

**Table 1: Fire Flow Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell	Fire Flow Demand (gpm)	Residual Pressure (psi)
FF-135	0.75-4	8	570	2008	\$89,000	I12	3,500	< 0
FF-112	2	8	680	2008	\$106,000	M13	3,500	< 0
FF-235	2-6	8	5,760	2008	\$896,000	K14	4,000	< 0
FF-236	2-6	8	4,180	2008	\$651,000	J15	3,500	< 0
FF-220	1-4	8	1,310	2008	\$204,000	I13	3,500	< 0
FF-153	2-4	8	380	2008	\$60,000	H12	3,000	< 0
FF-208	2	8	1,480	2008	\$231,000	L11	3,500	< 0
FF-168	2-6	8	3,350	2008	\$522,000	L14	3,500	< 0
FF-192	0	8	2,250	2008	\$350,000	F13	3,500	< 0
FF-114	2-6	12	1,420	2008	\$265,000	N13	3,500	< 0
FF-140	4	8	2,150	2008	\$335,000	L15	3,500	< 0
FF-196	4	8	2,460	2008	\$383,000	L12	3,500	< 0
FF-155	0	8	1,390	2009	\$217,000	L13	3,500	< 0
FF-146	4	8	1,850	2009	\$288,000	K12	3,500	< 0
FF-218	2-6	8	2,830	2009	\$441,000	H13	2,500	< 0
FF-200	4	8	5,790	2009	\$901,000	H13	3,500	< 0
FF-113	4-8	8	1,540	2009	\$240,000	M13	3,500	< 0
FF-51	2	8	120	2009	\$19,000	H14	1,500	< 0
FF-216	4-8	12	720	2009	\$134,000	J12	3,500	< 0
FF-156	2-4	8	4,200	2009	\$654,000	L13	3,500	< 0
FF-160	4	8	820	2009	\$128,000	H15	2,500	< 0
FF-225	4	8	1,420	2009	\$221,000	O13	2,500	< 0
FF-7	4	8	360	2009	\$56,000	G13	3,500	< 0
FF-80	4	8	1,760	2009	\$274,000	H13	3,500	< 0
FF-195	3-4	8	2,740	2009	\$427,000	K14	4,000	< 0
FF-209	4	8	900	2009	\$140,000	L10	3,500	< 0
FF-9	4	8	1,530	2009	\$238,000	I13	3,500	< 0
FF-190	4	8	670	2009	\$105,000	G15	3,500	< 0
FF-111	4	8	310	2009	\$49,000	M12	3,500	< 0
FF-210	4	8	3,050	2009	\$475,000	J14	3,500	< 0
FF-110	3-4	8	2,180	2009	\$340,000	M12	3,500	< 0
FF-50	4	8	750	2009	\$117,000	J13	3,500	< 0
FF-167	3-6	8	1,400	2009	\$218,000	K12	3,500	< 0
FF-181	2-4	8	2,690	2009	\$419,000	I13	3,500	< 0
FF-186	2-4	8	3,150	2010	\$490,000	K10	3,500	< 0
FF-205	2-4	8	910	2010	\$142,000	J13	3,500	< 0
FF-213	4-6	8	3,900	2010	\$607,000	M14	3,500	< 0
FF-219	2-4	8	2,140	2010	\$333,000	H13	3,500	< 0
FF-35	4	8	1,920	2010	\$299,000	I12	3,500	< 0
FF-148	1-4	8	1,920	2010	\$299,000	J12	3,500	< 0
FF-231	4-6	8	2,860	2010	\$445,000	K14	4,000	< 0
FF-164	2	8	1,310	2010	\$204,000	H15	1,500	< 0
FF-83	4	8	1,570	2010	\$245,000	F13	2,500	< 0
FF-125	6-8	8	1,250	2010	\$233,000	G14	3,500	< 0
FF-187	4	8	890	2010	\$139,000	L10	3,500	< 0
FF-145	2-4	8	1,370	2010	\$214,000	G13	3,500	< 0
FF-36	4-6	8	2,090	2010	\$326,000	I13	3,500	< 0
FF-120	2-4	8	5,680	2010	\$884,000	N13	3,500	< 0
FF-214	0	8	10	2010	\$2,000	K13	3,500	< 0
FF-228	4	8	660	2010	\$103,000	H12	1,500	< 0
FF-48	2-8	8	750	2010	\$117,000	J14	3,500	< 0
FF-49	4-6	8	380	2010	\$60,000	J14	3,500	< 0
FF-127	6	12	3,550	2010	\$661,000	F14	3,500	< 0
FF-191	6	8	3,560	2010	\$554,000	F15	3,500	< 0
FF-162	6-8	8	2,390	2010	\$372,000	J15	3,500	< 0
FF-194	6	8	1,370	2010	\$214,000	J15	2,000	< 0
FF-234	4	8	2,030	2010	\$316,000	N14	3,500	< 0
FF-109	4	8	920	2010	\$144,000	L12	3,500	< 0
FF-184	4	8	410	2010	\$64,000	J13	3,500	< 0
FF-177	2-4	8	1,010	2010	\$158,000	G13	2,500	< 0
FF-2	4	8	2,330	2010	\$363,000	H14	3,500	< 0
FF-185	4	8	410	2010	\$64,000	J13	3,500	< 0
FF-119	6	8	4,900	2010	\$763,000	M13	3,500	< 0
FF-211	4-6	8	2,060	2010	\$321,000	G15	3,500	< 0
FF-207	0	8	670	2010	\$105,000	L12	3,500	< 0
FF-193	4	8	1,350	2010	\$210,000	G15	2,500	< 0

**Table 1: Fire Flow Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell	Fire Flow Demand (gpm)	Residual Pressure (psi)
FF-172	6	8	1,360	2010	\$212,000	F12	2,500	13
FF-300	4	8	680	2010	\$106,000	G15	1,500	< 0
FF-229	0	8	70	2010	\$11,000	H13	3,000	< 0
FF-122	4	8	120	2015	\$19,000	N14	3,500	< 0
FF-37	6	8	5,080	2015	\$791,000	O12	2,500	< 0
FF-105	4	8	1,990	2015	\$310,000	L15	3,500	< 0
FF-264	2-8	8	80	2015	\$13,000	O14	3,500	< 0
FF-199	4	8	1,430	2015	\$223,000	I12	1,500	< 0
FF-103	4	8	3,010	2015	\$469,000	N10	2,500	< 0
FF-212	4-6	8	2,000	2015	\$312,000	L14	3,500	< 0
FF-152	4	8	1,470	2015	\$229,000	H12	3,000	< 0
FF-86	6	12	2,770	2015	\$516,000	P13	3,000	< 0
FF-215	4	8	260	2015	\$41,000	J13	3,500	< 0
FF-230	4	8	3,170	2015	\$494,000	G12	2,500	< 0
FF-96	4	8	3,450	2015	\$537,000	J12	2,000	< 0
FF-158	0	8	350	2015	\$55,000	N17	3,500	< 0
FF-75	4	8	260	2015	\$41,000	I10	3,000	< 0
FF-121	6	12	6,330	2015	\$1,178,000	M14	3,500	< 0
FF-147	4	8	1,410	2015	\$220,000	K12	3,500	< 0
FF-4	6	12	3,480	2015	\$648,000	J10	3,500	< 0
FF-57	0	8	10	2015	\$2,000	R16	3,000	< 0
FF-166	4	8	820	2015	\$128,000	L12	3,500	< 0
FF-90	4	8	700	2015	\$109,000	I14	3,500	< 0
FF-10	4	8	840	2015	\$131,000	F13	1,500	< 0
FF-84	4	8	670	2015	\$105,000	F14	1,500	< 0
FF-252	8	20	5,480	2015	\$1,530,000	E15	3,500	< 0
FF-254	8	12	5,420	2015	\$1,009,000	E17	3,500	< 0
FF-63	6	8	1,550	2015	\$242,000	Q13	3,500	< 0
FF-201	4	8	630	2015	\$98,000	H13	3,500	< 0
FF-221	0	8	530	2015	\$83,000	I17	4,000	< 0
FF-176	6-8	12	7,010	2015	\$1,305,000	G11	3,500	< 0
FF-118	4	8	1,940	2015	\$302,000	M13	1,500	< 0
FF-98	6	12	5,370	2015	\$1,000,000	H16	3,500	< 0
FF-180	6	8	5,860	2015	\$912,000	G11	3,000	< 0
FF-133	6	12	2,790	2015	\$520,000	E16	2,500	< 0
FF-64	6	8	2,140	2015	\$333,000	F10	3,500	< 0
FF-1	4-6	8	2,200	2015	\$343,000	H11	3,500	< 0
FF-157	4	8	1,670	2015	\$260,000	L13	3,500	< 0
FF-97	4-8	8	700	2015	\$109,000	J12	3,500	< 0
FF-5	4-8	8	1,380	2015	\$215,000	F14	3,500	< 0
FF-41	6	8	4,820	2015	\$750,000	Q14	2,500	< 0
FF-174	4-8	8	9,200	2015	\$1,432,000	G10	3,500	< 0
FF-101	6	8	1,340	2015	\$209,000	H11	3,500	< 0
FF-226	6	8	910	2015	\$142,000	N13	3,500	< 0
FF-95	6	8	3,530	2015	\$550,000	R13	3,500	< 0
FF-34	6	8	2,380	2015	\$371,000	Q13	3,000	< 0
FF-87	4	8	850	2015	\$133,000	P13	3,500	< 0
FF-134	6-8	8	2,450	2015	\$419,000	F14	3,500	< 0
FF-26	6	8	1,490	2015	\$232,000	M11	3,500	< 0
FF-129	6	12	5,500	2015	\$1,024,000	F15	3,500	< 0
FF-189	6	8	2,490	2015	\$388,000	G14	3,500	< 0
FF-237	4	8	330	2015	\$52,000	G12	2,500	4
FF-128	8	12	2,170	2015	\$404,000	F15	3,500	12
FF-45	6	8	1,380	2015	\$215,000	F12	1,500	13
FF-250	8-16	20	3,930	2015	\$1,097,000	E14	1,500	12
FF-102	4	8	2,390	2020	\$372,000	N10	1,500	< 0
FF-85	8	12	3,360	2020	\$626,000	P17	3,500	< 0
FF-23	6	8	760	2020	\$119,000	I14	3,500	< 0
FF-165	4	8	830	2020	\$130,000	L12	3,500	< 0
FF-154	4	8	1,350	2020	\$210,000	L12	3,500	< 0
FF-159	0	12	730	2020	\$136,000	N17	3,500	< 0
FF-99	6	12	5,480	2020	\$1,020,000	F15	2,500	< 0
FF-217	6	8	1,410	2020	\$220,000	H11	3,000	< 0
FF-204	4	8	1,070	2020	\$167,000	K14	4,000	< 0
FF-107	0	8	1,320	2020	\$206,000	N17	3,500	< 0
FF-150	4-6	8	1,480	2020	\$231,000	I13	3,500	< 0

**Table 1: Fire Flow Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell	Fire Flow Demand (gpm)	Residual Pressure (psi)
FF-81	6	8	4,480	2020	\$697,000	G10	3,000	< 0
FF-106	0	12	630	2020	\$118,000	N16	3,500	< 0
FF-222	0	8	1,080	2020	\$168,000	O18	3,500	0
FF-53	6	8	4,200	2020	\$654,000	Q15	2,500	0
FF-42	6	8	7,280	2020	\$1,133,000	R17	3,500	3
FF-130	6	12	1,380	2020	\$257,000	F16	2,500	6
FF-104	0	8	800	2020	\$125,000	M15	3,500	8
FF-89	6	12	2,680	2020	\$499,000	F15	3,500	12
FF-116	6	8	350	2020	\$55,000	O13	3,500	17
FF-61	6	8	1,090	2020	\$170,000	Q17	3,000	17
FF-66	6	8	2,680	2020	\$417,000	Q13	2,000	< 0
FF-62	6	8	3,080	2020	\$480,000	Q16	2,000	< 0
FF-54	6	8	2,570	2020	\$400,000	Q16	1,500	5
FF-256	8	12	2,540	2020	\$473,000	E15	1,500	12
FF-67	6	8	1,710	2020	\$266,000	Q18	2,500	1
FF-77	6	8	8,770	2020	\$1,365,000	Q19	2,500	15
FF-58	6	8	1,430	2020	\$223,000	Q14	1,500	7
FF-65	6	8	6,390	2020	\$994,000	Q16	1,500	< 0
FF-55	6	8	1,430	2020	\$223,000	Q17	1,500	2
FF-260	6-8	8	1,810	2020	\$282,000	N10	1,500	16
FF-71	6	8	3,270	2020	\$509,000	Q19	2,000	13
FF-233	0	8	860	2020	\$134,000	J17	4,000	< 0
FF-223	6	8	1,630	2020	\$254,000	P14	2,500	18
FF-206	0	8	120	2020	\$19,000	J13	3,000	5
FF-202	4	8	540	2030	\$84,000	H13	1,500	< 0
FF-170	0	8	230	2030	\$36,000	J11	1,500	0
FF-261	0	8	180	2030	\$28,000	N12	3,500	0
<b>Total</b>			<b>338,010</b>		<b>\$55,723,000</b>			

Note: Totals may differ from totals presented in Section 11 and Appendix I due to rounding of pipe length per project.

**Table 2: Age Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell
Age-24	0.75	8	200	2011-2015	\$32,000	H12
Age-25	2	8	900	2011-2015	\$140,000	H12
Age-108	6	8	400	2011-2015	\$63,000	J13
Age-128	6	8	1,400	2011-2015	\$218,000	L14
Age-133	6	8	700	2011-2015	\$109,000	K12
Age-176	6	8	1,300	2011-2015	\$203,000	N12
Age-47	6	8	900	2011-2015	\$140,000	G14
Age-73	6	8	600	2011-2015	\$94,000	H12
Age-111	8	8	1,100	2011-2015	\$172,000	J15
Age-134	8	8	1,100	2011-2015	\$172,000	L13
Age-26	10	12	3,500	2011-2015	\$652,000	H12
Age-27	12	12	1,000	2011-2015	\$187,000	H13
Age-36	12	12	2,900	2011-2015	\$540,000	G13
Age-16	18	18	1,300	2011-2015	\$328,000	E12
Age-72	18	18	1,300	2011-2015	\$328,000	H12
Age-49	24	24	2,900	2011-2015	\$1,035,000	H14
Age-101	6	8	1,400	2011-2015	\$218,000	K12
Age-32	6	8	300	2011-2015	\$47,000	G12
Age-33	6	8	900	2011-2015	\$140,000	G13
Age-34	6	8	2,100	2011-2015	\$327,000	G13
Age-69	6	8	1,400	2011-2015	\$218,000	H12
Age-78	6	8	700	2011-2015	\$109,000	I11
Age-167	8	8	700	2011-2015	\$109,000	N17
Age-1	6	8	700	2016-2020	\$109,000	B14
Age-104	6	8	900	2016-2020	\$140,000	H14
Age-153	6	8	500	2016-2020	\$78,000	I10
Age-35	6	8	1,300	2016-2020	\$203,000	G14
Age-67	6	8	700	2016-2020	\$109,000	H11
Age-106	8	8	1,900	2016-2020	\$296,000	J15
Age-3	12	12	2,400	2016-2020	\$447,000	B14
Age-103	16	16	600	2016-2020	\$135,000	H14
Age-5	16	16	5,500	2016-2020	\$1,233,000	E14
Age-6	18	18	900	2016-2020	\$227,000	B14
Age-100	6	8	700	2021-2030	\$109,000	K13
Age-105	6	8	1,600	2021-2030	\$249,000	H14
Age-117	6	8	3,600	2021-2030	\$560,000	L18
Age-131	6	8	1,400	2021-2030	\$218,000	L13
Age-132	6	8	400	2021-2030	\$63,000	K13
Age-136	6	8	2,600	2021-2030	\$405,000	M12
Age-144	6	8	1,400	2021-2030	\$218,000	M13
Age-145	6	8	700	2021-2030	\$109,000	N13
Age-146	6	8	3,000	2021-2030	\$467,000	N14
Age-151	6	8	1,300	2021-2030	\$203,000	Q15
Age-20	6	8	6,900	2021-2030	\$1,074,000	G12
Age-21	6	8	2,100	2021-2030	\$327,000	G12
Age-22	6	8	3,000	2021-2030	\$467,000	G12
Age-23	6	8	1,200	2021-2030	\$187,000	F12
Age-42	6	8	800	2021-2030	\$125,000	G14
Age-43	6	8	700	2021-2030	\$109,000	F14
Age-44	6	8	2,300	2021-2030	\$358,000	G14
Age-51	6	8	600	2021-2030	\$94,000	G15
Age-53	6	8	2,500	2021-2030	\$389,000	H15
Age-54	6	8	1,700	2021-2030	\$265,000	H16
Age-55	6	8	4,900	2021-2030	\$763,000	H15
Age-56	6	8	2,600	2021-2030	\$405,000	H15
Age-57	6	8	700	2021-2030	\$109,000	G17
Age-65	6	8	300	2021-2030	\$47,000	H10
Age-66	6	8	700	2021-2030	\$109,000	H11
Age-68	6	8	1,400	2021-2030	\$218,000	H11
Age-74	6	8	600	2021-2030	\$94,000	H13
Age-77	6	8	5,800	2021-2030	\$903,000	I12
Age-79	6	8	5,500	2021-2030	\$856,000	I12
Age-82	6	8	8,500	2021-2030	\$1,323,000	I11
Age-83	6	8	7,900	2021-2030	\$1,229,000	I10
Age-84	6	8	7,200	2021-2030	\$1,120,000	J11
Age-91	6	8	300	2021-2030	\$47,000	J13

**Table 2: Age Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell
Age-96	6	8	700	2021-2030	\$109,000	I13
Age-97	6	8	400	2021-2030	\$63,000	J14
Age-112	8	8	5,700	2021-2030	\$887,000	K15
Age-114	8	8	1,600	2021-2030	\$249,000	K17
Age-118	8	8	2,600	2021-2030	\$405,000	L17
Age-122	8	8	3,200	2021-2030	\$498,000	L16
Age-124	8	8	1,300	2021-2030	\$203,000	K14
Age-142	8	8	900	2021-2030	\$140,000	M10
Age-148	8	8	800	2021-2030	\$125,000	P11
Age-152	8	8	500	2021-2030	\$78,000	Q15
Age-75	8	8	2,800	2021-2030	\$436,000	I12
Age-93	8	8	400	2021-2030	\$63,000	J13
Age-95	8	8	2,500	2021-2030	\$389,000	I13
Age-119	10	12	2,400	2021-2030	\$447,000	L18
Age-150	10	12	1,700	2021-2030	\$317,000	Q15
Age-169	10	12	600	2021-2030	\$112,000	P17
Age-7	10	12	500	2021-2030	\$94,000	E13
Age-76	10	12	1,900	2021-2030	\$354,000	H12
Age-115	12	12	800	2021-2030	\$149,000	K17
Age-120	12	12	2,200	2021-2030	\$410,000	L17
Age-155	12	12	1,700	2021-2030	\$317,000	I23
Age-159	12	12	300	2021-2030	\$56,000	I19
Age-161	12	12	600	2021-2030	\$112,000	J20
Age-166	12	12	400	2021-2030	\$75,000	N20
Age-18	12	12	2,500	2021-2030	\$466,000	G11
Age-8	12	12	300	2021-2030	\$56,000	E12
Age-9	14	16	300	2021-2030	\$68,000	E12
Age-10	16	16	300	2021-2030	\$68,000	E12
Age-141	16	16	500	2021-2030	\$113,000	M11
Age-162	16	16	300	2021-2030	\$68,000	K19
Age-11	18	18	500	2021-2030	\$126,000	E12
Age-116	18	18	1,400	2021-2030	\$353,000	J17
Age-125	18	18	1,300	2021-2030	\$328,000	M14
Age-14	18	18	1,200	2021-2030	\$302,000	E12
Age-29	18	18	5,400	2021-2030	\$1,359,000	E10
Age-52	18	18	1,400	2021-2030	\$353,000	H16
Age-58	18	18	2,800	2021-2030	\$705,000	H16
Age-30	19	18	700	2021-2030	\$177,000	E12
Age-13	24	24	1,300	2021-2030	\$464,000	E12
Age-90	16-16.5	16	2,500	2021-2030	\$561,000	I13
Age-80	6-8	8	4,200	2021-2030	\$654,000	I11
Age-89	6-8	8	2,500	2021-2030	\$389,000	I13
<b>Total</b>			<b>195,500</b>		<b>\$34,559,000</b>	

**Table 3: Small Diameter Pipeline Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell
SD-20	2	8	300	2011-2015	\$47,000	G13
SD-35	2	8	600	2011-2015	\$94,000	H13
SD-10	4	8	300	2011-2015	\$47,000	H11
SD-106	4	8	2,100	2011-2015	\$327,000	N12
SD-111	4	8	2,600	2011-2015	\$405,000	N13
SD-16	4	8	300	2011-2015	\$47,000	F13
SD-22	4	8	500	2011-2015	\$78,000	H13
SD-25	4	8	800	2011-2015	\$125,000	F15
SD-28	4	8	300	2011-2015	\$47,000	H15
SD-44	4	8	600	2011-2015	\$94,000	H13
SD-62	4	8	400	2011-2015	\$63,000	J13
SD-65	4	8	800	2011-2015	\$125,000	J13
SD-71	4	8	300	2011-2015	\$47,000	J14
SD-9	4	8	300	2011-2015	\$47,000	H11
SD-96	4	8	300	2011-2015	\$47,000	J15
SD-97	4	8	700	2011-2015	\$109,000	L11
SD-121	-	8	1,400	2011-2015	\$218,000	K14
SD-98	0.75-12	8	300	2011-2015	\$47,000	L11
SD-120	2-4	8	800	2011-2015	\$125,000	H17
SD-36	2-4	8	1,300	2011-2015	\$203,000	F12
SD-82	2-4	8	300	2011-2015	\$47,000	L12
SD-51	1.5	8	500	2011-2015	\$78,000	I14
SD-31	2	8	600	2011-2015	\$94,000	E15
SD-113	4	8	500	2011-2015	\$78,000	O15
SD-17	4	8	300	2011-2015	\$47,000	F14
SD-30	4	8	1,500	2011-2015	\$234,000	G17
SD-37	4	8	300	2011-2015	\$47,000	H12
SD-38	4	8	1,400	2011-2015	\$218,000	I12
SD-57	4	8	600	2011-2015	\$94,000	I12
SD-7	4	8	300	2011-2015	\$47,000	G11
SD-8	1-4	8	800	2011-2015	\$125,000	G11
SD-39	2-4	8	1,300	2011-2015	\$203,000	I12
SD-109	4	8	1,900	2011-2015	\$296,000	M13
SD-42	2	8	1,400	2016-2020	\$218,000	H14
SD-45	2	8	1,400	2016-2020	\$218,000	H13
SD-77	2	8	400	2016-2020	\$63,000	K13
SD-93	2	8	600	2016-2020	\$94,000	L15
SD-18	4	8	400	2016-2020	\$63,000	G14
SD-21	4	8	500	2016-2020	\$78,000	G13
SD-23	4	8	600	2016-2020	\$94,000	G14
SD-24	4	8	700	2016-2020	\$109,000	G14
SD-59	4	8	1,400	2016-2020	\$218,000	J12
SD-75	4	8	700	2016-2020	\$109,000	J13
SD-81	4	8	900	2016-2020	\$140,000	K13
SD-84	4	8	1,000	2016-2020	\$156,000	L13
SD-92	4	8	2,600	2016-2020	\$405,000	L14
SD-94	4	8	500	2016-2020	\$78,000	L15
SD-95	4	8	500	2016-2020	\$78,000	J15
SD-19	6	8	400	2016-2020	\$63,000	G14
SD-72	0.75	8	800	2021-2030	\$125,000	J14
SD-56	1	8	700	2021-2030	\$109,000	I10
SD-26	2	8	600	2021-2030	\$94,000	G15
SD-34	2	8	500	2021-2030	\$78,000	H15
SD-41	2	8	300	2021-2030	\$47,000	H14
SD-46	2	8	1,400	2021-2030	\$218,000	I13
SD-52	2	8	900	2021-2030	\$140,000	I14
SD-54	2	8	400	2021-2030	\$63,000	I13
SD-60	2	8	500	2021-2030	\$78,000	J12
SD-61	2	8	1,700	2021-2030	\$265,000	J12
SD-63	2	8	800	2021-2030	\$125,000	I13
SD-66	2	8	300	2021-2030	\$47,000	J13
SD-67	2	8	1,000	2021-2030	\$156,000	J13
SD-69	2	8	500	2021-2030	\$78,000	J13
SD-76	2	8	400	2021-2030	\$63,000	J13
SD-88	2	8	800	2021-2030	\$125,000	K14
SD-1	4	8	600	2021-2030	\$94,000	K14

**Table 3: Small Diameter Pipeline Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell
SD-100	4	8	700	2021-2030	\$109,000	M10
SD-102	4	8	600	2021-2030	\$94,000	N11
SD-103	4	8	2,700	2021-2030	\$420,000	N10
SD-105	4	8	2,000	2021-2030	\$312,000	M12
SD-107	4	8	1,300	2021-2030	\$203,000	N12
SD-108	4	8	1,300	2021-2030	\$203,000	N12
SD-11	4	8	400	2021-2030	\$63,000	H12
SD-112	4	8	300	2021-2030	\$47,000	N14
SD-12	4	8	1,265	2021-2030	\$197,000	F12
SD-2	4	8	500	2021-2030	\$78,000	K14
SD-29	4	8	700	2021-2030	\$109,000	G16
SD-3	4	8	400	2021-2030	\$63,000	K14
SD-32	4	8	300	2021-2030	\$47,000	H15
SD-33	4	8	800	2021-2030	\$125,000	H15
SD-47	4	8	400	2021-2030	\$63,000	H15
SD-48	4	8	1,100	2021-2030	\$172,000	J20
SD-49	4	8	500	2021-2030	\$78,000	J17
SD-53	4	8	300	2021-2030	\$47,000	I13
SD-55	4	8	1,300	2021-2030	\$203,000	I12
SD-73	4	8	1,100	2021-2030	\$172,000	J14
SD-80	4	8	400	2021-2030	\$63,000	K13
SD-83	4	8	400	2021-2030	\$63,000	L13
SD-85	4	8	1,000	2021-2030	\$156,000	K14
SD-89	4	8	300	2021-2030	\$47,000	L14
SD-91	4	8	600	2021-2030	\$94,000	L14
SD-4	-	8	800	2021-2030	\$125,000	K14
SD-101	2-4	8	2,800	2021-2030	\$436,000	M10
SD-40	2-4	8	900	2021-2030	\$140,000	H13
SD-70	2-4	8	300	2021-2030	\$47,000	J14
SD-86	2-4	8	300	2021-2030	\$47,000	K14
<b>Total</b>			<b>80,470</b>		<b>\$12,062,000</b>	

Note: Totals may differ from totals presented in Section 11 and Appendix I due to rounding of pipe length per project.

**Table 4: Pressure Pipeline Improvements**

Project ID	Original Diameter	Revised Diameter	Total Length	CIP Phase	Capital Cost (\$)	Water Atlas Grid Cell
PHD-1	4	8	1,400	2006-2010	\$219,000	H-12
PHD-2	6	12	4,500	2006-2010	\$1,193,000	H-12
PHD-3	n/a	24	8,300	2006-2010	\$2,964,000	F-12
PHD-4	n/a	20	2,600	2006-2010	\$727,000	E-14
PHD-5	n/a	12	300	2006-2010	\$58,000	F-14
PHD-6	n/a	20	3,200	2006-2010	\$895,000	G-14