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Sewer Collection System Asset Evaluation and Rehabilitation Plan

Final Report – Detailed Information

Volume 2
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Prepared for

City of Simi Valley
Department of Public Works/Sanitation
500 West Los Angeles Avenue
Simi Valley, CA 93065

K/J Project No. 0689059

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Section 1: Introduction

1.1 Volume 1 Material

The Volume 1 of this report provides the background material and detailed information related to the objectives, approach, and results of the evaluation of 48.7 miles of the City of Simi Valley's (City's) sanitary sewer system. After viewing the internal inspection video for the study area and coding according the standardized Pipeline Assessment Certification Program (PACP), a prioritization approach was created by accounting for both the observations made from the internal inspections and other criticality factors to represent the risk and potential of failure. This prioritization is displayed in Figures 5-1 to 5-4 of Volume 1.

Volume 1 also contains figures which present the pipe segments in need of specific repairs or routine cleaning. Identifying these reaches was based entirely on the observations made from the internal inspections.

In addition to these helpful figures, the Volume 1 material also includes details of the cost estimation and the summary of the costs. Final recommendations and suggestions for future work are also found in Volume 1.

1.2 Purpose of Volume 2

While the content of the first volume of this report is intended to be general, this volume contains detailed information primarily useful to the Public Works Department of the City. The data provided herein will be the key to moving forward with the recommendations presented in Volume 1.

Specifically, this part of the report presents all data tables that formed the basis for the figures presented in Volume 1. The data tables include key information to begin the design of a sewer rehabilitation project. Maintenance lists are also presented in this Volume.

Section 2: Rehabilitation

2.1 Introduction

The pipe sections identified in the following five tables are presented graphically in Figures 5-1 to 5-4 of Volume 1. The tables report the pertinent information about the pipe: its location, the material, age, size, and length, age. The tables also include information that will be helpful from a design perspective: if sag was noted, if a preliner is necessary because infiltration was observed, if there are obstructions that must be corrected, and if the pipe segment is located in a high groundwater area and might require a thicker liner. Finally, each table itemizes the costs of rehabilitation for each pipe section.

The *Prioritization Number* column corresponds to the rehabilitation priority out of the 905 total segments of this evaluation. This ranking was determined from the total score of the pipe (Modified PACP score plus the criticality factors). These prioritization numbers also correspond directly to the segment labels in Figures 5-1 to 5-4 of Volume 1.

2.2 Immediate Rehabilitation

Table 2-1 presents the 79 pipe segments identified for immediate rehabilitation. The total cost for rehabilitation, reported as current construction costs, is $14,400,000.

2.3 4 to 6 Years Rehabilitation

Table 2-2 presents the 63 pipe segments identified for rehabilitation in the next 3 to 5 years. The total cost for rehabilitation, reported as current construction costs, is $15,500,000.

2.4 7 to 10 Years Rehabilitation

Table 2-3 presents the 144 pipe segments identified for rehabilitation in the next 5 to 10 years. The total cost for rehabilitation, reported as current construction costs, is $22,400,000.

2.5 11 to 20 Years Rehabilitation

Table 2-4 presents the 321 pipe segments identified for rehabilitation in the next 10 to 20 years. The total cost for rehabilitation, reported as current construction costs, is $38,200,000.

2.6 Greater than 20 Years Rehabilitation

Table 2-5 presents the data associated with the 295 pipe segments identified as not needing rehabilitation in the near future. These pipe segments had either very minor structural defects or no observable structural defects. Given that there can be many changes in rehabilitation methodologies over the next 20+ years, reliable rehabilitation cost estimates can not be prepared at this time. As such, these pipeline segments will need additional internal inspection to assess their condition as part of the City's long-term collection system asset management program.

Section 3: Maintenance

3.1 Introduction

Pipe maintenance is just as important as pipeline rehabilitation or replacement to prevent sanitary sewer system overflows (SSOs), although the costs are not as significant. While reviewing the internal inspection footage, many instances of needed maintenance were observed. This needed maintenance could take the form of either increased cleaning or spot repair. The data presented in the following tables correspond to Figures 5-5 and 5-6 presented in Volume 1.

3.2 Regular Cleaning

Table 3-1 identifies the 98 pipe segments for which frequent regular pipe cleaning may be necessary. These segments were identified based on the presence of sags (an increase, followed by a decrease in the water level of at least 10 percent) and deposits. The pipe sections are prioritized according to the severity of the operations and maintenance (O&M) defect and then by the criticality factor. Also included in Table 3-1 is the description of the most severe observation of deposits for each pipe section.

The *Line Item* column corresponds to the pipeline cleaning priority of the 98 pipe segments. These *Line Item*-values correspond directly to the segment labels in Figures 5-5 and 5-6 of Volume 1. The table also refers to the Prioritization Number as reported in Tables 2-1 to 2-5.

3.3 Spot Corrections

Table 3-2 presents the 114 pipe segments which are at risk of blockages due to specific observed O&M defects. These defects include obstacles, infiltration, and roots. The pipe segments listed in Table 3-2 are recommended for repair or maintenance prior to the determined rehabilitation timeframes. Pipe sections in the immediate rehabilitation time frame were omitted from this list because the repair or maintenance will occur during rehabilitation.

Similar to Table 3-1, Table 3-2 prioritizes the pipe segments according to the O&M defect score and then the criticality factor. The table also presents all observations requiring spot repair for each pipe section, and thus, there may be more than one repair necessary for each segment. Again, the *Line Item* column corresponds to the correction priority and the segment labels in Figures 5-5 and 5-6 of Volume 1.

Tables

Table 2-1: Immediate Rehabilitation - Estimate of Probable Cost

		Pipe Data											Costs and Cost Modifiers																						
																Traffic Control		Groundwater		Laterals					Spot Repairs		Infiltration		Risk Assessment						
City Priority Group	Prioritization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Sag Length	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	Cost SAG	No. obstructions	Costs ($)[c]	Infiltration?	Costs ($)[c]	Risk Level (1 = low, 5= high)	% Risk	Cost ($)	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)	PROJECT SUBTOTALS
1	1	E LOS ANGELES AVE	M17-109	M17-108	24	ACP	433.5	35	Y		540*	870	$192	$83,232	$49,939	M	$12,485		$0		$0		$0	$0	1	$8,000		$0	5	30%	$46,097	$199,753	$39,951	$39,951	$279,654	
1	10	UNK	M16-115	M16-119	18	ACP	260.0	43	Y		400	795	$144	$37,440	$14,976	T	$1,872		$0		$0		$0	$0		$0		$0	4	25%	$13,572	$67,860	$13,572	$13,572	$95,004	
1	13	UNK	M16-119	M16-118	18	ACP	362.6	43	Y		340	770	$144	$52,214	$31,329	M	$7,832		$0	2	$15,000		$0	$0		$0	Y	$3,626	5	30%	$33,000	$143,002	$28,600	$28,600	$200,202	
1	19	E LOS ANGELES AVE	M16-105	M16-103	24	ACP	484.5	35	Y		350	750	$192	$93,024	$55,814	M	$13,954		$0		$0		$0	$0		$0		$0	5	30%	$48,838	$211,630	$42,326	$42,326	$296,281	
1	21	E LOS ANGELES AVE	M16-118	M16-117	18	ACP	400.0	43	Y		320	750	$144	$57,600	$34,560	M	$8,640	Y	$2,880	1	$7,500		$0	$0		$0		$0	4	25%	$27,795	$138,975	$27,795	$27,795	$194,565	
1	22	E LOS ANGELES AVE	M16-117	M16-116	18	ACP	350.0	43	Y		320	750	$144	$50,400	$30,240	M	$7,560		$0	2	$15,000		$0	$0		$0		$0	4	25%	$25,800	$129,000	$25,800	$25,800	$180,600	$1,246,307 1
2	7	5TH ST	M8-169	M8-159	24	ACP	376.0	44	Y		440	820	$192	$72,192	$28,877	T	$3,610	Y	$7,219		$0		$0	$0		$0		$0	3	18%	$19,582	$131,480	$26,296	$26,296	$184,072	
2	11	E LOS ANGELES AVE	M13-110	M12-113	36	ACP	508.0	34	Y		340	785	$360	$182,880	$146,304	M	$27,432		$0	1	$7,500		$0	$0		$0		$0	5	18%	$63,720	$427,836	$85,567	$85,567	$598,971	
2	4	TAPO CANYON RD	P15-100	P15-105	12	ACP	415.0	35	Y		520	850	$65	$26,975	$2,698	M	$4,046		$0		$0		$0	$0		$0		$0	4	37%	$12,476	$46,195	$9,239	$9,239	$64,673	
2	2	E LOS ANGELES AVE	M15-103	M15-107	30	ACP	491.0	35	Y		520	870	$240	$117,840	$82,488	M	$17,676		$0		$0		$0	$0		$0		$0	5	20%	$43,601	$261,605	$52,321	$52,321	$366,247	
2	39	FIRST ST	M8-103	N8-150	39	ACP	309.5	35	Y		340	715	$390	$120,705	$96,564	M	$18,106	Y	$12,071		$0		$0	$0		$0	Y	$3,095	5	18%	$43,845	$294,385	$58,877	$58,877	$412,139	
2	67	UNK	M14-130	M14-129	20	ACP	269.2	43	N		300	650	$160	$43,072	$25,843	M	$6,461		$0	3	$22,500		$0	$0		$0		$0	3	18%	$17,128	$115,004	$23,001	$23,001	$161,006	
2	77	CADMAN ST	M14-113	M14-114	12	VCP	176.0	36	Y		520	675	$65	$11,440	$572	T	$572		$0		$0		$0	$0		$0		$0	2	10%	$1,258	$13,842	$2,768	$2,768	$19,379	$1,806,486 2
3	5	UNK	BNODE	O6-124	33	ACP	150.0	44	N		500	840	$264	$39,600	$19,800	T	$1,980		$0		$0		$0	$0		$0		$0	3	15%	$9,207	$70,587	$14,117	$14,117	$98,822	
3	35	UNK	N5-100	O6-135	10	ACP*	276.0	43	Y		340	720	$60	$16,560	$828	T	$828		$0		$0		$0	$0		$0		$0	2	10%	$1,822	$20,038	$4,008	$4,008	$28,053	
3	37	UNK	N5-130	N5-121	27	ACP	402.7	44	Y		320	720	$216	$86,983	$34,793	T	$4,349	Y	$8,698		$0		$0	$0		$0		$0	2	10%	$13,482	$148,308	$29,661	$29,661	$207,629	
3	43	UNK	O6-124	O6-121	33	ACP	69.5	44	N		340	705	$264	$18,348	$9,174	T	$917		$0		$0		$0	$0		$0		$0	3	15%	$4,266	$32,705	$6,541	$6,541	$45,787	
3	50	STRATHEARN PL	N5-134	N5-130	27	ACP	20.0	44	Y		320	695	$216	$4,320	$1,728	T	$216	Y	$432		$0		$0	$0		$0		$0	1	0%	$0	$6,696	$1,339	$1,339	$9,374	
3	51	STRATHEARN PL	N5-103	N5-103A	27	ACP	155.0	44	Y		320	695	$216	$33,480	$13,392	T	$1,674	Y	$3,348		$0		$0	$0		$0		$0	1	0%	$0	$51,894	$10,379	$10,379	$72,652	
3	57	STRATHEARN	O6-136	O6-132	27	ACP	397.0	44	N		300	690	$216	$85,752	$34,301	T	$4,288		$0		$0		$0	$0		$0		$0	2	10%	$12,434	$136,774	$27,355	$27,355	$191,484	
3	59	STRATHEARN PL	N5-101	N5-101A	27	ACP	273.0	44	N		320	685	$216	$58,968	$41,278	M	$8,845		$0		$0		$0	$0		$0		$0	1	0%	$0	$109,091	$21,818	$21,818	$152,727	$806,528 3
4	8	ROYAL AVE	K12-115	K12-114	20	ACP	317.9	43	Y		340*	810	$160	$50,864	$30,518	M	$7,630		$0		$0		$0	$0		$0		$0	4	25%	$22,253	$111,265	$22,263	$22,253	$155,771	
4	14	ROYAL AVE	K11-105	K10-108	20	ACP	396.5	43	Y		340	770	$160	$63,440	$38,064	M	$9,516		$0	4	$30,000		$0	$0		$0	Y	$3,965	1	0%	$0	$144,985	$28,997	$28,997	$202,979	
4	15	ERRINGER RD	K10-104	L10-149	20	ACP	343.0	45	Y		340	770	$160	$54,880	$32,928	M	$8,232	Y	$2,744		$0		$0	$0		$0		$0	4	25%	$24,696	$123,480	$24,696	$24,696	$172,872	
4	17	ARCANE ST	K10-105	K10-104	20	ACP	212.0	43	N		340	760	$160	$33,920	$20,352	M	$5,088	Y	$1,696	1	$7,500		$0	$0		$0		$0	4	25%	$17,139	$85,695	$17,139	$17,139	$119,973	
4	24	ROYAL AVE	K11-107	K11-106	20	ACP	136.6	43	Y		320	750	$160	$21,856	$13,114	M	$3,278		$0	2	$15,000	2	$800	$0		$0		$0	3	18%	$9,458	$63,506	$12,701	$12,701	$88,909	
4	34	ROYAL AVE	K11-113	K11-112	20	ACP	396.0	43	Y		300	730	$160	$63,360	$38,016	M	$9,504		$0		$0		$0	$0		$0		$0	3	18%	$19,404	$130,284	$26,057	$26,057	$182,398	
4	54	ROYAL AVE	K10-108	K10-107	20	ACP	333.9	43	N		310	690	$160	$53,424	$32,054	M	$8,014		$0	5	$37,500		$0	$0		$0		$0	3	18%	$22,924	$153,916	$30,783	$30,783	$215,482	
4	55	ARCANE ST	K10-107	K10-105	20	ACP	180.0	43	N		310	690	$160	$28,800	$17,280	M	$4,320		$0	7	$52,500		$0	$0		$0		$0	3	18%	$18,008	$120,908	$24,182	$24,182	$169,271	
4	70	ROYAL AVE	K11-111	K11-110	20	ACP	350.9	43	Y		300	680	$160	$56,144	$22,458	T	$2,807		$0	8	$60,000		$0	$0		$0		$0	2	10%	$14,141	$155,550	$31,110	$31,110	$217,770	
4	134	ROYAL AVE	K11-112	K11-111	20	ACP	41.1	36	N		300	605	$160	$83,232	$49,939	M	$12,485		$0		$0		$0	$0		$0		$0	2	10%	$14,566	$160,222	$32,044	$32,044	$224,310	
4	71	ROYAL AVE	K11-110	K11-109	20	ACP	246.0	43	Y		300	680	$160	$39,360	$15,744	T	$1,968		$0		$0		$0	$0		$0		$0	2	10%	$5,707	$62,779	$12,556	$12,556	$87,891	
4	72	ROYAL AVE	K11-109	K11-108	20	ACP	246.0	43	Y		300	680	$160	$39,360	$15,744	T	$1,968		$0		$0		$0	$0		$0		$0	1	0%	$0	$57,072	$11,414	$11,414	$79,901	
4	73	ROYAL AVE	K11-108	K11-107	20	ACP	385.4	43	N		300	680	$160	$61,664	$36,998	M	$9,250		$0		$0		$0	$0		$0		$0	2	10%	$10,791	$118,703	$23,741	$23,741	$166,184	
4	74	ROYAL AVE	K11-106	K11-105	20	ACP	269.6	43	N		300	680	$160	$43,136	$25,882	M	$6,470		$0		$0		$0	$0		$0		$0	3	18%	$13,210	$88,698	$17,740	$17,740	$124,178	
4	75	ERRINGER RD	L10-149	L10-141	20	ACP	323.6	45	N		300	680	$160	$51,776	$31,066	M	$7,766		$0		$0		$0	$0		$0		$0	3	18%	$15,856	$106,464	$21,293	$21,293	$149,050	$2,356,938 4
5	3	E EASY ST	N7-122	N7-113	39	ACP	358.5	35	N		540	865	$390	$139,815	$111,852	M	$20,972	Y	$13,982	3	$22,500		$0	$0		$0	Y	$3,585	4	15%	$46,906	$359,612	$71,922	$71,922	$503,456	
5	12	UNK	N8-147	N8-146	10	RCP	232.5	41	N		550	770	$60	$13,950	$698	T	$698	Y	$0		$0		$0	$0		$0		$0	4	37%	$5,678	$21,023	$4,205	$4,205	$29,432	
5	27	E EASY ST PARKING LOT	N8-144	N7-134	10	RCP	424.7	43	N		520	740	$60	$25,482	$1,274	T	$1,274	Y	$0	2	$15,000	1	$400	$0		$0		$0	4	37%	$16,069	$59,499	$11,900	$11,900	$83,299	
5	28	E. EAST ST PARKING LOT	N7-128	N7-119	12	RCP	396.0	43	N		520	740	$65	$25,740	$1,287	T	$1,287	Y	$0		$0		$0	$0		$0		$0	4	37%	$10,476	$38,790	$7,758	$7,758	$54,306	
5	58	E EASY ST	N8-139	N8-129	36	ACP	83.7	35	N		320	685	$360	$30,132	$15,066	T	$1,507	Y	$3,013	1	$7,500		$0	$0		$0		$0	5	18%	$10,013	$67,231	$13,446	$13,446	$94,123	
5	6	HILLDALE AVE	M12-102	M12-101	10	ACP	263.6	42	Y	60	500	830	$60	$15,816	$791	T	$791		$0	4	$30,000		$0	$60,000		$0		$0	2	10%	$4,740	$112,137	$22,427	$22,427	$156,992	$921,609 5
6	16	ROYAL AVE	L13-137	L13-138	20	ACP	175.7	43	Y		300	770	$160	$28,112	$16,867	M	$4,217		$0		$0		$0	$0		$0		$0	5	30%	$14,759	$63,955	$12,791	$12,791	$89,537	
6	31	ROYAL AVE	L14-122	L13-127	20	ACP	207.7	43	Y		300	730	$160	$33,232	$19,939	M	$4,985		$0	2	$15,000		$0	$0		$0		$0	2	10%	$7,316	$80,472	$16,094	$16,094	$112,660	
6	32	ROYAL AVE	L13-128	L13-129	20	ACP	105.5	43	Y		300	730	$160	$16,880	$10,128	M	$2,532		$0	3	$22,500		$0	$0		$0		$0	4	25%	$13,010	$65,050	$13,010	$13,010	$91,070	
6	68	ROYAL AVE	L13-134	L13-137	20	ACP	329.1	43	N		300	680	$160	$52,656	$31,594	M	$7,898		$0	4	$30,000		$0	$0		$0		$0	5	30%	$36,644	$159,792	$31,758	$31,758	$222,309	
6	69	ROYAL AVE	L13-127	L13-128	20	ACP	216.5	43	Y		300	680	$160	$34,640	$13,856	T	$1,732		$0	7	$52,500		$0	$0		$0		$0	4	25%	$25,682	$128,410	$25,682	$25,682	$179,774	
6	78	ROYAL AVE	L14-121	L14-122	20	ACP	285.2	31	Y		320	675	$160	$45,632	$18,253	T	$2,282		$0	5	$37,500		$0	$0		$0		$0	2	10%	$10,397	$114,033	$22,807	$22,807	$159,646	
6	23	ROYAL AVE	K12-104	K12-106	20	ACP	201.4	43	Y		320	750	$160	$32,224	$19,334	M	$4,834		$0	2	$15,000	1	$400	$0		$0		$0	2	10%	$7,179	$78,971	$15,794	$15,794	$110,560	
6	33	ROYAL AVE	L12-150	L12-160	20	ACP	441.1	43	Y		300	730	$160	$70,576	$42,346	M	$10,586		$0	3	$22,500		$0	$0		$0		$0	3	18%	$25,551	$171,559	$34,312	$34,312	$240,183	
6	46	ROYAL AVE	L12-160	K12-104	20	ACP	394.4	43	N		320	700	$160	$63,104	$37,862	M	$9,466		$0	4	$30,000		$0	$0		$0		$0	2	10%	$14,043	$154,475	$30,895	$30,895	$216,265	$1,422,005 6
7	18	ERRINGER RD	M10-110	M10-115	33	ACP	280.0	35	N		430	765	$264	$73,920	$59,136	M	$11,088		$0	1	$7,500		$0	$0		$0		$0	5	20%	$30,329	$181,973	$36,395	$36,395	$254,762	
7	26	E LOS ANGELES AVE	M11-106	M11-105	33	ACP	518.4	34	N		420	745	$264	$136,858	$109,486	M	$20,529		$0	3	$22,500		$0	$0		$0		$0	4	18%	$50,640	$340,012	$68,002	$68,002	$476,017	
7	38	PATRICIA AVE	M10-120	M10-119	33	ACP	496.1	35	N		440	715	$264	$130,970	$65,485	T	$6,549		$0	7	$52,500		$0	$0		$0	Y	$4,951	3	15%	$39,070	$299,535	$59,907	$59,907	$419,349	
7	49	PATRICIA AVE	M10-123	M10-122	33	ACP	433.6	35	N		420	695	$264	$114,470	$57,235	T	$5,724		$0	7	$52,500		$0	$0		$0		$0	3	15%	$34,489	$264,418	$52,884	$52,884	$370,186	$1,520,314 7
8	9	WILLIAMS WY	M19-183	M19-181	12	ACP	363.9	42	Y	36	420	800	$65	$23,976	$1,199	T	$1,199	Y	$0		$0		$0	$38,000		$0		$0	2	10%	$2,638	$67,014	$13,403	$13,403	$93,820	
8	20	KITSY LN	M19-177	M19-177A	10	ACP	316.4	42	Y	127	330	750	$60	$18,984	$949	T	$949		$0		$0		$0	$127,000		$0		$0	3	25%	$5,221	$153,103	$30,621	$30,621	$214,344	
8	60	GUNNER LN (PVT)	M19-192	M19-191	12	ACP	396.5	42	Y		240	685	$65	$25,773	$2,577	M	$3,866	Y	$0		$0		$0	$0		$0	Y	$0	3	25%	$8,054	$40,270	$8,054	$8,054	$56,377	
8	25	MOHAVE DR	P17-113	P17-112	12	ACP	346.0	27	Y		500	745	$65	$22,490	$1,125	T	$1,125		$0	7	$52,500		$0	$0		$0		$0	2	10%	$7,724	$84,963	$16,993	$16,993	$118,948	
8	42	ALSCOT AVE	BNODE	M20-154	8	CIP	24.0	26	Y		320	710	$50	$1,200	$120	M	$180	Y	$0		$0		$0	$0		$0		$0	1	0%	$0	$1,500	$300	$300	$2,100	
8	52	LOS ANGELES AVE	M20-121	M19-131	14	ACP	374.0	33	Y		320	690	$112	$41,888	$12,566	M	$6,283	Y	$2,094		$0		$0	$0		$0		$0	5	50%	$31,416	$94,248	$18,850	$18,850	$131,947	
8	56	BEAUMONT ST	P17-111	P16-141	10	ACP	309.8	44	Y	45	310	690	$60	$18,588	$929	T	$929		$0		$0		$0	$45,000		$0		$0	4	37%	$7,566	$73,012	$14,602	$14,602	$102,217	$719,763 8
9	36	UNK	O6-113	O6-108	33	ACP	446.0	44	Y		320	720	$264	$117,744	$58,872	T	$5,887		$0	1	$7,500	1	$400	$0		$0		$0	3	15%	$28,560	$218,964	$43,793	$43,793	$306,549	
9	29	UNK	P5-101	P5-103	33	ACP	543.4	44	Y		340	740	$264	$143,458	$71,729	T	$7,173		$0	2	$15,000		$0	$0		$0		$0	3	15%	$35,604	$272,963	$54,593	$54,593	$382,148	
9	47	UNK	P6-110	P6-102	33	ACP	466.3	44	Y		300	700	$264	$123,103	$61,552	T	$6,155		$0	1	$7,500		$0	$0		$0		$0	3	15%	$29,746	$228,056	$45,611	$45,611	$319,279	
9	48	UNK	P6-102	P5-101	33	ACP	484.7	44	Y		300	700	$264	$127,961	$63,980	T	$6,398		$0		$0		$0	$0		$0		$0	3	15%	$29,751	$228,090	$45,618	$45,618	$319,326	$1,327,303 9
10	30	MARLIN DR	M16-125	M16-124	18	ACP	285.0	43	Y		300	730	$144	$41,040	$24,624	M	$6,156		$0	1	$7,500		$0	$0		$0		$0	4	25%	$19,830	$99,150	$19,830	$19,830	$138,810	
10	41	UNK	M15-123	M15-122	20	ACP	380.0	43	N		330	710	$160	$60,800	$36,480	M	$9,120		$0	7	$52,500		$0	$0		$0		$0	3	18%	$27,608	$186,708	$37,342	$37,342	$261,391	
10	45	SHOPPING LN	M16-124	M15-128	20	ACP	249.0	43	N		320	700	$160	$39,840	$23,904	M	$5,976		$0	3	$22,500		$0	$0		$0		$0	4	25%	$23,055	$115,275	$23,055	$23,055	$161,385	
10	53	UNK	M16-122	M16-127	18	ACP	266.0	43	Y		310	690	$144	$38,304	$15,322	T	$1,915		$0	3	$22,500		$0	$0		$0		$0	4	25%	$19,510	$97,551	$19,510	$19,510	$136,571	
10	64	MARLIN DR	M16-126	M16-125	18	ACP	269.0	43	N		300	680	$144	$38,736	$23,242	M	$5,810		$0	2	$15,000		$0	$0		$0		$0	3	18%	$14,488	$97,276	$19,455	$19,455	$136,186	
10	65	SHOPPING LN	M15-128	M15-127	20	ACP	254.0	43	N		300	680	$160	$40,640	$24,384	M	$6,096		$0	3	$22,500		$0	$0		$0		$0	3	18%	$16,384	$110,004	$22,001	$22,001	$154,005	
10	66	SHOPPING LN	M15-127	M15-126	20	ACP	396.4	43	N		300	680	$160	$63,424	$38,054	M	$9,514		$0	3	$22,500		$0	$0		$0		$0	3	18%	$23,361	$156,853	$31,371	$31,371	$219,594	
10	79	UNK	M15-121	M15-120	20	ACP	402.3	43	Y		320	675	$160	$64,368	$38,621	M	$9,655		$0	10	$75,000		$0	$0		$0		$0	3	18%	$32,838	$220,482	$44,096	$44,096	$308,674	
10	98	UNK	M15-125	M15-124	20	ACP	331.9	43	Y		300	655	$160	$37,440	$14,976	T	$1,872		$0		$0		$0	$0		$0		$0	3	18%	$9,500	$63,788	$12,758	$12,758	$89,304	$1,605,921 10
11	40	SYCAMORE DR	N12-152	M12-106	12	ACP	273.2	42	Y		330	710	$65	$17,758	$888	T	$888		$0	5	$37,500		$0	$0		$0		$0	4	37%	$21,103	$78,136	$15,627	$15,627	$109,391	
11	61	SYCAMORE DR	N12-144	N12-152	12	ACP	266.0	42	N		300	680	$65	$17,290	$1,729	M	$2,594		$0	1	$7,500		$0	$0		$0		$0	2	10%	$2,911	$32,024	$6,405	$6,405	$44,833	
11	76	SYCAMORE DR	M12-111	M12-116	14	ACP	105.0	42	Y		250	680	$112	$11,760	$3,528	M	$1,764		$0	2	$15,000		$0	$0		$0		$0	4	37%	$11,859	$43,911	$8,782	$8,782	$61,476	
11	44	SYCAMORE DR	M12-150	M12-155	14	ACP	224.1	42	N		320	700	$112	$25,099	$7,530	M	$3,765		$0	1	$7,500		$0	$0		$0		$0	3	25%	$10,973	$54,867	$10,973	$10,973	$76,814	
11	138	SYCAMORE DR	M12-147	M12-150	14	ACP	252.0	42	Y		200	605	$112	$52,214	$15,664	M	$7,832		$0		$0		$0	$0		$0		$0	3	25%	$18,928	$94,639	$18,928	$18,928	$132,494	
11	62	SYCAMORE DR	M12-143	M12-147	14	ACP	252.0	42	N		300	680	$112	$28,224	$8,467	M	$4,234		$0	2	$15,000		$0	$0		$0		$0	3	25%	$13,981	$69,906	$13,981	$13,981	$97,868	
11	63	SYCAMORE DR	M12-116	M12-131	14	ACP	396.0	42	N		300	680	$112	$44,352	$13,306	M	$6,653		$0	2	$15,000		$0	$0		$0		$0	4	37%	$29,345	$103,655	$21,731	$21,731	$152,117	$874,994 11
		Total Estimated Length:					25,278.6																								Total Estimated Costs[e]:			$14,408,000	

Notes:

City Priority Group	Priortization Number	Pipe Data											Costs and Cost Modifiers																				
																Traffic Control		Groundwater		Laterals					Spot Repairs		Infiltration		Risk Assessment				
		Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Sag Length	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	Cost SAG	No. obstructions	Costs ($)[c]	Infiltration?	Costs ($)[c]	Risk Level (1 = low, 5= high)	% Risk	Cost ($)	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)	PROJECT SUBTOTALS

a) Modified PACP score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.

b) Total score is the sum of the Modified PACP score and all criticality factors.

c) Costs developed from Unit Cost table.

d) Total Approximate Construction Costs are the sum of the CIPP Construction Cost plus all other costs.

e) Total Costs rounded to the nearest $1,000.

* Epoxy-lined ACP

* Video was inconclusive and Modified PACP Score represents a minimum score based on the portion of the segment that was viewable.

Table 2-2: 3 to 5 Years Rehabilitation - Estimate of Probable Cost

		Pipe Data										Costs and Cost Modifiers																							
															Traffic Control		Groundwater		Laterals					Spot Repairs		Infiltration		Risk Assessment							
City Priority Group	Prioritization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Sag Length	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	Cost SAG	No. obstructions	Costs ($)[c]	Infiltration?	Costs ($)[c]	Risk Level (1 = low, 5 = high)	% Risk	Cost ($)	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[e]	Contingency Costs ($)[e]	TOTAL Estimated Costs ($)	PROJECT SUBTOTALS	
12	80	UNK	N6-102	N6-100	10	ACP	396.0	43	Y	160	340	670	$60	$23,760	$1,188	T	$1,188		$0		$0		$0	$160,000		$0	Y	$0	2	10%	$2,614	$188,750	$37,750	$37,750	$264,249		
12	94	UNK	O13-128	O13-148	10	RCP	399.1	33	Y	65	420	655	$60	$23,946	$1,197	T	$1,197		$0	4	$30,000		$0	$65,000		$0		$0	3	25%	$14,085	$135,426	$27,085	$27,085	$189,696		
12	137	E. GALENA AVE	M12-107	M12-106	10	ACP	114.3	42	Y	45	200	605	$60	$6,858	$686	M	$1,029		$0		$0		$0	$45,000		$0		$0	3	25%	$2,143	$55,716	$11,143	$11,143	$78,002		
12	110	SORREL ST	M9-149	M9-148	10	VCP	342.1	43	Y	80	400	630	$60	$20,526	$1,026	T	$1,026	Y	$0	7	$52,500		$0	$60,000		$0		$0	2	10%	$7,508	$142,588	$28,517	$28,517	$199,621		
12	126	N VERA CT	M19-108	M19-122	10	ACP	152.4	42	Y	20	240	620	$60	$9,144	$914	M	$1,372	Y	$0		$0		$0	$20,000		$0	Y	$0	3	25%	$2,857	$34,287	$6,857	$6,857	$48,002		
12	128	DALHART AVE	P17-107	P17-111	10	ACP	356.1	43	Y		220	615	$60	$21,366	$1,068	T	$1,068		$0	1	$7,500		$0	$0		$0		$0	3	25%	$7,751	$38,753	$7,751	$7,751	$54,255		
12	99	TAPO CANYON RD	O15-131A	O15-134	12	ACP	304.0	35	Y	30	320	650	$65	$19,760	$1,976	M	$2,964		$0		$0		$0	$30,000		$0		$0	5	50%	$12,350	$67,050	$13,410	$13,410	$93,870		
12	100	TAPO CANYON RD	Q15-155	P15-100	12	ACP	416.0	35	Y	50	320	650	$65	$27,040	$2,704	M	$4,056		$0		$0		$0	$50,000		$0		$0	5	50%	$16,900	$100,700	$20,140	$20,140	$140,980	$1,068,575	12
13	81	E LOS ANGELES AVE	M14-120	M14-119	30	ACP	528.0	35	Y		320	670	$240	$126,720	$88,704	M	$19,008		$0	2	$15,000		$0	$0		$0		$0	4	18%	$43,651	$293,083	$58,617	$58,617	$410,318		
13	82	E LOS ANGELES AVE	M15-107	M14-120	30	ACP	456.0	35	Y		320	670	$240	$109,440	$76,608	M	$16,416		$0		$0		$0	$0		$0		$0	4	18%	$35,431	$237,895	$47,579	$47,579	$333,053		
13	87	E LOS ANGELES AVE	M14-119	M14-118	30	ACP	489.0	34	Y		320	670	$240	$117,360	$82,152	M	$17,604		$0		$0		$0	$0		$0		$0	4	18%	$37,995	$255,111	$51,022	$51,022	$357,156		
13	103	E LOS ANGELES AVE	M14-117	M14-116	36	ACP	419.0	34	Y		320	645	$360	$150,840	$120,672	M	$22,626		$0		$0		$0	$0		$0		$0	4	15%	$44,121	$338,259	$67,652	$67,652	$473,562		
13	104	E LOS ANGELES AVE	M14-118	M14-117	30	ACP	485.0	34	Y		320	645	$240	$116,400	$81,480	M	$17,460		$0		$0		$0	$0		$0		$0	4	18%	$37,685	$253,025	$50,605	$50,605	$354,234		
13	141	E LOS ANGELES AVE	M15-109	M15-108	24	ACP	485.5	35	N		320	600	$192	$93,216	$55,930	M	$13,982		$0	16	$120,000		$0	$0		$0		$0	4	25%	$70,782	$353,910	$70,782	$70,782	$495,474		
13	115	E LOS ANGELES AVE	M16-113	M16-112	24	ACP	450.1	35	N		320	625	$192	$86,419	$51,852	M	$12,963		$0	2	$15,000	2	$800	$0		$0		$0	5	30%	$50,110	$217,144	$43,429	$43,429	$304,001		
13	139	E LOS ANGELES AVE	M17-103	M16-107	18	ACP	400.0	42	Y		200	605	$144	$57,600	$34,560	M	$8,640		$0		$0		$0	$0		$0		$0	5	30%	$30,240	$131,040	$26,208	$26,208	$183,456		
13	130	TEXAS AVE	P17-110	P17-120	18	ACP	287.0	35	Y		240	610	$144	$41,328	$24,797	M	$6,199		$0	2	$15,000		$0	$0		$0		$0	3	18%	$15,282	$102,606	$20,521	$20,521	$143,648	$3,054,900	13
14	116	ERRINGER RD	M10-103	M10-110	33	ACP	72.0	35	N		320	620	$264	$19,008	$15,206	M	$2,851		$0		$0		$0	$0		$0		$0	5	20%	$7,413	$44,479	$8,896	$8,896	$62,270		
14	83	E LOS ANGELES AVE	M12-110	M12-109	36	ACP	489.0	34	Y		320	670	$360	$176,040	$140,832	M	$26,406		$0		$0		$0	$0		$0		$0	4	15%	$51,492	$394,770	$78,954	$78,954	$552,678		
14	84	E LOS ANGELES AVE	M12-112A	M12-111	36	ACP	14.0	34	Y		320	670	$360	$5,040	$4,032	M	$756		$0		$0		$0	$0		$0		$0	4	15%	$1,474	$11,302	$2,260	$2,260	$15,823		
14	101	E LOS ANGELES AVE	M12-109	M12-108	36	ACP	488.0	34	N		320	645	$360	$175,680	$140,544	M	$26,352		$0		$0		$0	$0		$0		$0	4	15%	$51,386	$393,962	$78,792	$78,792	$551,547		
14	111	E LOS ANGELES AVE	M11-109	M11-108	33	ACP	478.0	34	N		330	630	$264	$126,192	$100,954	M	$18,929		$0		$0		$0	$0		$0		$0	4	18%	$43,063	$289,137	$57,827	$57,827	$404,792		
14	117	E LOS ANGELES AVE	M11-107	M11-106	33	ACP	485.5	34	N		320	620	$264	$128,172	$102,538	M	$19,226		$0		$0		$0	$0		$0		$0	4	18%	$43,739	$293,674	$58,735	$58,735	$411,144		
14	118	E LOS ANGELES AVE	M11-108	M11-107	33	ACP	466.0	34	N		320	620	$264	$123,024	$98,419	M	$18,454		$0		$0		$0	$0		$0		$0	4	18%	$41,982	$281,879	$56,376	$56,376	$394,630		
14	119	E LOS ANGELES AVE	M11-110	M11-109	33	ACP	444.5	34	N		320	620	$264	$117,348	$93,878	M	$17,602		$0		$0		$0	$0		$0		$0	4	18%	$40,045	$268,874	$53,775	$53,775	$376,423		
14	120	E LOS ANGELES AVE	M12-103	M11-110	36	ACP	238.0	34	N		320	620	$360	$85,680	$68,544	M	$12,852		$0		$0		$0	$0		$0		$0	4	15%	$25,061	$192,137	$38,427	$38,427	$268,992		
14	121	E LOS ANGELES AVE	M12-111	M12-110	36	ACP	494.0	34	N		320*	620	$360	$177,840	$142,272	M	$26,676		$0		$0		$0	$0		$0		$0	4	15%	$52,018	$398,806	$79,761	$79,761	$558,329		
14	122	E LOS ANGELES AVE	M12-112	M12-112A	36	ACP	504.0	34	N		320	620	$360	$181,440	$145,152	M	$27,216		$0		$0		$0	$0		$0		$0	4	15%	$53,071	$406,879	$81,376	$81,376	$569,631		
14	85	E LOS ANGELES AVE	M13-112	M13-111	36	ACP	515.0	34	Y		320	670	$360	$185,400	$148,320	M	$27,810		$0		$0		$0	$0		$0		$0	4	15%	$54,230	$415,760	$83,152	$83,152	$582,063		
14	86	E LOS ANGELES AVE	M13-113	M13-112	36	ACP	498.0	34	Y		320	670	$360	$179,280	$143,424	M	$26,892		$0		$0		$0	$0		$0		$0	4	15%	$52,439	$402,035	$80,407	$80,407	$562,850		
14	102	E LOS ANGELES AVE	M13-111	M13-110	36	ACP	500.0	34	N		320	645	$360	$180,000	$144,000	M	$27,000		$0		$0		$0	$0		$0		$0	4	15%	$52,650	$403,650	$80,730	$80,730	$565,110		
14	127	PATRICIA AVE	M10-119	M9-125	33	ACP	505.5	35	N		340	615	$264	$133,452	$66,726	T	$6,673		$0	4	$30,000		$0	$0		$0	Y	$5,055	3	15%	$36,266	$276,191	$55,638	$55,638	$389,468	$8,265,750	14
15	89	W EASY ST	O7-112	O7-111	36	ACP	404.0	35	N		340	665	$360	$145,440	$116,352	M	$21,816	Y	$14,544		$0		$0	$0		$0		$0	4	15%	$44,723	$342,875	$68,575	$68,575	$480,025		
15	92	UNK	O7-115	O6-134	20	ACP	366.0	43	N		330	660	$160	$58,560	$23,424	T	$2,928	Y	$2,928		$0		$0	$0		$0	Y	$3,660	3	18%	$16,013	$107,513	$21,503	$21,503	$150,518		
15	113	UNK	O6-134	O6-133	20	ACP	366.0	43	N		300	630	$160	$58,560	$23,424	T	$2,928	Y	$2,928	5	$37,500		$0	$0		$0		$0	3	18%	$21,935	$147,275	$29,455	$29,455	$206,184		
15	106	UNK	P5-100	P5-102	48	ACP	542.7	35	Y		300	635	$480	$260,496	$130,248	T	$13,025		$0		$0		$0	$0		$0		$0	3	13%	$50,471	$454,240	$90,848	$90,848	$635,936		
15	107	UNK	P6-101	P5-100	48	ACP	496.8	35	Y		300	635	$480	$238,464	$119,232	T	$11,923		$0		$0		$0	$0		$0		$0	3	13%	$46,202	$415,822	$83,164	$83,164	$582,150		
15	129	UNK	O6-116	O6-116	33	ACP	300.0	44	Y		200	615	$264	$79,200	$39,600	T	$3,960		$0		$0		$0	$0		$0		$0	3	15%	$18,414	$141,174	$28,235	$28,235	$197,644	$2,252,458	15
16	90	ROYAL AVE	K12-116	K12-119	20	ACP	284.1	29	Y		340	660	$160	$45,456	$27,274	M	$6,818		$0	2	$15,000		$0	$0		$0		$0	3	18%	$16,546	$111,094	$22,219	$22,219	$155,531		
16	93	ROYAL AVE	K12-117	K12-115	20	ACP	296.0	29	Y		300	660	$160	$47,360	$28,416	M	$7,104		$0	2	$15,000		$0	$0		$0		$0	4	25%	$24,470	$122,350	$24,470	$24,470	$171,290		
16	91	ROYAL AVE	L14-105	L14-114	20	ACP	365.3	29	Y		340	660	$160	$58,448	$35,069	M	$8,767		$0	4	$30,000		$0	$0		$0		$0	3	18%	$23,150	$155,434	$31,087	$31,087	$217,607		
16	96	ROYAL AVE	L13-143	L12-150	20	ACP	399.1	43	N		300	655	$160	$63,856	$38,314	M	$9,578		$0	5	$37,500		$0	$0		$0		$0	4	25%	$37,312	$186,560	$37,312	$37,312	$261,184		
16	108	ROYAL AVE	L13-138	L13-143	20	ACP	448.4	43	N		240	635	$160	$71,744	$43,046	M	$10,762		$0	2	$15,000		$0	$0		$0		$0	5	30%	$42,166	$182,718	$36,544	$36,544	$255,805		
16	114	ROYAL AVE	L14-119	L14-120	20	ACP	274.0	31	Y		300	630	$160	$43,840	$26,304	M	$6,576		$0		$0		$0	$0		$0		$0	3	18%	$13,426	$90,146	$18,029	$18,029	$126,204		
16	123	ROYAL AVE	L13-129	L13-133	20	ACP	223.0	29	Y		300	620	$160	$35,680	$21,408	M	$5,352		$0	3	$22,500		$0	$0		$0		$0	4	25%	$21,235	$106,175	$21,235	$21,235	$148,645		
16	124	ROYAL AVE	L13-130	L13-134	20	ACP	293.9	29	Y		300	620	$160	$47,024	$28,214	M	$7,054		$0	3	$22,500		$0	$0		$0		$0	3	18%	$18,339	$123,131	$24,626	$24,626	$172,383		
16	125	ROYAL AVE	L13-132	L13-131	20	ACP	275.0	29	Y		300	620	$160	$44,000	$26,400	M	$6,600		$0		$0		$0	$0		$0		$0	3	18%	$13,475	$90,475	$18,095	$18,095	$126,665		
16	135	ROYAL AVE	K11-114	K11-113	20	ACP	198.0	43	Y		200	605	$160	$31,680	$19,008	M	$4,752		$0	2	$15,000		$0	$0		$0		$0	3	18%	$12,327	$82,767	$16,553	$16,553	$115,874		
16	136	ROYAL AVE	K11-115	K11-114	20	ACP	181.3	43	Y		200	605	$160	$29,008	$17,405	M	$4,351		$0		$0		$0	$0		$0		$0	3	18%	$8,884	$59,648	$11,930	$11,930	$83,507	$1,834,695	16
17	88	E EASY ST	N8-136	N8-137	33	ACP	262.0	36	N		340	665	$264	$69,168	$55,334	M	$10,375	Y	$8,917	2	$15,000	1	$400	$0		$0	Y	$2,620	3	15%	$23,972	$183,787	$36,757	$36,757	$257,301		
17	133	E EASY ST	N8-128	N8-127	36	ACP	150.0	35	N		330	605	$360	$54,000	$43,200	M	$8,100	Y	$5,400	1	$7,500		$0	$0		$0		$0	3	13%	$14,775	$132,975	$26,595	$26,595	$186,165		
17	95	5TH ST	M8-159	M8-130	24	ACP	366.0	44	Y		300	655	$192	$70,272	$28,109	T	$3,514	Y	$7,027	2	$15,000		$0	$0		$0		$0	3	18%	$21,686	$145,608	$29,122	$29,122	$203,851		
17	144	5TH ST	M8-114	M8-111	24	ACP	162.0	44	N		240	595	$192	$31,104	$18,662	M	$4,666	Y	$3,110	1	$7,500		$0	$0		$0		$0	4	25%	$16,261	$81,303	$16,261	$16,261	$113,824		
17	112	VENTURA AVE	M8-172	M8-171	24	ACP	356.0	44	N		300	630	$192	$68,352	$27,341	T	$3,418	Y	$6,835	5	$37,500		$0	$0		$0		$0	2	10%	$14,345	$157,790	$31,558	$31,558	$220,906	$982,048	17
			Total Estimated Length:				19,680.7																									Total Estimated Costs[e]:			$15,458,000		

Notes:

a) Modified PACP score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.

b) Total score is the sum of the Modified PACP score and all criticality factors.

c) Costs developed from Unit Cost table.

d) Total Approximate Construction Costs are the sum of the CIPP Construction Cost plus all other costs.

e) Total Costs rounded to the nearest $1,000.

* Epoxy-lined ACP

* Video was inconclusive and Modified PACP Score represents a minimum score based on the portion of the segment that was viewable.

Table 2-3: 5 to 10 Years Rehabilitation - Estimate of Probable Cost

		Pipe Data											Costs and Cost Modifiers																					
																Traffic Control		Groundwater		Laterals					Spot Repairs		Infiltration		Risk Assessment						
City Priority Group	Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Sag Length	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	Cost SAG	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)	PROJECT SUBTOTALS	
18	97	HEYWOOD ST	M11-147	M11-146	14	ACP	340.0	43	Y	0	300	655	$112	$38,080	$7,616	T	$1,904		$0		$0		$0	$0		$0		$0	3	25%	$11,900	$59,500	$11,900	$11,900	$83,300		
18	158	HEYWOOD ST	M11-140	M10-137	14	ACP	287.7	43	N	0	300	580	$112	$32,222	$6,444	T	$1,611		$0	2	$15,000		$0	$0		$0		$0	3	25%	$13,820	$69,098	$13,820	$13,820	$96,737		
18	159	HEYWOOD ST	M11-145	M11-144	14	ACP	338.0	43	N	0	300	580	$112	$37,856	$7,571	T	$1,893		$0	2	$15,000		$0	$0		$0		$0	3	25%	$15,580	$77,900	$15,580	$15,580	$109,060		
18	238	HEYWOOD ST	M11-148	M11-147	14	ACP	218.0	42	N	0	200	505	$112	$24,416	$4,883	T	$1,221		$0	7	$52,500		$0	$0		$0		$0	3	25%	$20,755	$103,775	$20,755	$20,755	$145,285		
18	239	HEYWOOD ST	M11-149	M11-148	14	ACP	252.0	42	N	0	200	505	$112	$28,224	$5,645	T	$1,411		$0	7	$52,500		$0	$0		$0		$0	3	25%	$21,945	$109,725	$21,945	$21,945	$153,615		
18	256	YSRELLA AVE	M11-131	M11-144	12	ACP	396.0	43	N	0	200	480	$65	$25,740	$1,287	T	$1,287		$0	1	$7,500		$0	$0		$0		$0	4	37%	$13,251	$49,065	$9,813	$9,813	$68,691		
18	257	HEYWOOD ST	M11-146	M11-145	14	ACP	338.0	43	N	0	200	480	$112	$37,856	$7,571	T	$1,893		$0	1	$7,500		$0	$0		$0		$0	3	25%	$13,705	$68,525	$13,705	$13,705	$95,935	$752,623	18
19	105	ROSALIE ST	N13-160	N13-161	10	ACP*	220.8	42	Y	60	310	640	$60	$13,248	$1,325	M	$1,987		$0		$0		$0	$60,000		$0		$0	3	25%	$19,140	$95,700	$19,140	$19,140	$133,980		
19	149	ROSALIE ST	M14-109	M14-110	10	ACP*	256.0	42	Y	0	310	590	$60	$15,360	$768	T	$768		$0	2	$15,000		$0	$0		$0		$0	3	25%	$7,974	$39,870	$7,974	$7,974	$55,818		
19	150	ROSALIE ST	N13-161	N14-161	10	ACP*	220.8	42	Y	40	310	590	$60	$13,248	$662	T	$662		$0	2	$15,000		$0	$40,000		$0		$0	3	25%	$17,393	$86,966	$17,393	$17,393	$121,752		
19	164	ROSALIE ST	M14-110	M14-108	10	ACP*	258.0	42	Y	40	300	580	$60	$15,480	$774	T	$774		$0	8	$60,000		$0	$40,000		$0		$0	3	25%	$29,257	$146,285	$29,257	$29,257	$204,799		
19	184	ROSALIE ST	M14-106A	M14-109	10	PVC	256.0	42	Y	65	340	560	$60	$15,360	$768	T	$768		$0	2	$15,000		$0	$65,000		$0		$0	3	25%	$24,224	$121,120	$24,224	$24,224	$169,568		
19	186	UNK	M14-105	M14-128	15	ACP*	465.0	42	N	0	250*	560	$120	$55,800	$16,740	M	$8,370		$0		$0		$0	$0		$0		$0	5	40%	$32,364	$113,274	$22,655	$22,655	$158,584		
19	232	BOLIVAR CT	M14-100	M14-111	12	ACP	154.1	36	N	0	300	505	$65	$10,017	$501	T	$501		$0	1	$7,500		$0	$0		$0		$0	4	37%	$6,852	$25,370	$5,074	$5,074	$35,518		
19	245	CADMAN ST	M14-114	M14-100	12	ACP*	155.9	36	N	0	340	495	$65	$10,133	$507	T	$507		$0		$0		$0	$0		$0		$0	4	37%	$4,124	$15,271	$3,054	$3,054	$21,380	$901,398	19
20	109	COCHRAN ST	O12-126	O12-131	12	DIP	46.0	26	N	0	500	630	$65	$2,990	$299	M	$449		$0		$0		$0	$0		$0		$0	3	25%	$934	$4,672	$934	$934	$6,541		
20	170	SYCAMORE DR	N12-116	N12-126	12	ACP	386.0	42	N	0	220	575	$65	$25,090	$2,509	M	$3,764		$0	13	$97,500		$0	$0		$0		$0	4	37%	$47,679	$176,542	$35,308	$35,308	$247,158		
20	171	SYCAMORE DR	N12-126	N12-137	12	ACP	386.0	42	N	0	220	575	$65	$25,090	$2,509	M	$3,764		$0		$0		$0	$0		$0		$0	4	37%	$11,604	$42,967	$8,593	$8,593	$60,153		
20	183	COCHRAN ST	O12-131	O12-130	10	PVC	368.0	29	Y	0	400	560	$60	$22,080	$2,208	M	$3,312		$0		$0		$0	$0		$0		$0	3	25%	$6,900	$34,500	$6,900	$6,900	$48,300		
20	205	SYCAMORE DR	O12-132	N12-103	10	ACP	260.0	29	Y	15	240	535	$60	$15,600	$1,560	M	$2,340		$0		$0		$0	$15,000		$0		$0	3	25%	$8,625	$43,125	$8,625	$8,625	$60,375		
20	281	SYCAMORE DR	M12-141	M12-143	14	ACP	273.4	42	N	0	100	455	$112	$30,621	$9,186	M	$4,593		$0		$0		$0	$0		$0		$0	3	25%	$11,100	$55,500	$11,100	$11,100	$77,700	$500,227	20
21	131	ERRINGER RD	L10-106	L10-112	20	ACP	365.3	43	Y	0	230	610	$160	$58,448	$35,069	M	$8,767		$0	1	$7,500		$0	$0		$0		$0	4	25%	$27,446	$137,230	$27,446	$27,446	$192,122		
21	143	ERRINGER RD	L10-141	L10-131	20	ACP	354.0	45	N	0	240	595	$160	$56,640	$33,984	M	$8,496		$0	1	$7,500		$0	$0		$0		$0	4	25%	$26,655	$133,275	$26,655	$26,655	$186,585		
21	154	ROYAL AVE	L10-131	L10-120	24	ACP	400.0	45	N	0	230	585	$192	$76,800	$46,080	M	$11,520		$0	2	$15,000		$0	$0		$0		$0	4	25%	$37,350	$186,750	$37,350	$37,350	$261,450		
21	196	VENTURA AVE	M8-171	M8-170	24	ACP	356.0	44	N	0	240	545	$192	$68,352	$27,341	T	$3,418	Y	$6,835	7	$52,500		$0	$0		$0		$0	3	18%	$27,728	$186,174	$37,235	$37,235	$260,643		
21	230	VENTURA AVE	M8-170	M8-169	24	ACP	346.0	44	N	0	230	510	$192	$66,432	$26,573	T	$3,322	Y	$6,643	10	$75,000		$0	$0		$0		$0	3	18%	$31,145	$209,114	$41,823	$41,823	$292,760	$1,193,560	21
22	140	ELIZONDO AVE	L11-138	L11-136	10	ACP*	286.0	43	Y	0	320	600	$60	$17,160	$858	T	$858		$0	2	$15,000		$0	$0		$0		$0	3	25%	$8,469	$42,345	$8,469	$8,469	$59,283		
22	155	ELIZONDO AVE	L11-133	L11-137	10	ACP*	214.3	43	Y	0	300	580	$60	$12,858	$643	T	$643		$0	1	$7,500		$0	$0		$0		$0	3	25%	$5,411	$27,055	$5,411	$5,411	$37,877		
22	156	ELIZONDO AVE	L11-136	L11-132	10	ACP*	288.2	43	Y	0	300	580	$60	$17,292	$865	T	$865		$0	2	$15,000		$0	$0		$0		$0	3	25%	$8,505	$42,527	$8,505	$8,505	$59,537		
22	157	ELIZONDO AVE	L11-137	L11-138	10	ACP*	183.6	43	Y	20	300	580	$60	$11,016	$551	T	$551		$0	2	$15,000		$0	$20,000		$0		$0	3	25%	$11,779	$58,897	$11,779	$11,779	$82,456		
22	160	ELIZONDO AVE	L11-128	L11-129	10	ACP*	256.7	42	Y	0	300	580	$60	$15,402	$770	T	$770		$0	2	$15,000		$0	$0		$0		$0	3	25%	$7,986	$39,928	$7,986	$7,986	$55,899		
22	161	ELIZONDO AVE	L11-129	L11-130	10	ACP*	256.7	42	Y	0	300	580	$60	$15,402	$770	T	$770		$0	3	$22,500		$0	$0		$0		$0	3	25%	$9,861	$49,303	$9,861	$9,861	$69,024		
22	162	ELIZONDO AVE	L11-130	L11-131	10	ACP*	255.3	42	Y	60	300	580	$60	$15,318	$766	T	$766		$0	3	$22,500		$0	$60,000		$0		$0	3	25%	$24,837	$124,187	$24,837	$24,837	$173,862		
22	163	ELIZONDO AVE	L11-131	L11-133	10	ACP*	214.3	42	Y	40	300	580	$60	$12,858	$643	T	$643		$0	3	$22,500		$0	$40,000		$0		$0	3	25%	$19,161	$95,805	$19,161	$19,161	$134,127		
22	209	ELIZONDO AVE	L11-132	L10-111	10	ACP*	349.2	43	N	0	300	530	$60	$20,952	$1,048	T	$1,048		$0	10	$75,000		$0	$0		$0		$0	3	25%	$24,512	$122,559	$24,512	$24,512	$171,583	$843,647	22
23	142	KADOTA ST	O16-130	O16-139	10	ACP	169.5	35	N	0	320	600	$60	$10,170	$1,017	M	$1,526		$0		$0		$0	$0		$0		$0	3	25%	$3,178	$15,891	$3,178	$3,178	$22,247		
23	223	KADOTA ST	O16-114	O16-116	10	ACP	395.0	35	N	0	220	515	$60	$23,700	$2,370	M	$3,555		$0		$0		$0	$0		$0		$0	3	25%	$7,406	$37,031	$7,406	$7,406	$51,844		
23	260	KADOTA ST	O16-127	O16-130	10	ACP	228.4	35	N	0	200	480	$60	$13,704	$1,370	M	$2,056		$0		$0		$0	$0		$0		$0	3	25%	$4,283	$21,413	$4,283	$4,283	$29,978	$104,068	23
24	146	ALAMO ST	P15-115	P15-115A	10	ACP	165.0	31	Y	130	240	595	$60	$9,900	$990	M	$1,485		$0	3	$22,500		$0	$130,000		$0	Y	$0	4	37%	$61,004	$225,879	$45,176	$45,176	$316,230		
24	147	ALAMO ST	P15-117A	P15-116	10	ACP	350.0	31	Y	175	240	595	$60	$21,000	$2,100	M	$3,150		$0	3	$22,500		$0	$175,000		$0		$0	4	37%	$82,788	$306,538	$61,308	$61,308	$429,153		
24	178	ALAMO ST	P15-118	P15-117	10	ACP	450.0	31	Y	230	240	570	$60	$27,000	$2,700	M	$4,050		$0	4	$30,000		$0	$230,000		$0		$0	4	37%	$108,688	$402,438	$80,488	$80,488	$563,413		
24	241	ALAMO ST	P15-116	P15-115	10	ACP	330.0	31	N	0	200	505	$60	$19,800	$1,980	M	$2,970		$0		$0		$0	$0		$0		$0	4	37%	$9,158	$33,908	$6,782	$6,782	$47,471		
24	275	ALAMO ST	P15-115A	P15-114	10	ACP	336.0	31	Y	150	130	460	$60	$20,160	$2,016	M	$3,024		$0	1	$7,500		$0	$150,000		$0		$0	4	37%	$67,599	$250,299	$50,060	$50,060	$350,419	$1,706,684	24
25	151	E LOS ANGELES AVE	M16-116A	M16-120	18	DIP	317.4	43	Y	0	300	590	$144	$45,706	$27,423	M	$6,856		$0		$0		$0	$0		$0		$0	4	25%	$19,998	$99,981	$19,996	$19,996	$139,973		
25	152	E LOS ANGELES AVE	M16-120	M16-121	18	DIP	300.0	43	Y	0	300	590	$144	$43,200	$25,920	M	$6,480		$0		$0		$0	$0		$0		$0	4	25%	$18,900	$94,500	$18,900	$18,900	$132,300		
25	187	COCHRAN ST	O16-134A	O15-141	18	ACP	355.0	35	Y	0	230	560	$144	$51,120	$30,672	M	$7,668		$0		$0		$0	$0		$0		$0	4	25%	$22,365	$111,825	$22,365	$22,365	$156,555		
25	197	MARLIN DR	M16-127	M16-126	18	ACP	70.0	43	N	0	240	545	$144	$10,080	$4,032	T	$504		$0		$0		$0	$0		$0		$0	4	25%	$3,654	$18,270	$3,654	$3,654	$25,578		
25	199	E LOS ANGELES AVE	M16-121	M16-122	18	DIP	30.0	43	N	0	300	540	$144	$4,320	$2,592	M	$648		$0		$0		$0	$0		$0		$0	4	25%	$1,890	$9,450	$1,890	$1,890	$13,230		
25	259	WINIFRED ST	O15-140	N15-104	18	ACP	245.7	35	N	0	200	480	$144	$35,381	$21,228	M	$5,307		$0		$0		$0	$0		$0		$0	4	25%	$15,479	$77,396	$15,479	$15,479	$108,354	$575,990	25
26	153	HILLDALE AVE	M12-105	M12-104	10	ACP	148.7	42	Y	20	220	590	$60	$8,922	$446	T	$446		$0	1	$7,500		$0	$20,000		$0		$0	5	50%	$18,657	$55,971	$11,194	$11,194	$78,360		
26	185	ALSCOT AVE	N20-156	M20-109	10	PVC	368.0	42	Y	140	340	560	$60	$22,080	$1,104	T	$1,104		$0	4	$30,000		$0	$140,000		$0		$0	3	25%	$48,572	$242,860	$48,572	$48,572	$340,004		
26	253	HILLDALE AVE	M13-100	M12-100	10	ACP	256.3	42	Y	45	120	490	$60	$15,378	$769	T	$769		$0	6	$45,000		$0	$45,000		$0		$0	5	50%	$53,458	$160,374	$32,075	$32,075	$224,523		
26	285	ANASTASIA AVE	M20-109	M20-108	10	ACP	258.0	42	Y	70	120	450	$60	$15,480	$774	T	$774		$0		$0		$0	$70,000		$0		$0	3	25%	$21,757	$108,785	$21,757	$21,757	$152,299	$795,186	26
27	166	UNK	M15-120	M15-119	20	ACP	400.0	43	Y	0	220	575	$160	$64,000	$25,600	T	$3,200		$0	2	$15,000		$0	$0		$0		$0	4	25%	$26,950	$134,750	$26,950	$26,950	$188,650		
27	172	ROYAL AVE	K12-106	K12-112	20	ACP	194.0	29	N	0	300	570	$160	$31,040	$18,624	M	$4,656		$0	1	$7,500		$0	$0		$0		$0	4	25%	$15,455	$77,275	$15,455	$15,455	$108,185		
27	173	ROYAL AVE	K12-112	K12-116	20	ACP	131.8	29	N	0	300	570	$160	$21,088	$12,653	M	$3,163		$0	1	$7,500		$0	$0		$0		$0	4	25%	$11,101	$55,505	$11,101	$11,101	$77,707		
27	174	ROYAL AVE	L13-131	L13-130	20	ACP	283.5	29	N	0	300	570	$160	$45,360	$27,216	M	$6,804		$0	1	$7,500		$0	$0		$0		$0	4	25%	$21,720	$108,600	$21,720	$21,720	$152,040		
27	176	MERCURY PL	M14-140	M14-139	21	ACP	354.0	25	Y	0	300	570	$168	$59,472	$23,789	T	$2,974		$0	4	$30,000		$0	$0		$0		$0	3	18%	$20,341	$136,575	$27,315	$27,315	$191,206		
27	227	UNK	M15-124	M15-121	20	ACP	127.0	43	N	0	210	515	$160	$20,320	$8,128	T	$1,016		$0		$0		$0	$0		$0		$0	4	25%	$7,366	$36,830	$7,366	$7,366	$51,562		
27	237	UNK	M15-122	M15-125	20	ACP	80.0	43	N	0	200	505	$160	$12,800	$5,120	T	$640		$0	3	$22,500		$0	$0		$0		$0	4	25%	$10,265	$51,325	$10,265	$10,265	$71,855		
27	210	BUYERS ST	M15-126	M15-123	20	ACP	80.0	43	N	0	200	530	$160	$12,800	$5,120	T	$640		$0	1	$7,500	1	$400	$0		$0		$0	4	25%	$6,615	$33,075	$6,615	$6,615	$46,305	$887,510	27
28	167	DALHART AVE	P17-109	P17-107	10	ACP	417.5	43	Y	0	220	575	$60	$25,050	$1,253	T	$1,253		$0	2	$15,000		$0	$0		$0		$0	3	25%	$10,639	$53,194	$10,639	$10,639	$74,471		
28	180	UNK	P16-136	P16-135	10	ACP	102.6	44	Y	40	210	565	$60	$6,156	$308	T	$308		$0	3	$22,500		$0	$40,000		$0		$0	4	37%	$25,630	$94,902	$18,980	$18,980	$132,863		
28	181	BEAUMONT ST	P16-141	P16-140	10	ACP	240.6	44	Y	0	210	565	$60	$14,436	$722	T	$722		$0	3	$22,500		$0	$0		$0		$0	3	25%	$9,595	$47,975	$9,595	$9,595	$67,164		
28	190	BEAUMONT ST	P16-140	P16-139	10	ACP	237.4	44	Y	0	200	555	$60	$14,244	$712	T	$712		$0	6	$45,000		$0	$0		$0		$0	3	25%	$15,167	$75,835	$15,167	$15,167	$106,170		
28	224	UNK	P16-137	P16-136	10	ACP	267.9	44	N	0	210	515	$60	$16,074	$804	T	$804		$0	1	$7,500		$0	$0		$0		$0	4	37%	$9,317	$34,499	$6,900	$6,900	$48,298		
28	225	BEAUMONT ST	P16-138	P16-137	10	ACP	239.4	44	N	0	210	515	$60	$14,364	$718	T	$718		$0	4	$30,000		$0	$0		$0		$0	3	25%	$11,450	$57,250	$11,450	$11,450	$80,151		
28	243	TEXAS AVE	P17-102	P17-106	10	ACP	358.0	35	Y	0	220	500	$60	$21,480	$1,074	T	$1,074		$0		$0		$0	$0		$0		$0	4	37%	$8,742	$32,370	$6,474	$6,474	$45,319	$554,435	28
29	192	STRATHEARN PL	N6-139	N6-141	10	TRUSS	305.5	22	Y	30	440	550	$60	$18,330	$917	T	$917	Y	$0	2	$15,000		$0	$30,000		$0	Y	$0	4	37%	$24,110	$89,273	$17,855	$17,855	$124,983		
29	193	UNK	N8-146	N8-144	10	RCP	379.7	41	Y	0	220	550	$60	$22,782	$1,139	T	$1,139	Y	$0	2	$15,000		$0	$0		$0		$0	5	50%	$20,030	$60,090	$12,018	$12,018	$84,126		
29	194	ALAMO ST	P16-144	P16-143A	18	ACP	73.0	35	N	0	210	550	$144	$10,512	$6,307	M	$1,577		$0	1	$7,500		$0	$0		$0		$0	4	25%	$6,474	$32,370	$6,474	$6,474	$45,318		
29	206	ALAMO ST	P16-145A	P16-144	15	ACP	375.0	35	N	0	220	535	$120	$45,000	$13,500	M	$6,750		$0		$0		$0	$0		$0		$0	4	30%	$19,575	$84,825	$16,965	$16,965	$118,755		
29	207	N WOOD RANCH PKWY	I5-123	I5-122	18	DIP	385.9	20	Y	0	340	530	$144	$55,570	$22,228	T	$2,778		$0		$0		$0	$0		$0		$0	4	25%	$20,144	$100,720	$20,144	$20,144	$141,008		
29	208	BUCKSKIN AVE	M9-148	L9-101	10	VCP	256.0	43	Y	100	300	530	$60	$15,360	$768	T	$768	Y	$0	3	$22,500		$0	$100,000		$0		$0	3	25%	$34,849	$174,245	$34,849	$34,849	$243,943	$758,133	29
30	132	DAMON ST	M18-182	M18-178	14	ACP	400.0	42	Y	20	220	610	$112	$44,800	$8,960	T	$2,240	Y	$2,240		$0		$0	$20,000		$0		$0	5	50%	$39,120	$117,360	$23,472	$23,472	$164,304		
30	168	DAMON ST	M18-170	M18-169	16	ACP	368.6	42	Y	0	220	575	$128	$46,925	$9,385	T	$2,346	Y	$2,346	6	$45,000		$0	$0		$0		$0	5	40%	$42,401	$148,403	$29,681	$29,681	$207,764		
30	177	UNK	M17-132	M17-130	18	ACP	103.0	42	Y	0	240	570	$144	$14,832	$5,933	T	$742		$0	4	$30,000		$0	$0		$0	Y	$1,030	5	30%	$15,761	$68,297	$13,659	$13,659	$95,616		
30	191	SUNTREE LN	M17-116	M17-114	18	ACP	400.0	42	Y	0	140	555	$144	$57,600	$23,040	T	$2,880		$0		$0		$0	$0		$0		$0	5	30%	$25,056	$108,576	$21,715	$21,715	$152,006		
30	201	DAMON ST	M18-171A	M18-171	14	PVC	260.0	42	Y	0	210	540	$112	$0	$0	M	$0	Y	$0		$0		$0	$0		$0		$0	0	FALSE	$0	$0	$0	$0	$0	NEWER PIPE	
30	203	DAMON ST	M18-178	M18-171A	14	ACP	85.0	42	Y	0	100	540	$112	$0	$0	M	$0		$0		$0		$0	$0		$0		$0	0	FALSE	$0	$0	$0	$0	$0	NEWER PIPE	
30	244	UNK	M18-168	M18-166	16	ACP	134.8	42	Y	0	120	500	$128	$17,254	$3,451	T	$863	Y	$863		$0		$0	$0		$0		$0	5	40%	$8,972	$31,403	$6,281	$6,281	$43,964		
30	266	E LOS ANGELES AVE	M17-114	M17-103	18	ACP	398.4	42	Y	0	10	475	$144	$57,370	$34,422	M	$8,605		$0		$0		$0	$0		$0		$0	5	30%	$30,119	$130,516	$26,103	$26,103	$182,722		
30	282	UNK	M18-163	M18-159	16	ACP	383.1	42	Y	0	100	455	$128	$49,037	$9,807	T	$2,452	Y	$2,452		$0		$0	$0		$0		$0	5	40%	$25,499	$89,247	$17,849	$17,849	$124,946	$971,323	30
31	148	E LOS ANGELES AVE	M14-115	M13-116	36	ACP	401.0	34	Y	0	220	595	$360	$144,360	$115,488	M	$21,654		$0	5	$37,500		$0	$0		$0		$0	4	15%	$47,850	$366,852	$73,370	$73,370	$513,593		
31	179	E LOS ANGELES AVE	M13-116	M13-115	36	ACP	438.0	34	Y	0	220	570	$360	$157,680	$126,144	M	$23,652		$0	1	$7,500		$0	$0		$0		$0	5	18%	$55,121	$370,097	$74,019	$74,019	$518,136		
31	188	E LOS ANGELES AVE	M10-104	M10-103	36	ACP	498.6	34	N	0	220	560	$360	$179,496	$143,597	M	$26,924		$0		$0		$0	$0		$0		$0	4	15%	$52,503	$402,520	$80,504	$80,504	$563,528		
31	189	E LOS ANGELES AVE	M11-105	M10-104	33	ACP	471.0	34	N	0	220	560	$264	$124,344	$99,475	M	$18,652		$0		$0		$0	$0		$0		$0	4	18%	$42,432	$284,903	$56,981	$56,981	$398,864		
31	198	E LOS ANGELES AVE	M13-114	M13-113	36	ACP	515.0	34	Y	0	220	545	$360	$185,400	$148,320	M	$27,810		$0	1	$7,500		$0	$0		$0		$0	4	15%	$55,355	$424,385	$84,877	$84,877	$594,138		
31	211	E LOS ANGELES AVE	M16-110	M16-109	24	ACP	351.1	35	Y	0	200	530	$192	$67,411	$40,447	M	$10,112		$0		$0		$0	$0		$0		$0	5	30%	$35,391	$153,360	$30,672	$30,672	$214,705		
31	218	E LOS ANGELES AVE	M16-112	M16-111	24	ACP	450.0	35	N	0	220	525	$192	$86,400	$51,840	M	$12,960		$0		$0		$0	$0		$0		$0	4	25%	$37,800	$189,000	$37,800	$37,800	$264,600		
31	240	E LOS ANGELES AVE	M15-111	M15-110	24	ACP	485.6	35	Y	0	200	505	$192	$93,235	$55,941	M	$13,985		$0		$0		$0	$0		$0		$0	4	25%	$40,790	$203,952	$40,790	$40,790	$285,533		

		Pipe Data											Costs and Cost Modifiers																							
																Traffic Control		Groundwater		Laterals					Spot Repairs		Infiltration		Risk Assessment							
City Priority Group	Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Sag Length	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	Cost SAG	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)	PROJECT SUBTOTALS	
31	247	E LOS ANGELES AVE	M12-113	M12-112	36	ACP	518.0	34	N	0	220	495	$360	$186,490	$149,184	M	$27,972		$0		$0		$0	$0		$0		$0	4	15%	$54,545	$418,181	$83,636	$83,636	$585,454		
31	248	E LOS ANGELES AVE	M14-116	M14-115	36	ACP	438.0	34	N	0	220	495	$360	$157,680	$126,144	M	$23,652		$0		$0		$0	$0		$0		$0	4	15%	$46,121	$353,597	$70,719	$70,719	$495,036	$4,433,587	31
32	169	WILLIAMS WY	M19-188	M19-187	12	ACP	326.7	42	Y	0	220	575	$65	$21,238	$1,062	T	$1,032	Y	$0	11	$82,500		$0	$0		$0		$0	4	37%	$39,188	$145,027	$29,005	$29,005	$203,038		
32	182	GUNNER LN (PVT)	M19-193	M19-192	12	ACP	281.8	42	Y	0	210	565	$65	$18,317	$916	T	$916	Y	$0		$0		$0	$0		$0		$0	4	37%	$7,455	$27,604	$5,521	$5,521	$38,645		
32	202	STOW ST	M18-129	M18-133	10	ACP	54.3	41	N	0	210	540	$60	$3,258	$326	M	$489		$0		$0		$0	$0		$0		$0	4	37%	$1,507	$5,579	$1,116	$1,116	$7,811		
32	216	DAVIDSON LN	M19-157	M19-164	10	ACP	66.1	42	N	0	220	525	$60	$3,966	$198	T	$198	Y	$0	2	$15,000	1	$400	$0		$0		$0	4	37%	$7,312	$27,075	$5,415	$5,415	$37,905		
32	217	WILLIAMS WY	M19-187	M19-183	12	ACP	317.6	42	N	0	220	525	$65	$20,644	$1,032	T	$1,032	Y	$0	2	$15,000		$0	$0		$0		$0	3	25%	$9,427	$47,136	$9,427	$9,427	$65,990		
32	221	DAVIDSON LN	M19-128	M19-143	10	RCP	344.7	42	N	0	250	520	$60	$20,682	$2,068	M	$3,102	Y	$0		$0		$0	$0		$0		$0	4	37%	$9,565	$35,418	$7,084	$7,084	$49,585		
32	231	AVENIDA SIMI	Q14-150	Q14-149	8	ACP	301.3	24	N	0	330	505	$50	$15,065	$753	T	$753		$0	5	$1,500		$0	$0		$0		$0	5	50%	$9,038	$27,107	$5,421	$5,421	$37,950		
32	246	AVENIDA SIMI	Q14-146	Q14-144	15	ACP	260.2	20	N	0	300	495	$120	$31,224	$6,245	T	$1,561		$0	3	$22,500		$0	$0		$0		$0	3	20%	$12,306	$73,836	$14,767	$14,767	$103,370		
32	262	STOW ST	N18-117	N18-123	10	VCP	225.0	37	N	0	320	475	$60	$13,500	$1,350	M	$2,025		$0	4	$30,000		$0	$0		$0		$0	3	25%	$11,719	$58,594	$11,719	$11,719	$82,031		
32	267	DAVIDSON LN	M19-164A	M19-177	10	ACP	110.0	42	Y	75	140	470	$60	$6,600	$330	T	$330	Y	$0	2	$15,000		$0	$75,000		$0		$0	4	37%	$35,986	$133,246	$26,649	$26,649	$186,545	$812,870	32
33	212	TAPO CANYON RD	O15-107	O15-118	12	ACP	460.0	35	Y	10	200	530	$65	$29,900	$2,990	M	$4,485		$0		$0		$0	$10,000		$0		$0	5	50%	$23,688	$71,063	$14,213	$14,213	$99,488		
33	213	TAPO CANYON RD	P15-113	P15-114	12	ACP	54.0	35	Y	0	200	530	$65	$3,510	$351	M	$527		$0		$0		$0	$0		$0		$0	5	50%	$2,194	$6,581	$1,316	$1,316	$9,214		
33	214	TAPO CANYON RD	P15-125	O15-101	12	ACP	280.0	35	Y	0	200	530	$65	$18,200	$1,820	M	$2,730		$0		$0		$0	$0		$0		$0	5	50%	$11,375	$34,125	$6,825	$6,825	$47,775		
33	242	TAPO CANYON RD	O15-126	O15-131	12	ACP	214.0	35	N	0	220	500	$65	$13,910	$1,391	M	$2,087		$0	10	$75,000		$0	$0		$0		$0	5	50%	$46,194	$138,581	$27,716	$27,716	$194,014		
33	258	TAPO CANYON RD	O15-101	O15-107	12	ACP	260.0	35	N	0	200	480	$65	$16,900	$1,690	M	$2,535		$0	6	$45,000		$0	$0		$0		$0	5	50%	$33,083	$99,188	$19,838	$19,838	$138,863	$489,353	33
34	215	ERRINGER RD	O10-132	O10-155	10	ACP*	330.4	36	N	0	320	525	$60	$19,824	$1,982	M	$2,974		$0		$0		$0	$0		$0		$0	4	37%	$9,169	$33,949	$6,790	$6,790	$47,528		
34	233	ERRINGER RD	O10-119	O10-132	10	ACP*	326.0	36	N	0	300	505	$60	$19,560	$1,956	M	$2,934		$0	2	$15,000		$0	$0		$0		$0	4	37%	$14,597	$54,047	$10,809	$10,809	$75,665		
34	234	COCHRAN ST	O10-154	O10-150	10	ACP*	256.0	36	N	0	300	505	$60	$15,360	$1,536	M	$2,304		$0	7	$52,500		$0	$0		$0		$0	4	37%	$26,529	$98,229	$19,646	$19,646	$137,521		
34	235	COCHRAN ST	O10-155	O10-154	10	ACP*	251.3	36	N	0	300	505	$60	$15,078	$1,508	M	$2,262		$0		$0		$0	$0		$0		$0	4	37%	$6,974	$25,821	$5,164	$5,164	$36,150		
34	254	ERRINGER RD	M10-101	M10-103	12	VCP	163.7	37	N	0	300	485	$65	$10,641	$1,064	M	$1,596		$0		$0		$0	$0		$0		$0	5	50%	$6,650	$19,951	$3,990	$3,990	$27,931		
34	261	ERRINGER RD	M10-116	M10-127	12	VCP	396.0	37	N	0	320	475	$65	$25,740	$2,574	M	$3,861		$0	1	$7,500		$0	$0		$0		$0	4	37%	$14,680	$54,355	$10,871	$10,871	$76,097		
34	264	HILLARY CT	N10-169	N10-171	12	VCP	185.6	37	Y	0	210	475	$65	$12,064	$1,206	M	$1,810		$0		$0		$0	$0		$0		$0	4	37%	$5,580	$20,660	$4,132	$4,132	$28,923	$429,815	34
35	195	UNK	P5-103	BNODE	33	ACP	516.8	44	Y	0	200	550	$264	$136,435	$68,218	T	$6,822		$0		$0		$0	$0		$0		$0	5	20%	$42,295	$253,769	$50,754	$50,754	$355,277		
35	200	PATRICIA AVE	M10-124	M10-123	33	ACP	425.0	35	N	0	240*	540	$264	$112,200	$89,760	M	$16,830		$0	5	$37,500		$0	$0		$0		$0	5	20%	$51,258	$307,548	$61,510	$61,510	$430,567		
35	236	E EASY ST	N8-127	N8-126	36	acp	400.0	35	N	0	230	505	$360	$144,000	$115,200	M	$21,600	Y	$14,400		$0		$0	$0		$0		$0	5	18%	$51,660	$346,860	$69,372	$69,372	$485,604		
35	249	PATRICIA AVE	M9-125B	M9-125C	36	ACP	97.0	35	N	0	240	490	$360	$34,920	$17,460	T	$1,746		$0		$0		$0	$0		$0		$0	5	18%	$9,472	$63,598	$12,720	$12,720	$89,037		
35	252	PATRICIA AVE	M9-118	M9-105	39	ACP	378.5	35	Y	0	140	490	$390	$147,615	$118,092	M	$22,142	Y	$14,762	1	$7,500		$0	$0	Y	$3,785		$0	5	18%	$54,932	$368,828	$73,766	$73,766	$516,359		
35	277	UNK	O6-120	O6-115	48	RCP	413.1	35	N	0	240	455	$480	$198,288	$99,144	T	$9,914		$0		$0		$0	$0		$0		$0	5	18%	$53,786	$361,132	$72,226	$72,226	$505,585	$2,382,429	35
36	204	UNK	L20-139	L20-133	10	ACP	340.0	33	Y	0	240*	535	$60	$20,400	$1,020	T	$1,020	Y	$0	4	$30,000		$0	$0		$0		$0	4	37%	$19,403	$71,843	$14,369	$14,369	$100,580		
36	263	KATHERINE RD.	L20-132A	L20-131	10	ACP	317.0	33	Y	0	220	475	$60	$19,020	$951	T	$951	Y	$0	3	$22,500		$0	$0		$0		$0	4	37%	$16,066	$59,488	$11,898	$11,898	$83,283		
36	270	KATHERINE RD	L20-135	L20-134	10	ACP	314.4	33	N	0	210	465	$60	$18,864	$1,886	M	$2,830	Y	$0	4	$30,000		$0	$0		$0		$0	4	37%	$19,825	$73,405	$14,681	$14,681	$102,766		
36	279	KATHERINE RD.	L20-131	L20-130	10	ACP	394.4	33	Y	0	200	455	$60	$23,664	$1,183	T	$1,183	Y	$0	10	$75,000		$0	$0		$0		$0	4	37%	$37,381	$138,412	$27,682	$27,682	$193,776		
36	165	KATHERINE RD.	L20-128	L20-127	12	ACP	255.1	33	Y	0	320	575	$65	$16,582	$829	T	$829	Y	$0		$0		$0	$0		$0		$0	4	37%	$6,749	$24,988	$4,998	$4,998	$34,984		
36	278	CHRISTINE AVE	L20-125	L20-117	12	ACP	252.6	33	Y	0	200	455	$65	$16,419	$821	T	$821	Y	$0	3	$22,500		$0	$0		$0		$0	4	37%	$15,008	$55,568	$11,114	$11,114	$77,796	$593,186	36
37	219	MADERA RD	O7-107	O7-108	12	PVC	244.3	16	N	0	440	520	$65	$15,880	$1,588	M	$2,382	Y	$0		$0		$0	$0		$0		$0	5	50%	$9,925	$29,774	$5,955	$5,955	$41,684		
37	229	MADERA RD	P7-103	P7-105	15	PVC	325.1	22	N	0	400	510	$120	$39,012	$11,704	M	$5,852		$0		$0		$0	$0		$0		$0	4	30%	$16,970	$73,538	$14,708	$14,708	$102,953		
37	255	MADERA RD	O7-105A	O7-106	12	PVC	117.0	16	N	0	400	480	$65	$7,605	$761	M	$1,141	Y	$0		$0		$0	$0		$0		$0	5	50%	$4,753	$14,259	$2,852	$2,852	$19,963		
37	274	MADERA RD	O7-106	O7-107	12	RCP	196.0	16	N	0	300	460	$65	$12,740	$1,274	M	$1,911	Y	$0		$0		$0	$0		$0		$0	5	50%	$7,963	$23,888	$4,778	$4,778	$33,443	$198,042	37
38	265	ROYAL AVE	M14-172	M14-171	12	ACP	424.5	31	Y	0	120	475	$65	$27,593	$2,759	M	$4,139		$0	3	$22,500		$0	$0		$0		$0	4	37%	$21,087	$78,077	$15,615	$15,615	$109,308		
38	268	ROYAL AVE	M14-171	M14-173	12	ACP	391.4	31	Y	75	140	470	$65	$25,441	$2,544	M	$3,816		$0		$0		$0	$75,000		$0		$0	4	37%	$39,516	$146,318	$29,264	$29,264	$204,845		
38	271	FIRST ST	K8-154	K8-134	12	ACP	396.0	30	N	0	210	465	$65	$25,740	$2,574	M	$3,861	Y	$0		$0		$0	$0		$0		$0	4	37%	$11,905	$44,080	$8,816	$8,816	$61,712		
38	272	FIRST ST	K8-163	K8-154	12	ACP	351.4	30	N	0	210	465	$65	$22,841	$2,284	M	$3,426	Y	$0		$0		$0	$0		$0		$0	4	37%	$10,564	$39,115	$7,823	$7,823	$54,761		
38	280	1ST ST	I8-101	I8-100	12	ACP	49.4	30	N	0	200	455	$65	$3,211	$321	M	$482		$0		$0		$0	$0		$0		$0	3	25%	$1,003	$5,017	$1,003	$1,003	$7,024		
38	286	FIRST ST	J8-146	J8-134	12	ACP	396.0	30	Y	0	120	450	$65	$25,740	$2,574	M	$3,861		$0		$0		$0	$0		$0		$0	3	25%	$8,044	$40,219	$8,044	$8,044	$56,306	$493,956	38
39	145	E EASY ST	O7-119	O7-117	12	ACP	393.4	43	N	0	240	595	$65	$25,571	$2,557	M	$3,836	Y	$0	2	$15,000		$0	$0		$0		$0	5	50%	$23,482	$70,446	$14,089	$14,089	$98,624		
39	222	CHRISTINE AVE	M20-132	M20-121	14	ACP	376.1	33	N	0	240*	520	$112	$42,123	$12,637	M	$6,318	Y	$2,106	8	$60,000	2	$800	$0		$0		$0	5	50%	$61,992	$185,977	$37,195	$37,195	$260,368		
39	228	STEARNS ST	P17-165	O17-101	12	PVC	236.7	25	N	0	400	510	$65	$15,386	$1,539	M	$2,308		$0	2	$15,000		$0	$0		$0		$0	4	37%	$12,666	$46,898	$9,380	$9,380	$65,657		
39	250	DARRAH AVE	M14-132	M14-146	20	ACP	334.4	29	Y	0	220	490	$160	$53,504	$21,402	T	$2,675		$0	12	$90,000		$0	$0		$0		$0	4	25%	$41,895	$209,476	$41,895	$41,895	$293,266		
39	251	DARRAH AVE	M14-146	M14-156	20	ACP	335.0	29	Y	0	220	490	$160	$53,600	$21,440	T	$2,680	Y	$2,680	13	$97,500		$0	$0		$0		$0	4	25%	$44,475	$222,375	$44,475	$44,475	$311,325		
39	175	DARRAH AVE	M14-179	L14-105	20	ACP	332.5	29	N	0	300	570	$160	$53,200	$31,920	M	$7,980		$0	4	$30,000		$0	$0		$0		$0	4	25%	$30,775	$153,875	$30,775	$30,775	$215,425		
39	220	DARRAH AVE	M14-166	M14-176	20	ACP	238.3	29	N	0	300	520	$160	$38,128	$15,251	T	$1,906	Y	$1,906	6	$45,000		$0	$0		$0		$0	4	25%	$25,548	$127,740	$25,548	$25,548	$178,836		
39	269	ROYAL AVE	L8-122	L8-120	18	RCP	370.0	31	Y	0	220	465	$144	$53,280	$31,968	M	$7,992	Y	$2,664	5	$37,500	2	$800	$0		$0		$0	4	25%	$33,551	$167,755	$33,551	$33,551	$234,857		
39	273	GALENA AVE	O13-107	O13-113	12	TRUSS	139.3	21	Y	0	300	460	$65	$9,055	$905	M	$1,358		$0		$0		$0	$0		$0		$0	4	37%	$4,188	$15,506	$3,101	$3,101	$21,708		
39	276	UNK	M15-101	M15-108	21	ACP	274.8	35	Y	0	100	460	$168	$46,166	$27,700	M	$6,925		$0		$0		$0	$0		$0		$0	5	30%	$24,237	$105,029	$21,006	$21,006	$147,040		
39	283	UNK	O6-130	O6-131	20	ACP	150.0	43	N	0	120	450	$160	$24,000	$9,600	T	$1,200		$0	1	$7,500	1	$400	$0		$0		$0	5	30%	$12,810	$55,510	$11,102	$11,102	$77,714		
39	284	UNK	O6-133	O6-130	20	ACP	368.0	43	N	0	120	450	$160	$58,560	$23,424	T	$2,928	Y	$2,928		$0		$0	$0		$0		$0	5	30%	$26,352	$114,192	$22,838	$22,838	$159,869	$2,064,689	39
			Total Estimated Length:				43,166.5																									Total Estimated Costs[e]:		$22,443,000		

Notes:

a) Modified PACP score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.

b) Total score is the sum of the Modified PACP score and all criticality factors.

c) Costs developed from Unit Cost table.

d) Total Approximate Construction Costs are the sum of the CIPP Construction Cost plus all other costs.

e) Total Costs rounded to the nearest $1,000.

* Epoxy-lined ACP

* Video was inconclusive and Modified PACP Score represents a minimum score based on the portion of the segment that was viewable.

Table 2-4: 10 to 20 Years Rehabilitation - Estimate of Probable Cost

	Pipe Data										Costs and Cost Modifiers																			
														Traffic Control		Groundwater		Laterals				Spot Repairs		Infiltration		Risk Assessment					
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)
287	TAPO ST	O16-102	O16-106	18	ACP	337.6	35	Y	140	445	$144	$48,614	$29,169	M	$7,292		$0	2	$15,000		$0		$0		$0		FALSE	$0	$100,075	$20,015	$20,015	$140,105
288	FIRST ST	L8-118	L8-106	24	ACP	309.0	44	Y	40	445	$192	$59,328	$35,597	M	$8,899	Y	$5,933	4	$30,000	2	$800		$0		$0		FALSE	$0	$140,557	$28,111	$28,111	$196,780
289	N WOOD RANCH PKWY	I5-124	I5-123	16	CIP	98.3	20	N	300	440	$128	$12,582	$2,516	T	$629		$0		$0		$0		$0		$0		FALSE	$0	$15,728	$3,146	$3,146	$22,019
290	UNK	M14-156	M14-162	20	ACP	180.0	29	N	220	440	$160	$28,800	$11,520	T	$1,440		$0	3	$22,500		$0		$0		$0		FALSE	$0	$64,260	$12,852	$12,852	$89,964
291	ERRINGER RD	P10-123	P10-128	10	ACP*	75.0	15	Y	200	440	$60	$4,500	$450	M	$675		$0	1	$7,500		$0		$0		$0		FALSE	$0	$13,125	$2,625	$2,625	$18,375
292	STRATHEARN PL	N6-101A	O6-136	30	DIP	151.0	44	Y	140	440	$240	$36,240	$14,496	T	$1,812		$0	2	$15,000		$0		$0	Y	$1,510		FALSE	$0	$69,058	$13,812	$13,812	$96,681
293	E EASY ST	N7-113	N7-105	39	acp	412.0	35	N	140	440	$390	$160,680	$128,544	M	$24,102	Y	$16,068		$0		$0		$0		$0		FALSE	$0	$329,394	$65,879	$65,879	$461,152
294	ERRINGER RD	M10-134	M10-141	16	ACP	268.8	43	N	110	440	$128	$34,406	$10,322	M	$5,161		$0		$0		$0		$0		$0		FALSE	$0	$49,889	$9,978	$9,978	$69,845
295	STOW ST	M18-121	M18-129	10	ACP	21.1	41	N	110	440	$60	$1,266	$127	M	$190		$0		$0		$0		$0		$0		FALSE	$0	$1,583	$317	$317	$2,216
296	LOS ANGELES AVE	M19-124	M19-123	18	ACP	507.0	35	Y	110	440	$144	$73,008	$43,805	M	$10,951		$0		$0		$0		$0		$0		FALSE	$0	$127,764	$25,553	$25,553	$178,870
297	UNK	O6-125	O6-120	48	RCP	320.0	35	N	220	435	$480	$153,600	$76,800	T	$7,680		$0		$0		$0		$0		$0		FALSE	$0	$238,080	$47,616	$47,616	$333,312
298	E EASY ST	N8-129	N8-128	36	acp	199.0	35	N	120	435	$360	$71,640	$57,312	M	$10,746	Y	$7,164		$0		$0		$0		$0		FALSE	$0	$146,862	$29,372	$29,372	$205,607
299	UNK	P6-109	P6-101	48	ACP	471.1	35	Y	100	435	$480	$226,128	$113,064	T	$11,306		$0		$0		$0		$0		$0		FALSE	$0	$350,498	$70,100	$70,100	$490,698
300	ROYAL AVE	L10-118	L10-117	24	ACP	296.7	45	Y	30	435	$192	$56,966	$34,180	M	$8,545		$0	2	$15,000		$0		$0		$0		FALSE	$0	$114,691	$22,938	$22,938	$160,568
301	ROSALIE ST	M14-106	M14-106A	10	PVC	48.0	42	Y	210	430	$60	$2,880	$144	T	$144		$0	2	$15,000		$0		$0		$0		FALSE	$0	$18,168	$3,634	$3,634	$25,435
302	KATHERINE RD.	L20-132	L20-132A	10	ACP	19.0	33	N	200	430	$60	$1,140	$57	T	$57		$0	1	$7,500		$0		$0		$0		FALSE	$0	$8,754	$1,751	$1,751	$12,256
303	ROYAL AVE	L14-102	L14-105	12	ACP	182.6	31	Y	100	430	$65	$11,869	$1,187	M	$1,780		$0	1	$7,500		$0		$0		$0		FALSE	$0	$22,336	$4,467	$4,467	$31,271
304	ROYAL AVE	M15-151	M14-172	12	ACP	154.0	31	Y	100	430	$65	$10,010	$1,001	M	$1,502		$0		$0		$0		$0		$0		FALSE	$0	$12,513	$2,503	$2,503	$17,518
305	FIRST ST	J8-154	J8-146	12	ACP	396.0	30	Y	100	430	$65	$25,740	$2,574	M	$3,861		$0		$0		$0		$0		$0		FALSE	$0	$32,175	$6,435	$6,435	$45,045
306	YOSEMITE AVE	L19-101	L19-100	14	ACP	280.3	42	Y	50	430	$112	$31,394	$9,418	M	$4,709	Y	$1,570		$0		$0		$0		$0		FALSE	$0	$47,090	$9,418	$9,418	$65,927
307	STOW ST	M18-152	M18-171	10	ACP	400.9	41	Y	50	430	$60	$24,054	$2,405	M	$3,608	Y	$0		$0		$0		$0		$0		FALSE	$0	$30,067	$6,013	$6,013	$42,094
308	UNK	O6-121	O6-118	33	ACP	108.0	44	Y	40	430	$264	$28,512	$14,256	T	$1,426		$0		$0		$0		$0		$0		FALSE	$0	$44,194	$8,839	$8,839	$61,871
309	SINALOA RD	M8-132	M8-121	15	rcp	373.9	31	Y	230	425	$120	$44,868	$8,974	T	$2,243	Y	$2,243		$0		$0		$0		$0		FALSE	$0	$58,328	$11,666	$11,666	$81,660
310	KADOTA ST	P16-166	O16-101	10	ACP	175.4	35	N	220	425	$60	$10,524	$526	T	$526		$0	3	$22,500	1	$400		$0		$0		FALSE	$0	$34,476	$6,895	$6,895	$48,267
311	E LOS ANGELES AVE	M16-114	M16-114A	24	ACP	293.0	35	Y	120	425	$192	$56,256	$33,754	M	$8,438		$0	2	$15,000		$0		$0		$0		FALSE	$0	$113,448	$22,690	$22,690	$158,827
312	E LOS ANGELES AVE	M17-110	M17-109	24	ACP	105.1	35	Y	120	425	$192	$20,179	$12,108	M	$3,027		$0	3	$22,500		$0		$0		$0		FALSE	$0	$57,814	$11,563	$11,563	$80,939
313	FIRST ST	I8-100	J8-154	12	ACP	396.0	30	Y	120	425	$65	$25,740	$2,574	M	$3,861		$0		$0		$0		$0		$0		FALSE	$0	$32,175	$6,435	$6,435	$45,045
314	TAPO CANYON RD	Q15-112	Q15-120	12	ACP	328.2	30	Y	120	425	$65	$21,333	$2,133	M	$3,200		$0		$0		$0		$0		$0		FALSE	$0	$26,666	$5,333	$5,333	$37,333
315	FIRST ST	L8-106	M8-180	24	ACP	306.0	44	Y	20	425	$192	$58,752	$35,251	M	$8,813	Y	$5,875	1	$7,500		$0		$0		$0		FALSE	$0	$116,191	$23,238	$23,238	$162,668
316	FIRST ST	L8-129	L8-118	24	ACP	274.0	44	Y	20	425	$192	$52,608	$31,565	M	$7,891	Y	$5,261	3	$22,500		$0	1	$8,000		$0		FALSE	$0	$127,825	$25,565	$25,565	$178,955
317	ROYAL AVE	L9-139	L8-132	24	ACP	406.0	44	Y	20	425	$192	$77,952	$46,771	M	$11,693	Y	$7,795	5	$37,500	1	$400		$0		$0		FALSE	$0	$182,111	$36,422	$36,422	$254,956
318	W EASY ST	O7-117	O7-115	20	ACP	353.3	43	Y	20*	425	$160	$56,528	$33,917	M	$8,479	Y	$2,826		$0		$0		$0		$0		FALSE	$0	$101,750	$20,350	$20,350	$142,451
319	N WOOD RANCH PKWY	I5-113	I5-107	16	DIP	75.2	20	N	340	420	$128	$9,626	$1,925	T	$481		$0		$0		$0		$0		$0		FALSE	$0	$12,032	$2,406	$2,406	$16,845
320	MADERA RD	J6-112	J6-100	15	VCP	302.7	20	N	300	420	$120	$36,324	$10,897	M	$5,449		$0		$0		$0		$0		$0		FALSE	$0	$52,670	$10,534	$10,534	$73,738
321	COUNTRY CLUB DR	J6-131	J6-120	18	VCP	346.0	20	Y	300	420	$144	$49,824	$19,930	T	$2,491		$0		$0		$0		$0		$0		FALSE	$0	$72,245	$14,449	$14,449	$101,143
322	E EASY ST PARKING LOT	N7-119	N7-112	12	RCP	396.0	43	N	200	420	$65	$25,740	$1,287	T	$1,287	Y	$0	6	$45,000		$0		$0		$0		FALSE	$0	$73,314	$14,663	$14,663	$102,640
323	DARRAH AVE	M14-162	M14-166	20	ACP	155.0	29	N	200	420	$160	$24,800	$9,920	T	$1,240	Y	$1,240		$0		$0		$0		$0		FALSE	$0	$37,200	$7,440	$7,440	$52,080
324	LOS ANGELES AVE	M18-132	M18-131	15	ACP	446.0	35	N	140	420	$120	$53,520	$16,056	M	$8,028		$0		$0		$0		$0	Y	$4,460		FALSE	$0	$82,064	$16,413	$16,413	$114,890
325	LOS ANGELES AVE	M18-127	M18-126	21	ACP	453.0	34	N	140	420	$168	$76,104	$45,662	M	$11,416		$0		$0		$0		$0	Y	$4,530		FALSE	$0	$137,712	$27,542	$27,542	$192,797
326	E EASY ST	N8-126	N8-124	36	acp	142.0	36	N	120	420	$360	$51,120	$40,896	M	$7,668	Y	$5,112	1	$7,500		$0		$0		$0		FALSE	$0	$112,296	$22,459	$22,459	$157,214
327	E EASY ST	N8-123	N7-122	36	acp	396.5	35	N	120	420	$360	$142,740	$114,192	M	$21,411	Y	$14,274	1	$7,500	1	$400		$0		$0		FALSE	$0	$300,517	$60,103	$60,103	$420,724
328	E EASY ST	N8-124	N8-123	36	acp	252.0	35	N	120	420	$360	$90,720	$72,576	M	$13,608	Y	$9,072		$0		$0		$0		$0		FALSE	$0	$185,976	$37,195	$37,195	$260,366
329	E EASY ST	O7-116	O7-112	36	ACP	527.5	35	N	120	420	$360	$189,900	$151,920	M	$28,485	Y	$18,990		$0		$0		$0		$0		FALSE	$0	$389,295	$77,859	$77,859	$545,013
330	HILLDALE AVE	M12-100	M12-105	10	ACP	52.0	42	N	100	420	$60	$3,120	$156	T	$156		$0		$0		$0		$0		$0		FALSE	$0	$3,432	$686	$686	$4,805
331	ERRINGER ST	L10-112	L10-130	20	ACP	362.6	43	N	40*	420	$160	$58,016	$34,810	M	$8,702		$0		$0		$0		$0		$0		FALSE	$0	$101,528	$20,306	$20,306	$142,139
332	ERRINGER RD	L10-100	L10-106	20	ACP	426.1	43	Y	0	420	$160	$68,176	$40,906	M	$10,226		$0		$0		$0		$0		$0		FALSE	$0	$119,308	$23,862	$23,862	$167,031
333	SINALOA RD	M8-163	M8-137	15	rcp	375.0	31	Y	220	415	$120	$45,000	$9,000	T	$2,250	Y	$2,250	2	$15,000	1	$400		$0		$0		FALSE	$0	$73,900	$14,780	$14,780	$103,460
334	E EASY ST	N7-105B	O7-118	39	acp	392.0	35	N	140	415	$390	$152,880	$122,304	M	$22,932		$0		$0		$0		$0		$0		FALSE	$0	$298,116	$59,623	$59,623	$417,362
335	UNK	M14-131	M14-130	20	ACP	311.2	43	Y	0	415	$160	$49,792	$19,917	T	$2,490		$0	1	$7,500		$0		$0		$0		FALSE	$0	$79,698	$15,940	$15,940	$111,578
336	SUNTREE LN	M17-119	M17-116	18	ACP	400.0	42	Y	0	415	$144	$57,600	$23,040	T	$2,880		$0		$0		$0		$0		$0		FALSE	$0	$83,520	$16,704	$16,704	$116,928
337	E LOS ANGELES AVE	M17-121	M17-119	18	ACP	400.0	42	Y	0	415	$144	$57,600	$23,040	T	$2,880		$0		$0		$0		$0		$0		FALSE	$0	$83,520	$16,704	$16,704	$116,928
338	UNK	J7-127	J7-117	12	TRUSS	258.3	26	Y	240	410	$65	$16,789	$839	T	$839		$0	1	$7,500		$0		$0		$0		FALSE	$0	$25,968	$5,194	$5,194	$36,356
339	STEARNS ST	N17-131	N17-135	18	ACP*	63.0	25	N	240	410	$144	$9,072	$5,443	M	$1,361		$0		$0		$0		$0		$0		FALSE	$0	$15,876	$3,175	$3,175	$22,226
340	LOS ANGELES AVE	M18-131	M18-129	15	ACP	320.0	35	N	130	410	$120	$38,400	$11,520	M	$5,760		$0		$0		$0		$0		$0		FALSE	$0	$55,680	$11,136	$11,136	$77,952
341	N VERA CT	M19-113	M19-109	10	ACP	143.6	42	Y	40	410	$60	$8,616	$431	T	$431	Y	$0	1	$7,500		$0		$0		$0		FALSE	$0	$16,978	$3,396	$3,396	$23,769
342	ANASTASIA AVE	M20-117	M19-112	10	ACP	129.0	42	Y	40	410	$60	$7,740	$387	T	$387	Y	$0	1	$7,500		$0		$0		$0		FALSE	$0	$16,014	$3,203	$3,203	$22,420
343	E LOS ANGELES AVE	M16-102	M16-103	15	ACP	59.0	43	N	20	410	$120	$7,080	$2,124	M	$1,062		$0		$0		$0		$0		$0		FALSE	$0	$10,266	$2,053	$2,053	$14,372
344	LARCH ST	N10-140	N10-139	12	VCP	164.3	37	N	300	405	$65	$10,680	$534	T	$534		$0	2	$15,000		$0		$0		$0		FALSE	$0	$26,747	$5,349	$5,349	$37,446
345	HIETTER AVE	M14-102	M14-113	12	VCP	92.6	36	N	300	405	$65	$6,019	$301	T	$301		$0	4	$30,000		$0		$0		$0		FALSE	$0	$36,621	$7,324	$7,324	$51,269
346	SINALOA RD	L8-109	L8-101	15	rcp	395.0	31	Y	210	405	$120	$47,400	$9,480	T	$2,370	Y	$2,370	2	$15,000		$0		$0		$0		FALSE	$0	$76,620	$15,324	$15,324	$107,268
347	STOW ST	N18-123	N18-135	10	VCP	350.0	37	Y	200	405	$60	$21,000	$2,100	M	$3,150		$0	5	$37,500		$0		$0		$0		FALSE	$0	$63,750	$12,750	$12,750	$89,250
348	E LOS ANGELES AVE	M16-109	M15-112	24	ACP	485.5	35	Y	100	405	$192	$93,216	$55,930	M	$13,982		$0	1	$7,500		$0		$0		$0		FALSE	$0	$170,628	$34,126	$34,126	$238,879
349	E LOS ANGELES AVE	M16-114A	M16-114B	24	ACP	450.0	35	Y	100	405	$192	$86,400	$51,840	M	$12,960		$0		$0		$0		$0		$0		FALSE	$0	$151,200	$30,240	$30,240	$211,680
350	ROYAL AVE	M14-173	M14-178	12	ACP	434.9	31	Y	100	405	$65	$28,268	$2,827	M	$4,240		$0		$0		$0		$0		$0		FALSE	$0	$35,336	$7,067	$7,067	$49,470
351	SEQUOIA AVE	O13-111A	O13-114	18	ACP	295.0	30	Y	100	405	$144	$42,480	$25,488	M	$6,372		$0		$0		$0		$0		$0		FALSE	$0	$74,340	$14,868	$14,868	$104,076
352	SYCAMORE DR	M12-131	M12-141	14	ACP	396.0	42	Y	0	405	$112	$44,352	$13,306	M	$6,653		$0	2	$15,000		$0		$0		$0		FALSE	$0	$79,310	$15,862	$15,862	$111,035
353	UNK	O6-131	O6-127	20	DIP	36.6	21	N	320	400	$160	$5,856	$2,342	T	$293		$0		$0		$0		$0		$0		FALSE	$0	$8,491	$1,698	$1,698	$11,888
354	TIERRA REJADA RD	N6-131	N6-132	8	TRUSS	370.4	22	Y	310	400	$50	$18,520	$926	T	$926		$0		$0		$0		$0		$0		FALSE	$0	$20,372	$4,074	$4,074	$28,521
355	CORTO ST	K13-105	L13-154	12	DIP	202.5	16	Y	300	400	$65	$13,163	$658	T	$658		$0		$0		$0		$0		$0		FALSE	$0	$14,479	$2,896	$2,896	$20,270
356	UNK	J5-129	J5-125	18	VCP	288.1	20	Y	220	400	$144	$41,486	$16,595	T	$2,074		$0	5	$37,500		$0		$0		$0		FALSE	$0	$97,655	$19,531	$19,531	$136,717
357	LOS ANGELES AVE	M19-123	M18-132	15	ACP	438.0	35	N	120	400	$120	$52,560	$15,768	M	$7,884		$0	1	$7,500		$0		$0		$0		FALSE	$0	$83,712	$16,742	$16,742	$117,197
358	ANGELA ST	N15-101	N15-100	21	ACP	320.0	35	Y	120	400	$168	$53,760	$21,504	T	$2,688		$0	1	$7,500	1	$400		$0		$0		FALSE	$0	$85,852	$17,170	$17,170	$120,193
359	TAPO CANYON RD	P15-122	P15-125	12	ACP	335.0	35	N	120	400	$65	$21,775	$2,178	M	$3,266		$0	6	$45,000	5	$2,000		$0		$0		FALSE	$0	$74,219	$14,844	$14,844	$103,906
360	FIRST ST	J8-125	J8-108	12	ACP	309.5	30	N	120	400	$65	$20,118	$2,012	M	$3,018		$0		$0		$0		$0		$0		FALSE	$0	$25,147	$5,029	$5,029	$35,206
361	ROYAL AVE	L10-116	L10-115	24	ACP	203.6	45	Y	20	400	$192	$39,091	$23,455	M	$5,864		$0	1	$7,500		$0		$0		$0		FALSE	$0	$75,910	$15,182	$15,182	$106,273
362	ROYAL AVE	L10-117	L10-116	24	ACP	300.0	45	Y	20	400	$192	$57,600	$34,560	M	$8,640		$0	1	$7,500		$0		$0		$0		FALSE	$0	$108,300	$21,660	$21,660	$151,620
363	UNK	M18-171	M18-170	16	ACP	379.1	42	Y	20	400	$128	$48,525	$14,557	M	$7,279	Y	$2,426	7	$52,500		$0		$0		$0		FALSE	$0	$125,287	$25,057	$25,057	$175,402
364	STOW ST	N18-135	N18-145	10	RCP	350.0	38	N	200	395	$60	$21,000	$2,100	M	$3,150		$0	4	$30,000		$0		$0		$0		FALSE	$0	$56,250	$11,250	$11,250	$78,750

	Pipe Data										Costs and Cost Modifiers																			
														Traffic Control		Groundwater		Laterals				Spot Repairs		Infiltration		Risk Assessment					
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)
445	CHRISTINE AVE	L20-117	L20-113	12	ACP	207.5	33	Y	100	355	$65	$13,488	$674	T	$674	Y	$0		$0		$0		$0		$0		FALSE	$0	$14,836	$2,967	$2,967	$20,771
446	E LOS ANGELES AVE	M16-108	M16-113	24	ACP	191.0	35	Y	20	355	$192	$36,672	$22,003	M	$5,501		$0		$0		$0		$0		$0		FALSE	$0	$64,176	$12,835	$12,835	$89,846
447	UNK	M12-101	M12-107	10	ACP	142.8	42	Y	0	355	$60	$8,568	$428	T	$428		$0	7	$52,500		$0		$0		$0		FALSE	$0	$61,925	$12,385	$12,385	$86,695
448	HEYWOOD ST	M12-155	M12-148	14	ACP	394.5	42	N	0	355	$112	$44,184	$13,255	M	$6,628		$0		$0		$0		$0		$0		FALSE	$0	$64,067	$12,813	$12,813	$89,694
449	E LOS ANGELES AVE	M17-122	M17-121	18	ACP	400.0	42	Y	0	355	$144	$57,600	$23,040	T	$2,880		$0		$0		$0		$0		$0		FALSE	$0	$83,520	$16,704	$16,704	$116,928
450	E LOS ANGELES AVE	M17-125	M17-122	18	ACP	400.0	42	Y	0	355	$144	$57,600	$23,040	T	$2,880		$0		$0		$0		$0		$0		FALSE	$0	$83,520	$16,704	$16,704	$116,928
451	UNK	M18-166	M18-163	16	ACP	378.4	42	Y	0	355	$128	$48,435	$9,687	T	$2,422	Y	$2,422		$0		$0		$0		$0		FALSE	$0	$62,966	$12,593	$12,593	$88,152
452	MARICOPA DR	P18-127	P18-126	10	PVC	136.0	26	Y	240	350	$60	$8,160	$408	T	$408		$0	2	$15,000		$0		$0		$0		FALSE	$0	$23,976	$4,795	$4,795	$33,566
453	FIRST ST	N8-103	N8-106	12	DIP	140.5	17	N	210	350	$65	$9,133	$913	M	$1,370		$0		$0		$0		$0		$0		FALSE	$0	$11,416	$2,283	$2,283	$15,982
454	TEXAS AVE	P17-106	P17-110	15	ACP	382.0	35	N	120	350	$120	$45,840	$9,168	T	$2,292		$0	3	$22,500		$0		$0		$0		FALSE	$0	$79,800	$15,960	$15,960	$111,720
455	E EASY ST	N8-141	N8-136	33	ACP	359.0	34	N	50	350	$264	$94,776	$75,821	M	$14,216	Y	$9,478	1	$7,500		$0		$0	Y	$3,590		FALSE	$0	$205,381	$41,076	$41,076	$287,533
456	KITSY LN	M19-177A	M19-188	10	ACP	28.0	42	N	30	350	$60	$1,680	$84	T	$84		$0		$0		$0		$0		$0		FALSE	$0	$1,848	$370	$370	$2,587
457	ROYAL AVE	L10-115	L10-114	24	ACP	406.0	45	N	20	350	$192	$77,952	$46,771	M	$11,693		$0	2	$15,000		$0		$0		$0		FALSE	$0	$151,416	$30,283	$30,283	$211,982
458	ROYAL AVE	L10-120	L10-118	24	ACP	301.2	45	N	20	350	$192	$57,830	$34,698	M	$8,675		$0	3	$22,500		$0		$0		$0		FALSE	$0	$123,703	$24,741	$24,741	$173,184
459	ROYAL AVE	L9-145A	L9-144	24	ACP	50.0	45	N	20	350	$192	$9,600	$5,760	M	$1,440	Y	$960	4	$30,000		$0		$0		$0		FALSE	$0	$47,760	$9,552	$9,552	$66,864
460	ROYAL AVE	L9-146	L9-145	24	ACP	296.0	45	N	20	350	$192	$56,832	$34,099	M	$8,525	Y	$5,683	5	$37,500		$0		$0		$0		FALSE	$0	$142,639	$28,528	$28,528	$199,895
461	ROYAL AVE	L9-147	L9-146	24	ACP	320.0	45	N	20	350	$192	$61,440	$36,864	M	$9,216	Y	$6,144	12	$90,000		$0		$0		$0		FALSE	$0	$203,664	$40,733	$40,733	$285,130
462	ROYAL AVE	L9-145	L9-145A	24	ACP	116.0	45	N	20	350	$192	$22,272	$13,363	M	$3,341		$0		$0		$0		$0		$0		FALSE	$0	$38,976	$7,795	$7,795	$54,566
463	BOLIVAR CT	M14-104	M14-107	12	ACP	242.0	42	Y	20	350	$65	$15,730	$787	T	$787		$0		$0		$0		$0		$0		FALSE	$0	$17,303	$3,461	$3,461	$24,224
464	KATHERINE ST	M18-169	M18-168	16	ACP	243.6	42	Y	20'	350	$128	$31,181	$6,236	T	$1,559	Y	$1,559		$0		$0		$0		$0		FALSE	$0	$40,535	$8,107	$8,107	$56,749
465	N VERA CT	M19-109	M19-108	10	ACP	303.5	42	Y	20	350	$60	$18,210	$911	T	$911		$0		$0		$0		$0		$0		FALSE	$0	$20,031	$4,006	$4,006	$28,043
466	ALAMO ST	P16-146	P16-145	15	ACP	446.1	35	Y	20	350	$120	$53,532	$16,060	M	$8,030		$0		$0		$0		$0		$0		FALSE	$0	$77,621	$15,524	$15,524	$108,670
467	ROYAL AVE	L13-133	L13-132	20	ACP	275.5	29	N	100	345	$160	$44,080	$26,448	M	$6,612		$0	4	$30,000		$0		$0		$0		FALSE	$0	$107,140	$21,428	$21,428	$149,996
468	COCHRAN ST	O15-134	O15-135	12	ACP	165.0	35	Y	40'	345	$65	$10,725	$1,073	M	$1,609		$0	1	$7,500		$0		$0		$0		FALSE	$0	$20,906	$4,181	$4,181	$29,269
469	REBECCA ST	O15-135	O15-147	12	ACP	300.0	35	Y	40	345	$65	$19,500	$1,950	M	$2,925		$0	2	$15,000		$0		$0		$0		FALSE	$0	$39,375	$7,875	$7,875	$55,125
470	TAPO ST	O16-106	O16-115	18	ACP	319.0	35	Y	40	345	$144	$45,936	$27,562	M	$6,890		$0	2	$15,000		$0		$0		$0		FALSE	$0	$95,388	$19,078	$19,078	$133,643
471	TAPO ST	P16-156	O16-102	18	ACP	333.0	35	Y	40	345	$144	$47,952	$28,771	M	$7,193		$0		$0		$0		$0		$0		FALSE	$0	$83,916	$16,783	$16,783	$117,482
472	STRATHEARN PL	N6-103A	N6-101	27	ACP	271.0	44	N	20	345	$216	$58,536	$23,414	T	$2,927		$0	1	$7,500		$0		$0		$0		FALSE	$0	$92,377	$18,475	$18,475	$129,328
473	STRATHEARN PL	N7-132	N6-137	27	ACP	356.0	44	N	20	345	$216	$76,896	$30,758	T	$3,845	Y	$7,690	2	$15,000		$0		$0		$0		FALSE	$0	$134,189	$26,838	$26,838	$187,864
474	E LOS ANGELES AVE	M9-104	M9-103	39	ACP	310.0	35	Y	20	345	$390	$120,900	$96,720	M	$18,135	Y	$12,090		$0		$0		$0		$0		FALSE	$0	$247,845	$49,569	$49,569	$346,983
475	E EASY ST	N7-105A	N7-105B	39	acp	465.0	35	Y	20	345	$390	$181,350	$145,080	M	$27,203	Y	$18,135		$0		$0		$0		$0		FALSE	$0	$371,768	$74,354	$74,354	$520,475
476	E LOS ANGELES AVE	M13-115	M13-114	36	ACP	497.0	34	Y	20	345	$360	$178,920	$143,136	M	$26,838	Y	$17,892		$0		$0		$0		$0		FALSE	$0	$366,786	$73,357	$73,357	$513,500
477	UNK	M17-127	M17-126	16	ACP	183.0	42	N	0	345	$128	$23,424	$4,685	T	$1,171	Y	$1,171		$0		$0		$0		$0		FALSE	$0	$30,451	$6,090	$6,090	$42,632
478	N WOOD RANCH PKWY	H5-119	H5-113	12	VCP	348.6	19	N	300	340	$65	$22,659	$1,133	T	$1,133		$0		$0		$0		$0		$0		FALSE	$0	$24,925	$4,985	$4,985	$34,895
479	SEQUOIA AVE	O13-156	O13-166	15	VCP	141.8	19	Y	200	340	$120	$17,016	$5,105	M	$2,552		$0		$0		$0		$0		$0		FALSE	$0	$24,673	$4,935	$4,935	$34,542
480	N WOOD RANCH PKWY	I5-118	I5-116	16	CIP	104.8	20	N	200	340	$128	$13,414	$2,683	T	$671		$0		$0		$0		$0		$0		FALSE	$0	$16,768	$3,354	$3,354	$23,475
481	LEMON DR	P14-107	P14-116	15	ACP	308.0	24	N	120	340	$120	$36,960	$11,088	M	$5,544		$0	3	$22,500		$0		$0		$0		FALSE	$0	$76,092	$15,218	$15,218	$106,529
482	AVENIDA SIMI	Q14-144	Q14-143	15	ACP	269.9	20	Y	120	340	$120	$32,388	$6,478	T	$1,619		$0	4	$30,000		$0		$0		$0		FALSE	$0	$70,485	$14,097	$14,097	$98,679
483	E EASY ST	N8-138	N8-139	33	ACP	271.0	35	N	40	340	$264	$71,544	$57,235	M	$10,732	Y	$7,154	3	$22,500		$0		$0	Y	$2,710		FALSE	$0	$171,875	$34,375	$34,375	$240,625
484	E EASY ST	N8-137	N8-138	33	ACP	96.0	32	N	40	340	$264	$25,344	$20,275	M	$3,802	Y	$2,534		$0		$0		$0	Y	$960		FALSE	$0	$52,915	$10,583	$10,583	$74,081
485	HEYWOOD ST	M10-135	M10-134	16	ACP	276.9	43	N	10	340	$128	$35,443	$10,633	M	$5,316		$0	2	$15,000		$0		$0		$0		FALSE	$0	$66,393	$13,279	$13,279	$92,950
486	DAMON ST	L19-100	M18-185	14	ACP	347.6	42	Y	10	340	$112	$38,931	$7,786	T	$1,947	Y	$1,947		$0		$0		$0		$0		FALSE	$0	$50,611	$10,122	$10,122	$70,855
487	ANASTASIA AVE	M20-108	M20-107	10	ACP	274.0	42	Y	10	340	$60	$16,440	$822	T	$822		$0		$0		$0		$0		$0		FALSE	$0	$18,084	$3,617	$3,617	$25,318
488	INDIAN HILLS DR	P17-112	P17-117	15	ACP	229.7	27	Y	40	335	$120	$27,564	$8,269	M	$4,135		$0		$0		$0		$0		$0		FALSE	$0	$39,968	$7,994	$7,994	$55,955
489	TAPO ST	O16-128	O16-134	21	ACP	352.2	35	Y	30	335	$168	$59,170	$35,502	M	$8,875		$0	1	$7,500		$0		$0		$0		FALSE	$0	$111,047	$22,209	$22,209	$155,466
490	E LOS ANGELES AVE	M17-107	M17-106	24	ACP	438.0	34	Y	30	335	$192	$84,096	$50,458	M	$12,614		$0		$0		$0		$0		$0		FALSE	$0	$147,168	$29,434	$29,434	$206,035
491	UNK	J7-104	J7-103	12	TRUSS	361.3	26	Y	220	330	$65	$23,484	$1,174	T	$1,174		$0		$0		$0		$0		$0		FALSE	$0	$25,833	$5,167	$5,167	$36,166
492	FIRST ST	N9-112	N9-122	12	PVC	372.5	21	Y	140	330	$65	$24,213	$2,421	M	$3,632	Y	$0		$0		$0		$0		$0		FALSE	$0	$30,266	$6,053	$6,053	$42,372
493	ALAMO ST	P14-115	P14-114	18	ACP	236.0	24	N	110	330	$144	$33,984	$20,390	M	$5,098		$0		$0		$0		$0		$0		FALSE	$0	$59,472	$11,894	$11,894	$83,261
494	REBECCA ST	N15-125	N15-132	21	ACP	272.0	35	N	100	330	$168	$45,696	$18,278	T	$2,285		$0	3	$22,500		$0		$0		$0		FALSE	$0	$88,769	$17,752	$17,752	$124,263
495	KATHERINE RD.	L20-134	L20-133	10	ACP	314.4	33	N	100	330	$60	$18,864	$943	T	$943	Y	$0	4	$30,000		$0		$0		$0		FALSE	$0	$50,750	$10,150	$10,150	$71,051
496	5TH ST	M8-130	M8-117	24	ACP	366.0	44	Y	0	330	$192	$70,272	$28,109	T	$3,514	Y	$7,027	1	$7,500		$0		$0		$0		FALSE	$0	$116,422	$23,284	$23,284	$162,990
497	HILLDALE AVE	M12-103	M12-102	10	ACP	271.4	42	Y	0	330	$60	$16,284	$814	T	$814		$0	1	$7,500		$0		$0		$0		FALSE	$0	$25,412	$5,082	$5,082	$35,577
498	SUNTREE LN	M17-130	M17-125	18	ACP	257.8	42	Y	0	330	$144	$37,123	$14,849	T	$1,856		$0	1	$7,500		$0		$0		$0		FALSE	$0	$61,329	$12,266	$12,266	$85,860
499	YOSEMITE AVE	M19-191	L19-101	14	ACP	34.1	42	N	0	330	$112	$3,819	$1,146	M	$573	Y	$191	3	$22,500		$0		$0		$0		FALSE	$0	$28,229	$5,646	$5,646	$39,520
500	ROYAL AVE	L14-114	L14-119	20	ACP	396.0	31	Y	0	330	$160	$63,360	$38,016	M	$9,504		$0	6	$45,000		$0		$0		$0		FALSE	$0	$155,880	$31,176	$31,176	$218,232
501	ROYAL AVE	L14-120	L14-121	20	ACP	264.0	31	Y	0	330	$160	$42,240	$25,344	M	$6,336		$0	8	$60,000	1	$400		$0		$0		FALSE	$0	$134,320	$26,864	$26,864	$188,048
502	ROYAL AVE	M14-178	L14-102	12	ACP	270.0	31	Y	0	330	$65	$17,550	$1,755	M	$2,633		$0		$0		$0		$0		$0		FALSE	$0	$21,938	$4,388	$4,388	$30,713
503	ROYAL AVE	M15-153	M15-151	12	ACP	254.0	31	Y	0	330	$65	$16,510	$1,651	M	$2,477		$0		$0		$0		$0		$0		FALSE	$0	$20,638	$4,128	$4,128	$28,893
504	ALAMO ST	P15-117	P15-117A	10	ACP	43.0	31	Y	0	330	$60	$2,580	$258	M	$387		$0		$0		$0		$0		$0		FALSE	$0	$3,225	$645	$645	$4,515
505	MARVEL AVE	N10-150	N10-159	12	VCP	237.0	37	N	220	325	$65	$15,405	$770	T	$770		$0	5	$37,500		$0		$0		$0		FALSE	$0	$54,446	$10,889	$10,889	$76,224
506	MARVEL AVE	O10-162	N10-100	12	VCP	344.5	37	N	220	325	$65	$22,393	$1,120	T	$1,120		$0	6	$45,000		$0		$0		$0		FALSE	$0	$69,632	$13,926	$13,926	$97,484
507	E LOS ANGELES AVE	M15-110	M15-109	24	ACP	485.6	35	Y	20	325	$192	$93,235	$55,941	M	$13,985		$0	1	$7,500	1	$400		$0		$0		FALSE	$0	$171,062	$34,212	$34,212	$239,486
508	LOS ANGELES AVE	M19-126	M19-125	18	ACP	342.8	35	Y	20	325	$144	$49,363	$29,618	M	$7,404	Y	$2,468	1	$7,500	1	$400		$0		$0		FALSE	$0	$96,754	$19,351	$19,351	$135,455
509	LOS ANGELES AVE	M19-127	M19-126	18	ACP	492.0	35	Y	20	325	$144	$70,848	$42,509	M	$10,627	Y	$3,542	1	$7,500		$0		$0		$0		FALSE	$0	$135,026	$27,005	$27,005	$189,037
510	ALAMO ST	P16-147	P16-146	18	ACP	441.9	35	Y	20	325	$144	$63,634	$38,180	M	$9,545		$0	2	$15,000		$0		$0		$0		FALSE	$0	$126,359	$25,272	$25,272	$176,902
511	TAPO CANYON RD	Q15-131	Q15-136	12	ACP	167.0	30	Y	20	325	$65	$10,855	$1,086	M	$1,628		$0	5	$37,500	1	$400		$0		$0		FALSE	$0	$51,469	$10,294	$10,294	$72,056
512	TAPO CANYON RD	Q15-144	Q15-154	12	ACP	328.2	30	Y	20	325	$65	$21,333	$2,133	M	$3,200		$0		$0		$0		$0		$0		FALSE	$0	$26,666	$5,333	$5,333	$37,333
513	ALAMO ST	P16-145	P16-145A	15	ACP	79.0	35	N	10	325	$120	$9,480	$2,844	M	$1,422		$0		$0		$0		$0		$0		FALSE	$0	$13,746	$2,749	$2,749	$19,244
514	UNK	J7-117	J7-113	12	TRUSS	274.4	26	N	200	320	$65	$17,836	$892	T	$892		$0		$0		$0		$0		$0		FALSE	$0	$19,620	$3,924	$3,924	$27,467
515	FIRST ST	L8-171	L8-161	12	VCP	323.0	27	Y	150	320	$65	$20,995	$2,100	M	$3,149	Y	$0		$0		$0		$0		$0		FALSE	$0	$26,244	$5,249	$5,249	$36,741
516	ALAMO ST	P14-116	P14-115	18	ACP	284.0	24	N	100	320	$144	$40,896	$24,538	M	$8,134		$0		$0		$0		$0		$0		FALSE	$0	$71,568	$14,314	$14,314	$100,195
517	ANGELA ST	N15-104	N15-103	21	ACP	429.0	35	Y	40	320	$168	$72,072	$28,829	T	$3,604		$0	9	$67,500		$0		$0		$0		FALSE	$0	$172,004	$34,401	$34,401	$240,806
518	STRATHEARN PL	N6-121	N6-103	27	ACP	401.0	44	N	20	320	$216	$86,616	$34,646	T	$4,331	Y	$8,662		$0		$0		$0		$0		FALSE	$0	$134,255	$26,851	$26,851	$187,957
519	HEYWOOD ST	M10-137	M10-136	16	ACP	223.9	43	N	0	320	$128	$28,659	$5,732	T	$1,433		$0		$0		$0		$0		$0		FALSE	$0	$35,824	$7,165	$7,165	$50,154
520	KATHERINE RD.	L20-133	L20-132	10	ACP	52.1	33	N	110	315	$60	$3,126	$156	T	$156	Y	$0		$0		$0		$0		$0		FALSE	$0	$3,439	$688	$688	$4,814
521	E EASY ST	N7-105	N7-105A	39	acp	386.5	35	N	40	315	$390	$150,735	$120,588	M	$22,610		$0		$0		$0		$0	Y	$3,865		FALSE	$0	$297,798	$59,560	$59,560	$416,918
522	E EASY ST	O7-118	O7-116	39	ACP	389.5	35	N	40	315	$390	$151,905	$121,524	M	$22,786	Y	$15,191		$0		$0		$0		$0		FALSE	$0	$311,405	$62,281	$62,281	$435,967
523	LOS ANGELES AVE	M19-122	M19-121	10	ACP	68.1	35	Y	10	315	$60	$4,086	$409	M	$613	Y	$0	4	$30,000		$0		$0		$0		FALSE	$0	$35,108	$7,022	$7,022	$49,151
524	TAPO CANYON RD	O15-118	O15-126	12	ACP	415.0	35	Y	10	315	$65	$26,975	$2,698	M	$4,046		$0		$0		$0		$0		$0		FALSE	$0	$33,719	$6,744	$6,744	$47,206

	Pipe Data										Costs and Cost Modifiers																			
														Traffic Control		Groundwater		Laterals				Spot Repairs		Infiltration		Risk Assessment						
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)
525	ALAMO ST	P16-148	P16-147	18	ACP	446.0	35	Y	10	315	$144	$64,224	$38,534	M	$9,634		$0		$0		$0		$0		$0		FALSE	$0	$112,392	$22,478	$22,478	$157,349
526	TAPO CANYON RD	R15-147	O15-100	12	ACP	346.0	30	Y	10	315	$65	$22,490	$2,249	M	$3,374		$0		$0		$0		$0		$0		FALSE	$0	$28,113	$5,623	$5,623	$39,358
527	TIERRA REJADA RD	N6-136	N6-138	10	TRUSS	261.0	22	Y	200	310	$60	$15,660	$783	T	$783		$0	5	$37,500		$0		$0		$0		FALSE	$0	$54,726	$10,945	$10,945	$76,616
528	TIERRA REJADA RD	N6-138	N6-140	10	TRUSS	138.0	22	Y	200	310	$60	$8,280	$414	T	$414		$0	9	$67,500		$0		$0		$0		FALSE	$0	$76,608	$15,322	$15,322	$107,251
529	TIERRA REJADA RD	N6-140	N6-142	10	TRUSS	220.0	22	Y	200	310	$60	$13,200	$660	T	$660		$0		$0		$0		$0		$0		FALSE	$0	$14,520	$2,904	$2,904	$20,328
530	STRATHEARN PL	N6-141	N6-130	10	TRUSS	72.8	22	Y	200	310	$60	$4,368	$218	T	$218	Y	$0		$0		$0		$0		$0		FALSE	$0	$4,805	$961	$961	$6,727
531	STEARNS ST	O17-112	O17-112A	15	PVC	89.0	25	N	200	310	$120	$10,680	$3,204	M	$1,602		$0		$0		$0		$0		$0		FALSE	$0	$15,486	$3,097	$3,097	$21,680
532	CORTO ST	K13-133	K13-128	12	PVC	386.8	24	Y	200	310	$65	$25,142	$1,257	T	$1,257		$0		$0		$0		$0		$0		FALSE	$0	$27,656	$5,531	$5,531	$38,719
533	CORTO ST	K13-138	K13-133	12	PVC	371.8	24	Y	200	310	$65	$24,167	$1,208	T	$1,208		$0		$0		$0		$0		$0		FALSE	$0	$26,584	$5,317	$5,317	$37,217
534	FIRST ST	K8-102	L8-171	12	VCP	323.0	27	Y	140	310	$65	$20,995	$2,100	M	$3,149	Y	$0		$0		$0		$0		$0		FALSE	$0	$26,244	$5,249	$5,249	$36,741
535	FIRST ST	I8-117	I8-111	10	ACP	396.0	27	Y	40	310	$60	$23,760	$2,376	M	$3,564		$0		$0		$0		$0		$0		FALSE	$0	$29,700	$5,940	$5,940	$41,580
536	DAMON ST	M18-185	M18-182	14	ACP	95.0	42	N	30	310	$112	$10,640	$2,128	T	$532	Y	$532		$0		$0		$0		$0		FALSE	$0	$13,832	$2,766	$2,766	$19,365
537	E LOS ANGELES AVE	M11-101	M11-107	12	ACP*	295.0	42	N	0	310	$65	$19,175	$1,918	M	$2,876		$0		$0		$0		$0		$0		FALSE	$0	$23,969	$4,794	$4,794	$33,556
538	HIETTER AVE	N14-148	N14-158	10	ACP	245.3	36	N	100	305	$60	$14,718	$736	T	$736		$0	1	$7,500		$0		$0		$0		FALSE	$0	$23,690	$4,738	$4,738	$33,166
539	CHRISTINE AVE	L19-103	M19-186	14	ACP	263.1	33	N	100	305	$112	$29,467	$5,893	T	$1,473	Y	$1,473	5	$37,500		$0		$0		$0		FALSE	$0	$75,807	$15,161	$15,161	$106,130
540	KATHERINE RD.	L20-129	L20-128	12	ACP	60.0	33	N	100	305	$65	$3,900	$195	T	$195	Y	$0	5	$37,500		$0		$0		$0		FALSE	$0	$41,790	$8,358	$8,358	$58,506
541	STOW ST	M18-144	M18-152	10	ACP	137.9	35	N	50	305	$60	$8,274	$827	M	$1,241	Y	$0	3	$22,500		$0		$0		$0		FALSE	$0	$32,842	$6,568	$6,568	$45,979
542	ROYAL AVE	L8-125	L8-124	18	RCP	295.0	31	Y	20	305	$144	$42,480	$25,488	M	$6,372	Y	$2,124	3	$22,500	1	$400		$0		$0		FALSE	$0	$99,364	$19,873	$19,873	$139,110
543	HEYWOOD ST	M11-150	M11-149	14	ACP	252.0	42	N	0	305	$112	$28,224	$5,645	T	$1,411		$0	1	$7,500		$0		$0		$0		FALSE	$0	$42,780	$8,556	$8,556	$59,892
544	HEYWOOD ST	M12-148	M11-150	14	ACP	242.2	42	N	0	305	$112	$27,126	$5,425	T	$1,356		$0	1	$7,500		$0		$0		$0		FALSE	$0	$41,408	$8,282	$8,282	$57,971
545	E LOS ANGELES AVE	M16-114B	M16-110	24	ACP	416.0	35	Y	0	305	$192	$79,872	$47,923	M	$11,981		$0	3	$22,500		$0		$0		$0		FALSE	$0	$162,276	$32,455	$32,455	$227,186
546	LOS ANGELES AVE	M19-125	M19-124	18	ACP	149.1	35	Y	0	305	$144	$21,470	$12,882	M	$3,221		$0	4	$30,000		$0		$0		$0		FALSE	$0	$67,573	$13,515	$13,515	$94,602
547	TAPO ST	O16-115	O16-119	18	ACP	357.0	35	Y	0	305	$144	$51,408	$30,845	M	$7,711		$0	6	$45,000		$0		$0		$0		FALSE	$0	$134,964	$26,993	$26,993	$188,950
548	TAPO ST	P16-143	P16-151	18	ACP	337.0	35	Y	0	305	$144	$48,528	$29,117	M	$7,279		$0	7	$52,500		$0		$0		$0		FALSE	$0	$137,424	$27,485	$27,485	$192,394
549	ALAMO ST	P16-150	P16-149	18	ACP	156.0	35	Y	0	305	$144	$22,464	$13,478	M	$3,370		$0		$0		$0		$0		$0		FALSE	$0	$39,312	$7,862	$7,862	$55,037
550	ALAMO ST	P17-118	P16-150	18	ACP	285.0	35	Y	0	305	$144	$41,040	$24,624	M	$6,156		$0		$0		$0		$0		$0		FALSE	$0	$71,820	$14,364	$14,364	$100,548
551	ALAMO ST	P14-114	P13-138	18	ACP	311.2	31	Y	0	305	$144	$44,813	$26,888	M	$6,722		$0		$0		$0		$0		$0		FALSE	$0	$78,422	$15,684	$15,684	$109,791
552	SEQUOIA AVE	O13-111	O13-111A	18	ACP	56.0	30	Y	0	305	$144	$8,064	$4,838	M	$1,210		$0		$0		$0		$0		$0		FALSE	$0	$14,112	$2,822	$2,822	$19,757
553	SEQUOIA AVE	P13-135	P13-150	18	ACP	338.1	30	Y	0	305	$144	$48,686	$29,212	M	$7,303		$0		$0		$0		$0		$0		FALSE	$0	$85,201	$17,040	$17,040	$119,282
554	SEQUOIA AVE	P13-150	P13-161	18	ACP	330.0	30	Y	0	305	$144	$47,520	$28,512	M	$7,128		$0		$0		$0		$0		$0		FALSE	$0	$83,160	$16,632	$16,632	$116,424
555	SEQUOIA AVE	P13-161	P13-168	18	ACP	300.0	30	Y	0	305	$144	$43,200	$25,920	M	$6,480		$0		$0		$0		$0		$0		FALSE	$0	$75,600	$15,120	$15,120	$105,840
556	SEQUOIA AVE	P13-168	O13-111	18	ACP	350.0	30	Y	0	305	$144	$50,400	$30,240	M	$7,560		$0		$0		$0		$0		$0		FALSE	$0	$88,200	$17,640	$17,640	$123,480
557	BUCKSKIN AVE	L9-136	L9-144	10	VCP	48.0	43	Y	20	300	$60	$2,880	$288	M	$432	Y	$0	10	$75,000	5	$2,000		$0		$0		FALSE	$0	$80,600	$16,120	$16,120	$112,840
558	5TH ST	M8-117	M8-114	24	ACP	185.0	44	N	20	300	$192	$35,520	$14,208	T	$1,776	Y	$3,552	11	$82,500	4	$1,600		$0		$0		FALSE	$0	$139,156	$27,831	$27,831	$194,818
559	TRACY AVE	N14-126	N14-139	10	ACP	375.1	36	Y	20	300	$60	$22,506	$1,125	T	$1,125		$0	12	$90,000		$0		$0		$0		FALSE	$0	$114,757	$22,951	$22,951	$160,659
560	ANGELA ST	N15-102	N15-101	21	ACP	410.0	35	Y	20	300	$168	$68,880	$27,552	T	$3,444		$0		$0		$0		$0		$0		FALSE	$0	$99,876	$19,975	$19,975	$139,826
561	ANGELA ST	N15-103	N15-102	21	ACP	410.0	35	Y	20	300	$168	$68,880	$27,552	T	$3,444		$0		$0		$0		$0		$0		FALSE	$0	$99,876	$19,975	$19,975	$139,826
562	LOS ANGELES AVE	M19-131	M19-130	14	ACP	374.0	33	N	20	300	$112	$41,888	$12,566	M	$6,283	Y	$2,094		$0		$0		$0		$0		FALSE	$0	$62,832	$12,566	$12,566	$87,965
563	CHRISTINE AVE	M20-151	M20-139	14	ACP	260.7	33	Y	40	295	$112	$29,198	$5,840	T	$1,460	Y	$1,460	3	$22,500		$0		$0		$0		FALSE	$0	$60,458	$12,092	$12,092	$84,641
564	E EASY ST	N8-142	N8-141	39	ACP	331.0	34	N	20	295	$390	$129,090	$103,272	M	$19,364	Y	$12,909		$0		$0		$0		$0		FALSE	$0	$264,635	$52,927	$52,927	$370,488
565	E EASY ST	N8-143	N8-142	39	ACP	317.0	34	N	20	295	$390	$123,630	$98,904	M	$18,545	Y	$12,363		$0		$0		$0		$0		FALSE	$0	$253,442	$50,688	$50,688	$354,818
566	ALAMO ST	P17-120	P17-119	18	ACP	166.0	35	N	0	295	$144	$23,904	$14,342	M	$3,586		$0	1	$7,500		$0		$0		$0		FALSE	$0	$49,332	$9,866	$9,866	$69,065
567	LEMON DR	Q14-143	P14-100	15	ACP	309.0	24	N	120	290	$120	$37,080	$7,416	T	$1,854		$0	1	$7,500		$0		$0		$0		FALSE	$0	$53,850	$10,770	$10,770	$75,390
568	PATRICIA AVE	M9-119	M9-118	36	ACP	416.5	35	N	40	290	$360	$149,940	$74,970	T	$7,497	Y	$14,994	9	$67,500		$0		$0	Y	$4,165		FALSE	$0	$319,066	$63,813	$63,813	$446,692
569	HEYWOOD ST	M10-136	M10-135	16	ACP	69.0	43	N	10	290	$128	$8,832	$1,766	T	$442		$0		$0		$0		$0		$0		FALSE	$0	$11,040	$2,208	$2,208	$15,456
570	SINALOA RD	L8-120	L8-109	15	RCP	377.5	31	Y	40[1]	285	$120	$45,300	$13,590	M	$6,795	Y	$2,265	1	$7,500		$0		$0		$0		FALSE	$0	$75,450	$15,090	$15,090	$105,630
571	ROYAL AVE	L8-124	L8-123	18	RCP	387.1	31	Y	40[1]	285	$144	$55,742	$33,445	M	$8,361	Y	$2,787	7	$52,500	1	$400		$0		$0		FALSE	$0	$153,236	$30,647	$30,647	$214,531
572	ROYAL AVE	L8-127	L8-126	18	RCP	391.0	31	Y	40	285	$144	$56,304	$33,782	M	$8,446	Y	$2,815		$0		$0		$0		$0		FALSE	$0	$101,347	$20,269	$20,269	$141,886
573	CHUMASH AVE	P18-102	P18-106	10	PVC	158.2	14	N	250	280	$60	$9,492	$475	T	$475		$0	1	$7,500		$0		$0		$0		FALSE	$0	$17,941	$3,588	$3,588	$25,118
574	UNK	J7-108	J7-105	12	TRUSS	333.7	26	N	220	280	$65	$21,691	$1,085	T	$1,085		$0	2	$15,000	1	$400		$0		$0		FALSE	$0	$39,260	$7,852	$7,852	$54,963
575	E EASY ST PARKING LOT	N7-100	O7-119	12	RCP	396.0	43	N	10	280	$65	$25,740	$2,574	M	$3,861	Y	$0		$0		$0		$0		$0		FALSE	$0	$32,175	$6,435	$6,435	$45,045
576	ELIZONDO AVE	L10-109	L10-108	10	ACP*	226.0	43	Y	0	280	$60	$13,560	$678	T	$678		$0	1	$7,500		$0		$0		$0		FALSE	$0	$22,416	$4,483	$4,483	$31,382
577	ELIZONDO AVE	L10-111	L10-109	10	ACP*	221.0	43	Y	0	280	$60	$13,260	$663	T	$663		$0	1	$7,500		$0		$0		$0		FALSE	$0	$22,086	$4,417	$4,417	$30,920
578	HEYWOOD ST	M11-143	M11-142	14	ACP	255.0	43	N	0	280	$112	$28,560	$5,712	T	$1,428		$0	1	$7,500		$0		$0		$0		FALSE	$0	$43,200	$8,640	$8,640	$60,480
579	ELIZONDO AVE	L11-127	L11-128	10	ACP*	127.4	42	Y	0	280	$60	$7,644	$382	T	$382		$0	3	$22,500		$0		$0		$0		FALSE	$0	$30,908	$6,182	$6,182	$43,272
580	UNK	M14-107	M14-105	12	ACP	115.0	42	N	0	280	$65	$7,475	$374	T	$374		$0	4	$30,000		$0		$0		$0		FALSE	$0	$38,223	$7,645	$7,645	$53,512
581	BOLIVAR CT	M14-111	M14-104	12	ACP	251.0	42	N	0	280	$65	$16,315	$816	T	$816		$0	4	$30,000		$0		$0		$0		FALSE	$0	$47,947	$9,589	$9,589	$67,125
582	DAVIDSON LN	M19-164	M19-164A	10	ACP	186.0	42	N	0	280	$60	$11,160	$558	T	$558		$0	4	$30,000		$0		$0		$0		FALSE	$0	$42,276	$8,455	$8,455	$59,186
583	N JUSTIN AVE	N11-161	M11-101	10	ACP	254.2	42	N	0	280	$60	$15,252	$763	T	$763		$0	6	$45,000		$0		$0		$0		FALSE	$0	$61,777	$12,355	$12,355	$86,488
584	REBECCA ST	N15-117	N15-125	21	ACP	269.0	35	Y	0	280	$168	$45,192	$18,077	T	$2,260		$0	7	$52,500		$0		$0		$0		FALSE	$0	$118,028	$23,606	$23,606	$165,240
585	REBECCA ST	N15-132	N15-140	21	ACP	270.0	35	Y	0	280	$168	$45,360	$18,144	T	$2,268		$0	9	$67,500		$0		$0		$0		FALSE	$0	$133,272	$26,654	$26,654	$186,581
586	REBECCA ST	O15-147	N15-108	21	ACP	270.0	35	Y	0	280	$168	$45,360	$18,144	T	$2,268		$0		$0		$0		$0		$0		FALSE	$0	$65,772	$13,154	$13,154	$92,081
587	TAPO CANYON RD	P15-114	P15-122	12	ACP	330.0	35	N	0	280	$65	$21,450	$2,145	M	$3,218		$0		$0		$0		$0		$0		FALSE	$0	$26,813	$5,363	$5,363	$37,538
588	LOS ANGELES AVE	M18-129	M18-129A	21	ACP	46.0	34	N	0	280	$168	$7,728	$4,637	M	$1,159		$0		$0		$0		$0		$0		FALSE	$0	$13,524	$2,705	$2,705	$18,934
589	FIRST ST	J8-100	K8-163	12	ACP	326.0	30	N	0	280	$65	$21,190	$2,119	M	$3,179	Y	$0		$0		$0		$0		$0		FALSE	$0	$26,488	$5,298	$5,298	$37,083
590	FIRST ST	J8-134	J8-125	12	ACP	296.0	30	N	0	280	$65	$19,240	$1,924	M	$2,886		$0		$0		$0		$0		$0		FALSE	$0	$24,050	$4,810	$4,810	$33,670
591	MARVEL AVE	N10-104	N10-112	12	VCP	243.0	37	Y	120	275	$65	$15,795	$790	T	$790		$0	4	$30,000		$0		$0		$0		FALSE	$0	$47,375	$9,475	$9,475	$66,324
592	ROYAL AVE	L8-128	L8-127	18	RCP	386.0	31	Y	30	275	$144	$55,584	$33,350	M	$8,338	Y	$2,779	7	$52,500		$0		$0		$0		FALSE	$0	$152,551	$30,510	$30,510	$213,572
593	N JUSTIN AVE	O11-159A	N11-100	10	ACP	419.0	39	N	20	275	$60	$25,140	$2,514	M	$3,771		$0	1	$7,500	1	$400		$0		$0		FALSE	$0	$39,325	$7,865	$7,865	$55,055
594	ERRINGER RD	M10-111	M10-116	12	ACP	312.0	37	N	20[1]	275	$65	$20,280	$2,028	M	$3,042		$0	1	$7,500		$0		$0		$0		FALSE	$0	$32,850	$6,570	$6,570	$45,990
595	TAPO CANYON RD	O15-131	O15-131A	12	ACP	13.0	35	N	20	275	$65	$845	$85	M	$127		$0	2	$15,000		$0		$0		$0		FALSE	$0	$16,056	$3,211	$3,211	$22,479
596	KADOTA ST	O16-116	O16-127	10	ACP	395.0	35	N	20	275	$60	$23,700	$2,370	M	$3,555		$0	7	$52,500		$0		$0		$0		FALSE	$0	$82,125	$16,425	$16,425	$114,975
597	TAPO CANYON RD	P15-105	P15-110	12	ACP	415.0	35	N	20	275	$65	$26,975	$2,698	M	$4,046		$0	13	$97,500		$0		$0		$0		FALSE	$0	$131,219	$26,244	$26,244	$183,706
598	TAPO CANYON RD	P15-110	P15-113	12	ACP	415.0	35	N	20	275	$65	$26,975	$2,698	M	$4,046		$0	17	$127,500	1	$400		$0		$0		FALSE	$0	$161,619	$32,324	$32,324	$226,266
599	ALAMO ST	P16-149	P16-148	18	ACP	455.0	35	N	20	275	$144	$65,520	$39,312	M	$9,828		$0		$0		$0		$0		$0		FALSE	$0	$114,660	$22,932	$22,932	$160,524
600	E LOS ANGELES AVE	M17-108	M17-104	21	ACP	433.5	34	N	20	275	$168	$72,828	$43,697	M	$10,924		$0		$0		$0		$0		$0		FALSE	$0	$127,449	$25,490	$25,490	$178,429
601	LOS ANGELES AVE	M18-125	M17-107	24	ACP	444.0	34	N	20	275	$192	$85,248	$51,149	M	$12,787		$0		$0		$0		$0		$0		FALSE	$0	$149,184	$29,837	$29,837	$208,858
602	LOS ANGELES AVE	M19-130	M19-129	14	ACP	56.0	33	N	20	275	$112	$6,272	$1,882	M	$941	Y	$314		$0		$0		$0		$0		FALSE	$0	$9,408	$1,882	$1,882	$13,171
603	ANASTASIA AVE	M20-112	M20-117	10	ACP	220.0	33	Y	20	275	$60	$13,200	$660	T	$660	Y	$0		$0		$0		$0		$0		FALSE	$0	$14,520	$2,904	$2,904	$20,328
604	ALAMO ST	P13-138	P13-135	18	ACP	391.9	31	N	20	275	$144	$56,434	$33,860	M	$8,465		$0		$0		$0		$0		$0		FALSE	$0	$98,759	$19,752	$19,752	$138,262

	Pipe Data										Costs and Cost Modifiers																				
														Traffic Control		Groundwater		Laterals				Spot Repairs		Infiltration		Risk Assessment					
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]	Base CIPP Cost, $/linear ft[c]	CIPP Construction Cost ($)[c]	Bypass Pumping Costs ($)[c]	Type (M: major, T: typical)	Costs ($)[c]	High?	Costs ($)[c]	No.	Costs ($)[c]	No. Intruding Laterals	Costs ($)[c]	No. obstructions	Costs ($)[c]	Infiltration ?	Costs ($)[c]	Risk Level (1 = low 5 = high)	% Risk	Cost	Total Approximate Construction Cost ($)[d]	Engineering and Administrative Costs ($)[c]	Contingency Costs ($)[c]	TOTAL Estimated Costs ($)
605	TAPO CANYON RD	Q15-136	Q15-144	12	ACP	161.2	30	N	20	275	$65	$10,478	$1,048	M	$1,572		$0		$0		$0		$0		$0		FALSE	$0	$13,098	$2,620	$2,620	$18,337
606	E LOS ANGELES AVE	M9-103	M8-103	39	ACP	96.0	35	N	0	275	$390	$37,440	$29,952	M	$5,616	Y	$3,744		$0		$0		$0		$0		FALSE	$0	$76,752	$15,350	$15,350	$107,453
607	FIRST ST	N8-150	N8-143	39	ACP	320.0	35	N	0	275	$390	$124,800	$99,840	M	$18,720	Y	$12,480		$0		$0		$0		$0		FALSE	$0	$255,840	$51,168	$51,168	$358,176
		Total Estimated Length:				92,595.8																							Total Estimated Costs[e]:			$38,197,000

Notes:

a) Modified PACP score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.
b) Total score is the sum of the Modified PACP score and all criticality factors.
c) Costs developed from Unit Cost table.
d) Total Approximate Construction Costs are the sum of the CIPP Construction Cost plus all other costs.
e) Total Costs rounded to the nearest $1,000.
* Epoxy-lined ACP
\+ Video was inconclusive and Modified PACP Score represents a minimum score based on the portion of the segment that was viewable.

Table 2-5: Greater Than 20 Years Rehabilitation - Supporting Pipeline Data

	Pipe Data									
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
608	N WOOD RANCH PKWY	I5-126	I5-125	15	VCP	97.2	20	N	200	270
609	UNK	J5-125	J5-124	18	VCP	201.8	20	N	200	270
610	MAHAGONY LN	J6-121	J6-122	15	VCP	125.0	20	N	200	270
611	SEQUOIA AVE	K13-172	K13-172A	10	PVC	156.0	24	Y	110	270
612	REBECCA ST	N15-161	M15-101	21	ACP	182.0	35	N	100	270
613	AVENIDA SIMI	Q14-149	Q14-146	15	ACP	277.5	24	N	100	270
614	PATRICIA AVE	M10-122	M10-121	33	ACP	468.4	35	N	20	270
615	PATRICIA AVE	M9-120	M9-119	36	ACP	411.8	35	N	20	270
616	E EASY ST	O7-111	O6-129	36	ACP	450.5	35	N	20[+]	270
617	1ST ST	I8-134	I8-126	10	ACP	334.0	27	Y	0	270
618	UNK	M15-119	M15-129	21	ACP	266.2	25	Y	0	270
619	ROYAL AVE	L8-123	L8-122	18	RCP	377.9	31	Y	20	265
620	ROYAL AVE	L8-126	L8-125	18	RCP	391.0	31	Y	20	265
621	STOW ST	N18-145	N18-166	10	ACP	340.0	38	N	10	265
622	TRACY AVE	N14-139	N14-151	10	ACP	382.3	36	Y	10	265
623	TAPO ST	O16-119	O16-128	21	ACP	273.0	35	N	10	265
624	TAPO CANYON RD	Q15-100	Q15-112	12	ACP	346.0	30	N	10	265
625	VALLEY GATE RD	I7-119	I7-115	12	TRUSS	94.9	19	N	230	260
626	UNK	J7-105	J7-104	12	TRUSS	363.0	26	N	200	260
627	STEARNS ST	N17-116	N17-128	18	PVC	300.0	25	Y	100	260
628	SEQUOIA AVE	J13-106	K13-172	12	PVC	342.6	24	Y	100	260
629	UNK	M14-138	M14-131	21	ACP	235.3	25	Y	40	260
630	SYCAMORE DR	M12-106A	M12-106	14	PVC	24.3	42	N	10	260
631	AURELIA ST	M17-126A	M17-129	16	PVC	281.0	42	Y	0	260
632	MARVEL AVE	N10-100	N10-104	12	VCP	134.5	37	Y	100	255
633	DARRAH AVE	M14-176	M14-179	20	ACP	96.7	29	Y	10	255
634	TRACY AVE	N14-119	N14-126	10	ACP	323.3	39	Y	0	255
635	N JUSTIN AVE	O11-150	O11-159	10	ACP	264.3	39	N	0	255
636	N JUSTIN AVE	O11-159	O11-159A	10	ACP	5.0	39	N	0	255
637	STOW ST	N18-166	M18-108	10	ACP	340.0	38	N	0	255
638	ERRINGER RD	O10-101	O10-105	10	ACP	311.0	36	N	0	255
639	ERRINGER RD	O10-105	O10-118	10	ACP	341.0	36	N	0	255
640	ERRINGER RD	P10-128	O10-101	10	ACP	334.0	36	N	0	255
641	E LOS ANGELES AVE	M16-111A	M16-114	24	ACP	450.1	35	N	0	255
642	LOS ANGELES AVE	M19-128	M19-127	18	ACP	481.9	35	N	0	255
643	COCHRAN ST	O15-141	O15-140	18	ACP	300.0	35	N	0	255
644	COCHRAN ST	O16-134	O15-134A	18	ACP	45.0	35	N	0	255
645	TAPO ST	P16-151	P16-156	18	ACP	338.4	35	N	0	255
646	CHRISTINE AVE	L20-113	L19-103	12	ACP	207.6	33	Y	0	255
647	TAPO CANYON RD	R15-129	R15-141	12	ACP	290.7	30	N	0	255
648	TAPO CANYON AVE	R15-141	R15-147	12	ACP	346.0	30	N	0	255
649	FIRST ST	K8-109	K8-102	12	VCP	139.0	27	N	130	250
650	FIRST ST	L8-161	L8-147	12	VCP	323.0	27	Y	40	250
651	BUCKSKIN AVE	L9-112	L9-125	10	VCP	256.0	43	Y	20	250
652	BUCKSKIN AVE	L9-125	L9-136	10	VCP	311.0	43	N	20	250
653	CHRISTINE AVE	M19-180	M20-151	14	ACP	271.7	33	N	20	250
654	SYCAMORE DR	M12-106A	M12-111	14	PVC	180.5	42	N	0	250
655	MARICOPA DR	P18-126	P18-124	10	ACP	219.1	27	N	50	245
656	UNK	O6-102	P6-119	48	RCP	156.8	35	Y	20	245
657	UNK	O6-107	O6-102	48	RCP	458.4	35	Y	20	245
658	UNK	O6-111	O6-107	48	RCP	445.8	35	Y	20	245
659	UNK	O6-115	O6-111	48	RCP	453.4	35	Y	20	245
660	MERCURY PL	M15-129	M15-130	21	ACP	354.0	25	Y	0	245
661	SENECA PL	Q18-119	Q18-121	10	PVC	244.3	14	N	210	240
662	CHUMASH AVE	Q18-150	P18-102	10	PVC	269.2	14	N	210	240
663	INDIAN TERRACE DR.	P19-113	P19-109	10	PVC	185.0	9	N	210	240

	Pipe Data									
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
664	INDIAN TERRACE DR.	P19-126	P19-121	10	PVC	289.5	9	N	210	**240**
665	SEQUOIA AVE	J13-109	J13-106	12	PVC	67.0	24	N	130	**240**
666	E EASY ST PARKING LOT	N7-104	N7-100	12	RCP	396.0	43	N	20	**240**
667	E. EASY ST PARKING LOT	N7-134	N7-128	12	RCP	396.0	43	N	20	**240**
668	DAVIDSON LN	M19-143	M19-157	10	RCP	233.9	42	N	20	**240**
669	ROSALIE ST	N14-161A	M14-106	10	PVC	283.0	42	Y	20	**240**
670	E LOS ANGELES AVE	M16-116	M16-116A	18	DIP	20.0	43	N	0	**240**
671	KADOTA ST	O16-105	O16-114	10	ACP	118.9	35	N	30	**235**
672	KADOTA ST	P16-509	P16-155	10	ACP	177.0	33	N	30	**235**
673	INDIAN TERRACE DR.	P19-125	P19-130	8	PVC	208.5	9	N	220	**230**
674	VALLEY GATE RD	I7-124	I7-119	12	TRUSS	222.7	19	N	200	**230**
675	SEQUOIA AVE	K13-172A	K13-158	10	PVC	39.0	24	N	120	**230**
676	EMERALD AVE	P13-128	P13-129	10	VCP	174.4	26	Y	110	**230**
677	MADERA RD	K6-122	K7-135	15	ACP	394.7	28	N	10	**230**
678	1ST ST	I8-104	I8-101	10	ACP	210.0	27	N	10	**230**
679	ELIZONDO AVE	L10-108	L10-107	10	ACP*	151.4	43	N	0	**230**
680	UNK	M14-108	M14-105	14	ACP*	145.0	42	N	0	**230**
681	ERRINGER RD	M10-103	M10-111	33	VCP	88.0	35	N	50	**225**
682	N JUSTIN AVE	N11-138	N11-149	10	ACP	261.0	39	N	20	**225**
683	HIETTER AVE	N14-136	N14-148	10	ACP	272.0	36	N	20	**225**
684	KATHERINE RD.	L20-130	L20-129	12	ACP	190.0	33	N	20	**225**
685	FIRST ST	L8-132	L8-129	24	ACP	10.0	0	N	20	**225**
686	EMERALD AVE	P13-129	P13-130	10	VCP	240.9	26	Y	100	**220**
687	E EASY ST PARKING LOT	N7-112	N7-104	12	RCP	396.0	43	N	0	**220**
688	1ST ST	I8-111	I8-104	10	ACP	354.0	27	N	0	**220**
689	1ST ST	I8-126	I8-117	10	ACP	338.5	27	N	0	**220**
690	UNK	M14-139	M14-138	21	ACP	387.7	25	Y	0	**220**
691	MERCURY PL	M15-130	M14-140	21	ACP	354.0	25	Y	0	**220**
692	TRACY AVE	N14-151	M14-108	10	ACP	410.6	36	N	10	**215**
693	SOJKA DR	O12-108	O13-102	12	TRUSS	334.4	22	Y	100	**210**
694	MARICOPA DR	P18-124	P18-123	10	ACP	288.6	27	N	40	**210**
695	AURELIA ST	M17-126	M17-126A	16	PVC	61.0	42	N	0	**210**
696	LECONT CT	M14-103	M14-101	12	VCP	320.0	34	N	100	**205**
697	AGNEW ST	N9-109	N9-112	10	PVC	267.9	33	Y	10	**205**
698	ERRINGER RD	N10-171	M10-101	12	VCP	245.9	37	Y	0	**205**
699	SEQUOIA AVE	O13-161	O13-168	10	VCP	85.0	33	Y	0	**205**
700	N JUSTIN AVE	N11-100	N11-104	10	ACP	69.8	39	N	0	**205**
701	N JUSTIN AVE	N11-104	N11-113	10	ACP	301.9	39	N	0	**205**
702	N JUSTIN AVE	N11-113	N11-121	10	ACP	255.6	39	N	0	**205**
703	N JUSTIN AVE	N11-121	N11-130	10	ACP	258.5	39	N	0	**205**
704	N JUSTIN AVE	N11-130	N11-138	10	ACP	253.0	39	N	0	**205**
705	N JUSTIN AVE	N11-149	N11-161	10	ACP	253.0	39	N	0	**205**
706	HIETTER AVE	N14-158	M14-102	10	ACP	245.3	36	N	0	**205**
707	KADOTA ST	P16-155	P16-166	10	ACP	283.0	35	N	0	**205**
708	SENECA PL	Q18-121	Q18-125	10	PVC	258.3	14	Y	120	**200**
709	SENECA PL	Q18-143	Q17-120	10	PVC	370.0	14	Y	120	**200**
710	SYCAMORE DR	O12-128	O12-132	10	PVC	200.0	29	Y	40	**200**
711	ONYX CIR	P13-126	P13-135	12	PVC	382.2	27	Y	40[+]	**200**
712	STEARNS ST	N17-102	N17-111	18	PVC	350.0	25	Y	40	**200**
713	STEARNS ST	N17-111	N17-116	18	PVC	323.0	25	Y	40	**200**
714	STEARNS ST	N17-135	N17-137	18	PVC	350.0	25	Y	40	**200**
715	STEARNS ST	O17-101	O17-103	12	PVC	262.0	25	Y	40	**200**
716	STEARNS ST	O17-112A	O17-114	15	PVC	240.0	25	Y	40	**200**
717	STEARNS ST	O17-152	N17-102	18	PVC	353.0	25	Y	40	**200**
718	STEARNS ST	P17-117	P17-137	12	PVC	345.1	25	Y	40	**200**
719	FIRST ST	L8-147	L8-128	12	VCP	320.0	27	Y	30	**200**
720	UNK	O6-127	O6-125	42	RCP	142.7	21	N	20	**200**
721	UNK	P6-119	P6-109	48	RCP	302.1	35	N	20	**195**
722	SINALOA RD	M8-121A	M8-108	15	rcp	375.0	31	Y	0	**195**

Priortization Number	Pipe Data									
	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
723	SINALOA RD	M8-168	M8-163	15	rcp	296.9	31	Y	0	195
724	MOHAVE DR	P18-123	P18-135	10	ACP	266.4	27	N	0	195
725	MOHAVE DR	P18-129	P17-113	10	ACP	362.5	27	N	0	195
726	MOHAVE DR	P18-133	P18-129	10	ACP	296.9	27	N	0	195
727	MOHAVE DR	P18-134	P18-133	10	ACP	276.6	27	N	0	195
728	MOHAVE DR	P18-135	P18-134	10	ACP	212.5	27	N	0	195
729	WILDLIFE DR	I7-101	J7-139	12	PVC	307.2	17	Y	110	190
730	FLANAGAN DR	P19-109	P19-106	12	PVC	358.2	14	Y	110	190
731	INDIAN TERRACE DR.	P19-121	P19-113	10	PVC	229.3	9	Y	110	190
732	CHRISTINE AVE	M20-139	M20-132	14	ACP	115.4	26	N	20	190
733	LEMON DR	P14-100	P14-104	15	ACP	305.0	24	N	20	190
734	LEMON DR	P14-104	P14-107	15	ACP	303.5	24	N	20	190
735	SOJKA DR	O13-102	O13-104	12	TRUSS	319.1	21	N	120	180
736	STEARNS ST	O17-114	O17-122	8	PVC	350.0	25	Y	40	180
737	STEARNS ST	O17-137	O17-152	8	PVC	350.0	25	Y	40	180
738	MADERA RD	O7-101A	O7-105	15	PVC	144.0	22	Y	20	180
739	MADERA RD	P7-106	P7-109	15	PVC	396.0	22	Y	20	180
740	MADERA RD	P7-109	O7-101	15	PVC	400.0	22	Y	20	180
741	BUCKSKIN AVE	L9-101	L9-112	10	VCP	256.0	43	N	0	180
742	MARVEL AVE	N10-112	N10-119	12	VCP	240.5	37	Y	20	175
743	UNK	P5-102	BNODE	48	RCP	442.9	35	N	0	175
744	MARICOPA DR	P18-125	P18-127	10	PVC	255.6	26	N	110	170
745	FIRST ST	H8-107	I8-142	10	PVC	396.0	9	Y	40	170
746	MADERA RD	P7-100	P7-101	15	PVC	391.3	22	Y	10	170
747	ROSALIE ST	N14-161	M14-161A	10	PVC	10.0	42	N	0	170
748	SEQUOIA AVE	O13-114	O13-125	10	PVC	290.0	33	N	20	165
749	TIERRA REJADA RD	N6-135	N6-136	10	TRUSS	38.0	22	N	100	160
750	ROYAL AVE	K12-118	K12-117	20	VCP	265.0	29	N	40[+]	160
751	UNK	J6-120	J6-121	18	VCP	296.0	20	Y	40	160
752	FIRST ST	I8-142	I8-134	10	PVC	396.0	9	N	40	160
753	ERRINGER RD	O10-160	O10-161	12	PVC	139.6	5	Y	40	160
754	UNK	J7-103	K7-135	12	TRUSS	326.7	26	Y	0	160
755	COCHRAN ST	O13-163	O12-127	12	TRUSS	440.0	26	Y	0	160
756	COCHRAN ST	O13-164	O13-163	12	TRUSS	278.0	26	Y	0	160
757	COCHRAN ST	O13-165	O13-164	12	TRUSS	209.4	26	Y	0	160
758	SEQUOIA AVE	O13-113	O13-115	12	TRUSS	301.0	21	Y	0	160
759	COCHRAN ST	O12-129	O12-128	10	PVC	306.0	29	Y	0	160
760	STEARNS ST	M17-100	M17-106	18	PVC	350.0	25	Y	0	160
761	STEARNS ST	N17-128	N17-131	18	PVC	273.5	25	Y	0	160
762	SEQUOIA AVE	J13-121	J13-109	12	PVC	396.0	24	Y	0	160
763	MADERA RD	P7-105	P7-106	15	PVC	157.4	22	Y	0	160
764	DENHAM CT	N10-119	N10-120	12	VCP	164.2	37	Y	0	155
765	UNK	O13-146	O13-161	10	VCP	259.9	33	Y	0	155
766	LOCKWOOD CT	O13-148	O13-146	10	VCP	295.1	33	Y	0	155
767	KAWAI CT	Q18-110	Q18-115	10	dip	116.6	14	N	100	150
768	TIERRA REJADA RD	N6-142	N6-145	10	TRUSS	341.8	22	Y	40	150
769	EMERALD AVE	P13-133	P13-126	12	PVC	238.8	27	Y	40	150
770	TOWNSHIP AVE	Q14-115	Q15-111	10	PVC	307.6	26	Y	40	150
771	STEARNS ST	P17-137	P17-165	12	PVC	350.0	25	N	40	150
772	N WOOD RANCH PKWY	I5-129	I5-126	15	PVC	296.8	20	Y	40	150
773	SINALOA RD	M8-137	M8-132	15	rcp	39.8	31	N	0	145
774	HIGHWOOD CT	O13-125	O13-124	10	PVC	127.6	33	N	0	145
775	UNK	O13-129	O13-126	10	PVC	166.3	33	Y	0	145
776	SEMPLE ST	M14-128	M14-132	15	ACP*	135.0	29	N	20	140
777	VALLEY GATE RD	I7-115	I7-110	12	TRUSS	310.3	19	N	100	130
778	FITZGERALD RD	J13-138	J13-136	12	PVC	236.0	24	N	20	130
779	CORTO ST	K13-115	K13-105	12	PVC	263.9	24	Y	20	130
780	MADERA RD	P7-102	P7-103	15	PVC	321.3	22	N	20	130
781	MADERA RD	P8-100	P7-100	15	PVC	396.0	22	N	20	130

	Pipe Data									
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
782	UNK	J6-146	J6-144	18	VCP	255.1	20	Y	10	130
783	UNK	I5-107	I5-103	15	VCP	141.7	20	N	0	130
784	MARVEL AVE	O10-158	O10-162	12	VCP	209.0	37	N	20	125
785	FIRST ST	N9-123	N9-131	12	PVC	383.0	17	N	40	120
786	SHERI DR	Q14-100	Q14-105	10	PVC	182.0	26	Y	10	120
787	SHERI DR	Q14-105	Q14-106	10	PVC	141.0	26	Y	10	120
788	SHERI DR	Q14-106	Q14-115	10	PVC	155.6	26	Y	10	120
789	SEQUOIA AVE	J13-136	J13-121	10	PVC	396.0	24	N	10	120
790	FITZGERALD RD	J13-140	J13-141	12	PVC	268.3	24	N	10	120
791	MILLCROFT CT	J13-152	J13-140	10	PVC	341.1	24	N	10	120
792	CORTO ST	K13-155	K13-148	10	PVC	148.0	24	N	10	120
793	CORTO ST	K13-157A	K13-155	10	PVC	233.0	24	N	10	120
794	MADERA RD	J6-100	K6-122	15	VCP	20.0	20	N	0	120
795	COUNTRY CLUB DR	J6-136	J6-131	18	VCP	326.7	20	Y	0	120
796	COUNTRY CLUB DR	J6-138	J6-136	18	VCP	356.7	20	Y	0	120
797	COUNTRY CLUB DR	J6-141	J6-138	18	VCP	204.5	20	Y	0	120
798	COUNTRY CLUB DR	J6-144	J6-141	18	VCP	326.1	20	Y	0	120
799	UNK	J7-132	J7-127	12	TRUSS	327.8	26	N	0	120
800	UNK	J7-135	J7-132	12	TRUSS	189.7	26	N	0	120
801	MARVEL AVE	N10-139	N10-150	12	VCP	246.5	37	N	10	115
802	LECONT CT	M15-100	M14-103	12	VCP	296.9	34	N	10	115
803	MADERA RD	O7-109	O7-112	12	PVC	371.0	16	N	30	110
804	FLANAGAN DR	Q19-140	Q19-144	10	PVC	313.0	14	Y	30	110
805	COCHRAN ST	O12-127	O12-126	12	TRUSS	166.0	26	N	0	110
806	GALENA AVE	O13-115	O13-117	10	TRUSS	55.9	26	Y	0	110
807	GALENA AVE	O13-145	O13-167	10	TRUSS	306.0	26	N	0	110
808	COCHRAN ST	O13-167	O13-165	12	TRUSS	360.0	26	N	0	110
809	TIERRA REJADA RD	N6-133	N6-135	10	TRUSS	296.0	22	Y	0	110
810	EMERALD AVE	P13-130	P13-131	12	PVC	274.7	27	Y	0	110
811	EMERALD AVE	P13-131	P13-133	12	PVC	276.2	27	Y	0	110
812	SHERI DR	R14-103	R14-502	10	PVC	111.1	26	Y	0	110
813	SHERI DR	R14-502	Q14-100	10	PVC	215.1	26	Y	0	110
814	SHERI DR	R15-144	R15-146	10	PVC	86.5	26	Y	0	110
815	SHERI DR	R15-146	R14-103	10	PVC	400.0	26	Y	0	110
816	STEARNS ST	O17-103	O17-112	15	PVC	130.1	25	N	0	110
817	FITZGERALD RD	J13-141	J13-138	12	PVC	236.0	24	N	0	110
818	CORTO ST	K13-128	K13-115	12	PVC	358.6	24	Y	0	110
819	CORTO ST	K13-157	K13-157A	10	PVC	124.0	24	N	0	110
820	MADERA RD	P7-101	P7-102	15	PVC	355.4	22	N	0	110
821	MADERA RD	Q8-100	P8-100	15	PVC	341.4	22	N	0	110
822	AZTEC CT	M14-101	M14-102	12	VCP	333.5	36	N	0	105
823	KAWAI CT	Q18-115	Q18-119	8	PVC	128.3	14	Y	40	100
824	FIRST ST	N9-131	N9-134	12	PVC	371.0	17	N	20	100
825	ERRINGER RD	N10-175	M10-102	12	PVC	304.5	5	N	0	100
826	CORTO ST	L13-146	L12-150	12	DIP	46.7	16	N	0	100
827	CORTO ST	L13-147	L13-146	12	DIP	100.8	16	Y	0	100
828	GRAHAM ST	N9-119	N9-109	10	PVC	403.9	33	N	0	95
829	GRAHAM ST	N9-121	N9-119	10	PVC	405.4	33	N	0	95
830	GRAHAM ST	N9-125	N9-121	10	PVC	402.5	33	N	0	95
831	UNK	O13-124	O13-129	10	PVC	129.8	33	N	0	95
832	MARTHA MORRISON DR	H5-140	H5-134	12	PVC	346.7	19	Y	10	90
833	FIRST ST	N9-122	N9-123	12	PVC	9.0	17	N	10	90
834	SENECA PL	Q18-125	Q18-136	10	PVC	300.4	14	Y	10	90
835	CORTO ST	K13-158	K13-158A	8	PVC	192.0	24	Y	0	90
836	HIGHLAND RD	I7-110	I7-111	12	TRUSS	186.1	26	N	20	80
837	VALLEY GATE RD	I7-128	I7-124	10	TRUSS	290.4	26	N	20	80
838	GALENA AVE	O13-117	O13-127	10	TRUSS	272.6	26	N	20	80
839	UNK	J6-147	J6-146	18	VCP	136.9	20	N	10	80
840	ERRINGER RD	N10-151	N10-163	12	PVC	346.0	5	N	10	80

Priortization Number	Pipe Data									
	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
841	ERRINGER RD.	O10-100	O10-102	12	PVC	346.0	5	N	10	80
842	ERRINGER RD	O10-102	O10-112	12	PVC	346.0	5	N	10	80
843	ERRINGER RD	O10-121	O10-133	12	PVC	296.0	5	N	10	80
844	MARTHA MORRISON DR	H5-127	H5-119	12	PVC	392.8	19	Y	0	80
845	N WOOD RANCH PKWY	H6-105	H5-130	10	PVC	391.0	19	Y	0	80
846	N WOOD RANCH PKWY	H6-106	H6-105	10	PVC	370.9	19	Y	0	80
847	FIRST ST	N9-111	N9-112	12	PVC	21.0	17	N	0	80
848	FIRST ST	O8-117	O8-120	12	PVC	302.5	17	N	0	80
849	FIRST ST	O8-120	N8-103	12	PVC	302.5	17	N	0	80
850	MADERA RD	O7-105	O7-105A	12	PVC	140.0	16	N	0	80
851	MADERA RD	O7-108	O7-109	12	PVC	246.0	16	N	0	80
852	ERRINGER RD	P10-114	P10-123	10	PVC	320.0	15	N	0	80
853	FLANAGAN DR	Q19-144	P19-102	10	PVC	380.0	14	N	40	70
854	N WOOD RANCH PKWY	I5-116	I5-113	15	VCP	65.7	20	N	0	70
855	N WOOD RANCH PKWY	I5-125	I5-124	15	VCP	388.9	20	N	0	70
856	UNK	J5-120	J6-147	18	VCP	54.0	20	N	0	70
857	UNK	J5-124	J5-120	18	VCP	203.1	20	N	0	70
858	UNK	J6-119	J6-112	15	VCP	302.6	20	N	0	70
859	MAHAGONY LN	J6-122	J6-124	15	VCP	186.0	20	N	0	70
860	MAHAGONY LN	J6-123	J6-119	15	VCP	266.0	20	N	0	70
861	MAHAGONY LN	J6-124	J6-123	15	VCP	80.0	20	N	0	70
862	ERRINGER RD	M10-102	M10-103	12	PVC	26.6	5	N	0	70
863	ERRINGER RD	N10-107	N10-118	12	PVC	346.0	5	N	0	70
864	ERRINGER RD	N10-118	N10-130	12	PVC	346.0	5	N	0	70
865	ERRINGER RD	N10-130	N10-151	12	PVC	346.0	5	N	0	70
866	ERRINGER RD	N10-163	N10-175	12	PVC	346.0	5	N	0	70
867	ERRINGER RD	O10-112	O10-121	12	PVC	313.0	5	N	0	70
868	ERRINGER RD	O10-133	O10-159	12	PVC	338.0	5	N	0	70
869	ERRINGER RD	O10-159	O10-160	12	PVC	34.2	5	N	0	70
870	ERRINGER RD	O10-161	N10-107	12	PVC	346.0	5	N	0	70
871	ERRINGER RD	P10-116	O10-100	12	PVC	346.0	5	N	0	70
872	HIGHLAND RD	I7-111	I7-103	12	TRUSS	33.0	26	N	0	60
873	VALLEY GATE RD	I7-129	I7-128	10	TRUSS	112.4	26	N	0	60
874	VALLEY GATE RD	I7-135	I7-129	10	TRUSS	245.4	26	N	0	60
875	VALLEY GATE RD	I7-141	I7-135	10	TRUSS	245.4	26	N	0	60
876	UNK	J7-113	J7-108	12	TRUSS	243.0	26	N	0	60
877	GALENA AVE	O13-127	O13-145	10	TRUSS	352.0	26	N	0	60
878	SOJKA DR	O13-104	O13-105	12	TRUSS	307.7	21	N	0	60
879	SOJKA DR	O13-105	O13-107	12	TRUSS	155.8	21	N	0	60
880	TOWNSHIP AVE	Q15-111	Q15-112	10	PVC	307.6	26	N	0	60
881	SHERI DR	R15-140	R15-144	10	PVC	252.0	26	N	0	60
882	CORTO ST	K13-142	K13-138	12	PVC	55.0	24	N	0	60
883	CORTO ST	K13-148	K13-142	10	PVC	396.0	24	N	0	60
884	FLANAGAN DR	P19-106	P19-105	12	PVC	20.0	14	N	20	50
885	FLANAGAN DR	P19-108	P19-109	12	PVC	381.8	14	N	20	50
886	N WOOD RANCH PKWY	H5-113	H5-106	12	VCP	352.2	19	N	10[+]	50
887	CORTO ST	L13-154	L13-147	12	DIP	155.9	16	N	0	50
888	FLANAGAN DR	P19-102	P19-108	12	PVC	300.0	14	N	10	40
889	SENECA PL	Q18-136	Q18-143	10	PVC	282.7	14	N	10	40
890	BEACHNUT AVE	J13-502	J13-148	8	PVC	129.0	24	N	0	40
891	CORTO ST	K13-158A	K13-157	8	PVC	127.0	23	N	0	40
892	HIGHLAND RD	I7-103	I7-101	12	TRUSS	13.0	17	N	0	30
893	WILDLIFE DR	J7-139	J7-135	12	TRUSS	40.3	17	N	0	30
894	N WOOD RANCH PKWY	H5-106	I5-129	15	PVC	369.8	19	N	0	30
895	N WOOD RANCH PKWY	H5-125	H5-119	10	PVC	383.4	19	N	0	30
896	N WOOD RANCH PKWY	H5-130	H5-125	10	PVC	326.0	19	N	0	30
897	MARTHA MORRISON DR	H5-134	H5-127	12	PVC	308.5	19	N	0	30
898	CHUMASH AVE	Q17-120	Q18-150	10	PVC	140.5	14	N	0	30
899	INDIAN TERRACE DR.	P19-124	P19-125	8	PVC	210.7	9	N	10	20

	Pipe Data									
Priortization Number	Street Name	Start Manhole	End Manhole	Diameter (inches)	Material	Length (feet)	Age (years)	Sag Noted	Modified PACP Score[a]	Total Score[b]
900	INDIAN TERRACE DR.	P19-129	P19-124	8	PVC	231.2	9	N	10	**20**
901	INDIAN TERRACE DR.	P19-130	P19-127	8	PVC	280.9	9	N	10	**20**
902	TIERRA REJADA RD	N6-145	N6-139	10	TRUSS	102.0	0	N	0	**20**
			Total Estimated Length:			**76,317.0**				

Notes:

Cost estimates beyond 20 years can not be reliably prepared and are therefore not included herein.

a) Modified PACP score is the highest structural defect score multiplied by 100 added to the highest O&M defect score mu

b) Total score is the sum of the Modified PACP score and all criticality factors.

* Epoxy-lined ACP

\+ Video was inconclusive and Modified PACP Score represents a minimum score based on the portion of the segment th

Table 3-1: Pipe Sections Needing Routine Cleaning

Line Item	Reference to Prioritization Number[a]	Street Name	Start Manhole	End Manhole	Di-ameter (inches)	Material	Length (feet)	Age (years)	Modified PACP Score[b]	Total Score[c]	O & M Score[d]	Total Crit-icality[e]	Rehab-ilitation Time Frame	Notes
1	76	SYCAMORE DR	M12-111	M12-116	14	ACP	105	42	250	680	5	430	0-3	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, end
2	19	E LOS ANGELES AVE	M16-105	M16-108	24	ACP	484.5	35	350	750	5	400	0-3	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
3	306	YOSEMITE AVE	L19-101	L19-100	14	ACP	280.3	42	50	430	5	380	10-20	Deposits Attached Encrustation, 50 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
4	515	FIRST ST	L8-171	L8-161	12	VCP	323	27	150	320	5	170	10-20	Deposits Attached Grease, 60 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
5	11	E LOS ANGELES AVE	M13-110	M12-113	36	ACP	508	34	340	785	4	445	0-3	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
6	60	GUNNER LN (PVT)	M19-192	M19-191	12	ACP	396.5	42	240	685	4	445	0-3	Deposits Attached Encrustation, 15 % of cross sectional area, from 01 to 03 o´clock, within 8 inch: NO
7	288	FIRST ST	L8-118	L8-106	24	ACP	309	44	40	445	4	405	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
8	35	UNK	N6-100	O6-135	10	ACP	276	43	340	720	4	380	0-3	Deposits Attached Other, 5 % of cross sectional area, from 07 to 08 o´clock, within 8 inch: NO
9	126	N VERA CT	M19-108	M19-122	10	ACP	152.4	42	240	620	4	380	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 08 to 10 o´clock, within 8 inch: NO
10	341	N VERA CT	M19-113	M19-109	10	ACP	143.6	42	40	410	4	370	10-20	Deposits Attached Encrustation, 25 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: YES
11	342	ANASTASIA AVE	M20-117	M19-112	10	ACP	129	42	40	410	4	370	10-20	Deposits Attached Encrustation, 25 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
12	147	ALAMO ST	P15-117A	P15-116	10	ACP	350	31	240	595	4	355	5-10	Deposits Attached Other, 5 % of cross sectional area, from 10 to 11 o´clock, within 8 inch: NO
13	252	PATRICIA AVE	M9-118	M9-105	39	ACP	378.5	35	140	490	4	350	5-10	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, end
14	1	E LOS ANGELES AVE	M17-109	M17-108	24	ACP	433.5	35	540	870	4	330	0-3	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
15	178	ALAMO ST	P15-118	P15-117	10	ACP	450	31	240	570	4	330	5-10	Deposits Attached Ragging, 5 % of cross sectional area, at 06 o´clock, within 8 inch: YES
16	428	FIRST ST	K8-121	K8-109	12	ACP	333	30	40	370	4	330	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 11 to 01 o´clock, within 8 inch: NO, end
17	468	COCHRAN ST	O15-134	O15-135	12	ACP	165	35	40	345	4	305	10-20	Deposits Attached Encrustation, 15 of cross sectional area, at 02 o´clock, within 8 inch: NO, start
18	563	CHRISTINE AVE	M20-151	M20-139	14	ACP	260.7	33	40	295	4	255	10-20	Deposits Attached Encrustation, 15 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: YES, Remark: @ MH
19	571	ROYAL AVE	L8-124	L8-123	18	RCP	387.1	31	40	285	4	245	10-20	Deposits Attached Other, 5 % of cross sectional area, from 03 to 04 o´clock, within 8 inch: NO, start
20	572	ROYAL AVE	L8-127	L8-126	18	RCP	391	31	40	285	4	245	10-20	Deposits Settled Other, 5 % of cross sectional area, from 07 to 08 o´clock, within 8 inch: NO, start
21	650	FIRST ST	L8-161	L8-147	12	VCP	323	27	40	250	4	210	>20	Deposits Attached Grease, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: NO, start
22	534	FIRST ST	K8-102	L8-171	12	VCP	323	27	140	310	4	170	10-20	Deposits Attached Grease, 25 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
23	711	ONYX CIR	P13-126	P13-135	12	PVC	382.2	27	40	200	4	160	>20	Deposits Attached Grease, 5 % of cross sectional area, at 12 o´clock, within 8 inch: NO, start
24	769	EMERALD AVE	P13-133	P13-126	12	PVC	238.8	27	40	150	4	110	>20	Deposits Attached Grease, 5 % of cross sectional area, from 03 to 04 o´clock, within 8 inch: YES, Remark: @ MH
25	823	KAWAI CT	Q18-115	Q18-119	8	PVC	128.3	14	40	100	4	60	>20	Deposits Attached Encrustation, 10 % of cross sectional area, from 01 to 04 o´clock, within 8 inch: YES, Remark: @ MH
26	20	KITSY LN	M19-177	M19-177A	10	ACP	316.4	42	330	750	3	420	0-3	Deposits Attached Encrustation, 10 of cross sectional area, from 07 to 05 o´clock, within 8 inch: YES
27	300	ROYAL AVE	L10-118	L10-117	24	ACP	296.7	45	30	435	3	405	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
28	41	UNK	M15-123	M15-122	20	ACP	380	43	330	710	3	380	0-3	Deposits Attached Grease, 15 % of cross sectional area, from 07 to 11 o´clock, within 8 inch: NO
29	131	ERRINGER RD	L10-106	L10-112	20	ACP	365.3	43	230	610	3	380	3-5	Deposits Attached Encrustation, 10 of cross sectional area, from 09 to 12 o´clock, within 8 inch: YES, Remark: @ MH
30	275	ALAMO ST	P15-115A	P15-114	10	ACP	336	31	130	460	3	330	5-10	Deposits Attached Grease, 5 % of cross sectional area, from 08 to 09 o´clock, within 8 inch: NO
31	437	ANASTASIA AVE	M20-107	M20-106	10	ACP	262	42	30	360	3	330	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 12 to 03 o´clock, within 8 inch: YES
32	440	ROYAL AVE	M15-154	M15-153	12	ACP	423	31	30	360	3	330	10-20	Deposits Attached Grease, 20 % of cross sectional area, from 04 to 08 o´clock, within 8 inch: NO
33	490	E LOS ANGELES AVE	M17-107	M17-106	24	ACP	438	34	30	335	3	305	10-20	Deposits Settled Gravel, 20 % of cross sectional area, from 04 to 06 o´clock, within 8 inch: YES
34	592	ROYAL AVE	L8-128	L8-127	18	RCP	386	31	30	275	3	245	10-20	Deposits Settled Other, 15 % of cross sectional area, from 04 to 09 o´clock, within 8 inch: NO, start
35	719	FIRST ST	L8-147	L8-128	12	VCP	320	27	30	200	3	170	>20	Deposits Attached Grease, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: NO, start
36	804	FLANAGAN DR	Q19-140	Q19-144	10	PVC	313	14	30	110	3	80	>20	Deposits Attached Encrustation, 20 % of cross sectional area, from 12 to 04 o´clock, within 8 inch: YES
37	24	ROYAL AVE	K11-107	K11-106	20	ACP	136.6	43	320	750	2	430	0-3	Deposits Attached Encrustation, 10 % of cross sectional area, from 09 to 04 o´clock, within 8 inch: YES, Remark: @MH
38	315	FIRST ST	L8-106	M8-180	24	ACP	306	44	20	425	2	405	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 07 to 08 o´clock, within 8 inch: NO, end
39	317	ROYAL AVE	L9-139	L8-132	24	ACP	406	44	20	425	2	405	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
40	318	W EASY ST	O7-117	O7-115	20	ACP	353.3	43	20	425	2	405	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 02 to 03 o´clock, within 8 inch: NO
41	37	UNK	N6-130	N6-121	27	ACP	402.7	44	320	720	2	400	0-3	Deposits Attached Encrustation, 5 % of cross sectional area, from 10 to 02 o´clock, within 8 inch: YES, start
42	58	DAMON ST	M18-182	M18-178	14	ACP	400	42	220	610	2	390	3-5	Deposits Attached Encrustation, 10 of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
43	9	WILLIAMS WY	M19-183	M19-181	12	ACP	368.9	42	420	800	2	380	0-3	Deposits Attached Encrustation, 20 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES
44	244	UNK	M18-168	M18-166	16	ACP	134.8	42	120	500	2	380	5-10	Deposits Attached Encrustation, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: NO
45	361	ROYAL AVE	L10-116	L10-115	24	ACP	203.6	45	20	400	2	380	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
46	362	ROYAL AVE	L10-117	L10-116	24	ACP	300	45	20	400	2	380	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
47	363	UNK	M18-171	M18-170	16	ACP	379.1	42	20	400	2	380	10-20	Deposits Attached Encrustation, 50 of cross sectional area, from 07 to 05 o´clock, within 8 inch: YES, Remark: @ MH
48	51	STRATHEARN PL	N6-103	N6-103A	27	ACP	155	44	320	695	2	375	0-3	Deposits Attached Encrustation, 5 % of cross sectional area, from 10 to 02 o´clock, within 8 inch: YES, start
49	148	E LOS ANGELES AVE	M14-115	M13-116	36	ACP	401	34	220	595	2	375	5-10	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, end
50	370	STRATHEARN PL	N6-137	N6-134	27	ACP	354.6	44	20	395	2	375	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: NO, end
51	253	HILLDALE AVE	M13-100	M12-100	10	ACP	256.3	42	120	490	2	370	5-10	Deposits Attached Grease, 5 % of cross sectional area, at 08 o´clock, within 8 inch: NO
52	376	SUNTREE LN	M17-129	M17-132	18	ACP	314.6	42	20	390	2	370	10-20	Deposits Attached Grease, 5 % of cross sectional area, from 09 to 10 o´clock, within 8 inch: NO
53	78	ROYAL AVE	L14-121	L14-122	20	ACP	285.2	31	320	675	2	355	0-3	Deposits Attached Grease, 5 % of cross sectional area, from 05 to 07 o´clock, within 8 inch: YES

Line Item	Reference to Prioritization Number[a]	Street Name	Start Manhole	End Manhole	Di-ameter (inches)	Material	Length (feet)	Age (years)	Modified PACP Score[b]	Total Score[c]	O & M Score[d]	Total Crit-icality[e]	Rehab-ilitation Time Frame	Notes
54	168	DAMON ST	M18-170	M18-169	16	ACP	366.6	42	220	575	2	355	5-10	Deposits Attached Encrustation, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES
55	169	WILLIAMS WY	M19-188	M19-187	12	ACP	326.7	42	220	575	2	355	5-10	Deposits Attached Encrustation, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH
56	409	HILLDALE AVE	M12-104	M12-103	10	ACP	265.9	42	20	375	2	355	10-20	Deposits Attached Grease, 10 % of cross sectional area, from 10 to 02 o´clock, within 8 inch: NO, start
57	410	WILLIAMS WY	M19-181	M19-185	12	ACP	368.9	42	20	375	2	355	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 07 to 11 o´clock, within 8 inch: YES
58	411	GUNNER LN (PVT)	M19-185	M19-193	12	ACP	240	42	20	375	2	355	10-20	Deposits Settled Other, 10 % of cross sectional area, from 05 to 07 o´clock, within 8 inch: NO
59	2	E LOS ANGELES AVE	M15-108	M15-107	30	ACP	491	35	520	870	2	350	0-3	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
60	81	E LOS ANGELES AVE	M14-120	M14-119	30	ACP	528	35	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
61	82	E LOS ANGELES AVE	M15-107	M14-120	30	ACP	456	35	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
62	83	E LOS ANGELES AVE	M12-110	M12-109	36	ACP	489	34	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 07 to 08 o´clock, within 8 inch: NO, end
63	85	E LOS ANGELES AVE	M13-112	M13-111	36	ACP	515	34	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
64	86	E LOS ANGELES AVE	M13-113	M13-112	36	ACP	498	34	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
65	87	E LOS ANGELES AVE	M14-119	M14-118	30	ACP	489	34	320	670	2	350	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
66	179	E LOS ANGELES AVE	M13-116	M13-115	36	ACP	438	34	220	570	2	350	5-10	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
67	446	E LOS ANGELES AVE	M16-108	M16-113	24	ACP	191	35	20	355	2	335	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
68	4	TAPO CANYON RD	P15-100	P15-105	12	ACP	415	35	520	850	2	330	0-3	Deposits Settled Other, 5 % of cross sectional area, from 06 to 07 o´clock, within 8 inch: NO
69	193	UNK	N8-146	N8-144	10	RCP	379.7	41	220	550	2	330	5-10	Deposits Settled Other, 5 % of cross sectional area, from 05 to 07 o´clock, within 8 inch: NO
70	464	KATHERINE ST	M18-169	M18-168	16	ACP	243.6	42	20	350	2	330	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES
71	465	N VERA CT	M19-109	M19-108	10	ACP	303.5	42	20	350	2	330	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 01 to 03 o´clock, within 8 inch: YES, Remark: @ MH
72	103	E LOS ANGELES AVE	M14-117	M14-116	36	ACP	419	34	320	645	2	325	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 03 to 04 o´clock, within 8 inch: NO, end
73	104	E LOS ANGELES AVE	M14-118	M14-117	30	ACP	485	34	320	645	2	325	3-5	Deposits Attached Grease, 5 % of cross sectional area, from 07 to 08 o´clock, within 8 inch: NO, start
74	198	E LOS ANGELES AVE	M13-114	M13-113	36	ACP	515	34	220	545	2	325	5-10	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, end
75	476	E LOS ANGELES AVE	M13-115	M13-114	36	ACP	497	34	20	345	2	325	10-20	Deposits Attached Grease, 5 of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
76	311	E LOS ANGELES AVE	M16-114	M16-114A	24	ACP	293	35	120	425	2	305	10-20	Deposits Attached Grease, 5 % of cross sectional area, at 08 o´clock, within 8 inch: NO, start
77	312	E LOS ANGELES AVE	M17-110	M17-109	24	ACP	105.1	35	120	425	2	305	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, end
78	314	TAPO CANYON RD	Q15-112	Q15-120	12	ACP	328.2	30	120	425	2	305	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 10 to 02 o´clock, within 8 inch: NO, start
79	507	E LOS ANGELES AVE	M15-110	M15-109	24	ACP	485.6	35	20	325	2	305	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
80	511	TAPO CANYON RD	Q15-131	Q15-136	12	ACP	167	30	20	325	2	305	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 10 to 02 o´clock, within 8 inch: NO, end
81	512	TAPO CANYON RD	Q15-144	Q15-154	12	ACP	328.2	30	20	325	2	305	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 08 to 09 o´clock, within 8 inch: NO, start
82	140	ELIZONDO AVE	L11-138	L11-136	10	ACP	286	43	320	600	2	280	3-5	Deposits Attached Encrustation, 5 of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES
83	243	TEXAS AVE	P17-102	P17-106	10	ACP	358	35	220	500	2	280	5-10	Deposits Attached Grease, 5 of cross sectional area, from 10 to 12 o´clock, within 8 inch: NO
84	557	BUCKSKIN AVE	L9-136	L9-144	10	VCP	48	43	20	300	2	280	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 01 to 05 o´clock, within 8 inch: YES
85	559	TRACY AVE	N14-126	N14-139	10	ACP	375.1	36	20	300	2	280	10-20	Deposits Attached Ragging, 5 % of cross sectional area, at 02 o´clock, within 8 inch: NO
86	263	KATHERINE RD.	L20-132A	L20-131	10	ACP	317	33	220	475	2	255	5-10	Deposits Attached Grease, 10 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: YES, Remark: @ MH
87	398	CHRISTINE AVE	L20-127	L20-125	12	ACP	203.3	33	120	375	2	255	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: YES
88	603	ANASTASIA AVE	M20-112	M20-117	10	ACP	220	33	20	275	2	255	10-20	Deposits Attached Grease, 10 % of cross sectional area, from 08 to 11 o´clock, within 8 inch: YES
89	656	UNK	O6-102	P6-119	48	RCP	156.8	35	20	245	2	225	>20	Deposits Attached Encrustation, 5 of cross sectional area, from 09 to 03 o´clock, within 8 inch: YES, start
90	657	UNK	O6-107	O6-102	48	RCP	458.4	35	20	245	2	225	>20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
91	658	UNK	O6-111	O6-107	48	RCP	445.8	35	20	245	2	225	>20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
92	659	UNK	O6-115	O6-111	48	RCP	453.4	35	20	245	2	225	>20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
93	482	AVENIDA SIMI	Q14-144	Q14-143	15	ACP	269.9	20	120	340	2	220	10-20	Deposits Attached Encrustation, 5 % of cross sectional area, from 09 to 03 o´clock, within 8 inch: NO, start
94	383	MADERA RD	O7-101	O7-101A	15	PVC	275	22	220	380	2	160	10-20	Deposits Settled Other, 10 % of cross sectional area, from 04 to 08 o´clock, within 8 inch: YES, start
95	739	MADERA RD	P7-106	P7-109	15	PVC	396	22	20	180	2	160	>20	Deposits Settled Other, 10 % of cross sectional area, from 05 to 07 o´clock, within 8 inch: YES
96	77	CADMAN ST	M14-113	M14-114	12	VCP	176	36	520	675	2	155	0-3	Deposits Attached Grease, 5 % of cross sectional area, from 04 to 05 o´clock, within 8 inch: NO, start
97	491	UNK	J7-104	J7-103	12	TRUSS	361.3	26	220	330	2	110	10-20	Deposits Attached Encrustation, 10 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @MH
98	708	SENECA PL	Q18-121	Q18-125	10	PVC	258.3	14	120	200	2	80	>20	Deposits Attached Encrustation, 20 % of cross sectional area, from 08 to 04 o´clock, within 8 inch: YES, Remark: @ MH

Total Estimated Length: 32,331.80

Notes:

a) This refers back to the *Line Item* column in the prioritization tables.
b) Modified PACP Score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.
c) Total Score is the sum of the Modified PACP Score and all criticality factors.
d) O&M Score is the highest O&M defect score between 1 and 5.
e) Total Criticality refers to the sum of all criticality factors.

Table 3-2: Maintenance Required to Prevent Future SSO Event

Line Item	Reference to Prioritization Number[a]	Street Name	Start Manhole	End Manhole	Di-ameter (inches)	Material	Length (feet)	Age (years)	Modified PACP Score[b]	Total Score[c]	O & M Score[d]	Total Crit-icality[e]	Rehab-ilitation Time Frame	Notes
1	186	UNK	M14-105	M14-128	15	ACP	465.0	42	250	560	5	310	5-10	Obstacles Pipe Material, 50 % of cross sectional area, from 02 to 10 o´clock
2a	455	E EASY ST	N8-141	N8-136	33	ACP	359.0	34	50	350	5	300	10-20	Infiltration Runner, at 01 o´clock, within 8 inch: NO
2b	455	E EASY ST	N8-141	N8-136	33	ACP	359.0	34	50	350	5	300	10-20	Infiltration Gusher, at 03 o´clock, within 8 inch: NO, Remark: pinhole in side of MH
3	221	DAVIDSON LN	M19-128	M19-143	10	RCP	344.7	42	250	520	5	270	5-10	Obstacles Rocks, 50 % of cross sectional area, from 02 to 08 o´clock
4a	655	MARICOPA DR	P18-126	P18-124	10	ACP	219.1	27	50	245	5	195	>20	Roots Fine Lateral, at 02 o´clock, within 8 inch: NO
4b	655	MARICOPA DR	P18-126	P18-124	10	ACP	219.1	27	50	245	5	195	>20	Roots Ball Barrell, from 08 to 10 o´clock, 70 %, within 8 inch: NO
5	681	ERRINGER RD	M10-103	M10-111	33	VCP	88.0	35	50	225	5	175	>20	Obstacles Pipe Material, 90 % of cross sectional area, from 01 to 11 o´clock
6a	573	CHUMASH AVE	P18-102	P18-106	10	PVC	158.2	14	250	280	5	30	10-20	Obstacles Other, 5 % of cross sectional area, from 05 to 09 o´clock, Remark: piece of wood
6b	573	CHUMASH AVE	P18-102	P18-106	10	PVC	158.2	14	250	280	5	30	10-20	Obstacles Rocks, 40 % of cross sectional area, from 03 to 09 o´clock
7	191	SUNTREE LN	M17-116	M17-114	18	ACP	400.0	42	140	555	4	415	5-10	Intruding Sealing Ring Broken, 0 % of cross sectional area, from 10 to 11 o´clock
8a	108	ROYAL AVE	L13-138	L13-143	20	ACP	448.4	43	240	635	4	395	3-5	Obstacles Other, 15 % of cross sectional area, from 05 to 07 o´clock
8b	108	ROYAL AVE	L13-138	L13-143	20	ACP	448.4	43	240	635	4	395	3-5	Obstacles Other, 15 % of cross sectional area, from 05 to 07 o´clock
9a	126	N VERA CT	M19-108	M19-122	10	ACP	152.4	42	240	620	4	380	3-5	Obstacles Other, 15 of cross sectional area, from 05 to 07 o´clock
9b	126	N VERA CT	M19-108	M19-122	10	ACP	152.4	42	240	620	4	380	3-5	Infiltration Runner, at 08 o´clock, within 8 inch: NO
10	331	ERRINGER ST	L10-112	L10-130	20	ACP	362.6	43	40	420	4	380	10-20	Infiltration Weeper, from 09 to 11 o´clock, within 8 inch: YES
11a	143	ERRINGER RD	L10-141	L10-131	20	ACP	354.0	45	240	595	4	355	5-10	Infiltration Runner, at 09 o´clock, within 8 inch: YES
11b	143	ERRINGER RD	L10-141	L10-131	20	ACP	354.0	45	240	595	4	355	5-10	Infiltration Runner, at 09 o´clock, within 8 inch: YES
12a	368	ROYAL AVE	L9-141	L9-139	24	ACP	346.5	44	40	395	4	355	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 08 to 10 o´clock
12b	368	ROYAL AVE	L9-141	L9-139	24	ACP	346.5	44	40	395	4	355	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 01 to 04 o´clock
13a	252	PATRICIA AVE	M9-118	M9-105	39	ACP	378.5	35	140	490	4	350	5-10	Roots Tap Barrell, at 11 o´clock, 5 %, within 8 inch: YES
13b	252	PATRICIA AVE	M9-118	M9-105	39	ACP	378.5	35	140	490	4	350	5-10	Infiltration Runner, from 11 to 01 o´clock, within 8 inch: YES, Remark: @ MH
14a	80	UNK	N6-102	N6-100	10	ACP	396.0	43	340	670	4	330	3-5	Infiltration Runner, at 09 o´clock, within 8 inch: YES
14b	80	UNK	N6-102	N6-100	10	ACP	396.0	43	340	670	4	330	3-5	Infiltration Runner, at 04 o´clock, within 8 inch: YES
15a	177	UNK	M17-132	M17-130	18	ACP	103.0	42	240	570	4	330	5-10	Infiltration Runner, from 09 to 10 o´clock, within 8 inch: YES
15b	177	UNK	M17-132	M17-130	18	ACP	103.0	42	240	570	4	330	5-10	Infiltration Runner, from 01 to 02 o´clock, within 8 inch: YES
15c	177	UNK	M17-132	M17-130	18	ACP	103.0	42	240	570	4	330	5-10	Infiltration Runner, from 10 to 02 o´clock, within 8 inch: YES
16a	88	E EASY ST	N8-136	N8-137	33	ACP	262.0	36	340	665	4	325	3-5	Infiltration Runner, from 02 to 03 o´clock, within 8 inch: YES
16b	88	E EASY ST	N8-136	N8-137	33	ACP	262.0	36	340	665	4	325	3-5	Infiltration Runner, from 10 to 02 o´clock, within 8 inch: YES, Remark: at MH connection
17	90	ROYAL AVE	K12-116	K12-119	20	ACP	284.1	29	340	660	4	320	3-5	Obstacles Other, 20 % of cross sectional area, from 06 to 09 o´clock
18a	196	VENTURA AVE	M8-171	M8-170	24	ACP	356.0	44	240	545	4	305	5-10	Infiltration Dripper, at 12 o´clock, within 8 inch: YES
18b	193	VENTURA AVE	M8-171	M8-170	24	ACP	356.0	44	240	545	4	305	5-10	Infiltration Dripper, from 08 to 04 o´clock, within 8 inch: YES
19a	293	E EASY ST	N7-113	N7-105	39	acp	412.0	35	140	440	4	300	10-20	Infiltration Dripper, at 10 o´clock, within 8 inch: YES
19b	293	E EASY ST	N7-113	N7-105	39	acp	412.0	35	140	440	4	300	10-20	Intruding Sealing Ring Broken, 5 % of cross sectional area, from 11 to 02 o´clock
19c	293	E EASY ST	N7-113	N7-105	39	acp	412.0	35	140	440	4	300	10-20	Infiltration Dripper, from 10 to 01 o´clock, within 8 inch: YES
19d	293	E EASY ST	N7-113	N7-105	39	acp	412.0	35	140	440	4	300	10-20	Infiltration Runner, from 10 to 02 o´clock, within 8 inch: YES, Remark: at dstrm MH
20	484	E EASY ST	N8-137	N8-138	33	ACP	96.0	32	40	340	4	300	10-20	Infiltration Runner, at 12 o´clock, within 8 inch: YES, Remark: at MH
21	483	E EASY ST	N8-138	N8-139	33	ACP	271.0	35	40	340	4	300	10-20	Infiltration Runner, at 01 o´clock, within 8 inch: YES, Remark: at MH
22	205	SYCAMORE DR	O12-132	N12-103	10	ACP	260.0	29	240	535	4	295	5-10	Intruding Sealing Ring, 5 % of cross sectional area, from 08 to 04 o´clock
23	325	LOS ANGELES AVE	M18-127	M18-126	21	ACP	453.0	34	140	420	4	280	10-20	Infiltration Runner, at 09 o´clock, within 8 inch: YES
24	325	LOS ANGELES AVE	M18-132	M18-131	15	ACP	446.0	35	140	420	4	280	10-20	Infiltration Runner, at 10 o´clock, within 8 inch: YES, Remark: @ MH
25a	127	PATRICIA AVE	M10-119	M9-125	33	ACP	505.5	35	340	615	4	275	3-5	Infiltration Weeper, at 10 o´clock, within 8 inch: NO
25b	127	PATRICIA AVE	M10-119	M9-125	33	ACP	505.5	35	340	615	4	275	3-5	Infiltration Runner, at 10 o´clock, within 8 inch: YES
26a	521	E EASY ST	N7-105	N7-105A	39	acp	386.5	35	40	315	4	275	10-20	Infiltration Dripper, at 12 o´clock, within 8 inch: YES, Remark: at MH105A
26b	521	E EASY ST	N7-105	N7-105A	39	acp	386.5	35	40	315	4	275	10-20	Infiltration Runner, at 02 o´clock, within 8 inch: NO, Remark: at MH105
27	568	PATRICIA AVE	M9-119	M9-118	36	ACP	416.5	35	40	290	4	250	10-20	Infiltration Runner, at 12 o´clock, within 8 inch: YES
28	572	ROYAL AVE	L8-127	L8-126	18	RCP	391.0	31	40	285	4	245	10-20	Obstacles Rocks, 15 of cross sectional area, from 07 to 09 o´clock
29	185	ALSCOT AVE	N20-156	M20-109	10	PVC	368.0	42	340	560	4	220	5-10	Infiltration Dripper, from 10 to 12 o´clock, within 8 inch: YES
30a	650	FIRST ST	L8-161	L8-147	12	VCP	323.0	27	40	250	4	210	>20	Obstacles Inuding Thru Wall, 10 % of cross sectional area, from 07 to 09 o´clock, Remark: fiber cable
30b	650	FIRST ST	L8-161	L8-147	12	VCP	323.0	27	40	250	4	210	>20	Obstacles Inuding Thru Wall, 15 % of cross sectional area, from 06 to 10 o´clock
31a	694	MARICOPA DR	P18-124	P18-123	10	ACP	288.6	27	40	210	4	170	>20	Roots Fine Lateral, at 03 o´clock, within 8 inch: NO

Line Item	Reference to Prioritization Number[a]	Street Name	Start Manhole	End Manhole	Di-ameter (inches)	Material	Length (feet)	Age (years)	Modified PACP Score[b]	Total Score[c]	O & M Score[d]	Total Crit-icality[e]	Rehab-ilitation Time Frame	Notes
31b	694	MARICOPA DR	P18-124	P18-123	10	ACP	288.6	27	40	210	4	170	>20	Roots Ball Lateral, at 10 o´clock, 10, within 8 inch: NO
32	750	ROYAL AVE	K12-118	K12-117	20	VCP	265.0	29	40	160	4	120	>20	Obstacles Other, 25 % of cross sectional area, from 03 to 06 o´clock
33a	192	STRATHEARN PL	N6-139	N6-141	10	TRUSS	305.5	22	440	550	4	110	5-10	Infiltration Runner, from 08 to 10 o´clock, within 8 inch: YES, Remark: Around break-in tap
33b	192	STRATHEARN PL	N6-139	N6-141	10	TRUSS	305.5	22	440	550	4	110	5-10	Obstacles Other, 25 % of cross sectional area, from 04 to 08 o´clock, Remark: Unknown obstacle to camera
34	785	FIRST ST	N9-123	N9-131	12	PVC	383.0	17	40	120	4	80	>20	Obstacles Pipe Material, 10 % of cross sectional area, from 05 to 07 o´clock
35	300	ROYAL AVE	L10-118	L10-117	24	ACP	296.7	45	30	435	3	405	10-20	Intruding Sealing Grout, 20 % of cross sectional area, from 09 to 03 o´clock, Remark: at MH connection
36	131	ERRINGER RD	L10-106	L10-112	20	ACP	365.3	43	230	610	3	380	3-5	Obstacles Other, 15 % of cross sectional area, from 04 to 06 o´clock
37a	92	UNK	O7-115	O6-134	20	ACP	366.0	43	330	660	3	330	3-5	Obstacles Pipe Material, 20 % of cross sectional area, from 08 to 05 o´clock
37b	92	UNK	O7-115	O6-134	20	ACP	366.0	43	330	660	3	330	3-5	Obstacles Pipe Material, 10 % of cross sectional area, from 05 to 07 o´clock, start
37c	92	UNK	O7-115	O6-134	20	ACP	366.0	43	330	660	3	330	3-5	Obstacles Pipe Material, 10 % of cross sectional area, from 04 to 07 o´clock, end
37d	92	UNK	O7-115	O6-134	20	ACP	366.0	43	330	660	3	330	3-5	Infiltration Runner, at 08 o´clock, within 8 inch: NO, Remark: INFILTRATION AT WATER LINE
38	489	TAPO ST	O16-128	O16-134	21	ACP	352.2	35	30	335	3	305	10-20	Tap Break-In Defective, at 08 o´clock, 5", within 8 inch: NO, Remark: tap is at 8 o'clock
39a	111	E LOS ANGELES AVE	M11-109	M11-108	33	ACP	478.0	34	330	630	3	300	3-5	Infiltration Dripper, at 11 o´clock, within 8 inch: YES
39b	111	E LOS ANGELES AVE	M11-109	M11-108	33	ACP	478.0	34	330	630	3	300	3-5	Infiltration Dripper, at 12 o´clock, within 8 inch: YES
40	230	VENTURA AVE	M8-170	M8-169	24	ACP	346.0	44	230	510	3	280	5-10	Infiltration Dripper, at 12 o´clock, within 8 inch: YES
41	133	E EASY ST	N8-128	N8-127	36	acp	150.0	35	330	605	3	275	3-5	Infiltration Dripper, at 11 o´clock, within 8 inch: YES, Remark: @ MH
42	236	E EASY ST	N8-127	N8-126	36	acp	400.0	35	230	505	3	275	5-10	Infiltration Dripper, at 11 o´clock, within 8 inch: YES, Remark: very hard to see CMTF
43	380	LOS ANGELES AVE	M18-128	M18-127	21	ACP	350.0	34	130	385	3	255	10-20	Obstacles In Joint, 5 % of cross sectional area, at 05 o´clock, Remark: Metal bar protruding
44	379	E LOS ANGELES AVE	M17-104	M16-105	21	ACP	433.5	34	130	385	3	255	10-20	Obstacles Rocks, 15 of cross sectional area, from 05 to 07 o´clock
45a	592	ROYAL AVE	L8-128	L8-127	18	RCP	386.0	31	30	275	3	245	10-20	Infiltration Dripper, at 12 o´clock, within 8 inch: YES, Remark: near MH
45b	592	ROYAL AVE	L8-128	L8-127	18	RCP	386.0	31	30	275	3	245	10-20	Obstacles Pipe Material, 5 % of cross sectional area, from 04 to 05 o´clock
46	672	KADOTA ST	P16-509	P16-155	10	ACP	177.0	33	30	235	3	205	>20	Roots Fine Lateral, at 02 o´clock, within 8 inch: NO
47a	231	AVENIDA SIMI	Q14-150	Q14-149	8	ACP	301.3	24	330	505	3	175	5-10	Tap Break-In Defective, at 09 o´clock, 6", within 8 inch: NO
47b	231	AVENIDA SIMI	Q14-150	Q14-149	8	ACP	301.3	24	330	505	3	175	5-10	Tap Break-In Defective, at 09 o´clock, 6", within 8 inch: NO
47c	231	AVENIDA SIMI	Q14-150	Q14-149	8	ACP	301.3	24	330	505	3	175	5-10	Tap Factory Made Defective, at 09 o´clock, 6", within 8 inch: NO
48	719	FIRST ST	L8-147	L8-128	12	VCP	320.0	27	30	200	3	170	>20	Infiltration Dripper, at 12 o´clock, within 8 inch: YES, Remark: @ MH
49	378	ERRINGER RD	M10-127	M10-134	12	VCP	396.0	37	230	385	3	155	10-20	Tap Break-In Defective, at 02 o´clock, 6", within 8 inch: NO
50	665	SEQUOIA AVE	J13-109	J13-106	12	PVC	67.0	24	130	240	3	110	>20	Obstacles Other, 20 % of cross sectional area, from 03 to 07 o´clock, Remark: @ MH
51	625	VALLEY GATE RD	I7-119	I7-115	12	TRUSS	94.9	19	230	260	3	30	>20	Tap Break-In Defective, at 02 o´clock, 4", within 8 inch: NO, Remark: OVERCUT
52	316	FIRST ST	L8-129	L8-118	24	ACP	274.0	44	20	425	2	405	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 01 to 03 o´clock
53	315	FIRST ST	L8-106	M8-180	24	ACP	306.0	44	20	425	2	405	10-20	Obstacles Inuding Thru Wall, 5 % of cross sectional area, at 03 o´clock
54	363	UNK	M18-171	M18-170	16	ACP	379.1	42	20	400	2	380	10-20	Infiltration Weeper, from 02 to 03 o´clock, within 8 inch: YES
55	371	STRATHEARN PL	N7-133	N7-132	27	ACP	360.1	44	20	395	2	375	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 10 to 03 o´clock, Remark: at MH
56	376	SUNTREE LN	M17-129	M17-132	18	ACP	314.6	42	20	390	2	370	10-20	Obstacles Other, 5 of cross sectional area, from 06 to 09 o´clock
57	168	DAMON ST	M18-170	M18-169	16	ACP	366.6	42	220	575	2	355	5-10	Infiltration Weeper, at 02 o´clock, within 8 inch: YES
58	265	ROYAL AVE	M14-172	M14-171	12	ACP	424.5	31	120	475	2	355	5-10	Tap Factory Made Defective, at 10 o´clock, 6", within 8 inch: NO, Remark: Protruding
59	401	ROYAL AVE	L10-114	L9-148	24	ACP	421.0	45	20	375	2	355	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 08 to 12 o´clock
60	404	ROYAL AVE	L9-148	L9-147	24	ACP	369.0	45	20	375	2	355	10-20	Intruding Sealing Grout, 15 % of cross sectional area, from 09 to 03 o´clock
61	406	VENTURA AVE	M8-173	M8-172	24	ACP	360.7	44	20	375	2	355	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 09 to 11 o´clock, Remark: at MH
62	409	HILLDALE AVE	M12-104	M12-103	10	ACP	265.9	42	20	375	2	355	10-20	Roots Fine Lateral, from 03 to 09 o´clock, within 8 inch: YES
63	179	E LOS ANGELES AVE	M13-116	M13-115	36	ACP	438.0	34	220	570	2	350	5-10	Obstacles Other, 5 % of cross sectional area, at 03 o´clock
64	433	ALAMO ST	P17-119	P17-118	18	ACP	275.0	35	20	365	2	345	10-20	Intruding Sealing Ring, 0 % of cross sectional area, from 04 to 05 o´clock
65	189	E LOS ANGELES AVE	M11-105	M10-104	33	ACP	471.0	34	220	560	2	340	5-10	Intruding Sealing Ring Broken, 5 of cross sectional area, from 01 to 02 o´clock
66	193	UNK	N8-146	N8-144	10	RCP	379.7	41	220	550	2	330	5-10	Intruding Sealing Ring, 5 of cross sectional area, from 08 to 04 o´clock
67	285	ANASTASIA AVE	M20-109	M20-108	10	ACP	258.0	42	120	450	2	330	5-10	Intruding Sealing Grout, 10 % of cross sectional area, from 08 to 04 o´clock
68	462	ROYAL AVE	L9-145	L9-145A	24	ACP	116.0	45	20	350	2	330	10-20	Intruding Sealing Grout, 10 % of cross sectional area, from 01 to 04 o´clock, Remark: at MH
69	466	ALAMO ST	P16-146	P16-145	15	ACP	446.1	35	20	350	2	330	10-20	Intruding Sealing Ring, 0 % of cross sectional area, from 07 to 08 o´clock
70	464	KATHERINE ST	M18-169	M18-168	16	ACP	243.6	42	20	350	2	330	10-20	Infiltration Weeper, at 01 o´clock, within 8 inch: YES
71	463	BOLIVAR CT	M14-104	M14-107	12	ACP	242.0	42	20	350	2	330	10-20	Obstacles Other, 5 % of cross sectional area, from 02 to 06 o´clock
72	102	E LOS ANGELES AVE	M13-111	M13-110	36	ACP	500.0	34	320	645	2	325	3-5	Intruding Sealing Ring, 5 of cross sectional area, from 12 to 01 o´clock
73	474	E LOS ANGELES AVE	M9-104	M9-103	39	ACP	310.0	35	20	345	2	325	10-20	Intruding Sealing Ring Broken, 4 of cross sectional area, from 08 to 04 o´clock
74	509	LOS ANGELES AVE	M19-127	M19-126	18	ACP	492.0	35	20	325	2	305	10-20	Obstacles In Joint, 5 % of cross sectional area, at 07 o´clock, Remark: rebar? tap root?

Line Item	Reference to Prioritization Number[a]	Street Name	Start Manhole	End Manhole	Di-ameter (inches)	Material	Length (feet)	Age (years)	Modified PACP Score[b]	Total Score[c]	O & M Score[d]	Total Crit-icality[e]	Rehab-ilitation Time Frame	Notes
75	507	E LOS ANGELES AVE	M15-110	M15-109	24	ACP	485.6	35	20	325	2	305	10-20	Intruding Sealing Ring, 5 % of cross sectional area, from 10 to 12 o´clock
76	510	ALAMO ST	P16-147	P16-146	18	ACP	441.9	35	20	325	2	305	10-20	Roots Tap Connection, at 10 o´clock, 20 %, within 8 inch: NO
77	116	ERRINGER RD	M10-103	M10-110	33	ACP	72.0	35	320	620	2	300	3-5	Obstacles Pipe Material, 90 % of cross sectional area, from 01 to 11 o´clock
78	121	E LOS ANGELES AVE	M12-111	M12-110	36	ACP	494.0	34	320	620	2	300	3-5	Obstacles Pipe Material, 95 % of cross sectional area, from 12 to 12 o´clock
79	140	ELIZONDO AVE	L11-138	L11-136	10	ACP	286.0	43	320	600	2	280	3-5	Intruding Sealing Other, 5 % of cross sectional area, from 08 to 04 o´clock
80	242	TAPO CANYON RD	O15-126	O15-131	12	ACP	214.0	35	220	500	2	280	5-10	Obstacles In Joint, 5 % of cross sectional area, at 07 o´clock
81	357	LOS ANGELES AVE	M19-123	M18-132	15	ACP	438.0	35	120	400	2	280	10-20	Intruding Sealing Ring Broken, 0 % of cross sectional area, from 03 to 04 o´clock
82	398	CHRISTINE AVE	L20-127	L20-125	12	ACP	203.3	33	120	375	2	255	10-20	Infiltration Weeper, from 10 to 01 o´clock, within 8 inch: YES
83	313	ERRINGER RD	M10-111	M10-116	12	ACP	312.0	37	20	275	2	255	10-20	Obstacles In Joint, 5 % of cross sectional area, from 03 to 09 o´clock
84	596	KADOTA ST	O16-116	O16-127	10	ACP	395.0	35	20	275	2	255	10-20	Obstacles Other, 5 % of cross sectional area, at 04 o´clock, Remark: REBAR
85	614	PATRICIA AVE	M10-122	M10-121	33	ACP	468.4	35	20	270	2	250	>20	Infiltration Weeper, at 10 o´clock, within 8 inch: YES
86	619	ROYAL AVE	L8-123	L8-122	18	RCP	377.9	31	20	265	2	245	>20	Obstacles Other, 5 % of cross sectional area, from 10 to 02 o´clock
87	94	UNK	O13-126	O13-148	10	RCP	399.1	33	420	655	2	235	3-5	Tap Factory Made Defective, at 02 o´clock, 6", within 8 inch: NO
88a	454	TEXAS AVE	P17-106	P17-110	15	ACP	382.0	35	120	350	2	230	10-20	Intruding Sealing Ring Hanging, 0 % of cross sectional area, from 10 to 11 o´clock
88b	454	TEXAS AVE	P17-106	P17-110	15	ACP	382.0	35	120	350	2	230	10-20	Obstacles In Joint, 5 of cross sectional area, at 08 o´clock
89	651	BUCKSKIN AVE	L9-112	L9-125	10	VCP	256.0	43	20	250	2	230	>20	Intruding Sealing Grout, 10 of cross sectional area, from 03 to 05 o´clock
90	481	LEMON DR	P14-107	P14-116	15	ACP	308.0	24	120	340	2	220	10-20	Tap Factory Made Defective, at 10 o´clock, 4", within 8 inch: NO, Remark: OFFSET
91	669	ROSALIE ST	N14-161A	M14-106	10	PVC	283.0	42	20	240	2	220	>20	Intruding Sealing Ring, 10 % of cross sectional area, from 02 to 04 o´clock
92	666	E EASY ST PARKING LOT	N7-104	N7-100	12	RCP	396.0	43	20	240	2	220	>20	Intruding Sealing Ring Broken, 0 % of cross sectional area, from 02 to 03 o´clock
93	668	DAVIDSON LN	M19-143	M19-157	10	RCP	233.9	42	20	240	2	220	>20	Infiltration Weeper, from 12 to 04 o´clock, within 8 inch: YES
94	215	ERRINGER RD	O10-132	O10-155	10	ACP	330.4	36	320	525	2	205	5-10	Obstacles Rocks, 5 % of cross sectional area, at 06 o´clock
95	682	N JUSTIN AVE	N11-138	N11-149	10	ACP	261.0	39	20	225	2	205	>20	Tap Factory Made Defective, at 02 o´clock, 6", within 8 inch: NO, Remark: Protruding tap seal material
96	356	UNK	J5-129	J5-125	18	VCP	288.1	20	220	400	2	180	10-20	Roots Fine Barrell, at 10 o´clock, within 8 inch: YES, Remark: in crack
97	740	MADERA RD	P7-109	O7-101	15	PVC	400.0	22	20	180	2	160	>20	Obstacles In Joint, 1 % of cross sectional area, at 09 o´clock
98	262	STOW ST	N18-117	N18-123	10	VCP	225.0	37	320	475	2	155	5-10	Obstacles Rocks, 5 of cross sectional area, at 06 o´clock
99	591	MARVEL AVE	N10-104	N10-112	12	VCP	243.0	37	120	275	2	155	10-20	Intruding Sealing Ring, 5 % of cross sectional area, from 09 to 02 o´clock
100	742	MARVEL AVE	N10-112	N10-119	12	VCP	240.5	37	20	175	2	155	>20	Obstacles In Joint, 10 % of cross sectional area, from 06 to 12 o´clock, Remark: Stick collecting debris
101a	675	SEQUOIA AVE	K13-172A	K13-158	10	PVC	39.0	24	120	230	2	110	>20	Obstacles Other, 0 of cross sectional area, at 02 o´clock, start, Remark: rope tied to rung in MH
101b	675	SEQUOIA AVE	K13-172A	K13-158	10	PVC	39.0	24	120	230	2	110	>20	Obstacles Other, 0 % of cross sectional area, at 03 o´clock, end, Remark: rope
102a	778	FITZGERALD RD	J13-138	J13-136	12	PVC	236.0	24	20	130	2	110	>20	Obstacles Rocks, 5 % of cross sectional area, at 06 o´clock, start
102b	778	FITZGERALD RD	J13-138	J13-136	12	PVC	236.0	24	20	130	2	110	>20	Obstacles Rocks, 5 % of cross sectional area, at 06 o´clock, end
103	779	CORTO ST	K13-115	K13-105	12	PVC	263.9	24	20	130	2	110	>20	Obstacles Other, 1 % of cross sectional area, at 05 o´clock, Remark: Rod or Rebar
104	506	MARVEL AVE	O10-162	N10-100	12	VCP	344.5	37	220	325	2	105	10-20	Infiltration Weeper, at 09 o´clock, within 8 inch: YES
105a	505	MARVEL AVE	N10-150	N10-159	12	VCP	237.0	37	220	325	2	105	10-20	Intruding Sealing Ring, 5 % of cross sectional area, from 08 to 02 o´clock
105b	505	MARVEL AVE	N10-150	N10-159	12	VCP	237.0	37	220	325	2	105	10-20	Obstacles Other, 5 % of cross sectional area, at 12 o´clock
106	784	MARVEL AVE	O10-158	O10-162	12	VCP	209.0	37	20	125	2	105	>20	Intruding Sealing Ring Broken, 0 of cross sectional area, from 09 to 10 o´clock
107	709	SENECA PL	Q18-143	Q17-120	10	PVC	370.0	14	120	200	2	80	>20	Intruding Sealing Ring, 5 % of cross sectional area, from 12 to 12 o´clock
108	735	SOJKA DR	O13-102	O13-104	12	TRUSS	319.1	21	120	180	2	60	>20	Intruding Sealing Grout, 5% of cross sectional area, at 11 o'clock
109	885	FLANAGAN DR	P19-108	P19-109	12	PVC	381.8	14	20	50	2	30	>20	Obstacles Other, 5 % of cross sectional area, from 03 to 09 o´clock, Remark: debris
110a	182	GUNNER LN (PVT)	M19-193	M19-192	12	ACP	281.8	42	210	565	1	355	5-10	Roots Fine Lateral, at 12 o´clock, within 8 inch: NO
110b	182	GUNNER LN (PVT)	M19-193	M19-192	12	ACP	281.8	42	210	565	1	355	5-10	Roots Fine Lateral, at 12 o´clock, within 8 inch: NO
111	180	UNK	P16-136	P16-135	10	ACP	102.6	44	210	565	1	355	5-10	Roots Fine Connection, from 09 to 03 o´clock, within 8 inch: YES, Remark: @ MH
112	744	MARICOPA DR	P18-125	P18-127	10	PVC	255.6	26	110	170	1	60	>20	Roots Fine Connection, at 02 o´clock, within 8 inch: NO
113	474	UNK	M17-127	M17-126	16	ACP	183.0	42	0	345	0	345	10-20	Obstacles Other, 10 of cross sectional area, from 05 to 07 o´clock
114	642	LOS ANGELES AVE	M19-128	M19-127	18	ACP	481.9	35	0	255	0	255	>20	Obstacles Rocks, 50 % of cross sectional area, from 02 to 08 o´clock
				Total Estimated Length:			**36,762.0**							

Notes:

a) This refers back to the *Line Item* column in the prioritization tables.
b) Modified PACP Score is the highest structural defect score multiplied by 100 added to the highest O&M defect score multiplied by 10.
c) Total Score is the sum of the Modified PACP Score and all criticality factors.
d) O&M Score is the highest O&M defect score between 1 and 5.
e) Total Criticality refers to the sum of all criticality factors.