

Appendix C

Detailed Cost Estimate Summary

Cupertino Storm Drain Master Plan
 Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Pumpkin Fiesta Phase 1									
IMP_SWPP3502	18	36	112	\$ 460	\$ 51,520	1	\$ 13,650		
IMP_SWPP4101	18	36	225	\$ 460	\$ 103,500	1	\$ 13,650		
IMP_SWPP4294	18	36	250	\$ 460	\$ 115,000	1	\$ 13,650		
IMP_SWPP989	36	60	196	\$ 680	\$ 133,280	2	\$ 32,000		
			783		\$ 403,300		\$ 72,950		\$ 476,250
Pumpkin Fiesta Phase 2									
Casing	0	48	400	\$ 2,000	\$ 800,000		\$ -		
IMP_Link_142	0	36	277	\$ 460	\$ 127,420	1	\$ 13,650		
IMP_Link_82	15	36	141	\$ 460	\$ 64,860	1	\$ 13,650		
IMP_Link_85	15	36	70	\$ 460	\$ 32,200	1	\$ 13,650		
IMP_Link_87	15	36	143	\$ 460	\$ 65,780	1	\$ 13,650		
SWPP1751	12	36	152	\$ 460	\$ 69,920	1	\$ 13,650		
SWPP1752	12	36	318	\$ 460	\$ 146,280	2	\$ 27,300		
			1,501		\$ 1,306,460		\$ 95,550		\$ 1,402,010
Bubb Phase 1									
IMP_Link_96	0	42	302	\$ 510	\$ 154,020	2	\$ 28,000		
			302		\$ 154,020		\$ 28,000		\$ 182,020
Bubb Phase 2									
Link_99	27	48	5	\$ 550	\$ 2,750	2	\$ 29,600		
IMP_SWPP5716	27	42	112	\$ 510	\$ 57,120	1	\$ 14,000		
IMP_Link_98	0	36	7	\$ 460	\$ 3,220	1	\$ 13,650		
IMP_SWPP1307	27	48	23	\$ 550	\$ 12,650	1	\$ 14,800		
IMP_SWPP2190	24	24	19	\$ 350	\$ 6,650	1	\$ 12,990	1	
IMP_SWPP4296	27	42	94	\$ 510	\$ 47,940	1	\$ 14,000		
IMP_SWPP6141	27	42	237	\$ 510	\$ 120,870	1	\$ 14,000		
IMP_SWPP976	27	42	195	\$ 510	\$ 99,450	1	\$ 14,000		

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IMP_SWPP977	27	42	130	\$ 510	\$ 66,300	1	\$ 14,000		
			822		\$ 416,950		\$ 141,040	\$ 25,000	\$ 582,990
Bubb Phase 3									
IMP_SWPP857	15	36	42	\$ 460	\$ 19,320	1	\$ 13,650		
IMP_Link_145	15	36	121	\$ 460	\$ 55,660	1	\$ 13,650		
IMP_SWPP13	27	48	52	\$ 550	\$ 28,600	1	\$ 14,800		
IMP_SWPP10	27	48	254	\$ 550	\$ 139,700	1	\$ 14,800		
IMP_SWPP1012	27	48	209	\$ 550	\$ 114,950	1	\$ 14,800		
IMP_SWPP11	27	48	97	\$ 550	\$ 53,350	1	\$ 14,800		
IMP_SWPP1160	27	48	287	\$ 550	\$ 157,850	1	\$ 14,800		
IMP_SWPP1635	15	24	144	\$ 350	\$ 50,400	1	\$ 12,990		
IMP_SWPP1636	15	24	67	\$ 350	\$ 23,450	1	\$ 12,990		
IMP_SWPP1658	27	48	274	\$ 550	\$ 150,700	1	\$ 14,800		
IMP_SWPP1753	12	18	219	\$ 290	\$ 63,510	1	\$ 12,830		
IMP_SWPP1910	12	18	261	\$ 290	\$ 75,690	1	\$ 12,830		
IMP_SWPP1911	15	36	287	\$ 460	\$ 132,020	1	\$ 13,650		
IMP_SWPP12	27	48	130	\$ 550	\$ 71,500	1	\$ 14,800		
IMP_SWPP858	15	36	294	\$ 460	\$ 135,240	1	\$ 13,650		
IMP_SWPP1741	18	36	309	\$ 460	\$ 142,140	2	\$ 27,300		
			3,047		\$ 1,414,080		\$ 237,140		\$ 1,651,220
Foothill South Phase 1									
IMP_SWPP1442	36	60	106	\$ 680	\$ 72,080	2	\$ 32,000		
IMP_SWPP1443	36	60	341	\$ 680	\$ 231,880	1	\$ 16,000		
IMP_SWPP1444	36	60	172	\$ 680	\$ 116,960	1	\$ 16,000		
IMP_SWPP1562	36	60	121	\$ 680	\$ 82,280	1	\$ 16,000		
IMP_SWPP1563	36	60	192	\$ 680	\$ 130,560	1	\$ 16,000		
IMP_SWPP1986	36	60	58	\$ 680	\$ 39,440	1	\$ 16,000		

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IMP_SWPP3507	36	60	217	\$ 680	\$ 147,560	1	\$ 16,000		
IMP_SWPP3508	36	60	91	\$ 680	\$ 61,880	1	\$ 16,000		
IMP_SWPP538	36	60	57	\$ 680	\$ 38,760	1	\$ 16,000		
IMP_SWPP795	30	60	290	\$ 680	\$ 197,200	1	\$ 16,000		
			1,645		\$ 1,118,600		\$ 176,000		\$ 1,294,600
Foothill South Phase 2									
IMP_SWPP1172	36	42	533	\$ 510	\$ 271,830	2	\$ 28,000		
IMP_SWPP1173	36	42	128	\$ 510	\$ 65,280	1	\$ 14,000		
IMP_SWPP1174	36	42	418	\$ 510	\$ 213,180	1	\$ 14,000		
IMP_SWPP4111	36	48	270	\$ 550	\$ 148,500	1	\$ 14,800		
IMP_SWPP4115	36	48	99	\$ 550	\$ 54,450	1	\$ 14,800		
IMP_SWPP801	36	36	86	\$ 460	\$ 39,560	1	\$ 13,650		
IMP_SWPP802	36	36	296	\$ 460	\$ 136,160	1	\$ 13,650		
IMP_SWPP887	36	36	356	\$ 460	\$ 163,760	1	\$ 13,650		
			2,186		\$ 1,092,720		\$ 126,550		\$ 1,219,270
McClellan Phase 1									
IMP_SWPP1037	30	42	255	\$ 510	\$ 130,050	1	\$ 14,000		
IMP_SWPP1042	24	36	425	\$ 460	\$ 195,500	1	\$ 13,650		
IMP_SWPP1490	30	48	27	\$ 550	\$ 14,850	1	\$ 14,800		
IMP_SWPP1491	30	48	252	\$ 550	\$ 138,600	1	\$ 14,800		
IMP_SWPP1492	30	48	203	\$ 550	\$ 111,650	1	\$ 14,800		
IMP_SWPP1788	30	42	433	\$ 510	\$ 220,830	1	\$ 14,000		
IMP_SWPP1789	33	48	301	\$ 550	\$ 165,550	1	\$ 14,800		
IMP_SWPP182	33	48	300	\$ 550	\$ 165,000	1	\$ 14,800		
IMP_SWPP183	33	48	310	\$ 550	\$ 170,500	1	\$ 14,800		
IMP_SWPP184	36	54	13	\$ 630	\$ 8,190	1	\$ 15,600		
IMP_SWPP185	36	54	14	\$ 630	\$ 8,820	1	\$ 15,600		

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IMP_SWPP186	36	54	420	\$ 630	\$ 264,600	1	\$ 15,600		
IMP_SWPP1211	18	36	362	\$ 460	\$ 166,520	1	\$ 13,650		
IMP_SWPP1340	30	48	27	\$ 550	\$ 14,850	1	\$ 14,800		
IMP_SWPP1341	30	48	135	\$ 550	\$ 74,250	1	\$ 14,800		
IMP_SWPP1342	30	48	212	\$ 550	\$ 116,600	1	\$ 14,800		
IMP_SWPP4267	27	42	326	\$ 510	\$ 166,260	1	\$ 14,000		
IMP_SWPP4635	42	48	118	\$ 550	\$ 64,900	1	\$ 14,800		
IMP_SWPP5719	27	42	134	\$ 510	\$ 68,340	2	\$ 28,000		
			4,267		\$ 2,265,860		\$ 292,100		\$ 2,557,960
McClellan Phase 2									
IMP_SWPP1873	27	42	205	\$ 510	\$ 104,550	2	\$ 28,000		
IMP_SWPP1942	27	36	171	\$ 460	\$ 78,660	1	\$ 13,650		
IMP_SWPP1943	27	36	288	\$ 460	\$ 132,480	1	\$ 13,650		
IMP_SWPP1944	27	42	359	\$ 510	\$ 183,090	1	\$ 14,000		
IMP_SWPP1945	27	42	31	\$ 510	\$ 15,810	1	\$ 14,000		
IMP_SWPP1989	27	42	73	\$ 510	\$ 37,230	1	\$ 14,000		
IMP_SWPP4268	27	42	533	\$ 510	\$ 271,830	1	\$ 14,000		
IMP_SWPP4279	27	42	148	\$ 510	\$ 75,480	1	\$ 14,000		
IMP_SWPP777	27	36	212	\$ 460	\$ 97,520	1	\$ 13,650		
			2,020		\$ 996,650		\$ 138,950		\$ 1,135,600
Stevens East									
IMP_SWPP874	36	48	136	\$ 550	\$ 74,800	2	\$ 29,600		
IMP_SWPP875	36	48	243	\$ 550	\$ 133,650	1	\$ 14,800		
IMP_SWPP876	36	48	428	\$ 550	\$ 235,400	1	\$ 14,800		
IMP_SWPP877	30	36	315	\$ 460	\$ 144,900	1	\$ 13,650		
IMP_SWPP878	30	36	307	\$ 460	\$ 141,220	1	\$ 13,650		
			1,429		\$ 729,970		\$ 86,500		\$ 816,470

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Beardon									
IMP_SWPP1596	15	24	290	\$ 350	\$ 101,500	1	\$ 12,990		
IMP_SWPP1249	18	30	276	\$ 400	\$ 110,400	1	\$ 13,150		
IMP_SWPP1250	21	30	300	\$ 400	\$ 120,000	1	\$ 13,150		
IMP_SWPP411	21	30	24	\$ 400	\$ 9,600	1	\$ 13,150		
IMP_SWPP4924	27	36	13	\$ 460	\$ 5,980	1	\$ 13,650		
IMP_SWPP4941	30	36	365	\$ 460	\$ 167,900	1	\$ 13,650		
IMP_SWPP550	24	30	183	\$ 400	\$ 73,200	1	\$ 13,150		
IMP_SWPP551	21	30	147	\$ 400	\$ 58,800	1	\$ 13,150		
IMP_SWPP671	24	30	276	\$ 400	\$ 110,400	1	\$ 13,150		
IMP_SWPP74	27	36	338	\$ 460	\$ 155,480	2	\$ 27,300		
			2,212		\$ 913,260		\$ 146,490		\$ 1,059,750
Blaney North									
IMP_SWPP1345	33	36	567	\$ 460	\$ 260,820	1	\$ 13,650		
IMP_SWPP1802	30	30	312	\$ 400	\$ 124,800	1	\$ 13,150		
IMP_SWPP1803	30	30	306	\$ 400	\$ 122,400	1	\$ 13,150		
IMP_SWPP1804	30	36	159	\$ 460	\$ 73,140	1	\$ 13,650		
IMP_SWPP1832	36	42	52	\$ 510	\$ 26,520	1	\$ 14,000		
IMP_SWPP1833	36	42	193	\$ 510	\$ 98,430	1	\$ 14,000		
IMP_SWPP1855	12	12	122	\$ 260	\$ 31,720	1	\$ 12,730		
IMP_SWPP2079	15	24	268	\$ 350	\$ 93,800	1	\$ 12,990		
IMP_SWPP2080	36	42	425	\$ 510	\$ 216,750	1	\$ 14,000		
IMP_SWPP2081	36	42	376	\$ 510	\$ 191,760	1	\$ 14,000		
IMP_SWPP613	27	30	253	\$ 400	\$ 101,200	2	\$ 26,300		
			3,033		\$ 1,341,340		\$ 161,620		\$ 1,502,960
Blaney South									
IMP_SWPP3269	24	36	4	\$ 460	\$ 1,840	1	\$ 13,650		

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IMP_SWPP2033	24	36	237	\$ 460	\$ 109,020	1	\$ 13,650		
IMP_SWPP2034	24	36	181	\$ 460	\$ 83,260	1	\$ 13,650		
IMP_SWPP119	12	18	354	\$ 290	\$ 102,660	1	\$ 12,830		
IMP_SWPP120	12	18	240	\$ 290	\$ 69,600	1	\$ 12,830		
IMP_SWPP121	15	30	422	\$ 400	\$ 168,800	1	\$ 13,150		
IMP_SWPP122	15	30	423	\$ 400	\$ 169,200	1	\$ 13,150		
IMP_SWPP3269	24	36	4	\$ 460	\$ 1,840	1	\$ 13,650		
IMP_SWPP541	24	36	231	\$ 460	\$ 106,260	1	\$ 13,650		
IMP_SWPP684	21	36	294	\$ 460	\$ 135,240	1	\$ 13,650		
IMP_SWPP685	24	36	244	\$ 460	\$ 112,240	2	\$ 27,300		
			2,634		\$ 1,059,960		\$ 161,160		\$ 1,221,120
Bollinger									
IMP_SWPP1465	21	36	101	\$ 460	\$ 46,460	1	\$ 13,650		
IMP_SWPP1577	21	36	134	\$ 460	\$ 61,640	1	\$ 13,650		
IMP_SWPP1934	30	42	426	\$ 510	\$ 217,260	1	\$ 14,000		
IMP_SWPP2032	30	42	69	\$ 510	\$ 35,190	1	\$ 14,000		
IMP_SWPP2630	30	42	205	\$ 510	\$ 104,550	1	\$ 14,000		
IMP_SWPP2639	30	42	30	\$ 510	\$ 15,300	1	\$ 14,000		
IMP_SWPP531	21	36	298	\$ 460	\$ 137,080	1	\$ 13,650		
IMP_SWPP532	21	36	138	\$ 460	\$ 63,480	1	\$ 13,650		
IMP_SWPP533	21	36	88	\$ 460	\$ 40,480	1	\$ 13,650		
IMP_SWPP534	21	36	183	\$ 460	\$ 84,180	1	\$ 13,650		
IMP_SWPP535	21	36	281	\$ 460	\$ 129,260	1	\$ 13,650		
IMP_SWPP536	21	36	283	\$ 460	\$ 130,180	1	\$ 13,650		
IMP_SWPP621	30	42	259	\$ 510	\$ 132,090	1	\$ 14,000		
IMP_SWPP6983	12	24	341	\$ 350	\$ 119,350	1	\$ 12,990	1	
IMP_SWPP7386	12	24	149	\$ 350	\$ 52,150	2	\$ 25,980		

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			2,985		\$ 1,368,650		\$ 218,170	\$ 25,000	\$ 1,611,820
Calle de Barcelona									
IMP_SWPP1916	15	24	182	\$ 350	\$ 63,700	1	\$ 12,990		
IMP_SWPP1917	18	24	147	\$ 350	\$ 51,450	1	\$ 12,990		
IMP_SWPP1996	27	42	476	\$ 510	\$ 242,760	1	\$ 14,000		
IMP_SWPP1223-1	27	36	528	\$ 460	\$ 242,880	1	\$ 13,650		
IMP_SWPP1223-2	27	42	44	\$ 510	\$ 22,440	1	\$ 14,000		
IMP_SWPP2059	24	42	457	\$ 510	\$ 233,070	1	\$ 14,000		
IMP_SWPP2060	24	42	279	\$ 510	\$ 142,290	1	\$ 14,000		
IMP_SWPP2061	24	42	365	\$ 510	\$ 186,150	1	\$ 14,000		
IMP_SWPP3059	30	36	92	\$ 460	\$ 42,320	1	\$ 13,650		
IMP_SWPP3596	21	30	723	\$ 400	\$ 289,200	1	\$ 13,150		
IMP_SWPP3598	21	36	22	\$ 460	\$ 10,120	1	\$ 13,650		
IMP_SWPP661	15	24	244	\$ 350	\$ 85,400	1	\$ 12,990		
IMP_SWPP662	15	24	293	\$ 350	\$ 102,550	1	\$ 12,990		
IMP_SWPP946	18	24	293	\$ 350	\$ 102,550	2	\$ 25,980		
			4,145		\$ 1,816,880		\$ 202,040		\$ 2,018,920
Calvert									
IMP_SWPP1475	15	36	283	\$ 460	\$ 130,180	1	\$ 13,650		
IMP_SWPP1476	15	36	582	\$ 460	\$ 267,720	1	\$ 13,650		
IMP_SWPP1606	15	36	18	\$ 460	\$ 8,280	1	\$ 13,650		
IMP_SWPP1849	15	24	327	\$ 350	\$ 114,450	1	\$ 12,990		
IMP_SWPP349	15	24	256	\$ 350	\$ 89,600	2	\$ 25,980		
			1,466		\$ 610,230		\$ 79,920		\$ 690,150
Columbus									
IMP_SWPP1075	12	18	361	\$ 290	\$ 104,690	1	\$ 12,830		
IMP_SWPP1076	15	18	288	\$ 290	\$ 83,520	1	\$ 12,830		

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IMP_SWPP1077	15	24	276	\$ 350	\$ 96,600	1	\$ 12,990		
IMP_SWPP1078	18	24	275	\$ 350	\$ 96,250	1	\$ 12,990		
IMP_SWPP1157	24	30	124	\$ 400	\$ 49,600	1	\$ 13,150		
IMP_SWPP1983	18	30	138	\$ 400	\$ 55,200	1	\$ 13,150		
IMP_SWPP1269	18	30	16	\$ 400	\$ 6,400	1	\$ 13,150		
IMP_SWPP1270	18	30	152	\$ 400	\$ 60,800	1	\$ 13,150		
IMP_SWPP1271	18	30	185	\$ 400	\$ 74,000	1	\$ 13,150		
IMP_SWPP1272	24	30	209	\$ 400	\$ 83,600	1	\$ 13,150		
IMP_SWPP267	24	30	447	\$ 400	\$ 178,800	1	\$ 13,150		
IMP_SWPP268	24	30	440	\$ 400	\$ 176,000	1	\$ 13,150		
IMP_SWPP297	24	30	135	\$ 400	\$ 54,000	1	\$ 13,150		
IMP_SWPP3518	12	18	167	\$ 290	\$ 48,430	1	\$ 12,830		
IMP_SWPP726	12	18	129	\$ 290	\$ 37,410	1	\$ 12,830		
IMP_SWPP968	33	42	505	\$ 510	\$ 257,550	1	\$ 14,000		
IMP_SWPP969	33	42	481	\$ 510	\$ 245,310	1	\$ 14,000		
IMP_SWPP970	36	42	220	\$ 510	\$ 112,200	2	\$ 28,000		
			4,548		\$ 1,820,360		\$ 251,650		\$ 2,072,010
Finch									
IMP_SWPP1766	15	24	291	\$ 350	\$ 101,850	1	\$ 12,990		
IMP_SWPP310	15	24	302	\$ 350	\$ 105,700	1	\$ 12,990		
IMP_SWPP311	15	24	97	\$ 350	\$ 33,950	1	\$ 12,990		
IMP_SWPP312	18	24	190	\$ 350	\$ 66,500	1	\$ 12,990		
IMP_SWPP313	18	24	120	\$ 350	\$ 42,000	2	\$ 25,980		
			1,000		\$ 350,000		\$ 77,940		\$ 427,940
Fort Baker									
IMP_SWPP1228	12	18	315	\$ 290	\$ 91,350	1	\$ 12,830		
IMP_SWPP1275	27	36	371	\$ 460	\$ 170,660	1	\$ 13,650		

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IMP_SWPP1276	27	36	117	\$ 460	\$ 53,820	1	\$ 13,650		
IMP_SWPP1290	24	30	129	\$ 400	\$ 51,600	1	\$ 13,150		
IMP_SWPP1291	24	36	81	\$ 460	\$ 37,260	1	\$ 13,650		
IMP_SWPP1292	24	36	497	\$ 460	\$ 228,620	1	\$ 13,650		
IMP_SWPP776	27	36	317	\$ 460	\$ 145,820	1	\$ 13,650		
IMP_SWPP840	12	18	120	\$ 290	\$ 34,800	1	\$ 12,830		
IMP_SWPP841	12	18	58	\$ 290	\$ 16,820	1	\$ 12,830		
IMP_SWPP842	15	18	403	\$ 290	\$ 116,870	1	\$ 12,830		
IMP_SWPP844	21	30	281	\$ 400	\$ 112,400	1	\$ 13,150		
IMP_SWPP947	12	18	326	\$ 290	\$ 94,540	1	\$ 12,830		
IMP_SWPP951	18	24	266	\$ 350	\$ 93,100	2	\$ 25,980		
			3,281		\$ 1,247,660		\$ 184,680		\$ 1,432,340
John									
IMP_SWPP430	15	24	144	\$ 350	\$ 50,400	1	\$ 12,990		
IMP_SWPP431	15	24	131	\$ 350	\$ 45,850	1	\$ 12,990		
IMP_SWPP945	12	18	201	\$ 290	\$ 58,290	1	\$ 12,830		
IMP_SWPP979	12	18	246	\$ 290	\$ 71,340	1	\$ 12,830		
IMP_SWPP980	12	18	260	\$ 290	\$ 75,400	2	\$ 25,660		
			982		\$ 301,280		\$ 77,300		\$ 378,580
Kingsbury									
IMP_SWPP1297	12	18	115	\$ 290	\$ 33,350	1	\$ 12,830		
IMP_SWPP227	10	18	258	\$ 290	\$ 74,820	1	\$ 12,830		
IMP_SWPP228	12	18	187	\$ 290	\$ 54,230	1	\$ 12,830		
IMP_SWPP229	12	18	218	\$ 290	\$ 63,220	1	\$ 12,830		
IMP_SWPP651	12	21	250	\$ 310	\$ 77,500	1	\$ 12,920		
IMP_SWPP674	15	24	89	\$ 350	\$ 31,150	1	\$ 12,990		
IMP_SWPP675	12	21	262	\$ 310	\$ 81,220	1	\$ 12,920		

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IMP_SWPP695	24	36	311	\$ 460	\$ 143,060	2	\$ 27,300		
			1,690		\$ 558,550		\$ 117,450		\$ 676,000
Majestic Oak									
IMP_SWPP1146	12	18	229	\$ 290	\$ 66,410	1	\$ 12,830		
IMP_SWPP77	12	18	172	\$ 290	\$ 49,880	1	\$ 12,830		
IMP_SWPP78	12	18	111	\$ 290	\$ 32,190	2	\$ 25,660		
			512		\$ 148,480		\$ 51,320		\$ 199,800
Peach Blossom									
IMP_SWPP1585	12	18	265	\$ 290	\$ 76,850	1	\$ 12,830		
IMP_SWPP1592	12	18	283	\$ 290	\$ 82,070	1	\$ 12,830		
IMP_SWPP278	15	18	266	\$ 290	\$ 77,140	1	\$ 12,830		
IMP_SWPP279	15	30	261	\$ 400	\$ 104,400	1	\$ 13,150		
IMP_SWPP280	18	30	294	\$ 400	\$ 117,600	1	\$ 13,150		
IMP_SWPP594	12	18	498	\$ 290	\$ 144,420	1	\$ 12,830		
IMP_SWPP635	18	30	263	\$ 400	\$ 105,200	1	\$ 13,150		
IMP_SWPP636	18	36	285	\$ 460	\$ 131,100	1	\$ 13,650		
IMP_SWPP637	18	36	244	\$ 460	\$ 112,240	1	\$ 13,650		
IMP_SWPP638	24	42	254	\$ 510	\$ 129,540	1	\$ 14,000		
IMP_SWPP639	24	42	274	\$ 510	\$ 139,740	1	\$ 14,000		
IMP_SWPP922	12	18	507	\$ 290	\$ 147,030	2	\$ 25,660		
			3,694		\$ 1,367,330		\$ 171,730		\$ 1,539,060
Poppy									
IMP_SWPP1040	15	24	222	\$ 350	\$ 77,700	1	\$ 12,990		
IMP_SWPP1861	15	24	245	\$ 350	\$ 85,750	1	\$ 12,990		
IMP_SWPP2803	15	36	175	\$ 460	\$ 80,500	1	\$ 13,650		
IMP_SWPP2804	15	36	217	\$ 460	\$ 99,820	1	\$ 13,650		
IMP_SWPP592	15	24	284	\$ 350	\$ 99,400	1	\$ 12,990		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP593	15	36	187	\$ 460	\$ 86,020	2	\$ 27,300		
			1,330		\$ 529,190		\$ 93,570		\$ 622,760
Rainbow									
IMP_SWPP1378	30	33	422	\$ 430	\$ 181,460	1	\$ 13,510		
IMP_SWPP1379	30	33	445	\$ 430	\$ 191,350	1	\$ 13,510		
IMP_SWPP1380	36	48	252	\$ 550	\$ 138,600	2	\$ 29,600		
			1,119		\$ 511,410		\$ 56,620		\$ 568,030
Rodrigues									
IMP_SWPP1170	24	36	265	\$ 460	\$ 121,900	1	\$ 13,650		
IMP_SWPP1362	30	36	162	\$ 460	\$ 74,520	1	\$ 13,650		
IMP_SWPP1376	21	24	383	\$ 350	\$ 134,050	1	\$ 12,990		
IMP_SWPP1851	30	36	329	\$ 460	\$ 151,340	1	\$ 13,650		
IMP_SWPP2049	33	42	443	\$ 510	\$ 225,930	1	\$ 14,000		
IMP_SWPP2050	30	42	115	\$ 510	\$ 58,650	1	\$ 14,000		
IMP_SWPP2051	30	42	15	\$ 510	\$ 7,650	1	\$ 14,000		
IMP_SWPP1260	18	24	295	\$ 350	\$ 103,250	1	\$ 12,990		
IMP_SWPP43	18	24	265	\$ 350	\$ 92,750	1	\$ 12,990		
IMP_SWPP562	12	24	277	\$ 350	\$ 96,950	1	\$ 12,990		
IMP_SWPP563	15	24	238	\$ 350	\$ 83,300	1	\$ 12,990		
IMP_SWPP631	18	27	214	\$ 370	\$ 79,180	1	\$ 13,070		
IMP_SWPP654	21	24	251	\$ 350	\$ 87,850	1	\$ 12,990		
IMP_SWPP681	15	24	236	\$ 350	\$ 82,600	1	\$ 12,990		
IMP_SWPP682	15	24	110	\$ 350	\$ 38,500	1	\$ 12,990		
IMP_SWPP688	24	36	429	\$ 460	\$ 197,340	1	\$ 13,650		
IMP_SWPP689	27	36	301	\$ 460	\$ 138,460	1	\$ 13,650		
IMP_SWPP697	18	27	55	\$ 370	\$ 20,350	1	\$ 13,070		
IMP_SWPP853	21	36	428	\$ 460	\$ 196,880	2	\$ 27,300		



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
			4,811		\$ 1,991,450		\$ 267,610		\$ 2,259,060
Royal Oak									
IMP_SWPP2839	18	21	257	\$ 310	\$ 79,670	1	\$ 12,920		
IMP_SWPP2842	18	21	250	\$ 310	\$ 77,500	1	\$ 12,920		
IMP_SWPP2864	12	18	60	\$ 290	\$ 17,400	1	\$ 12,830		
IMP_SWPP665	12	18	91	\$ 290	\$ 26,390	1	\$ 12,830		
IMP_SWPP690	12	18	88	\$ 290	\$ 25,520	2	\$ 25,660		
			746		\$ 226,480		\$ 77,160		\$ 303,640
Scenic									
IMP_SWPP258	21	30	66	\$ 400	\$ 26,400	1	\$ 13,150		
IMP_SWPP259	12	18	43	\$ 290	\$ 12,470	1	\$ 12,830		
IMP_SWPP400	21	30	200	\$ 400	\$ 80,000	1	\$ 13,150		
IMP_SWPP5481	21	30	26	\$ 400	\$ 10,400	1	\$ 13,150		
IMP_SWPP90	12	18	347	\$ 290	\$ 100,630	2	\$ 25,660		
			682		\$ 229,900		\$ 77,940		\$ 307,840
Scotland									
IMP_SWPP1178	15	24	321	\$ 350	\$ 112,350	1	\$ 12,990		
IMP_SWPP1179	15	21	363	\$ 310	\$ 112,530	1	\$ 12,920		
IMP_SWPP1180	12	18	233	\$ 290	\$ 67,570	1	\$ 12,830		
IMP_SWPP1181	12	15	154	\$ 270	\$ 41,580	1	\$ 12,740		
IMP_SWPP606	15	30	19	\$ 400	\$ 7,600	1	\$ 13,150		
IMP_SWPP92	15	30	149	\$ 400	\$ 59,600	1	\$ 13,150		
IMP_SWPP93	15	30	111	\$ 400	\$ 44,400	2	\$ 26,300		
			1,350		\$ 445,630		\$ 104,080		\$ 549,710
Stafford									
IMP_SWPP1096	21	30	114	\$ 400	\$ 45,600	1	\$ 13,150		
IMP_SWPP1805	12	21	356	\$ 310	\$ 110,360	1	\$ 12,920		

Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1806	15	24	447	\$ 350	\$ 156,450	1	\$ 12,990		
IMP_SWPP5390	21	30	19	\$ 400	\$ 7,600	1	\$ 13,150		
IMP_SWPP626	15	24	280	\$ 350	\$ 98,000	2	\$ 25,980		
			1,216		\$ 418,010		\$ 78,190		\$ 496,200
Stelling North									
IMP_SWPP1553	45	48	349	\$ 550	\$ 191,950	1	\$ 14,800		
IMP_SWPP1554	45	48	257	\$ 550	\$ 141,350	1	\$ 14,800		
IMP_SWPP1900	18	24	204	\$ 350	\$ 71,400	1	\$ 12,990		
IMP_SWPP1901	21	24	174	\$ 350	\$ 60,900	1	\$ 12,990		
IMP_SWPP1068	45	48	365	\$ 550	\$ 200,750	1	\$ 14,800		
IMP_SWPP1556	48	54	27	\$ 630	\$ 17,010	1	\$ 15,600		
IMP_SWPP1738	15	24	210	\$ 350	\$ 73,500	1	\$ 12,990		
IMP_SWPP1299	45	54	30	\$ 630	\$ 18,900	1	\$ 15,600		
IMP_SWPP632	15	24	358	\$ 350	\$ 125,300	1	\$ 12,990		
IMP_SWPP871	48	54	349	\$ 630	\$ 219,870	1	\$ 15,600		
IMP_SWPP930	45	54	285	\$ 630	\$ 179,550	1	\$ 15,600		
IMP_SWPP931	45	54	80	\$ 630	\$ 50,400	2	\$ 31,200		
			2,688		\$ 1,350,880		\$ 189,960		\$ 1,540,840
Stelling South									
IMP_Link_114	0	36	554	\$ 460	\$ 254,840	1	\$ 13,650		
IMP_SWPP1021	18	30	244	\$ 400	\$ 97,600	1	\$ 13,150		
IMP_SWPP1022	24	30	201	\$ 400	\$ 80,400	1	\$ 13,150		
IMP_SWPP1023	24	30	119	\$ 400	\$ 47,600	1	\$ 13,150		
IMP_SWPP1024	24	30	207	\$ 400	\$ 82,800	1	\$ 13,150		
IMP_SWPP1025	27	30	216	\$ 400	\$ 86,400	1	\$ 13,150		
IMP_SWPP1026	27	30	135	\$ 400	\$ 54,000	1	\$ 13,150		
IMP_SWPP1479	15	24	275	\$ 350	\$ 96,250	1	\$ 12,990		



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1623	15	21	371	\$ 310	\$ 115,010	1	\$ 12,920		
IMP_SWPP1624	15	21	350	\$ 310	\$ 108,500	1	\$ 12,920		
IMP_SWPP1625	15	21	306	\$ 310	\$ 94,860	1	\$ 12,920		
IMP_SWPP2120	15	18	205	\$ 290	\$ 59,450	1	\$ 12,830		
IMP_SWPP2122	15	18	48	\$ 290	\$ 13,920	2	\$ 25,660		
			3,231		\$ 1,191,630		\$ 182,790		\$ 1,374,420
Stern									
IMP_SWPP1363	15	18	155	\$ 290	\$ 44,950	1	\$ 12,830		
IMP_SWPP1364	15	24	589	\$ 350	\$ 206,150	1	\$ 12,990		
IMP_SWPP2600	15	30	28	\$ 400	\$ 11,200	1	\$ 13,150		
IMP_SWPP895	15	21	600	\$ 310	\$ 186,000	1	\$ 12,920		
IMP_SWPP896	15	30	17	\$ 400	\$ 6,800	2	\$ 26,300		
			1,389		\$ 455,100		\$ 78,190		\$ 533,290
Stevens West									
IMP_SWPP506	27	30	185	\$ 400	\$ 74,000	1	\$ 13,150		
IMP_SWPP1147	12	18	171	\$ 290	\$ 49,590	1	\$ 12,830		
IMP_SWPP1148	15	24	318	\$ 350	\$ 111,300	1	\$ 12,990		
IMP_SWPP1168	12	18	358	\$ 290	\$ 103,820	1	\$ 12,830		
IMP_SWPP1792	15	24	51	\$ 350	\$ 17,850	1	\$ 12,990		
IMP_SWPP1793	15	24	290	\$ 350	\$ 101,500	1	\$ 12,990		
IMP_SWPP488	15	18	204	\$ 290	\$ 59,160	2	\$ 25,660		
			1,577		\$ 517,220		\$ 103,440		\$ 620,660
Stokes									
SWPP1418	18	24	251	\$ 350	\$ 87,850	1	\$ 12,990		
SWPP1419	18	24	291	\$ 350	\$ 101,850	1	\$ 12,990		
IMP_SWPP286	27	36	260	\$ 460	\$ 119,600	2	\$ 27,300		
IMP_SWPP287	27	36	271	\$ 460	\$ 124,660	1	\$ 13,650		



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP288	24	30	240	\$ 400	\$ 96,000	1	\$ 13,150		
IMP_SWPP290	21	30	147	\$ 400	\$ 58,800	1	\$ 13,150		
SWPP3510	15	24	16	\$ 350	\$ 5,600	1	\$ 12,990		
SWPP3511	15	24	7	\$ 350	\$ 2,450	1	\$ 12,990		
SWPP3512	15	24	155	\$ 350	\$ 54,250	1	\$ 12,990		
SWPP889	15	24	260	\$ 350	\$ 91,000	1	\$ 12,990		
SWPP890	12	24	60	\$ 350	\$ 21,000	1	\$ 12,990		
SWPP899	15	24	327	\$ 350	\$ 114,450	1	\$ 12,990		
			2,285		\$ 877,510		\$ 171,170		\$ 1,048,680
Vista									
IMP_SWPP3479	24	30	113	\$ 400	\$ 45,200	1	\$ 13,150		
IMP_SWPP3480	24	30	55	\$ 400	\$ 22,000	1	\$ 13,150		
IMP_Link_117	0	18	748	\$ 290	\$ 216,920	1	\$ 12,830		
IMP_SWPP2064	18	24	61	\$ 350	\$ 21,350	1	\$ 12,990		
IMP_SWPP3763	12	18	25	\$ 290	\$ 7,250	1	\$ 12,830		
IMP_SWPP4914	15	24	56	\$ 350	\$ 19,600	1	\$ 12,990	1	
IMP_SWPP523	15	15	267	\$ 270	\$ 72,090	1	\$ 12,740		
IMP_SWPP524	15	15	153	\$ 270	\$ 41,310	1	\$ 12,740		
IMP_SWPP525	15	24	93	\$ 350	\$ 32,550	2	\$ 25,980		
			1,571		\$ 478,270		\$ 129,400	\$ 25,000	\$ 632,670
Weymoth									
IMP_SWPP1458	12	18	263	\$ 290	\$ 76,270	1	\$ 12,830		
IMP_SWPP1459	12	18	255	\$ 290	\$ 73,950	2	\$ 25,660		
			518		\$ 150,220		\$ 38,490		\$ 188,710
Medium Priority Totals:			56,695		\$ 22,276,880		\$ 3,550,080		\$ 25,876,960

Cupertino Storm Drain Master Plan
 Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Adriana									
IMP_SWPP1759	12	18	140	\$ 290	\$ 40,600	2	\$ 25,660		
			140		\$ 40,600		\$ 25,660		\$ 66,260
Ainsworth									
IMP_SWPP405	24	36	242	\$ 460	\$ 111,320	1	\$ 13,650		
IMP_SWPP406	24	36	158	\$ 460	\$ 72,680	1	\$ 13,650		
IMP_SWPP407	24	36	238	\$ 460	\$ 109,480	2	\$ 27,300		
			638		\$ 293,480		\$ 54,600		\$ 348,080
Alcalde									
IMP_SWPP3040	24	30	419	\$ 400	\$ 167,600	1	\$ 13,150		
IMP_SWPP3081	24	30	91	\$ 400	\$ 36,400	1	\$ 13,150		
IMP_SWPP3370	24	30	218	\$ 400	\$ 87,200	1	\$ 13,150		
IMP_SWPP3371	24	30	62	\$ 400	\$ 24,800	1	\$ 13,150		
IMP_SWPP4996	18	30	57	\$ 400	\$ 22,800	2	\$ 26,300		
			847		\$ 338,800		\$ 78,900		\$ 417,700
Alhambra									
IMP_SWPP1421	12	18	300	\$ 290	\$ 87,000	1	\$ 12,830		
IMP_SWPP1422	12	18	292	\$ 290	\$ 84,680	1	\$ 12,830		
IMP_SWPP1423	18	24	85	\$ 350	\$ 29,750	1	\$ 12,990		
IMP_SWPP1424	18	24	96	\$ 350	\$ 33,600	1	\$ 12,990		
IMP_SWPP201	18	24	151	\$ 350	\$ 52,850	2	\$ 25,980		
			924		\$ 287,880		\$ 77,620		\$ 365,500
Alves									
IMP_SWPP1101	18	30	158	\$ 400	\$ 63,200	1	\$ 13,150		
IMP_SWPP1671	12	24	166	\$ 350	\$ 58,100	1	\$ 12,990		
IMP_SWPP1731	15	30	135	\$ 400	\$ 54,000	1	\$ 13,150		
IMP_SWPP1920	15	30	48	\$ 400	\$ 19,200	1	\$ 13,150		



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1209	18	30	188	\$ 400	\$ 75,200	1	\$ 13,150		
IMP_SWPP1254	21	30	165	\$ 400	\$ 66,000	1	\$ 13,150		
IMP_SWPP1255	21	30	107	\$ 400	\$ 42,800	1	\$ 13,150		
IMP_SWPP1281	12	24	283	\$ 350	\$ 99,050	1	\$ 12,990		
IMP_SWPP1317	18	30	85	\$ 400	\$ 34,000	1	\$ 13,150		
IMP_SWPP209	21	30	163	\$ 400	\$ 65,200	1	\$ 13,150		
IMP_SWPP210	21	30	109	\$ 400	\$ 43,600	1	\$ 13,150		
IMP_SWPP2746	15	18	436	\$ 290	\$ 126,440	1	\$ 12,830		
IMP_SWPP282	18	30	47	\$ 400	\$ 18,800	1	\$ 13,150		
IMP_SWPP3394	15	24	141	\$ 350	\$ 49,350	1	\$ 12,990		
IMP_SWPP4207	21	30	178	\$ 400	\$ 71,200	1	\$ 13,150		
IMP_SWPP4209	12	24	176	\$ 350	\$ 61,600	1	\$ 12,990		
IMP_SWPP4210	21	24	130	\$ 350	\$ 45,500	1	\$ 12,990		
IMP_SWPP4501	27	30	210	\$ 400	\$ 84,000	2	\$ 26,300		
			2,925		\$ 1,077,240		\$ 248,730		\$ 1,325,970
Bandy									
IMP_SWPP2814	15	18	219	\$ 290	\$ 63,510	2	\$ 25,660		
			219		\$ 63,510		\$ 25,660		\$ 89,170
Baywood									
IMP_SWPP466	12	18	250	\$ 290	\$ 72,500	1	\$ 12,830		
IMP_SWPP467	12	18	276	\$ 290	\$ 80,040	1	\$ 12,830		
IMP_SWPP468	15	21	122	\$ 310	\$ 37,820	1	\$ 12,920		
IMP_SWPP469	15	18	180	\$ 290	\$ 52,200	2	\$ 25,660		
			828		\$ 242,560		\$ 64,240		\$ 306,800
Bubb North									
IMP_SWPP1518	15	36	31	\$ 460	\$ 14,260	1	\$ 13,650		
IMP_SWPP1757	18	30	613	\$ 400	\$ 245,200	1	\$ 13,150		



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1758	18	30	628	\$ 400	\$ 251,200	1	\$ 13,150		
IMP_SWPP1883	15	24	345	\$ 350	\$ 120,750	2	\$ 25,980		
			1,617		\$ 631,410		\$ 65,930		\$ 697,340
Bubb South									
IMP_SWPP1579	27	30	25	\$ 400	\$ 10,000	1	\$ 13,150		
IMP_SWPP1981	12	18	168	\$ 290	\$ 48,720	1	\$ 12,830		
IMP_SWPP1686	27	36	398	\$ 460	\$ 183,080	1	\$ 13,650		
IMP_SWPP1687	27	36	400	\$ 460	\$ 184,000	1	\$ 13,650		
IMP_SWPP5357	12	18	119	\$ 290	\$ 34,510	1	\$ 12,830		
IMP_SWPP5358	12	18	109	\$ 290	\$ 31,610	2	\$ 25,660		
			1,219		\$ 491,920		\$ 91,770		\$ 583,690
Byrne									
IMP_SWPP2992	21	24	100	\$ 350	\$ 35,000	1	\$ 12,990		
IMP_SWPP4232	18	24	24	\$ 350	\$ 8,400	1	\$ 12,990		
IMP_SWPP4233	18	18	190	\$ 290	\$ 55,100	1	\$ 12,830		
IMP_SWPP4273	12	24	52	\$ 350	\$ 18,200	1	\$ 12,990		
IMP_SWPP4283	18	24	312	\$ 350	\$ 109,200	2	\$ 25,980		
			678		\$ 225,900		\$ 77,780		\$ 303,680
Candlewood									
IMP_SWPP1471	12	24	245	\$ 350	\$ 85,750	1	\$ 12,990		
IMP_SWPP1472	12	24	327	\$ 350	\$ 114,450	1	\$ 12,990		
IMP_SWPP188	12	24	325	\$ 350	\$ 113,750	1	\$ 12,990		
IMP_SWPP409	21	24	170	\$ 350	\$ 59,500	1	\$ 12,990		
IMP_SWPP8	21	24	251	\$ 350	\$ 87,850	1	\$ 12,990		
IMP_SWPP975	21	24	29	\$ 350	\$ 10,150	2	\$ 25,980		
			1,347		\$ 471,450		\$ 90,930		\$ 562,380
Castine Phase 1									

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1084	30	36	30	\$ 460	\$ 13,800	1	\$ 13,650		
IMP_SWPP1085	30	36	308	\$ 460	\$ 141,680	1	\$ 13,650		
IMP_SWPP1086	27	36	381	\$ 460	\$ 175,260	1	\$ 13,650		
IMP_SWPP1398	39	42	244	\$ 510	\$ 124,440	1	\$ 14,000		
IMP_SWPP1399	39	42	135	\$ 510	\$ 68,850	1	\$ 14,000		
IMP_SWPP1400	39	54	160	\$ 630	\$ 100,800	1	\$ 15,600		
IMP_SWPP584	36	42	307	\$ 510	\$ 156,570	1	\$ 14,000		
IMP_SWPP783	39	42	24	\$ 510	\$ 12,240	2	\$ 28,000		
			1,589		\$ 793,640		\$ 126,550		\$ 920,190
Castine Phase 2									
IMP_SWPP426	15	21	450	\$ 310	\$ 139,500	1	\$ 12,920		
IMP_SWPP427	15	18	284	\$ 290	\$ 82,360	1	\$ 12,830		
IMP_SWPP582	33	36	335	\$ 460	\$ 154,100	2	\$ 27,300		
			1,069		\$ 375,960		\$ 53,050		\$ 429,010
Clarkston									
IMP_SWPP1660	12	18	256	\$ 290	\$ 74,240	1	\$ 12,830		
IMP_SWPP1661	12	18	234	\$ 290	\$ 67,860	1	\$ 12,830		
IMP_SWPP1662	12	18	238	\$ 290	\$ 69,020	1	\$ 12,830		
IMP_SWPP1318	15	21	134	\$ 310	\$ 41,540	1	\$ 12,920		
IMP_SWPP1319	15	21	128	\$ 310	\$ 39,680	2	\$ 25,840		
			990		\$ 292,340		\$ 77,250		\$ 369,590
Clifford									
IMP_SWPP1138	15	21	285	\$ 310	\$ 88,350	1	\$ 12,920		
IMP_SWPP2073	15	21	296	\$ 310	\$ 91,760	1	\$ 12,920		
IMP_SWPP445	18	21	363	\$ 310	\$ 112,530	2	\$ 25,840		
			944		\$ 292,640		\$ 51,680		\$ 344,320
Colony Hills									

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1930	12	\$ 18	253	\$ 290	\$ 73,370	1	12830		
IMP_SWPP3034	12	\$ 18	353	\$ 290	\$ 102,370	2	25660		
			606		\$ 175,740		\$ 38,490		\$ 214,230
De Anza Circle									
IMP_SWPP197	15	18	226	\$ 290	\$ 65,540	1	\$ 12,830		
IMP_SWPP1231	15	18	73	\$ 290	\$ 21,170	2	\$ 25,660		
			299		\$ 86,710		\$ 38,490		\$ 125,200
De Anza North Phase 1									
IMP_Link_111	0	36	371	\$ 460	\$ 170,660	1	\$ 13,650		
IMP_SWPP1713	27	36	179	\$ 460	\$ 82,340	1	\$ 13,650		
IMP_SWPP1714	30	39	365	\$ 460	\$ 167,900	1	\$ 13,650		
SWPP1710	39	39	349	\$ 460	\$ 160,540	1	\$ 13,650		
SWPP1712	39	39	211	\$ 460	\$ 97,060	1	\$ 13,650		
SWPP1919	39	39	185	\$ 460	\$ 85,100	2	\$ 27,300		
			1,660		\$ 763,600		\$ 95,550		\$ 859,150
De Anza North Phase 2									
IMP_Link_115	12	24	158	\$ 350	\$ 55,300	1	\$ 12,990		
IMP_Link_116	12	24	79	\$ 350	\$ 27,650	1	\$ 12,990		
IMP_Link_1	24	30	53	\$ 400	\$ 21,200	1	\$ 13,150		
IMP_SWPP1552	27	36	292	\$ 460	\$ 134,320	1	\$ 13,650		
IMP_SWPP1912	27	33	285	\$ 430	\$ 122,550	1	\$ 13,510		
IMP_SWPP1913	27	33	108	\$ 430	\$ 46,440	1	\$ 13,510		
IMP_SWPP1914	27	33	122	\$ 430	\$ 52,460	1	\$ 13,510		
IMP_SWPP1323	24	36	72	\$ 460	\$ 33,120	1	\$ 13,650		
IMP_SWPP1324	24	36	58	\$ 460	\$ 26,680	1	\$ 13,650		
SWPP3010	24	24	137	\$ 350	\$ 47,950	1	\$ 12,990		
IMP_SWPP4393	27	36	73	\$ 460	\$ 33,580	1	\$ 13,650		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP4488	27	36	135	\$ 460	\$ 62,100	1	\$ 13,650		
IMP_SWPP4493	27	36	14	\$ 460	\$ 6,440	1	\$ 13,650		
IMP_SWPP4499	18	24	189	\$ 350	\$ 66,150	2	\$ 25,980		
			1,775		\$ 735,940		\$ 200,530		\$ 936,470
De Anza South									
IMP_SWPP2493	15	30	221	\$ 400	\$ 88,400	1	\$ 13,150		
IMP_SWPP2499	30	42	475	\$ 510	\$ 242,250	1	\$ 14,000		
IMP_SWPP2500	30	42	188	\$ 510	\$ 95,880	1	\$ 14,000		
IMP_SWPP3443	33	48	130	\$ 550	\$ 71,500	2	\$ 29,600		
			1,014		\$ 498,030		\$ 70,750		\$ 568,780
De Foe									
IMP_SWPP316	18	24	53	\$ 350	\$ 18,550	1	\$ 12,990		
IMP_SWPP3248	12	36	16	\$ 460	\$ 7,360	1	\$ 13,650		
IMP_SWPP3249	18	24	158	\$ 350	\$ 55,300	1	\$ 12,990		
IMP_SWPP396	18	24	238	\$ 350	\$ 83,300	2	\$ 25,980		
			465		\$ 164,510		\$ 65,610		\$ 230,120
DeAnza									
IMP_SWPP2205	15	24	203	\$ 350	\$ 71,050	2	\$ 25,980		
			203		\$ 71,050		\$ 25,980		\$ 97,030
Deep Cliffe									
IMP_SWPP5411	15	18	169	\$ 290	\$ 49,010	1	\$ 12,830		
IMP_SWPP5418	12	15	313	\$ 270	\$ 84,510	2	\$ 25,480		
			482		\$ 133,520		\$ 38,310		\$ 171,830
Derbyshire									
IMP_SWPP1621	12	18	249	\$ 290	\$ 72,210	1	\$ 12,830		
IMP_SWPP1622	15	21	262	\$ 310	\$ 81,220	1	\$ 12,920		
IMP_SWPP260	12	18	287	\$ 290	\$ 83,230	1	\$ 12,830		

Cupertino Storm Drain Master Plan
 Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP261	10	18	303	\$ 290	\$ 87,870	2	\$ 25,660		
			1,101		\$ 324,530		\$ 64,240		\$ 388,770
Drake									
IMP_SWPP1265	12	15	289	\$ 270	\$ 78,030	1	\$ 12,740		
IMP_SWPP2976	12	15	165	\$ 270	\$ 44,550	1	\$ 12,740		
IMP_SWPP3759	15	18	143	\$ 290	\$ 41,470	1	\$ 12,830		
IMP_SWPP3793	12	18	388	\$ 290	\$ 112,520	2	\$ 25,660		
			985		\$ 276,570		\$ 63,970		\$ 340,540
Elmsford									
IMP_SWPP1094	12	18	296	\$ 290	\$ 85,840	1	\$ 12,830		
IMP_SWPP1095	12	18	291	\$ 290	\$ 84,390	1	\$ 12,830		
IMP_SWPP1611	12	18	594	\$ 290	\$ 172,260	2	\$ 25,660		
			1,181		\$ 342,490		\$ 51,320		\$ 393,810
Estates									
IMP_SWPP2020	15	24	198	\$ 350	\$ 69,300	1	\$ 12,990		
IMP_SWPP1699	12	18	240	\$ 290	\$ 69,600	1	\$ 12,830		
IMP_SWPP575	15	24	289	\$ 350	\$ 101,150	2	\$ 25,980		
			727		\$ 240,050		\$ 51,800		\$ 291,850
Fairwoods									
IMP_Link_113	0	24	323	\$ 350	\$ 113,050	1	\$ 12,990		
IMP_SWPP1786	12	24	182	\$ 350	\$ 63,700	1	\$ 12,990		
IMP_SWPP1787	12	24	122	\$ 350	\$ 42,700	2	\$ 25,980		
			627		\$ 219,450		\$ 51,960		\$ 271,410
Farallone									
IMP_SWPP108	15	18	191	\$ 290	\$ 55,390	1	\$ 12,830		
IMP_SWPP476	15	18	139	\$ 290	\$ 40,310	2	\$ 25,660		
			330		\$ 95,700		\$ 38,490		\$ 134,190

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Felton									
IMP_SWPP187	18	36	235	\$ 460	\$ 108,100	1	\$ 13,650		
IMP_SWPP3962	18	36	64	\$ 460	\$ 29,440	1	\$ 13,650		
IMP_SWPP3963	18	36	31	\$ 460	\$ 14,260	2	\$ 27,300		
			330		\$ 151,800		\$ 54,600		\$ 206,400
Gardena									
IMP_SWPP2105	12	15	166	\$ 270	\$ 44,820	2	\$ 25,480		
			166		\$ 44,820		\$ 25,480		\$ 70,300
Gardenside									
IMP_Link_113	0	18	170	\$ 290	\$ 49,300	1	\$ 12,830		
IMP_SWPP617	15	18	310	\$ 290	\$ 89,900	1	\$ 12,830		
IMP_SWPP618	15	18	272	\$ 290	\$ 78,880	1	\$ 12,830		
IMP_SWPP619	15	18	181	\$ 290	\$ 52,490	2	\$ 25,660		
			933		\$ 270,570		\$ 64,150		\$ 334,720
Greenwood									
IMP_SWPP1016	12	18	348	\$ 290	\$ 100,920	1	\$ 12,830		
IMP_SWPP1017	12	18	364	\$ 290	\$ 105,560	2	\$ 25,660		
			712		\$ 206,480		\$ 38,490		\$ 244,970
Homestead									
IMP_SWPP213	21	24	337	\$ 350	\$ 117,950	1	\$ 12,990		
IMP_SWPP4765	18	21	11	\$ 310	\$ 3,410	1	\$ 12,920		
IMP_Link_101	21	30	902	\$ 400	\$ 360,800	1	\$ 13,150		
IMP HOMESTEAD	21	36	651	\$ 460	\$ 299,460	1	\$ 13,650		
IMP_SDMP_HOM6	24	36	47	\$ 460	\$ 21,620	1	\$ 13,650		
IMP_SDMP_SNV1	21	24	48	\$ 350	\$ 16,800	1	\$ 12,990		
IMP_SWPP118	21	24	293	\$ 350	\$ 102,550	1	\$ 12,990		
IMP_SWPP482	24	36	224	\$ 460	\$ 103,040	1	\$ 13,650		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP483	27	36	360	\$ 460	\$ 165,600	2	\$ 27,300		
			2,873		\$ 1,191,230		\$ 133,290		\$ 1,324,520
Homestead West Phase 1									
SWPP1595	36	36	453	\$ 460	\$ 208,380	1	\$ 13,650		
IMP_SWPP115	30	42	95	\$ 510	\$ 48,450	1	\$ 14,000		
IMP_SWPP116	30	42	25	\$ 510	\$ 12,750	1	\$ 14,000		
IMP_SWPP1360	12	36	69	\$ 460	\$ 31,740	1	\$ 13,650		
IMP_SWPP1511	36	42	34	\$ 510	\$ 17,340	1	\$ 14,000		
IMP_SWPP1925	30	36	14	\$ 460	\$ 6,440	1	\$ 13,650		
IMP_SWPP1926	30	36	72	\$ 460	\$ 33,120	1	\$ 13,650		
IMP_SWPP2008	27	36	478	\$ 460	\$ 219,880	1	\$ 13,650		
IMP_SWPP2009	27	36	35	\$ 460	\$ 16,100	1	\$ 13,650		
IMP_SWPP2010	27	36	190	\$ 460	\$ 87,400	1	\$ 13,650		
IMP_SWPP214	36	42	396	\$ 510	\$ 201,960	1	\$ 14,000		
IMP_SWPP215	36	54	236	\$ 630	\$ 148,680	1	\$ 15,600		
IMP_SWPP216	36	54	170	\$ 630	\$ 107,100	1	\$ 15,600		
IMP_SWPP217	42	54	279	\$ 630	\$ 175,770	1	\$ 15,600		
IMP_SWPP218	42	54	142	\$ 630	\$ 89,460	1	\$ 15,600		
IMP_SWPP219	42	60	428	\$ 680	\$ 291,040	1	\$ 16,000		
IMP_SWPP3388	33	42	392	\$ 510	\$ 199,920	1	\$ 14,000		
IMP_SWPP3395	30	42	102	\$ 510	\$ 52,020	1	\$ 14,000		
IMP_SWPP342	30	36	78	\$ 460	\$ 35,880	1	\$ 13,650		
IMP_SWPP414	24	30	235	\$ 400	\$ 94,000	1	\$ 13,150		
IMP_SWPP415	24	30	133	\$ 400	\$ 53,200	1	\$ 13,150		
IMP_SWPP4490	27	36	348	\$ 460	\$ 160,080	1	\$ 13,650		
IMP_SWPP4491	30	36	150	\$ 460	\$ 69,000	1	\$ 13,650		
IMP_SWPP4492	30	36	179	\$ 460	\$ 82,340	1	\$ 13,650		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP4494	30	42	115	\$ 510	\$ 58,650	1	\$ 14,000		
IMP_SWPP4508	27	42	446	\$ 510	\$ 227,460	1	\$ 14,000		
IMP_SWPP4509	27	42	270	\$ 510	\$ 137,700	1	\$ 14,000		
IMP_SWPP698	36	42	153	\$ 510	\$ 78,030	1	\$ 14,000		
IMP_SWPP773	33	42	219	\$ 510	\$ 111,690	1	\$ 14,000		
IMP_SWPP791	21	30	373	\$ 400	\$ 149,200	1	\$ 13,150		
IMP_SWPP792	21	24	217	\$ 350	\$ 75,950	1	\$ 12,990		
IMP_SWPP793	18	24	279	\$ 350	\$ 97,650	1	\$ 12,990		
IMP_SWPP794	27	36	292	\$ 460	\$ 134,320	1	\$ 13,650		
IMP_SWPP816	24	30	403	\$ 400	\$ 161,200	1	\$ 13,150		
IMP_SWPP817	24	30	347	\$ 400	\$ 138,800	1	\$ 13,150		
IMP_SWPP818	24	30	30	\$ 400	\$ 12,000	2	\$ 26,300		
			7,877		\$ 3,824,700		\$ 514,230		\$ 4,338,930
Homestead West Phase 2									
IMP_SWPP3331	12	18	581	\$ 290	\$ 168,490	1	\$ 12,830		
IMP_SWPP79	12	18	586	\$ 290	\$ 169,940	1	\$ 12,830		
IMP_SWPP893	12	18	55	\$ 290	\$ 15,950	1	\$ 12,830		
IMP_SWPP894	12	18	38	\$ 290	\$ 11,020	2	\$ 25,660		
			1,260		\$ 365,400		\$ 64,150		\$ 429,550
Imperial									
IMP_SWPP2239	21	30	119	\$ 400	\$ 47,600	1	\$ 13,150		
IMP_SWPP3351	21	24	320	\$ 350	\$ 112,000	1	\$ 12,990		
IMP_SWPP965	30	36	53	\$ 460	\$ 24,380	2	\$ 27,300		
			492		\$ 183,980		\$ 53,440		\$ 237,420
Kim									
IMP_SWPP123	12	18	252	\$ 290	\$ 73,080	1	\$ 12,830		
IMP_SWPP124	12	24	148	\$ 350	\$ 51,800	1	\$ 12,990		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP4211	12	18	94	\$ 290	\$ 27,260	1	\$ 12,830		
IMP_SWPP981	12	30	371	\$ 400	\$ 148,400	1	\$ 13,150		
IMP_SWPP982	12	30	50	\$ 400	\$ 20,000	2	\$ 26,300		
			915		\$ 320,540		\$ 78,100		\$ 398,640
La Mar									
IMP_SWPP1135	12	21	240	\$ 310	\$ 74,400	1	\$ 12,920		
IMP_SWPP1136	12	18	113	\$ 290	\$ 32,770	1	\$ 12,830		
IMP_SWPP1467	15	18	126	\$ 290	\$ 36,540	1	\$ 12,830		
IMP_SWPP200	12	15	245	\$ 270	\$ 66,150	1	\$ 12,740		
IMP_SWPP3353	12	21	253	\$ 310	\$ 78,430	1	\$ 12,920		
IMP_SWPP3355	12	24	285	\$ 350	\$ 99,750	1	\$ 12,990		
IMP_SWPP3356	12	24	203	\$ 350	\$ 71,050	1	\$ 12,990		
IMP_SWPP3671	18 (Outfall)	24	118	\$ 350	\$ 41,300	1	\$ 12,990		
IMP_SWPP3697	15	30	21	\$ 400	\$ 8,400	2	\$ 26,300		
			1,604		\$ 508,790		\$ 129,510		\$ 638,300
Lazaneo									
IMP_SWPP2090	21	24	331	\$ 350	\$ 115,850	1	\$ 12,990		
IMP_SWPP459	21	30	20	\$ 400	\$ 8,000	2	\$ 26,300		
			351		\$ 123,850		\$ 39,290		\$ 163,140
Lilac									
IMP_SWPP1154	12	15	90	\$ 270	\$ 24,300	1	\$ 12,740		
IMP_SWPP1372	12	24	300	\$ 350	\$ 105,000	1	\$ 12,990		
IMP_SWPP1648	12	15	328	\$ 270	\$ 88,560	1	\$ 12,740		
IMP_SWPP1649	10	12	233	\$ 260	\$ 60,580	2	\$ 25,460		
			951		\$ 278,440		\$ 63,930		\$ 342,370
Linda Vista									
SWPP1427	12	18	190	\$ 290	\$ 55,100	1	\$ 12,830		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
SWPP1429	12	18	173	\$ 290	\$ 50,170	2	\$ 25,660		
			363		\$ 105,270		\$ 38,490		\$ 143,760
Longdown									
IMP_SWPP2267	15	21	313	\$ 310	\$ 97,030	1	\$ 12,920		
IMP_SWPP2271	15	24	19	\$ 350	\$ 6,650	2	\$ 25,980		
			332		\$ 103,680		\$ 38,900		\$ 142,580
Mariani									
IMP_SWPP1666	36	42	234	\$ 510	\$ 119,340	1	\$ 14,000		
IMP_SWPP1727	36	42	35	\$ 510	\$ 17,850	1	\$ 14,000		
IMP_SWPP2098	36	42	285	\$ 510	\$ 145,350	2	\$ 28,000		
			554		\$ 282,540		\$ 56,000		\$ 338,540
Martinwood									
IMP_SWPP1127	15	18	42	\$ 290	\$ 12,180	1	\$ 12,830		
IMP_SWPP1137	12	18	381	\$ 290	\$ 110,490	1	\$ 12,830		
IMP_SWPP3854	12	18	125	\$ 290	\$ 36,250	2	\$ 25,660		
			548		\$ 158,920		\$ 51,320		\$ 210,240
Mary									
IMP_SWPP1093	36	42	140	\$ 510	\$ 71,400	1	\$ 14,000		
IMP_SWPP2112	36	42	204	\$ 510	\$ 104,040	1	\$ 14,000		
IMP_SWPP2113	36	42	87	\$ 510	\$ 44,370	2	\$ 28,000		
			431		\$ 219,810		\$ 56,000		\$ 275,810
Merritt									
IMP_SWPP1057	21	36	284	\$ 460	\$ 130,640	1	\$ 13,650		
IMP_SWPP1184	21	36	269	\$ 460	\$ 123,740	1	\$ 13,650		
IMP_SWPP1263	18	36	78	\$ 460	\$ 35,880	1	\$ 13,650		
IMP_SWPP1264	18	36	269	\$ 460	\$ 123,740	1	\$ 13,650		
IMP_SWPP6540	18	36	33	\$ 460	\$ 15,180	2	\$ 27,300		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
			933		\$ 429,180		\$ 81,900		\$ 511,080
Meteor									
IMP_SWPP1401	12	15	197	\$ 270	\$ 53,190	1	\$ 12,740		
IMP_SWPP46	12	15	324	\$ 270	\$ 87,480	1	\$ 12,740		
IMP_SWPP4744	12	15	20	\$ 270	\$ 5,400	2	\$ 25,480		
			541		\$ 146,070		\$ 50,960		\$ 197,030
Miramonte									
IMP_SWPP2133	14	21	193	\$ 310	\$ 59,830	1	\$ 12,920		
IMP_SWPP2772	21	24	27	\$ 350	\$ 9,450	1	\$ 12,990		
IMP_SWPP2774	21	24	49	\$ 350	\$ 17,150	1	\$ 12,990		
IMP_SWPP5407	14	21	87	\$ 310	\$ 26,970	1	\$ 12,920		
IMP_SWPP5487	14	21	22	\$ 310	\$ 6,820	1	\$ 12,920		
IMP_SWPP967	21	24	308	\$ 350	\$ 107,800	2	\$ 25,980		
			686		\$ 228,020		\$ 90,720		\$ 318,740
Norwich									
Link_112	0	24	539	\$ 350	\$ 188,650	1	\$ 12,990		
IMP_SWPP1018	12	24	411	\$ 350	\$ 143,850	1	\$ 12,990		
IMP_SWPP1019	18	30	357	\$ 400	\$ 142,800	1	\$ 13,150		
IMP_SWPP1044	21	30	300	\$ 400	\$ 120,000	1	\$ 13,150		
IMP_SWPP1045	21	30	395	\$ 400	\$ 158,000	1	\$ 13,150		
IMP_SWPP1058	27	48	66	\$ 550	\$ 36,300	1	\$ 14,800		
IMP_SWPP1152	24	36	669	\$ 460	\$ 307,740	1	\$ 13,650		
IMP_SWPP1242	27	36	145	\$ 460	\$ 66,700	1	\$ 13,650		
IMP_SWPP1243	27	36	27	\$ 460	\$ 12,420	2	\$ 27,300		
			2,909		\$ 1,176,460		\$ 134,830		\$ 1,311,290
Palo Vista									
IMP_SWPP3417	21	30	14	\$ 400	\$ 5,600	1	\$ 13,150		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP3432	21	30	282	\$ 400	\$ 112,800	1	\$ 13,150		
IMP_SWPP3434	18	30	40	\$ 400	\$ 16,000	1	\$ 13,150		
IMP_SWPP3435	18	30	273	\$ 400	\$ 109,200	1	\$ 13,150		
IMP_SWPP3436	18	30	40	\$ 400	\$ 16,000	2	\$ 26,300		
			649		\$ 259,600		\$ 78,900		\$ 338,500
Par Three									
IMP_SWPP5229	12	15	201	\$ 270	\$ 54,270	2	\$ 25,480		
			201		\$ 54,270		\$ 25,480		\$ 79,750
Parlett									
IMP_SWPP2091	12	18	514	\$ 290	\$ 149,060	2	\$ 25,660		
			514		\$ 149,060		\$ 25,660		\$ 174,720
Pendergast									
IMP_SWPP1776	15	30	824	\$ 400	\$ 329,600	2	\$ 26,300		
			824		\$ 329,600		\$ 26,300		\$ 355,900
Phar Lap 1									
SWPP1072	18	36	79	\$ 460	\$ 36,340	1	\$ 13,650		
SWPP1073	21	24	150	\$ 350	\$ 52,500	1	\$ 12,990		
SWPP1191	18	24	374	\$ 350	\$ 130,900	1	\$ 12,990		
SWPP1192	21	24	298	\$ 350	\$ 104,300	1	\$ 12,990		
SWPP5149	18	36	32	\$ 460	\$ 14,720	1	\$ 13,650		
SWPP5212	18	36	40	\$ 460	\$ 18,400	1	\$ 13,650		
IMP_SWPP972	15	18	281	\$ 290	\$ 81,490	1	\$ 12,830		
IMP_SWPP974	18	24	143	\$ 350	\$ 50,050	2	\$ 25,980		
			1,397		\$ 488,700		\$ 118,730		\$ 607,430
Phar Lap 2									
IMP_SWPP5134	18	24	390	\$ 350	\$ 136,500	1	\$ 12,990		
IMP_SWPP846	12	18	256	\$ 290	\$ 74,240	1	\$ 12,830		

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP847	12	24	277	\$ 350	\$ 96,950	1	\$ 12,990		
IMP_SWPP848	12	24	306	\$ 350	\$ 107,100	2	\$ 25,980		
			1,229		\$ 414,790		\$ 64,790		\$ 479,580
Plum Tree									
IMP_SWPP1347	12	18	270	\$ 290	\$ 78,300	1	\$ 12,830		
IMP_SWPP1348	12	18	249	\$ 290	\$ 72,210	1	\$ 12,830		
IMP_SWPP1343	15	18	243	\$ 290	\$ 70,470	2	\$ 25,660		
			762		\$ 220,980		\$ 51,320		\$ 272,300
Portal									
IMP_SWPP2053	21	30	137	\$ 400	\$ 54,800	1	\$ 13,150		
IMP_SWPP2055	21	30	12	\$ 400	\$ 4,800	1	\$ 13,150		
IMP_SWPP2056	21	30	244	\$ 400	\$ 97,600	1	\$ 13,150		
IMP_SWPP234	12	18	317	\$ 290	\$ 91,930	1	\$ 12,830		
IMP_SWPP235	12	18	329	\$ 290	\$ 95,410	1	\$ 12,830		
IMP_SWPP539	15	24	393	\$ 350	\$ 137,550	1	\$ 12,990		
IMP_SWPP540	15	30	155	\$ 400	\$ 62,000	1	\$ 13,150		
IMP_SWPP627	21	30	232	\$ 400	\$ 92,800	1	\$ 13,150		
IMP_SWPP628	21	30	27	\$ 400	\$ 10,800	2	\$ 26,300		
			1,846		\$ 647,690		\$ 130,700		\$ 778,390
Richwood									
IMP_SWPP1546	12	18	283	\$ 290	\$ 82,070	1	\$ 12,830		
IMP_SWPP1547	12	18	235	\$ 290	\$ 68,150	1	\$ 12,830		
IMP_SWPP1548	12	18	200	\$ 290	\$ 58,000	1	\$ 12,830		
IMP_SWPP1549	12	18	271	\$ 290	\$ 78,590	1	\$ 12,830		
IMP_SWPP1550	15	18	192	\$ 290	\$ 55,680	2	\$ 25,660		
			1,181		\$ 342,490		\$ 76,980		\$ 419,470
Rivercrest									

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP2117	21	36	148	\$ 460	\$ 68,080	1	\$ 13,650		
IMP_SWPP470	21	36	208	\$ 460	\$ 95,680	2	\$ 27,300		
			356		\$ 163,760		\$ 40,950		\$ 204,710
Scofield									
IMP_SWPP1176	18	24	258	\$ 350	\$ 90,300	1	\$ 12,990		
IMP_SWPP1897	18	24	406	\$ 350	\$ 142,100	1	\$ 12,990		
IMP_SWPP1177	18	24	59	\$ 350	\$ 20,650	1	\$ 12,990		
IMP_SWPP2494	21	30	883	\$ 400	\$ 353,200	1	\$ 13,150		
IMP_SWPP2495	21	30	37	\$ 400	\$ 14,800	1	\$ 13,150		
IMP_SWPP296	15	18	259	\$ 290	\$ 75,110	2	\$ 25,660		
			1,902		\$ 696,160		\$ 90,930		\$ 787,090
Somerset									
IMP_SWPP70	12	18	226	\$ 290	\$ 65,540	1	\$ 12,830		
IMP_SWPP72	18	18	391	\$ 290	\$ 113,390	2	\$ 25,660		
			617		\$ 178,930		\$ 38,490		\$ 217,420
St Joseph									
IMP_SWPP1448	15	21	221	\$ 310	\$ 68,510	1	\$ 12,920		
IMP_SWPP1449	15	21	36	\$ 310	\$ 11,160	2	\$ 25,840		
			257		\$ 79,670		\$ 38,760		\$ 118,430
Stevens Canyon									
IMP_SWPP306	18	24	148	\$ 350	\$ 51,800	1	\$ 12,990		
IMP_SWPP5410	Deepen Upstream Node	18	36	\$ 290	\$ 10,440	1	\$ 12,830		
IMP_SWPP5441	Deepen Upstream Node	24	97	\$ 350	\$ 33,950	2	\$ 25,980		
			281		\$ 96,190		\$ 51,800		\$ 147,990

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Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Stevens Creek									
IMP_SWPP1893	30	36	86	\$ 460	\$ 39,560	1	\$ 13,650		
IMP_SWPP2000	27	30	378	\$ 400	\$ 151,200	1	\$ 13,150		
IMP_SWPP292	27	36	229	\$ 460	\$ 105,340	1	\$ 13,650		
IMP_SWPP293	27	36	114	\$ 460	\$ 52,440	1	\$ 13,650		
IMP_SWPP294	27	36	74	\$ 460	\$ 34,040	1	\$ 13,650		
IMP_SWPP4506	27	30	83	\$ 400	\$ 33,200	1	\$ 13,150		
IMP_SWPP100	42	60	202	\$ 680	\$ 137,360	1	\$ 16,000		
IMP_SWPP101	42	60	161	\$ 680	\$ 109,480	1	\$ 16,000		
IMP_SWPP104	42	60	73	\$ 680	\$ 49,640	1	\$ 16,000		
IMP_SWPP1070	54	66	33	\$ 720	\$ 23,760	1	\$ 17,080		
IMP_SWPP111	48	66	15	\$ 720	\$ 10,800	1	\$ 17,080		
IMP_SWPP1586	33	42	117	\$ 510	\$ 59,670	1	\$ 14,000		
IMP_SWPP1773	54	72	172	\$ 780	\$ 134,160	1	\$ 17,440		
IMP_SWPP1852	54	66	41	\$ 720	\$ 29,520	1	\$ 17,080		
IMP_SWPP1891	27	30	398	\$ 400	\$ 159,200	1	\$ 13,150		
IMP_SWPP1895	30	36	134	\$ 460	\$ 61,640	1	\$ 13,650		
IMP_SWPP1896	30	36	40	\$ 460	\$ 18,400	1	\$ 13,650		
IMP_SWPP1997	21	36	312	\$ 460	\$ 143,520	1	\$ 13,650		
IMP_SWPP2001	48	60	93	\$ 680	\$ 63,240	1	\$ 16,000		
IMP_SWPP2002	18	24	79	\$ 350	\$ 27,650	1	\$ 12,990		
IMP_SWPP2003	36	54	61	\$ 630	\$ 38,430	1	\$ 15,600		
IMP_SWPP2004	42	54	146	\$ 630	\$ 91,980	1	\$ 15,600		
IMP_SWPP2011	48	60	82	\$ 680	\$ 55,760	1	\$ 16,000		
IMP_SWPP2012	48	60	377	\$ 680	\$ 256,360	1	\$ 16,000		
IMP_SWPP2021	54	66	234	\$ 720	\$ 168,480	1	\$ 17,080		
IMP_SWPP2022	54	66	105	\$ 720	\$ 75,600	1	\$ 17,080		

Cupertino Storm Drain Master Plan
Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP2023	54	66	240	\$ 720	\$ 172,800	1	\$ 17,080		
IMP_SWPP2027	42	54	43	\$ 630	\$ 27,090	1	\$ 15,600		
IMP_SWPP2028	42	54	73	\$ 630	\$ 45,990	1	\$ 15,600		
IMP_SWPP1199	54	72	87	\$ 780	\$ 67,860	1	\$ 17,440		
IMP_SWPP1200	54	72	225	\$ 780	\$ 175,500	1	\$ 17,440		
IMP_SWPP1201	54	66	202	\$ 720	\$ 145,440	1	\$ 17,080		
IMP_SWPP1277	33	42	120	\$ 510	\$ 61,200	1	\$ 14,000		
IMP_SWPP1278	33	42	132	\$ 510	\$ 67,320	1	\$ 14,000		
IMP_SWPP1279	33	42	41	\$ 510	\$ 20,910	1	\$ 14,000		
IMP_SWPP1285	21	36	148	\$ 460	\$ 68,080	1	\$ 13,650		
IMP_SWPP1286	21	36	243	\$ 460	\$ 111,780	1	\$ 13,650		
IMP_SWPP1287	21	36	71	\$ 460	\$ 32,660	1	\$ 13,650		
IMP_SWPP1288	21	36	334	\$ 460	\$ 153,640	1	\$ 13,650		
IMP_SWPP1302	54	66	210	\$ 720	\$ 151,200	1	\$ 17,080		
IMP_SWPP2066	33	54	34	\$ 630	\$ 21,420	1	\$ 15,600		
IMP_SWPP2067	33	42	145	\$ 510	\$ 73,950	1	\$ 14,000		
IMP_SWPP251	24	36	402	\$ 460	\$ 184,920	1	\$ 13,650		
IMP_SWPP3012	54	54	166	\$ 630	\$ 104,580	1	\$ 15,600		
IMP_SWPP3013	36	54	246	\$ 630	\$ 154,980	1	\$ 15,600		
IMP_SWPP3062	33	42	232	\$ 510	\$ 118,320	1	\$ 14,000		
IMP_SWPP3063	33	42	274	\$ 510	\$ 139,740	1	\$ 14,000		
IMP_SWPP3064	12	24	76	\$ 350	\$ 26,600	1	\$ 12,990		
IMP_SWPP3385	42	54	421	\$ 630	\$ 265,230	1	\$ 15,600		
IMP_SWPP3386	42	54	98	\$ 630	\$ 61,740	1	\$ 15,600		
IMP_SWPP3444	33	42	148	\$ 510	\$ 75,480	1	\$ 14,000		
IMP_SWPP4409	27	30	84	\$ 400	\$ 33,600	1	\$ 13,150		
IMP_SWPP4495	27	30	451	\$ 400	\$ 180,400	1	\$ 13,150		

Cupertino Storm Drain Master Plan
 Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP4690	12	36	85	\$ 460	\$ 39,100	1	\$ 13,650		
IMP_SWPP4693	15	30	85	\$ 400	\$ 34,000	1	\$ 13,150		
IMP_SWPP4861	12	24	85	\$ 350	\$ 29,750	1	\$ 12,990		
IMP_SWPP607	54	66	521	\$ 720	\$ 375,120	1	\$ 17,080		
IMP_SWPP608	54	66	407	\$ 720	\$ 293,040	1	\$ 17,080		
IMP_SWPP650	48	60	30	\$ 680	\$ 20,400	1	\$ 16,000		
IMP_SWPP717	24	36	464	\$ 460	\$ 213,440	1	\$ 13,650		
IMP_SWPP721	21	36	367	\$ 460	\$ 168,820	1	\$ 13,650		
IMP_SWPP722	21	36	210	\$ 460	\$ 96,600	1	\$ 13,650		
IMP_SWPP723	24	36	240	\$ 460	\$ 110,400	1	\$ 13,650		
IMP_SWPP861	21	36	71	\$ 460	\$ 32,660	1	\$ 13,650		
IMP_SWPP961	33	42	92	\$ 510	\$ 46,920	2	\$ 28,000		
			11,442		\$ 6,333,110		\$ 979,090		\$ 7,312,200
Suisun									
IMP_SWPP432	18	24	116	\$ 350	\$ 40,600	1	\$ 12,990		
IMP_SWPP433	18	24	174	\$ 350	\$ 60,900	1	\$ 12,990		
IMP_SWPP69	18	24	102	\$ 350	\$ 35,700	2	\$ 25,980		
			392		\$ 137,200		\$ 51,960		\$ 189,160
Swallow									
IMP_SWPP266	18	24	192	\$ 350	\$ 67,200	2	\$ 25,980		
			192		\$ 67,200		\$ 25,980		\$ 93,180
Terrace									
IMP_SWPP1008	18	24	257	\$ 350	\$ 89,950	1	\$ 12,990		
IMP_SWPP1009	18	24	265	\$ 350	\$ 92,750	1	\$ 12,990		
IMP_SWPP1410	15	18	255	\$ 290	\$ 73,950	1	\$ 12,830		
IMP_SWPP1411	15	18	257	\$ 290	\$ 74,530	2	\$ 25,660		
			1,034		\$ 331,180		\$ 64,470		\$ 395,650



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Torre									
IMP_SWPP2044	12	18	121	\$ 290	\$ 35,090	1	\$ 12,830		
IMP_SWPP2045	15	24	48	\$ 350	\$ 16,800	1	\$ 12,990		
IMP_SWPP2048	15	24	350	\$ 350	\$ 122,500	1	\$ 12,990		
IMP_SWPP2065	30	36	128	\$ 460	\$ 58,880	1	\$ 13,650		
IMP_SWPP3732	18	24	382	\$ 350	\$ 133,700	2	\$ 25,980		
			1,029		\$ 366,970		\$ 78,440		\$ 445,410
United Place									
IMP_SWPP1857	12	18	175	\$ 290	\$ 50,750	1	\$ 12,830		
IMP_SWPP1858	12	18	29	\$ 290	\$ 8,410	2	\$ 25,660		
			204		\$ 59,160		\$ 38,490		\$ 97,650
Vallco Parkway 1									
IMP_SWPP1013	21	30	335	\$ 400	\$ 134,000	1	\$ 13,150		
IMP_SWPP850-1	21	30	107	\$ 400	\$ 42,800	2	\$ 26,300		
			442		\$ 176,800		\$ 39,450		\$ 216,250
Vallco Parkway 2									
SWPP1999	18	24	25	\$ 350	\$ 8,750	1	\$ 12,990		
IMP_SWPP2576	12	24	65	\$ 350	\$ 22,750	1	\$ 12,990		
IMP_SWPP4689	12	24	72	\$ 350	\$ 25,200	1	\$ 12,990		
IMP_SWPP4700	12	24	222	\$ 350	\$ 77,700	2	\$ 25,980		
			384		\$ 134,400		\$ 64,950		\$ 199,350
Vallco Parkway 3									
IMP_SWPP2603	12	24	214	\$ 350	\$ 74,900	1	\$ 12,990		
IMP_SWPP3743	12	36	69	\$ 460	\$ 31,740	1	\$ 13,650		
IMP_SWPP3744	12	36	87	\$ 460	\$ 40,020	1	\$ 13,650		
IMP_SWPP672	12	36	467	\$ 460	\$ 214,820	2	\$ 27,300		
			837		\$ 361,480		\$ 67,590		\$ 429,070

Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
Valley Green 1									
IMP_SWPP1535	18	24	231	\$ 350	\$ 80,850	1	\$ 12,990		
IMP_SWPP1668	15	18	271	\$ 290	\$ 78,590	2	\$ 25,660		
			502		\$ 159,440		\$ 38,650		\$ 198,090
Valley Green 2									
IMP_Link_92	12	24	214	\$ 350	\$ 74,900	1	\$ 12,990		
IMP_Link_94	15	24	134	\$ 350	\$ 46,900	2	\$ 25,980		
			348		\$ 121,800		\$ 38,970		\$ 160,770
Voss									
IMP_SWPP1322	18	21	331	\$ 310	\$ 102,610	1	\$ 12,920		
IMP_SWPP885	18	21	445	\$ 310	\$ 137,950	1	\$ 12,920		
IMP_SWPP886	18	21	32	\$ 310	\$ 9,920	2	\$ 25,840		
			808		\$ 250,480		\$ 51,680		\$ 302,160
Wheaton									
IMP_SWPP589	12	18	296	\$ 290	\$ 85,840	1	\$ 12,830		
IMP_SWPP590	15	18	276	\$ 290	\$ 80,040	2	\$ 25,660		
			572		\$ 165,880		\$ 38,490		\$ 204,370
White Fir									
IMP_SWPP181	12	15	116	\$ 270	\$ 31,320	2	\$ 25,480		
			116		\$ 31,320		\$ 25,480		\$ 56,800
Wildflower									
IMP_SWPP925	15	18	162	\$ 290	\$ 46,980	2	\$ 25,660		
			162		\$ 46,980		\$ 25,660		\$ 72,640
Wolfe									
IMP_SDMP_WOL13	24	30	69	\$ 400	\$ 27,600	1	\$ 13,150		
IMP_SWPP1626	12	21	293	\$ 310	\$ 90,830	1	\$ 12,920		
IMP_SWPP1627	18	24	151	\$ 350	\$ 52,850	1	\$ 12,990		

Cupertino Storm Drain Master Plan
Appendix C: Detailed Cost Estimate Summary



Project/Pipes	Ex. Diameter (in)	Imp. Diameter (in)	Length (ft)	Unit Pipe Cost	Total Pipe Cost	Manholes	Manhole Cost	Flap Gate	CIP Subtotal
IMP_SWPP1628	18	24	455	\$ 350	\$ 159,250	1	\$ 12,990		
IMP_SWPP771	18	24	176	\$ 350	\$ 61,600	1	\$ 12,990		
IMP_SWPP772	18	24	171	\$ 350	\$ 59,850	2	\$ 25,980		
			1,315		\$ 451,980		\$ 91,020		\$ 543,000
Wunderlich									
IMP_SWPP275	15	18	374	\$ 290	\$ 108,460	1	\$ 12,830		
IMP_SWPP276	15	18	328	\$ 290	\$ 95,120	1	\$ 12,830		
IMP_SWPP277	18	24	240	\$ 350	\$ 84,000	1	\$ 12,990		
IMP_SWPP719	18	24	672	\$ 350	\$ 235,200	1	\$ 12,990		
IMP_SWPP720	15	24	163	\$ 350	\$ 57,050	2	\$ 25,980		
			1,777		\$ 579,830		\$ 77,620		\$ 657,450
Low Priority Totals:			86,762		\$ 34,264,870		\$ 6,621,400		\$ 40,886,270

Appendix D

High Priority Capital Improvement Plan Project Sheets

Project Name:	Pumpkin Fiesta - Phase 1
Project ID:	1
Priority:	High
Cost:	\$ 480,000

Project Description: There is currently significant flooding along Pumpkin and Cranberry Drive (east of the Union Pacific railroad tracks) and along November Drive and Fiesta Lane (west of the Union Pacific railroad tracks). This area is near JFK Middle School and Highway 85. Phase 1 would increase the size of pipes downstream of the railroad crossing. This improvement lowers the HGL along the system and will allow for the additional peak flows when the system is upsized under the railroad.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP3502	112	36	\$ 460	\$ 51,520	1	\$ 13,650	\$ 65,170
IMP_SWPP4101	225	36	\$ 460	\$ 103,500	1	\$ 13,650	\$ 117,150
IMP_SWPP4294	250	36	\$ 460	\$ 115,000	1	\$ 13,650	\$ 128,650
IMP_SWPP989	196	60	\$ 680	\$ 133,280	2	\$ 16,000	\$ 165,280
	783				5		\$ 476,250

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Pumpkin Fiesta – Phase 2
Project ID:	2
Priority:	High
Cost:	\$ 1,400,000

Project Description: There is currently significant flooding along Pumpkin and Cranberry Drive (east of the Union Pacific railroad tracks) and along November Drive and Fiesta Lane (west of the Union Pacific railroad tracks). This area is near JFK Middle School and Highway 85. Phase 2 would install a new piping that would connect Bubb to Pumpkin and upsize piping under Pumpkin to the railroad. New 3-foot piping under the railroad would be installed via jack and bore method along the existing easement and under the railroad tracks. This would provide 10-year protection to the November Drive, Pumpkin, and Cranberry neighborhood and alleviate some flooding along Bubb. Further investigation is necessary to confirm easements and constructability.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_Link_142	277	36	\$ 460	\$ 127,420	2	\$ 27,300	\$ 141,070
IMP_Link_82	141	36	\$ 460	\$ 64,860	1	\$ 13,650	\$ 78,510
IMP_Link_85	70	36	\$ 460	\$ 32,200	1	\$ 13,650	\$ 45,850
IMP_Link_87	143	36	\$ 460	\$ 65,780	1	\$ 13,650	\$ 79,430
SWPP1751	152	36	\$ 460	\$ 69,920	1	\$ 13,650	\$ 83,570
SWPP1752	318	36	\$ 460	\$ 146,280	1	\$ 13,650	\$ 173,580
Casing	400	48	\$ 2,000	\$ 800,000			\$ 800,000
Total	1501				7		\$ 1,402,010

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Bubb – Phase 1
Project ID:	3
Priority:	High
Cost:	\$ 180,000

Project Description: There is currently significant flooding along Bubb Road between McClellan and Rainbow, adjacent to JFK Middle School. Phase 1 would add a 42-inch pipe to connect the storm drain system under Bubb to the system under Columbus. This eliminates flooding at the southern-most manhole on Bubb and reduces flows along Bubb where flooding is a concern. It appears the Columbus system has capacity for the additional flows.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_Link_96	302	36	\$ 510	\$ 154,020	2	\$ 28,000	\$ 182,020
Total	302				2		\$ 182,020

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Bubb – Phase 2
Project ID:	4
Priority:	High
Cost:	\$ 560,000

Project Description: There is currently significant flooding along Bubb Road between McClellan and Rainbow, adjacent to JFK Middle School. Phase 2 would upsize the northern parallel pipe under McClellan after Phase 1 is complete. It would also upsize existing pipe along McClellan from Bubb to September Drive, except under the railroad. Upsizing the pipe under the railroad would provide minimal benefit to reduce flooding upstream at the low point on Bubb Road, so it was not included as an improvement.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
Link_99	5	48	\$ 550	\$ 2,750	2	\$ 14,800	\$ 32,350
IMP_SWPP5716	112	42	\$ 510	\$ 57,120	1	\$ 14,000	\$ 71,120
IMP_Link_98	7	36	\$ 460	\$ 3,220	1	\$ 13,650	\$ 16,870
IMP_SWPP1307	23	48	\$ 550	\$ 12,650	1	\$ 14,800	\$ 27,450
IMP_SWPP2190	19	24	\$ 350	\$ 6,650	1	\$ 12,990	\$ 19,640
IMP_SWPP4296	94	42	\$ 510	\$ 47,940	1	\$ 14,000	\$ 61,940
IMP_SWPP6141	237	42	\$ 510	\$ 120,870	1	\$ 14,000	\$ 134,870
IMP_SWPP976	195	42	\$ 510	\$ 99,450	1	\$ 14,000	\$ 113,450
IMP_SWPP977	130	42	\$ 510	\$ 66,300	1	\$ 14,000	\$ 80,300
Total	1501				10		\$ 557,990

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration



Project Name:	Bubb – Phase 3
Project ID:	5
Priority:	High
Cost:	\$ 1,650,000

Project Description: There is currently significant flooding along Bubb Road between McClellan and Rainbow, adjacent to JFK Middle School. Phase 3 would upsize the pipes under Bubb from between 12-inches and 27-inches to 18-inches and 48-inches after Phase 1 and Phase 2 projects are complete.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP857	42	36	\$ 460	\$ 19,320	2	\$ 13,650	\$ 46,620
IMP_Link_145	121	36	\$ 460	\$ 55,660	1	\$ 13,650	\$ 69,310
IMP_SWPP13	52	48	\$ 550	\$ 28,600	1	\$ 14,800	\$ 43,400
IMP_SWPP10	254	48	\$ 550	\$ 139,700	1	\$ 14,800	\$ 154,500
IMP_SWPP1012	209	48	\$ 550	\$ 114,950	1	\$ 14,800	\$ 129,750
IMP_SWPP11	97	48	\$ 550	\$ 53,350	1	\$ 14,800	\$ 68,150
IMP_SWPP1160	287	48	\$ 550	\$ 157,850	1	\$ 14,800	\$ 172,650
IMP_SWPP1635	144	24	\$ 350	\$ 50,400	1	\$ 12,990	\$ 63,390
IMP_SWPP1636	67	24	\$ 350	\$ 23,450	1	\$ 12,990	\$ 36,440
IMP_SWPP1658	274	48	\$ 550	\$ 150,700	1	\$ 14,800	\$ 165,500
IMP_SWPP1753	219	18	\$ 290	\$ 63,510	1	\$ 12,830	\$ 76,340
IMP_SWPP1910	261	18	\$ 290	\$ 75,690	1	\$ 12,830	\$ 88,520
IMP_SWPP1911	287	36	\$ 460	\$ 132,020	1	\$ 13,650	\$ 145,670
IMP_SWPP12	130	48	\$ 550	\$ 71,500	1	\$ 14,800	\$ 86,300
IMP_SWPP858	294	36	\$ 460	\$ 135,240	1	\$ 13,650	\$ 148,890
IMP_SWPP1741	309	36	\$ 460	\$ 142,140	1	\$ 13,650	\$ 155,790
Total	3,047				17		\$ 1,651,220

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration



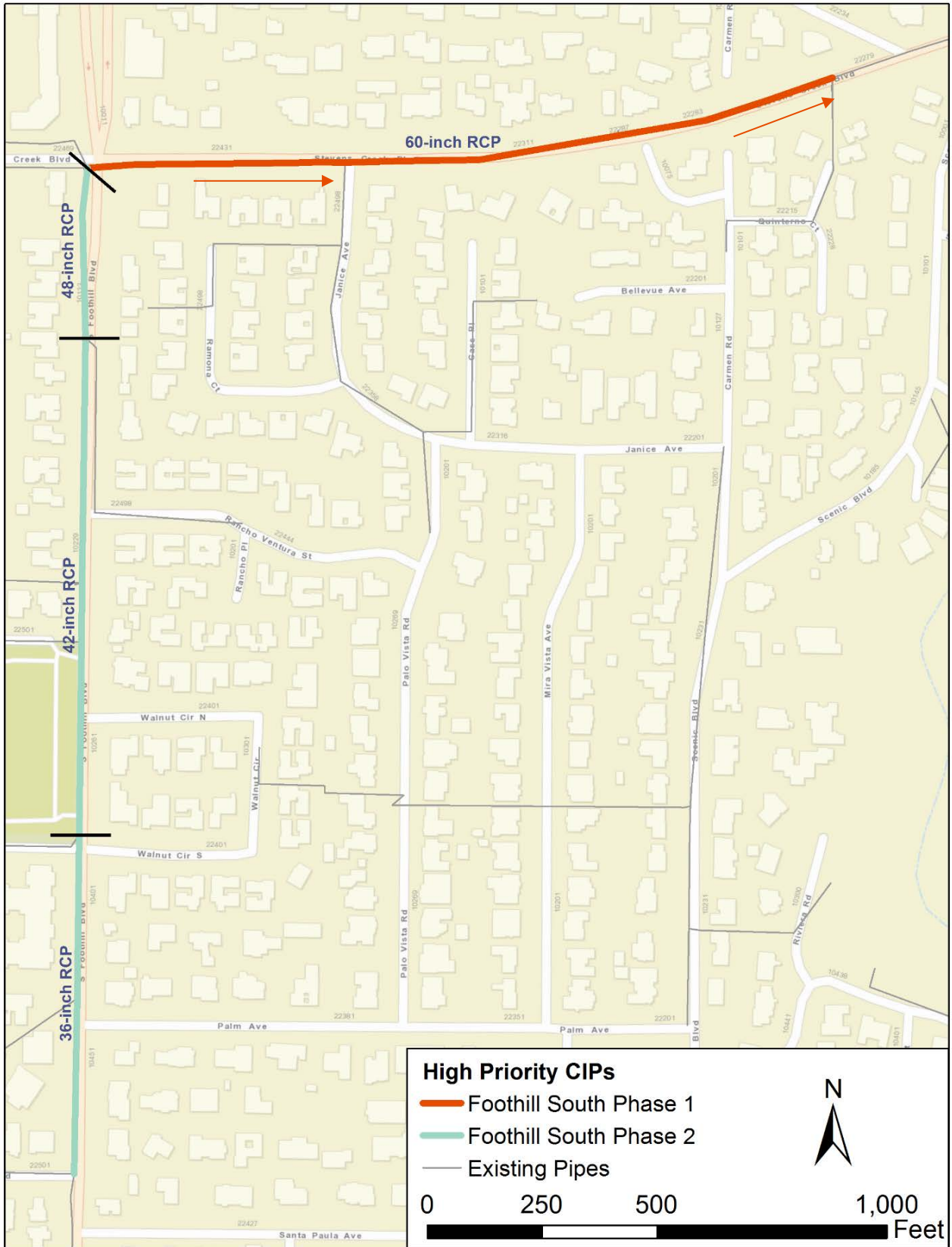


Project Name:	Foothill South – Phase 1
Project ID:	6
Priority:	High
Cost:	\$ 1,290,000

Project Description: There is currently significant flooding along Foothill Boulevard between Stevens Creek Boulevard and McClellan Road. Phase 1 would upsize the existing 36-inch diameter pipe under Stevens Creek to a 60-inch pipe. This improvement lowers the HGL and increases the conveyance capacity to allow for future improvements along Foothill.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP1442	106	60	\$ 680	\$ 72,080	2	\$ 16,000	\$ 104,080
IMP_SWPP1443	341	60	\$ 680	\$ 231,880	1	\$ 16,000	\$ 247,880
IMP_SWPP1444	172	60	\$ 680	\$ 116,960	1	\$ 16,000	\$ 132,960
IMP_SWPP1562	121	60	\$ 680	\$ 82,280	1	\$ 16,000	\$ 98,280
IMP_SWPP1563	192	60	\$ 680	\$ 130,560	1	\$ 16,000	\$ 146,560
IMP_SWPP1986	58	60	\$ 680	\$ 39,440	1	\$ 16,000	\$ 55,440
IMP_SWPP3507	217	60	\$ 680	\$ 147,560	1	\$ 16,000	\$ 163,560
IMP_SWPP3508	91	60	\$ 680	\$ 61,880	1	\$ 16,000	\$ 77,880
IMP_SWPP538	57	60	\$ 680	\$ 38,760	1	\$ 16,000	\$ 54,760
IMP_SWPP795	290	60	\$ 680	\$ 197,200	1	\$ 16,000	\$ 213,200
	1,646				11		\$ 1,294,600

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Foothill South – Phase 2
Project ID:	7
Priority:	High
Cost:	\$ 1,220,000

Project Description: There is currently significant flooding along Foothill Road between Stevens Creek Boulevard and McClellan Road. Phase 2 would upsize the existing 24-inch to 36-inch diameter pipe under Foothill to a 36-inch to 48-inch pipe after Phase 1 is complete. This improvement lowers the HGL along Foothill and works in concert with Phase 1.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP1172	533	42	\$ 510	\$ 271,830	2	\$ 14,000	\$ 299,830
IMP_SWPP1173	128	42	\$ 510	\$ 65,280	1	\$ 14,000	\$ 79,280
IMP_SWPP1174	418	42	\$ 510	\$ 213,180	1	\$ 14,000	\$ 227,180
IMP_SWPP4111	270	48	\$ 550	\$ 148,500	1	\$ 14,800	\$ 163,300
IMP_SWPP4115	99	48	\$ 550	\$ 54,450	1	\$ 14,800	\$ 69,250
IMP_SWPP801	86	36	\$ 460	\$ 39,560	1	\$ 13,650	\$ 53,210
IMP_SWPP802	296	36	\$ 460	\$ 136,160	1	\$ 13,650	\$ 149,810
IMP_SWPP887	356	36	\$ 460	\$ 163,760	1	\$ 13,650	\$ 177,410
	2,186				9		\$ 1,219,270

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration

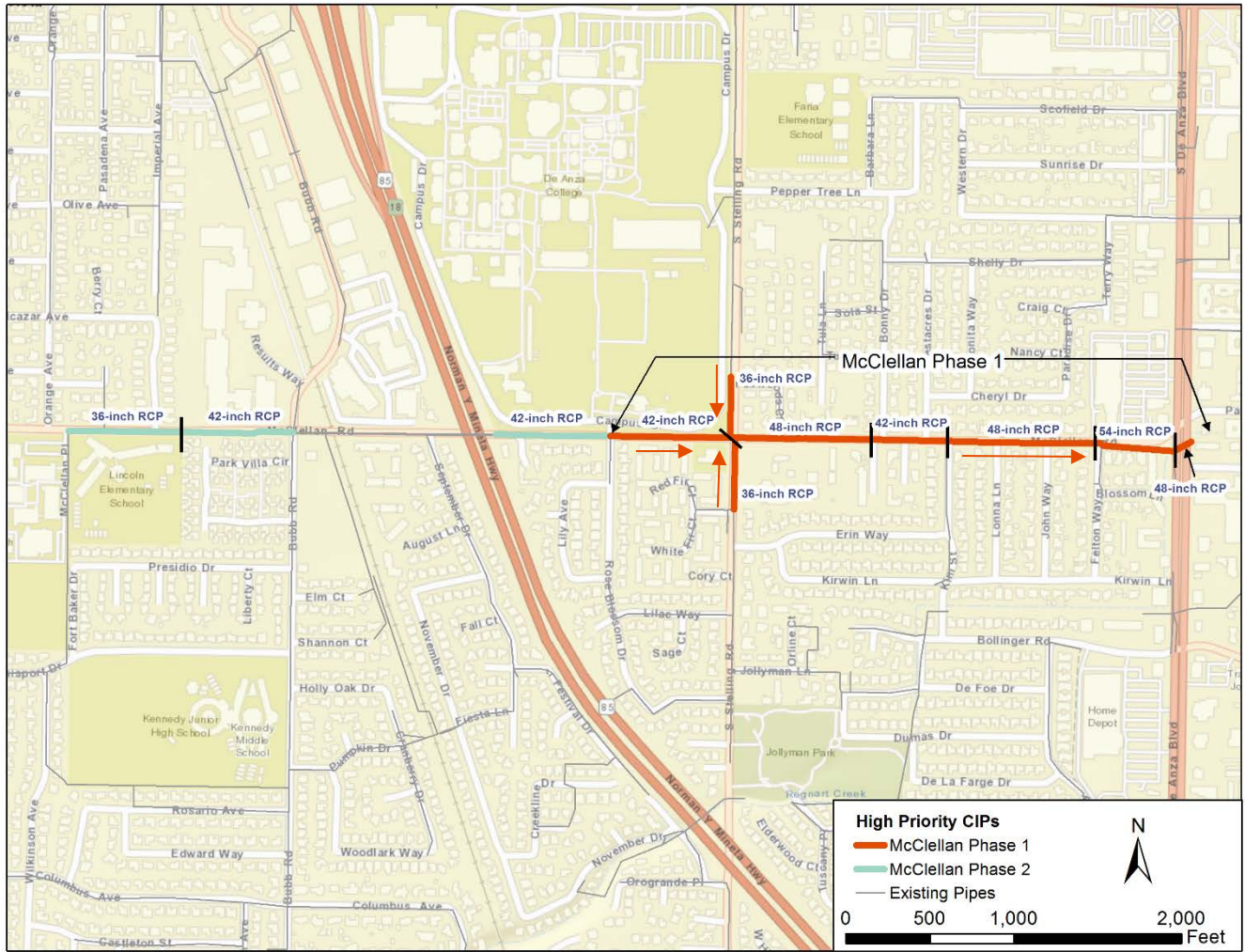


Project Name:	McClellan – Phase 1
Project ID:	8
Priority:	High
Cost:	\$ 2,560,000

Project Description: There is currently significant flooding along Bubb Road and neighboring streets. The Bubb improvement projects would increase the flows to McClellan Road. This improvement increases the conveyance along McClellan Road and works in concert with the Bubb projects.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP1037	255	42	\$ 510	\$ 130,050	2	\$ 14,000	\$ 158,050
IMP_SWPP1042	425	36	\$ 460	\$ 195,500	1	\$ 13,650	\$ 209,150
IMP_SWPP1490	27	48	\$ 550	\$ 14,850	1	\$ 14,800	\$ 29,650
IMP_SWPP1491	252	48	\$ 550	\$ 138,600	1	\$ 14,800	\$ 153,400
IMP_SWPP1492	203	48	\$ 550	\$ 111,650	1	\$ 14,800	\$ 126,450
IMP_SWPP1788	433	42	\$ 510	\$ 220,830	1	\$ 14,000	\$ 234,830
IMP_SWPP1789	301	48	\$ 550	\$ 165,550	1	\$ 14,800	\$ 180,350
IMP_SWPP182	300	48	\$ 550	\$ 165,000	1	\$ 14,800	\$ 179,800
IMP_SWPP183	310	48	\$ 550	\$ 170,500	1	\$ 14,800	\$ 185,300
IMP_SWPP184	13	54	\$ 630	\$ 8,190	1	\$ 15,600	\$ 23,790
IMP_SWPP185	14	54	\$ 630	\$ 8,820	1	\$ 15,600	\$ 24,420
IMP_SWPP186	420	54	\$ 630	\$ 264,600	1	\$ 15,600	\$ 280,200
IMP_SWPP1211	362	36	\$ 460	\$ 166,520	1	\$ 13,650	\$ 180,170
IMP_SWPP1340	27	48	\$ 550	\$ 14,850	1	\$ 14,800	\$ 29,650
IMP_SWPP1341	135	48	\$ 550	\$ 74,250	1	\$ 14,800	\$ 89,050
IMP_SWPP1342	212	48	\$ 550	\$ 116,600	1	\$ 14,800	\$ 131,400
IMP_SWPP4267	326	42	\$ 510	\$ 166,260	1	\$ 14,000	\$ 180,260
IMP_SWPP4635	118	48	\$ 550	\$ 64,900	1	\$ 14,800	\$ 79,700
IMP_SWPP5719	134	42	\$ 510	\$ 68,340	1	\$ 14,000	\$ 82,340
	4,267				20		\$ 2,557,960

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration



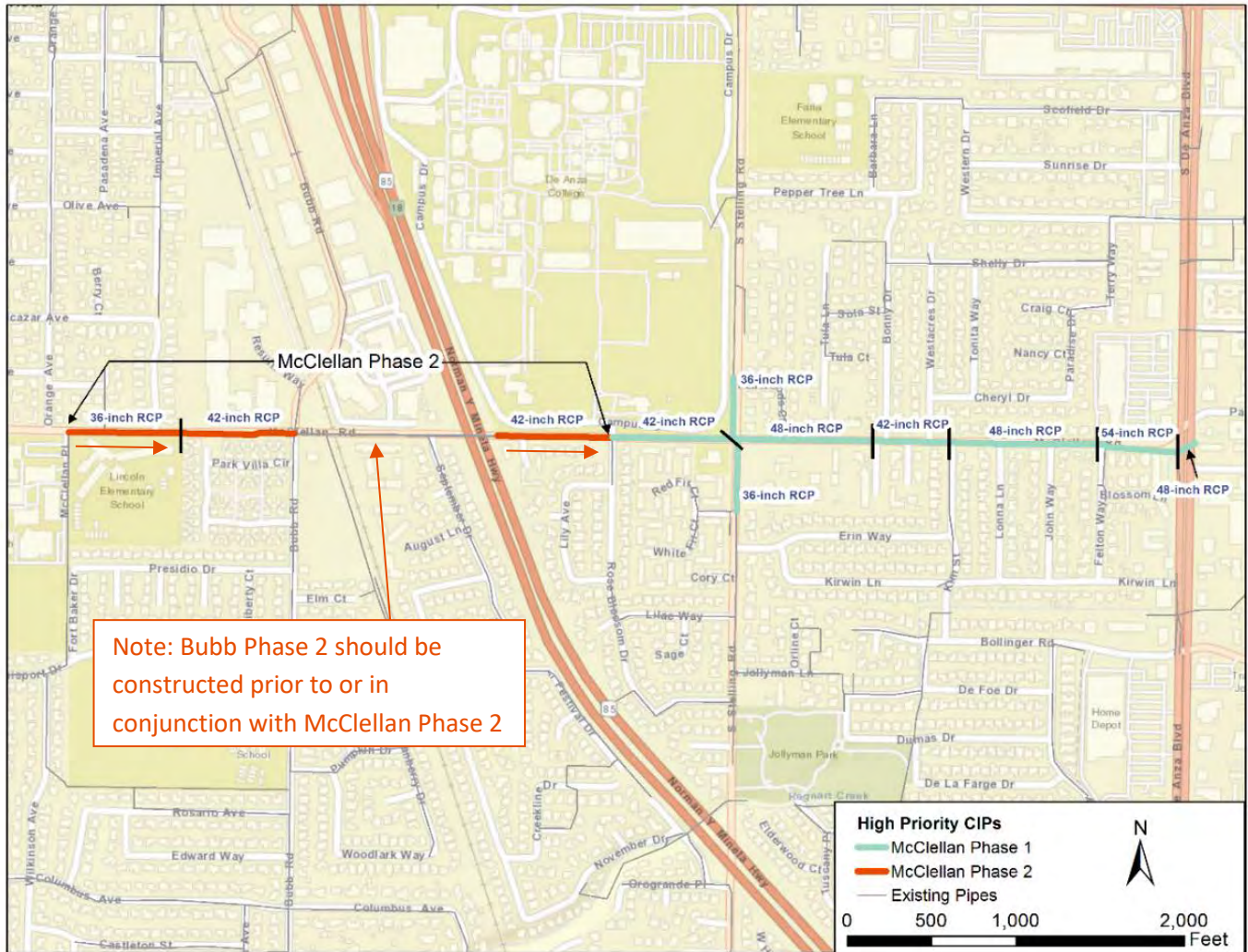


Project Name:	McClellan – Phase 2
Project ID:	9
Priority:	High
Cost:	\$ 1,140,000

Project Description: There is currently significant flooding along McClellan Road, Bubb Road and neighboring streets. The Bubb improvement projects would increase the flows to McClellan Road. This improvement increases the conveyance along McClellan Road and works in concert with the Bubb projects. It should be constructed after Bubb Phase 2 is complete.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP1873	205	42	\$ 510	\$ 104,550	2	\$ 14,000	\$ 132,550
IMP_SWPP1942	171	36	\$ 460	\$ 78,660	1	\$ 13,650	\$ 92,310
IMP_SWPP1943	288	36	\$ 460	\$ 132,480	1	\$ 13,650	\$ 146,130
IMP_SWPP1944	359	42	\$ 510	\$ 183,090	1	\$ 14,000	\$ 197,090
IMP_SWPP1945	31	42	\$ 510	\$ 15,810	1	\$ 14,000	\$ 29,810
IMP_SWPP1989	73	42	\$ 510	\$ 37,230	1	\$ 14,000	\$ 51,230
IMP_SWPP4268	533	42	\$ 510	\$ 271,830	1	\$ 14,000	\$ 285,830
IMP_SWPP4279	148	42	\$ 510	\$ 75,480	1	\$ 14,000	\$ 89,480
IMP_SWPP777	212	36	\$ 460	\$ 97,520	1	\$ 13,650	\$ 111,170
	2,186				10		\$ 1,135,600

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration



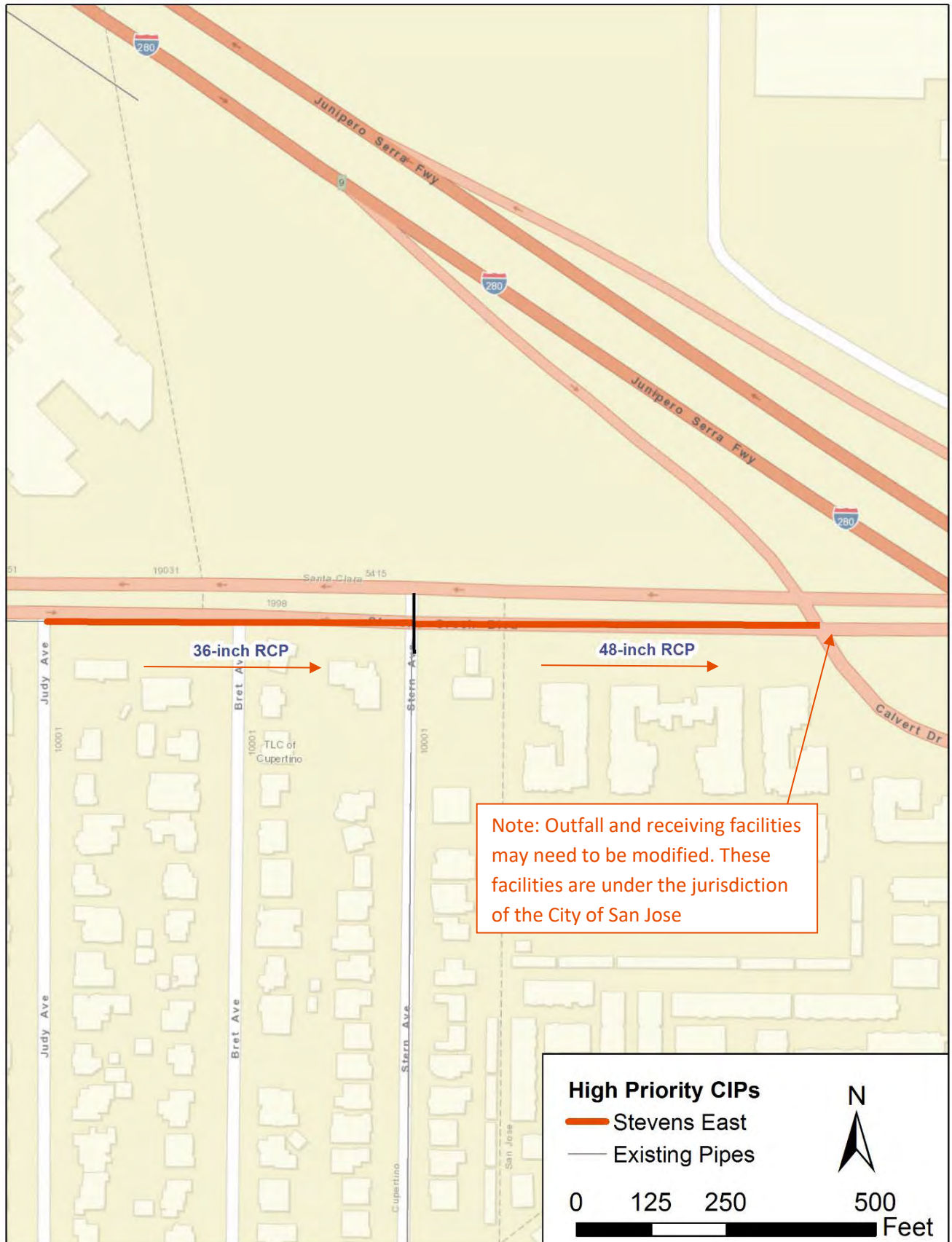


Project Name:	Stevens East
Project ID:	10
Priority:	High
Cost:	\$ 820,000

Project Description: This project increases pipe diameters from 30-inches to 36-inches and 36-inches to 48-inches. This increased pipe diameter alleviates flooding along Stevens Creek Boulevard before flows outfall to a channelized creek. This proposed improvement does not include an increase in the outfall pipe size immediately before the channelized creek.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP874	136	48	\$ 550	\$ 74,800	2	\$ 14,800	\$ 104,400
IMP_SWPP875	243	48	\$ 550	\$ 133,650	1	\$ 14,800	\$ 148,450
IMP_SWPP876	428	48	\$ 550	\$ 235,400	1	\$ 14,800	\$ 250,200
IMP_SWPP877	315	36	\$ 460	\$ 144,900	1	\$ 13,650	\$ 158,550
IMP_SWPP878	307	36	\$ 460	\$ 141,220	1	\$ 13,650	\$ 154,870
	1,429				6		\$ 816,470

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Foothill North – Phase 1
Project ID:	11
Priority:	High
Cost:	\$ 570,000

Project Description: There is currently flooding along Salem Drive and North Foothill Boulevard and the surrounding area. Phase 1 would upsize the downstream piping from 27-inches to 30 inches or 21-inches to 24-inches. This improvement lowers the HGL and increases the conveyance capacity to allow for future improvements along Foothill.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP1461	158	30	\$ 400	\$ 63,200	2	\$ 13,150	\$ 89,500
IMP_SWPP1462	131	30	\$ 400	\$ 52,400	1	\$ 13,150	\$ 65,550
IMP_SWPP1193	76	30	\$ 400	\$ 30,400	1	\$ 13,150	\$ 43,550
IMP_SWPP3015	69	30	\$ 400	\$ 27,600	1	\$ 13,150	\$ 40,750
IMP_SWPP3016	89	30	\$ 400	\$ 35,600	1	\$ 13,150	\$ 48,750
IMP_SWPP3017	333	24	\$ 350	\$ 116,550	1	\$ 12,990	\$ 129,540
IMP_SWPP3128	30	30	\$ 400	\$ 12,000	1	\$ 13,150	\$ 25,150
IMP_SWPP867	278	30	\$ 400	\$ 111,200	1	\$ 13,150	\$ 124,350
	1,164				9		\$ 567,140

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration





Project Name:	Foothill North – Phase 2
Project ID:	12
Priority:	High
Cost:	\$ 520,000

Project Description: There is currently flooding along Salem Drive and North Foothill Boulevard and surrounding area. Phase 2 would upsize the existing piping from 21-inches to 24- or 30-inches. This improvement includes pipe improvements located in an easement on a private apartment complex.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP3526	274	24	\$ 350	\$ 95,900	2	\$ 12,990	\$ 121,880
IMP_SWPP3527	140	30	\$ 400	\$ 56,000	1	\$ 13,150	\$ 69,150
IMP_SWPP3529	116	24	\$ 350	\$ 40,600	1	\$ 12,990	\$ 53,590
IMP_SWPP3542	155	24	\$ 350	\$ 54,250	1	\$ 12,990	\$ 67,240
IMP_SWPP3543	279	24	\$ 350	\$ 97,650	1	\$ 12,990	\$ 110,640
IMP_SWPP4214	228	24	\$ 350	\$ 79,800	1	\$ 12,990	\$ 92,790
	1,192				7		\$ 515,290

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration



Project Name:	Cali
Project ID:	13
Priority:	High
Cost:	\$ 110,000

Project Description: There is currently two catch basins and a manhole connected to pipes with a negative slope in South De Anza Boulevard, near Cali Avenue. This project would replace existing pipes to have a positive slope towards the outfall and eliminate the maintenance issue currently caused by having negatively sloped pipes.

MUID	Length (ft)	New Diameter (inches)	Pipe Unit Cost	Pipe Cost	Manholes	Manhole Cost	Total Cost ¹
IMP_SWPP2497	129	15	\$ 270	\$ 34,830	2	\$ 12,470	\$ 60,310
IMP_SWPP2498	85	15	\$ 270	\$ 22,950	1	\$ 12,470	\$ 35,690
IMP_SWPP4912	22	15	\$ 270	\$ 5,940	1	\$ 12,470	\$ 18,680
	236				4		\$ 114,680

1. 2018 Construction cost only. Construction cost includes mobilization, traffic control, trench and surface restoration

