911	2001 cape seal
7	1065AD	0007	R	Taft Avenue	Kensington Avenue 1065AE	Highland Avenue 1065AB	28	370	1,151	2001 cape seal
8	1065AE	0034	R	Kensington Avenue	Bernhard Avenue 1065W	Palm Avenue 1065AL	33	1,795	6,582	2001 cape seal
9	1065AF	0014	R	Richmond Avenue	Palm Avenue 1065AL	Del Monte Avenue 1065AG	28	739	2,299	2001 cape seal
10	1065AG	0015	R	Del Monte Avenue	2754 Del Monte E.C.CL	end	25	792	2,200	2001 cape seal
11	1065AH	0006	R	Scenic Avenue	Richmond Avenue 1065AF	end	25	317	881	2001 cape seal
12	1065AJ	0006	R	Fairview Avenue	Richmond Avenue 1065AF	end	25	317	881	2001 cape seal
13	1065AK	0008	R	Aqua Vista Road	Arlington Boulevard 1061B	Richmond Avenue 1065AF	25	422	1,172	2001 cape seal
14	1065AK	0013	R	Aqua Vista Road	Richmond Avenue 1065AF	End	25	264	733	2001 cape seal
15	1065AL	0006	R	Palm Avenue	Richmond Avenue 1065AF	end	25	317	881	2001 cape seal
16	1065AM	0007	R	Sequoia Avenue	Kensington Avenue 1065AE	end	28	370	1,151	2001 cape seal
17	1065AN	0008	R	Poplar Avenue	Kensington Avenue 1065AE	end	25	422	1,172	2001 cape seal
18	1065AP	0008	R	Laurel Avenue	Kensington Avenue 1065AE	end	25	422	1,172	2001 cape seal
19	1065AQ	0009	R	Cypress Avenue	Arlington Boulevard	Kensington Avenue	25	487	1,353	2001 cape seal
20	1065AQ	0015	R	Cypress Avenue	Kensington Avenue	Bernhard Avenue	25	305	847	2001 cape seal

**2015 Surface Treatment Program
East Richmond Area Roads
Asphalt Rubber Cape Seal**

	Street ID	Section ID	FC	Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Last Treatment
21	1065AR	0011	R	Sierra Avenue	5712 Sierra Ave @ E.C. CL	east end	25	581	1,614	2001 cape seal
22	1065AS	0010	R	Dimm Way	Bernhard Avenue 1065W	north side 6037 Dimm Way	25	528	1,467	2001 cape seal
23	1065AT	0068	R	McBryde Avenue	Arlington Boulevard	Rich CL @ 6197 McBryde Avenue	22	3,590	8,776	2001 cape seal
24	1065AU	0055	R	Park Avenue	Wildcat Canyon Parkway 1161B	end @ park district gate	20	2,904	6,453	2001 cape seal
25	1065AW	0004	R	Aqua Vista Court	Aqua Vista Road	end @ 6608 Aqua Vista Court	24	211	563	2001 cape seal
26	1065AX	0007	R	Zinn Street	Highland Avenue @ Plymouth	Arlington Boulevard 1061B	25	370	1,028	2001 cape seal
27	1065AX	0009	R	Zinn Street	Arlington Boulevard 1061B	west end	25	106	294	2001 cape seal
28	1065AY	0007	R	Doremus Avenue	Ravine Way 1065P	Rich CL @ Courtland Street	20	370	822	2001 cape seal
29	1065AZ	0003	R	Nome Avenue	Bernhard Avenue	end	25	150	417	2001 cape seal
30	1065B	0020	R	Hazel Avenue	Sonoma Avenue @ Richmond CL	Mira Vista Drive 1065H	33	1,056	3,872	2001 cape seal
31	1065B	0046	R	Hazel Avenue	Mira Vista Drive 1065H	Alta Vista Dr @ El Cerrito CL	21	1,373	3,204	2001 cape seal
32	1065C	0010	R	Olive Avenue	Hazel Avenue 1065B	Arlington Boulevard 1061B	25	528	1,467	2001 cape seal
33	1065C	0017	R	Olive Avenue	Arlington Boulevard	Kensington Avenue	25	360	1,000	2001 cape seal
34	1065C	0025	R	Olive Avenue	Kensington Avenue	west side 1505 Olive Ave.	25	365	1,014	2001 cape seal
35	1065D	0004	R	Elm Avenue	Claremont Avenue 1065A	Arlington Boulevard 1061B	26	211	610	2001 cape seal
36	1065D	0016	R	Elm Avenue	Arlington Boulevard 1061B	Kensington Avenue 1065AE	33	634	2,325	2001 cape seal
37	1065D	0023	R	Elm Avenue	Kensington Avenue 1065AE	Bernhard Avenue 1065N	26	370	1,069	2001 cape seal
38	1065E	0007	R	Tassajara Avenue	Hazel Avenue 1065B	1934 Tassajara Ave @ E.C. CL	22	370	904	2001 cape seal
39	1065F	0009	R	Carquinez Avenue	Hazel Avenue 1065B	1936 Carquinez Ave @ E.C.CL	22	475	1,161	2001 cape seal
40	1065G	0012	R	Francisco Way	Hazel Avenue 1065B	1930 Francisco Way @ E.C.CL	22	634	1,550	2001 cape seal
41	1065H	0012	R	Mira Vista Drive	Hazel Avenue 1065B	2646 Mira Vista Dr @ E.C.CL	35	634	2,466	2001 cape seal
42	1065J	0034	R	Tulare Avenue	Arlington Boulevard	Hazel Avenue	33	1,802	6,607	2001 cape seal

**2015 Surface Treatment Program
East Richmond Area Roads
Asphalt Rubber Cape Seal**

	Street ID	Section ID	FC	Street Name	Beginning Location	Ending Location	Width (ft)	Length (ft)	Area (sy)	Last Treatment
43	1065J	0040	R	Tulare Avenue	Hazel Avenue	Ray Avenue	33	310	1,137	2001 cape seal
44	1065K	0025	R	Ralston Avenue	Clinton Avenue 1065L	Hazel Avenue 1065B	28	1,320	4,107	2001 cape seal
45	1065K	0030	R	Ralston Avenue	Hazel Avenue 1065B	Ray Avenue @ El Cerrito CL	28	264	821	2001 cape seal
46	1065L	0012	R	Clinton Avenue	Richmond CL @ 5760 Clinton Ave	Yale Avenue 1065M	33	634	2,325	2001 cape seal
47	1065M	0019	R	Yale Avenue	Tulare Avenue 1065J	Sonoma Street	23	1,003	2,563	2001 cape seal
48	1065N	0003	R	Loring Avenue	Ralston Avenue 1065T	end @ Adams Middle School	20	158	351	2001 cape seal
49	1065P	0005	R	Ravine Way	Ralston Avenue	Doremus Avenue 1065AY	20	264	587	2001 cape seal
50	1065R	0017	R	Patterson Circle	Arlington Boulevard 1061B	Arlington Boulevard 1061B	27	898	2,694	2001 cape seal
51	1065S	0010	R	Rosalind Avenue	Arlington Boulevard 1061B	school	24	528	1,408	2001 cape seal
52	1065T	0020	R	Ralston Avenue	Yale Avenue	Solano Avenue	26	1,056	3,051	2001 cape seal
53	1065T	0060	R	Ralston Avenue	Solano Avenue 1062	McBryde Avenue	33	2,112	7,744	2001 cape seal
54	1065W	0079	R	Bernhard Avenue	Arlington Boulevard 1061B	Cypress Avenue 1065AQ	33	4,171	15,294	2001 cape seal
55	1065X	0030	R	Monterey Avenue	Arlington Boulevard 1061B	Bernhard Avenue 1065N	33	1,584	5,808	2001 cape seal
56	1065Y	0015	R	Felix Avenue	Bernhard Avenue 1065W	Plymouth Avenue 1065Z	29	792	2,552	2001 cape seal
57	1065Z	0044	R	Plymouth Avenue	Highland Avenue 1065AB	Monterey Avenue 1065X	25	2,323	6,453	2001 cape seal
58	1161A	0016	A	Park Avenue	McBryde Avenue 2061A	Wildcat Canyon Parkway 1161A	31	880	3,031	2001 cape seal
								Total area =	172,431	sy
								Estimated cost = \$7.25/sy :	\$1,250,122	

**2015 Surface Treatment Program
Shadowcreek Area North of Camino Tassajara
Asphalt Rubber Cape Seal**

By: H. Finch
July 25, 2013

	Street ID	Section ID	FC	Road Name	Begin Location	End Location	Width (ft)	Length (ft)	Area (sy)	Treatment Date
1	5525A	0006	R	Mrack Road	Oakgate Drive	south line 125 Mrack Road	28	317	986	2003 cape seal
2	5525A	0018	R	Mrack Road	south line 125 Mrack Road	End @ Courtney Lane	28	634	1,972	2003 cape seal
3	5525AA	0005	R	Sweet Water Court	Sweet Water Drive	end	32	264	939	2003 cape seal
4	5525AB	0015	R	Sweet Water Drive	Green Meadow Drive	Sweet Water Court	36	792	3,168	2003 cape seal
5	5525AC	0006	R	Northwood Court	Sweet Water Court	End	32	317	1,127	2003 cape seal
6	5525AD	0030	R	Green Meadow Drive	Blackhawk Meadow Drive	west line 64 Spring Water Ct	36	1,584	6,336	2003 cape seal
7	5525AE	0014	R	Feather River Street	Green Meadow Drive	Spring Water Street 5525AG	36	739	2,956	2003 cape seal
8	5525AF	0005	R	Feather River Court	Green Meadow Drive	end @ 67 Feather River Court	32	264	939	2003 cape seal
9	5525AG	0014	R	Spring Water Street	Green Meadow Drive	Feather River Street	36	739	2,956	2003 cape seal
10	5525AH	0005	R	Spring Water Court	Green Meadow Drive	end @ 84 Spring Water Court	32	264	939	2003 cape seal
11	5525AJ	0007	R	Snow Mountain Court	Spring Water Street	end	32	370	1,316	2003 cape seal
12	5525AK	0009	R	Sun Tree Court	Clear Lake Street	end	32	475	1,689	2003 cape seal
13	5525AL	0005	R	Snow Melt Court	Sweet Water Drive	end	32	264	939	2003 cape seal
14	5525AM	0006	R	Sun Stream Court	Blackhawk Meadow Drive	end	32	317	1,127	2003 cape seal
15	5525AN	0009	R	Garrigan Court	Oakgate Drive	end	32	475	1,689	2003 cape seal
16	5525AP	0007	R	Oakgate Drive	Camino Tassajara	Mrack Road	35	200	778	2003 cape seal
17	5525AP	0014	R	Oakgate Drive	Mrack Road	end at cul-de-sac	33	538	1,973	2003 cape seal
18	5525B	0002	R	Rockcreek Court	Knollview Drive	end @ 4199 Rockcreek Court	29	128	412	2003 slurry seal
19	5525C	0010	C	Rockcreek Drive	Shadow Creek Drive	Knollview Drive	33	542	1,987	2003 cape seal
20	5525D	0002	R	Clearstream Court	Rockcreek Drive	end @ 79 Clearstream Court	29	120	387	2003 cape seal
21	5525E	0011	R	Coolspring Court	Knollview Drive	end @ 155 Cool Spring Court	29	590	1,901	2003 cape seal
22	5525F	0011	R	Crystal Springs Court	Knollview Drive	end @ 651 Crystal Spings Court	29	600	1,933	2003 cape seal
23	5525G	0004	R	Eastbrook Court	Knollview Drive	end @ 823 Eastbrook Court	29	200	644	2003 cape seal
24	5525H	0006	R	Westbrook Court	Knollview Drive	end @ 733 Westbrook Court	29	322	1,038	2003 cape seal
25	5525J	0039	C	Knollview Drive	Camino Tassajara	Rockcreek Drive 5525C	33	2,070	7,590	2003 cape seal
26	5525K	0011	R	Knollwood Court	Knollview Drive	end @ 563 Knollwood Court	29	586	1,888	2003 cape seal

**2015 Surface Treatment Program
Shadowcreek Area North of Camino Tassajara
Asphalt Rubber Cape Seal**

By: H. Finch
July 25, 2013

	Street ID	Section ID	FC	Road Name	Begin Location	End Location	Width (ft)	Length (ft)	Area (sy)	Treatment Date
27	5525L	0008	R	Stoneybrook Court	Knollview Drive	end @ 445 Stoneybrook Court	29	445	1,434	2003 cape seal
28	5525M	0009	R	Deepecreek Court	Knollview Drive	end @ 344 Deepecreek Court	29	450	1,450	2003 cape seal
29	5525N	0011	R	Laurelglen Court	Knollview Drive	end @ 259 Laurel Glen Court	29	598	1,927	2003 cape seal
30	5525P	0004	C	Shadow Creek Drive	Camino Tassajara	Rockcreek Drive	48	190	1,013	2003 cape seal
31	5525P	0042	C	Shadow Creek Drive	Rockcreek Drive	Blackhawk Meadow Drive	37	2,028	8,337	2003 cape seal
32	5525Q	0014	R	Creekpoint Court	Shadow Creek Drive	end @ 4100 Creek Point Court	29	730	2,352	2003 cape seal
33	5525S	0007	R	Shadow Creek Court	Shadow Creek Drive	end	32	370	1,316	2003 cape seal
34	5525T	0026	R	Blackhawk Meadow Drive	Shadow Creek Drive	Green Meadow Drive	37	1,344	5,525	2003 cape seal
35	5525U	0009	R	Walnut Creek Court	Blackhawk Meadow Drive	end	32	475	1,689	2003 cape seal
36	5525V	0007	R	Honey Lake Court	Blackhawk Meadow Drive	end	32	370	1,316	2003 cape seal
37	5525W	0009	R	Gold Lake Court	Blackhawk Meadow Drive	end	32	475	1,689	2003 cape seal
38	5525X	0005	R	Meadow View Court	Sun Tree Court	end	32	264	939	2003 cape seal
39	5525Y	0008	R	Clear Lake Street	Blackhawk Meadow Drive	Clear Lake Court	36	422	1,688	2003 cape seal
40	5525Z	0004	R	Clear Lake Court	Clear Lake Street	end	32	211	750	2003 cape seal
								Subtotal area =	81,033	sy
								Approximate additional cul-de-sac pavement area =	5,800	sy
								Total area =	86,833	sy
								Estimated cost = \$7.25/sy:	\$629,541	

Spread Sheet 10