

Public Finance
Real Estate Economics
Regional Economics
Land Use Policy

APPENDICES

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Public Finance Real Estate Economics Regional Economics Land Use Policy

APPENDIX A

BACKBONE INFRASTRUCTURE COSTS

ROADWAYS

On-Site Roadway
Off-Site Roadway
SEWER
Preliminary Cost Estimate—Sutter Pointe Sewer Master Plan
WATER
Preliminary Cost Estimate – Water Master Plan
DRAINAGE
South Sutter Specific Plan—Drainage Master Plan
AGRICULTURAL IRRIGATION
Preliminary Cost Estimate—NCMWC Agricultural Irrigation
DRY UTILITIES
Preliminary Cost Estimate – Dry Utilities Master Plan

PROBABLE OPINION OF CONSTRUCTION COST

for

Sutter Pointe Specific Plan ON-SITE ROADWAY

Sutter County, California

November 14, 2008



PHASE- 1	\$ 36,822,000
PHASE- 2	\$ 14,350,000
PHASE- 3	\$ 11,978,200
PHASE- 4	\$ 22,403,100
Sub Total	\$ 85,553,300
PHASE- A	\$ 12,364,000
PHASE- B	\$ 19,797,000
PHASE- C	\$ 16,070,000
PHASE- D	\$ 14,808,000
Sub Total	\$ 63,039,000
Total	\$ 148,592,300

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- 1							
Riego Rd.							
raogo ra	Highway 99 to Road "A"	8-lane Divided Arterial - Non Residential	R-1.14a	1,000	L.F.	\$ 1,860	
	Road "A" to 1500' west of Road "D"	6-lane Divided Arterial - Residential (1/2 section)	R-1.13	6,420	L.F.	\$ 835	
	Road "A" to 1500' west of Road "D"	6-lane Divided Arterial - Non Residential (1/2 section)	R-1.13	3,450	L.F.	\$ 835	
	1500' west or Road "D" to Road "D"	6-lane Divided Arterial - Non Residential (1/2 section)	R-1.13a	1,115	L.F.	\$ 795	These costs are now
	1500' west of Road "D" to Natomas Rd.	6-lane Divided Arterial - HDR or Non Residential (1/2 section)	R-1.13a	3,110	L.F.	\$ 795	part of the "S.P.
	At Road "D"	6x4 Intersection (b) - (1/2 section)	R-2.3	1	L.S.	\$ 1,003,000	Regional Transportation
	At Road "A"	8x6x6x6 Intersection	R-2.1	1	L.S.	\$ 3,033,000	improvements"
	At Pacific Ave	6x4 Intersection (a)	R-2.2	1	L.S.	\$ 2,356,000	\$22,980,000
	At Road "C"	6x4 Intersection (a)	R-2.2	1	L.S.	\$ 2,356,000	
	At Road "D"	6x4 Intersection (b) - (1/4 section)	R-2.3	1	L.S.	\$ 501,500	
	At Highway 99	Traffic Signal	R-2.17	1	L.S.	\$ 270,000	
Pacific Ave.	Sub-total Riego Rd.						
Pacific Ave.	D 1858 C	A1	D 4.0	4.050			4 400 000
	Road "E" to Riego Rd.	4-lane Divided Arterial (Residential)	R-1.9	1,350	L.F.	\$ 1,110	
	Riego Rd. to Road "G"	4-lane Divided Arterial (HDR or Non-Residential)	R-1.9a	270	L.F.	\$ 1,020	\$ 275,000
	Road "G" to 1500' north of Road "J"	4-lane Divided Arterial (Residential)	R-1.9	1,800	L.F.	\$ 1,110	
	At Road "E"	4x2 Roundabout	R-2.14	1	L.S.	\$ 992,000	
	At Road "G"	4x2 Intersection	R-2.13	1	L.S.	. , . ,	\$ 1,372,000
	At Road "J"	4x2 Intersection	R-2.13	1	L.S.	\$ 1,372,000	\$ 1,372,000
	Sub-total Pacific Ave.						\$ 7,508,000
Road "A"	FOOL of CD THEIR D. D.		D 4 40	000		A 1700	
	500' north of Road "E" to Riego Rd.	6-lane Town Center Arterial	R-1.12	932	L.F.	,	\$ 1,612,000
	Riego Rd. to Road "G" Road "G" to Road "J"	6-lane Divided Arterial	R-1.13 R-1.9	680	L.F. L.F.	\$ 1,670	
	At Road "J"	4-lane Divided Arterial (Residential) 4x2x2 Roundabout	R-1.9 R-2.16	1,320 1	L.F. L.S.	\$ 1,110 \$ 790,000	\$ 1,465,000 \$ 790,000
	Sub-total Road "A"	4x2x2 Roundabout	N-2.10	'	L.J.	φ 790,000	\$ 5,003,000
Road "C"	Sub-total Road A						Ψ 3,003,000
	Road "B" to Road "E"	4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section)	R-1.10a	630	L.F.	\$ 510	\$ 321,000
	Road "E" to 600' south of Riego Rd.	4-lane Divided Arterial w/ Class I Bike Lane - Residential	R-1.10	1,160	L.F.	\$ 1,110	\$ 1,288,000
	600' south of Riego Rd. to Road "G"	4-lane Divided Arterial w/ Class I Bike Lane - Residential (1/2 section)	R-1.10	880	L.F.	\$ 555	\$ 488,000
	600' south of Riego Rd. to Road "G"	4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section)	R-1.10a	880	L.F.	\$ 510	\$ 449,000
	Road "G" to Road "D"	4-lane Divided Arterial w/ Class I Bike Lane - Residential	R-1.10	2,270	L.F.	\$ 1,110	\$ 2,520,000
	Road "D" to 1200' north	4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section)	R-1.10a	800	L.F.	\$ 510	\$ 408,000
	At Road "E"	4x2 Roundabout (3/4 section)	R-2.14	1	L.S.	\$ 744,000	\$ 744,000
	At Road "G"	4x2 Intersection	R-2.13	1	L.S.	\$ 1,372,000	\$ 1,372,000
	At Road "J"	4x2 Intersection	R-2.13	1	L.S.	\$ 1,372,000	\$ 1,372,000
	At Road "D"	4x4x4 Intersection	R-2.10	1	L.S.	\$ 1,319,000	\$ 1,319,000
	Sub-total Road "C"						\$ 10,281,000

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
Road "J"							
	3900' west of Road "A" to 1100' north of Road "D"	2-lane Residential Collector	R-1.1	7,910	L.F.	\$ 430	\$ 3,401,000
	1100' north of Road "D" to 600' north	2-lane Residential Collector (1/2 section)	R-1.1	600	L.F.	\$ 215	\$ 129,000
	At Road "D"	4x2 Roundabout	R-2.14	1	L.S.	\$ 992,000	\$ 992,000
	Sub-total Road "J"						\$ 4,522,000
Road "G"							
	Road "A" to Road "D"	2-lane Residential Collector w/ Class II Bike Lane	R-1.3	6,720	L.F.	\$ 540	
	Road "D" to 680' north	2-lane Residential Collector w/ Class II Bike Lane (1/2 section)	R-1.3	680	L.F.	\$ 270	\$ 184,000
	700' north of Road 'D" to phase line	2-lane Residential Collector w/ Class II Bike Lane	R-1.3	2,945	L.F.	\$ 540	\$ 1,590,000
	Sub-total Road "G"						\$ 5,403,000
Road "D"							
	Riego Rd. to Road "G"	4-lane Residential Collector - HDR, Non-Residential (1/2 section)	R-1.4a	470	L.F.	\$ 310	
	Road "G" to Road "C"	4-lane Residential Collector - Residential (1/2 section)	R-1.4	3,100	L.F.	\$ 355	
	Road "G" to Road "C"	4-lane Residential Collector - HDR Non Residential (1/2 section)	R-1.4a	2,900	L.F.	\$ 310	\$ 899,000
	Sub-total Road "D"						\$ 2,146,000
Road "E"							
	1000' east of Road "A" to Pacific Ave.	2-lane Residential Collector w/ Class I Bike Lane (1/2 section)	R-1.2	1,030	L.F.	\$ 190	
	Pacific Ave. to Road "C"	2-lane Residential Collector w/ Class I Bike Lane	R-1.2	1,320	L.F.	\$ 380	\$ 502,000
	Road "C" to 1500' west of Road "D"	2-lane Residential Collector w/ Class I Bike Lane (1/2 section)	R-1.2	2,390	L.F.	\$ 190	\$ 454,000
	Sub-total Road "E"						\$ 1,152,000
Road "B"							
	Road "C" to 2400' west	2-lane Residential Collector w/ Class I Bike Lane (1/2 section)	R-1.2	900	L.F.	\$ 190	\$ 171,000
Road "L"							
	Road "J" to 1500' north	2-lane Residential Collector	R-1.1	1,480	L.F.	\$ 430	\$ 636,000
Total Phase	e - 1						\$ 36,822,000

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- 2							
Road "E"							
	Road "C" to Road "D" At Road "C" At Road "D"	2-lane Residential Collector w/ Class I Bike Lane (1/2 section) 4x2 Roundabout (1/4 section) 4x2x2 Roundabout (3/4 section)	R-1.2 R-2.14 R-2.16	3,515 1 1	L.F. L.S. L.S.	\$ 190 \$ 248,000 \$ 592,500	\$ 248,000 \$ 593,000
Road "B"	Sub-total Road "E"						\$ 1,509,000
	Road "D" to Road "C" Road "C" to 1500' west	2-lane Residential Collector w/ Class I Bike Lane 2-lane Residential Collector w/ Class I Bike Lane (1/2 section)	R-1.2 R-1.2	5,700 1,480	L.F. L.F.	\$ 380 \$ 190	\$ 2,166,000 \$ 281,000
Road "C"	Sub-total Road "B"						\$ 2,447,000
Nous o	County bndy to south Road "B" Road "B" to Road "E" 1200' north of Road "D" to Road "M" At Road "M"	4-lane Divided Arterial w/ Class I Bike Lane - Residential 4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section) 4-lane Divided Arterial w/ Class I Bike Lane - Residential (1/2 section) 4x4x2 Intersection (1/3 section)	R-1.10 R-1.10a R-1.10 R-2.9	2,090 630 2,370	L.F. L.F. L.F. L.S.	\$ 1,110 \$ 510 \$ 555 \$ 623,500	\$ 321,000 \$ 1,315,000
D1 D	Sub-total Road "C"						\$ 4,580,000
Road "D"	Road "B" to Riego Rd.	4-lane Residential Collector (1/2 section)	R-1.4	1,360	L.F.	\$ 355	\$ 483,000
Road "G"							
Riego Rd.	Phase 1 to Road "M"	2-lane Residential Collector w/ Class II Bike Lane	R-1.3	3,350	L.F.	\$ 540	\$ 1,809,000
	Road "D" to Natomas Rd.	6-lane Divided Arterial - Residential (1/2 section)	R-1.13	2,000	L.F.	\$ 835	These costs are now part of the "S.P. Regional Transportation Improvements" \$2,172,000
	At Road "D"	6x4 Intersection (b) - (1/4 section)	R-2.3	1	L.S.	\$ 501,500	•
Road "J"	Sub-total Riego Rd.						-
	3900' west of Road "A" to 1600' north 1200' east of Road "D" to 600' north 600' north of Road "D" to Road "M"	2-lane Residential Collector 2-lane Residential Collector (1/2 section) 2-lane Residential Collector	R-1.1 R-1.1 R-1.1	1,500 600 2,760	L.F. L.F. L.F.	\$ 215	\$ 645,000 \$ 129,000 \$ 1,187,000
Road "L"	Sub-total Road "J"						\$ 1,961,000
Bood "M"	1500' north of Road "J" to 2230' north	2-lane Residential Collector	R-1.1	2,230	L.F.	\$ 430	\$ 959,000
Road "M"	Road "C" to Road "G"	2-lane Residential Collector (1/2 section)	R-1.1	2,800	L.F.	\$ 215	\$ 602,000
Total Phase	e - 2						\$ 14,350,000

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- 3							
Road "J"							
Road J	Phase 2 to Pacific Ave.	2-lane Residential Collector	R-1.1	3,750	L.F.	\$ 430	\$ 1,613,000
	Road "G" to Road "M"	2-lane Residential Collector	R-1.1	1,280	L.F.	\$ 430	
	At Pacific Ave.	2x2x2 Roundabout	R-2.15	1	L.S.	\$ 530,000	
	At Road "L" Sub-total Road "J"	4x4x4x2 Intersection (1/2 section)	R-2.2	1	L.S.	\$ 1,178,000	\$ 1,178,000 \$ 3,871,000
Road "L"	Sub-total Road 3						3,671,000
	Phase 2 to Road "J"	2-lane Residential Collector	R-1.1	2,225	L.F.	\$ 430	\$ 957,000
Pacific Ave.							
	Road "K" to Sankey Rd.	4-lane Divided Arterial (Residential) - 1/2 section	R-1.9	1,390	L.F.	\$ 555	
	Road "K" to Sankey Rd. Sub-total Pacific Ave.	4-lane Divided Arterial (HDR or Non-Residential) - 1/2 section	R-1.9a	1,390	L.F.	\$ 510	\$ 709,000 \$ 1,480,000
Sankey Rd.	Sub-total Facilic Ave.						Ψ 1,460,000
	Highway 99 to Pacific Ave.	4-lane Divided Arterial - Residential (1/2 section)	R-1.9	1,720	L.F.	\$ 555	\$ 955,000
	Pacific Ave. to 1900' east of Pacific Ave.	4-lane Divided Arterial - Non Residential (1/2 section)	R-1.9a	1,475	L.F.	\$ 510	\$ 752,000
	At Pacific Ave.	4x4x4x2 Intersection (1/2 section)	R-2.7	1	L.S.	\$ 733,000	\$ 733,000
Road "G"	Sub-total Sankey Rd.						\$ 2,440,000
Noau C	Road "C" to Road "J"	4-lane Residential Collector (1/2 section)	R-1.4	640	L.F.	\$ 355	\$ 227,000
	Road "J" to 1300' north of Road "M"	2-lane Residential Collector (1/2 section)	R-1.1	2,360	L.F.	\$ 215	
	2300' east of Road "J" to Road "M"	2-lane Residential Collector	R-1.1	1,240	L.F.	\$ 430	
	Road "D" to 700' east	2-lane Residential Collector w/ Class II Bike Lane (1/2 section)	R-1.3	680	L.F.	\$ 270	\$ 183,600
Road "M"	Sub-total Road "G"						\$ 1,451,200
itodd iii	Road "C" to Road "G"	2-lane Residential Collector (1/2 section)	R-1.1	440	L.F.	\$ 215	\$ 95,000
	At Road "C'	4x4x2 Intersection (1/2 section)	R-2.9	1	L.S.	\$ 623,500	\$ 623,500
	Sub-total Road "M"						\$ 718,500
Road "C"	Road "M" to Road "G"	A long Divided Arterial w/ Class I Bike I and Begidential (4/2 agation)	R-1.10	440	L.F.	\$ 555	¢ 244,000
	Noau IVI to Roau G	4-lane Divided Arterial w/ Class I Bike Lane - Residential (1/2 section)	K-1.10	440	L.F.	\$ 555	\$ 244,000
Road "D"							
	Road "B" to Road "G"	4-lane Residential Collector (1/2 section)	R-1.4	870	L.F.	\$ 355	\$ 309,000
Road "E"							
	2800' east of Road "C" to Road "D" At Road "D"	2-lane Residential Collector w/ Class I Bike Lane (1/2 section) 4x2x2 Roundabout (1/4 section)	R-1.2 R-2.16	1,120 1	L.F. L.S.	\$ 190 \$ 197,500	\$ 213,000 \$ 197,500
	Sub-total Road "E"	4x2x2 Roundabout (1/4 Section)	K-2.10		L.S.	φ 197,500	\$ 197,500 \$ 410,500
Road "K"	Jan Islan Roda E						,
	Pacific Ave. to 850' east	2-lane Residential Collector (1/2 section)	R-1.1	450	L.F.	\$ 215	\$ 97,000
Total Phase	- 3						\$ 11,978,200

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- 4							
Road "A"							
	County line to Road "B"	4-lane Town Center Arterial (105' ROW)	R-1.11	2,090	L.F.	\$ 1,310	\$ 2,738,000
	Road "B" to Road "E"	4-lane Town Center Arterial (123'ROW)	R-1.11a	490	L.F.	\$ 1,130	
	Road "E" to Phase 1	6-lane Town Center Arterial	R-1.12	70	L.F.	\$ 1,730	
	At Road "B" At Road "E"	4x4x4x2 Intersection (b) 6x4x2 Intersection	R-2.8 R-2.11	1 1	L.S. L.S.	\$ 1,613,000 \$ 1,341,000	\$ 1,613,000 \$ 1,341,000
	Sub-total Road "A"	0x4x2 Intersection	N-2.11	'	L.3.	φ 1,341,000	\$ 6,367,000
Road "B"							
	Highway 99 to Road "A"	4-lane Divided Arterial - Non Residential	R-1.9a R-1.2	705	L.F. L.F.	\$ 1,020 \$ 380	\$ 719,100
	Road "A" to 2400' west of Road "C" 2400' west of Road "C" to Phase 2	2-lane Residential Collector w/ Class I Bike Lane 2-lane Residential Collector w/ Class I Bike Lane (1/2 section)	R-1.2 R-1.2	2,580 900	L.F.	\$ 190	\$ 980,000 \$ 171,000
	Sub-total Road "B"	2 lane residential collector wi class i blice Earle (1/2 section)	10 1.2	300	L.I .	Ψ 150	\$ 1,870,100
Road "E"							,,,,,,,,,
	1160' east of Road "A" to Road "A"	2-lane Residential Collector	R-1.1	760	L.F.	\$ 430	\$ 327,000
Sankey Rd.							
	900' west of Road "C" to Road "C"	4-lane Divided Arterial - Non Residential (1/2 section)	R-1.9a	500	L.F. L.F.	\$ 510	
	Road "C" ot 1000' east 1000' east of Road "C" to Natomas Rd.	4-lane Divided Arterial - Non Residential 4-lane Divided Arterial w/ Class I Bike Lane	R-1.10a R-1.10	600 2,000	L.F.	\$ 1,020 \$ 1,110	\$ 612,000 \$ 2,220,000
	At Road "C"	4x4 Intersection	R-2.12	2,000	L.S.	\$ 1,999,000	\$ 2,220,000
	At Highway 99	Traffic Signal	R-2.17	1	L.S.	\$ 270,000	
	Sub-total Sankey Rd.					,	\$ 5,356,000
Road "C"					,		
	Road "K" to 1160' north of Sankey Rd.	4-lane Divided Arterial w/ Class I Bike Lane - Non Residential	R-1.10a	1,350	L.F.	\$ 1,020	\$ 1,377,000
	1160' north of Sankey Rd. to Road "N"	4-lane Divided Arterial w/ Class I Bike Lane - Residential (1/2 section)	R-1.10	1,390	L.F. L.F.		\$ 771,000 \$ 709,000
	1160' north of Sankey Rd. to Road "N" At Road "O"	4-lane Divided Arterial w/ Class I Bike Lane - Non Residential (1/2 section) 4x2 Intersection	R-1.10a R-2.13	1,390 1	L.F. L.S.		\$ 709,000 \$ 1,372,000
	Sub-total Road "C"	TAZ IIIOI GOULOIT	1(2.10		L.O.	Ψ 1,572,000	\$ 4,229,000
Road "O"							, ,,,,,,,,
	Road "C" to Road "N"	2-lane Residential Collector	R-1.1	2,070	L.F.	\$ 430	\$ 890,000
Road "N"	D. HOLL N. C. D.		544	4 700			770,000
Road "G"	Road "C" to Natomas Rd.	2-lane Residential Collector	R-1.1	1,790	L.F.	\$ 430	\$ 770,000
Noau G	1200' west of Road "C" to Road "C"	4-lane Industrial Collector (1/2 section)	R-1.8	800	L.F.	\$ 380	\$ 304,000
	Road "C" to Road "J"	4-lane Residential Collector (1/2 section)	R-1.4	640	L.F.	\$ 355	\$ 227,000
	Road "J" to 1300' north of Road "M"	2-lane Residential Collector (1/2 section)	R-1.1	3,600	L.F.	\$ 215	\$ 774,000
	Sub-total Road "G"						\$ 1,305,000
Road "K"	44001 of D 11011 to D 11011	A long to the state of Oolle state (4/O as a time)	D 4.0	700	,	Ф ссс	Ф 000 000
	1160' west of Road "C" to Road "C" At Road "C"	4-lane Industrial Collector (1/2 section) 4x4 Intersection (1/2 section)	R-1.8 R-2.12	760 1	L.F. L.S.	\$ 380 \$ 999,500	\$ 289,000 \$ 1,000,000
	Sub-total Road "C"	TAT IIICISCUIOII (1/2 SEUIOII)	N-2.12	'	L.J.	ψ 999,300	\$ 1,289,000
							,_55,000
Total Phase	- 4						\$ 22,403,100

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- A							
Riego Rd.							
Ü	1000' east of Road "R" to 600' east 1000' west of Road "S" to Road "S" Road "S" to Highway 99 At Road "S" At Highway 99	6-lane Divided Arterial - Non Residential (1/2 section) 6-lane Divided Arterial - Non Residential 8-lane Divided Arterial - Non Residential 8x6x3x3 Intersection Traffic Signal	R-1.13a R-1.13a R-1.14a R-2.4 R-2.17	800 420 1,240 1	L.F. L.F. L.F. L.S. L.S.	\$ 1,590 \$ 1,860 \$ 1,920,000	\$ 636,000 \$ 668,000 \$ 2,306,000 \$ 1,920,000 \$ 270,000
Road "Q"	Sub-total Reigo Rd.						\$ 5,800,000
	1000' east of Road "R" to Highway 99	3-lane Industrial Collector	R-1.7	3,580	L.F.	\$ 640	\$ 2,291,000
Road "S"	Road "Q" to Riego Rd.	3-lane Industrial Collector	R-1.7	2,020	L.F.	\$ 640	\$ 1,293,000
Road "T"				,			,,
Road "V"	2700' west of Road "Q" to Road "Q"	3-lane Industrial Collector	R-1.7	2,790	L.F.	\$ 640	\$ 1,786,000
	Riego Rd. to 1300' north Riego Rd.	3-lane Industrial Collector	R-1.7	1,865	L.F.	\$ 640	\$ 1,194,000
Total Phase	- A						\$ 12,364,000
PHASE- B							
Pacific Ave.							
r acinc Ave.	1390' north of Road "J" to Road "K" At Road "K"	4-lane Divided Arterial (HDR or Non-residential) 4x4x4x2 Intersection (a)	R-1.9a R-2.2	4,900 1	L.F. L.S.	\$ 1,020 \$ 1,178,000	
Road "C"	Sub-total Pacific Ave.	. ,					\$ 6,176,000
	Road "D" to 1100' north	4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section)	R-1.10a	730	L.F.	\$ 510	\$ 372,000
Road "K"	Pacific Ave. to 1600' west of Road "C"	4-lane Industrial Collector (1/2 section)	R-1.8	3,250	L.F.	\$ 380	\$ 1,235,000
Road "R"	0 11: 10 11: 11: 11: 11: 11: 11: 11: 11:	<u> </u>	D. 4.7	1 000			
	County Line to Road "V" At Road "T"	3-lane Industrial Collector Traffic Signal	R-1.7 R-2.17	4,960 1	L.F. L.S.	\$ 640 \$ 270,000	\$ 3,174,000 \$ 270,000
	At Riego Rd.	6x4x3x3 Intersection	R-2.5	1	L.S.	\$ 1,972,000	\$ 1,972,000
Road "V"	Sub-total Road "R"						\$ 5,416,000
Diama Del	Phase C to Phase A	3-lane Industrial Collector	R-1.7	3,090	L.F.	\$ 640	\$ 1,978,000
Riego Rd.	Phase C to Road "R"	4-lane Industrial Collector	R-1.8	980	L.F.	\$ 760	\$ 745,000
	Road "R" to 960' east	6-lane Divided Arterial - Non Residential	R-1.13a	560	L.F.	\$ 1,590	\$ 890,000
	960' east of Road "R" to 800' west of Road "S" Sub-total Riego Rd.	6-lane Divided Arterial - Non Residential (1/2 section)	R-1.13a	800	L.F.	\$ 795	\$ 636,000 \$ 2,271,000
Road "Q"		O long to the strict On the star	D 4.7	4.000		0 010	
Road "T"	Road "R" to 1300' east	3-lane Industrial Collector	R-1.7	1,300	L.F.	\$ 640	\$ 832,000
	Phase C to Phase A	3-lane Industrial Collector	R-1.7	2,370	L.F.	\$ 640	\$ 1,517,000
Total Phase	- B						\$ 19,797,000

Items	Roadway Segments	Project Description	Reference Table	Qty	Unit	Unit Price	Total
PHASE- C							
Sankey Rd.							
Road "K"	1900' east of Pacific Ave. to 900' west of Road "C"	4-lane Divided Arterial - Non Residential (1/2 section)	R-1.9a	3,230	L.F.	\$ 510	\$ 1,647,000
Koau K	1000' east of Pacific Ave to 1580' west of Road "C"	4-lane Industrial Collector (1/2 section)	R-1.8	2,800	L.F.	\$ 380	\$ 1,064,000
	1580' west of Road "C" to 420' east	4-lane Industrial Collector	R-1.8	420	L.F.	\$ 760	\$ 319,000
	1160' west of Road "C" to Road "C"	4-lane Industrial Collector (1/2 section)	R-1.8	760	L.F.	\$ 380	\$ 289,000
	At Road "C" Sub-total Road "K"	4x4 Intersection (1/4 section)	R-2.12	1	L.S.	\$ 999,500	\$ 1,000,000 \$ 2,672,000
Road "C"							
Diago Dd	Phase A to Road "K"	4-lane Divided Arterial w/ Class I Bike Lane - Non Res. (1/2 section)	R-1.10a	2,800	L.F.	\$ 510	\$ 1,428,000
Riego Rd.	Powerline Rd. to 900' west Road "U"	4-lane Industrial Collector half section	R-1.8a	1,420	L.F.	\$ 510	\$ 724,000
	900' west of Road "U" to Phase B	4-lane Industrial Collector	R-1.8	1,890	L.F.	\$ 760	\$ 1,436,000
	At Road "U"	4x3x3x3 Intersection	R-2.6	1	L.S.	\$ 1,280,000	\$ 1,280,000
	At Powerline Rd.	Traffic Signal	R-2.17	1	L.S.	\$ 270,000	\$ 270,000
Road "V"	Sub-total Riego Rd.						\$ 3,710,000
	Riego Rd. to Phase B	3-lane Industrial Collector	R-1.7	2,940	L.F.	\$ 640	\$ 1,882,000
Road "U"							
Road "T"	Road "T" to Riego Rd.	3-lane Industrial Collector	R-1.7	3,420	L.F.	\$ 640	\$ 2,189,000
Koau 1	Powerline Rd. to Phase B	3-lane Industrial Collector	R-1.7	3,550	L.F.	\$ 640	\$ 2,272,000
	At Powerline Rd.	Traffic Signal	R-2.17	1	L.S.	\$ 270,000	\$ 270,000
	Sub-total Road "T"						\$ 2,542,000
Total Phase	9-C						\$ 16,070,000
PHASE- D							
Sankey Rd.							
.,	Highway 99 to Road "C"	4-lane Divided Arterial - Non Residential (1/2 section)	R-1.9a	7,440	L.F.	\$ 510	\$ 3,794,000
	At Pacific Rd.	4x4x4x2 Intersection (a) - (1/2 section)	R-2.7	1	L.S.	\$ 733,000	\$ 733,000
Road "H"	Sub-total Sankey Rd.						\$ 4,527,000
Noau H	Sankey Rd. to Road "N"	2-lane Industrial Collector	R-1.5	1,900	L.F.	\$ 490	\$ 931,000
Road "N"	·			ŕ			, , , , , , , , , , , , , , , , , , , ,
	Road "O" to Road "C"	2-lane Industrial Collector	R-1.5	8,900	L.F.	\$ 490	\$ 4,361,000
Road "P"	Road "O" to Road "N"	2-lane Industrial Collector	R-1.5	1,520	L.F.	\$ 490	\$ 745,000
Road "O"	Toda O to Hoda IV	2 iano maasiiai odiicoldi	11.0	1,020	L.I .	490	1 73,000
	Highway 99 to Road "C"	2-lane Industrial Collector w/ Class II Bike Lane	R-1.6	8,640	L.F.	\$ 460	
	At Road "H"	Traffic Signal	R-2.17	1	L.S.	\$ 270,000	\$ 270,000
	Sub-total Road "O"						\$ 4,244,000
Total Phase	e - D						\$ 14,808,000
TOTAL PRO	JECT COST						\$ 148,592,300

NOTES

On-Site Roadway

Sutter Pointe Specific Plan

Sutter County, California

- 1. This estimate is prepared as a guide only and is subject to possible change. It has been prepared to a standard of accuracy which, to the best of our knowledge and judgment, is sufficient to satisfy our understanding of the purpose of this estimate. MacKay & Somps makes no warranty, either expressed or implied, as to the accuracy of this estimate.
- 2. This estimate is based on the Conceptual Land Use Plan, March 2008.
- 3. This estimate does not consider the following:
 - a. Fencing and bulkheads
 - b. Assessments for assessment, lighting & landscaping, GHAD, Mello Roos districts of the like
 - c. Reimbursable dry utilities costs. (Est. net costs after reimbursements are included in the estimate.)
 - d. Erosion Control and siltation costs
 - e. Postal pads and mail boxes
 - f. Land costs, right of way acquisition, entitlements, easements, and/or rights of entry
 - g. Backflow Devices
 - h. Pole relocation or under grounding of existing overhead facilities
 - I. Fees due at building permit
 - j. Over excavation of unsuitable materials, undercutting, and/or landslide repair
 - k. Costs associated with high groundwater or inclement weather conditions
 - 1. Costs associated with limitations on construction access
 - m. Tree preservation systems and mitigation costs
 - n. Landscaping & associated design costs outside of back of the walk
 - o. Costs associated with Homeowner's Associations
 - p. Financing and overhead charges.
 - q. Costs associated with Endangered Species and Wildlife Conservation.
 - r. Cost associated with Corps of Engineer, Fish and Game, Fish and Wildlife and Wetlands (Permitting, Mitigation, and Preservation)
 - s. Costs associated with inclusionary zoning and low income housing
 - t. Toxic contamination evaluation studies or remediation
 - u. Archaeological studies, investigations or relocations
 - v. Costs associated with siltation basins
 - w. Bridges and associated design costs
 - x. Cost associated with traffic engineering studies, and construction
 - y. Irrigation systems and associated design costs
 - z. CMU and/or rock retaining walls
 - aa. Cost associated with the design and construction of stormwater quality treatment units
 - bb. Emergency vehicle access
 - cc. Costs associated with tie-ins to existing utilities
 - dd. Architectural design and associated fees
 - ee. Detention facilities and associated maintenance costs
 - ff. Interior drainage inlets and pipes associated with courtyard and/or open space areas
 - gg. Bonds
- 4. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- 5. Costs presented herein represent an opinion based on historical information. No provision has been made for inflation

Figure R-1.0 Roadway Cross Section Index Summary of Preliminary Per Foot Cost Estimates

SHEET	PROJECT NAME	TOTAL	COST PER L.F.
R-1.1	2-lane Residential Collector	\$	430.00
R-1.2	2-lane Residential Collector (w/ Class I Bike lane)	\$	380.00
R-1.3	2-lane Residential Collector (w/ Class II Bike lane)	\$	540.00
R-1.4	4-lane Residential Collector (Residential)	\$	710.00
R-1.4a	4-lane Residential Collector (HDR or Non-Residential)	\$	620.00
R-1.5	2-lane Industrial Collector	\$	490.00
R-1.6	2-lane Industrial Collector (w/ Class II Bike lane)	\$	460.00
R-1.7	3-lane Industrial Collector	\$	640.00
R-1.8	4-lane Industrial Collector	\$	760.00
R-1.8a	4-lane Industrial Collector (half street)	\$	510.00
R-1.9	4-lane Divided Arterial (Residential)	\$	1,110.00
R-1.9a	4-lane Divided Arterial (HDR or Non-Residential)	\$	1,020.00
R-1.10	4-lane Divided Arterial - w/ Class I Bike lane (Residential)	\$	1,110.00
R-1.10a	4-lane Divided Arterial - w/ Class I Bike lane (HDR or Non-Res.)	\$	1,020.00
R-1.11	4-lane Town Center Arterial (123' ROW)	\$	1,310.00
R-1.11a	4-lane Town Center Arterial (105' ROW)	\$	1,130.00
R-1.12	6-lane Town Center Arterial	\$	1,730.00
R-1.13	6-lane Divided Arterial (Residential)	\$	1,670.00
R-1.13a	6-lane Divided Arterial (HDR or Non-Residential)	\$	1,590.00
R-1.14	8-lane Divided Arterial (Residential)	\$	1,930.00
R-1.14a	8-lane Divided Arterial (HDR or Non-Residential)	\$	1,860.00

Figure R-2.0 Intersection Index

SHEET	PROJECT NAME	Т	OTAL COST
R-2.1	8x6x6x6 Intersection	\$	3,033,000
R-2.2	6x4 Intersection (a)	\$	2,356,000
R-2.3	6x4 Intersection (b)	\$	2,006,000
R-2.4	8x6x3x3 Intersection	\$	1,920,000
R-2.5	6x4x3x3 Intersection	\$	1,972,000
R-2.6	4x3x3x3 Intersection	\$	1,280,000
R-2.7	4x4x4x2 Intersection (a)	\$	1,466,000
R-2.8	4x4x4x2 Intersection (b)	\$	1,613,000
R-2.9	4x4x2 Intersection	\$	1,247,000
R-2.10	4x4x4 Intersection	\$	1,319,000
R-2.11	6x4x2 Intersection	\$	1,341,000
R-2.12	4x4 Intersection	\$	1,999,000
R-2.13	4x2 Intersection	\$	1,372,000
R-2.14	4x2 Roundabout	\$	992,000
R-2.15	2x2x2 Roundabout	\$	530,000
R-2.16	4x2x2 Roundabout	\$	790,000
R-2.17	Traffic Signal	\$	270,000

PROBABLE OPINION OF CONSTRUCTION COST

for

Sutter Pointe Specific Plan OFF-SITE ROADWAYS

Sutter-Pointe Regional Transportation Improvements

Sutter County, California

November 14, 2008



	ULTIMATE BUILDOUT					
Mitigation Measures	Description of Improvements	Tot	tal Estimated Cost	Traffic Share	Pro	oject Fair Share Cost
M.M. 3.3-2A	Riego Road widen to four lanes	\$	5,180,000	50%	\$	2,590,000
M.M. 3.3-3A	Baseline Raod widen to four lanes	\$	5,082,000	50%	\$	2,541,000
M.M. 3.3-3B	Baseline Raod widen to four lanes	\$	6,413,000	35%	\$	2,244,550
M.M. 3.3-3C	Baseline Raod widen to four lanes	\$	20,207,000	21%	\$	4,243,470
M.M. 3.3-3D	Baseline Raod widen to four lanes	\$	11,811,000	12%	\$	1,417,320
M.M. 3.3-4	I-5 widen to eight lanes (add HOV lanes)	\$	9,843,000	24%	\$	2,362,320
M.M. 3.3-5A	Construct a grade-separated interchange	\$	19,000,000	100%	\$	19,000,000
M.M. 3.3-5B	Modify existing intersection	\$	488,200	50%	\$	244,100
M.M. 3.3-5C	Construct slip on-ramp	\$	2,937,000	50%	\$	1,468,500
M.M. 3.3-6A	Modify existing intersection	\$	486,000	50%	\$	243,000
M.M. 3.3-6B	Modify existing intersection	\$	877,000	50%	\$	438,500
M.M. 3.3-6C	Modify existing intersection	\$	479,200	21%	\$	100,632
M.M. 3.3-6D	Modify existing intersection	\$	22,300	12%	\$	2,676
M.M. 3.3-7A	Modify existing intersection	\$	1,752,400	50%	\$	876,200
M.M. 3.3-7B	Construct a grade-separated interchange	\$	30,200,000	16%	\$	4,832,000
M.M. 3.3-7C	Modify existing intersection	\$	20,200	16%	\$	3,232
M.M. 3.3-7D	Modify existing intersection	\$	680,800	16%	\$	108,928
M.M. 3.3-7E	Add traffic Signals	\$	801,900	16%	\$	128,304
M.M. 3.3-7F	Modify existing intersection	\$	1,113,400	7%	\$	77,938
Riego Road On-site Phase 1 & A	Riego Road widen to six lanes and four lanes	\$	19,594,000	50%	\$	9,797,000
M.M. 3.3-8A	SR 70/99 & I-5 Contruct HOV lanes & Auxiliary lanes	\$	36,275,600	32%	\$	11,608,192
M.M. 3.3-8B	SR 70/99 & I-5 Contruct HOV lanes	\$	10,605,000	35%	\$	3,711,750
M.M. 3.3-8C	SR 70/99 & I-5 Contruct HOV lanes	\$	13,332,000	39%	\$	5,199,480
M.M. 3.3-8D	SR 70/99 & I-5 Contruct HOV lanes	\$	8,080,000	31%	\$	2,504,800
M.M. 3.3-9A	Riego Road/Baseline Road widen to six lanes; construct a grade- separated crossing of the Union Pacific Railroad; Re-align Pleasant Grove Road (N) and Pleasant Grove Road (S); Install traffic signal	\$	41,020,000	50%	\$	20,510,000
M.M. 3.3-10A	Same as Mitigation Measure 3.3-3A	\$	-	50%	\$	-
M.M. 3.3-10B	16th Street widen to four lanes	\$	3,286,000	21%	\$	690,060
M.M. 3.3-10C	Same as Mitigation Measure 3.3-10B	\$	-	3%	\$	-
M.M. 3.3-10D	Watt Avenue widen to six lanes	\$	18,723,000	1%	\$	187,230
M.M. 3.3-11A	Elverta Road widen to four lanes	\$	17,787,000	16%	\$	2,845,920
M.M. 3.3-11B	Elverta Road widen to four lanes	\$	2,592,000	16%	\$	414,720

SUTTER-POINTE REGIONAL TRANSPORTATION IMPROVEMENTS

M.M. 3.3-11C	Same as Mitigation 3.3-10B	\$ -	13%	\$ -
M.M. 3.3-11D	Same as Mitigation 3.3-10B	\$ -	1%	\$ -
M.M. 3.3-12A	I-5 widen to eight lanes (add HOV lanes)	\$ 4,978,000	31%	\$ 1,543,180
M.M. 3.3-12B	Same as Mitigation Measure 3.3-4	\$ -	28%	\$ -
M.M. 3.3-12C	I-5 widen to eight lanes (add HOV lanes)	\$ 9,301,000	24%	\$ 2,232,240
M.M. 3.3-13A	Same as Mitigation Measure 3.3-5A	\$ -	32%	\$ -
M.M. 3.3-13B	Modify existing intersection	\$ 215,700	50%	\$ 107,850
M.M. 3.3-13C	Restripe overcrossing	\$ 74,250	80%	\$ 59,400
M.M. 3.3-13D	Construct slip on-ramp	\$ 2,937,000	80%	\$ 2,349,600
M.M. 3.3-14A	Modify existing intersection	\$ 215,700	50%	\$ 107,850
M.M. 3.3-14B	Modify existing intersection	\$ 379,600	50%	\$ 189,800
M.M. 3.3-14C	Modify existing intersection	\$ 252,900	21%	\$ 53,109
M.M. 3.3-14D	Modify existing intersection	\$ 252,900	12%	\$ 30,348
M.M. 3.3-15A	Modify existing intersection	\$ 310,500	50%	\$ 155,250
M.M. 3.3-15B	Modify existing intersection	\$ 401,000	16%	\$ 64,160
M.M. 3.3-15C	Same as Mitigation Measure 3.3-7D	\$ -	12%	\$ -
M.M. 3.3-15D	Modify existing intersection	\$ 22,300	12%	\$ 2,676
M.M. 3.3-15E	Modify existing intersection	\$ 480,400	16%	\$ 76,864
M.M. 3.3-16	Same as Mitigation Measure 3.3-8(A-D)	\$ -	32%	\$ -
M.M. 3.3-19	Construct Frontage Road (just east of SR 99)	\$ 11,760,000	50%	\$ 5,880,000
Riego Road On-site Ultimate Buildout	Riego Road widen to eight lanes and six lanes	\$ 5,656,000	50%	\$ 2,828,000
Cumulative Cost		\$ 325,926,250		\$ 116,072,149

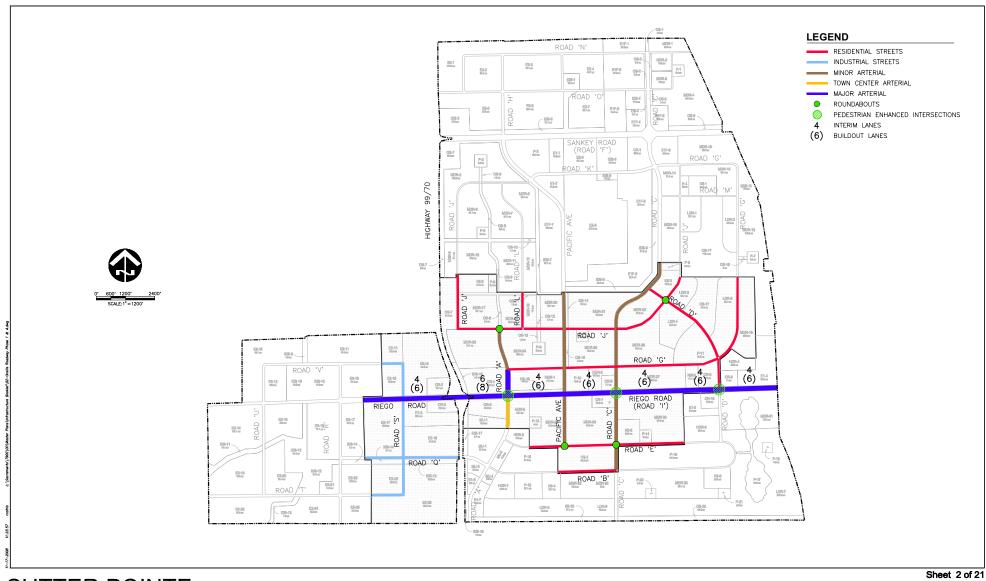
NOTES

OFF-SITE ROADWAYS

Sutter-Pointe Regional Transportation Improvements Sutter Pointe Specific Plan

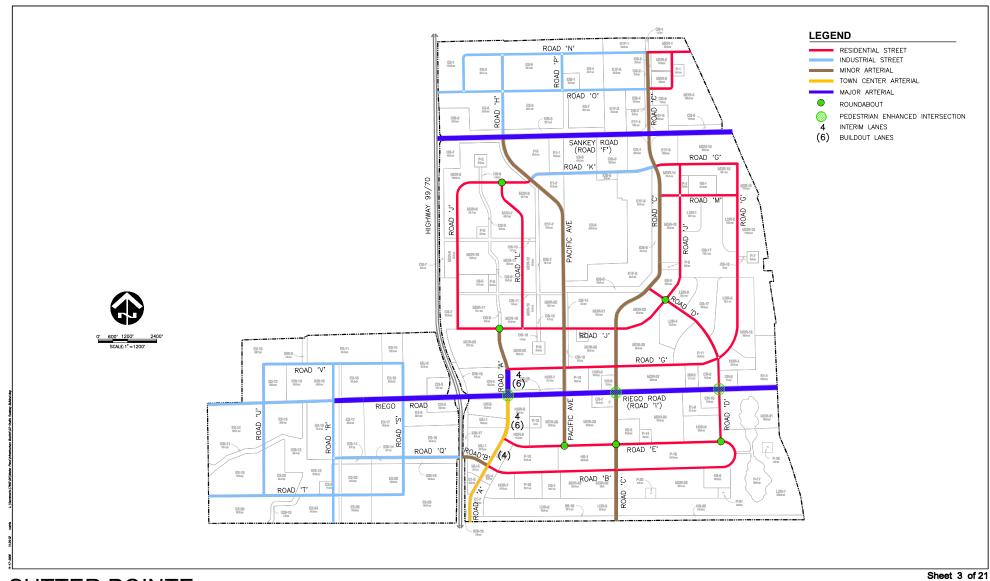
Sutter County, California

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 - b. Assessments for assessment, lighting & landscaping, GHAD, Mello Roos districts of the like
 - c. Reimbursable dry utilities costs. (Est. net costs after reimbursements are included in the estimate.)
 - d. Erosion Control and siltation costs
 - e. Postal pads and mail boxes
 - f. Land costs, right of way acquisition, entitlements, easements, and/or rights of entry. (unless listed)
 - g. Backflow Devices
 - h. Pole relocation or under grounding of existing overhead facilities
 - I. Fees due at building permit
 - Over excavation of unsuitable materials, undercutting, and/or landslide repair
 - k. Costs associated with high groundwater or inclement weather conditions
 - Costs associated with limitations on construction access
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 - o. Costs associated with Homeowner's Associations
 - p. Financing and overhead charges.
 - q. Costs associated with Endangered Species and Wildlife Conservation. (unless listed)
 - r. Cost associated with Corps of Engineer, Fish and Game, Fish and Wildlife and Wetlands (Permitting, Mitigation, and Preservation)
 - s. Costs associated with inclusionary zoning and low income housing
 - t. Toxic contamination evaluation studies or remediation
 - u. Archaeological studies, investigations or relocations
 - v. Costs associated with siltation basins
 - w. Bridges and associated design costs
 - x. Cost associated with traffic engineering studies.
 - y. Irrigation systems and associated design costs
 - z. CMU and/or rock retaining walls
 - aa. Cost associated with the design and construction of stormwater quality treatment units
 - bb. Emergency vehicle access
 - cc. Costs associated with tie-ins to existing utilities
 - dd. Architectural design and associated fees
 - ee. Detention facilities and associated maintenance costs
 - ff. Interior drainage inlets and pipes associated with courtyard and/or open space areas
 - gg. Bonds
- 3. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- Costs presented herein represent an opinion based on historical information. No provision has been made for inflation
- 5. Mitigation Measures were provided by FEHR & PEERS via spreadsheet dated 9/30/08.



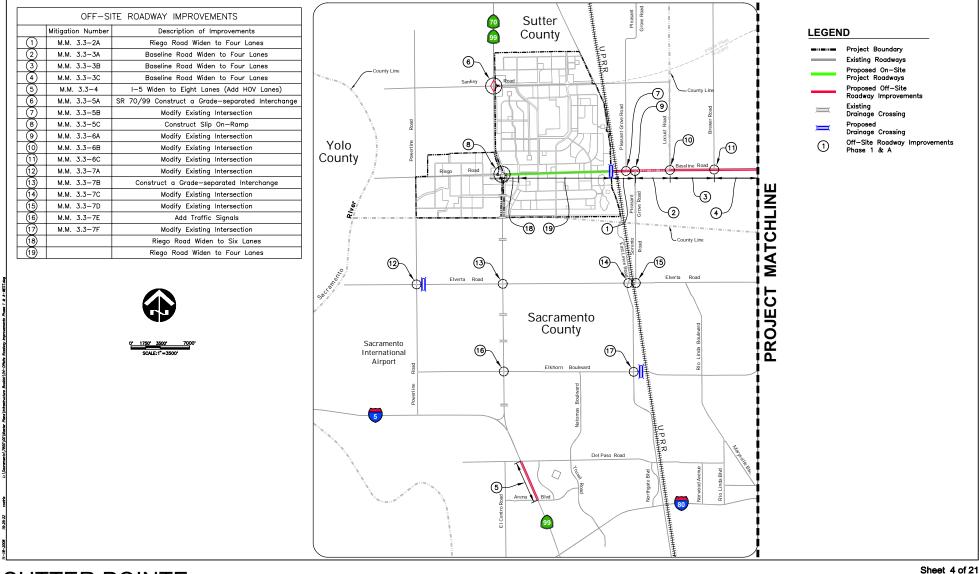
On-Site Roadway Plan - Phase 1 and A





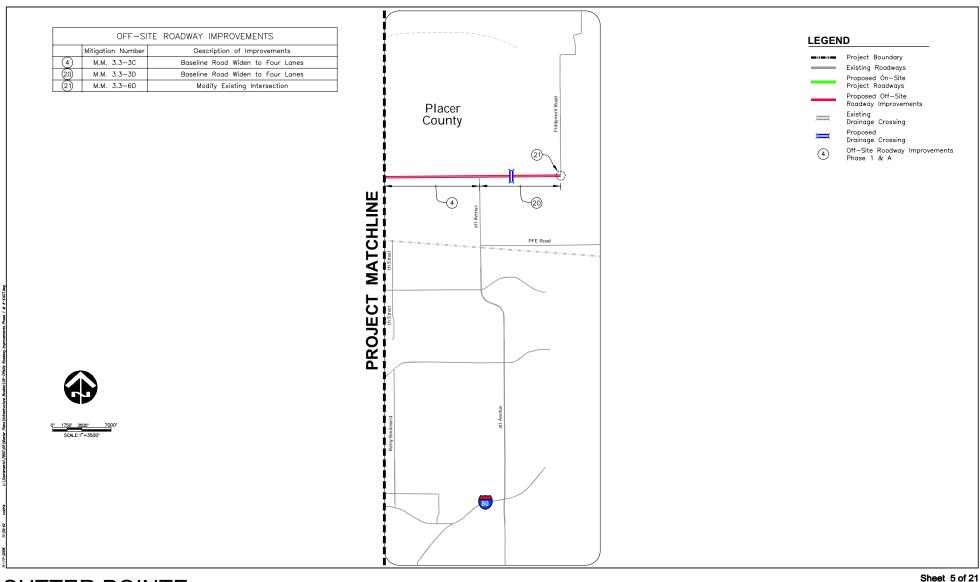
On-Site Roadway Plan - Buildout





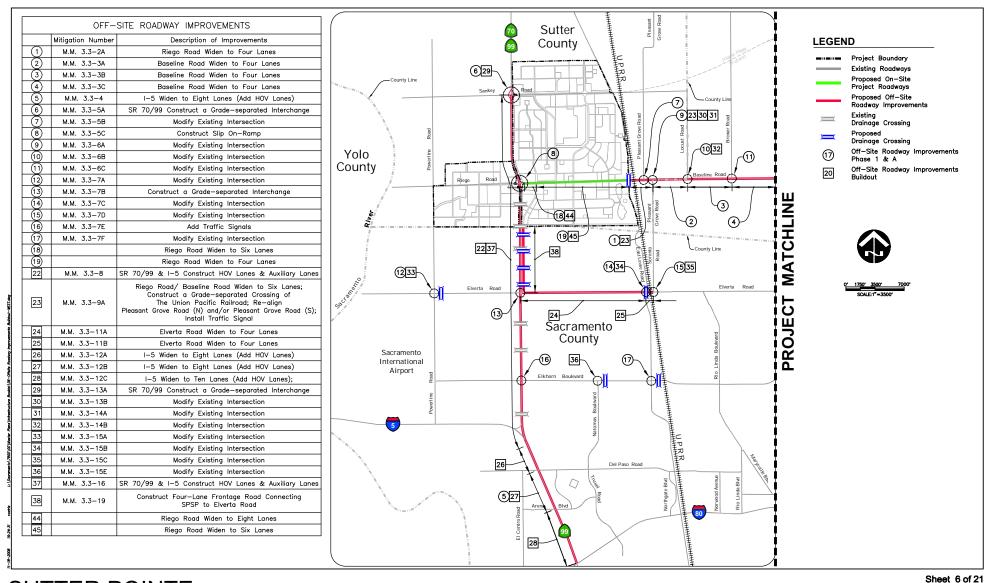
Off-Site Roadway Improvements Phase 1 & A (West)





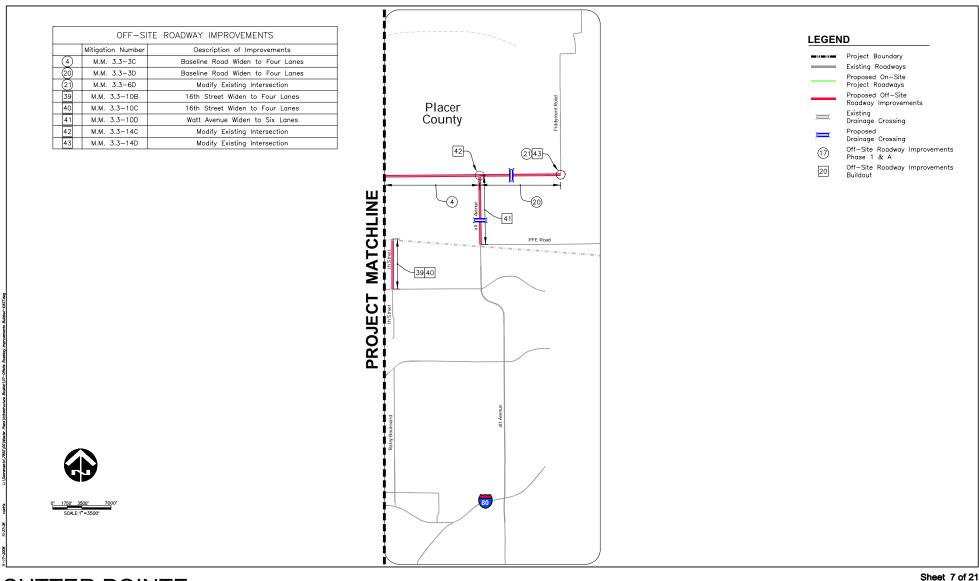
Off-Site Roadway Improvements Phase 1 & A (East)





Off-Site Roadway Improvements Buildout (West)





Off-Site Roadway Improvements Buildout (East)



PRELIMINARY COST ESTIMATE

Sewer Master Plan

SUTTER POINTE

Sutter County, California

November 14, 2008



PRELIMINARY COST ESTIMATE

Sutter Pointe - Sewer Master Plan Sutter County

Date: November 14, 2008

CONSTRUCTION COSTS		PHAS	SE 1	PHA	ASE A	РНА	ASE 2	PHA	ASE B	PHASE	3	PHA	ASE C	PHA	ASE 4	PHA	ASE D	тот	ſ AL
ITEM DESCRIPTION	UNIT PRICE UNIT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>
1.0 - ONSITE SEWER																			
COLLECTION SYSTEM 8" Sanitary Sewer	\$38.00 LF	21,500 LF	\$817,000	3,750 LF	\$142,500	8,400 LF	\$319,200	9,900 LF	\$376,200	6,800 LF	\$258,400	9,250 LF	\$351,500	5,950 LF	\$226,100	11,950 LF	\$454,100	77,500 LF	\$2,945,000
2. 10" Sanitary Sewer	\$42.00 LF	2,500 LF	\$105,000	5,500 LF	\$231,000	750 LF	\$31,500	2,350 LF	\$98,700	1,600 LF	\$67,200	2,150 LF	\$90,300	3,500 LF	\$147,000	6,800 LF	\$285,600	25,150 LF	\$1,056,300
3. 12" Sanitary Sewer	\$57.00 LF	3,850 LF	\$219,450	0 LF	\$0	4,700 LF	\$267,900	950 LF	\$54,150	0 LF	\$0	2,300 LF	\$131,100	4,200 LF	\$239,400	0 LF	\$0	16,000 LF	\$912,000
4. 15" Sanitary Sewer	\$90.00 LF	7,500 LF	\$675,000	3,400 LF	\$306,000	0 LF	\$0	3,250 LF	\$292,500	350 LF	\$31,500	0 LF	\$0	600 LF	\$54,000	1,000 LF	\$90,000	16,100 LF	\$1,449,000
5. 18" Sanitary Sewer	\$120.00 LF	5,000 LF	\$600,000	1,250 LF	\$150,000	1,100 LF	\$132,000	350 LF	\$42,000	2,500 LF	\$300,000	650 LF	\$78,000	50 LF	\$6,000	150 LF	\$18,000	11,050 LF	\$1,326,000
6. 21" Sanitary Sewer	\$158.00 LF	1,800 LF	\$284,400	2,900 LF	\$458,200	3,850 LF	\$608,300	400 LF	\$63,200	4,150 LF	\$655,700	1,400 LF	\$221,200	0 LF	\$0	0 LF	\$0	14,500 LF	\$2,291,000
7. 24" Sanitary Sewer	\$188.00 LF	3,550 LF	\$667,400	0 LF	\$0	950 LF	\$178,600	350 LF	\$65,800	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	4,850 LF	\$911,800
8. 27" Sanitary Sewer	\$230.00 LF	14,900 LF	\$3,427,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	14,900 LF	\$3,427,000
9. 30" Sanitary Sewer	\$282.00 LF	2,400 LF	\$676,800	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	2,400 LF	\$676,800
10. 36" Sanitary Sewer	\$375.00 LF	2,550 LF	\$956,250	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	2,550 LF	\$956,250
11. 48" Sanitary Sewer	\$510.00 LF	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0
12. 48" SSMH (min. 400' spacing)	\$6,650.00 EA	101 EA	\$670,819	35 EA	\$231,088	37 EA	\$248,544	42 EA	\$279,300	28 EA	\$187,031	36 EA	\$238,569	36 EA	\$237,738	50 EA	\$330,838	365 EA	\$2,423,925
13. 60" SSMH (min. 400' Spacing)	\$13,650.00 EA	13 EA	\$182,569	7 EA	\$98,963	12 EA	\$163,800	2 EA	\$25,594	10 EA	\$141,619	4 EA	\$47,775	0 EA	\$0	0 EA	\$0	48 EA	\$660,319
14. 72" SSMH (min. 400' Spacing)	\$15,750.00 EA	12 EA	\$194,906	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	12 EA	\$194,906
15. 48" Reception SSMH	\$7,000.00 EA	2 EA	\$14,000	1 EA	\$7,000	0 EA	\$0	1 EA	\$7,000	1 EA	\$7,000	1 EA	\$7,000	0 EA	\$0	0 EA	\$0	6 EA	\$42,000
16. 60" Reception SSMH	\$14,000.00 EA	3 EA	\$42,000	0 EA	\$0	1 EA	\$14,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	4 EA	\$56,000
17. Dewater Trench	\$10.00 LF	65,550 LF	\$655,500	16,800 LF	\$168,000	19,750 LF	\$197,500	17,550 LF	\$175,500	15,400 LF	\$154,000	15,750 LF	\$157,500	14,300 LF	\$143,000	19,900 LF	\$199,000	185,000 LF	\$1,850,000
TOTAL COLLE	ECTION SYSTEM		\$10,188,094		\$1,792,750		\$2,161,344		\$1,479,944		\$1,802,450		\$1,322,944		\$1,053,238		\$1,377,538		\$21,178,300
1.B PUMP STATIONS 1. Sewer Pump Station A - Phase C (1.2 mgd - PWWF)	\$1,100,000.00 mgd/EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$1,320,000	0 EA	\$0	0 EA	\$0	1 EA	\$1,320,000
2. Sewer Pump Station B - Phase A (3.5 mgd - PWWF)	\$900,000.00 mgd/EA	0 EA	\$0	1 EA	\$3,150,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$3,150,000
3. Sewer Pump Station C - Phase C (1.1 mgd - PWWF)	\$1,100,000.00 mgd/EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$1,210,000	0 EA	\$0	0 EA	\$0	1 EA	\$1,210,000
4. Sewer Pump Station D - Phase A (6.7 mgd - PWWF)	\$900,000.00 mgd/EA	0 EA	\$0	1 EA	\$6,030,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$6,030,000
5. Sewer Pump Station E - Phase D (2.3 mgd - PWWF)	\$1,100,000.00 mgd/EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$2,530,000	1 EA	\$2,530,000
6. Sewer Pump Station F - Phase C (2.2 mgd - PWWF)	\$1,100,000.00 mgd/EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$2,420,000	0 EA	\$0	0 EA	\$0	1 EA	\$2,420,000
7. Sewer Pump Station G - Phase 1 (5.6 mgd - PWWF)	\$900,000.00 mgd/EA	1 EA	\$5,040,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$5,040,000
8. Sewer Pump Station H - Phase 1 (6.2 mgd - PWWF)	\$900,000.00 mgd/EA	1 EA	\$5,580,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$5,580,000
9. Sewer Pump Station I - Phase 2 (3.4 mgd - PWWF)	\$900,000.00 mgd/EA	1 EA	\$3,060,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$3,060,000
10. Sewer Pump Station J - Phase 2 (1.7 mgd - PWWF)	\$1,100,000.00 mgd/EA	1 EA	\$1,870,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$1,870,000
11. Central Pump Station - Phase 1 (27.0 mgd - PWWF)	\$750,000.00 mgd/EA	1 EA _	\$20,250,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA _	\$20,250,000
TOTAL F	PUMP STATIONS		\$35,800,000		\$9,180,000		\$0		\$0		\$0		\$4,950,000		\$0		\$2,530,000		\$52,460,000

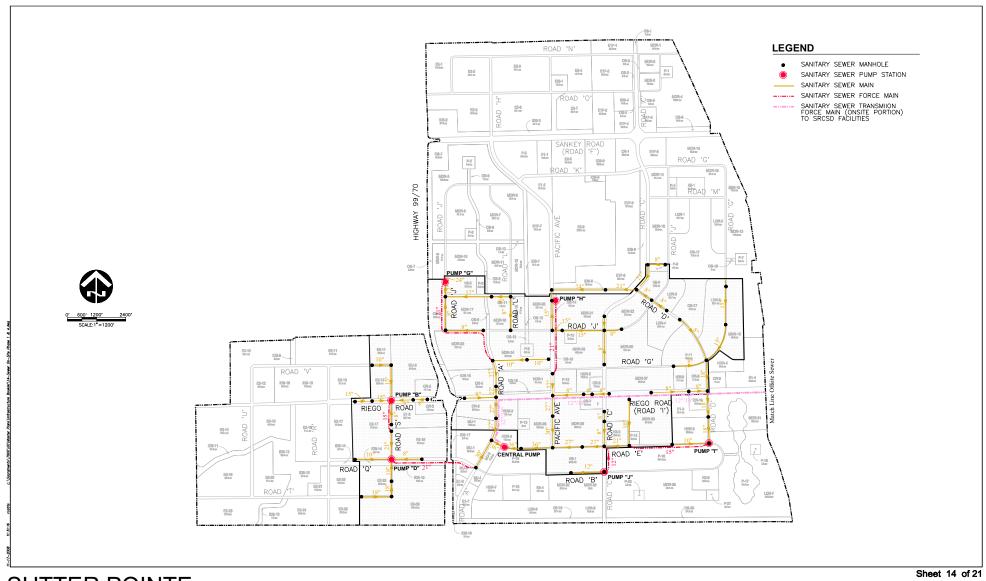
CONSTRUCTION COSTS	_	PHAS	SE 1	PHA	SE A	PH	IASE 2	PHA	ASE B	PHAS	SE 3	PH	ASE C	PHA	ASE 4	PHA	ASE D	то	TAL
ITEM DESCRIPTION	UNIT PRICE UNIT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u> AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>
1.C ONSITE FORCE MAINS 1 8" Force Main	\$80.00 LF	0 LF	\$0	0 LF	\$0	0 LF	\$0	350 LF	\$28,000	0 LF	\$0	LF	\$0	0 LF	\$0	0 LF	\$0	350 LF	\$28,000
2 10" Force Main	\$100.00 LF	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	1,950 LF	\$195,000	0 LF	\$0	0 LF	\$0	1,950 LF	\$195,000
3 12" Force Main	\$120.00 LF	1,100 LF	\$132,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	1,100 LF	\$132,000
4 15" Force Main	\$150.00 LF	3,300 LF	\$495,000	1250 LF	\$187,500	0 LF	\$0	0 LF	\$0	0 LF	\$0	2,650 LF	\$397,500	0 LF	\$0	2050 LF	\$307,500	9,250 LF	\$1,387,500
5 21" Force Main	\$270.00 LF	11,600 LF	\$3,132,000	2450 LF	\$661,500	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	14,050 LF	\$3,793,500
6 8" Line Isolation Valve	\$1,800.00 EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$1,800	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$1,800
7 10" Line Isolation Valve	\$2,000.00 EA	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$2,000	0 EA	\$0	0 EA	\$0	1 EA	\$2,000
8 12" Line Isolation Valve	\$2,200.00 EA	0 EA	\$0	0 EA	\$0	1 EA	\$2,200	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$2,200
9 15" Line Isolation Valve	\$3,200.00 EA	0 EA	\$0	1 EA	\$3,200	1 EA	\$3,200	0 EA	\$0	0 EA	\$0	1 EA	\$3,200	0 EA	\$0	1 EA	\$3,200	4 EA	\$12,800
10 21" Line Isolation Valve	\$4,500.00 EA	3 EA	\$13,500	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	3 EA	\$13,500
11 6" Air/Vac Assembly (inc. precast vault)	\$10,000.00 EA	17 EA	\$170,000	11 EA	\$110,000	7 EA	\$70,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	35 EA	\$350,000
12 2" Air/Vac Assembly	\$2,500.00 EA	0 EA	\$0	0 EA	\$0	1 EA	\$2,500	1 EA	\$2,500	0 EA	\$0	5 EA	\$12,500	0 EA	\$0	2 EA	\$5,000	9 EA	\$22,500
13 Dewater Trench	\$35.00 LF	16,000 LF	\$560,000	3700 LF	\$129,500	0 LF	\$0	350 LF	\$12,250	0 LF	\$0	4600 LF	\$161,000	0 LF	\$0	2050 LF	\$71,750	26,700 LF	\$934,500
	TOTAL FORCE MAIN		\$4,502,500		\$1,091,700		\$77,900		\$44,550		\$0		\$771,200		\$0	1	\$387,450		\$6,875,300
1.D BORE AND JACK 1. Bore and Jack under HWY 99/70 (42" Casing)	\$1,300.00 LF	600 LF	\$780,000	LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	600 LF	\$780,000
тот	AL BORE AND JACK		\$780,000		\$0		\$0		\$0		\$0		\$0		\$0	1	\$0		\$780,000
2.0 - OFFSITE SEWER																			
A. SUTTER POINTE INTERCEPTOR (LINE 'A')																			
1. Parallel Forcemain (1-12", 1-18")	\$345.00 LF	46,600 LF	\$11,500,000	INC. LS	INC.	0 LF	\$0 I	NC. LF	INC.	0 LF	\$0	INC. LF	INC.	0 LF	\$0	INC,. LF	INC.	1 LF	\$11,500,000
(Forcemains - Open cut inside roadway) 2. 24" Forcemain	\$400.00 LF	0 LF	\$0	INC. LS	INC.	0 LF	\$0 I	NC. LF	INC.	46,600 LF	\$19,400,000	INC. LF	INC.	0 LF	\$0	INC. LF	INC.	46,600 LF	\$19,400,000
Pipe Bore and Jack (24" casing for 12" pipe)	\$750.00 LF	550 LF	\$412,500	INC. LS	INC.	0 LF	\$0 I	NC. LF	INC.	0 LF	\$0	INC. LF	INC.	0 LF	\$0	LF LF	INC.	550 LF	\$412,500
4. Pipe Bore and Jack (30" Casing for 18" pipe)	\$950.00 LF	550 LF	\$522,500	INC. LS	INC.	0 LF	\$0 I	NC. LF	INC.	0 LF	\$0	INC. LF	INC.	0 LF	\$0	LF LF	INC.	550 LF	\$522,500
5. Pipe Bore and Jack (36" Casing for 24" pipe)	\$1,100.00 LF	0 LF	\$0	INC. LS	INC.	0 LF	\$0 I	NC. LF	INC.	550 LF	\$605,000	INC. LF	INC.	0 LF	\$0	LF LF	INC.	550 LF	\$605,000
6. SS Monitoring Station	\$250,000.00 LS	1 LS	\$250,000	INC. LS	INC.	0 LS	\$0 I	NC. LS	INC.	0 LS	\$0	INC. LS	INC.	0 LS	\$0	INC. LS	INC.	1 LS	\$250,000
7. Storage (3.9 MG)	\$15,600,000.00 LS	0 LS	\$0	INC. LS	INC.	1 LS	\$15,600,000 I	NC. LS	INC.	0 LS	\$0	INC. LS	INC.	0 LS	\$0	INC. LS	INC.	1 LS	\$15,600,000
TOTAL SUTTER POINTE INTE	ERCEPTOR (LINE 'A')		\$12,685,000		INC.		\$15,600,000		INC.		\$20,005,000	ı	INC.		\$0)	INC.		\$48,290,000

CONSTRUCTION COSTS		PHAS	SE 1	PHA	ISE A	PHA	ASE 2	PH	ASE B		PHASE 3		PHA	SE C	PHA	ASE 4	PHA	SE D	тот	⁻ AL
ITEM DESCRIPTION	UNIT PRICE UNIT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	<u>QTY</u>	<u>UNIT</u>	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>
CONSTRUCTION COST EST	TIMATE SUMMARY																			
1.0 - ONSITE SEWER																				
A. COLLECTION SYSTEM			\$10,188,094		\$1,792,750		\$2,161,344		\$1,479,944			\$1,802,450		\$1,322,944		\$1,053,238		\$1,377,538		\$21,178,300
B. PUMP STATIONS			\$35,800,000		\$9,180,000		\$0		\$0			\$0		\$4,950,000		\$0		\$2,530,000		\$52,460,000
C. FORCE MAIN			\$4,502,500		\$1,091,700		\$77,900		\$44,550			\$0		\$771,200		\$0		\$387,450		\$6,875,300
E. BORE AND JACK			\$780,000		\$0		\$0		\$0			\$0		\$0		\$0		\$0		\$780,000
2.0 - OFFSITE SEWER																				
A. SUTTER POINTE INTERCEPTOR (LINE	E 'A')		\$12,685,000		INC.		\$15,600,000		INC.			\$20,005,000		INC.		\$0	ı	NC.		\$48,290,000
	Subtotal Construction Costs	-	\$63,955,594	-	\$12,064,450		\$17,839,244		\$1,524,494		_	\$21,807,450		\$7,044,144		\$1,053,238	. <u>-</u>	\$4,294,988	-	\$129,583,600
	15% Engineering/Inspection		\$9,593,339		\$1,809,668		\$2,675,887		\$228,674			\$3,271,118		\$1,056,622		\$157,986		\$644,248		\$19,437,540
	20% Contingency	-	\$12,791,119	_	\$2,412,890		\$3,567,849	ı	\$304,899		_	\$4,361,490		\$1,408,829		\$210,648		\$858,998	_	\$25,916,720
GRAND TO	OTAL CONSTRUCTION COST		\$86,340,052		\$16,287,008		\$24,082,979		\$2,058,067			\$29,440,058		\$9,509,594		\$1,421,871		\$5,798,233		\$174,937,860
CREDITS/FEES																				
3.0 SRCSD CONNECTION FEE																				
a. Residential Land Use	\$7,100.00 ESD	7,391 ESD	\$52,476,100	822 ESD	\$5,836,200	4,097 ESD	\$29,088,700	0 ESD	\$0	2,922 [ESD	\$20,746,200	0 ESD	\$0	2,993 ESD	\$21,250,300	0 ESD	\$0	18,225 ESD	\$129,397,500
b. Commercial/Industrial Land Use	\$7,100.00 ESD	611 ESD	\$4,338,100	2,680 ESD	\$19,028,000	0 ESD	\$0	4,624 ESD	\$32,830,400	565 I	ESD	\$4,011,500	3,734 ESD	\$26,511,400	553 ESD	\$3,926,300	3,727 ESD	\$26,461,700	16,494 ESD	\$117,107,400
c. Public Facilities	\$7,100.00 ESD	792 ESD _	\$5,623,200	0 ESD	\$0	308 ESD	\$2,186,800	0 ESD	\$0	185 I	ESD _	\$1,313,500	0 ESD	\$0	176 ESD	\$1,249,600	0 ESD _	\$0	1,461 ESD _	\$10,373,100
	TOTAL SRCSD CONNECTION FEE		\$62,437,400		\$24,864,200		\$31,275,500		\$32,830,400			\$26,071,200		\$26,511,400		\$26,426,200		\$26,461,700		\$256,878,000

NOTES Sutter Pointe Sewer Master Plan

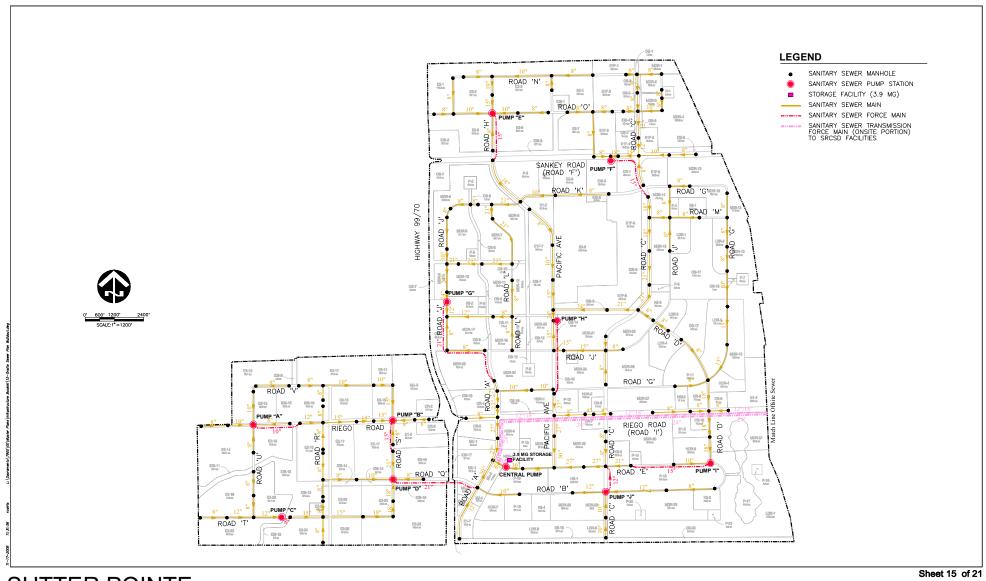
Sutter County, California

- 1. This estimate is prepared as a guide only and is subject to possible change. It has been prepared to a standard of accuracy which, to the best of our knowledge and judgment, is sufficient to satisfy our understanding of the purpose of this estimate. MacKay & Somps makes no warranty, either expressed or implied, as to the accuracy of this estimate.
- 2. This estimate is based on the March 21, 2008 Addendum to the Sutter Pointe Sewer Plan, prepared by Mackay and Somps. Minor adjustments were made to facilities within individual phases, subsequent to March, 2008.
- 3. Costs for PWWF storage attenuation are included in this estimate under Section 2 "Offsite Sewer". Storage requirements are currently being developed by Sacramento Regional County Sanitation District (SRCSD). Estimated storage cost per phase is estimated based on 25% of ADWF. (Source: HDR)
- 4. This estimate does not consider the following:
 - a. Cost associated with environmental (wetland) mitigations or biological surveys
 - b. Phased construction or out-of-regular-sequence construction
 - c. Costs associated with ground water or inclement weather conditions
 - d. Financial Charges
 - e. Bonds
 - v. Land costs, acquisition of right of way, easements, and/or rights of entry
 - w. Assessments from assessment, lighting & landscaping, Mello-Roos districts or the like
- 5. Costs presented herein represent an opinion based on historical information. No provision has been made for inflation.
- 6. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- 7. Interim improvements may be required depending on development timing of individual units.
- 8. SRCSD Connection Fees, shown in this estimate, are based on the latest CSD-1/SRCSD "Impact/Connection Fee" schedule. Commercial/Industrial and Public Facilities connection fees are assumed to be the same rate as single-family residential (\$7100/ESD) purposes of this estimate. A more detailed connection fee analysis for commercial users can be performed when specific "use categories" are determined within the Inustrial/Commercial regions.
- 9. Pump station costs are based on recent bid information for the Sacramento region, including public information provided by CSD-1. Pump station costs are intended to cover all expenses associated with sewer pump station as well as site work.
- 10. Costs for all "Offsite" Sewer improvements are from then Central Pump Station (CPS) to the Point of Connection (POC) to the Upp Northwest Interceptor-3 (Shown in Section 2).
- 11. Estimate assumes all "Onsite" sewer materials and construction methods conforming to the County of Sutter Department of Public Works Design Standards, dated November 2005.
- 12. Bore and jacking for "Offsite" Sanitary Sewer Force Main (SSFM) assumes 300 LF for the NEMDEC Channel Crossing and 250 LF for crossing additional small culverts and wetlands.
- 13. Intended route for "Offsite" SSFM 'Line A' is: Northerly from CPS to Riego Road, easterly on Riego Road to Pleasant Grove Road, Southly on Pleasant Grove to Rio Linda Blvd, Rio Linda Road becomes Elwyn Ave, then southly on 2nd Avenue, westerly on M Street and southerly on 6th Street to POC at Elkhorn Blvd. (Total length +/- 46,600 LF, within roadway).



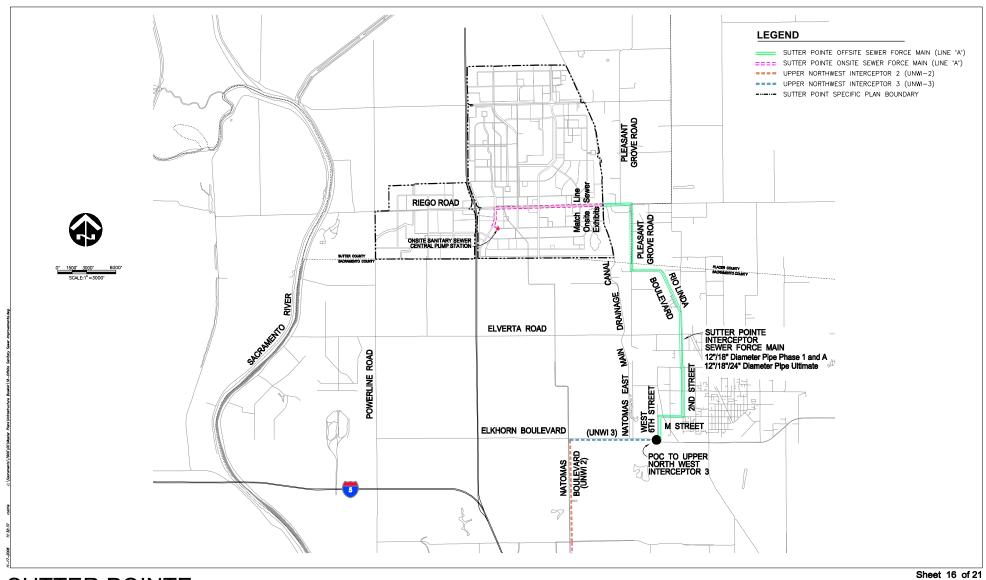
On-Site Sanitary Sewer Plan - Phase 1 and A





On-Site Sanitary Sewer Plan - Buildout





Off-Site Sanitary Sewer Improvements



PRELIMINARY COST ESTIMATE WATER MASTER PLAN

SUTTER POINTE

Sutter County, California

November 14, 2008



ENGINEER'S PRELIMINARY OPINION OF COSTS Sutter County

Based on the Sutter Pointe Water System Model for Proposed Water Supply Program (PWSP)

-																			
CONSTRUCTION COSTS (PWSP)		PHA	ASE 1	PHA	ASE A	PH	HASE 2	F	PHASE B	PH	HASE 3	PH	ASE C	PH	ASE 4	PH	ASE D	TO	TAL
ITEM DESCRIPTION	UNIT PRICE	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNI	T AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>
A. WATER TRANSMISSION																			
1. 12" T-Main incl. pipe and fittings, DIP	\$64.00	26,500 LF	\$1,696,000	11,000 LF	\$704,000	9,500 LF	\$608,000	6,800 LF	\$435,200	9,800 LF	\$627,200	0 LF	\$0	11,400 LF	\$729,600	21,400 LF	\$1,369,600	96,400 LF	\$6,169,600
1.a 12" T-Main (parallel on 4 lane ROW and larger)	\$94.00	26,500 LF	\$2,491,000	3,300 LF	\$310,200	6,000 LF	\$564,000	10,400	\$977,600	7,500 LF	\$705,000	5,700	\$535,800	9,000 LF	\$846,000	0 LF	\$0	68,400 LF	\$6,429,600
2. 18" T-Main incl. pipe and fittings, DIP	\$94.00	26,400 LF	\$2,481,600	5,200 LF	\$488,800	20,000 LF	\$1,880,000	9,900 LF	\$930,600	11,000 LF	\$1,034,000	15,000 LF	\$1,410,000	19,000 LF	\$1,786,000	0 LF	\$0	106,500 LF	\$10,011,000
3. 24" T-Main incl. pipe and fittings, DIP	\$135.00	4,400 LF	\$594,000	1,000 LF	\$135,000	0 LF	\$0	7,800 LF	\$1,053,000	0 LF	\$0	1,800 LF	\$243,000	0 LF	\$0	0 LF	\$0	15,000 LF	\$2,025,000
4. 30" T-Main incl. pipe and fittings, DIP	\$170.00	4,700 LF	\$799,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	4,700 LF	\$799,000
5. 36" T-Main incl. pipe and fittings, DIP	\$205.00	2,500 LF	\$512,500	2,200 LF	\$451,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	4,700 LF	\$963,500
6. 42" T-Main incl. pipe and fittings, DIP	\$240.00	5,400 LF	\$1,296,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	5,400 LF	\$1,296,000
7. 48" T-Main incl. pipe and fittings, DIP	\$275.00	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0
8. 12" Butterfly Valve Assembly	\$2,500.00	13 EA	\$32,500	8 EA	\$20,000	5 EA	\$12,500	3 EA	\$7,500	8 EA	\$20,000	0 EA	\$0	9 EA	\$22,500	14 EA	\$35,000	60 EA	\$150,000
9. 18" Butterfly Valve Assembly	\$4,000.00	13 EA	\$52,000	4 EA	\$16,000	12 EA	\$48,000	2 EA	\$8,000	9 EA	\$36,000	11 EA	\$44,000	11 EA	\$44,000	0 EA	\$0	62 EA	\$248,000
2. 24" Butterfly Valve Assembly	\$7,200.00	3 EA	\$21,600	2 EA	\$14,400	0 EA	\$0	3 EA	\$21,600	0 EA	\$0	1 EA	\$7,200	0 EA	\$0	0 EA	\$0	9 EA	\$64,800
3. 30" Line Valve	\$28,000.00	4 EA	\$112,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	4 EA	\$112,000
4. 36" Line Valve	\$35,000.00	2 EA	\$70,000	2 EA	\$70,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	4 EA	\$140,000
5. 42" Line Valve	\$40,000.00	2 EA	\$80,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	2 EA	\$80,000
6. 48" Line Valve	\$50,000.00	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0
7. Fire Hydrant Assembly (assumed 1000" spacing)	\$5,000.00	96 EA	\$482,000	23 EA	\$113,500	36 EA	\$177,500	35 EA	\$174,500	28 EA	\$141,500	23 EA	\$112,500	39 EA	\$197,000	21 EA	\$107,000	301 EA	\$1,505,500
8. Bore and Jack under HWY 99/70 (54" Casing)	\$1,000.00	600 LF	\$600,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	600 LF	\$600,000
9. Bore and Jack under HWY 99/70 (24" Casing)	\$500.00	600 LF	\$300,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	600 LF _	\$300,000
	TOTAL WATER TRANSMISSION		\$11,620,200		\$2,322,900		\$3,290,000		\$3,608,000		\$2,563,700		\$2,352,500		\$3,625,100	1	\$1,511,600		\$30,894,000
B. WATER STORAGE TANKS																			
Treatment Plant Storage Tank (4MG) (Includes besets sums station and budgemetic took)	\$5,000,000.00	0 EA	\$0	1 EA	\$5,000,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$5,000,000
(Includes booster pump station and hydromatic tank) 2. Storage Tank (6MG)	\$7,500,000.00	1 EA	\$7,500,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000
(Includes booster pump station and hydromatic tank) 3. Storage Tank (6MG)	\$7,500,000.00	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000
(Includes booster pump station and hydromatic tank) 4. Storage Tank (6MG)	\$7,500,000.00	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000
(Includes booster pump station and hydromatic tank) 5. Storage Tank (6MG)	\$7,500,000.00	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000	0 EA	\$0	1 EA	\$7,500,000
(Includes booster pump station and hydromatic tank) 6. Storage Tank (6MG)	\$7,500,000.00	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,500,000	1 EA _	\$7,500,000
(Includes booster pump station and hydromatic tank)	TOTAL WATER 0		A7 500		AF 000 555		47 500 555		AT FOR						AT FOR		AT FOR		0.40 F00 CCC
-	TOTAL WATER STORAGE		\$7,500,000		\$5,000,000		\$7,500,000		\$7,500,000		\$0		\$0		\$7,500,000	1	\$7,500,000		\$42,500,000

CONSTRUCTION COSTS (PWSP	P)	PH.	ASE 1	PI	HASE A	PHA	ASE 2	Pŀ	HASE B	РНА	.SE 3	PHASE C	PHASE 4			PHASE D	то	TAL
ITEM DESCRIPTION	UNIT PRICE	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT AMOUNT	QTY UNIT AMOL	<u>JNT</u>	QTY UN	IIT AMOUNT	QTY UNIT	<u>AMOUNT</u>
C. SURFACE WATER TREATMENT PLANT																		
Surface Water Treatment Plant (29.3 mgd)	\$1,250,000.00	0 mgd	\$0	INC mgd	INC	14.7 mgd	\$18,375,000 IN	NC mgd	INC	14.6 mgd	\$18,250,000 II	NC mgd INC	0 mgd	\$0 IN	IC mgd	INC	29.3 mgd	\$36,625,000
	TOTAL SURFACE WATER TREATMENT PLANT		\$0		INC		\$18,375,000		INC		\$18,250,000	INC		\$0		INC		\$36,625,000
D. GROUND WATER TREATMENT PLANT																		
West Ground Water Treatment Plant (12.5 mgd	\$1,250,000.00	12.5 mgd	\$15,625,000	INC mgd	INC	0 mgd	\$0 11	NC mgd	INC	0 mgd	\$0 II	NC mgd INC	0 mgd	\$0 IN	IC mgd	I INC	12.5 mgd	\$15,625,000
2 East Ground Water Treatment Plant (12.5 mgd)	\$1,250,000.00	0 mgd	\$0	INC mgd	INC	12.5 mgd	\$15,625,000 IN	NC mgd	INC	0 mgd	\$0 __ II	NC mgd INC	0 mgd	\$0 IN	IC mgd	INC	12.5 mgd	\$15,625,000
	TOTAL GROUND WATER TREATMENT PLANT		\$15,625,000		INC		\$15,625,000		INC		\$0	INC		\$0		INC		\$31,250,000
E. GROUND WATER WELL FIELDS																		
E.1 - EAST WELL AND PUMP FACILITY																		
1. Well & Pump Facility	\$1,000,000.00	0 EA	\$0	0 EA		7 EA	\$7,000,000	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		7 EA	\$7,000,000
2. 12" Raw Water incl. Fittings, DIP	\$85.00	0 LF	\$0	0 LF		10,100 LF	\$858,500	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		10,100 LF	\$858,500
3. 16" Raw Water incl. Fittings, DIP	\$120.00	0 LF	\$0	0 LF		3,500 LF	\$420,000	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		3,500 LF	\$420,000
4. 21" Raw Water incl. Fittings, DIP	\$160.00	0 LF	\$0	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		0 LF	\$0
5. 24" Raw Water incl. Fittings, DIP	\$180.00	0 LF	\$0	0 LF		3,400 LF	\$612,000	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		3,400 LF	\$612,000
6. 30" Raw Water incl. Fittings, DIP	\$225.00	0 LF	\$0	0 LF		3,300 LF	\$742,500	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		3,300 LF	\$742,500
7. 36" Raw Water incl. Fittings, DIP	\$270.00	0 LF	\$0	0 LF		7,500 LF	\$2,025,000	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		7,500 LF	\$2,025,000
8. 12" Butterfly Valve Assembly	\$2,500.00	0 EA	\$0	0 EA		1 EA	\$2,500	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		1 EA	\$2,500
9. 16" Butterfly Valve Assembly	\$3,500.00	0 EA	\$0	0 EA		2 EA	\$7,000	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		2 EA	\$7,000
10. 21" Butterfly Valve Assembly	\$4,600.00	0 EA	\$0	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		0 EA	\$0
11. 24" Butterfly Valve Assembly	\$7,300.00	0 EA	\$0	0 EA		4 EA	\$29,200	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		4 EA	\$29,200
12. 30" Butterfly Valve Assembly	\$14,000.00	0 EA	\$0	0 EA		1 EA	\$14,000	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		1 EA	\$14,000
13. 36" Butterfly Valve Assembly	\$17,000.00 SUBTOTAL EAST WELL AND PUMP FACILITY	0 EA	\$0 \$0		INC	1 EA _	\$17,000 \$11,727,700	0 EA	INC	0 EA _	\$0 \$0	0 EA	0 EA	\$0 \$0	0 EA	INC.	_ 1 EA _	\$17,000 \$11,727,700
E.2- WEST WELL AND PUMP FACILITY			**				***,****				**			••				***,*=*,***
2. Well & Pump Facility	\$1,000,000.00	9 EA	\$9,000,000	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		9 EA	\$9,000,000
3. 12" Raw Water incl. Fittings, DIP	\$85.00	14,850 LF	\$1,262,250	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		14,850 LF	\$1,262,250
4. 16" Raw Water incl. Fittings, DIP	\$120.00	4,500 LF	\$540,000	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		4,500 LF	\$540,000
5. 21" Raw Water incl. Fittings, DIP	\$160.00	6,300 LF	\$1,008,000	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		6,300 LF	\$1,008,000
6. 24" Raw Water incl. Fittings, DIP	\$180.00	5,850 LF	\$1,053,000	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		5,850 LF	\$1,053,000
7. 30" Raw Water incl. Fittings, DIP	\$225.00	0 LF	\$0	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		0 LF	\$0
8. 36" Raw Water incl. Fittings, DIP	\$270.00	0 LF	\$0	0 LF		0 LF	\$0	0 LF		0 LF	\$0	0 LF	0 LF	\$0	0 LF		0 LF	\$0
9. 12" Butterfly Valve Assembly	\$2,500.00	5 EA	\$12,500	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		5 EA	\$12,500
10. 16" Butterfly Valve Assembly	\$3,500.00	1 EA	\$3,500	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		1 EA	\$3,500
11. 21" Butterfly Valve Assembly	\$4,600.00	1 EA	\$4,600	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		1 EA	\$4,600
12. 24" Butterfly Valve Assembly	\$7,300.00	1 EA	\$7,300	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		1 EA	\$7,300
13. 30" Butterfly Valve Assembly	\$14,000.00	0 EA	\$0	0 EA		0 EA	\$0	0 EA		0 EA	\$0	0 EA	0 EA	\$0	0 EA		0 EA	\$0
14. 36" Butterfly Valve Assembly	\$17,000.00 SUBTOTAL WEST WELL AND PUMP FACILITY	0 EA	\$0 \$12,891,150		INC.	0 EA _	\$0 \$0	0 EA	INC.	0 EA _	\$0 \$0	0 EA INC.	0 EA	\$0 \$0	0 EA	INC.	0 EA	\$0 \$12,891,150
	TOTAL GROUND WATER WELL FIELDS		\$12,891,150		INC.		\$11,727,700		INC.		\$0	INC.		\$0		INC.		\$24,618,850

CONSTRUCTION COSTS (PWSP)		РН	ASE 1	PH	ASE A	PH	IASE 2	PH/	ASE B	PH	ASE 3	PH	ASE C	PH	IASE 4	P	HASE D		TOTAL	
ITEM No.	UNIT PRICE	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	<u>QTY</u> <u>UNIT</u>	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNI	<u> AMOUNT</u>	QTY UNI	<u> AMOUNT</u>	
F. RAW WATER PUMP STATION																				
Raw Water Booster Pump Station (Bennet or Sankey)	\$2,200,000.00	0 EA	\$0	0 EA	\$0	1 EA	\$2,200,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$2,200,000	_
Raw Water Diversoin Facility (Fair Share Cost)	\$7,278,078.00	0 EA	\$0	0 EA	\$0	1 EA	\$7,278,078	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$7,278,078	-
TOTAL RAW W	VATER PUMP STATION		\$0		\$0		\$9,478,078		\$0		\$0)	\$0		\$(0	\$0		\$9,478,078	-
G. SURFACE RAW-WATER SUPPLY (BENNET TO WEST TREATMENT SITE)																				
1. 42" Steel Cylinder Pipe (CMCL, D.I.P. or Equal) incl. fittings	\$350.00	0 LF	\$0	0 LF	\$0	29,500 LF	\$10,325,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 0 LF	\$0	29,500 LF	\$10,325,000	
2. 42" Line Valves	\$60,000.00	0 EA	\$0	0 EA	\$0	6 EA	\$360,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	6 EA	\$360,000	=
TOTAL SURFACE	RAW-WATER SUPPLY		\$0		\$0		\$10,685,000		\$0		\$0)	\$0		\$0	0	\$0		\$10,685,000	
G. (ALT-1) SURFACE RAW-WATER SUPPLY (SANKEY TO WEST TREATMENT	SITE)																			
1.A 42" Steel Cylinder Pipe (CMCL, D.I.P., or Equal) incl. fittings	\$350.00	0 LF	\$0	0 LF	\$0	27,200 LF	\$9,520,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 0 LF	\$0	27,200 LF	\$9,520,000	
2.A 42" Line Valves	\$60,000.00	0 EA	\$0	0 EA	\$0	6 EA	\$360,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	6 EA	\$360,000	•
TOTAL (ALT-1) SURFACE	RAW-WATER SUPPLY		\$0		\$0		\$9,880,000		\$0		\$0)	\$0		\$0	0	\$0		(ALT-1)	\$9
G. (ALT-2) SURFACE RAW-WATER SUPPLY (BENNET TO EAST TREATMENT	SITE)																			
1.B 42" Steel Cylinder Pipe (CMCL, D.I.P., or Equal) incl. fittings	\$350.00	0 LF	\$0	0 LF	\$0	28,500 LF	\$9,975,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 0 LF	\$0	28,500 LF	\$9,975,000	
2.B 42" Line Valves	\$60,000.00	0 EA	\$0	0 EA	\$0	6 EA	\$360,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 0 EA	\$0	6 EA	\$360,000	
3.B Bore and Jack under HWY 99/70 (60" Casing)	\$1,100.00	0 LF	\$0	0 LF	\$0	600 LF	\$660,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	600 LF	\$660,000	
TOTAL (ALT-2) SURFACE	RAW-WATER SUPPLY		\$0		\$0		\$10,995,000		\$0		\$0)	\$0		\$0	0	\$0		(ALT-2)	\$10
G. (ALT-3) SURFACE RAW-WATER SUPPLY (SANKEY TO EAST TREATMEN	T SITE)																			
1.C 42" Steel Cylinder Pipe (CMCL) incl. fittings	\$400.00	0 LF	\$0	0 LF	\$0	26,100 LF	\$10,440,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 0 LF	\$0	26,100 LF	\$10,440,000	
2.C 42" Line Valves	\$80,000.00	0 EA	\$0	0 EA	\$0	6 EA	\$480,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 0 EA	\$0	6 EA	\$480,000	
3.C Bore and Jack under HWY 99/70 (60" Casing)	\$1,100.00	0 LF	\$0	0 LF	\$0	600 LF	\$660,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	600 LF	\$660,000	-
TOTAL (ALT-3) SURFACE	RAW-WATER SUPPLY		\$0		\$0		\$11,580,000		\$0		\$0)	\$0		\$(0	\$0		(ALT-3)	\$1

CONSTRUCTION COSTS (PWSP)	PHASE 1	PHASE A	PHASE 2	PHASE B	PHASE 3	PHASE C	PHASE 4	PHASE D	TOTAL
ITEM DESCRIPTION UNIT PRICE	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT	QTY UNIT AMOUNT
CONSTRUCTION COST ESTIMATE SUMMARY									
A. WATER TRANSMISSION	\$11,620,200	\$2,322,900	\$3,290,000	\$3,608,000	\$2,563,70	0 \$2,352,500	\$3,625,100	\$1,511,600	\$30,894,000
B. WATER STORAGE TANKS	\$7,500,000	\$5,000,000	\$7,500,000	\$7,500,000	\$	0 \$0	\$7,500,000	\$7,500,000	\$42,500,000
C. SURFACE WATER TREATMENT PLANT	\$0	INC	\$18,375,000) INC	\$18,250,00	0 INC	\$0	INC	\$36,625,000
D. GROUND WATER TREATMENT PLANT	\$15,625,000	INC	\$15,625,000) INC	\$	0 INC	\$0	INC	\$31,250,000
E. GROUND WATER WELL FIELD	\$12,891,150	INC.	\$11,727,700) INC.	\$	0 INC.	\$0	INC.	\$24,618,850
F. RAW WATER PUMP STATION	\$0	\$0	\$9,478,078	\$0	\$	0 \$0	\$0	\$0	\$9,478,078
G. SURFACE RAW-WATER SUPPLY	\$0	\$0	\$10,685,000	\$0	\$	0 \$0	\$0	\$0	\$10,685,000
Subtotal Construction Costs (A-G)	\$47,636,350	\$7,322,900	\$76,680,778	\$11,108,000	\$20,813,70	0 \$2,352,500	\$11,125,100	\$9,011,600	\$186,050,928
15% Engineering/Inspectior 20% Contingency	\$7,145,453 \$9,527,270		\$11,502,117 \$15,336,156				\$1,668,765 \$2,225,020		
GRAND TOTAL CONSTRUCTION COST	\$64,309,073	\$9,885,915	\$103,519,050	\$14,995,800	\$28,098,49	5 \$3,175,875	\$15,018,885	\$12,165,660	\$251,168,753

ALTERNATIVES FOR SURFACE RAW-WATER SUPPLY (Refer to section "G")

G. (ALT-1) SURFACE RAW-WATER SUPPLY (SANKEY TO WEST TRE (Adjust from Proposed Proposed Water Supply Project if used)	EATMENT SITE)
Proposed Surface Raw-Water Supply (Item 'G') Total	\$10,685,000

Proposed Surface Raw-Water Supply (Item 'G') Total	\$10,685,000
Alternative 1 Total	<u>\$9,880,000</u>
Difference From Proposed Surface Raw-Water Supply	(\$805,000)
15% Engineering/Inspectior	(\$120,750)
20% Contingency	(\$161,000)
Total Adjustment for Alt-1	(\$1.086.750)

G. (ALT-2) SURFACE RAW-WATER SUPPLY (BENNET TO EAST TREATMENT SITE) (Adjust from Proposed Proposed Water Supply Project if used)

Proposed Surface Raw-Water Supply (Item 'G') Total Alternative 2 Subtotal Difference From Proposed Surface Raw-Water Supply	\$10,685,000 <u>\$10,995,000</u> \$310,000
15% Engineering/Inspectior	\$46,500
20% Contingency	\$62,000
Total Adjustment for Alt-2	\$418,500

G. (ALT-3) SURFACE RAW-WATER SUPPLY (SANKEY TO EAST TREATMENT SITE) (Adjust from Proposed Proposed Water Supply Project if used)

Proposed Surface Raw-Water Supply (Item 'G') Total Alternative 3 Subtotal Difference From Proposed Surface Raw-Water Supply	\$10,685,000 <u>\$11,580,000</u> \$895,000
15% Engineering/Inspectior	\$134.250
20% Contingency	\$179,000
Total Adjustment for Alt-3	\$1,208,250

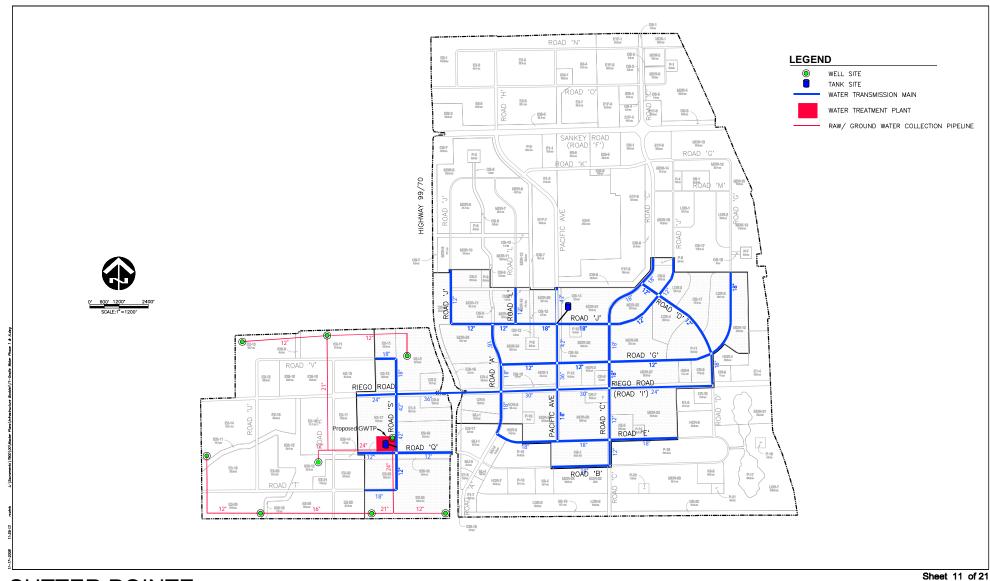
11/14/08

NOTES:

- 1. This estimate is prepared as a guide only and is subject to possible change. It has been prepared to a standard of accuracy which, to the best of our knowledge and judgment, is sufficient to satisfy our understanding of the purpose of this estimate. MacKay & Somps makes no warranty, either expressed or implied, as to the accuracy of this estimate.
- 2. This estimate assumes that the demands for the initial phases of developement will be served by groudwater sources. Surface water will then be brought on to meet the demands of the developement as the community builds out.
- 3. This estimate assumes the Sutter Pointe Specific Plan would be successful in converting a portion of their agricultural water rights to municipal and industrial uses for the Specific Plan Area.
- 4. This estimate assumes that the primary source for raw surface water will be from the Bennet Pumping Plant (BPP), and the alternate location would be NCMWC's proposed Sankey Water Diversion Project (SWDP). The developement costs include the turnout, booster pump and raw water transmission line as one line item, and an estimated fair share cost for a proposed diversion as another item (see fair share calculation at rear of estimate). Estimate assumes that fair share cost is the same whether Bennet, or Sankey Diversion option is chosen.
- 5. The proposed primary route for raw water transmission will be from the BPP then southerly to Sankey Road, easterly to Powerline Road, then southerly to Riego Road, easterly on Riego Road, and southerly to a to a proposed raw water treatment plant. Alternatively, a raw surface water treatment plant could be placed on the eastern portion of the project, whereas the alignment for raw surface water transmission would be from the BPP then southerly to Sankey Road, then easterly (crossing HWY 99) to within the project boundary and south easterly to a proposed raw water treatment site. Both alignment options can utilize a potential tie in to a possible booster pump from a Sankey Diversion Project, thereby reducing the transmission length by +/- 2,400 LF. The alternative costs are shown in the estimate and reflected as potential cost deductions.
- 6. This estimate does not include any fees by a retail water purveyor providing services in the South Sutter Specific Plan Area. This estimate does, however, include the full cost of the water system, and no fees or credits are applicable.
- 7. This estimate does not consider the following:
 - a. Cost associated with environmental (wetland) mitigations or biological surveys
 - b. Phased construction or out-of-regular-sequence construction
 - c. Costs associated with ground water or inclement weather conditions
 - d. Financial Charges
 - e. Bonds
 - f. Land costs, acquisition of right of way, easements, and/or rights of entry
 - Assessments from assessment, lighting & landscaping, Mello-Roos districts or the like
- 8. Costs presented herein represent an opinion based on historical information. No provision has been made for inflation.
- 9. Costs have been been tabulated and extracted for Phase as well as annual costs according the SPSP Conceptual Phasing Plan dated March, 2008.
- 10. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- 11. Interim improvements may be required depending on development timing of individual units.
- 12. This cost estimate is based only on the quantities as shown on the exhibits provided in the Sutter Pointe Specific Plan Water Master Plan Report, which includes backbone onsite and offsite utilities.
- 13. 4 Cost esimtates have been included for the 3 water supply scenarios options shown on the following page:

NOTES: 11/14/08

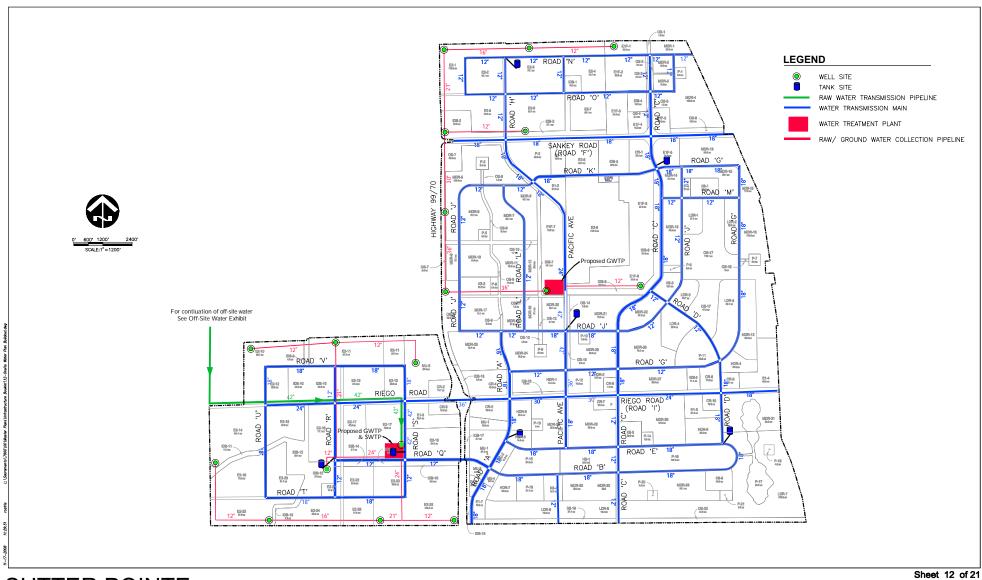
- 1. Proposed Water Supply Program: Includes both east and west well fields, and surface water treatment plant adjacent to the western ground water treatment plant. Proposed surface water transmission is from Bennet to West Treatment Plant site with a 42" transmission line sized for 29.3 MGD flows. Assumes ground water well and pump facilities will be completed in the initial phases.
- 2. Alt. "A" Revised Water Supply Program: Includes both east and west well fields, and surface water treatment plant adjacent to the western ground water treatment plant. Proposed surface water transmission is from Bennet to the West Treatment site with a 42" transmission line sized for 35.1 MGD flows. Assumed ground water well and pump facilities will be completed in the initial phases.
- 3. Alt "B" Winter Diversion Water Supply Program (West Well Field): Includes west well field, and surface water treatment plant adjacent to the western ground water treatment plant. Proposed surface water transmission is from Bennet to the West Treatment site with a 42" transmission line sized for 33.1 MGD flows.
- **4.** Alt "B" Winter Diversion Water Supply Program (East Well Field): Includes east well field, and surface water treatment plant adjacent to the eastern ground water treatment plant. Proposed surface water transmission is from Bennet to the EastTreatment site with a 42" transmission line sized for 33.1 MGD flows.



On-Site Water Plan - Phase 1 and A

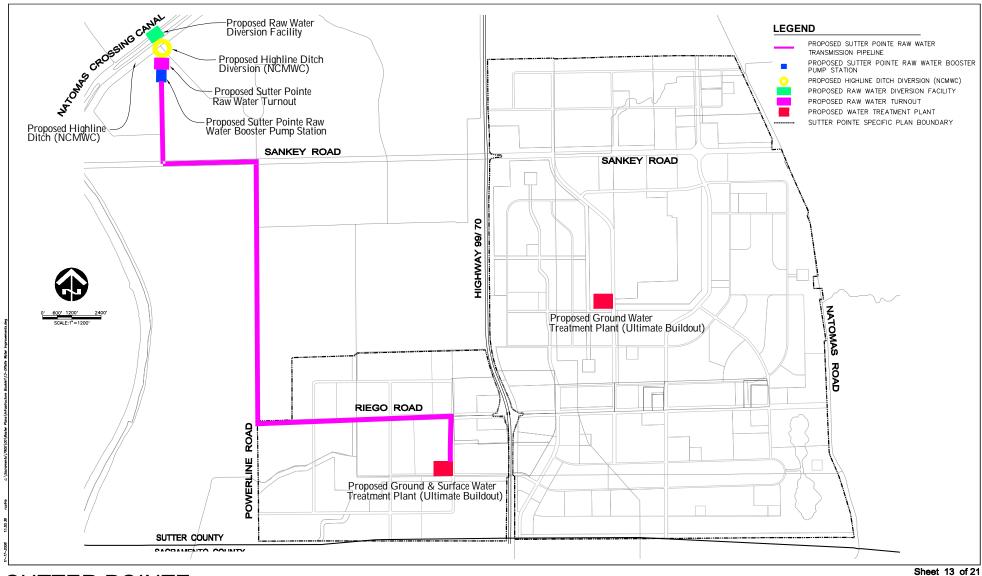
MEASURE "M" GROUP

MACKAY & SOMPS



On-Site Water Plan - Buildout





Off-Site Water Improvements



Sutter Pointe Specific Plan

DRAINAGE COST ESTIMATES

Sutter County, California

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SUMMARY

	Description	Total Cost, \$
1.	Drainage Shed 1 Facilities Subtotal (Table 12)	10,706,000
2.	Drainage Shed 2 Facilities Subtotal (Table 13)	4,425,000
3.	Drainage Shed 3 Facilities Subtotal (Table 14)	5,399,000
4.	Drainage Shed 4 Facilities Subtotal (Table 15)	9,783,000
5.	Drainage Shed 5 Facilities Subtotal (Table 16)	15,467,000
6.	Drainage Shed 6 Facilities Subtotal (Table 17)	19,695,000
7.	Drainage Shed 7 Facilities Subtotal (Table 18)	35,559,000
8.	Drainage Shed 8 Facilities Subtotal (Table 19)	7,023,000
9.	Drainage Shed 9 Facilities Subtotal (Table 20)	19,638,000
10.	Drainage Shed 10 Facilities Subtotal (Table 21)	5,663,000
11.	Drainage Shed 11 Facilities Subtotal (Table 22)	16,303,000
12.	Drainage Shed 12 Facilities Subtotal (Table 23)	14,923,000
13.	Regional Facilities Subtotal (Table 24)	49,625,000
	Subtotal - Drainage Facilities	214,209,000

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 1

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Drainage Shed 1 Facilities					
a. Water Quality/Detention	ı Basin				
· Excavate		422,387	cy	2.50	1,056,000
· Dewatering		30	ac	5,000.00	150,000
· Access Road (6" Ag	gregate Base)	7,800	sy	5.19	40,500
b. Pump Station					
· Pump Station		31	cfs	60,000.00	1,860,000
c. Open Channel					
· Excavate		42,400	cy	3.00	127,200
· Dewatering		4,972	lf	10.00	49,700
Access Road (6" Ag	gregate Base)	8,300	sy	5.19	43,100
- Fence, 6' Chainlink		9,944	lf	16.12	160,300
d. Road Crossings (Box C	ulverts)				
· Reinforced Concrete	2	456	cy	508.88	231,800
· Dewatering ¹		240	lf	0.00	0
Structural Excavation	on	3,010	cy	5.00	15,052
e. Storm Drainage Pipe Sy	stem				
· 36" Diameter Storm		1,500	lf	115.00	172,500
· 42" Diameter Storm	Drain	1,600	lf	160.00	256,000
· 48" Diameter Storm	Drain	1,000	lf	180.00	180,000
54" Diameter Storm	Drain	1,200	lf	195.00	234,000
· 60" Diameter Storm	Drain	2,700	lf	210.00	567,000
· 66" Diameter Storm	Drain	1,800	lf	230.00	414,000
· 72" Diameter Storm	Drain	3,700	lf	250.00	925,000
· Dewatering ¹		13,500	lf	0.00	0
· 60" Diameter Manh	ole	6	ea	4,000.00	24,000
· 72" Diameter Manh	ole	4	ea	5,000.00	20,000
Saddle Manhole		16	ea	8,000.00	128,000
	Detention Basin or Channel	8	ea	15,000.00	120,000
	ation (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
Subtotal - Shed 1 Drainage	Facilities				6,824,152
Land Acquisition	(000)	40	ac	37,500.00	1,493,700
Construction Contingencie					1,364,830
Administration, Engineerin	g, and Environmental (15%)				1,023,623
TOTAL SHED I DKAINAG	E FACILITIES COST				10,706,305

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 2

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 2 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	136,472	су	2.50	341,200
	Dewatering	9	ac	5,000.00	45,000
	· Access Road (6" Aggregate Base)	4,300	sy	5.19	22,300
b.	Pump Station				
	Pump Station	11	cfs	60,000.00	684,000
c.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	0	lf	115.00	0
	· 42" Diameter Storm Drain	500	lf	160.00	80,000
	· 48" Diameter Storm Drain	900	lf	180.00	162,000
	· 54" Diameter Storm Drain	0	lf	195.00	0
	· 60" Diameter Storm Drain	0	lf	210.00	0
	· 66" Diameter Storm Drain	0	lf	230.00	0
	· 72" Diameter Storm Drain	5,900	lf	250.00	1,475,000
	· Dewatering ¹	7,300	lf	0.00	0
	· 60" Diameter Manhole	1	ea	4,000.00	4,000
	· 72" Diameter Manhole	2	ea	5,000.00	10,000
	· Saddle Manhole	12	ea	8,000.00	96,000
	Outlet Structure at Detention Basin	3	ea	15,000.00	45,000
d.	Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				
	· 500-ft Fill Corridor (Approximate)	3800	<u>lf</u>	n/a	0
e.	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	29,645.00	29,600
	ubtotal - Shed 2 Drainage Facilities				2,994,100
	and Acquisition	10	ac	37,500.00	382,500
I C	onstruction Contingencies (20%)				598,820
	dministration, Engineering, and Environmental (15% CAL SHED 2 DRAINAGE FACILITIES COST				449,115
101	AL SHED 2 DRAINAGE FACILITIES COST				4,424,535

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 3

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
ge Shed 3 Facilities				
er Quality/Detention Basin				
Excavate	171,630	су	2.50	429,100
Dewatering	13	ac	5,000.00	65,000
Access Road (6" Aggregate Base)	5,100	sy	5.19	26,500
p Station				
Pump Station	15	cfs	60,000.00	924,000
m Drainage Pipe System				
36" Diameter Storm Drain	0	lf	115.00	0
12" Diameter Storm Drain	2,150	lf	160.00	344,000
48" Diameter Storm Drain	0	lf	180.00	0
54" Diameter Storm Drain	1,800	lf	195.00	351,000
50" Diameter Storm Drain	0	lf	210.00	0
66" Diameter Storm Drain	0	lf	230.00	0
72" Diameter Storm Drain	5,200	lf	250.00	1,300,000
Dewatering ¹	9,150	lf	0.00	0
50" Diameter Manhole	4	ea	4,000.00	16,000
72" Diameter Manhole	4	ea	5,000.00	20,000
	10	ea	8,000.00	80,000
	2	ea	- ,	30,000
	1	ls	35,856.00	35,900
			25 500 55	3,621,500
	14	ac	37,500.00	510,000
action Contingencies (20%)				724,300 543,225
				5,399,025
	Description ge Shed 3 Facilities er Quality/Detention Basin Excavate Dewatering Access Road (6" Aggregate Base) p Station Pump Station m Drainage Pipe System 36" Diameter Storm Drain 42" Diameter Storm Drain 48" Diameter Storm Drain 50" Diameter Storm Drain 72" Diameter Storm Drain Dewatering 50" Diameter Manhole 72" Diameter Manhole 72" Diameter Manhole 72" Diameter Manhole 72" Diameter Manhole 73" Diameter Manhole 74" Diameter Manhole 75" Diameter Storm Drain 75" Diameter Manhole 75" Diame	te Shed 3 Facilities er Quality/Detention Basin Excavate 171,630 Dewatering Access Road (6" Aggregate Base) Pump Station Pump Station Pump Station Pump Station 15 m Drainage Pipe System 36" Diameter Storm Drain 42" Diameter Storm Drain 48" Diameter Storm Drain 48" Diameter Storm Drain 50" Diameter Manhole	re Shed 3 Facilities er Quality/Detention Basin Excavate	ge Shed 3 Facilities er Quality/Detention Basin Excavate 171,630 cy 2.50 Dewatering 13 ac 5,000,00 Access Road (6" Aggregate Base) 5,100 sy 5.19 Pump Station 15 cfs 60,000.00 m Drainage Pipe System 15 cfs 60,000.00 m Drainage Storm Drain 15 cfs 60,000.00 m Drainage Storm Drain 17 cfs 180.00 m Drainage Storm Drain 180.00 m Drainage Storm Drain 180.00 m Drainage Facilities 180.00 m Drainage Facilities 190.00 m

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 4

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 4 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	400,220	cy	2.50	1,000,500
	· Dewatering	32	ac	5,000.00	160,000
	· Access Road (6" Aggregate Base)	8,500	sy	5.19	44,100
b.	Pump Station			***************************************	
	· Pump Station	30	cfs	60,000.00	1,800,000
c.	Open Channel				
	Excavate	21,590	cy	3.00	64,800
	· Dewatering	3,552	1f	10.00	35,500
	· Access Road (6" Aggregate Base)	5,920	sy	5.19	30,700
	- Fence. 6' Chainlink	7.104	lf	16.12	114.500
d.	<u></u>	7,104		10.12	114,300
u.	· Reinforced Concrete	48	OM	508.88	24,500
l	Dewatering	50	cy If	0.00	24,300
	Structural Excavation	237		5.00	1,185
-		237	cy	5.00	1,183
e.	36" Diameter Storm Drain		lf	115.00	
l		0	lf lf		0
-	42" Diameter Storm Drain 48" Diameter Storm Drain	3,450	lf	160.00 180.00	621,000
 	48 Diameter Storm Drain 54" Diameter Storm Drain	3,450	11 1f	195.00	621,000
	54 Diameter Storm Drain 60" Diameter Storm Drain	0	lf	210.00	0
	· 66" Diameter Storm Drain	0	lf	230.00	0
	· 72" Diameter Storm Drain	7,950	11 1f	250.00	1,987,500
	· Dewatering ¹	11,400	lf	0.00	0
	· 60" Diameter Manhole	0	ea	4,000.00	0
	· 72" Diameter Manhole	7	ea	5,000.00	35,000
	· Saddle Manhole	16	ea	8,000.00	128,000
	· Outlet Structure at Detention Basin or Channel	5	ea	15,000.00	75,000
f.	Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				
	· 500-ft Fill Corridor (Approximate)	8500	lf	n/a	0
	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
	ubtotal - Shed 4 Drainage Facilities				6,172,285
	and Acquisition	39	ac	37,500.00	1,450,000
C	onstruction Contingencies (20%)				1,234,457
A	dministration, Engineering, and Environmental (15% AL SHED 4 DRAINAGE FACILITIES COST				925,843
101	AL SHED 4 DKAINAGE FACILITIES COST				9,782,585

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 5

∴ 48" Diameter Storm Drain 500 lf 180.00 90,000 ∴ 54" Diameter Storm Drain 200 lf 195.00 39,000 ∴ 60" Diameter Storm Drain 600 lf 210,00 126,000 ∴ 66" Diameter Storm Drain 1,800 lf 230,00 414,000 ∴ 72" Diameter Storm Drain 18,500 lf 250,00 4,625,000 ∴ Dewatering¹ 21,600 lf 0.00 0 ∴ 60" Diameter Manhole 0 ea 4,000.00 0 ∴ 72" Diameter Manhole 2 ea 5,000.00 10,000 ∴ Saddle Manhole 42 ea 8,000.00 336,000 ∴ Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 lf n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 ls 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15%) 1,525,429		Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
Excavate 538,644 cy 2.50 1,346,600 Dewatering 42 ac 5,000,00 210,000 Access Road (6" Aggregate Base) 12,300 sy 5.19 63,800 Dump Station 43 cfs 60,000,00 2,580,000 Dump Station 43 cfs 60,000,00 2,580,000 Dewatering 1,000 cy 3.00 24,000 Dewatering 1,292 1f 0.00 0 Access Road (6" Aggregate Base) 1,900 sy 5.19 9,900 Fence, 6 Chainlink 2,296 1f 16.12 37,000 Reinforced Concrete 218 cy 508,88 111,100 Dewatering 140 1f 0.00 0 Structural Excavation 1,426 cy 5.00 7,130 Storm Drainage Pipe System	1. D	rainage Shed 5 Facilities				
Devatering	a.	Water Quality/Detention Basin				
Dewatering 42 ac 5,000.00 210,000		· Excavate	538,644	cy	2.50	1,346,600
Description Section Section		· Dewatering	42		5,000.00	210,000
Description Section Section		· Access Road (6" Aggregate Base)	12,300	sy	5.19	63,800
Pump Station 43 cfs 60,000.00 2,580,000	b		***************************************			
c. Open Channel 8,000 cy 3.00 24,000 · Excavate 8,000 cy 3.00 24,000 · Dewatering¹ 1,292 lf 0.00 0 · Access Road (6" Aggregate Base) 1,900 sy 5.19 9,900 · Fence, 6 'Chainlink 2,296 lf 16.12 37,000 d. Road Crossings (Box Culverts) -<		-{	43	cfs	60,000.00	2,580,000
Excavate	c.	Open Channel				
Dewatering 1,292 If 0.00 0.0			8,000	cv	3.00	24.000
. Access Road (6" Aggregate Base) 1,900 sy 5.19 9,900 . Fence, 6 Chainlink 2,296 lf 16.12 37,000 d. Road Crossings (Box Culverts) 218 cy 508.88 111,100 . Reinforced Concrete 218 cy 508.88 111,100 . Dewatering 140 lf 0.00 0 . Structural Excavation 1,426 cy 5.00 7,130 e. Storm Drainage Pipe System 0 lf 115.00 0 . 42" Diameter Storm Drain 0 lf 160.00 0 . 42" Diameter Storm Drain 500 lf 180.00 90,000 . 54" Diameter Storm Drain 500 lf 180.00 90,000 . 66" Diameter Storm Drain 600 lf 210,00 126,000 . 66" Diameter Storm Drain 1,800 lf 230,00 414,000 . 72" Diameter Storm Drain 18,500 lf 250.00 4,625,000 . Dewatering 21,600 lf 0 ea 4,000.00 0 . 60" Diameter Manhole 2 ea 5,000.00 10 0		· Dewatering ¹		~~~~~~	0.00	
Fence, 6' Chainlink 2,296 If 16.12 37,000		· Access Road (6" Aggregate Base)	1,900	sv	5.19	9,900
d. Road Crossings (Box Culverts) 218 cy 508.88 111,100 · Reinforced Concrete 218 cy 508.88 111,100 · Dewatering¹ 140 lf 0.00 0 · Structural Excavation 1,426 cy 5.00 7,130 e. Storm Drainage Pipe System — · 36" Diameter Storm Drain 0 lf 115.00 0 · 42" Diameter Storm Drain 0 lf 160.00 0 · 48" Diameter Storm Drain 500 lf 180.00 90,000 · 54" Diameter Storm Drain 200 lf 195.00 39,000 · 60" Diameter Storm Drain 600 lf 210,00 126,000 · 66" Diameter Storm Drain 1,800 lf 230,00 414,000 · 72" Diameter Storm Drain 18,500 lf 250,00 4,625,000 · 72" Diameter Storm Drain 18,500 lf 250,00 4,625,000 · Dewatering¹ 21,600 lf 0.00 lf 0.00 · 60" Diameter Manhole 0 ea 4,000.00 lf 0.00 · 62" Diameter Manhole 2 ea 5,000.00 lf 0.00 · 52" Diameter Manhole 42 ea 8,000.00 336,000 · 52" Diameter Manhole 42 ea 8,000.00 336,000 · 500-ft Fill Corridor (Approximate) 42 ea 8,000.00 336,000 · 500-ft Fill Corridor (Approximate) 1 ls 50,000.00 90,000 · 500-ft Fill Corridor (Approximate						
· Reinforced Concrete 218 cy 508.88 111,100 · Dewatering¹ 140 lf 0.00 0 · Structural Excavation 1,426 cy 5.00 7,130 e. Storm Drainage Pipe System 0 lf 115.00 0 · 42" Diameter Storm Drain 0 lf 160.00 0 · 42" Diameter Storm Drain 500 lf 180.00 90,000 · 54" Diameter Storm Drain 200 lf 195.00 39,000 · 60" Diameter Storm Drain 600 lf 210.00 126,000 · 66" Diameter Storm Drain 1,800 lf 230.00 414,000 · 72" Diameter Storm Drain 18,500 lf 250.00 4,625,000 · Dewatering¹ 21,600 lf 0.00 0 · 60" Diameter Manhole 0 ea 4,000.00 0 · 72" Diameter Manhole 2 ea 5,000.00 10,000 · Saddle Manhole 42 ea 8,000.00 336,000 · Dutlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary	d					
. Dewatering¹ 140 If 0.00 0 . Structural Excavation 1,426 cy 5.00 7,130 e. Storm Drainage Pipe System	ا	<u> </u>	218	CV	508.88	111.100
Structural Excavation 1,426 cy 5.00 7,130 E. Storm Drainage Pipe System 0 1f 115.00 0 ∴ 42" Diameter Storm Drain 0 1f 160.00 0 ∴ 48" Diameter Storm Drain 500 1f 180.00 90,000 ∴ 48" Diameter Storm Drain 200 1f 195.00 39,000 ∴ 54" Diameter Storm Drain 600 1f 210.00 126,000 ∴ 60" Diameter Storm Drain 1,800 1f 230.00 414,000 ∴ 72" Diameter Storm Drain 18,500 1f 250.00 4,625,000 ∴ 60" Diameter Storm Drain 18,500 1f 0.00 0 ∴ 60" Diameter Manhole 0 ea 4,000.00 0 ∴ 60" Diameter Manhole 2 ea 5,000.00 10,000 ∴ 5addle Manhole 42 ea 8,000.00 336,000 ∴ Saddle Manhole 42 ea 8,000.00 336,000 ∴ 60" Exception Drain 600 1f 600.00 ∴ 500-ft Fill Corridor (Approximate) 3400 1f n/a 0 ∑ Mobilization/Demobilization (1%, not to exceed \$50,000 1 1s 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,165,330 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 4,203,39,000 Administration, Engineering, and Environmental (15%) 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429 1,525,429 1,525,429 ∴ 1,525,429 1,525,429						0
e. Storm Drainage Pipe System 0 If 115.00 0 . 36" Diameter Storm Drain 0 If 115.00 0 . 42" Diameter Storm Drain 0 If 160.00 0 . 48" Diameter Storm Drain 500 If 180.00 90,000 . 54" Diameter Storm Drain 200 If 195.00 39,000 . 60" Diameter Storm Drain 600 If 210.00 126,000 . 66" Diameter Storm Drain 18,500 If 230.00 414,000 . 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 . Dewatering I 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 2 ea 5,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 Is 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 <td></td> <td>4</td> <td></td> <td></td> <td></td> <td>7.130</td>		4				7.130
. 36" Diameter Storm Drain 0 If 115.00 0 . 42" Diameter Storm Drain 0 If 160.00 0 . 48" Diameter Storm Drain 500 If 180.00 90,000 . 54" Diameter Storm Drain 200 If 195.00 39,000 . 60" Diameter Storm Drain 600 If 210.00 126,000 . 66" Diameter Storm Drain 1,800 If 230.00 414,000 . 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 . Dewatering¹ 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 2 ea 8,000.00 336,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 Is 50,000.00 50,000.00 Subtotal - Shed 5 Drainage Facilities 10,169,530	P		1,120		5.00	7,130
. 42" Diameter Storm Drain 0 If 160.00 0 . 48" Diameter Storm Drain 500 If 180.00 90,000 . 54" Diameter Storm Drain 200 If 195.00 39,000 . 60" Diameter Storm Drain 600 If 210.00 126,000 . 66" Diameter Storm Drain 1,800 If 230.00 414,000 . 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 . Dewatering¹ 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 ls 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 1,525,429	=	<u> </u>	0	1f	115.00	0
∴ 48" Diameter Storm Drain 500 If 180.00 90.000 ∴ 54" Diameter Storm Drain 200 If 195.00 39,000 ∴ 60" Diameter Storm Drain 600 If 210.00 126,000 ∴ 66" Diameter Storm Drain 1,800 If 230.00 414,000 ∴ 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 ∴ Dewatering¹ 21,600 If 0.00 0 ∴ 60" Diameter Manhole 0 ea 4,000.00 0 ∴ 72" Diameter Manhole 2 ea 5,000.00 10,000 ∴ Saddle Manhole 42 ea 8,000.00 336,000 ∴ Suddle Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 g. Mobilization/Demobilization (Approximate) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 ls 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 10,169,530						0
. 54" Diameter Storm Drain 200 If 195.00 39,000 . 60" Diameter Storm Drain 600 If 210.00 126,000 . 66" Diameter Storm Drain 1,800 If 230.00 414,000 . 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 . Dewatering¹ 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 1s 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 1,737,700 2,033,906 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration,			500	lf		90,000
• 60" Diameter Storm Drain 600 1f 210.00 126,000 • 66" Diameter Storm Drain 1,800 1f 230.00 414,000 • 72" Diameter Storm Drain 18,500 1f 250.00 4,625,000 • Dewatering¹ 21,600 1f 0.00 0 • 60" Diameter Manhole 0 ea 4,000.00 0 • 72" Diameter Manhole 2 ea 5,000.00 10,000 • Saddle Manhole 42 ea 8,000.00 336,000 • Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 500-ft Fill Corridor (Approximate) 3400 1f n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 1s 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15%) 1,525,429		<u> </u>	200	lf		
1,800 1f 230.00 414,000		· 60" Diameter Storm Drain	600	1f		
. 72" Diameter Storm Drain 18,500 If 250.00 4,625,000 . Dewatering¹ 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 ls 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 10,169,530 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15%) 1,525,429						
. Dewatering¹ 21,600 If 0.00 0 . 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) . 500-ft Fill Corridor (Approximate) 3400 If n/a 0 g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 Is 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15% 1,525,429						
. 60" Diameter Manhole 0 ea 4,000.00 0 . 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) 3400 lf n/a 0 g. Mobilization/Demobilization (Approximate) 3400 lf n/a 50,000.00 Subtotal - Shed 5 Drainage Facilities 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15%) 1,525,429						0
. 72" Diameter Manhole 2 ea 5,000.00 10,000 . Saddle Manhole 42 ea 8,000.00 336,000 . Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) .						0
. Outlet Structure at Detention Basin or Channel 6 ea 15,000.00 90,000 f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) .		· 72" Diameter Manhole	2	ea		10,000
f. Raised Shed Boundary Fill Zone (Material Obtained From On-Site) \[\cdot \) 500-ft Fill Corridor (Approximate) \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq		· Saddle Manhole	42	ea	8,000.00	336,000
Subtotal - Shed 5 Drainage Facilities 3400 If n/a 0.0		Outlet Structure at Detention Basin or Channel	6	ea	15,000.00	90,000
g. Mobilization/Demobilization (1%, not to exceed \$50,000 1 ls 50,000.00 50,000 Subtotal - Shed 5 Drainage Facilities 10,169,530 Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15% 1,525,429	f.					
Subtotal - Shed 5 Drainage Facilities 10,169,530						0
Land Acquisition 46 ac 37,500.00 1,737,700 Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15%) 1,525,429			1	ls	50,000.00	
Construction Contingencies (20%) 2,033,906 Administration, Engineering, and Environmental (15% 1,525,429					25 500 00	
Administration, Engineering, and Environmental (15% 1,525,429			46	ac	37,500.00	
						1,323,429

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 6

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 6 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	656,788	cy	2.50	1,642,000
	· Dewatering	48	ac	5,000.00	240,000
	· Access Road (6" Aggregate Base)	12,817	sy	5.19	66,500
b	Pump Station				
	· Pump Station	61	cfs	60,000.00	3,660,000
c.	Open Channel			00,000.00	2,000,000
-	· Excavate	92,980	cy	3.00	278,900
	Dewatering Near Major Road	6,361	lf	0.00	270,500
	Dewatering Dewatering	5,754	lf	10.00	57,500
-		·			
	Access Road (6" Aggregate Base)	20,192	sy	5.19	104,800
l	- Fence, 6' Chainlink	24,230	lf	16.12	390,600
d.	Road Crossings (Box Culverts)				
	· Reinforced Concrete	508	cy	508.88	258,600
	· Dewatering ¹	300	lf	0.00	0
	· Structural Excavation	2,978	cy	5.00	14,889
e.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	0	lf	115.00	0
	· 42" Diameter Storm Drain	350	lf	160.00	56,000
	· 48" Diameter Storm Drain	350	lf	180.00	63,000
	· 54" Diameter Storm Drain	0	lf	195.00	0
	· 60" Diameter Storm Drain	0	lf	210.00	0
	· 66" Diameter Storm Drain	0	lf	230.00	0
	· 72" Diameter Storm Drain	20,900	lf	250.00	5,225,000
	· Dewatering ¹	21,600	1f	0.00	0
	· 60" Diameter Manhole	1	ea	4,000.00	4,000
	· 72" Diameter Manhole	1	ea	5,000.00	5,000
	· Saddle Manhole	42	ea	8,000.00	336,000
	Outlet Structure at Detention Basin or Channel	15	ea	15,000.00	225,000
f.	Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				
	500-ft Fill Corridor (Approximate)	11800	lf	n/a	50,000
	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
	abtotal - Shed 6 Drainage Facilities	60		27.500.00	12,677,789
	and Acquisition	69	ac	37,500.00	2,579,600 2,535,558
	onstruction Contingencies (20%) dministration, Engineering, and Environmental (15%				2,535,558 1,901,668
	AL SHED 6 DRAINAGE FACILITIES COST				19,694,615
101	AL SHED V DRAINAGE FACILITIES COST				17,074,013

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 7

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 7 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	1,436,621	cy	2.50	3,591,600
	· Dewatering	166	ac	5,000.00	828,800
	Access Road (6" Aggregate Base)	60,237	sy	5.19	312,600
b.	Pump Station				
	· Pump Station	106	cfs	60,000.00	6,360,000
c.	Open Channel				
	· Excavate	80.792	cy	3.00	242,400
	Dewatering Near Major Road	3,620	lf	0.00	0
	· Dewatering	6,647	lf	10.00	66,500
	· Access Road (6" Aggregate Base)	17,112	sy	5.19	88,800
	- Fence. 6' Chainlink	20.534	lf	16.12	331,000
d.					
	Reinforced Concrete	1,426	cy	508.88	725,500
	· Dewatering ¹	802	lf	0.00	720,000
	· Structural Excavation	6,507	cy	5.00	32,536
e.		0,007		2.00	02,000
	· 36" Diameter Storm Drain	3,900	lf	115.00	448,500
	· 42" Diameter Storm Drain	4,450	lf	160.00	712,000
	· 48" Diameter Storm Drain	1,700	lf	180.00	306.000
	· 54" Diameter Storm Drain	5.700	lf	195.00	1,111,500
	· 60" Diameter Storm Drain	11,000	lf	210.00	2,310,000
	· 66" Diameter Storm Drain	2,500	lf	230.00	575,000
-	· 72" Diameter Storm Drain	6,300	lf	250.00	1.575.000
	· 72" Diameter HDPE Storm Drain	1,400	lf	465.00	651,000
	· Dewatering ¹	36,950	lf	0.00	0
	· 60" Diameter Manhole	17	ea	4,000.00	68,000
	· 72" Diameter Manhole	15	ea	5,000.00	75,000
	· Saddle Manhole	43	ea	8,000.00	344,000
	Inlet/Outlet Structure at Detention Basin or Channel	18	ea	15,000.00	270,000
f.	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
	ubtotal - Shed 7 Drainage Facilities				21,075,736
	and Acquisition	190	ac	37,500.00	7,107,200
C	onstruction Contingencies (20%)				4,215,147
A	dministration, Engineering, and Environmental (15%				3,161,360
TOT	CAL SHED 7 DRAINAGE FACILITIES COST				35,559,444

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 8

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Drainage Shed 8 Facilities				
a. Water Quality/Detention Basin				
· Excavate	269,324	cy	2.50	673,300
Dewatering	21	ac	5,000.00	102,600
· Access Road (6" Aggregate Base)	6,933	sy	5.19	36,000
b. Pump Station				
· Pump Station	21	cfs	60,000.00	1,236,000
c. Storm Drainage Pipe System				
· 36" Diameter Storm Drain	600	lf	115.00	69,000
· 42" Diameter Storm Drain	1,200	lf	160.00	192,000
· 48" Diameter Storm Drain	500	lf	180.00	90,000
· 54" Diameter Storm Drain	1,200	lf	195.00	234,000
· 60" Diameter Storm Drain	0	lf	210.00	0
· 66" Diameter Storm Drain	1400	lf	230.00	322,000
· 72" Diameter Storm Drain	5550	lf	250.00	1,387,500
· Dewatering ¹	10,450	lf	0.00	0
· 60" Diameter Manhole	4	ea	4,000.00	16,000
· 72" Diameter Manhole	3	ea	5,000.00	15,000
· Saddle Manhole	14	ea	8,000.00	112,000
Outlet Structure at Basin	4	ea	15,000.00	60,000
d. Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				
500-ft Fill Corridor (Approximate)	1100	lf .	n/a	0
e. Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	45,454.00	45,500
Subtotal - Shed 8 Drainage Facilities	22		27 500 00	4,590,900
Land Acquisition	22	ac	37,500.00	825,000 918,180
Construction Contingencies (20%) Administration, Engineering, and Environmental (15%	1			688,635
TOTAL SHED 8 DRAINAGE FACILITIES COST				7.022,715
TOTAL ORDER OF PARTITION OF THE PARTITIO				7,022,713

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 9

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Di	rainage Shed 9 Facilities				
a.	Detention Basin				
	· Excavate	655,776	су	2.50	1,639,400
	· Dewatering	41	ac	5,000.00	202,700
	· Access Road (6" Aggregate Base)	8,943	sy	5.19	46,400
b.	Pump Station				
	· Pump Station	47	cfs	60,000.00	2,844,000
c.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	1,100	lf	115.00	126,500
	· 42" Diameter Storm Drain	600	lf	160.00	96,000
	· 48" Diameter Storm Drain	6,000	lf	180.00	1,080,000
	· 54" Diameter Storm Drain	2,200	lf	195.00	429,000
	· 60" Diameter Storm Drain	2,700	lf	210.00	567,000
	66" Diameter Storm Drain	2,200	lf	230.00	506,000
	· 72" Diameter Storm Drain	10,600	lf	250.00	2,650,000
	· Dewatering ¹	25,400	lf	0.00	0
	· 60" Diameter Manhole	3	ea	4,000.00	12,000
	· 72" Diameter Manhole	16	ea	5,000.00	80,000
	· Saddle Manhole	31	ea	8,000.00	248,000
	· Outlet Structure at Basin	3	ea	15,000.00	45,000
d.	- Raised Shed Boundary Fill Zone (Material Obtained From both On-Site and Off-Site)			
	· 500-ft Fill Corridor (Approximate)	18000	lf	n/a	0
	· Import Material from Off-Site Using Scrapers	686,810	сy	2.50	1,717,000
	· Spread topsoil by equipment on sit ²	686,810	cy	1.50	1,030,200
e.	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
St	ıbtotal - Shed 9 Drainage Facilities				13,369,200
	and Acquisition	42	ac	37,500.00	1,590,000
Co	onstruction Contingencies (20%)				2,673,840
	dministration, Engineering, and Environmental (15%				2,005,380
TOT	AL SHED 9 DRAINAGE FACILITIES COST				19,638,420

Notes:

- 1. Dewatering in vicinity of major roads is embedded cost opinion in Sewer Master Plan (by others).
- 2. Haul and Spread Quantities reflect import material from offsite necessary for raising the shed boundary as well as providing a positive gradient for onsite drainage. Borrow site is assumed to be land located north of plan area, west of Highway 99.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 10

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 10 Facilities				
	Water Quality/Detention Basin				
	· Excavate	210,286	cy	2.50	525,700
	· Dewatering	20	ac	5,000.00	98,800
	· Access Road (6" Aggregate Base)	6,552	sy	5.19	34,000
b.	Pump Station				
	· Pump Station	16	cfs	60,000.00	960,000
c.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	500	lf	115.00	57,500
	· 42" Diameter Storm Drain	600	lf	160.00	96,000
	· 48" Diameter Storm Drain	1,200	lf	180.00	216,000
	· 54" Diameter Storm Drain	600	lf	195.00	117,000
	· 60" Diameter Storm Drain	1,400	lf	210.00	294,000
	· 66" Diameter Storm Drain	1,100	lf	230.00	253,000
	· 72" Diameter Storm Drain	3,100	lf	250.00	775,000
	· Dewatering ¹	8,500	lf	0.00	0
	· 60" Diameter Manhole	2	ea	4,000.00	8,000
	· 72" Diameter Manhole	4	ea	5,000.00	20,000
	· Saddle Manhole	11	ea	8,000.00	88,000
	Outlet Structure at Basin	2	ea	15,000.00	30,000
	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	35,730.00	35,700
	ubtotal - Shed 10 Drainage Facilities				3,608,700
La	and Acquisition	21	ac	37,500.00	791,300
C	onstruction Contingencies (20%)				721,740
	dministration, Engineering, and Environmental (15% ALSHED 10 DRAINAGE FACILITIES COST				541,305 5,663,045
101	AL SHED IV DRAINAGE PACILITIES COST				5,663,045

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 11

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Drainage Shed 11 Facilities				
a. Water Quality/Detention Basin				
· Excavate	298,225	cy	2.50	745,600
· Dewatering	23	ac	5,000.00	114,100
· Access Road (6" Aggregate Base)	7,910	sy	5.19	41,100
b. Pump Station	***************************************			***************************************
· Pump Station	27	cfs	60,000.00	1,620,000
c. Open Channel	•		•	***************************************
· Excavate	27,111	cy	3.00	81,300
· Dewatering ¹	4,325	lf	0.00	0
· Access Road (6" Aggregate Base)	7,208	sy	5.19	37,400
- Fence, 6' Chainlink	8,650	lf	16.12	139,400
d. Road Crossing (two 72" RCPs)				
· Reinforced Concrete	288	cy	508.88	146,400
· Dewatering ¹	160	lf	0.00	0
Structural Excavation	1,849	cy	5.00	9,244
e. Storm Drainage Pipe System	1,012		2.00	7,211
· 36" Diameter Storm Drain	0	lf	115.00	0
· 42" Diameter Storm Drain	600	lf	160.00	96,000
· 48" Diameter Storm Drain	2,400	lf	180.00	432,000
· 54" Diameter Storm Drain	3,200	lf	195.00	624,000
· 60" Diameter Storm Drain	1,200	lf	210.00	252.000
· 66" Diameter Storm Drain	800	lf	230.00	184,000
· 72" Diameter Storm Drain	2,400	lf	250.00	600,000
Dewatering ¹ Dewatering ¹	10,600	lf	0.00	000,000
· 60" Diameter Manhole	10,000	ea	4,000.00	4.000
· 72" Diameter Manhole	11	ea	5,000.00	55,000
· Saddle Manhole	9	ea	8,000.00	72,000
Outlet Structure at Basin	5	ea	15,000.00	75,000
f Raised Shed Boundary Fill Zone (Material Obtained From both On-Site and Off-Site				
500-ft Fill Corridor (Approximate)	12700	1f	n/a	0
Haul Material in Trucks from Sankey Regional Detention Site	1,460,240	cy	2.50	3,650,600
Spread topsoil by equipment on site.	1,460,240	cy	1.50	2,190,400
g. Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
Subtotal - Shed 11 Drainage Facilities				11,219,544
Land Acquisition	31	ac	37,500.00	1,157,000
Construction Contingencies (20%)				2,243,909
Administration, Engineering, and Environmental (15%				1,682,932
TOTAL SHED 11 DRAINAGE FACILITIES COST				16,303,385

Notes

- 1. Dewatering in vicinity of major roads is embedded cost opinion in Sewer Master Plan (by others).
- 2. Haul and Spread Quantities reflect import material from offsite necessary for raising the shed boundary as well as providing a positive gradient for onsite drainage. Borrow site is assumed to be land located north of plan area, west of Highway 99.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 1

SHED 12

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Drainage Shed 12 Facilities				
a. Water Quality/Detention Basin				***************************************
· Excavate	493,107	cy	2.50	1,232,800
· Dewatering	49	ac	5,000.00	244,600
· Access Road (6" Aggregate Base)	20,000	sy	5.19	103,800
b. Pump Station				
Pump Station	51	cfs	60,000.00	3,036,000
c. Storm Drainage Pipe System				
· 36" Diameter Storm Drain	600	lf	115.00	69,000
· 42" Diameter Storm Drain	0	lf	160.00	0
· 48" Diameter Storm Drain	0	lf	180.00	0
54" Diameter Storm Drain	4,700	lf	195.00	916,500
60" Diameter Storm Drain	0	lf	210.00	0
66" Diameter Storm Drain	850	lf	230.00	195,500
· 72" Diameter Storm Drain	11,700	lf	250.00	2,925,000
-	800	lf	465.00	372,000
Dewatering ¹	18,050	lf	0.00	0
· 60" Diameter Manhole	1	ea	4,000.00	4,000
· 72" Diameter Manhole	9	ea	5,000.00	45,000
Saddle Manhole	27	ea	8,000.00	216,000
Inlet/Outlet Structure at Detention Basin	8	ea	15,000.00	120,000
d. Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				
· 500-ft Fill Corridor (Approximate)	9400	lf	n/a	0
e. Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
Subtotal - Drainage Shed 12 Facilities				9,530,200
Land Acquisition	55	ac	37,500.00	2,057,600
Construction Contingencies (20%)		•		1,906,040
Administration, Engineering, and Environmental (15%		•		1,429,530
TOTAL DRAINAGE SHED 12 FACILITIES COST				14,923,370

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 1 of 2

REGIONAL FACILITIES

Description	Ouantity	Unit	Unit Cost, \$	Total Cost, \$
1. Regional Facilities	Quantity	Cint	eint cost, φ	Total Cost, ¢
a. Detention Basins - Sankey Spill				
Excavate Excavate	7,565,641	cv	2.50	18,914,100
· Dewatering	414	ac	3,000.00	1,242,000
· Access Road (6" Aggregate Base	77,972	sy	5.19	404,700
· Riprap ²	12,857	cy	59.40	763,700
b. Sankey North Storage Outlet (Cell #1)				
· 42" Diameter Storm Drain	85	lf	160.00	13,600
· Inlet/Outlet Headwall	2	ea	15,000.00	30,000
· Dewatering ³	85	lf	0.00	0
- 42-inch Canal Gate	1	ea	20,000.00	20,000
c. Cross-Connection Between Sankey Basin Cells #1 and #2				
· 72" Diameter Storm Drain	430	lf	250.00	107,500
· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
· Dewatering ²	430	lf	0.00	00,000
d. Internal North-South Cross-Connections Within Sankey Cell #1	.50		0.00	
· 72" Diameter Storm Drain	160	1f	250.00	40.000
· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
· Dewatering ²	160	lf	0.00	C
e. Downstream Channel Improvements Parallel to Sankey Road and Highway 99				
· Excavate	168,747	cy	4.65	784,700
· Dewatering ³	2,040	lf	0.00	0
Access Road (6" Aggregate Base)	1,456	sy	5.19	7,600
- Fence, 6' Chainlink	2,040	lf	16.12	32,900
f. Sankey South Storage Outlet (Cell #3)				
· 42" Diameter Storm Drain	760	lf	160.00	121,600
· Inlet/Outlet Headwall	2	ea	15,000.00	30,000
· Dewatering ³	760	lf	0.00	0
· 60" Diameter Manhole	1	ea	4,000.00	4,000
- 42-inch Canal Gate	1	ea	20,000.00	20,000
g. Sankey South Storage Inlet (Cell #3)				
· 54" Diameter Storm Drain	330	lf	195.00	64,400
· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
. Dewatering	330	lf	0.00	0

Notes:

- 1. Excavated volume is assumed to be utilized as on-site fill for project land east of Highway 99.
- 2. Dewatering cost is embedded in dewatering estimates for adjacent detention basins.
- 3. Channel Improvements summarized in this table reflect only the improvements necessary to optimize gravity drainage for the Sankey Detention volume after a Sankey Spill event.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1

Sheet 2 of 2

REGIONAL FACILITIES

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
h. Cross-Connection Between Sankey Basin Cells #3 and #4				
· 54" Diameter Storm Drain	500	lf	195.00	97,500
· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
• Dewatering ³	500	lf	0.00	0
i. Cross-Connection Between Sankey Basin Cells #4 and #5				
· 72" Diameter Storm Drain	100	lf	250.00	25,000
· Inlet/Outlet Headwall	2	ea	15,000.00	30,000
• Dewatering ³	100	lf	0.00	0
j. Sankey Interceptor Channel				
· Excavate	9,913	cy	3.00	29,700
• Dewatering ³	4,570	lf	0.00	0
Access Road (6" Aggregate Base)	5,508	sy	5.19	28,600
- Fence, 6' Chainlink	4,570	lf	16.12	73,700
k. East Drainage Canal Improvements				
- Excavate	189,950	cy	4.65	883,300
Dewatering	32	ac	5,000.00	159,300
Access Road (6" Aggregate Base)	30,845	sy	5.19	160,100
- Fence, 6' Chainlink	37,014	lf	16.12	596,700
Redundancy Features to RD1000 Pumping Facilities				
- Backup pumping capacity and power supply	1	ls	TBD	
m. Mobilization/Demobilization (1%, not to exceed \$50,000)	1	ls	50,000.00	50,000
Subtotal - Regional Drainage Facilities				24,974,700
Land Acquisition	424	ac	37,500.00	15,909,100
Construction Contingencies (20%)				4,994,940
Administration, Engineering, and Environmental (15%				3,746,205
TOTAL REGIONAL DRAINAGE FACILITIES COST				49,624,945

Notes

- 1. A portion of excavated volume is proposed as import for Sheds 9 and 11, see Tables 20 and 23.
- 2. Includes Emergency Spillways and Inlet Weir
- 3. Dewatering cost is embedded in dewatering estimates for adjacent detention basins.
- 4. Channel Improvements summarized in this table reflect only the improvements necessary to optimize gravity drainage for the Sankey Detention volume after a Sankey Spill event.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE A SUMMARY

SUMMARY

	Description	Total Cost, \$
1.	Drainage Shed 1 Facilities Subtotal	0
2.	Drainage Shed 2 Facilities Subtotal	0
3.	Drainage Shed 3 Facilities Subtotal	0
4.	Drainage Shed 4 Facilities Subtotal	0
5.	Drainage Shed 5 Facilities Subtotal	0
6.	Drainage Shed 6 Facilities Subtotal	0
7.	Drainage Shed 7 Facilities Subtotal	0
8.	Drainage Shed 8 Facilities Subtotal	0
9.	Drainage Shed 9 Facilities Subtotal (Table 58)	17,912,000
10.	Drainage Shed 10 Facilities Subtotal	0
11.	Drainage Shed 11 Facilities Subtotal (Table 59)	14,945,000
12.	Drainage Shed 12 Facilities Subtotal	0
13.	Regional Facilities Subtotal	0
	Subtotal - Drainage Facilities	32,857,000

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE A SHED 9

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	Prainage Shed 9 Facilities				
a	Detention Basin				
	· Excavate	655,776	cy	2.50	1,639,400
	· Dewatering	41	ac	5,000.00	202,700
	· Access Road (6" Aggregate Base)	8,943	sy	5.19	46,400
b	Pump Station				
	· Pump Station	47	cfs	60,000.00	2,844,000
c	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	1,100	lf	115.00	126,500
	· 42" Diameter Storm Drain	600	lf	160.00	96,000
	· 48" Diameter Storm Drain	3,600	lf	180.00	648,000
	· 54" Diameter Storm Drain	1,700	lf	195.00	331,500
	· 60" Diameter Storm Drain	1,400	lf	210.00	294,000
	· 66" Diameter Storm Drain	1,600	lf	230.00	368,000
	· 72" Diameter Storm Drain	9,600	lf	250.00	2,400,000
	· Dewatering ¹	19,600	lf	0.00	0
	· 60" Diameter Manhole	3	ea	4,000.00	12,000
	· 72" Diameter Manhole	11	ea	5,000.00	55,000
	· Saddle Manhole	25	ea	8,000.00	200,000
	Outlet Structure at Basin	2	ea	15,000.00	30,000
d	Raised Shed Boundary Fill Zone (Material Obtained From both On-Site and Off-Site)			
	500-ft Fill Corridor (Approximate)	18000	lf	n/a	0
	Import Material from Off-Site Using Scraper's	686,810	сy	2.50	1,717,000
	· Spread topsoil by equipment on sit ²	686,810	cy	1.50	1,030,200
e		1	cy Is	50,000.00	50,000
S	ubtotal - Shed 9 Drainage Facilities				12,090,700
L	and Acquisition	42	ac	37,500.00	1,590,000
C	onstruction Contingencies (20%)				2,418,140
	dministration, Engineering, and Environmental (15%				1,813,605
TO	TAL SHED 9 DRAINAGE FACILITIES COST				17,912,445

Notes:

- 1. Dewatering in vicinity of major roads is embedded cost opinion in Sewer Master Plan (by others).
- 2. Haul and Spread Quantities reflect import material from offsite necessary for raising the shed boundary as well as providing a positive gradient for onsite drainage. Borrow site is assumed to be land located north of plan area, west of Highway 99.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE A SHED 11

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Dı	ainage Shed 11 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	298,225	су	2.50	745,600
	· Dewatering	23	ac	5,000.00	114,100
	· Access Road (6" Aggregate Base)	7,910	sy	5.19	41,100
b.	Pump Station				***************************************
	· Pump Station	27	cfs	60,000.00	1,620,000
c.	Open Channel				
	· Excavate	27,111	cy	3.00	81,300
	· Dewatering ¹	4,325	lf	0.00	0
	· Access Road (6" Aggregate Base)	7,208	sy	5.19	37,400
	- Fence, 6' Chainlink	8,650	lf	16.12	139,400
d.	Road Crossing (two 72" RCPs)				
	· Reinforced Concrete	288	cy	508.88	146,400
	· Dewatering ¹	160	lf	0.00	0
	Structural Excavation	1,849	cy	5.00	9,244
e.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	0	lf	115.00	0
	· 42" Diameter Storm Drain	0	lf	160.00	0
	· 48" Diameter Storm Drain	1,200	lf	180.00	216,000
	· 54" Diameter Storm Drain	3,200	lf	195.00	624,000
	· 60" Diameter Storm Drain	600	lf	210.00	126,000
	· 66" Diameter Storm Drain	0	lf	230.00	0
	· 72" Diameter Storm Drain	1,200	lf	250.00	300,000
	· Dewatering ¹	6,200	lf	0.00	0
	· 60" Diameter Manhole	0	ea	4,000.00	0
	· 72" Diameter Manhole	9	ea	5,000.00	45,000
	· Saddle Manhole	4	ea	8,000.00	32,000
	Outlet Structure at Basin	3	ea	15,000.00	45,000
f.	- Raised Shed Boundary Fill Zone (Material Obtained From both On-Site and Off-Site				
	· 500-ft Fill Corridor (Approximate)	12700	lf	n/a	0
 	Haul Material in Trucks from Sankey Regional Detention Site	1,460,240	cy	2.50	3,650,600
ļ	Spread topsoil by equipment on site.	1,460,240	cy	1.50	2,190,400
	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
	btotal - Shed 11 Drainage Facilities and Acquisition	31		37,500.00	10,213,544 1,157,000
	onstruction Contingencies (20%	31	ac	37,300.00	2,042,709
	Iministration, Engineering, and Environmental (15%				1,532,032
	AL SHED 11 DRAINAGE FACILITIES COST				14,945,285

Notes

- 1. Dewatering in vicinity of major roads is embedded cost opinion in Sewer Master Plan (by others).
- 2. Haul and Spread Quantities reflect import material from offsite necessary for raising the shed boundary as well as providing a positive gradient for onsite drainage. Borrow site is assumed to be land located north of plan area, west of Highway 99.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE 1 SUMMARY

	Description	Total Cost, \$
1.	Drainage Shed 1 Facilities Subtotal	0
2.	Drainage Shed 2 Facilities Subtotal	0
3.	Drainage Shed 3 Facilities Subtotal	0
4.	Drainage Shed 4 Facilities Subtotal	0
5.	Drainage Shed 5 Facilities Subtotal	0
6.	Drainage Shed 6 Facilities Subtotal (Table 54)	18,265,000
7.	Drainage Shed 7 Facilities Subtotal (Table 55)	27,678,000
8.	Drainage Shed 8 Facilities Subtotal	0
9.	Drainage Shed 9 Facilities Subtotal	0
10.	Drainage Shed 10 Facilities Subtotal	0
11.	Drainage Shed 11 Facilities Subtotal	0
12.	Drainage Shed 12 Facilities Subtotal (Table 56)	13,067,000
13.	Regional Facilities Subtotal (Table 24)	49,625,000
	Subtotal - Drainage Facilities	108,635,000

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE 1 SHED 6

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D	rainage Shed 6 Facilities				
a.	Water Quality/Detention Basin				
	· Excavate	656,788	cy	2.50	1,642,000
	· Dewatering	48	ac	5,000.00	240,000
	· Access Road (6" Aggregate Base)	12,817	sy	5.19	66,500
b.	Pump Station			•	
	· Pump Station	61	cfs	60,000.00	3,660,000
C	Open Channel				-,,
	· Excavate	92,980	cy	3.00	278,900
	Dewatering Near Major Road	6,361	lf	0.00	2.0,500
	Dewatering Dewatering	5,754	lf	10.00	57,500
	<u> </u>				
	Access Road (6" Aggregate Base) - Fence. 6' Chainlink	20,192 24,230	sy lf	5.19 16.12	104,800 390,600
-	, ,	24,230	IΓ	16.12	390,600
d.	Road Crossings (Box Culverts)	500		500.00	250 600
	· Reinforced Concrete	508	cy	508.88	258,600
I -	· Dewatering ¹	300	lf	0.00	0
l	· Structural Excavation	2,978	cy	5.00	14,889
e.	Storm Drainage Pipe System				
	· 36" Diameter Storm Drain	0	lf	115.00	0
	· 42" Diameter Storm Drain	350	lf	160.00	56,000
	· 48" Diameter Storm Drain	350	lf	180.00	63,000
	54" Diameter Storm Drain	0	lf	195.00	0
	60" Diameter Storm Drain	0	lf	210.00	0
I ⊢	· 66" Diameter Storm Drain	0	lf	230.00	0
l	· 72" Diameter Storm Drain	17,100	lf	250.00	4,275,000
I -	Dewatering 60" Diameter Manhole	17,800	lf	0.00 4.000.00	4.000
I -	O' Diameter Manhole 72" Diameter Manhole	1	ea	5,000.00	4,000 5.000
I	Saddle Manhole	34	ea ea	8,000.00	272.000
l	Outlet Structure at Detention Basin or Channel	12.	ea	15,000.00	180,000
f.	Raised Shed Boundary Fill Zone (Material Obtained From On-Site)	12	Ca	13,000.00	180,000
1.	500-ft Fill Corridor (Approximate)	11800	lf	n/a	0
g.	Mobilization/Demobilization (1%, not to exceed \$50,000	11000	ls	50,000.00	50,000
	ibtotal - Shed 6 Drainage Facilities			20,000.00	11,618,789
	and Acquisition	69	ac	37,500.00	2,579,600
C	onstruction Contingencies (20%)				2,323,758
A	dministration, Engineering, and Environmental (15%				1,742,818
TOT	AL SHED 6 DRAINAGE FACILITIES COST				18,264,965

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE 1 SHED 7

		Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. D)ra	inage Shed 7 Facilities				
a	. 1	Water Quality/Detention Basin				
	1	· Excavate	1,258,388	cy	2.50	3,146,000
	\top	· Dewatering	127	ac	5,000.00	637,300
	T	· Access Road (6" Aggregate Base)	46,688	SV	5.19	242,300
b	. 1	Pump Station		······································		
	1	· Pump Station	106	cfs	60,000,00	6,360,000
c	. (Open Channel				
	+	Excavate	63.187	cy	3.00	189,600
	†	Dewatering Near Major Road ¹	3,620	lf	0.00	0
	t	Dewatering	3,372	lf	10.00	33,700
	†	· Access Road (6" Aggregate Base)	11,653	sy	5.19	60,500
l l	+	- Fence. 6' Chainlink	13.984	lf	16.12	225,400
d	1	Road Crossings (Box Culverts)	13,704	- 11	10.12	223,400
"	+	Reinforced Concrete	1,426	сy	508.88	725,500
l -	+	· Dewatering ¹	802	lf	0.00	725,300
l	+	· Structural Excavation	6,507	cy	5.00	32,536
-		Storm Drainage Pipe System	0,307	Су	3.00	32,330
	+	· 36" Diameter Storm Drain	1,600	lf	115.00	184,000
l	+	· 42" Diameter Storm Drain	400	lf	160.00	64,000
	+	· 48" Diameter Storm Drain	600	lf	180.00	108,000
l	+	54" Diameter Storm Drain	3,600	lf	195.00	702,000
l	+	60" Diameter Storm Drain	5,700	lf	210.00	1,197,000
-	+	66" Diameter Storm Drain	2,500	lf	230.00	575,000
l	+	· 72" Diameter Storm Drain	4,500	lf	250.00	1,125,000
	+	· 72 Diameter Storm Drain	800	lf	465.00	372,000
	+	Dewatering ¹ Dewatering ¹	19,700	lf	0.00	372,000
	†	· 60" Diameter Manhole	4	ea	4,000.00	16,000
	\dagger	· 72" Diameter Manhole	9	ea	5,000.00	45,000
	\dagger	· Saddle Manhole	27	ea	8,000.00	216,000
	T	· Inlet/Outlet Structure at Detention Basin or Channel	8	ea	15,000.00	120,000
f.	. 1	Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
S	ub	total - Shed 7 Drainage Facilities				16,426,836
		d Acquisition	147	ac	37,500.00	5,502,200
C	or	struction Contingencies (20%)				3,285,367
Α	١dı	ninistration, Engineering, and Environmental (15%				2,464,025
TO	ľA	L SHED 7 DRAINAGE FACILITIES COST				27,678,429

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

OPINION OF PROBABLE COSTS ALTERNATIVE 1 PHASING

Sheet 1 of 1

PHASE 1 SHED 12

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1. Drainage Shed 12 Facilities				
a. Water Quality/Detention Basin				***************************************
Excavate	493,107	cy	2.50	1,232,800
Dewatering	49	ac	5,000.00	244,600
· Access Road (6" Aggregate Base)	20,000	sy	5.19	103,800
b. Pump Station				
Pump Station	51	cfs	60,000.00	3,036,000
c. Storm Drainage Pipe System				
· 36" Diameter Storm Drain	600	lf	115.00	69,000
· 42" Diameter Storm Drain	0	lf	160.00	0
48" Diameter Storm Drain	0	lf	180.00	0
54" Diameter Storm Drain	4,700	lf	195.00	916,500
60" Diameter Storm Drain	0	lf	210.00	0
66" Diameter Storm Drain	850	lf	230.00	195,500
- 72" Diameter Storm Drain	6,700	lf	250.00	1,675,000
- 72" Diameter HDPE Storm Drain	800	lf	465.00	372,000
Dewatering ¹	13,650	lf	0.00	0
· 60" Diameter Manhole	1	ea	4,000.00	4,000
· 72" Diameter Manhole	9	ea	5,000.00	45,000
· Saddle Manhole	17	ea	8,000.00	136,000
Inlet/Outlet Structure at Detention Basin	5	ea	15,000.00	75,000
d. Raised Shed Boundary Fill Zone (Material Obtained From On-Site)				·
500-ft Fill Corridor (Approximate)	9400	lf	n/a	0
e. Mobilization/Demobilization (1%, not to exceed \$50,000	1	ls	50,000.00	50,000
Subtotal - Drainage Shed 12 Facilities				8,155,200
Land Acquisition	55	ac	37,500.00	2,057,600
Construction Contingencies (20%)				1,631,040
Administration, Engineering, and Environmental (15%		•		1,223,280
TOTAL DRAINAGE SHED 12 FACILITIES COST				13,067,120

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

ALTERNATIVE 1 PHASING

Sheet 1 of 2

PHASE 1 REGIONAL FACILITIES

	Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
1 Do	gional Facilities	Quantity	Oint	Cint Cost, \$\phi\$	Total Cost, \$\phi\$
ş					
a.	Detention Basins - Sankey Spill · Excavate	7.565.641		2.50	10.014.100
-		7,565,641	су	2.50	18,914,100
	· Dewatering	414	ac	3,000.00	1,242,000
	· Access Road (6" Aggregate Base	77,972	sy	5.19	404,700
	· Riprap	12,857	сy	59.40	763,700
b.	Sankey North Storage Outlet (Cell #1)				
	· 42" Diameter Storm Drain	85	lf	160.00	13,600
	· Inlet/Outlet Headwall	2	ea	15,000.00	30,000
	· Dewatering ²	85	lf	0.00	0
	- 42-inch Canal Gate	1	ea	20,000.00	20,000
c.	Cross-Connection Between Sankey Basin Cells #1 and #2			20,000.00	20,000
Ċ.	· 72" Diameter Storm Drain	430	lf	250.00	107,500
-	· Inlet/Outlet Headwall	430	ea	15,000.00	60,000
-	Dewatering ²	430	lf	0.00	00,000
d	Internal North-South Cross-Connections Within Sankey Cell #1	430		0.00	
u.	· 72" Diameter Storm Drain	160	lf	250.00	40,000
-	· Inlet/Outlet Headwall	100	ea	15.000.00	60,000
-	· Dewatering - Deep ²	160	lf	0.00	00,000
e.	Downstream Channel Improvements Parallel to Sankey Road and Highway 99	100		0.00	
-	· Excavate	168,747	cy	4.65	784,700
-	· Dewatering ²	2,040	lf	0.00	0
	· Access Road (6" Aggregate Base)	1,456	sy	5.19	7,600
	- Fence. 6' Chainlink	2,040	lf	16.12	32,900
f.	Sankey South Storage Outlet (Cell #3)				
	· 42" Diameter Storm Drain	760	lf	160.00	121,600
	· Inlet/Outlet Headwall	2	ea	15,000.00	30,000
	· Dewatering ²	760	lf	0.00	0
	· 60" Diameter Manhole	1	ea	4,000.00	4,000
	- 42-inch Canal Gate	1	ea	20,000.00	20,000
g.	Sankey South Storage Inlet (Cell #3)				
J	· 54" Diameter Storm Drain	330	lf	195.00	64,400
	· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
	· Dewatering ²	330	lf	0.00	C

Notes

- $1. \ A portion of excavated volume is proposed as import for Sheds 9 and 11, see Tables 20 and 23.$
- 2. Dewatering cost is embedded in dewatering estimates for adjacent detention basins.
- 3. Channel Improvements summarized in this table reflect only the improvements necessary to optimize gravity drainage for the Sankey Detention volume after a Sankey Spill event.

SOUTH SUTTER SPECIFIC PLAN DRAINAGE MASTER PLAN

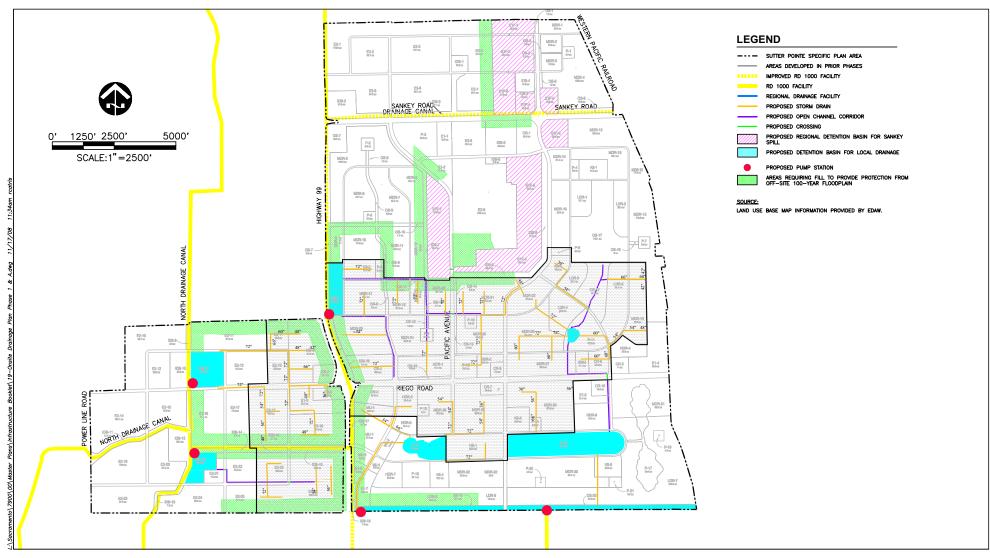
ALTERNATIVE 1 PHASING

Sheet 2 of 2

PHASE 1 REGIONAL FACILITIES

Description	Quantity	Unit	Unit Cost, \$	Total Cost, \$
h. Cross-Connection Between Sankey Basin Cells #3 and #4				
· 54" Diameter Storm Drain	500	lf	195.00	97,500
· Inlet/Outlet Headwall	4	ea	15,000.00	60,000
· Dewatering ²	500	lf	0.00	0
i. Cross-Connection Between Sankey Basin Cells #4 and #5				
· 72" Diameter Storm Drain	100	lf	250.00	25,000
Inlet/Outlet Headwall	2	ea	15,000.00	30,000
· Dewatering ²	100	lf	0.00	0
j. Sankey Interceptor Channel				
- Excavate	9,913	сy	3.00	29,700
- Dewatering ²	4,570	lf	0.00	0
Access Road (6" Aggregate Base)	5,508	sy	5.19	28,600
- Fence, 6' Chainlink	4,570	lf	16.12	73,700
k. East Drainage Canal Improvements				
- Excavate	189,950	cy	4.65	883,300
· Dewatering	32	ac	5,000.00	159,300
Access Road (6" Aggregate Base)	30,845	sy	5.19	160,100
- Fence, 6' Chainlink	37,014	lf	16.12	596,700
Redundancy Features to RD1000 Pumping Facilities				
- Backup pumping capacity and power supply	1	ls	TBD	
m. Mobilization/Demobilization (1%, not to exceed \$50,000)	1	ls	50,000.00	50,000
Subtotal - Regional Drainage Facilities				24,974,700
Land Acquisition	424	ac	37,500.00	15,909,100
Construction Contingencies (20%)				4,994,940
Administration, Engineering, and Environmental (15%				3,746,205
TOTAL REGIONAL DRAINAGE FACILITIES COST				49,624,945

- A portion of excavated volume is proposed as import for Sheds 9 and 11, see Tables 20 and 23.
 Dewatering cost is embedded in dewatering estimates for adjacent detention basins.
- 3. Channel Improvements summarized in this table reflect only the improvements necessary to optimize gravity drainage for the Sankey Detention volume after a Sankey Spill event.

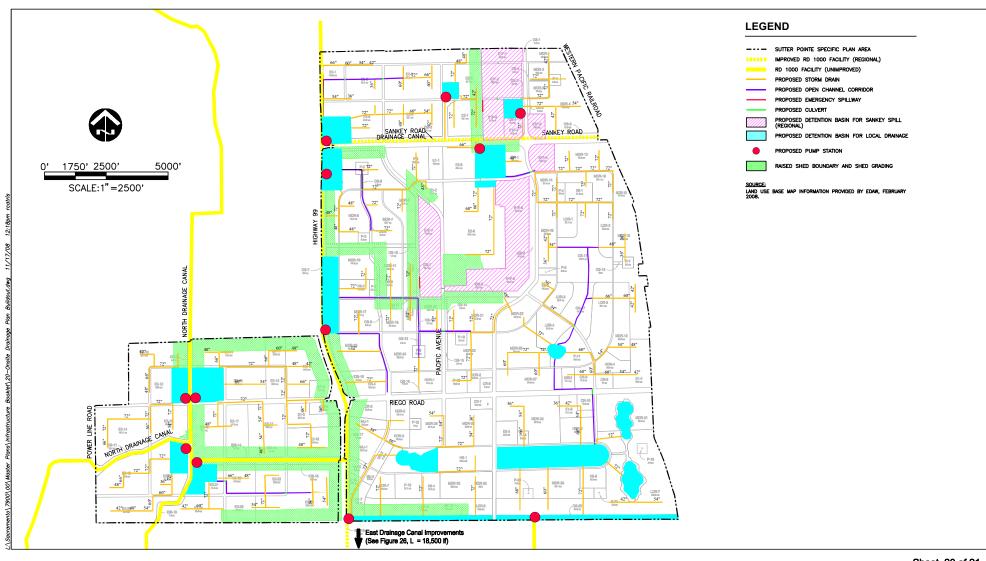


Sheet 19 of 21

SUTTER POINTE

On-Site Drainage Plan - Phase 1 and A



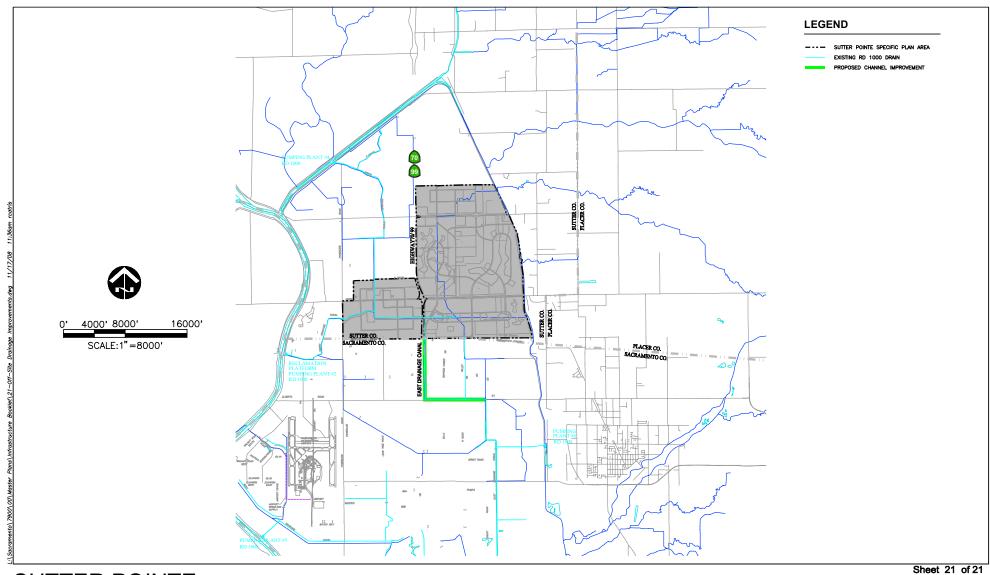


Sheet 20 of 21

On-Site Drainage Plan - Buildout



SUTTER POINTE



Off-Site Drainage Improvements



PRELIMINARY COST ESTIMATE NCMWC Agricultural Irrigation

SUTTER POINTE

Sutter County, California

November 14, 2008



PRELIMINARY COST ESTIMATE

Sutter Pointe - NCMWC Agricultural Irrigation Sutter County

Dated: November 14, 2008

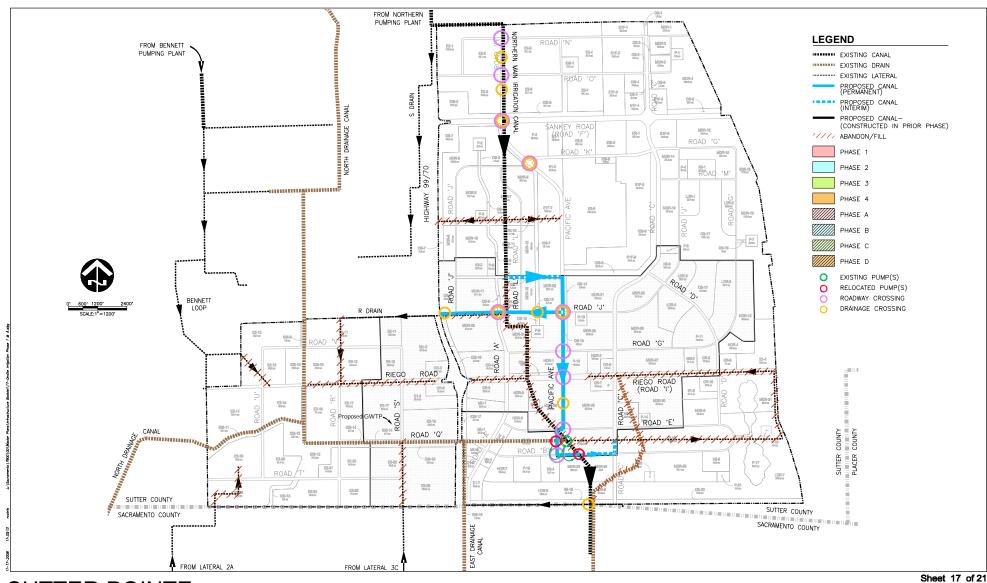
CONSTRUCTION COSTS	PHASE 1			IASE A	PHA	ASE 2	PHASE B		PHASE 3		PHASE C		PHASE 4		PHASE D		TOTAL		
ITEM DESCRIPTION No.	UNIT PRICE UNIT	QTY UNIT	AMOUNT	QTY UNI	T AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT	QTY UNIT	AMOUNT
1.0 - IRRIGATION CANAL																			
1.A PERMANENT CANAL		1								1				1				1	
Excavation (6.2 CY per LF of canal)	\$25.00 LF	12,520 LF	\$313,000	0 LF	\$0			5,150 LF	\$128,750		\$50,250	0 LF	\$0		\$52,000		\$88,500		\$632,500
2. Access Road (15' wide - 6"AB section)	\$30.00 LF	25,040 LF	\$751,200	0 LF	\$0	0 LF		10,300 LF	\$309,000	4,020 LF	\$120,600	0 LF	\$0	4,160 LF	\$124,800		\$212,400	50,600 LF	\$1,518,000
3. 6' Chain Link Fence	\$16.00 LF \$65,000.00 EA	25,040 LF	\$400,640	0 LF 0 EA	\$0	0 LF		10,300 LF	\$164,800	4,020 LF	\$64,320	0 LF	\$0 \$0	4,160 LF	\$66,560	7,080 LF	\$113,280	50,600 LF	\$809,600
Turnout (Headwall w/Gate) TOTAL BE	RMANENT CANAL	1 EA _	\$65,000 \$1,529,840	UEA	\$0 \$0	0 EA	\$0 \$0	0 EA	\$0 \$602,550	0 EA	\$0 \$235,170	0 EA	\$0 \$0	0 EA _	\$0 \$243,360	0 EA _	\$0	1 EA _	\$65,000
	RMANENT CANAL		\$1,529,640		\$ 0		\$ 0		\$602,550		\$235,170		\$0		\$243,360		\$414,180		\$3,025,100
INTERIM CANAL Excavation (6.2 CY per LF of canal)	\$25.00 LF	4,360 LF	\$109,000	0 LF	\$0	1,200 LF	\$30,000	1,120 LF	\$28,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	6,680 LF	\$167,000
2. Access Road (15' wide - 6"AB section)	\$30.00 LF	8,720 LF	\$261,600	0 LF	\$0	2,400 LF	\$72,000	2,240 LF	\$67,200	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	13,360 LF	\$400,80
3. 6' Chain Link Fence	\$16.00 LF	8,720 LF	\$139,520	0 LF	\$0	2,400 LF	\$38,400	2,240 LF	\$35,840	0 LF	\$0	0 LF	\$0	0 LF	\$0	0 LF	\$0	13,360 LF	\$213,760
4. Turnout (Headwall w/Gate)	\$65,000.00 EA	1 EA	\$65,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA	\$65,000
5. Relocate Existing Pump	\$50,000.00 EA	1 EA _	\$50,000	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	0 EA	\$0	1 EA _	\$50,000
TOTA	L INTERIM CANAL		\$625,120		\$0		\$140,400		\$131,040		\$0		\$0		\$0		\$0		\$896,56
1.C CROSSINGS																			
Headwall/Drop Structure	\$40,000.00 EA	18 EA	\$720,000	0 EA	\$0	0 EA	\$0	1 EA	\$40,000	2 EA	\$80,000	0 EA	\$0	2 EA	\$80,000	9 EA	\$360,000	32 EA	\$1,280,000
2. 8' x 10' Culvert/Crossing	\$650.00 LF	1,100 LF _	\$715,000	0 LF	\$0	0 LF	\$0	50 LF	\$32,500	180 LF	\$117,000	0 LF	\$0	100 LF	\$65,000	440 LF _	\$286,000	1,870 LF	\$1,215,500
	TAL CROSSINGS		\$1,435,000		\$0		\$0		\$72,500		\$197,000		\$0		\$145,000		\$646,000		\$2,495,500
2.0 - OTHER																			
2A. OTHER		1																	
Abandon Existing Irrigation Canal (12.5 CY per LF)	\$40.00 LF	8920 LF	\$356,800	0 LF	\$0	2230 LF	\$89,200	0 LF	\$0	4160 LF	\$166,400	0 LF	\$0	2230 LF	\$89,200	3980 LF	\$159,200	21,520 LF	\$860,800
Abandon Interim Irrigation Canal (6.2 CY per LF)	\$20.00 LF	0 LF _	\$0	0 LF	\$0	2120 LF	\$42,400	2240 LF	\$44,800	1200 LF	\$24,000	1120 LF	\$22,400	0 LF _	\$0	0 LF _	\$0	6,680 LF	\$133,600
	TOTAL OTHER		\$356,800		\$0		\$131,600		\$44,800		\$190,400		\$22,400		\$89,200		\$159,200		\$994,40
CONSTRUCTION COST ESTIMATE S	<u>UMMARY</u>																		
1.0 - IRRIGATION CANAL																			
1A. PERMANENT CANAL			\$1,529,840		\$0		\$0		\$602,550		\$235,170		\$0		\$243,360		\$414,180		\$3,025,10
1B. INTERIM CANAL			\$625,120		\$0		\$140,400		\$131,040		\$0		\$0		\$0		\$0		\$896,56
1C. CROSSINGS			\$1,435,000		\$0		\$0		\$72,500		\$197,000		\$0		\$145,000		\$646,000		\$2,495,500
2.0 - OTHER			V 1, 100,000		**		40		Ų. <u>1,000</u>		\$101,000		4 5		V 1.0,000		40.0,000		4 2, 100,000
2A. OTHER			\$356,800		\$0		\$131,600		\$44,800		\$190,400		\$22,400		\$89,200		\$159,200		\$994,40
																			_
	nstruction Costs		\$3,946,760		\$0		\$272,000		\$850,890		\$622,570		\$22,400		\$477,560		\$1,219,380		\$7,411,560
_	ering/Inspection		\$592,014		\$0		\$40,800		\$127,634		\$93,386		\$3,360		\$71,634		\$182,907		\$1,111,73
2	0% Contingency	=	\$789,352		\$0		\$54,400		\$170,178		\$124,514		\$4,480	=	\$95,512	=	\$243,876	<u>-</u>	\$1,482,31

NOTES

SUTTER POINTE SPECIFIC PLAN NCMWC Agricultural Irrigation

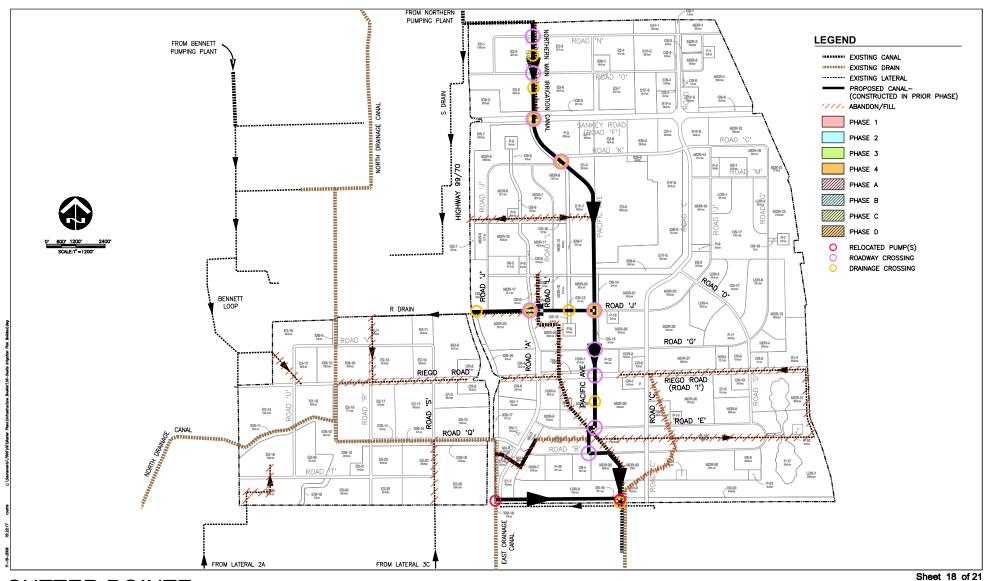
Sutter County California

- 1. This estimate is prepared as a guide only and is subject to possible change. It has been prepared to a standard of accuracy which, to the best of our knowledge and judgment, is sufficient to satisfy our understanding of the purpose of this estimate. MacKay & Somps makes no warranty, either expressed or implied, as to the accuracy of this estimate.
- 2. This estimate is based on the Conceptual Plan for Natomas Central Mutual Water Company (NCMWC) Agricultural Irrigation for Sutter Pointe Specific Plan, dated March 21, 2008 by MacKay & Somps. The Conceptual Plan has not been reviewed or approved by NCMWC. Minor adjustments have been made to individual phases, subsequent to March, 2008.
- 3. The Conceptual Irrigation Plan is predicated on keeping as much agricultural land irrigated as possible as development progresses.
- 4. The Conceptual Irrigation Plan is not the result of detailed engineering studies and is schematic in nature.
- 5. The interim and permanent canal facilities have been designed to convey the maximum capacity of the Northern Pumping Plant (240 cfs). The prelim. canal design is trapezoidal with a 10-foot bottom width, 2:1 side slopes, maximum depth of 6 feet, and 1-foot freeboard. There will be a 15-foot wide access road and 6-foot chain link fence on both sides. The approximate corridor width is 70 feet.
- 6. This estimate does not consider the following:
 - a. Cost associated with environmental (wetland) mitigations or biological surveys
 - b. Phased construction or out-of-regular-sequence construction
 - c. Financial Charges
 - d. Bonds
 - e. Land costs, acquisition of right of way, easements, and/or rights of entry
 - f. Assessments from assessment, lighting & landscaping, Mello-Roos districts or the like
- 7. Costs presented herein represent an opinion based on historical information. No provision has been made for inflation.
- 8. Costs have been been tabulated and extracted for Phase as well as annual costs according the SPSP Conceptual Phasing Plan dated March 10, 2008.
- 9. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- 10. Interim improvements may be required depending on development timing of individual units.



On-Site Irrigation Plan - Phase 1 and A





On-Site Irrigation Plan - Buildout



PRELIMINARY COST ESTIMATE DRY UTILITIES MASTER PLAN

SUTTER POINTE

November 14, 2008



PRELIMINARY COST ESTIMATE

Sutter Pointe Dry Utilities Master Plan Sutter County

November 14, 2008

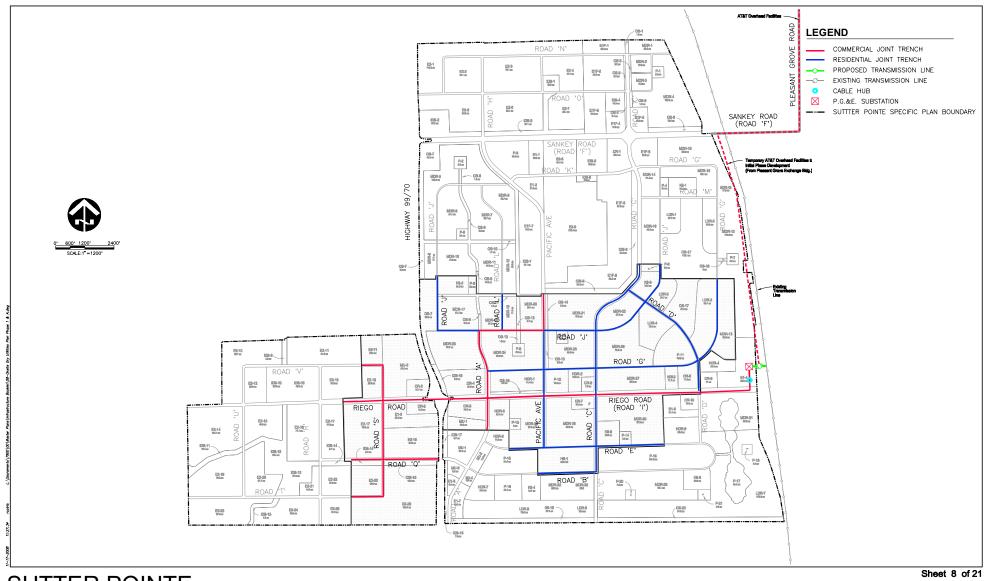
CONSTRUCTION COSTS		PHA	SE 1	РНА	ISE A	PH.	ASE 2	PHA	ASE B	PH/	ASE 3	PHA	ISE C	РН	ASE 4	PH	ASE D	то	DTAL
ITEM DESCRIPTION	UNIT PRICE UNIT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>	QTY UNIT	AMOUNT	QTY UNIT	<u>AMOUNT</u>
1. ONSITE																			
A. ONSITE JOINT TRENCHING 1. Residential Joint Trenching	\$70.00 LF	51,500 LF	\$3,605,000	0 LF	\$0	27,000 LF	\$1,890,000	0 LF	\$0	15,000 LF	\$1,050,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	93,500 LF	\$6,545,000
2. PG&E Contract Fees (Residential)	\$100.00 LF	51,500 LF	\$5,150,000	0 LF	\$0	27,000 LF	\$2,700,000	0 LF	\$0	15,000 LF	\$1,500,000	0 LF	\$0	0 LF	\$0	0 LF	\$0	93,500 LF	\$9,350,000
3. Commercial Joint Trenching	\$88.00 LF	20,000 LF	\$1,760,000	16,000 LF	\$1,408,000	9,500 LF	\$836,000	24,000 LF	\$2,112,000	9,500 LF	\$836,000	21,000 LF	\$1,848,000	14,500 LF	\$1,276,000	32,000 LF	\$2,816,000	146,500 LF	\$12,892,000
4. PG&E Contract Fees (Commercial)	\$100.00 LF	20,000 LF	\$2,000,000	16,000 LF	\$1,600,000	9,500 LF	\$950,000	24,000 LF	\$2,400,000	9,500 LF	\$950,000	21,000 LF	\$2,100,000	14,500 LF	\$1,450,000	32,000 LF	\$3,200,000	146,500 LF	\$14,650,000
5. Bore and Jack under HWY 99/70 (48" casing)	\$1,200.00 LF	600 LF	\$720,000	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF	\$0	0 LF	\$0	600 LF _	\$720,000
Total Onsite Joi	int Trenching		\$13,235,000		\$3,008,000		\$6,376,000		\$4,512,000		\$4,336,000		\$3,948,000		\$2,726,000)	\$6,016,000		\$44,157,000
B. ONSITE PG&E FACILITIES 1. PG&E Overhead Electric to Substation (PG&E Resp.)	\$0.00 TBD	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0
2. PG&E Electric Substation (PG&E Resp.)	\$0.00 TBD	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0	TBD TBD	\$0
PG&E Gas Regulator Station (Underground Facility)	\$300,000.00 EA	1 EA _	\$300,000	0 EA _	\$0	0 EA _	\$0	0 EA	\$0	0 EA _	\$0	0 EA	\$0	0 EA	\$0	<u>0</u> 0 EA	\$0	1 EA _	\$300,000
Total Onsite PG	G&E Facilities		\$300,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$300,000
2. OFFSITE																			
A. OFFSITE GAS 1. 2" PG&E Gas (From Locust Dr./W Los Garcia) (Developers obligation only - to closest point of connection)	\$30.00 LF	11,000 LF _	\$330,000	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF _	\$0	0 LF	\$0	_ 0 LF _	\$0_	11,000 LF _	\$330,000
	al Offsite Gas		\$330,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$330,000
B. OFFSITE PHONE 1. SBC Facilities (Offsite - Extension from the North)	\$250,000.00 LS	1 LS _	\$250,000	0 LS _	\$0	0 LS _	\$0	0 LS _	\$0_	0 LS _	\$0	0 LS _	\$0_	0 LS	\$0	0 LS _	\$0	1 LS _	\$250,000
Total 0	Offsite Phone		\$250,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$250,000
D. OFFSITE CABLE 1. Comcast Cable (Comcast Resp.)	\$0.00 LS	0 LS _	\$0	0 LS _	\$0	0 LS _	\$0	0 LS _	\$0_	0 LS _	\$0	0 LS _	\$0_	0 LS	\$0	0 LS _	\$0_	0 LS _	\$0
Total	Offsite Cable		\$0		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$0
DRY UTILITIES CONSTRUCTION COST SUMMARY																			
A. ONSITE JOINT TRENCHING			\$13,235,000		\$3,008,000		\$6,376,000		\$4,512,000		\$4,336,000		\$3,948,000		\$2,726,000)	\$6,016,000		\$44,157,000
50%	6 Reimbursable option	n	(\$3,575,000)		(\$800,000)	_	(\$1,825,000)	. <u>-</u>	(\$1,200,000)	_	(\$1,225,000)	. –	(\$1,050,000)	-	(\$725,000	<u>.</u>	(\$1,600,000)	_	(\$12,000,000)
Total	Joint Trenching Costs	3	\$9,660,000		\$2,208,000		\$4,551,000		\$3,312,000		\$3,111,000		\$2,898,000		\$2,001,000)	\$4,416,000		\$32,157,000
B. ONSITE PG&E FACILITIES			\$300,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$300,000
C. OFFSITE GAS			\$330,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$330,000
D. OFFSITE PHONE			\$250,000		\$0		\$0		\$0		\$0		\$0		\$0)	\$0		\$250,000
E. OFFSITE CABLE		_	\$0		\$0	_	\$0		\$0	_	\$0		\$0	-	\$0	<u>-</u>	\$0	_	\$0
Subtot	tal Construction Costs	s	\$10,540,000		\$2,208,000		\$4,551,000		\$3,312,000		\$3,111,000		\$2,898,000		\$2,001,000)	\$4,416,000		\$33,037,000
15% Er	ngineering/Inspection 20% Contingency		\$1,581,000 \$2,108,000		\$331,200 \$441,600	=	\$682,650 \$910,200		\$496,800 \$662,400	=	\$466,650 \$622,200		\$434,700 \$579,600		\$300,150 \$400,200		\$662,400 \$883,200	=	\$4,955,550 \$6,607,400
GRAND TOTAL	DRY UTILITIES COST	г	\$14,229,000		\$2,980,800		\$6,143,850		\$4,471,200		\$4,199,850		\$3,912,300		\$2,701,350)	\$5,961,600		\$44,599,950

NOTES

Sutter Pointe Master Plan - Dry Utilities

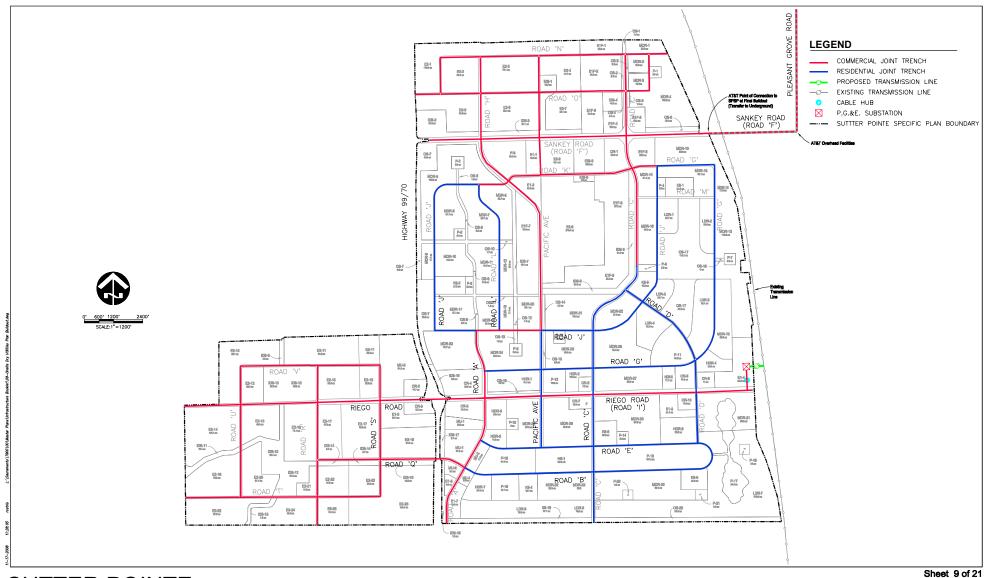
Sutter County, California

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- 2. This estimate does not consider the following:
 - a. Cost associated with environmental (wetland) mitigations or biological surveys
 - b. Costs associated with ground water or inclement weather conditions
 - c. Financial Charges
 - d. Bonds
 - e. Land costs, acquisition of right of way, easements, and/or rights of entry
 - f. Assessments from assessment, lighting & landscaping, Mello-Roos districts or the like
- 3. Costs presented herein represent an opinion based on historical information. No provision has been made for inflation.
- 4. Phasing costs for residential and commercial (Phase 1+A to 4+D), have been determined based on the Conceptu Phasing Plan, dated March 6, 2008, prepared by MacKay and Somps.
- 5. The "cash flow" situation may be different than the fees, credits, and reimbursements itemized in this estimate.
- 6. Interim improvements may be required depending on development timing of individual units.
- 7. For the purposes of this estimate, it has been assumed that the developer will choose the "non-refundable discount option" from PG&E. It has been assumed that the non-refundable discount will be equal to \$50/LF of residential and commercial joint trench construction.
- 8. Gas regulator station is considered part of the onsite gas distribution, and developer responsibility. The cost for the regulator station assumes and undergound factility, which is more aestetically pleasing. If an above ground facility is used, assume \$200,000 for facility.
- 9. Cost of offsite phone extension is based on 3/4 difference between aerial and undergound design. (+/-\$250,000 according to AT&T, exact amount to be determined)
- 10. Developer responsibility for offsite gas is to closest point of connnection, which at current time, is from the intersection of Locust & Los Garcia, 2 miles SPSP southeasterly, in Rio Linda.
- 12. All costs are plreliminary and subject to change, as well as negotiations with purveyors.



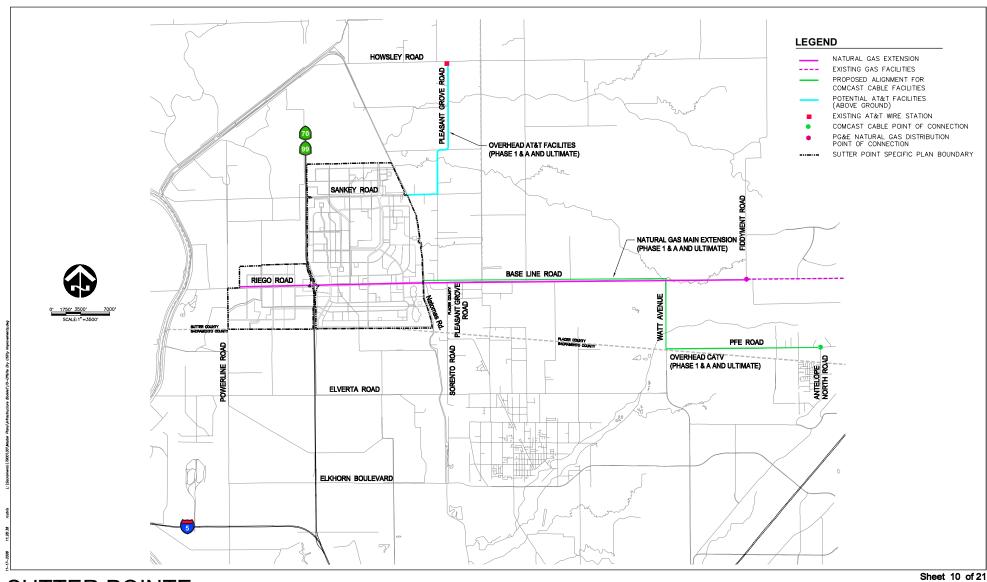
On-Site Dry Utilities Plan - Phase 1 and A





On-Site Dry Utilities Plan - Buildout





Off-Site Dry Utility Improvements





Public Finance
Real Estate Economics
Regional Economics
Land Use Policy

APPENDIX B

PUBLIC FACILITIES COSTS

Several Public Facility items are to be funded through the SPSP. Many of the actual costs for these items are not available yet, as more detailed information about the actual facilities or detailed studies are not available at this time. Therefore, several assumptions based on data from the developer or from similar projects were made to estimate facility costs. These assumptions are shown in **Table B-1**. For each Public Facility, an estimated size is shown (if available) and a cost factor is estimated. Many of the Public Facility costs shown are estimates at this time and are subject to change.

Table B-1	Summar	of Public Facilities and Cost	sB-1
-----------	--------	-------------------------------	------

Table B-1
Sutter Pointe Specific Plan
Public Facilities Financing Plan
Summary of Public Facilities and Costs

Public Facility	Size	Unit	Cost Factor	Total Estimated Cost
Library [1]	12,000	Sq. Ft.	\$350 per sq. ft.	\$4,200,000
Transit [2]	15	Acres		\$8,000,000
Fire				
Station 1	11,810	Sq. Ft.	Table 15-1	\$9,689,000
Station 2	6,120	Sq. Ft.		\$5,255,000
Station 3	6,120	Sq. Ft.		\$3,635,000
Support Facilities (admin. office, vehicle maintenance,	etc.)			\$8,496,000
Total Fire				\$27,075,000
Trails [3]	56,000	LF	\$100 per lineal ft.	\$5,600,000
Parks				\$62,765,000
Open Space [3]	395	Acres	\$13,068 per acre	\$5,159,246
Government Building				
Government Center [5]	55,500	Sq. Ft.	\$250 per sq. ft.	\$13,875,000
Sheriff Station	24,000	Sq. Ft.	\$420 per sq. ft.	\$10,080,000
Total Government Building	79,500	3 4	φ .=σ pσ. σq	\$23,955,000
Corporation Yard [6]				
Building Sq. Ft.	68,000	Sq. Ft.	\$200 per sq. ft.	\$13,600,000
Site Preparation	204,732	Sq. Ft.	\$5 per sq. ft.	\$1,023,660
Total Corporation Yard	272,732	- 4	40 PO. 041 III	\$14,623,660
Total Corporation Taru	212,132			₹14,023,000

[&]quot;public_facilities"

^[1] According to Lennar, there will be a total of 24,000 square feet of library space. However, 12,000 square feet is already funded through the high school construction costs. Cost of \$350 per square foot is an estimate and may be adjusted as more detailed facility cost information becomes available.

^[2] Estimate provided by Lennar. Operations are not covered by the financing plan, and therefore are not included in this table.

^[3] Estimate provided by Lennar.

^[4] Park costs estimates provided by Lennar. See Table 9-1.

Detailed facility cost estimates will be available when the Park Master Plan is available.

^[5] EPS estimate based on commercial building construction costs. Square footage provided by EDAW.

^[6] This is a rough estimate provided by EPS.



Public Finance
Real Estate Economics
Regional Economics
Land Use Policy

APPENDIX C

EXISTING FUNDING SOURCES

EXISTING FEE PROGRAMS

The following existing fee programs apply to the SPSP.

SUTTER COUNTY DEVELOPMENT IMPACT FEE

Sutter County has a development impact fee that typically would fund the following items for the SPSP:

- County General Government.
- Courts/Criminal Justice.
- Sheriff.
- Health and Social Services.

If no SP Fee Program were being proposed, the full amount of these fee components would apply to the SPSP. However, EPS has assumed that a 50 percent placeholder overlap exists between the County General Government, Sheriff, and Health and Social Services components and the proposed SP Fee Program.

EPS has adjusted the Sutter County Development Impact Fee to net out overlap with these, based on placeholder assumptions, pending additional information from the County and/or Development Impact Fee Nexus Study. **Table C-1** shows this estimated adjustment. Therefore, the Sutter County Development Impact Fee shown in the Financing Plan has been reduced to account for this overlap. Actual overlap may differ from this estimate, and must be finalized.

Estimated revenue from the adjusted Sutter County Development Impact fee is shown in **Table C-2**.

SUTTER COUNTY PROCESSING FEES

Processing fees apply to all new development within a county and are payable to the County at building permit. They include a fee for building permit, plan review, seismic/strong motion, and air pollution.

SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT FEE

Sacramento Regional County Sanitation District (SRCSD) provides sewer collection, conveyance, and treatment of wastewater to the Sacramento County area. The current SRCSD connection fee is \$7,450 per Equivalent Standard Dwelling (ESD) in new communities. Each multifamily dwelling unit rate is 0.75 ESD. The County of Sacramento maintains a list of ESD Equivalent Factors for commercial users. For example, an office building with less than 200,000 square feet is given the rate of 0.20 ESD/1,000 square fee of gross floor area. Fee revenue generated from the SRCSD fee contributes to sewer system infrastructure such as the collection system and treatment plant.

NATOMAS BASIN HABITAT CONSERVANCY PROGRAM FEE

The current rate for the Natomas Basin Habitat Conservancy Program (NBHCP) is \$38,133 per acre. This rate includes a land acquisition component. They fee may be reduced to \$20,633 per acre, if for every acre of development the developer dedicates a half-acre of land. The mitigation fees are used acquire, restore, and manage mitigation lands to provide habitat for protected species and to maintain agriculture in the Natomas Basin.

SACRAMENTO AREA FLOOD CONTROL AGENCY FEE

The recently implemented Sacramento Area Flood Control Agency (SAFCA) fee is charged on a per-square-foot basis for new structure habitable square footage (i.e., conditioned space.) The fee does not apply to decks, porches, garages, awnings, or balconies. The revenue generated will provide additional flood protection to offset increased risk of damage during a flood as a result of a new development.

SCHOOL DISTRICT MITIGATION FEES

Currently Pleasant Grove Elementary School District and East Nicholas Joint Union High School District have adopted Level 1 school fees pursuant to Government Code section 65995. It is expected that approval of tentative tract maps will allow the districts to adopt Level 2 school fees for residential construction pursuant to Government Code section 65995.5.

LAND SECURED DEBT FINANCING SOURCES

ASSESSMENT DISTRICT

California statutes give local governments the authority to levy several special assessments for specific public improvements such as streets, storm drains, sewers, streetlights, curbs, gutters, and sidewalks. Creation of a special assessment district defines both the area to benefit from the improvements and the properties that will pay for the improvements. Thereafter, each property in the district will be assessed a share of the cost of improvements that is proportional to the benefit it receives from those improvements.

There is a variety of assessment district acts available to finance Public Facilities. The most frequently used assessment district is the Improvement Bond Act of 1915. This act also provides a vehicle for issuing assessment bonds for assessments authorized under the 1911 and 1913 Benefit Assessment Acts.

Facilities that could be funded by Assessment Districts include major roads, sewer, water, and drainage improvements when there is direct benefit to specific parcels. The establishment of Assessment Districts will be subject to the provisions of Proposition 218, which was adopted in November 1996. These provisions, among other things, require a vote of property owners being assessed with the vote weighted by the amount of property assessment.

MELLO-ROOS CFD

Adopted in 1982, the Mello-Roos Community Facilities Act provides a method for local governments to fund public facilities and certain services, particularly for newly developing areas. Items that may be financed through a CFD include these:

- Real or tangible property with an estimated useful life of five years or more which is or will be constructed, owned, or operated by a public entity;
- Facilities which confer special benefits such as streets, water, sewer and drainage
 facilities as well as facilities providing general benefit such as parks, schools,
 libraries, child care facilities, jails and administration facilities; and
- Public services such as Police protection services; fire protection, suppression services, and ambulance and paramedic services; recreation program services, library services, and the operation and maintenance of parks, parkways, open space, museums and cultural facilities; flood and storm protection services, including the operation and maintenance of storm drainage systems and sandstorm protection systems; and removal or remedial action for the cleanup of any hazardous substance released or threatened to be released into the environment.

A local government is empowered to levy CFD special taxes and issue bonds authorized by a two-thirds vote of qualified electors of the district. The formation process will require a public hearing, as well as a recorded boundary map, hearing report, a Rate and Method of Apportionment, and an election.

LIST OF TABLES

Table C-1	Sutter County Development Impact Fee —	
	Allocation to Sutter Pointe	C-1
Table C-2	Estimated Sutter County Development Impact Fee Revenue	C-2

Table C-1
Sutter Pointe Specific Plan
Public Facilities Financing Plan
Sutter County Development Impact Fee - Allocation to Sutter Pointe

Sutter County Development	Assumed Allocation Factor for			Porcontar	ge Allocation			
Impact Fee Component	Sutter Pointe	Single Family [1]	Duplex/Fourplex	Multifamily	Mobile Homes	Office	Commercial	Industrial
County General Government	50%	5.54%	5.41%	5.78%	5.46%	11.57%	4.47%	12.09%
Courts/Criminal Justice	100%	9.78%	9.55%	10.18%	9.63%	20.41%	7.87%	21.33%
Library	0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sheriff	50%	1.44%	1.40%	1.49%	1.41%	2.99%	1.16%	3.13%
Fire	0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Health and Social Services	50%	3.35%	3.27%	3.49%	3.30%	0.00%	0.00%	0.00%
Urban Area: Parks & Rec.	0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Urban Area: Library	0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Urban Area: Roads	0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		20.10%	19.63%	20.93%	19.80%	34.97%	13.49%	36.54%
			Per Unit Co	ost		Cos	et per Square Foot	
Gross Sutter County Developme	ent Impact Fee	\$2,477	\$2,301	\$1,888	\$1,584.00	\$0.35	\$0.94	\$0.37
Adjusted Fee For Sutter Pointe		\$498	\$452	\$395	\$314	\$0.12	\$0.13	\$0.14

[&]quot;impact_alloc"

^[1] Represents the percent of total fee component that will apply to Sutter Pointe for development in Impact Fee Area 1. These place holder allocations were made by EPS and are subject to modification pending additional information from the County and/or Development Impact Fee Nexus Study.

DRAFT

Table C-2
Sutter Pointe Specific Plan
Public Facilities Financing Plan
Estimated Sutter County Development Impact Fee Revenue

		Sutter County Develo	pment Impact Fee
	Units/	Adjusted	Estimated
Land Use	Sq. Ft.	Fee [1]	Revenue
Residential	units		
Low-Density	1,461	\$498	\$727,398
Medium-Density	12,014	\$498	\$5,981,494
High-Density	4,025	\$395	\$1,590,513
Subtotal Residential	17,500		\$8,299,405
Nonresidential	sq. ft.		
Commercial Retail	4,092,000	\$0.13	\$518,890
Office	4,214,000	\$0.12	\$515,699
Industrial	41,407,000	\$0.14	\$5,598,144
Subtotal Nonresidential	49,713,000		\$6,632,733

Total Sutter County Development Impact Fee Revenue

\$14,932,138

"dev_rev"

^[1] EPS has assumed that portions of the Sutter County Development Impact Fee will overlap with the SP Fee Program. Therefore, EPS has adjusted this fee to net out overlap. The adjustments are estimates at this time, and are subject to change as further information becomes available. See Table C-1 for adjustment detail.



Public Finance
Real Estate Economics
Regional Economics
Land Use Policy

APPENDIX D

COST ALLOCATION METHODOLOGY

The basis for calculating all development impact fees is the Cost Allocation Method (CAM). The CAM uses dwelling unit equivalent (DUE) factors to spread the cost of backbone infrastructure and other Public Facilities over the developed land uses. Assuming that the extent, timing, and cost of all infrastructure not covered by existing fee programs and other funding mechanisms required to serve the project has been obtained, the steps in the CAM process are as follows:

- *Step 1:* Determine appropriate DUE factors for each land use or zoning category.
- Step 2: Determine cost allocation. Use DUE factors to allocate infrastructure costs to individual land use or zoning categories for each infrastructure facility. Apply the appropriate DUE factors to the acreage of each proposed zoning category to determine the percentage cost allocation. For purposes of estimating DUEs, certain assumptions were made on the percent allocation of allowable zoning categories in each land use designation of the community plan.
- *Step 3*: Allocate the cost of the various improvements to each benefiting land use by multiplying the total cost for each improvement by the percentage allocation of costs for each land use.
- *Step 4:* Divide the total cost allocated to each land use–zoning category by total acreage, units, or square feet of land uses.

The fees in a financing plan are preliminary and subject to change when the actual fee program is established via completion of a nexus study. The per-unit or per-acre fees in the financing plan are usually updated in the nexus study because of additional contingencies included in the nexus study to avoid under-funding the fee program, and because of updated or more detailed facility cost estimates.

Development impact fees are set under the conditions of Government Code 66000 *et seq.*, which is also known as AB 1600. These code sections set forth the procedural requirements for establishing and collecting development impact fees. The AB 1600 procedures require that "a reasonable relationship or nexus must exist between a governmental exaction and the purpose of the condition." Specifically, each local agency imposing a fee must perform the following tasks:

- Identify the purpose of the fee.
- Identify how the fee is to be used.
- Determine how a reasonable relationship exists between the need for the Public Facility and the type of development project on which the fee is imposed.
- Demonstrate a reasonable relationship between the amount of the fee and the
 cost of Public Facility or portion of the Public Facility attributable to the
 development on which the fee is imposed.

The agency will adopt the appropriate fee ordinance and resolution to implement the fee. The timing and payment of the fee will be specified in the implementing ordinance and resolution.



Public Finance
Real Estate Economics
Regional Economics
Land Use Policy

APPENDIX E

TOTAL INFRASTRUCTURE BURDEN

The tables in this appendix are intended to detail the infrastructure burden in the SPSP. **Chart E-1** and **Tables E-1** through **E-5** compare the total infrastructure burden for a typical medium-density single-family unit in the SPSP with that burden in other nearby plan areas. The total infrastructure burden includes County processing fees, development impact fees, plan-area specific fees, school fees, and infrastructure bond debt.

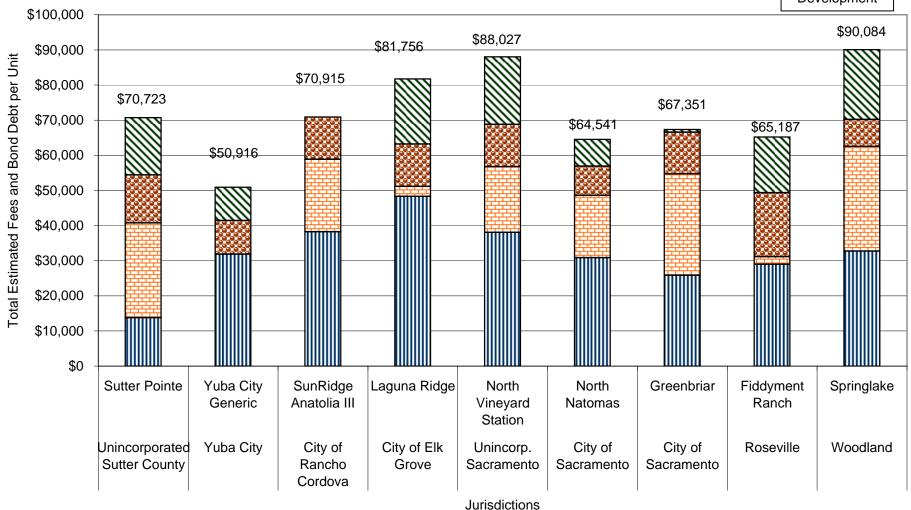
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DRAFT

Chart E-1
Infrastructure Burden Comparison for
Medium-Density Single-Family Development
(2,200-Sq.-Ft. Unit, 5 Units per Acre)

Single-Family Development



☐ City/County ☐ Plan Area ☐ School Mitigation ☐ Bond Debt

"summary"

Table E-1 SINGLE-FAMILY HOMES Summary of Infrastructure Costs per Unit 2,000-Sq.-Ft. Home, 450-Sq.-Ft. Garage, 3 Bedrooms 2 Bathrooms, 6 Units per Net Acre

Unincorporated Sutter Pointe	Yuba City Yuba City	Rancho Cordova SunRidge		Unincorporated	Sacram	onto	Boogwille	Woodland
	•	SunDidgo		p	Sacramento		Roseville	vvoodiand
Pointe	0	Suriklage	Laguna Ridge	North Vineyard	North Natomas		Fiddyment	
	Generic	Anatolia III	Central Shed	Station	Quad 2, Basin 1	Greenbriar	Ranch	Springlake
Jun-08	Apr-08	Mar-08	Mar-08	Mar-08	Mar-08	Mar-08	Jan-08	Feb-08
\$13,802	\$31,897	\$38,264	\$48,334	\$38,053	\$30,877	\$25,858	\$28,990	\$32,733
\$26,947	\$0	\$20,605	\$2,807	\$18,712	\$17,700	\$28,881	\$2,162	\$29,773
\$13,686	\$9,552	\$12,045	\$12,045	\$12,045	\$8,360	\$11,835	\$18,224	\$7,700
\$16,288	\$9,466	\$0	\$18,570	\$19,217	\$7,604	\$777	\$15,810	\$19,878
\$70,723	\$50,916	\$70,915	\$81,756	\$88,027	\$64,541	\$67,351	\$65,187	\$90,084
\$54,435	\$31,897	\$68,750	\$61,021	\$66,645	\$56,937	\$66,574	\$49,377	\$70,206
\$1,313	\$1,841	\$200	\$1,730	\$1,657	\$914	\$63	\$1,061	\$1,804
	\$13,802 \$26,947 \$13,686 \$16,288 \$70,723	\$13,802 \$31,897 \$26,947 \$0 \$13,686 \$9,552 \$16,288 \$9,466 \$70,723 \$50,916 \$54,435 \$31,897	\$13,802 \$31,897 \$38,264 \$26,947 \$0 \$20,605 \$13,686 \$9,552 \$12,045 \$16,288 \$9,466 \$0 \$70,723 \$50,916 \$70,915 \$54,435 \$31,897 \$68,750	\$13,802 \$31,897 \$38,264 \$48,334 \$26,947 \$0 \$20,605 \$2,807 \$13,686 \$9,552 \$12,045 \$12,045 \$16,288 \$9,466 \$0 \$18,570 \$70,723 \$50,916 \$70,915 \$81,756 \$54,435 \$31,897 \$68,750 \$61,021	\$13,802 \$31,897 \$38,264 \$48,334 \$38,053 \$26,947 \$0 \$20,605 \$2,807 \$18,712 \$13,686 \$9,552 \$12,045 \$12,045 \$12,045 \$16,288 \$9,466 \$0 \$18,570 \$19,217 \$70,723 \$50,916 \$70,915 \$81,756 \$88,027 \$54,435 \$31,897 \$68,750 \$61,021 \$66,645	\$13,802 \$31,897 \$38,264 \$48,334 \$38,053 \$30,877 \$26,947 \$0 \$20,605 \$2,807 \$18,712 \$17,700 \$13,686 \$9,552 \$12,045 \$12,045 \$12,045 \$8,360 \$16,288 \$9,466 \$0 \$18,570 \$19,217 \$7,604 \$70,723 \$50,916 \$70,915 \$81,756 \$88,027 \$64,541 \$54,435 \$31,897 \$68,750 \$61,021 \$66,645 \$56,937	\$13,802 \$31,897 \$38,264 \$48,334 \$38,053 \$30,877 \$25,858 \$26,947 \$0 \$20,605 \$2,807 \$18,712 \$17,700 \$28,881 \$13,686 \$9,552 \$12,045 \$12,045 \$12,045 \$8,360 \$11,835 \$16,288 \$9,466 \$0 \$18,570 \$19,217 \$7,604 \$777 \$70,723 \$50,916 \$70,915 \$81,756 \$88,027 \$64,541 \$67,351 \$54,435 \$31,897 \$68,750 \$61,021 \$66,645 \$56,937 \$66,574	\$13,802 \$31,897 \$38,264 \$48,334 \$38,053 \$30,877 \$25,858 \$28,990 \$26,947 \$0 \$20,605 \$2,807 \$18,712 \$17,700 \$28,881 \$2,162 \$13,686 \$9,552 \$12,045 \$12,045 \$12,045 \$8,360 \$11,835 \$18,224 \$16,288 \$9,466 \$0 \$18,570 \$19,217 \$7,604 \$777 \$15,810 \$70,723 \$50,916 \$70,915 \$81,756 \$88,027 \$64,541 \$67,351 \$65,187 \$54,435 \$31,897 \$68,750 \$61,021 \$66,645 \$56,937 \$66,574 \$49,377

Sources: Various Cities and Counties; and EPS.

Table E-2 SINGLE-FAMILY HOMES City/County Development Impact Fees per Unit 2,000-Sq.-Ft. Home, 450-Sq.-Ft. Garage, 3 Bedrooms 2 Bathrooms, 6 Units per Net Acre

	Sutter Co	ounty		Sacrame	nto County			Placer County	Yolo County
City/County Development Impact Fees per	Unincorporated	Yuba City	Rancho Cordova [1]	Elk Grove	Unincorporated [2]	Sacram	nento	Roseville	Woodland
Unit: These are fees charged by the City or County	Sutter	Yuba City	SunRidge	Laguna Ridge	North Vineyard	North Natomas		Fiddyment	
and do not include fees for a special plan area.	Pointe	Generic	Anatolia III	Central Shed	Station	Quad 2, Basin 1	Greenbriar	Ranch	Springlake
Current as of	Jun-08	Apr-08	Mar-08	Mar-08	Mar-08	Mar-08	Mar-08	Jan-08	Feb-08
CITY/COUNTY FEES PER UNIT									
Processing Fees per Unit [3]									
Building Permit	\$1,498	\$1,967	\$1,498	\$989	\$2,192	\$1,728	\$1,728	\$1,371	\$1,497
Plan Check	\$974	\$983	\$499	\$658	\$1,462	\$726	\$726	\$822	\$973
Energy Fee	-	-	-	-	· -	-	-	-	-
Technology Surcharge	-	-	-	\$79	-	\$98	\$98	-	-
Seismic / Strong Motion	\$19	\$20	\$21	-	\$24	\$20	\$20	\$20	\$19
Fire Review Fee	-	\$206	\$140	-	\$140	-	-	-	-
Other Building Permit or Processing Fees	\$15	\$15	\$451	\$257	\$696	-	-	-	-
Total Processing Fees per Unit	\$2,505	\$3,191	\$2,609	\$1,982	\$4,514	\$2,571	\$2,571	\$2,212	\$2,489
Development Impact Fees per Unit									
Sewer [4]	\$7,450	\$5,100	\$9,950	\$9,950	\$9,950	\$9,950	\$7,450	\$6,120	\$5,105
Water	-	\$10,613	\$12,755	\$12,755	\$12,755	\$5,076	\$5,076	\$4,675	\$3,166
Zone 40 Special Services Area A Fee	-	-	-	\$724	-	-	-		
Traffic	-	-	\$6,025	\$10,258	\$3,685	\$1,566	\$1,566	\$1,983	\$6,281
Transit [5]	-	-	\$175	-	-	-	-	-	-
Regional Traffic Fees	-	-	-	-	-	-	-	\$886	-
Drainage	-	\$368	\$2,466	\$2,466	\$2,466	-	-	\$393	-
Parks - Neighborhood	-	-	-	-	-	-	-	\$3,121	-
Parks - City-wide	-	-	-	-	-	\$4,843	\$4,843	\$2,010	\$6,395
Fire/Police	-	-	\$1,120	\$1,691	\$1,120	-	-	\$983	\$2,814
In-Lieu Flood Protection Fees	-	-	-	-	-	-	-	-	-
Habitat / Greenbelt Preservation [6]	\$3,349	-	-	-	\$3,563	\$6,408	\$3,439	-	\$1,443
Affordable Housing	-	-	-	\$4,335	-	-	-	-	-
Capital Improvements/Public Facilities	-	\$12,401	\$3,165	\$4,002	-	-	-	\$2,426	\$2,144
Other General Fees/One-Time Taxes [7]	-	\$224	-	\$171	-	\$463	\$913	\$2,410	\$212
Countywide Fees	\$498	-	-	-	-	-	-	\$1,771	\$2,684
Total Development Impact Fees per Unit	\$11,297	\$28,707	\$35,656	\$46,352	\$33,539	\$28,306	\$23,287	\$26,778	\$30,244
TOTAL CITY/COUNTY FEES PER UNIT	\$13,802	\$31,897	\$38,264	\$48,334	\$38,053	\$30,877	\$25,858	\$28,990	\$32,733

Sources: Various Cities and Counties; and EPS.

"city county"

^[1] This analysis assumes that the Rancho Cordova plan review fee is for production homes and was reduced by 50%.

^[2] All development in Unincorporated Sacramento County will be subject to the County's affordable housing ordinance. Depending on the size and other characteristics of the development project, options to meet the requirements of the ordinance include constructing affordable units, providing land for affordable developments, and/or paying a fee. This analysis does not include the estimated affordable housing cost.

^[3] Processing fees exclude mechanical, electrical, plumbing and other similar review fees.

^[4] This analysis assumes that Sacramento Regional County Sanitation District will provide sanitary sewer treatment and disposal service to Sutter Pointe.

^[5] Sacramento County Traffic and Transit Fees that impact Elk Grove, City of Sacramento, and Unincorporated Sacramento have been combined as the proposed fees have not been split between roadway and transit. Proposed fees to go to the Board of Supervisors the first half of 2008.

^[6] The Greenbriar habitat mitigation fee is based on total estimated habitat mitigation costs excluding land acquisition as land is dedicated for the Greenbriar Project.

^[7] The Greenbriar Other General Fees includes a preliminary estimate for air quality mitigation cost of \$450 based on Greenbriar Public Facilities Financing Plan.

"plan area"

Table E-3 SINGLE-FAMILY HOMES Plan Area Fees per Unit 2,000-Sq.-Ft. Home, 450-Sq.-Ft. Garage, 3 Bedrooms 2 Bathrooms, 6 Units per Net Acre

	Sutter Co	unty		Sacramer	nto County			Placer County	Yolo County
Plan Area Fees: These fees are charged only	Unincorporated	Yuba City	Rancho Cordova	Elk Grove	Unincorporated	Sacrar	mento	Roseville	Woodland
within a certain area of a County or City to fund	Sutter	Yuba City	SunRidge	Laguna Ridge	North Vineyard	North Natomas		Fiddyment	
facilities to serve a specific development project.	Pointe	Generic	Anatolia III [1]	Central Shed [2]	Station	Quad 2, Basin 1	Greenbriar [3]	Ranch	Springlake
Current as of	Jun-08	Apr-08	Mar-08	Mar-08	Mar-08	Mar-08	Mar-08	Jan-08	Feb-08
PLAN AREA FEES PER UNIT									
Infrastructure Fee	-	-	-	-	-	\$6,777	\$4,203	-	-
Transit	\$196	-	\$71	-	\$626	\$420	-	\$53	\$243
Roadway	\$4,743	-	\$12,890	-	\$13,142	-	\$4,866	\$175	\$12,818
Park Improvement	\$4,350	-	\$4,302	\$2,807	\$4,295		-	-	\$11,528
Fire/Police Protection	\$911	-	-	-	-	-	-	-	\$771
Library	\$184	-	\$581	-	\$672		-	-	-
Drainage	\$4,786	-	-	-	\$6,494	-	\$6,820	-	\$12,570
Sewer	\$5,329	-	\$865	-	-	-	\$2,184	-	\$2,916
Water	\$12,566	-	\$1,254	-	\$200	-	\$3,355	\$115	\$1,810
Landscape Corridors	-	-	-	-	\$2,783	-	\$3,873	-	
Fee Program Formation/Administration	\$1,009	-	\$568	-	\$1,076	-	-	-	\$1,720
Public Land and Regional Park Acquisition Fees	-	-	-	-	-	\$6,923	-	-	-
SAFCA Development Impact Fee [4]	\$3,580	-	-	-	-	\$3,580	\$3,580	-	-
Other General Fees	\$2,292	-	\$74	-	-	-	-	\$1,820	\$2,656
Less Bond Proceeds	(\$13,000)	-	-	-	(\$10,575)	-	-	-	(\$17,259)
TOTAL PLAN AREA FEES PER UNIT	\$26,947	\$0	\$20,605	\$2,807	\$18,712	\$17,700	\$28,881	\$2,162	29,773

Sources: Various Cities and Counties; and EPS.

[1] Park Improvement Fees for Rancho Cordova SunRidge Anatolia III include \$3,445 park fee and \$786.77 park renovation fee per the Development Agreement dated December 05, 2003. Fees reflect the current 2007 rate per the City of Rancho Cordova.

Prepared by EPS 12/11/2008

^[2] Laguna Ridge has a private Master Cost Sharing Agreement to pay for certain infrastructure costs. The total does not include these privately funded backbone infrastructure and other public facility costs which may total an estimated \$48,000 per unit.

^[3] The funding of the Greenbriar plan area fees has not yet been determined.

^[4] This analysis assumes the proposed SAFCA Development Impact Fee to be implemented in 2008. The proposed rate is \$1.79 per sq. ft.

Table E-4
SINGLE-FAMILY HOMES
Estimated School Mitigation per Unit
2,000-Sq.-Ft. Home, 450-Sq.-Ft. Garage, 3 Bedrooms
2 Bathrooms, 6 Units per Net Acre

	Sutter C	ounty		Sacramer	nto County			Placer County	Yolo County
	Unincorporated	Yuba City	Rancho Cordova		Unincorporated	Sacram	ento	Roseville	Woodland
	Sutter	Yuba City	SunRidge	Laguna Ridge	North Vineyard	North Natomas		Fiddyment	
Estimated School Mitigation Per Unit	Pointe	Generic	Anatolia III	Central Shed	Station	Quad 2, Basin 1	Greenbriar	Ranch	Springlake
Current as of	Jun-08	Apr-08	Mar-08	Mar-08	Mar-08	Mar-08	Mar-08	Jan-08	Feb-08
School District	Pleasant Grove ESD East Nicholas JUHSD	Yuba City USD	Elk Grove USD	Elk Grove USD	Elk Grove USD	Natomas USD		Roseville City Elem & Roseville JUHSD	Woodland JUSD
A. Annual School Mello-Roos CFD Taxes	-	\$913	\$200	\$200	\$200	-	-	-	-
B. Present Value of School CFD Tax	\$0	\$9,552	\$2,165	\$2,165	\$2,165	\$0	\$0	\$0	\$0
C. School Fee per Sq. Ft.:									
Level 1 Fees	-	n/a	-	-	-	-	-	-	-
Level 2 (or 3) SB50 Fee	-	-	\$4.94	\$4.94	\$4.94	\$4.18	-	-	\$3.85
Mitigation Agreement	\$13,686	-	-	-	-	-	-	\$2.95	-
D. Total School Fee:									
Stirling Fee	-	-	-	-	-	-	-	-	-
Level 2 (or 3) SB50 Fee	-	-	\$9,880	\$9,880	\$9,880	\$8,360	-	\$5,900	\$7,700
Mitigation Agreement	\$13,686	-	-	-	-	-	\$11,835	\$12,324	-
E. Total School Mitigation (B+D)	\$13,686	\$9,552	\$12,045	\$12,045	\$12,045	\$8,360	\$11,835	\$18,224	\$7,700
									"schoo

Sources: Various Cities and Counties; and EPS.

"taxes"

Table E-5
SINGLE-FAMILY HOMES
Special Taxes and Assessments per Unit
2,000-Sq.-Ft. Home, 450-Sq.-Ft. Garage, 3 Bedrooms
2 Bathrooms, 6 Units per Net Acre

	Sutter Co	unty		Sacrame	nto County			Placer County	Yolo County
	Unincorporated	Yuba City	Rancho Cordova		Unincorporated	Sacram	ento	Roseville	Woodland
Special Taxes and Assessments per Unit for	Sutter	Yuba City	SunRidge	Laguna Ridge	North Vineyard	North Natomas		Fiddyment	
Infrastructure [1]	Pointe	Generic	Anatolia III	Central Shed	Station	Quad 2, Basin 1	Greenbriar	Ranch	Springlake
Current as of	Jun-08	Apr-08	Mar-08	Mar-08	Mar-08	Mar-08	Mar-08	Jan-08	Feb-08
Annual Special Taxes and Assessments per Unit									\$1,804
Infrastructure CFD	\$1,250	-	-	\$1,530	\$1,457	\$811	-	\$1,061	-
Infrastructure Assessment District	-	\$928	-	-	-	-	-	-	-
SAFCA CCAD	\$63	-	-	-	-	\$104	\$63	-	-
Total Annual Taxes and Assessments	\$1,313	\$928	\$0	\$1,530	\$1,457	\$914	\$63	\$1,061	\$1,804
Estimated Bond Debt of Special Taxes and Assessments									
Infrastructure CFD	\$15,511	-	-	\$18,570	\$19,217	\$6,317	-	\$15,810	\$19,878
Infrastructure Assessment District	-	\$9,466	-	-	-	-	-	-	-
SAFCA CCAD	\$777	-	-	-	-	\$1,287	\$777	-	-
Total Estimated Bond Debt	\$16,288	\$9,466	\$0	\$18,570	\$19,217	\$7,604	\$777	\$15,810	\$19,878

Sources: Various Cities and Counties; and EPS.

^[1] Taxes and Assessments for schools can be found in Table E-4.