

Appendix E: Recreation, Access, and Transportation Project Details

Trail Management Guidelines

The creek trail system is envisioned to be a very low maintenance facility consisting primarily of paved and unpaved trails and natural or naturalized vegetation areas. Potential management and maintenance tasks are outlined below as a guide for estimating the necessary staff and resources.

Facility Management

City, Water Agency, Regional Parks, planning or maintenance staff, and others, will share responsibilities for the following general management activities, according to their jurisdictions:

- Inspection of conditions and addressing general use issues.
- Coordination with user and interest groups, neighboring property owners associations, and individual property owners, residents and citizens.
- Active use management - Volunteer Creek Stewards, and other formal volunteer trail patrol groups, as well as informal groups, could share active management duties, potentially including:
 - Patrol and oversight of trail use; notifying violators about rules, and notifying Police about criminal activity.
 - Observation and reporting of trail conditions and issues.
 - Posting of signs, notices and information about changed conditions, events, etc.
 - General coordination with City staff, Water Agency staff, Regional Parks staff, etc. regarding trail management issues.
 - Emergency contact point for police, fire, etc.
 - Help coordinate volunteer clean-up, trail maintenance, weed management and re-planting, environmental education, and special events.
 - Maintain a log of trail maintenance, management and coordination activities.
 - Coordination with agencies, organizations, businesses, schools, churches, etc. with adjacent or overlaying property, facilities, or interests in the Creek Trail System.
 - Coordination with schools and environmental organizations that may conduct environmental education activities, or low-intensity recreation activities such as nature walks and day camps.
- Law enforcement and fire protection - the City of Santa Rosa Police and Fire Departments or the comparable agencies in the unincorporated area will be directly responsible for addressing crime and fire safety issues.

Maintenance

Potential responsible parties for trail maintenance, depending on the location and maintenance agreements or arrangements, may include:

- City of Santa Rosa Public Works Department;
- City of Santa Rosa Recreation and Parks Department;
- City of Santa Rosa Creek Stewardship Program, including coordination of volunteers;
- Sonoma County Water Agency;
- Sonoma County Regional Parks;
- Sonoma County Agricultural Preservation and Open Space District.

Basic trail maintenance requirements would include the following tasks:

- Maintenance and minor repair of boundary fences;
- Annual mowing, trimming, and spraying of adjacent vegetated areas to keep the trail clear and manage fuel load for fire protection purposes.
- Conventional landscape maintenance of portions of the trail corridor that have formal landscaping.
- Cleaning of drainage culverts, inlets, and ditches.
- Minor repairs, painting, etc. on signs, benches, kiosks, artwork.
- Graffiti removal
- Litter pick-up and emptying trash receptacles.
- Periodic sweeping of the paved trails.
- Maintenance and repair of unpaved trails, especially after storms.
- Periodic tree pruning and clean-up of branches and leaf litter.

Repair and Replacement

Staff or contractors will eventually be required to undertake the following types of repairs:

- Repair and re-surfacing of the paved trails/service roads (potentially shared with the Water Agency and utilities companies that also may use the trails as roads).
- Repair and re-grading of unpaved and dirt/soft trails.
- Replacement of signage due to age and vandalism.
- Repair and replacement of restroom facilities.
- Repair and replacement of light fixtures.
- Repair and replacement of entry structures, such as bollards.
- Repair and replacement of fencing.
- Repair and replacement of irrigation systems.
- Replanting of formal landscaping.

About the Quantity and Detail Tables

Tables are provided to quantify the features and details of the proposed trail system.

Table E-1 quantifies the existing and proposed components of the overall recreation, access and transportation system in the Master Plan.

Crossings and entry points involve a significant amount of information that is too complex to show on the maps or describe in the Master Plan. Tables have been prepared to record this information. Crossings and entries are numbered on the maps, and cross-referenced to these tables. Data descriptions and summaries are provided below, and detailed “Master Tables” follow.

The data for the trail crossing and trail entries at each cross street is recorded in quadrants as if viewing the street from the upstream side, looking downstream:

- USR = the upstream side of the road on the right bank of the creek
- USL = the upstream side of the road on the left bank of the creek
- DSR = the downstream side of the road on the right bank of the creek
- DSL = the downstream side of the road on the left bank of the creek

Where a street crossing and associated entry points fall between two creek reaches, all the entry points on that street are typically included in the data for the upstream reach.

Street and Rail Crossings

Table E-2 shows the details of the conditions and proposed improvements at each crossing. The crossings are grouped under the creek reach in which they occur. Street crossings that fall on the boundary between two creek reaches are typically included in the data for the upstream reach (lower reach number).

Crossings may be either “at grade” – meaning trail users must cross through vehicle traffic to continue, or “undercrossings” - meaning there is a bridge to carry vehicle traffic over the creek and the trail passes under the bridge. The data records whether the under-crossing exists on the right or the left bank (looking downstream) or on both sides. It indicates if the under-crossing is dry season only – impassible during high creek flows, and whether the slope and paving of any associated ramps meet standards for access to people with disabilities (ADA).

“Roadway Functional Classification” is data from the City’s GIS for the service level of the street. Classifications include

“Existing Crossing Protection” may include a crosswalk, school crosswalk, special crosswalk paving or striping, traffic signal, pedestrian/bike-activated signal, and a ped/bike signal with a “countdown timer”, audible signals, median safety island, and existing bump-outs to reduce crossing distance.

“Distance to Nearest Crosswalk” is important to determine whether it is reasonable to route trail users to that point, or necessary to establish a crossing closer to the creek.

“Street Lighting” indicates whether overhead lighting is present in the general area or not.

“Proposed Treatment Type” is one of a set of typical “packages” of crossing improvements designed for different types of road and rail crossings. These are presented in Section 3.2 of the Master Plan.

Trail Entry Points

Table E-2 details the conditions and proposed improvements for creek trail entry points, which are either street crossing entries or mid-block entries. The entries are grouped under the creek reach in which they occur. Mid-block entry points may occur at several points along a reach, either on the right bank (R) or left bank (L) , looking downstream.

Existing and planned entry features include a range of entry barriers or openings, and how they are proposed to change to implement the creek trail system. Section 3.2 of the Master Plan presents typical details for trail entry points. Paving for trail entry points is included in the master tables for roads and trails.

Annotated Bibliography

Maps/Plans

Bike and Footpaths, Schools, and Parks of the Santa Rosa Area. City of Santa Rosa Public Works Department. Draft 6/23/2005.

44" by 36", shows existing and proposed footbridges, paved, unpaved, state and regional trails, bikeways, proposed trail or bikeways, no access service roads, creeks, and schools. Hand marked with City of Santa Rosa Creek projects.

Bike Sonoma Transportation and Recreation Map. Sonoma County Bicycle Coalition. Prepared by 360 Geographpics. 2005.

Countywide and city of Santa Rosa maps show main roads as high-medium-low traffic, bike paths as paved/unpaved and Central Business District Route.

Lower Colgan Creek Conceptual Restoration Plan Alternatives #1. Prepared by Prunuske and Chatham, Occidental, CA for the City of Santa Rosa. Three sheets. June, 2000.

Two sheets plan view showing riffles, boulders, existing banks, flood plains, bike paths, proposed riffles, boulders, park and pedestrian bridge. One sheet of three sections; typical existing and proposed grades and a enlarged section of typical proposed grade for paths, parks, flood plains, stream banks and channel, boulders, easements and water levels. Also shows tree by common name.

Pierson Reach Conceptual Plan. Prepared by RRM, San Luis Obispo, CA for the City of Santa Rosa. Two sheets. April 25, 2000.

One sheet plan view showing park, creek and railroad crossing/access, future bike path, commercial/retail use and revegetation areas. One sheet of five specific cross sections shows creek flood level, overlooks, guard rails, bridges, bollards, rock walls and low flow pools.

Proposed locations for Santa Rosa Creek signs. Alistair Bleifuss, Creek Stewardship Program, Public Works Department, City of Santa Rosa.. December 16, 2002.

One 11" by 17" sheet of 20 sign locations by intersection and corner for installation in 2003 and later.

Roseland Creek Upper Restoration Reach Alt #1 and #2; Conceptual Habitat Enhancement Plan. Prepared by Carlisle-Macy, Santa Rosa, CA. Five sheets. November, 2004.

Alternative #1 includes two sheets of plan views and third sheet of two cross sections detailing boulder toe protections, riffles, log and boulder cross vanes, signage, picnic area and a 12' wide bike path. Alternative #2 uses same improvements with slightly different creek alignment and a larger picnic area.

Santa Rosa Creek Citywide Master Plan Existing Conditions Survey. City of Santa Rosa and the National Park Service-Rivers, Trails and Conservation Assistance Program. August, 2005.

Series of six large maps accompany the photos and notes of the survey and locate road conditions, trail potential, road crossing needs, safety factors, existing support facilities, parking potential, and potential conflicts with habitat and property/privacy concerns. Upper Colgan Creek Concept, Concept Grading and Concept Planting Plans. Draft copy with mark-up. Prepared by City of Santa Rosa and Quadriga. Three sheets. April 28, 2005.

Sheet #1 addresses pedestrian/trail access and linkage, fencing, creek restoration and culverts. Sheet #2 shows existing channelization contours and grading proposed to create meanders and habitat diversity. Sheet #3 shows existing plant species and proposes 10 tree species to be planted.

Watershed Reaches. Prepared by Mike Hargreaves; City of Santa Rosa Information Technology Department. February 2006.

Series of eight maps displaying the numbered creek planning "reaches" or areas used by the Santa Rosa Creek Citywide Master Plan Existing Conditions Survey.

Unnamed Field Notes. Compiled by Sonoma County Water Agency with edits by Alistair Bleifuss, Creek Stewardship Program, Public Works Department, City of Santa Rosa. c. 2002.

Three 11" by 17" sheets, covering majority of City, locating access points with type of path (paved/unpaved) and type of access (bollard, step over, chain link, etc)

Documents

Santa Rosa Creek Master Plan, the City of Santa Rosa, the County of Sonoma.

The Sonoma County Water Agency. Adopted September 21, 1993. Prepared by the Santa Rosa Creek Planning Team.

Creek Dreams; Expanding the Vision; Community Ideas for a Citywide Creek Master Plan in Santa Rosa. The City of Santa Rosa and various partners. October, 2004.

Creek Master Plan Committee brochure reporting community outreach, participation process; ideas and comments divided by five watersheds with sketch map for each. 28 pages.

Pedestrian Crossings. Compiled by Alistair Bleifuss, Creek Stewardship Program, Public Works Department, City of Santa Rosa. Updated May 17, 2006.

Table of footbridges, with indication as to whether they were shown on the 6-23-05 map.

Santa Rosa Creek Citywide Master Plan Existing Conditions Survey. City of Santa Rosa and the National Park Service-Rivers, Trails and Conservation Assistance Program. August, 2005.

Photos, notes and maps with observations on road conditions, trail potential, road crossing needs, safety factors, existing support facilities, parking potential, and potential conflicts with habitat and property/privacy concerns.

Santa Rosa Creek Design Guidelines, City of Santa Rosa. Adopted October, 1997.

Guidelines for grading, crossings, architecture, site furnishings, pathways and signage.

Santa Rosa Waterways Plan, City of Santa Rosa. Adopted April 2, 1996.

Protection and management guidelines, development policies and restoration criteria.

Trash collection sites 12-24-02. Alistair Bleifuss, Creek Stewardship Program, Public Works Department, City of Santa Rosa. 2002

Excel worksheet of 35 prioritized sites for rolling trash receptacles, identified by creek, street and cross street.

Table E-1: Trail System Components

CREEK/REACH	Roads and Trails									Trail System Facilities								
	Existing				New/Proposed					Existing			New/Proposed					
	1. Closed Service Road (not in trail total)	2. Paved Service Road/Trail	3. Unpaved Service Road/Trail	4. Restored Service Road (subtracted from trail total)	5. Dirt or Soft Trail	6. New Paved Trail	7. New Dirt or Soft Trail	8. On-Street Connection	9. Ex. Service Road/Trail to be Paved (not in trail total)	Total Trail System (linear feet)**	Trail Bridge	Trail Entry	Trail/Street Crossing	Undercrossing	New Trail Bridge	New Entry	New Trail/Street Crossing	New Undercrossing
Note: Trail segments more than 500 feet from any Creek Reach were classified as "Not on Reach."																		
Santa Rosa Creek Watershed																		
SANTA ROSA CREEK 1					199		10,011		10,210	1	1						1	
SANTA ROSA CREEK 2		5,342		4,079	4,562		5,159		19,142		2	1	1	3		1	2	
SANTA ROSA CREEK 3					4,832		10,046		14,879				2	1	1	2		
SANTA ROSA CREEK 4		8,814			1,797				10,611	3	1	2	5			2	1	
SANTA ROSA CREEK 5		6,381	5,880				926		13,187				3	1	5			
SANTA ROSA CREEK 6		10,018	15,501					2,146	25,519	1	1		1	3				
SANTA ROSA CREEK 7	6,612		19,442					8,423	19,442	2								
SANTA ROSA CREEK 8	13,970		11,575	4,948				8,769	16,523			1						
COLLEGE CREEK 1		422	3,878			492	3,858		8,649		2	2					1	
SKYHAWK CREEK 1		7,150	1,126		2,727		1,274		12,277	2	1	4		1			3	
OAKMONT CREEK 1		1,393			2,020		15,707		19,120	2		3						
Totals	20,582	39,519	57,402	0	13,774	11,390	492	46,981	19,338	169,559	11	8	13	10	10	6	9	5
Brush Creek Watershed																		
BRUSH CREEK 1							2,074		2,074									
BRUSH CREEK 2		7,281	6,996	(3,038)					11,239	1	6	1	1	1	1			
BRUSH CREEK 3		1,647	344		638				2,629	1	2							
RINCON CREEK 1		1,130				252	3,958	7,591	12,930			1					2	
DUCKER CREEK 1		374	632					1,771	2,777									
DUCKER CREEK 2		3,966	2,350						6,316	3		5		1				
AUSTIN CREEK 1						2,770	4,561		7,331								2	
AUSTIN CREEK 2		3,018	6,058		213	2,813		6,276	18,378	3	4	7		1	1			
AUSTIN CREEK 3		5,075						3,899	8,974	1	1	1		2				
Totals	0	22,490	16,379	(3,038)	851	3,065	6,728	26,171	2,630	72,647	9	13	15	1	5	2	4	0
Matanzas Creek Watershed																		
MATANZAS CREEK 1									0	4								
MATANZAS CREEK 2						* 2,919	6,833		9,752									
MATANZAS CREEK 3		3,946							3,946	1								
MATANZAS CREEK 4		115							115									
SPRING CREEK 1					6,193	225		4,520	10,938	1		1						
SPRING CREEK 2		420	541			* 4,040		5,373	10,373	1		1		1	1	1		
SPRING CREEK 3		2,062				* 1,501		3,970	7,533			1					2	
ARROYO SIERRA CREEK 1		1,816	5,292			4,186		3,430	14,725			4		2			1	
LORNADELL CREEK 1		1,753							1,753	2	2	1						
COOPER CREEK 1									0									
Totals	0	10,112	5,833	0	6,193	12,871	0	24,126	946	59,135	9	2	8	0	3	1	4	0
Piner Creek Watershed																		
PINER CREEK 1									0									
PINER CREEK 2	1,795		3,891					1,338	5,229			3						
PINER CREEK 3			21,618	(9,518)				12,100	12,100	1	1	3		2	3		2	
PETERSON CREEK 1		3,376	8,164	(2,532)	1,327			5,632	10,335	1		2						
FORESTVIEW CREEK 1		790	3,753					2,208	6,751	1		1					1	
COFFEY CREEK 1		2,261				1,120		690	4,071								3	
RUSSELL CREEK 1		3,460	1,212		293			1,080	6,044	1		3						
RUSSELL CREEK 2			3,342					879	4,221			1			1			
STEELE CREEK 1	577	1,298	4,056		687	127		15,384	21,552	1		6		1				
Totals	2,372	11,185	46,035	(12,050)	2,307	1,247	0	21,580	18,572	70,303	5	1	19	0	3	4	4	2
Paulin Creek Watershed																		
PAULIN CREEK 1							610		610			1						
PAULIN CREEK 2		1,728			993		1,366	1,718	5,805	3		1					1	
PAULIN CREEK 3			2,600		1,254		77	7,433	11,364			1					1	
PAULIN CREEK 4		1,928						2,899	4,828			1		1				
PAULIN CREEK 5		3,284	10,745	(2,602)		324		2,532	14,284			8				3		
PAULIN CREEK 6		3,465						1,819	5,284	2				1				
POMO CREEK 1		1,431						2,810	4,241	1								
POPPY CREEK 1			3,580		418	723		4,016	8,736								2	
POPPY CREEK 2		902				646		3,462	5,010	3		1						
Totals	0	12,739	16,925	(2,602)	2,247	1,388	2,166	27,300	1,467	60,162	9	0	13	0	2	3	4	0

* Trail planned in Highway 12 Caltrans ROW

** Total Trail System = length of trails available once new, opened & improved trails are completed, and restored trails are removed.

(Sum of columns 2, 3, 5, 6, 7 & 8 minus column 4)

Table E-1: Trail System Components

CREEK/REACH	Roads and Trails									Trail System Facilities							
	Existing					New/Proposed				Existing				New/Proposed			
	1. Closed Service Road (not in trail total)	2. Paved Service Road/Trail	3. Unpaved Service Road/Trail	4. Restored Service Road removed (subtracted from trail total)	5. Dirt or Soft Trail	6. New Paved Trail	7. New Dirt or Soft Trail	8. On-Street Connection	9. Ex. Service Road/Trail to be Paved (not in trail total)	Total Trail System (linear feet)**	Trail Bridge Entry	Trail/Street Crossing	Undercrossing	New Trail Bridge	New Entry	New Trail/Street Crossing	New Undercrossing
Note: Trail segments more than 500 feet from any Creek Reach were classified as "Not on Reach."																	
So. Santa Rosa Creeks Watershed																	
ROSELAND CREEK 1								2,592		2,592	1						1
ROSELAND CREEK 2					1,251					1,251							1
ROSELAND CREEK 3		1,032		(1,293)	2,190	2,685		368	3,483	4,982		2	1		2	1	1
ROSELAND CREEK 4		7,221	5,421	(3,652)	138	2,343		1,769		11,470		8	2		2		1
COLGAN CREEK 1						3,732		956		4,688							3
COLGAN CREEK 2		3,350				2,335		2,025		7,710	3	1	1		1		
COLGAN CREEK 3	3,067							7,079		7,079			3		1	2	
COLGAN CREEK 4	372	3,092	9,703	(5,228)				3,998	3,729	11,565	5	3		1			1
IRWIN CREEK 1		2,680				1,372				4,052					1		1
NAVAL CREEK 1										0							
COUNTRYSIDE CREEK 1										0					1		
OLD COLGAN CREEK 1		26								26							
Totals	3,440	17,402	15,124	(10,173)	2,328	13,717	0	17,017	8,981	55,415	4	16	10	0	9	3	8
Todd Creek Watershed																	
TODD CREEK 1	658		15,783	(8,892)		2,014		5,236	7,697	14,142			7		1		
MOORLAND CREEK 1						300				300							1
HUNTER CREEK 1			806							806					1		
Totals	658	0	16,589	(8,892)	0	2,314	0	5,236	7,697	15,247	0	0	7	0	2	0	1
Grand Total	27,052	113,446	174,287	(36,755)	27,700	45,992	9,386	168,412	59,630	502,468	47	40	85	11	34	19	34

* Trail planned in Highway 12 Caltrans ROW

** Total Trail System = length of trails available once new, opened & improved trails are completed, and restored trails are removed.
(Sum of columns 2, 3, 5, 6, 7 & 8 minus column 4)

Table E-2: Summary Street Crossings

Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Proposed Treatment Type	Improvement Cost Estimate
Santa Rosa Creek Watershed							
Mission Blvd.	2	At Grade	Primary Arterial	4	35 mph	Use crosswalk at Mission Circle	\$ -
Mission Blvd.	2	Undercrossing	Primary Arterial	4	35 mph	Use crosswalk at Mission Circle	\$ -
Yulupa Avenue		At Grade	Local	2	25 mph	Cross at Yulupa Circle	\$ -
Farmers Lane	2	At Grade (Proposed Undercrossing)	Primary Arterial	4	35 mph	Cross at Farmers Lane	\$ -
Shortt Road	2	At Grade	Local	2	25 mph	No traffic improvements	\$ -
Montgomery Drive	2	(No Trail) (Proposed Undercrossing)	Connector	2	30 mph	III	\$ 7,000
Brookwood Avenue	2	(No Trail) (Proposed Undercrossing)	Connector	4	35 mph	VI North side, consider sight distance restrictions	\$ 86,000
A Street		Both	Local	2	25 mph	Cross at 1st Street	\$ -
Railroad Street		Both	Connector	2	30 mph	III	\$ 9,500
Third Street		Undercrossing	Connector	4	30 mph	Cross at entry to SMART Station	\$ -
Pierson Street		At Grade	Local	2	25 mph	I	\$ 6,000
N. Dutton Ave.	1	Undercrossing	Primary Arterial	4	35 mph	VI	\$ 91,000
Stony Point Road		Both (Grade Crossing North side of creek only)	Primary Arterial	4	40 mph	VI	\$ 86,000
Fulton Road	2	Both, (Undercrossing North side of creek only) (Proposed Undercrossing)	Primary Arterial	4	45 mph	VI	\$ 80,000
Willowside Road	2	At Grade	Rural	2	25 mph	II* rural roadway, high speeds	\$ 11,000
Brush Creek Watershed							
Fistor Drive	2	At Grade	Local	2	25 mph	Install crosswalk at stop control across Fistor Drive	\$ 200

Table E-2: Summary Street Crossings

Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Proposed Treatment Type	Improvement Cost Estimate
Montecito Blvd.	1	At Grade	Primary Arterial	4	35 mph	Use existing crossing	\$ -
Middle Rincon Rd.	2	At Grade	Primary Arterial	2	35 mph	IV	\$ 7,000
Rinconada Drive	2	At Grade	Connector	2	25 mph	I	\$ 10,000
Benicia Drive	2	At Grade	Local	2	25 mph	II Advanced warning for sight distance	\$ 12,000
Mission Blvd.	1	At Grade	Primary Arterial	5	35 mph	VI South side of creek	\$ 7,000
Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Proposed Treatment Type	Improvement Cost Estimate
Brush Creek Watershed (cont'd)							
Middle Rincon Rd.	1	At Grade	Primary Arterial	2	35 mph	IV	\$ 10,000
Sonoma Highway	1	Undercrossing	Highway	4	35 mph	Install crosswalk across Sonoma HWY on east side of Brush Creek	\$ 10,000
Jack London Drive	2	At Grade	Local	2	25	I	\$ 5,000
Calistoga Road	2	At Grade	Primary Arterial	3	35 mph	IV-B North side to avoid driveways and bus stop	\$ 7,000
Matanzas Creek Watershed							
Yulupa Avenue	2	At Grade	Primary Arterial	4	25 mph (school zone)	IV North side	\$ 9,500
Summerfield Road	2	At Grade	Primary Arterial	4	35 mph	Install Ped Barrier and direct users to crosswalk at Hoen Avenue	\$ 1,000
Piner Creek Watershed							
Hopper Avenue	2	At Grade	Primary Arterial	4	40 mph	V	\$ 18,500
Piner Road	2	At Grade	Primary Arterial	5	35 mph	VI	\$ 84,000
Marlow Road	1	At Grade	Primary Arterial	4	35 mph	V	\$ 12,000
W. Steele Lane	1	At Grade	Connector	2	25 mph	III West side	\$ 6,000
Marlow Road	1	At Grade	Primary Arterial	5	35 mph	Use Monroe Ped Signal	\$ -
Marlow Road	2	At Grade	Primary Arterial	5	40 mph	VI (Potential for re-direct to W. College)	\$ 86,000

Table E-2: Summary Street Crossings

Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Proposed Treatment Type	Improvement Cost Estimate
W. College Avenue	2	At Grade	Primary Arterial	3	40 mph	IV-B Locate crossing on west side	\$ 92,000
Marlow Road	1	At Grade	Primary Arterial	5	40 mph	use crosswalk at Jennings Avenue	\$ -
Guerneville Road	1	Undercrossing	Primary Arterial	4	40 mph	VI	\$ 80,000
Guerneville Road	1	At Grade	Primary Arterial	2	55 mph	High speed-crossing type to be determined by the City and County.	\$ -
Guerneville Road	2	At Grade	Primary Arterial	2	55 mph	High speed-crossing type to be determined by the City and County.	\$ -
Fulton Road	1	At Grade	Primary Arterial	5	45 mph	VI	\$ 80,000
Piner Creek Watershed (cont'd)							
Fulton Road	1	At Grade	Primary Arterial	5	25 mph school zone	Add Crosswalk north side of Piner High driveway	\$ 85,000
Paulin Creek Watershed							
Mendocino Avenue	2	At Grade	Primary Arterial	5	35 mph	Use existing crosswalk	\$ -
Apache Street	2	At Grade	Local	2	25 mph	I	\$ 10,000
Coffey Lane	1	At Grade	Primary Arterial	2	30 mph	III	\$ 9,500
Hardies Lane	2	At Grade	Local	2	25 mph	I	\$ 6,000
Range Avenue	1	At Grade	Primary Arterial	4	40 mph	VI	\$ 9,500
McBride Lane	2	At Grade	Local	2	25 mph	III (high density residential)	\$ 9,500
Southern Santa Rosa Creeks Watershed							
Burbank Avenue	2	At Grade	Connector	2	25 mph	II	\$ 11,000
Mc Minn Avenue	2	At Grade	Local	2	25 mph	I	\$ 10,000
Stony Point Road	1	At Grade	Primary Arterial	3	40 mph	IV-B South side, consider sight distance restrictions	\$ 92,000
Petaluma Hill Rd.	1	At Grade	Primary Arterial	4	40 mph	Use crosswalk at Kawana Springs	\$ -
Hearn Avenue	3	At Grade	Primary Arterial	2	30 mph	IV-B	\$ 92,000

Table E-2: Summary Street Crossings

Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Proposed Treatment Type	Improvement Cost Estimate
Dutton Meadow	1	At Grade	Connector	2	35 mph	III	\$ 7,000
Burgess Drive	1	At Grade	Local	2	25 mph school zone	III	\$ 9,500
Bellevue Avenue	1	At Grade	Primary Arterial	2	25 mph school zone	IV	\$ 7,500
Todd Creek Watershed							
Santa Rosa Avenue	2	At Grade	Primary Arterial	3	45 mph	IV-B	\$ 95,000
US 101		Proposed Undercrossing	Highway	6	65 mph	Highway Under or Overcrossing	
						Grand Total	\$ 990,700

Table E-3: Street Crossings Details

Map Ref #	Map Tile #	Creek Name	Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Traffic Volumes ADT	Roadway Width	Center Turn Lane	Median	Existing Crossing Protection	Existing Striping	Existing Signing	Sidewalks	Street Lighting	Curb Cuts	Sight Distance	Distance to Nearest X-Walk	Bus Stops	On Street Parking	Paved Landing	Bollards	Gates	Tactile Devices	Signs	Markings	Dry Season Only	ADA Compliant	Notes	Proposed Treatment Type	Improvement Cost Estimate		
Santa Rosa Creek Watershed																																			
6	Santa Rosa E	Santa Rosa Creek 2	Mission Blvd.	2	At Grade	Primary Arterial	4	35 mph	23,783	64'	Yes	Yes	Marked Crosswalk, Ped Signal	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	DSR	At Crosswalk	500' both ways	70' at Quigg Drive/Mis sion Circle	Yes, shelters, turnouts	None	Yes	None	None	At Crosswalk	No Ped Crossing, Cross at Mission Circle	None					Use crosswalk at Mission Circle	\$ -	
206	Santa Rosa E	Santa Rosa Creek 2	Mission Blvd.	2	Undercrossing	Primary Arterial	4	35 mph	23,783	64'	Yes	Yes	Marked Crosswalk, Ped Signal	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	DSR	At Crosswalk	500' both ways	70' at Quigg Drive/Mis sion Circle	Yes, shelters, turnouts	None	Yes	None	None	At Crosswalk	No Ped Crossing, Cross at Mission Circle	None					Use crosswalk at Mission Circle	\$ -	
7	Santa Rosa E	Santa Rosa Creek 2	Yulupa Avenue		At Grade	Local	2	25 mph		30'	No	No	None	Stop Bar	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USR, DSL	USR, DSR	300' west, 50' east	adjacent at corner of Yulupa Circle	None	None	Yes	None	None	Yes	Clean up after dogs	None				Cross at Yulupa Circle	\$ -		
9	Santa Rosa F	Santa Rosa Creek 3	Farmers Lane	2	At Grade (Proposed Undercrossing)	Primary Arterial	4	35 mph	37,193	68'	Yes	No	Marked Crosswalk, Ped Signal	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USR, DSL, DSR	USR, DSR	750' both ways	adjacent at corner of Farmers and SR 12	None	None	None	None	None	None	None	None	None	None	Planned Undercrossing south side of creek	Cross at Farmers Lane	\$ -		
10	Santa Rosa F	Santa Rosa Creek 3	Shortt Road	2	At Grade	Local	2	25 mph		30'	No	No	None	None	None	None	None	None	Not Applicable	1500'+	None	Yes, both sides	None	None	None	None	None	None	None	None	None	Shortt Rd. dead ends at SR Crk 3, bridge proposed across Crk	No traffic improvements	\$ -	
11	Santa Rosa G	Santa Rosa Creek 3	Montgomery Drive	2	(No Trail) (Proposed Undercrossing)	Connector	2	30 mph	8,552	28'	No	No	None	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USL, DSR	None	500' both ways	350' at Sotoyome Street	None	One side, DSR	None	None	None	None	None	None	None	None	None	Planned Undercrossing	III	\$ 7,000	
12	Santa Rosa G	Santa Rosa Creek 3	Brookwood Avenue	2	(No Trail) (Proposed Undercrossing)	Connector	4	35 mph	10,655	68'	Yes - south of stream	Yes	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	DSL, DSR	None	500' south 200' north	300' south to Sonoma Avenue	None	None	None	None	None	None	None	None	None	None	Planned Undercrossing	VI North side, consider sight distance restrictions	\$ 86,000		
26	Santa Rosa H	Santa Rosa Creek 4	A Street		Both	Local	2	25 mph		40'	No	No	None	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USL, USR, DSL	None	750' both ways	110' north at First Street	None	None	Yes	None	None	None	None	Trail Use Signs, Ped Warning Signs, Prop 12 Signs	None	No	Yes	Entry DSR are stairs, others are ramps. School crossing markings 150' south at Sonoma Blvd.	Cross at 1st Street	\$ -	
30	Santa Rosa H	Santa Rosa Creek 4	Railroad Street		Both	Connector	2	30 mph	7,620	40'	No	No	None	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USR, Pathway Entry Lighting	DSR	250' south to horizontal curve, 750' north	300' north at 3rd St. or 200' south at Hazel	Yes, DSL (shelter)	one side, DSL	Yes	Yes, DSR, USR	None	None	None	None	Trail Use Signs, Ped Warning Signs	None	No	Yes	No Access to Path USL	III	\$ 9,500
32, 33	Santa Rosa H	Santa Rosa Creek 4	Third Street		Undercrossing	Connector	4	30 mph	11,890	64'	No	Yes	None	Center Line, Bike Lanes, Railroad Markings	None	USL, USR, DSL, DSR	DSL	None	500' both ways	500' south at Pierson Street, unmarked with ped sign	None	Yes, both sides	N/A	N/A	N/A	N/A	None	None	No	Yes	SMART Tracks 250' east of crossing	Cross at entry to SMART Station	\$ -		
35	Santa Rosa H	Santa Rosa Creek 4	Pierson Street		At Grade	Local	2	25 mph		28'	No	No	Ped Warning Signs	None	*Santa Rosa Creek* Street Sign, Ped Warning Signs	USL, USR	DSR	USR, DSR	North to W. 6th 100', South 750'	North 100' to W. 6th (unmarke d)	None	Yes	Yes, USR, DSL, DSR	None	Yes, USR	Stop Sign DSR	Stop Legend and Stop Bar, DSR	None	None	None	USL, hole in fence, foot path. DSL, USGS monitoring equipment.	I	\$ 6,000		
38, 39, 40, 41	Santa Rosa I	Santa Rosa Creek 5	N. Dutton Ave.	1	Undercrossing	Primary Arterial	4	35 mph	20,440	64'	No	Yes	None	Center Line	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	None	None	150' both ways, horizontal curve limits sight distance	750' at W 8th Street	Yes, 500' south	None	N/A	N/A	N/A	N/A	None	None	None	None	Yes	Yes	Dirt footpath DSR, with one bollard	VI	\$ 91,000
42	Santa Rosa I	Santa Rosa Creek 5	Stony Point Road		Both (Grade Crossing North side of creek only)	Primary Arterial	4	40 mph	28,438	68'	No	No	None	Center Line, Bike Lanes	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	DSL, DSR	USR, DSR	250' North, 300' South	550' South to Glenbroo k Dr., 750' North to W. Ninth	None	Yes, both sides, south of bridge	Yes	Yes, USL, USR, DSL, DSR	None	None	None	Crossing at Glenbrook Dr., Crossing at W. Ninth, Caution Subject to Flooding, Creek Trail Info, ADA Access	Stop Legend USR	Yes	Yes		VI	\$ 86,000	
49	Santa Rosa L	Santa Rosa Creek 6	Fulton Road	2	Both, (Undercrossing North side of creek only) (Proposed Undercrossing)	Primary Arterial	4	45 mph	26,238	68'	No	Yes	None	Center Line, Bike Lanes	*Santa Rosa Creek* Street Sign	USL, USR, DSL, DSR	USL	USR, DSR	300' both ways, vegetation blocks sight distance	675' North, Marked crosswalk at Chatham Dr.	675' North, Marked crosswalk at Chatham Dr.	None	None	USR, DSL, DSR	USL, DSL, DSR	None	None	DSL, DSR (Cross at College Ave.)	DSR, Stop Legend and Stop Bar	Yes	Yes		VI	\$ 80,000	
50	Santa Rosa N	Santa Rosa Creek 7	Willowside Road	2	At Grade	Rural	2	25 mph		22' Bridge 30'	No	No	None	Center Line	None	None	None	At Grade	750' both ways	N/A	None	Yes, both sides	None	Yes, USL, DSL, DSR	None	None	None	None	None	None	Local signs "protect creek"	II* rural roadway, high speeds	\$ 11,000		
Brush Creek Watershed																																			

Table E-3: Street Crossings Details

Map Ref #	Map Tile #	Creek Name	Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Traffic Volumes ADT	Roadway Width	Center Turn Lane	Median	Existing Crossing Protection	Existing Striping	Existing Signing	Sidewalks	Street Lighting	Curb Cuts	Sight Distance	Distance to Nearest X-Walk	Bus Stops	On Street Parking	Paved Landing	Bollards	Gates	Tactile Devices	Signs	Markings	Dry Season Only	ADA Compliant	Notes	Proposed Treatment Type	Improvement Cost Estimate	
52	Brush B	Rincon Creek 1	Fistor Drive	2	At Grade	Local	2	25 mph		36'	No	No	None	Center Line	Advisory Speed Sign	None	None	USR, DSR	750' east 30' west to intersection	30' at intersecti on with Brush Creek	None	Yes, both sides	Yes	None	None	None	None	None	None	None	None	Soft pathway on east side of Brush Creek Road crosses Fistor, creek on west side of Brush Creek Rd.	Install crosswalk at stop control across Fistor Drive	\$ 200
54	Brush C	Brush Creek 1	Montecito Blvd.	1	At Grade	Primary Arterial	4	35 mph	20,392	64'	Yes	No	None	Center Line Lane Markings	None	USR, USR, DSL, DSR	DSR	USR, DSL, DSR	250' both directions	175' east at Mission Blvd.	None	None	Yes DSR	None	Yes DSR, DSL	Yes, sidewalk corner USR	Stop Sign DSR	Stop Bar and Legend DSR				Trail only douth of road.	Use existng crossing	\$ -
55	Brush C	Ducker Creek 1	Middle Rincon Rd.	2	At Grade	Primary Arterial	2	35 mph	6,180	39'	No	No	None	Center Line	None	USR, USR, DSL, DSR	USR	USL, DSL	500' both ways	500' north at Montecito	None	Yes, one side, downstrea m	None	None	Yes, DSL	None	None	None				Path is located DSL, 100' south of bridge (USL)	IV	\$ 7,000
56	Brush C	Ducker Creek 1	Rinconada Drive	2	At Grade	Connector	2	25 mph		24'	No	No	None	Center Line Edge Line Parallel Ped Path	None	Shoulder Upstream AC Berm & Shoulder Downstream	DSL	at grade				None	None	None	Yes, USR, DSR	None	None	None				I	\$ 10,000	
57	Brush C	Ducker Creek 1	Benicia Drive	2	At Grade	Local	2	25 mph		24'	No	No	None	Edge Line Parallel Ped Path	None	AC Berm AC shoulder Upstream	DSL	at grade	500' north 300' south	125' north at Riconada (marked)	None	Yes, one side, downstrea m	None	None	Yes, USR, DSL	None	None	None				II Advanced warning for sight distance	\$ 12,000	
62	Brush D	Austin Creek 2	Mission Blvd.	1	At Grade	Primary Arterial	5	35 mph	23,307	64'	Yes	No	None	Center Line Lane Markings	None	USR, USR, DSL, DSR	None	USL, USR, DSL, DSR	500' DSR view limited by landscapin g 50'	200' south at Sherbroo k Dr.	Yes, 200' south at Sherbroo k Dr.	None	None	None	None	Yes DSR, DSL, USR, USL	None	None	None			Undeveloped path USL	VI South side of creek	\$ 7,000
72	Brush D	Austin Creek 2	Middle Rincon Rd.	1	At Grade	Primary Arterial	2	35 mph	7,695	41'	No	No	None	Center Line	None	USR, USR, DSL, DSR	USR	DSR	500' both ways	750' south at HWY 12	None	None	None	None	N	None	None	None			Trails downstream only, undeveloped	IV	\$ 10,000	
79	Brush E	Brush Creek 2	Sonoma Highway	1	Undercrossing	Highway	4	35 mph		84'	No	Yes	None	center line edge lines	None	USL, USR	USR, DSR	DSR At Grade DSR, USL	>500 East 50 to intersectio n Brush Creek Rd. West		None	One side DSL	Yes DSR	Yes USR	Yes DSL, USL, DSR	None	None	None	Yes	?	Install Crosswalk across HWY at Brush Creek Road	Install crosswalk across Sonoma HWY on east side of Brush Creek	\$ 10,000	
71	Brush I	Austin Creek 2	Jack London Drive	2	At Grade	Local	2	25		36'	No	No	None	Center Line	None	USL, USR, DSL, DSR	None	USL, DSL	320' south 175' north	more than 750'	None	Yes, both sides	Yes	None	Yes	None	None	None				I	\$ 5,000	
84	Brush I	Austin Creek 2	Calistoga Road	2	At Grade	Primary Arterial	3	35 mph	14,417	64'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSR	DSL	USL, USR	500' both ways	200' north at Marit Drive (marked crosswalk)	Yes, USR, DSL	Yes, one side, downstrea m	None	None	None	None	None	None			No existing trails	IV-B North side to avoid driveways and bus stop	\$ 7,000	
Matanzas Creek Watershed																																		
88	Matanzas C	Spring Creek 2	Yulupa Avenue	2	At Grade	Primary Arterial	4	25 mph (school zone)	13,935	64'	No	No	None	Center Line Lane Markings	*Spring Creek* Street Sign	USL, USR, DSL, DSR	None	DSR	750' both ways	300' north at school, enhanced crossing	Yes, USL	Yes, both sides	None	None	Yes, USR, DSR	None	None	None				IV North side	\$ 9,500	
95	Matanzas F	Spring Creek 2	Summerfield Road	2	At Grade	Primary Arterial	4	35 mph	15,472	130'	No	Yes	None	Center Line Bike Lanes	No Parking	USL, USR	None	USR	750' both ways	175' at Hoen Ave.	Yes	No	Yes	Yes	No	None	None	None				Install Ped Barrier and direct users to crosswalk at Hoen Avenue	\$ 1,000	
Piner Creek Watershed																																		
102	Piner B	Piner Creek 2	Hopper Avenue	2	At Grade	Primary Arterial	4	40 mph	11,723	60'	Yes, transitio ning	No	None	Center Line Lane Markings	Bus Stop, No Parking, Street Signs	USL, USR, DSL, DSR	None	At Grade USL	750' both ways	300' west at Skyview, not marked	Yes, DSL	None	None	None	Yes	None	No Tresspass ing	None				V	\$ 18,500	
105	Piner C	Piner Creek 2	Piner Road	2	At Grade	Primary Arterial	5	35 mph	24,811	64'	Yes	No	None	Lane Markings	None	USL, USR, DSL, DSR	DSL	USL, DSL, DSR	750' West 500' East	490' at Coffey Lane	None	DSL	None	None	Yes, DSL	None	None	None				VI	\$ 84,000	
111	Piner D	Piner Creek 3	Marlow Road	1	At Grade	Primary Arterial	4	35 mph	16,957	70'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	USR, DSL	USR, DSL, DSR	250' South 750' North	560' South @ W. Steele Ln.	None	None	Yes USR, DSR, DSL	None	Yes USR, DSR, DSL	None	None	None				V	\$ 12,000	
150	Piner D	Paulin Creek 5	W. Steele Lane	1	At Grade	Connector	2	25 mph	8,537	34'	No	No	None	Center Line	None	USL, USR, DSL, DSR	DSL	USR, DSL, DSR	500' both ways	220' at Communit y Park Driveway	None	None	Yes, USR	None	Yes, USR, DSL, DSR	None	None	None			No Trail USL, Paved Community Park trail parallels gravel creek trail	III West side	\$ 6,000	
153	Piner D	Paulin Creek 5	Marlow Road	1	At Grade	Primary Arterial	5	35 mph	17,973	70'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	USR, DSR	USL, USR, DSL, DSR	200' both directions	150' south at Monroe School (marked ped signal)	None	None	Yes DSR, DSL, USR	None	Yes DSR, DSL, USR, USL	None	None	None			DSR sight distance obstructed by utility pole	Use Monroe Ped Signal VI	\$ -	
46	Piner E	College Creek 1	Marlow Road	2	At Grade	Primary Arterial	5	40 mph	20,804	66'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	DSL	USR, DSR	750' both ways	160' south at College	None	None	None	None	Yes, USR, DSR	None	None	None			(Potential for re-direct to W. College)	VI	\$ 86,000	

Table E-3: Street Crossings Details

Map Ref #	Map Tile #	Creek Name	Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Traffic Volumes ADT	Roadway Width	Center Turn Lane	Median	Existing Crossing Protection	Existing Striping	Existing Signing	Sidewalks	Street Lighting	Curb Cuts	Sight Distance	Distance to Nearest X-Walk	Bus Stops	On Street Parking	Paved Landing	Bollards	Gates	Tactile Devices	Signs	Markings	Dry Season Only	ADA Compliant	Notes	Proposed Treatment Type	Improvement Cost Estimate
47	Piner E	College Creek 1	W. College Avenue	2	At Grade	Primary Arterial	3	40 mph	12,598	64'	No	Yes, at grade	None	Center Line, Bike Lanes	None	DSL, DSR	DSR	DSR, upstream at grade	500' both ways	350' east at the westside transit station	Yes, one side (upstream)	None	None	Yes, USL	None	None	None				IV-B Locate crossing on west side	\$ 92,000	
117	Piner E	Steele Creek 1	Marlow Road	1	At Grade	Primary Arterial	5	40 mph	20,804	82'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	DSR	USL, USR, DSL, DSR	750' both ways	100' south at Jennings Ave. marked ped signal	None	None	Yes, USL	None	Yes, USL	None	None	None			use crosswalk at Jennings Avenue	\$ -	
115	Piner E	Piner Creek 3	Guerneville Road	1	Undercrossing	Primary Arterial	4	40 mph	17,963	74'	No	Yes	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	USL, USR, DSL	USL, USR, DSL, DSR	500' both ways	500' east at Gamay Street	None	None	Yes, USL, USR, DSL, DSR	None	Yes, USL, USR, DSR	None	None	None		Proposed Undercrossing	VI	\$ 80,000	
124	Piner F	Forestview Creek 1	Guerneville Road	1	At Grade	Primary Arterial	2	55 mph	14,995	38'	No	No	None	center line edge lines	None	None	None	None - At Grade	500' both ways	>750'	None	One side Upstream	None	Yes USL	Yes DSL	None	None	None			High speed-crossing type to be determined by the City and County.	\$ -	
123	Piner F	Peterson Creek 1	Guerneville Road	2	At Grade	Primary Arterial	2	55 mph	14,995	38'	No	No	None	center line edge lines	None	None	None	None - At Grade	>500' both ways	>750'	None	One side Upstream	None	None	USR, DSR	None	None	None			Trail only USR, DSR	\$ -	
119	Piner F	Piner Creek 3	Fulton Road	1	At Grade	Primary Arterial	5	45 mph	24,166	73'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	USL	USL, USR, DSL	500' both ways	750' south at Colege Avenue	Yes, USR, DSL	None	Yes, DSL, USR, USL	None	Yes, USL, USR, DSL, DSR	None	None	None			VI	\$ 80,000	
125	Piner G	Peterson Creek 1	Fulton Road	1	At Grade	Primary Arterial	5	25 mph school zone	22,339	64'	Yes	No	None	Center Line Bike Lanes	None	None	None	At Grade DSL	>750 both ways	100' south at Piner HS unmarked	None	None	None	None	Yes DSL	None	None	None			Path only DSL, Creek Fenced by school up stream	Add Crosswalk north side of Piner High driveway	\$ 85,000
Paulin Creek Watershed																																	
139	Paulin D	Paulin Creek 4	Mendocino Avenue	2	At Grade	Primary Arterial	5	35 mph	24,406	71'	Yes	Yes	Marked Crosswalk, Ped Signal	Center Line Lane Markings	None	USL, USR, DSL, DSR	USR, DSR	USR, DSR	750' both ways	Adjacent, at Chanate	Yes, USR	None	None	None	None	Yes, at crosswalk	None	None			Trail only exists DSR along Administration Drive	Use existing crosswalk	\$ -
149	Paulin E	Paulin Creek 5	Apache Street	2	At Grade	Local	2	25 mph		38'	No	No	None	None	None	USL, USR, DSL, DSR	None	None	500' south 120' north to intersection	120' north at Mohawk Ct. striped crosswalk	None	Yes, both sides	None	None	Yes, USR, DSR	None	None	None			Trail north side of creek only	I	\$ 10,000
146	Paulin E	Paulin Creek 5	Coffey Lane	1	At Grade	Primary Arterial	2	30 mph	7,289	42'	No	No	None	Center Line	None	USL, USR, DSL, DSR	USR	USL - at grade	500' both ways		Yes, DSL	One side, up stream	None	None	Yes, DSL	None	None	None			Trail USL only	III	\$ 9,500
143	Paulin E	Paulin Creek 5	Hardies Lane	2	At Grade	Local	2	25 mph	1,642	39'	No	No	None	Center Line	None	USL, USR, DSL, DSR	DSR	USR, DSL	500' both ways	200' north at Terry Road	None	Yes, both sides	None	None	Yes, USR, DSL	None	None	None			Trail USR, DSL only	I	\$ 6,000
142	Paulin E	Paulin Creek 5	Range Avenue	1	At Grade	Primary Arterial	4	40 mph	9,965	52'	No	No	None	Center Line Lane Markings	None	USL, USR, DSL, DSR	DSL	USR, DSR	500' both ways (trim trees)	1000'	Yes, USL	None	None	No	Yes, USR, DSR	None	None	None			VI	\$ 9,500	
141	Paulin E	Paulin Creek 5	McBride Lane	2	At Grade	Local	2	25 mph		39'	No	No	None	Center Line	None	USL, USR, DSL, DSR	None	DSR	500' both ways from edge of parking	750' + north	None	Yes, both sides	None	None	None	None	None	None			Trail DSR only	III (high density residential)	\$ 9,500
Southern Santa Rosa Creeks Watershed																																	
157	Southern A	Roseland Creek 3	Burbank Avenue	2	At Grade	Connector	2	25 mph		25'	No	No	None	Center Line	None	None	None	None	750' both ways	1000' north at Sebastopol Road	None	Yes, one side (downstream)	None	None	None	None	None	None			No existing trails	II	\$ 11,000
156	Southern A	Roseland Creek 1	Mc Minn Avenue	2	At Grade	Local	2	25 mph		35'	No	No	None	None	None	USL, USR, DSL, DSR	None	None	200' North, 750' South	1000' north at Sebastopol Road	None	Yes, both sides	None	None	None	None	None	None			No existing trails	I	\$ 10,000
161	Southern B	Roseland Creek 3	Stony Point Road	1	At Grade	Primary Arterial	3	40 mph	24,141		Yes - north of stream	Yes - south of stream	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	DSL, DSR	DSL, DSR	100' both ways (restricted by horizontal curve)	200' north at Northpoint Parkway, unmarked	Yes, DSL (turnout)	None	Yes, DSL, DSR	None	Yes, DSL, DSR	None	None	None			DSL Trail opens where new right lane begins - limits sight distance left, upstream side undeveloped	IV-B South side, consider sight distance restrictions	\$ 92,000
178	Southern E	Colgan Creek 1	Petaluma Hill Rd.	1	At Grade	Primary Arterial	4	40 mph	21,027	72'	Yes	No	None	Center Line Bike Lanes	None	USL, USR, DSL, DSR	USL, DSR	DSL	250' South 500' North	150' at Kawana Springs	Yes, USL, DSL - Turnouts	None	Yes, DSL	None	Yes	None	None			Trail only DSL	Use crosswalk at Kawana Springs	\$ -	
183	Southern F	Colgan Creek 3	Hearn Avenue	3	At Grade	Primary Arterial	2	30 mph	21,244	62'	No	No	None	center line edge lines	RR Xing	USR, DSL	None	USR	750' both ways	580' east at Dowd Dr.	Yes	None	Yes, USL	None	Yes, USL, DSL	None	No Trespassing	None			Adjacent to RR Crossing, Bike Lanes extend west from Dutton	IV-B	\$ 92,000
191	Southern G	Colgan Creek 4	Dutton Meadow	1	At Grade	Connector	2	35 mph		28'	No	No	None	center line edge lines	None	DSL, DSR	USL, USR	At Grade	100' south to intersection, 750' North	Stop sign at Bellevue adjacent to creek	Yes DSL	None	Yes, DSL, USL	Yes, DSL, DSR	Yes	None	"Walkway Access" DSR	None				III	\$ 7,000
192	Southern G	Colgan Creek 4	Burgess Drive	1	At Grade	Local	2	25 mph school zone		28'	No	No	None	None	"Walkway Access"	DSL, DSR	DSL	USL, DSL, DSR	750' North, 75' South to intersection	75' Marked crosswalk	Yes, DSL on Bellevue (turnout)	None	Yes, DSL, DSR, USL	No, removed from sleeves	Yes, USR	None	"Walkway Access" USR	None			Sleeve for Removable Bollards extend above grade, tripping hazard	III	\$ 9,500

Table E-3: Street Crossings Details

Map Ref #	Map Tile #	Creek Name	Street Name	Priority	At Grade/ Undercrossing	Roadway Functional Classification	# of Lanes	Posted Speed	Traffic Volumes ADT	Roadway Width	Center Turn Lane	Median	Existing Crossing Protection	Existing Striping	Existing Signing	Sidewalks	Street Lighting	Curb Cuts	Sight Distance	Distance to Nearest X-Walk	Bus Stops	On Street Parking	Paved Landing	Bollards	Gates	Tactile Devices	Signs	Markings	Dry Season Only	ADA Compliant	Notes	Proposed Treatment Type	Improvement Cost Estimate
193	Southern G	Colgan Creek 4	Bellevue Avenue	1	At Grade	Primary Arterial	2	25 mph school zone	5,447	60'	Yes	No	None	center line edge lines	None	USL, USR, DSL, DSR	USL, USR	USR, Grade- DSR, DSL	At 750' both ways	500' east at Burgess	None	None	Yes, DSL, DSR, USL, USR	Yes, DSL, USR	Yes, DSR	None	"Colgan Creek Trail" "Stop" DSL	Stop Legend, Stop Bar, DSL				IV	\$ 7,500
Todd Creek Watershed																																	
199	Todd D	Todd Creek 1	Santa Rosa Avenue	2	At Grade	Primary Arterial	3	45 mph	19,312	42'	Yes	No	None	Lane Markings		None		At Grade														IV-B	\$ 95,000
200	Todd D	Todd Creek 1	US 101		Proposed Undercrossing	Highway	6	65 mph																							Highway Under or Overcrossing		
																											Grand Total	\$ 990,700					

Blue denotes undercrossing
 Crossing Type I: Local Roadway (2 Lane, Less than 5,000 ADT, Slow Speeds)
 Crossing Type II: Collector/Transitional Roadway (2 Lane, Less than 7,500 ADT, Slow Speeds)
 Crossing Type III: Collector/Transitional Roadway (2 Lane, Less than 7,500 ADT, Moderate Speeds)
 Crossing Type IV: Collector/Transitional Roadway (2 Lane, Less than 7,500 ADT, Higher Speeds)
 Crossing Type IV-B: Collector/Transitional Roadway (3 Lane, More than 7,500 ADT, Higher Speeds)
 Crossing Type V: Regional Roadway (4 or More Lane, More than 10,000 ADT, Moderate Speeds)
 Crossing Type VI: Regional Roadway (4 or More Lane, More than 10,000 ADT, Higher Speeds)

Table E-4: Trail Entry Points

Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
USL = Up Stream Left **USR** = Up Stream Right

Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
SANTA ROSA CREEK WATERSHED						
SANTA ROSA CREEK 1						
1	Cross Street MONTGOMERY DR	USR				
		DSR	stairs to trail bridge			
		USL				
		DSL				
2	5433-5438 Spring Lake Ct	L	bollards	CSR	access from Spring Lake Ct to City open space parcel	
		R				
SANTA ROSA CREEK 2						
4	Cross Street MONTGOMERY DR	USR				
		DSR				
		USL		priv. & SCWA		
		DSL				
6	Cross Street MISSION BLVD	USR	> 6 foot open entry	CSR	barrier between street sidewalk and street w/directions to crosswalk	
		DSR	> 6 foot open entry	priv. & CSR path	barrier between street sidewalk and street w/directions to crosswalk	
		USL	no access point	priv.		
		DSL	no access point	priv.		
206	Cross Street MISSION BLVD	USR	undercrossing			
		DSR	undercrossing			
		USL	undercrossing			
		DSL	undercrossing			
7	Cross Street YULUPA AVE	USR	> 6 foot open entry for Class 1 path; undercrossing for soft path w/steep connection from Yulupa	CSR		
		DSR	> 6 foot open entry for Class 1 path; undercrossing for soft path w/steep connection from Yulupa	CSR		
		USL	no access point	CSR		
		DSL	no access point	CSR		
5	QUIGG DR	L				
		R	open entry access to trail along Quigg Drive	priv. w/CSR path		
8	YULUPA CIR	L				
		R	bollards	CSR		
SANTA ROSA CREEK 3						
9	Cross Street FARMERS LN	USR	< 6 foot open entry; stairs	CSR		
		DSR	no access	priv.		
		USL	no access point	undercrossing	priv.	SRCMP calls for undercrossing on right bank. CCMP will put undercrossing on left bank.
		DSL	no access	undercrossing	priv.	see above
11	Cross Street MONTGOMERY DR	USR	informal path, < 6 foot open entry	undercrossing on either right or left bank	priv.	SRCMP calls for undercrossing on either bank of the creek
		DSR	no access	undercrossing	priv.	
		USL	no access	undercrossing	priv.	
		DSL	no access	undercrossing	priv.	
12	Cross Street BROOKWOOD AVE	USR	no access	undercrossing on either right or left bank	CSR	SRCMP calls for undercrossing on either bank of the creek
		DSR	no access	undercrossing	CSR	
		USL	no access	undercrossing	CSR	
		DSL	no access	undercrossing	CSR	
10	100 SHORTT RD	L	no access	priv.	potential access point	
		R				
SANTA ROSA CREEK 4						
13	Cross Street E St bridge	USR	no access	SCWA	potential access at either USR or USL per SRCMP	
		DSR		Federal		
		USL	chainlink gate w/walkaround	SCWA		
		DSL		Federal		
25	Cross Street SANTA ROSA AVE	USR		CSR		
		DSR	bollards	SCWA/ CSR		
		USL		CSR		
		DSL		access via Gateway Park	SCWA/ CSR	

Table E-4: Trail Entry Points

Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
USL = Up Stream Left **USR** = Up Stream Right

Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
26	S A ST	USR	bollards at top of ramp, undercrossing	SCWA/ CSR		
		DSR	< 6 foot open entry to stairs; undercrossing	SCWA/ CSR	stairway to PMG	
		USL	< 6 foot open entry	SCWA/ CSR		
		DSL	< 6 foot open entry	SCWA/ CSR		
28	HWY 101	USR		SCWA/ CSR/ Caltrans		
		DSR		SCWA/ CSR/ Caltrans		
		USL	Overpass of Hwy 101	undercrossing	SCWA/ CSR/ Caltrans	
		DSL	Overpass of Hwy 101	undercrossing	SCWA/ CSR/ Caltrans	
29	HWY 101	USR	undercrossing, with no access from highway	SCWA/ CSR/ Caltrans		
		DSR	undercrossing, with no access from highway	SCWA/ CSR/ Caltrans		
		USL		SCWA/ CSR/ Caltrans		
		DSL		SCWA/ CSR/ Caltrans		
30	RAILROAD ST	USR	bollards; ramp; undercrossing	SCWA/ CSR		
		DSR	bollards; ramp; undercrossing	SCWA/ CSR		
		USL	< 6 foot open entry	SCWA/ CSR		
		DSL	fence - no access	SCWA		
31	RAILROAD TRACKS	USR	undercrossing	SCWA/ CSR/ SMART		
		DSR	undercrossing, ramp to Joe Rodota Trail	SCWA/ CSR/ SMART		
		USL		SCWA/ SMART		
		DSL		SCWA/ SMART		
32	W 3RD ST	USR	fence - no access; undercrossing	SCWA/ CSR		
		DSR	fence - no access; undercrossing;	stairway access to be installed with current property development	SCWA/ CSR	
		USL	fence - no access	SCWA		
		DSL	fence - no access	SCWA		
35	PIERSON ST	USR	bollards	SCWA/ CSR		
		DSR	bollards; steep connection	SCWA/ CSR		
		USL	fence - no access	SCWA	fence is always broken	
		DSL	bollards; steep connection	SCWA		
27	SONOMA AVE	L	<6 foot open entry	SCWA/ CSR		
		R				
33	CANNERY/W 3RD ST	L				
		R		stairway access to be installed with current property development	priv. stairway access to be installed with current property development	
34	RR SQUARE WATER TOWER	L				
		R		Access with development	priv.	
SANTA ROSA CREEK 5						
38	N DUTTON AVE	USR	fence - no access; undercrossing	access from Dutton Av	SCWA/ CSR	
		DSR	< 6 foot open entry informal access; undercrossing		SCWA/ CSR	
		USL			SCWA/ CSR	
		DSL		access from Dutton Av	SCWA/ CSR	
40	N DUTTON AVE	USR			SCWA/ CSR	
		DSR			SCWA/ CSR	
		USL	fence - no access; undercrossing		SCWA/ CSR	
		DSL	informal access < 6 foot and undercrossing	access from Dutton Av	SCWA/ CSR	
42	STONY POINT RD	USR	bollards; undercrossing		SCWA/ CSR	
		DSR	bollards; undercrossing		SCWA/ CSR	
		USL	bollards		SCWA	
		DSL	bollards		SCWA	

Table E-4: Trail Entry Points

Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
USL = Up Stream Left **USR** = Up Stream Right

Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments
36	W 6TH ST	L			
		R	no access	ramp or stairs	SCWA/ CSR
37	N DUTTON AVE	L			
		R	no access	ramp	SCWA/ CSR
39	N DUTTON AVE	L			
		R	informal access, < 6 foot open entry	access from Dutton Av	SCWA/ CSR
41	N DUTTON AVE	L	informal access, <6 foot open entry	access from Dutton Av	SCWA/ CSR
		R			SCWA/ CSR
207	HEATHER DR	?????	access from Heather Dr.	SCWA/ CSR	
SANTA ROSA CREEK 6					
49	Cross Street FULTON RD	USR	bollards; undercrossing; ramp		SCWA/ CSR
		DSR	bollards; undercrossing; ramp		SCWA/ CSR
		USL	bollards		SCWA
		DSL	bollards; steeper ramp		SCWA
43	MALIBU CIR	L	< 6 foot entry		SCWA/ CSR
		R			
SANTA ROSA CREEK 8					
50	Cross Street WILLOWSIDE RD	USR	bollards		SCWA
		DSR	steper gate	replace gate w/bollards	SCWA
		USL	bollards		SCWA
		DSL	steper gate	replace gate w/bollards	SCWA
COLLEGE CREEK 1					
45	Cross Street RIDLEY AVE	USR			priv.
		DSR			priv.
		USL			priv.
		DSL			priv.
46	Cross Street MARLOW RD	USR	fence - no access		SCWA
		DSR	fence - no access		SCWA
		USL	closed chain link gate	replace gate w/bollards when trail opens to Ridley Ave.	SCWA
		DSL	closed chain link gate	replace gate w/bollards	SCWA
47	Cross Street W COLLEGE AVE	USR	fence - no access		SCWA
		DSR	fence no access		SCWA
		USL	closed chain link gate	replace gate w/bollards	SCWA
		DSL	fence - no access		SCWA
48	Water Agency driveway	L			
		R	< 6 foot open entry		SCWA
44	access from private park @ NW corner of College Ck x SR Ck	L			
		R	< 6 foot open entry		priv.
SKYHAWK CREEK 1					
3	Cross Street MELITA RD	USR	no access point		
		DSR			priv.
		USL	open sidewalk		
		DSL			priv.
18	Cross Street MOUNTAIN HAWK DR	USR	bollards		CSR
		DSR	bollards		CSR
		USL	no trail		CSR
		DSL	no trail		CSR
19	Cross Street GREAT HERON DR	USR	> 6 foot open entry		CSR
		DSR	> 6 foot open entry		CSR
		USL			CSR
		DSL			CSR
20	Cross Street MOUNTAIN HAWK DR	USR	> 6 foot open entry		CSR
		DSR	bollards		CSR
		USL	> 6 foot open entry to fire road		CSR
		DSL			CSR
14	Sunhawk PI	L			
		R		> 6 foot open entry	CSR
15	Grayhawk PI	L			
		R		> 6 foot open entry	CSR

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Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
16	Mystic Point Pl	L				
		R	> 6 foot open entry	CSR		
17	1569-1570 Lofty Perch Pl	L				
		R	> 6 foot open entry	CSR		
OAKMONT CREEK						
21	Cross Street WHITE OAK DR	USR	> 6 foot open entry entry		priv.	
		DSR	> 6 foot entry		priv.	
		USL				
		DSL				
22	Cross Street TIMBER SPRINGS DR/SE XING	USR				
		DSR				
		USL	> 6 foot open entry		priv.	
		DSL				
23	Cross Street TIMBER SPRINGS DR/NW END	USR				
		DSR				
		USL	>6 foot open entry from parking lot to trail		priv.	
		DSL				
BRUSH CREEK WATERSHED						
BRUSH CREEK 2						
54	Cross Street MONTECITO BLVD	USR	fence - no access		SCWA	
		DSR	stepover gate w/walkaround		SCWA/ CSR	
		USL	fence - no access		SCWA	
		DSL	stepover gate w/walkaround		SCWA/ CSR	
79	Cross Street SONOMA HWY	USR	bollards; undercrossing; ramp		SCWA/ CSR	
		DSR	stepover gate; undercrossing; ramp	replace gate w/bollards	SCWA/ CSR	a unique gate to be replaced w/bollard
		USL	stepover gate ; ramp	replace gate w/bollards	SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
60	1322 SHADYOAK PL	L				
		R	walkaround		CSR/ priv.	
61	MISSION BLVD/N OF CULEBRA	L	walkaround		CSR/ priv.	
		R				
64	SHERBROOK DR	L				
		R	< 6 foot open entry		CSR	
65	PRIVATE	L				
		R		proposed entry	priv.	
76	734-736 ADOBE DR	L				
		R	< 6 foot open entry		priv.	
77	502-504 JENIFER CT	L				
		R	< 6 foot open entry & walkaround		CSR	
78	100 BRUSH CREEK RD	L				
		R	bollards		priv./ SCWA/ CSR	access thru private parking lot
BRUSH CREEK 3						
80	4227 FLAT ROCK CIR	L	bollards		SCWA/ CSR	
		R				
81	182 YULUPA CIR	L				
		R	bollards		SCWA/ CSR	
RINCON CREEK 1						
51	Cross Street DEER TRAIL RD/WALLACE RD	USR				
		DSR				
		USL		proposed soft path	priv.	
		DSL				
52	Cross Street FISTOR DR	USR				
		DSR				
		USL				
		DSL				
DUCKER CREEK 2						
55	Cross Street MIDDLE RINCON RD	USR			priv.	
		DSR			priv.	
		USL			priv.	
		DSL	closed chain link gate	replace gate w/bollards	SCWA	

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Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
56	Cross Street RINCONADA DR	USR	closed chain link gate	replace gate w/bollards	SCWA	
		DSR	closed chain link gate	replace gate w/bollards	SCWA	
		USL	fence- no trail		SCWA	
		DSL	fence- no trail		SCWA	
57	Cross Street BENICIA DR	USR	closed chain link gate	replace gate w/bollards	SCWA	
		DSR	fence- no trail		SCWA	
		USL	fence-no trail		SCWA	
		DSL	closed chain link gate	replace gate w/bollards	SCWA	
66	Cross Street CULEBRA AV	USR	fence - no trail		SCWA	
		DSR	> 6 foot open entry		SCWA	guardrail with walkaround
		USL	closed chain link gate	replace gate w/bollards	SCWA	
		DSL			SCWA & priv.	
67	CULEBRA AV	L				
		R	< 6 foot open entry		SCWA	
AUSTIN CREEK 1						
82	Cross Street SAN RAMON WAY	USR	no access point		priv.	
		DSR	no access point		priv.	
		USL	no access point		CSR	
		DSL	no access point	proposed soft trail	CSR	
83	Cross Street ST FRANCIS RD	USR	no access point		priv.	
		DSR	no access point		CSR	
		USL	no access point	propsoed soft trail	priv.	
		DSL	no access point		CSR	
AUSTIN CREEK 2						
62	Cross Street MISSION BLVD	USR	stepover gate w/walkaround	replace gate w/bollards	SCWA	
		DSR	stepover gate w/walkaround	replace gate w/bollards	SCWA	
		USL	< 6 foot open entry		SCWA	
		DSL	stepover gate w/walkaround	replace gate w/bollards	SCWA	
68	Cross Street ACACIA LN	USR	fence - no access		SCWA	
		DSR	> 6 foot open entry		SCWA	access to open area at confluence w/Ducker Creek
		USL	> 6 foot open entry		SCWA	chain link gate - w/pedestrian walkaround is 240' upstream of Acacia Lane
		DSL	fence - no access		SCWA	
69	Cross Street ACACIA LN	USR				
		DSR				
		USL				
		DSL	guardrail		CSR	not a creek crossing
71	Cross Street JACK LONDON DR	USR	closed chain link gate	replace gate w/bollards	SCWA	replace when service road is opened
		DSR	closed chain link gate	replace gate w/bollards	SCWA	replace when service road is opened
		USL	fence - no access		SCWA	no trail
		DSL	fence - no access		SCWA	no trail
72	Cross Street MIDDLE RINCON RD	USR	closed chain link gate	replace gate w/bollards when service road is opened	priv.	
		DSR	fence - no access		SCWA	no trail
		USL	fence - no access		SCWA	no trail
		DSL	closed chain link gate and <6 foot open entry to soft trail		priv.	chainlink gate is on private property w/ SCWA easement,
84	Cross Street CALISTOGA RD	USR	no access point		priv.	
		DSR	> 6 foot open entry		CSR	
		USL	no access point		priv.	
		DSL	no access point		CSR	
85	Cross Street BOAS DR	USR	bollards		CSR	
		DSR			priv.	
		USL	no access point		CSR	
		DSL			priv.	
59	PROSPECT AVE	L	< 6 foot entry to soft path		SCWA	
		R				
70	PROSPECT AVE	L			SCWA & CSR	
		R				
73	PROSPECT AVE	L	> 6 foot open entry		SCWA & priv	
		R				

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Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
74	BENICIA DR	L				
		R	> 6 foot open entry		SCWA	
75	PROSPECT AVE	L	Stepover gate w/walkaround		SCWA	
		R				
AUSTIN CREEK 3						
86	Cross Street OAK LAKE AVE	USR	bollards		CSR	
		DSR	> 6 foot open entry		CSR	
		USL	> 6 foot open entry		CSR	
		DSL	> 6 foot opening		CSR	
58	926-930 JACK LONDON DR	L	< 6 foot open entry		existing access to Tanglewood Park (Creek is underground)	
		R				
MATANZAS CREEK WATERSHED						
MATANZAS CREEK 3						
204	Cross Street FRANQUETTE AVE @ CALTRANS ROW	USR			Caltrans	
		DSR			Caltrans	
		USL			Caltrans	
		DSL			Caltrans	
SPRING CREEK 2						
88	Cross Street (name) YULUPA AVE	USR	chain gate w/walkaround		school	
		DSR			priv.	
		USL	no access point			school and private
		DSL			priv.	
90	Cross Street FERNGLEN DR	USR			CSR	
		DSR			CSR	
		USL	>6 foot entry to soft trail		CSR	
		DSL	>6 foot entry to soft trail		CSR	
95	Cross Street SUMMERFIELD RD	USR			priv.	
		DSR			Caltrans	
		USL			priv.	
		DSL			Caltrans	
96	HOEN AVE	L			priv.	
		R			proposed access to Caltrans ROW	
SPRING CREEK 3						
89	Cross Street HAHMAN DR/ROCK CREEK DR	USR				
		DSR				
		USL			school	
		DSL			Montgomery HS	
ARROYO SIERRA CREEK 1						
91	Cross Street HORSESHOE DR	USR	bollards		CSR	
		DSR	open sidewalk		CSR	
		USL	no access point		CSR	
		DSL	no access point		CSR	
92	Cross Street SISKIYOU AVE	USR	open sidewalk		CSR	
		DSR	> 6 foot open entry		CSR	
		USL	no access point		CSR	
		DSL	no access point		CSR	
97	Cross Street HOEN AVE	USR	chain link gate w/ped opening		SCWA	
		DSR	closed chain link gate		SCWA	
		USL	fence - no access		SCWA	
		DSL	fence - no access		SCWA	
98	Cross Street MAYETTE AVE	USR	> 6 foot open entry		SCWA	
		DSR	> 6 foot open entry		priv.	
		USL	no access point		SCWA	
		DSL	no access point		SCWA	
205	Cross Street YULUPA AVE	USR			Caltrans	
		DSR			Caltrans	
		USL			Caltrans	
		DSL			Caltrans	

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DSL = Down Stream Left **DSR** = Down Stream Right
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
93	CALAVERAS DR/ SACRAMENTO AVE	L		priv.		
		R				
LORNADELL CREEK 1						
87	Cross Street TACHEVAH DR	USR	fence - no access		SCWA	
		DSR			priv.	
		USL	> 6 foot open entry		school/ SCWA	Yulupa Elementary School
		DSL			priv.	
PINER CREEK WATERSHED						
PINER CREEK 2						
102	Cross Street HOPPER AVE	USR	fence - no access		SCWA	
		DSR	stepover gate	replace gate w/bollards		
		USL	closed chain link gate			service road to remain closed
		DSL	fence - no access			
105	Cross Street PINER RD	USR	stepover gate	replace gate w/bollards	SCWA	
		DSR	closed chain link gate		SCWA	service road to remain closed
		USL	fence - no access		SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
106	Cross Street COFFEY LN	USR	chainlink gate		SCWA	service road to remain closed
		DSR	chainlink gate		SCWA	service road to remain closed
		USL	fence-no access		SCWA	
		DSL	fence- no access		SCWA	
107	Cross Street RAILROAD	USR	> 6 foot entry	close access per SMART	SCWA/ SMART	
		DSR	> 6 foot entry		SCWA/ SMART	
		USL	no trail		SCWA/ SMART	
		DSL	no trail		SCWA/ SMART	
PINER CREEK 3						
111	Cross Street MARLOW RD	USR	closed chain link gate	replace gate w/bollards	SCWA	
		DSR	stepover gate	replace gate w/bollards	SCWA	
		USL	fence - no access		SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
113	Cross Street VALDES DR	USR	stepover gate	replace gate w/bollards	SCWA	
		DSR	stepover gate	replace gate w/bollards	SCWA	
		USL	stepover gate	replace gate w/bollards	SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
115	Cross Street GUERNEVILLE RD	USR	stepover gate; steep connection	replace gate w/bollards	SCWA	
		DSR	stepover gate	replace gate w/bollards	SCWA	
		USL	stepover gate ; steep connection	replace gate w/bollards; undercrossing	SCWA	Proposed undercrossing on left bank
		DSL	stepover gate	replace gate w/bollards; undercrossing	SCWA	
121	Cross Street FULTON RD	USR	stepover gate	replace gate w/bollards; undercrossing	SCWA	Proposed undercrossing on right bank
		DSR	stepover gate	replace gate w/bollards; undercrossing	SCWA	
		USL	stepover gate	replace gate w/bollards	SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
112	2781-2787 MARLOW CT	L			priv.	private property adjacent to SCWA, could be opened
		R				
114	2160 -2163 CREEKFIELD DR	L	fence	replace fence w/bollards	CSR	CSR property to SCWA,
		R				
119	2503 FULTON PL	L	fence		priv.	potential access
		R				
120	GREENVALE CT	L				
		R	chainlink gate	replace w/bollards	SCWA	
PETERSON CREEK 1						
123	Cross Street GUERNEVILLE RD	USR	closed chain link gate	replace gate w/bollards	SCWA	replace gate with bollards when Regional Parks improves trail
		DSR	closed chain link gate		SCWA	service road only
		USL	fence - no access		SCWA	no trail
		DSL	fence - no access		SCWA	no trail

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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments
125	Cross Street FULTON RD	USR	no access point	school	Piner High School
		DSR	chain link gate w/ped opening	CSR	
		USL	no access point	CSR	Piner High School
		DSL	no access point		
FORESTVIEW CREEK 1					
124	Cross Street GUERNEVILLE RD	USR	bollards	SCWA	
		DSR	fence - no access	SCWA	
		USL	fence - no access	SCWA	
		DSL	stepper gate	replace gate w/bollards	SCWA
126	Cross Street FULTON RD	USR		priv.	
		DSR	bollards	SCWA	
		USL		priv.	
		DSL	fence - no access	SCWA	
COFFEY CREEK 1					
108	Cross Street RAILROAD	USR		priv.	develop xing w/SMART
		DSR		priv.	
		USL		priv.	
		DSL		priv.	
109	Cross Street PINER RD	USR		priv.	
		DSR		priv.	
		USL		priv.	
		DSL		proposed paved trail	priv.
110	Cross Street BAY VILLAGE CIR	USR		priv.	SCWA stepper gate for maintenance access
		DSR		priv.	
		USL		priv.	private walkway
		DSL	stepper gate	replace gate w/bollards	priv.
RUSSELL CREEK 1					
127	Cross Street LAKE PARK DR	USR	open sidewalk	CSR	
		DSR	open sidewalk	CSR	
		USL	open sidewalk	CSR	
		DSL	no access point	CSR	
128	Cross Street LAKE PARK DR/BICENTENNIAL WAY	USR		CSR	
		DSR		priv.	
		USL	bollards	priv.	
		DSL		priv.	
129	Cross Street OLD REDWOOD HWY	USR		priv.	
		DSR	stepper gate	replace w/bollards	SCWA
		USL		priv.	
		DSL		SCWA	
RUSSELL CREEK 2					
103	Cross Street 3175 RANGE AV	USR		priv.	
		DSR	stepper gate	replace gate w/bollards	SCWA
		USL		CSR	
		DSL	fence - no access	SCWA	
104	~1000 PINER RD	L			
		R		priv.	proposed entry
STEELE CREEK 1					
116	Cross Street RIDLEY AVE	USR	closed chain link gate	to remain closed	SCWA
		DSR	fence - no access		SCWA
		USL	fence - no access		SCWA
		DSL	stepper gate	replace gate w/bollards	SCWA
117	Cross Street MARLOW RD	USR	closed chain link gate	to remain closed	SCWA
		DSR	< 6 foot open entry		SCWA
		USL	stepper gate	replace gate w/bollards	SCWA
		DSL	> 6 foot open entry		SCWA
118	Cross Street GAMAY ST	USR	open sidewalk		SCWA
		DSR	open sidewalk		SCWA
		USL	open sidewalk		SCWA
		DSL	open sidewalk		SCWA
131	Cross Street JENNINGS AVE	USR	closed chain link gate	replace gate w/bollards	SCWA
		DSR	closed chain link gate w/small walkaround	replace gate w/bollards	SCWA
		USL	no access point		SCWA
		DSL	no access point		SCWA

Table E-4: Trail Entry Points

Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
DSL = Down Stream Left **DSR** = Down Stream Right
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments
132	Cross Street RAILROAD	USR > 6 foot opening		SCWA	
		DSR		SCWA	
		USL		SCWA	
		DSL < 6 foot opening		SCWA	
133	Cross Street N DUTTON AVE	USR fence - no access		CSR	
		DSR fence - no access		CSR	
		USL < 6 foot opening		CSR	
		DSL fence - no access		CSR	
PAULIN CREEK WATERSHED					
PAULIN CREEK 1					
134	Cross Street SLEEPY HOLLOW DR	USR fence - no access		priv.	
		DSR < 6 foot opening		priv.	
		USL fence - no access		priv.	
		DSL closed chain link gate	replace gate w/bollards	priv.	
PAULIN CREEK 2					
136	Cross Street CHANATE RD	USR		priv.	
		DSR		priv.	
		USL		priv.	
		DSL		priv.	
137	Cross Street CHANATE RD	USR		priv.	
		DSR		SCAPOSD	
		USL closed chain link gate	replace per Preserve Mgt. Plan	CSR	access to Paulin Creek Preserve (SCAPOSD)
		DSL		CSR	
135	Cross Street CASTLEROCK CT	L			
		R bollards		CSR	
PAULIN CREEK 3					
138	Cross Street CHANATE RD	USR		priv.	
		DSR		priv.	
		USL		priv.	
		DSL		priv.	
139	Cross Street MENDOCINO AVE	USR		priv.	
		DSR > 6 foot opening		County	
		USL		priv.	
		DSL fence - no access		County	
PAULIN CREEK 5					
141	Cross Street MCBRIDE LN	USR fence - no access		SCWA	
		DSR > 6 foot opening		SCWA	
		USL fence - no access		SCWA	
		DSL fence - no access		SCWA	
142	Cross Street RANGE AVE	USR chain link gate w/ped opening	replace gate w/bollards	SCWA	barely an opening for pedestrians, replace with bollard
		DSR stepover gate	replace gate w/bollards	SCWA	
		USL fence - no access		SCWA	
		DSL fence - no access		SCWA	
143	Cross Street HARDIES LN	USR stepover gate	replace gate w/bollards	SCWA	
		DSR fence - no access		SCWA	
		USL fence - no access		SCWA	
		DSL stepover gate	replace gate w/bollards	SCWA	
146	Cross Street COFFEY LN	USR fence - no access		SCWA	
		DSR fence - no access		SCWA and priv.	
		USL stepover gate	replace gate w/bollards	SCWA	
		DSL fence - no access		SCWA and priv.	proposed paved trail
147	Cross Street RAILROAD	USR no access point		SCWA/ SMART	
		DSR > 6 foot opening		SCWA/ SMART	access to SMART trail
		USL no access point		SCWA/ SMART	proposed access to SMART trail
		DSL no access point		SCWA/ SMART	
149	Cross Street APACHE ST	USR closed chain link gate	replace gate w/bollards	SCWA	
		DSR stepover gate	replace gate w/bollards	SCWA	
		USL fence - no access		SCWA	
		DSL fence - no access		SCWA	

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Descriptions are organized based on viewing a street crossing looking downstream: ■ existing ■ proposed
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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
150	Cross Street W STEELE LN	USR	stepover gate	replace gate w/bollards	SCWA	
		DSR	closed chain link gate	to remain closed	SCWA	
		USL	fence - no access		SCWA	
		DSL	closed chain link gate	replace gate w/bollards	SCWA	open access from NW Comm. Park
153	Cross Street MARLOW RD	USR	closed chain link gate	to remain closed	SCWA	
		DSR	stepover gate	replace gate w/bollards	SCWA	
		USL	closed chain link gate	replace gate w/bollards	SCWA	
		DSL	stepover gate	replace gate w/bollards	SCWA	
148	2572 MOHAWK CT	L				
		R	closed chain link gate	replace fence w/bollards	SCWA	potential access, fence exists but not a gate, access is from CSR to SCWA
144	HEIDI PL	L	gap in fence		priv.	
		R				
145	3018 COFFEY LANE	L	gap in fence		priv.	
		R				
POPPY CREEK 1						
155	1245 PARSONS DR	L				
		R	closed chain link gate	replace gate w/bollards	CSR	refers to access to pond from Parsons Dr; open gate if called for in plan
154	NW of 1232 Moss Rock Ct	L				
		R	closed chain link gate	replace gate w/bollards	CSR	refers to access to pond from Poppy Dr; open gate if called for
POPPY CREEK 2						
140	Cross Street MAJOR DR	USR	< 6 foot opening			
		DSR			priv.	
		USL			priv.	
		DSL			priv.	
SOUTHERN SANTA ROSA CREEKS WATERSHED						
ROSELAND CREEK 1						
156	Cross Street MCMINN AVE	USR			priv.	Trail opportunities in Roseland concept plan
		DSR			SCWA	
		USL			priv.	
		DSL	> 6 foot opening		SCWA	
ROSELAND CREEK 2						
157	Cross Street BURBANK AVE	USR			priv.	
		DSR			priv.	
		USL			priv.	Proposed paved trail per Roseland Ck concept plan
		DSL			priv.	
ROSELAND CREEK 3						
161	Cross Street STONY POINT RD	USR	> 6 foot opening		SCWA	
		DSR	closed chain link gate		SCWA	
		USL	> 6 foot opening		SCWA	
		DSL	stepover gate w/walkaround	could be replaced w/bollard	SCWA & CSR	
158	TROMBETTA ST (btwn 178-1830 Stopny Point Rd)	L				
		R		proposed access	priv.	see Roseland Ck Concept Plan
159	1310 -1318 TROMBETTA ST	L				
		R	> 6 foot opening		priv./ SCWA/ CSR	
203	1290 -1298 TROMBETTA ST	L				
		R	> 6 foot opening			
160	2244 STONY POINT RD	L				
		R		Undercrossing	priv.	per Roseland Ck Concept Plan
ROSELAND CREEK 4						
173	Cross Street LUDWIG AVE	USR	closed chain link gate	replace gate w/bollards	SCWA	depending on Plan and Regional Parks trail
		DSR	closed chain link gate	replace gate w/bollards	SCWA	depending on Plan and Regional Parks trail
		USL	closed chain link gate		SCWA	
		DSL	fence - no access		SCWA	depending on Plan and Regional Parks trail

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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments
162	~2949 EDGEWATER DR APN35730016	L	stepover gate w/walkaround		priv./ CSR
		R			
163	2937-2939EDGEWATER DR	L	< 6 foot opening		priv./ CSR
		R			
164	2919-2921 EDGEWATER DR	L	< 6 foot opening		priv./ CSR
		R			
165	2603-2905 EDGEWATER DR	L	> 6 foot opening		priv./ CSR
		R			multiple access near Pearl Blossom Park
166	2581-2585 EDGEWATER DR	L	< 6 foot opening		priv./ CSR
		R			
167	2563-2567 EDGEWATER DR	L	bollards		priv./ CSR
		R			
168	2545-2551 EDGEWATER DR	L	< 6 foot opening		priv./ CSR
		R			
169	2527-2531 EDGEWATER DR	L	< 6 foot opening		priv./ CSR
		R			
170	FRESNO AVE	L			
		R	>6 foot opening		SCWA
171	1315 -1316 YUBA DR	L	stepover gate	replace gate w/bollards	SCWA
		R			
COLGAN CREEK 1					
175	Cross Street FARMERS LN EXTENSION	USR			priv.
		DSR			priv.
		USL			priv.
		DSL			priv.
176	Cross Street MEDA AVE	USR	> 6 foot opening		CSR
		DSR	> 6 foot opening		CSR
		USL	> 6 foot opening		CSR
		DSL	> 6 foot opening		CSR
177	Cross Street KAWANA SPRINGS RD	USR			priv.
		DSR			priv.
		USL			priv.
		DSL			priv.
COLGAN CREEK 2					
178	Cross Street PETALUMA HILL RD	USR			priv.
		DSR			SCWA
		USL			priv.
		DSL			SCWA
179	2000 -2001 BEDFORD ST	L	bollards		SCWA
		R			
COLGAN CREEK 3					
180	Cross Street CORBY AVE	USR	fence - no access		SCWA
		DSR	closed chain link gate	remain closed	SCWA
		USL	fence - no access		SCWA
		DSL	fence - no access		SCWA
183	Cross Street HEARN AVE	USR	closed chain link gate		SCWA
		DSR	closed chain link gate		SCWA
		USL	fence - no access		SCWA & SMART
		DSL	fence - no access		SCWA & SMART
184	Cross Street VICTORIA DR	USR			priv.
		DSR	fence - no access		SCWA
		USL			priv.
		DSL	fence - no access		SCWA
181	612 CHERRYWOOD DR	L			
		R		per SMART trail plan	priv.
COLGAN CREEK 4					
191	Cross Street DUTTON MEADOW	USR	closed chain link gate	replace gate w/bollards	SCWA
		DSR	chain link gate w/ped opening		SCWA
		USL	stepover gate w/walkaround		SCWA/ CSR
		DSL	stepover gate w/walkaround		SCWA/ CSR

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Map Point #	Cross Street/Entry Location	Existing Conditions	Proposed Improvements	Priv. or Pub. property	Notes/Comments	
192	BURGESS DR	USR	chainlink gate w/walkaround		SR High School/SCWA/ CSR	
		DSR	bollards		SR High School/SCWA/ CSR	
		USL	open sidewalk		SR High School/SCWA/ CSR	via pathway along Bellevue Ave
		DSL	fence - no access		SR High School/SCWA/ CSR	
193	BELLEVUE AVE	USR	bollards		SCWA/ CSR	
		DSR	stepover gate	replace gate w/bollards	SCWA/ Reg. Parks	
		USL	fence - no access		SCWA/ CSR	
		DSL	bollards		SCWA/ Reg. Parks	
185	3205 BORON AV	L				
		R	bollards		SCWA/ CSR	
186	TUPELO AVE	L				
		R	bollards		SCWA/ CSR	
187	HOMESTEAD LN	L				
		R	bollards		SCWA/ CSR	
188	CANYONLANDS LN	L				
		R	bollards		SCWA/ CSR	
189	3361 MOJAVE AV	L				
		R	bollards		SCWA/ CSR	
190	399 BELLEVUE AVE	L	closed chain link gate	replace gate w/bollards	SCWA/ CSR	
		R				
TODD CREEK WATERSHED						
TODD CREEK						
195	DELORES LN	USR	no service road		SCWA	
		DSR	no service road		SCWA	
		USL	chainlink gate	propose to open when trail complete	SCWA	
		DSL	chain link gate	propose to open when trail complete	SCWA	
196	E ROBLES AVE	USR	no service road		SCWA	
		DSR	stepover gate	replace w/bollards	SCWA	
		USL	chain link gate		SCWA	
		DSL	stepover gate	replace w/bollards	SCWA	
197	BUCKS RD	USR	stepover gate	replace w/bollards	SCWA	
		DSR	closed chain link gate		SCWA	
		USL	stepover gate	replace w/bollards	SCWA	
		DSL	stepover gate	replace w/bollards	SCWA	
198	E TODD RD	USR	closed chain link gate		SCWA	
		DSR	stepover gate	replace w/bollards	SCWA	
		USL	stepover gate	replace w/bollards	SCWA	
		DSL	stepover gate	replace w/bollards	SCWA	
199	SANTA ROSA AVE	USR	stepover gate	replace w/bollards	SCWA	
		DSR	closed chain link gate		SCWA	
		USL	bollards		SCWA	
		DSL	closed chain link gate		SCWA	
200	SOUTH MOORLAND AVE	USR			Caltrans	
		DSR			Caltrans	
		USL	chainlink gate		SCWA	
		DSL	stepover gate	replace w/bollards	SCWA	
202	SCENIC AVE	USR	closed chain link gate		SCWA	
		DSR	closed chain link gate		SCWA	
		USL	stepover gate	replace w/bollards	SCWA	
		DSL	closed chain link gate		SCWA	
MOORLAND CREEK						
201	CRESCO CT	USR				
		DSR			priv.	
		USL				
		DSL				