

Sewage Spill Reduction Action Plan

Summary Progress Report Fiscal Year 2018-2019

Alto Sanitary District

In Response to
Docket No.: CWA-309(a)-08-030

12/29/19

Bill Hansell
District Manager

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Date: 12/29/19

Bill Hansell
District Manager
Alto Sanitary District

Table of Contents

Section 1	Sewer System Cleaning and Root Control Program	1-1
1.1	Compliance Order Requirement	1-1
1.2	Annual Report for Sewer System Cleaning and Root Control Program.....	1-1
1.2.1	Activities Completed During Previous Annual Cycle	1-1
1.2.2	Description of Success of Sewer Cleaning and Root Control Program	1-2
	Table 1-1 SSO Statistics	
	Table 1-2 SSO Statistics for Root Related SSO's	
	Table 1-3 Paperwork Requirements for Cleaning Records/Emergency Response	
1.2.3	Program Changes	1-5
Section 2	Pump Station Reliability Certification	2-1
2.1	Compliance Order Requirement	2-1
2.2	Annual Report for Pump Station Reliability Certification.....	2-1
Section 3	Sewer Pipe and Maintenance Hole Inspection and Condition Assessment	3-1
3.1	Compliance Order Requirement	3-1
3.2	Annual Report for Sewer Pipe and Maintenance Hole Inspection and Condition Assessment	3-1
3.2.1	Sewer Condition Assessment Findings of FY2016-17	3-1
3.2.2	Inspection Plan for Next Annual Cycle.....	3-1
Section 4	Flow Monitoring Results	4-1
4.1	Compliance Order Requirement	4-1
4.2	Annual Report of Flow Monitoring Results.....	4-1
Section 5	Infrastructure Renewal Program	5-1
5.1	Compliance Order Requirement	5-1
5.2	Annual Report for Infrastructure Renewal Program	5-1
5.2.1	Sewer Repair, Rehabilitation and Replacement Activities Completed.....	5-1
5.2.2	Projects Planned for Completion Next Annual Cycle	5-2
5.2.3	Current Long Term CIP for Gravity Sewers	5-2

LIST OF TABLES

Table 1-1: SSO Statistics	1-2
Table 1-2: SSO Statistics for Root-Related SSOs	1-3
Table 1-3: Paperwork Requirements for Cleaning Records /Emergency Response	1-4
Table 4-1: Calculated and Tabulated Flow Statistics (Previously Reported)	4-1
Table 5-2: Pipe and Structure Repairs Performed in Prior Years	5-1

LIST OF ATTACHMENTS**ATTACHMENT A**

Alto Sanitary District Capital Improvement Project (CIP) List
Alto Sanitary District Capital Improvement Project (CIP) Map

ATTACHMENT B

Alto Sanitary District Sewer Cleaning Map
Alto Sanitary District Pipe Cleaning Schedule

ATTACHMENT C

Sanitary Sewer System KEY Map
Sanitary Sewer System page A-2
Sanitary Sewer System page A-3
Sanitary Sewer System page B-2
Sanitary Sewer System page B-3

ATTACHMENT D

Alto Sanitary District Ordinance 2016-01
Alto Sanitary District FY2018-19 Budget

List of Abbreviations

ADDWF	Average Daily Dry Weather Flow
ADDF	Also see ADDWF
ADWWF	Average Daily Wet Weather Flow
Alto	Alto Sanitary District
Almonte	Almonte Sanitary District
CCTV	Closed Circuit Television
District	Alto Sanitary District (also see Alto)
EPA	U.S. Environmental Protection Agency
GWDR	Statewide General Waste Discharge Requirements
HDPE	High Density Polyethylene
HVSD	Homestead Valley Sanitary District
I/I or I&I	Infiltration and Inflow
Mill Valley	City of Mill Valley
MH	Maintenance Hole or Man Hole
NASSCO	National Association of Sewer Service Companies
O&M	Operations and Maintenance
OERP	Overflow Emergency Response Plan
Order	EPA Order for Compliance
PS	Pump Station
RBSD	Richardson Bay Sanitary District
RH	Rod Hole
SASM	Sewerage Agency of Southern Marin
SSO	Sanitary Sewer Overflow
SSMP	Sewer System Management Plan
SSRAP	Sewage Spill Reduction Action Plan (Submitted October 15, 2008)
SSRAP – Volume II	Sewage Spill Reduction Action Plan – Volume II
SWRCB	State Water Resources Control Board
TCSD	Tamalpais Community Services District

Section 1 Sewer System Cleaning and Root Control Program

1.1 Compliance Order Requirement

The Amended Order for Compliance (Docket No. CWA-309(a)-08-030) Paragraph III.A.3, Sewer System Cleaning and Root Control Program, states as follows:

“Beginning 2009, by October 15 of each year, SASM and the member agencies each shall submit an annual report to EPA documenting activities conducted under that agency’s sewer cleaning and root control program during the previous annual cycle, including miles of pipe cleaned as part of the routine and hot spot cleaning programs and miles of pipe treated by each method used for controlling roots. SASM and the member agencies each shall include a description of the success of the sewer cleaning and root control program at preventing blockages and sewage overflows as well as any changes to be made to the program to further reduce spills.”

1.2 Annual Report for Sewer System Cleaning and Root Control Program

1.2.1 Activities Completed During Previous Annual Cycle

Fiscal year 2018-2019 was the Alto Sanitary District’s tenth year of an organized rotating cleaning program with a goal of cleaning a minimum of one third of the District’s ~16,500 feet of sewers each year. This cleaning program was instituted as a comprehensive cleaning program starting in Fiscal year 2009-2010, as budget allowed, and has been revised annually to improve system reliability and reduce SSOs.

Additionally, hot spot sewers including several of the easement sewers known for repeated root intrusions and some of the flat sewer lines with poor grade known for grit accumulation were cleaned at a minimum of once a year. It was found that some of the most problematic pipes could not last one year so the cleaning frequency on these pipes was increased to six-month and, in some cases, five-month schedules. Root control is primarily performed using a combination of hydro flushing and rodding.

The Alto Sanitary District is divided into four cleaning criteria for cleaning purposes: A, B, C and D, with each letter assigned to a frequency. For example, pipes classified A are cleaned every three (3) years, while E is every five (5) months. This amounts to a three-year maximum cleaning cycle. Some sections of pipe, however, are cleaned on a two-year cycle while others, as stated above, are cleaned more frequently. The cleaning frequency for sections of pipe is revised after major CIP projects or spot repairs. Typically, the sections with newer plastic pipes were set up to be cleaned on a three year flushing schedule unless sag or grease conditions occur in the pipe.

The budget improved in 2016 due to a Proposition 218 rate increase. Completion of the FY18-19 CIP project (outlined in Attachment A) replaced some very problematic sewers pipes. The FY18-19 maintenance reports show 5,107 feet cleaned or 31% of the District total. Cleaning tables for pipe segments are shown in Attachment B.

1.2.2 Description of Success of Sewer Cleaning and Root Control Program

Table 1-1 (below) shows the overall SSO statistics for Alto over the past eleven fiscal years for data previously submitted.

Table 3-1: SSO Statistics

Fiscal Year	No. of SSOs	Volume of SSOs (total gallons)
2008-09	5	400
2009-10	6	170
2010-11	0	0
2011-12	1	200
2012-13	5	85
2013-14	2	10
2014-15	2	65
2015-16	2	60
2016-17	0	0
2017-18	1	75
2018-19	0	0

Table 1-2 (below) shows the SSO statistics for root-related SSOs for the past 11 years.

Table 1-2:SSO Statistics for Root-Related SSOs

Fiscal Year	No. of SSOs from Roots	Volume of SSOs (total gallons)
2008-09	5	400
2009-10	6	170
2010-11	0	0
2011-12	0	0
2012-13	5	85
2013-14	2	10
2014-15	2	65
2015-16	2	60
2016-17	0	0
2017-18	0	0
2018-19	0	0

The District has put procedures in place that ensure better consistency in documentation by the cleaning crews. The paperwork is submitted to the Engineer every month for review and entry into the GIS system. The Engineer also re-examines the SSO reports to confirm that they were reported correctly. This helps to ensure the reporting to the state is accurate. Table 1-3 (below) shows CCTV, cleaning, work order and SSO events and the paperwork submittals required.

Alto has converted the Implemented Structured Maintenance Management system to a GIS Database and Map System. The District has been tracking the results of sewer cleaning and has been able to use these results along with sewer inspections and smoke testing to clean, repair and maintain known problems and increase maintenance where on-going maintenance issues are identified. This effort is particularly important because there is not sufficient budget to repair every old sewer in the District at once.

Table 1-3: Paperwork Requirements for Cleaning Records and Emergency Response

ALTO SANITARY DISTRICT CLEANING RECORD and SSO FORM REQUIREMENTS SERVICE CONTRACTOR SUBMITTAL TO DISTRICT							
Cleaning Event	WORK REPORT (INVOICE)	CLEANING PROGRAM REPORT (TABLE)	STOPPAGE FORM	REPAIR REPORT	SSO REPORT-2 PAGES	DISTRICT ACTION REQUIRED	
Special Cleaning/ CCTV	✓	If Required				Review	Annual Summary
Cleaning Program (Seasonal)	✓	✓				Review	Annual Summary
Stoppage (Emergency)	✓	Check Hot List	✓	If Required	✓	Review	Annual Summary
Repair (Spot/ Emergency)	✓	Check Hot List		✓	If Required	Review	Annual Summary
SSO (Emergency)	✓	Check Hot List	✓	If Required	✓	Complete Report	Submit to State
Monthly Reports to District Engineer--->	✓	✓	✓	✓	✓	GIS MAP Data Entry Quarterly	Verify State Data Correct Bi-Monthly

Alto has seen improvements to the cleaning efficiency as a result of having more effective scheduling maps and information for the field crews as evidenced by a reduced number of SSO's in recent years.

Alto has made significant reductions to I&I as a result of spot repairs and CIP projects targeting the worst lines found through CCTV and Smoke Testing. Many of these areas had significant root intrusion. By repairing these areas the risk of SSOs and major inflows will be significantly reduced.

1.2.3 Program Changes

As discussed in Section 1.2.1, in an effort to reduce the spike in SSOs, the cleaning program was modified after the CIP replaced pipes so several pipes were removed from the hotspot. Other old pipes have increased cleaning and are moved to the Hot Spot list as required to ensure roots are removed to reduce SSOs. Also the CCTV of suspect pipes has been increased to monitor problem areas.

Starting in 2012, Alto Sanitary District implemented a Lateral Repair Permit which allows for more comprehensive tracking of pipe repairs and home remodels, and allows the District to work closely with the County of Marin Building Department to ensure quality pipe repairs are being performed.

In 2015, the Alto Sanitary District implemented a Lateral Ordinance that requires property owners to submit to the District a CCTV lateral inspection whenever homes are sold, remodels valued at \$50,000 or more over a three-year period are undertaken, when the District is repairing sewer mains, and when an overflow or malfunction of the sewer lateral occurs. In FY18/19, (24) Notices to Repair, (21) new Lateral Permits, and (17) Certificates of Compliance were issued for lateral repairs and replacements. While laterals are privately owned from the main to the building connection point, the District chose to proactively repair all lower laterals as part of the FY17-18 CIP scope of work. This reduces I & I into the collection system.

Previously, the District approved new Rate and Fee Structures to increase revenue to better fund the cleaning, CIP programs, and pending SASM treatment plant improvements. The Rates and Fee were approved by public hearing process, and Ordinances. Ordinance 2016-01 increasing Rates (also called Service Charge) was approved June 22, 2016. Attachment D includes the Ordinance and the FY2018-19 Budget.

Section 2 Pump Station Reliability Certification

2.1 Compliance Order Requirement

The Amended Order for Compliance (Docket No. CWA-309(a)-08-030) Paragraph III.C.4, Pump Station Reliability Certification, states as follows:

“Beginning 2008, by October 15 of each year, SASM and the member agencies each shall submit an annual report to EPA documenting pump station and force main renovations, and upgrades during the previous year and describing projects to be completed in the coming annual cycle.”

2.2 Annual Report for Pump Station Reliability Certification

This annual report does not pertain to Alto Sanitary District since Alto does not own or operate any pump stations.

Section 3 Sewer Pipe and Maintenance Hole Inspection and Condition Assessment

3.1 Compliance Order Requirement

The Amended Order for Compliance (Docket No. CWA-309(a)-08-030) Paragraph IV.A.3, Sewer Pipe and Maintenance Hole Inspection and Condition Assessment, states as follows:

“By October 15, 2009, SASM and the member agencies each shall submit an annual progress report to EPA summarizing the inspection methods and findings of the sewer pipe condition assessments conducted during the previous year and the estimated miles of sewer pipe and number of maintenance holes to be inspected during the current year.”

3.2 Annual Report for Sewer Pipe and Maintenance Hole Inspection and Condition Assessment

3.2.1 Sewer Condition Assessment Findings of FY2017-18

The FY 2018-19 cleaning and inspection crews worked on and submitted reports for approx. 5,107 lin. feet of pipe. This indicates 31% of the District's facilities were cleaned in this time period.

By keeping a consistent maintenance schedule and a consistent program of annual inspection through CCTV and Smoke Testing, the District is confident that it will continue to be in compliance with the original EPA Order recommendations.

This information is used on an annual basis as part of the criteria for defining the Capital Improvement Projects for the District short term and long term programs and budgets. See Attachment A.

Annual Cleaning and CIP projects trigger regular re-evaluations and changes to the CIP. Urgent problems are dealt with under emergency action.

3.2.2 Inspection Plan for Next Annual Cycle

Alto has inspected most of the gravity sewer pipes at least twice now. CCTV work is ongoing as a critical tool for minimizing SSOs.

Section 4 Flow Monitoring Results

4.1 Compliance Order Requirement

The Amended Order for Compliance (Docket No. CWA-309(a)-08-030) Paragraph IV.B.2, Capacity Assessment, states as follows:

“By October 15, 2009 and each year thereafter, SASM and the member agencies each shall submit a report to EPA providing the results of collection system flow monitoring, including average dry weather flow and peak wet weather flow from each of the member agency collection systems.”

4.2 Annual Report of Flow Monitoring Results

Flow monitoring was completed through a joint effort with SASM and documented in The 2014-2015 Sewer Flow Data RDII Evaluation by ADS Environmental Services. The report is available directly from SASM.

Preliminary results from the flow studies and modeling have been used to guide CIP projects, including pipe repairs and the SASM owned Sutton Manor pump station on Lomita Drive. The Sutton Manor pump station pumps all the sewage from Alto Sanitary District to the treatment plant.

SASM has rebuilt the pump station on Lomita Drive now and installed a new flow meter, so Alto flows can be reviewed continuously now and into the future.

Table 4-1: Calculated and Tabulated Flow Statistics (Previously Reported)

Assumed Condition	Gallons Flow Per EDU (Assumed - gal per day)	Method: EDUs Billed, Measured or Calculated	Volume of Flow (Total MGD)
Design Standard for New Pipes Average Usage	180	581 EDUs	0.1046
Observed Average Usage*	153.5	581 EDUs	0.0892
Estimated ADDWF	121	581 EDUs	0.0705
Observed Peak Flows**	132	Flow Meter	0.075
Calculated ADWWF- Storm Event**	464	Calculated	0.270

(*) Flow measurements from Marin Municipal Water District SASM Bi-monthly report, converted from 13.25 CCF (hundred cubic feet) and estimated winter 10.0 CCF usage for Alto residents.

(**) Data from the RDII report with 755 EDUs measured which includes approximately 187 Mill Valley EDUs resulted in the flow value of 0.10 measured and reported in the **2014-2015 Sewer Flow Data RDII Evaluation** is approximately 25% too high. ADWWF is a calculated value using the average Alto peaking factors of 3.5:1 as listed in the referenced flow evaluation.

Section 5 Infrastructure Renewal Program

5.1 Compliance Order Requirement

The Amended Order for Compliance (Docket No. CWA-309(a)-08-030) Paragraph VI.B, Infrastructure Renewal, states as follows:

Beginning 2008, by October 15 of each year, SASM and the member agencies each shall submit an annual report to EPA documenting sewer repair, rehabilitation or replacement activities completed in the previous year; describing projects to be completed in the coming annual cycle; and providing the current 10-year Capital Improvement Plan (CIP) and any updates to that CIP.

5.2 Annual Report for Infrastructure Renewal Program

As repairs are made to the District's infrastructure, progress is documented. Planning for the Infrastructure Renewal Program is determined by the number of feet of pipe that have been rehabilitated or replaced and by the number of feet that will be rehabilitated or replaced, as well as by the number of maintenance holes repaired, rehabilitated, or replaced. Project progress and plans are documented by Fiscal Year.

5.2.1 Sewer Repair, Rehabilitation and Replacement Activities Completed

Table 5-1 lists repairs and replacements completed in Fiscal Year 2018-19.

Table 5-1: Pipe and Structure Repairs Performed in the Prior Year

Fiscal Year	Structure ID	Location	Description
CIP 2018-19	330.01-300.07	Street	Walker St
CIP 2018-19	330.21-330.01	Street	Walker St
CIP 2018-19	211.01-SM17/SM15	Easement	Shell Rd to Meadow Dr
CIP 2018-19	310.01-300.07	Easement	Central Dr Easement
CIP 2018-19	310.03-310.01	Easement	Central Dr Easement
CIP 2018-19	310.05-310.03	Easement	Central Dr Easement
CIP 2018-19	321.01-320.01	Street	Thomas Dr
CIP 2018-19	323.01-320.01	Street	Thomas Dr
CIP 2018-19	323.03-323.01	Street	Thomas Dr

5.2.2 Projects Planned for Completion Next Annual Cycle

During FY 2018-19, the CIP budget was expanded to approx. \$475,000. The projected CIP budget for each of the next five years will average +/- \$342,000. This funding will go to sewer main replacements. Current fees will allow rehabilitation to be projected forward as a flat budget with annual costs of construction increasing each year.

The District has identified and prioritized the sewer repair, rehabilitation, and replacement projects that are required to restore the collection system to a sound status over the next 10 years. Currently, Alto has plans for sewer repair/rehabilitation ranging annually from 500 feet to 1500 feet of pipe. In FY18-19, Alto was able to complete +/-1600 LF of repairs due to a favorable bid price.

Alto has prepared a CIP List of rehabilitation needs with a plan projected for the next 10 years (see Attachment A.) The prior replacement schedule was accelerated due to previous projects completing more than the anticipated footage.

5.2.3 Current Long-Term CIP for Gravity Sewers

The Alto CIP long-term plan and CIP budget projected costs presented here are for Alto capital needs only and do not include any details of the costs of the SASM treatment plant improvements proposed. These estimated costs were incorporated into the 218 rate increase completed previously.

The nature of how the Capital Improvement Project pipes are laid out in the district may require spending to increase or decrease in alternating fiscal years between 500 ft and 1000 ft replacement cycles. At that rate, the District pipe CIP schedule will have all the pipes replaced on a 50 year life cycle.

Since the FY2018-19 CIP bid price was better than expected, the District maximized the scope of the project. Lateral Ordinance administration time and costs were larger than expected, though. Therefore, more funding was spent on the CIP than previously planned. Fortunately, fees for private lateral permits seem to be covering the District's administration expenses. In certain years, savings for reserves and SASM increases may result in adjustments to the CIP funding.

Finally, the District has been paying for an estimated \$27M SASM treatment plant upgrade. By EDU count, Alto is 3.57% of SASM which results in a District liability of \$600,000 to \$1,000,000 for the proposed treatment plant improvements. The actual costs and the terms for repayment will be realized as the project proceeds.

**Attachments for Alto Sanitary District
FY2018-19 Sewage Spill Reduction Action Plan**

ATTACHMENT A

Alto Sanitary District Capital Improvement Projects (CIP) List

Alto Sanitary District Capital Improvement Projects (CIP) Map

Alto Sanitary District

Capital Improvement Project (CIP) Planning To FY2028/29
Updated 12/27/2019

NOTES:

_ Present Value Level Budgeting Projection
_ District Total Pipe Footage ~ 16,500 LF

HISTORY:

_ District previously replaced ~5,000+ LF (~12 years or less new heavy guage plastic)
_ Developer installed Central Court in 1986 ~29 years old ~2,150 LF (SDR 35 light guage plastic, showing age)
_ Remaining pipe to replace: 9,229 LF (not counting Central Court)

GOALS:

_ Replace 9,229 -to- 11,379 LF by 2029. Yearly average = 769 LF to 1,137 LF
_ Estimated Pipe Cost/Ft + 30% Contingencies =
Easement \$365
Street \$455

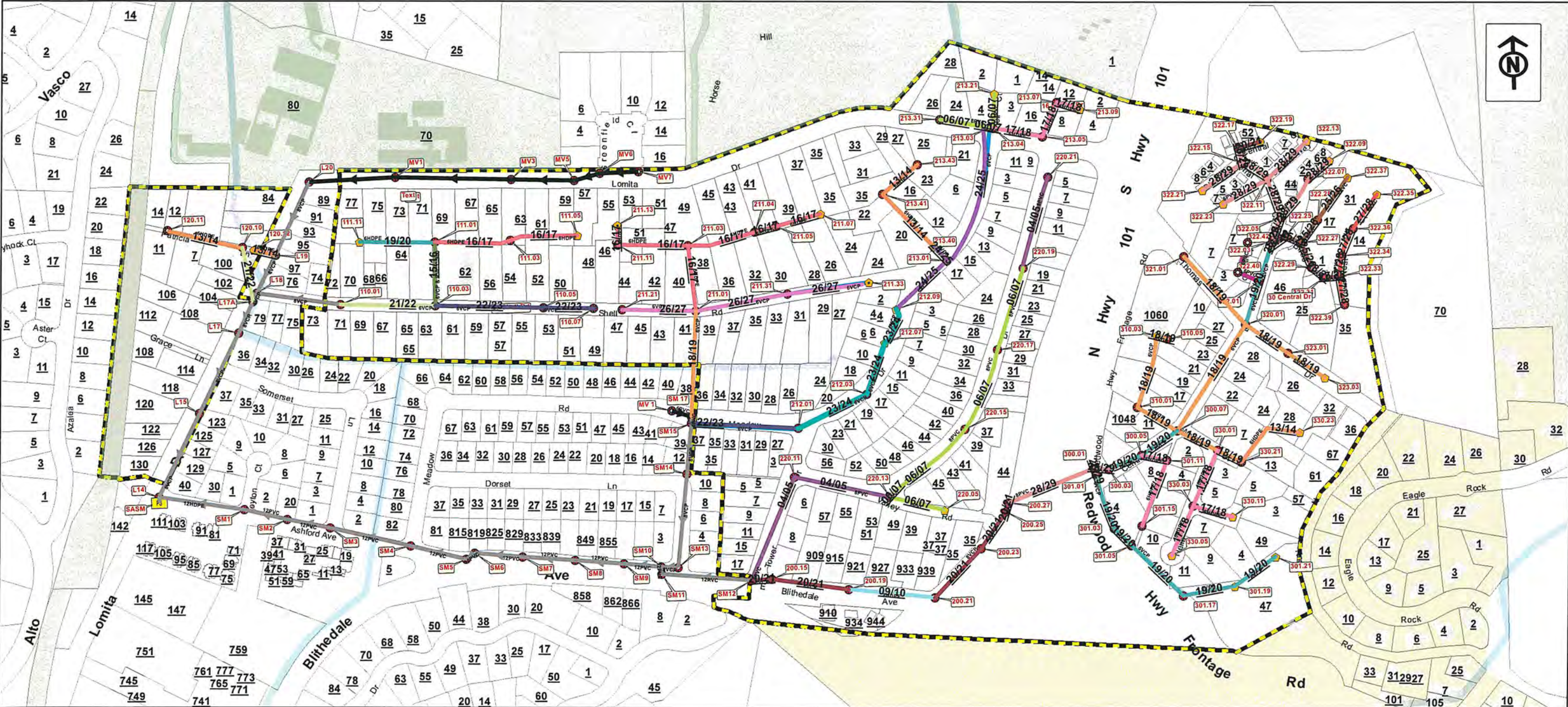
Fiscal Year	Sewer Segments	Easement/Street	Footage	Cost (estimate/ft)	Budget (including 35% contingencies)	Running Total	Action/Notes (Planned, Completed, Hold)
2017/18	213.07-213.05	Easement	120	\$365	\$43,652		Completed 2017/18
2017/18	213.09-213.07	Easement	78	\$365	\$28,377		Completed 2017/18
2017/18	213.05-213.04	Easement	161	\$365	\$58,627		Completed 2017/18
2017/18	330.05-330.03	Street	173	\$455	\$78,544		Completed 2017/18
2017/18	330.03-330.01	Street	196	\$455	\$89,234		Completed 2017/18
2017/18	330.11-330.03	Street	132	\$455	\$59,851		Completed 2017/18
2017/18	301.11-300.05	Easement	84	\$365	\$30,570		Completed 2017/18
2017/18	301.15-301.11	Easement	226	\$365	\$82,641		Completed 2017/18
FY 2017/18 Total			1,168		\$471,496	\$471,496	
2018/19	330.01-300.07	Street	145	\$298	\$43,210		Completed 2018/19
2018/19	330.21-330.01	Street	86	\$298	\$25,640		Completed 2018/19
2018/19	211.01-SM17/SM15	Easmtnt/SASM Strt	341	\$298	\$101,618		Completed 2018/19
2018/19	310.01-300.07	Easement	150	\$298	\$44,700		Completed 2018/19
2018/19	310.03-310.01	Easement	240	\$298	\$71,537		Completed 2018/19
2018/19	310.05-310.03	Easement	35	\$298	\$10,339		Completed 2018/19
2018/19	321.01-320.01	Street	296	\$298	\$88,298		Completed 2018/19
2018/19	323.01-320.01	Street	166	\$298	\$49,468		Completed 2018/19
2018/19	323.03-323.01	Street	143	\$298	\$42,614		Completed 2018/19
FY 2018/19 Total			1,602		\$475,000	\$946,496	
2019/20	111.01-111.11	Easement	80	\$350	\$28,000		Planned
2019/20	322.01-320.01	Street	260	\$350	\$91,000		Planned
2019/20	301.05-301.03	Easement	79	\$300	\$23,697		Planned
2019/20	301.03-301.01	Easement	183	\$300	\$54,970		Planned
2019/20	301.01-300.01	Easement	23	\$300	\$7,000		Planned
2019/20	301.17-301.05	Easement	234	\$300	\$70,219		Planned
2019/20	301.19-301.17	Easement	167	\$300	\$50,162		Planned
2019/20	301.21-301.19	Easement	162	\$300	\$48,687		Planned
2019/20	300.07-300.05	Street	139	\$350	\$48,770		Planned
2019/20	300.05-300.03	Street	115	\$350	\$40,204		Planned
2019/20	300.03-300.01	Street	49	\$350	\$17,144		Planned
FY 2019/20 Total			1,492		\$479,852	\$1,426,348	
2020/21	200.19-200.15	Street	250	\$455	\$113,775		Planned
2020/21	200.15-SM12	Street	67	\$455	\$30,285		Planned
2020/21	200.25-200.23	Easement	142	\$365	\$51,989		Planned
2020/21	200.27-200.25	Easement	30	\$365	\$10,911		Planned
2020/21	200.23-200.21	Easement	216	\$365	\$79,005		Planned
FY 2020/21 Total			705		\$285,966	\$1,712,314	
2021/22	110.03-110.01	Street	307	\$550	\$168,676		Planned
2021/22	110.01-L18/L17A	Street/Easmtnt	274	\$505	\$138,457		Planned
FY 2021/22 Total			581		\$307,133	\$2,019,447	

Alto Sanitary District

Capital Improvement Project (CIP) Planning To FY2028/29
Updated 12/27/2019

2022/23	110.05-110.03	Street	349	\$455	\$158,810	Planned
2022/23	110.07-110.05	Street	161	\$455	\$73,262	Planned
2022/23	212.01-SM15	Street	344	\$455	\$156,668	Planned
FY 2022/23 Total			854		\$388,739	\$2,408,186
2023/24	212.03-212.01	Street	248	\$455	\$113,004	Planned
2023/24	212.09-212.07	Street	126	\$455	\$57,188	Planned
2023/24	212.07-212.03	Street	176	\$455	\$79,863	Planned
FY 2023/24 Total			550		\$250,056	\$2,658,242
2024/25	213.03-213.01	Street	467	\$455	\$212,365	Planned
2024/25	213.01-212.09	Street	226	\$455	\$103,025	Planned
FY 2024/25 Total			693		\$315,389	\$2,973,631
2025/26	Birds Nest	Street	500	\$455	\$227,500	
2025/26	320.01-300.07	Street	406	\$455	\$184,851	Planned
FY 2025/26 Total			906		\$412,351	\$3,385,982
2026/27	211.21-211.01	Street	239	\$455	\$108,738	Planned
2026/27	211.31-211.01	Street	299	\$455	\$136,249	Planned
2026/27	211.33-211.31	Street	244	\$455	\$110,850	Planned
FY 2026/27 Total			782		\$355,838	\$3,741,820
2027/28	Courtney Ln	Street	350	\$455	\$159,250	Planned
2027/28	Birds Nest	Street	750	\$455	\$341,250	Planned
FY2027/28 Total			1,100		\$500,500	\$4,242,320
2028/29	Creekside	Street	1,070	\$455	\$486,850	
2028/29	300.01-200.27	Crossing	295	\$1,500	\$443,198	Planned
FY 2028/29 Total			1,365		\$930,048	\$5,172,368
Grand Total:			11,800			\$5,172,368

EXHIBIT : CIP MAP



907 Mission Avenue
San Rafael, California
TEL: 415-453-4480
FAX: 415-453-0343

ALTO SANITARY DISTRICT

Drawn by: PC

Checked by: PC

SCALE: 400 200 0 400 Feet

Date: 12/27/2019

LEGEND

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 04/05 | 13/14 | 17/18 | 20/21 | 23/24 | 26/27 |
| 06/07 | 15/16 | 18/19 | 21/22 | 24/25 | 27/28 |
| 09/10 | 16/17 | 19/20 | 22/23 | 25/26 | 28/29 |
- MILL VALLEY PIPES
→ SASM PIPES

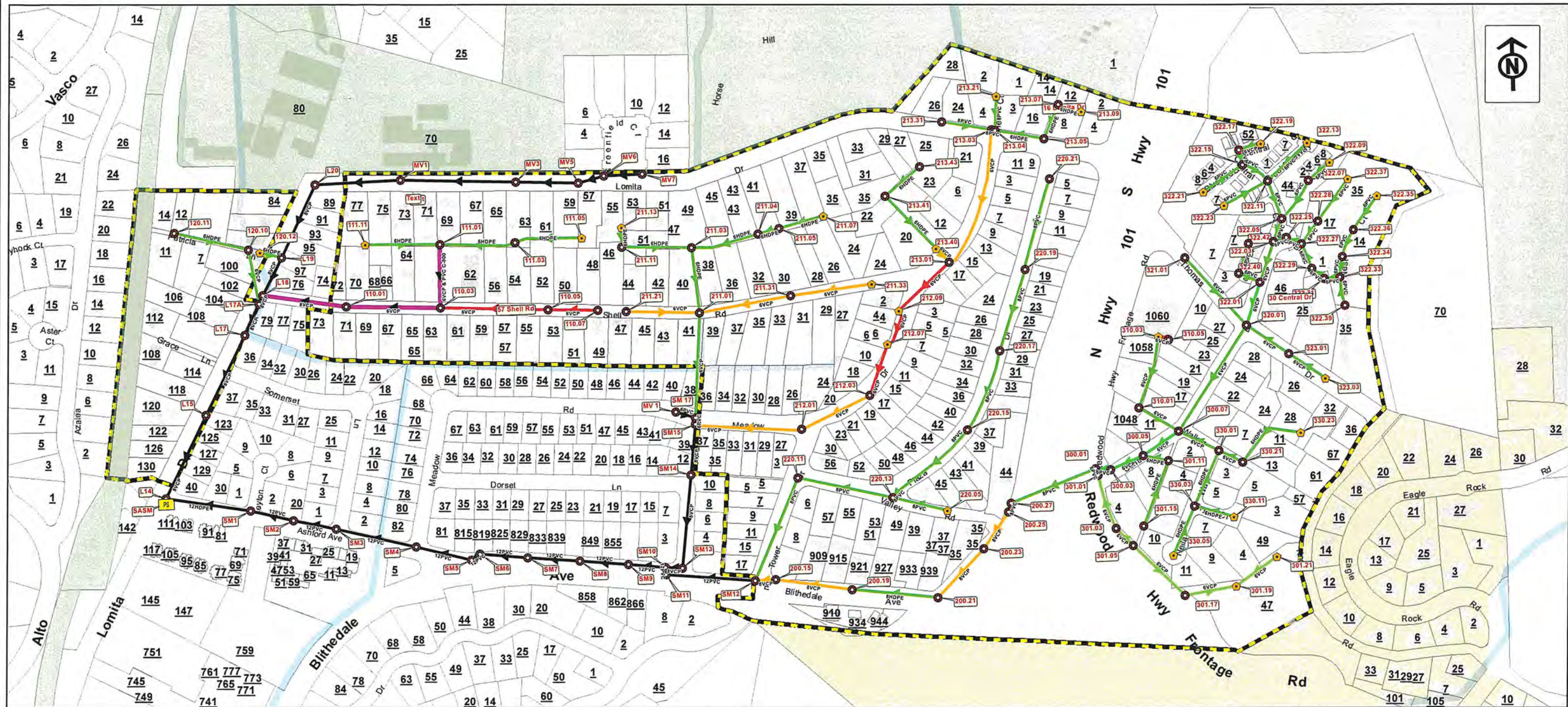
**Attachments for Alto Sanitary District
FY2018-19 Sewage Spill Reduction Action Plan**

ATTACHMENT B

Alto Sanitary District Sewer Cleaning Map

Alto Sanitary District Pipe Cleaning Schedule

EXHIBIT : CLEANING MAP



907 Mission Avenue
San Rafael, California
TEL: 415-453-4480
FAX: 415-453-0343

ALTO SANITARY DISTRICT

Drawn by: PC

Checked by: PC

SCALE: 400 200 0 400 Feet

Date: 12/28/2019

- LEGEND**
- A - Three-years
 - B - Two-years
 - C - One-year
 - D - Six-months
 - E - Five Months
 - Other Districts

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
111.03-111.01	245	6	HDPE	Oct '17	A	3 yrs	A2	07/24/15	01/23/17 06/28/17	2017 CIP			08/01/20			08/01/23	
111.05-111.03	218	6	HDPE	Oct '17	A	3 yrs	A2	07/24/15		2017 CIP			08/01/20			08/01/23	
111.11-111.01	225	6	HDPE	Oct '17	A	3 yrs	A2	07/24/15	06/28/17	2017 CIP		2020 CIP	08/01/20			08/01/23	
120.10-L17A	179	6	VCP		A	3 yrs	A2					02/01/20			02/01/23		
120.11-120.10	201	6	HDPE		A	3 yrs	A2		02/13/17			02/01/20			02/01/23		
120.12-L19	73	6	HDPE		A	3 yrs	A2		02/13/17			02/01/20			02/01/23		
200.21-200.19	281	8	HDPE	2010	A	3 yrs	B3			02/12/18			02/01/21			02/01/24	
200.27-200.25	30	8	PVC		A	3 yrs	B3			02/12/18			02/01/21			02/01/24	
211.01-SM17	341	6	HDPE	May '19	A	3yrs	A3	07/23/15	02/06/17	02/08/18 02/23/18	2/25/2019 2019 CIP			05/01/22			05/01/25
211.03-211.01	213	6	HDPE	Oct '17	A	3 yrs	A3	07/23/15 03/08/16	02/06/17	2017 CIP			08/01/20			08/01/23	
211.04-211.03	221	6	HDPE	Oct '17	A	3 yrs	A2/B2	07/23/15		2017 CIP			08/01/20			08/01/23	
211.05-211.04	70	6	HDPE	Oct '17	A	3 yrs	B2	07/10/15		2017 CIP			08/01/20			08/01/23	
211.07-211.05	149	6	HDPE	Oct '17	A	3 yrs	B2	07/23/15		2017 CIP			08/01/20			08/01/23	
211.11-211.03	228	6	HDPE	Oct '17	A	3 yrs	A2	07/23/15		2017 CIP			08/01/20			08/01/23	
211.13-211.11	46	6	HDPE	Oct '17	A	3 yrs	A2	07/23/15		2017 CIP			08/01/20			08/01/23	
213.04-213.03	34	8	PVC	2011	A	3 yrs	B2		02/13/17	02/15/18			02/01/21			02/01/24	
213.05-213.04	161	6	HDPE	Jul '18	A	3 yrs	B2	02/09/16	02/13/17	02/13/18	2018 CIP 03/04/19			03/01/22			03/01/25
213.07-213.05	120	6	HDPE	Jul '18	A	3 yrs	B2		02/13/17 04/24/17	03/09/18	2018 CIP 03/04/19			03/01/22			03/01/25
213.09-213.07	78	6	HDPE	Jul '18	A	3 yrs	B2	07/23/15	02/13/17	03/09/18	2018 CIP			03/01/22			03/01/25

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
213.21-213.04	112	8	PVC		A	3 yrs	B2			02/15/18			02/01/21			02/01/24	
213.31-213.03	139	8	PVC		A	3 yrs	B2			02/15/18			02/01/21			02/01/24	
213.41-213.01	237	6	HDPE		A	3 yrs	B2			02/15/18			02/01/21			02/01/24	
213.43-213.41	147	6	HDPE		A	3 yrs	B2			02/15/18			02/01/21			02/01/24	
220.03-220.13	34	8	PVC		A	3 yrs	B3			02/20/18			02/01/21			02/01/24	
220.05-220.13	183	8	PVC		A	3 yrs	B3			02/20/18			02/01/21			02/01/24	
220.11-SM12	360	8	PVC		A	3 yrs	A3/B3			02/20/18			02/01/21			02/01/24	
220.13-220.11	315	8	PVC		A	3 yrs	B3			02/20/18			02/01/21			02/01/24	
220.15-220.13	297	8	PVC	2007	A	3 yrs	B3			02/20/18			02/01/21			02/01/24	
220.17-220.15	279	8	PVC	2007	A	3 yrs	B3					02/01/20			02/01/23		
220.19-220.17	275	8	PVC	2008	A	3 yrs	B2/B3			02/15/18			02/01/21			02/01/24	
220.21-220.19	309	8	PVC	2008	A	3 yrs	B2			02/15/18			02/01/21			02/01/24	
300.01-200.27	295	8	PVC		A	3 yrs	B3			02/12/18			02/01/21			02/01/24	
301.03-301.01	183	6	HDPE	May '20	A	3 yrs	B3	05/01/15 03/28/16	02/08/17	03/01/18	03/07/19	2020 CIP			05/01/23		
301.05-301.03	79	6	HDPE	May '20	A	3 yrs	B3	05/01/15 03/29/16	02/08/17	03/01/18	03/07/19	2020 CIP			05/01/23		
301.17-301.05	234	6	HDPE	May '20	A	3 yrs	B3	03/13/16	02/13/17 04/24/17		03/07/19	2020 CIP			05/01/23		
301.19-301.17	167	6	HDPE	May '20	A	3 yrs	B3	03/13/16	02/13/17	03/16/18	03/08/19	2020 CIP			05/01/23		
301.21-301.19	162	6	HDPE	May '20	A	3 yrs	B3			03/16/18	03/08/19	2020 CIP			05/01/23		
301.11-300.05	84	6	HDPE	Jul '18	A	3 yrs	B3	05/01/15 03/29/16	04/24/17		2018 CIP			07/01/21			07/01/24
301.15-301.11	226	6	HDPE	Jul '18	A	3 yrs	B3	03/13/16 03/29/16	02/18/17	03/09/18	2018 CIP			07/01/21			07/01/24

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
310.01-300.07	150	6	VCP	May '19	A	3yrs	B3	04/28/15 03/02/16	02/10/17		2019 CIP	08/13/19			08/01/22		
310.03-310.01	240	6	VCP	May '19	A	3yrs	B3	02/09/16 03/02/16	02/10/17	03/09/18	2019 CIP			05/01/22			05/01/25
310.09-310.05 RH to RH Added to List	26	6	HDPE	May '19	A	3yrs	B3				2019 CIP			05/01/22			05/01/25
310.05-310.03	13	6	HDPE	May '19	A	3yrs	B3	02/09/16 03/02/16	02/10/17	03/09/18	2019 CIP			05/01/22			05/01/25
320.01-300.07	406	6	HDPE	May '19	A	3yrs	B3	04/23/16	02/10/17	02/26/18	2019 CIP			05/01/22			05/01/25
321.01-320.01	296	6	HDPE	May '19	A	3yrs	B2/B3	04/23/15 03/16/16	02/08/17	03/01/18	2019 CIP			05/01/22			05/01/25
322.01-320.01	146	6	HDPE	May '20	A	3 yrs	B2/B3	04/23/16	02/13/17	02/26/18		2020 CIP			05/01/23		
322.03-322.01	139	6	HDPE	May '20	A	3 yrs	B2					2020 CIP			05/01/23		
322.05-322.03	79	6	HDPE	May '20	A	3 yrs	B2		02/08/17			2020 CIP			05/01/23		
322.07-322.05	152	6	PVC		A	3 yrs	B2		02/08/17			02/01/20			02/01/23		
322.09-322.07	90	6	PVC		A	3 yrs	B2		02/08/17			02/01/20			02/01/23		
322.11-322.05	131	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		
322.13-322.11	177	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		
322.15-322.11	98	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		
322.17-322.15	49	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		
322.19-322.17	74	6	VCP		A	3 yrs	B2		02/08/17			02/01/20			02/01/23		
322.21-322.15	154	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		
322.23-322.11	162	6	PVC		A	3 yrs	B2		02/06/17			02/01/20			02/01/23		

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
322.25-322.01	44	6	PVC		A	3 yrs	B2		02/08/17			02/01/20			02/01/23		
322.27-322.25	53	6	PVC		A	3 yrs	B2					02/01/20			02/01/23		
322.28-322.27	91	6	PVC		A	3 yrs	B2		02/13/17			02/01/20			02/01/23		
322.29-322.27	87	6	PVC		A	3 yrs	B2		02/13/17	03/26/18			03/01/21			03/01/24	
322.31-322.29	52	6	PVC		A	3 yrs	B2/B3		02/13/17	03/26/18			03/01/21			03/01/24	
322.33-322.31	51	6	PVC		A	3 yrs	B2/B3		02/13/17	03/26/18			03/01/21			03/01/24	
322.34-322.33	67	6	PVC		A	3 yrs	B2/B3		02/08/17			02/01/20			02/01/23		
322.35-322.36	135	6	PVC		A	3 yrs	B2		02/08/17	03/26/18			03/01/21			03/01/24	
322.36-322.34	95	6	PVC		A	3 yrs	B2		02/08/17			02/01/20			02/01/23		
322.37-322.28	167	6	PVC		A	3 yrs	B2		02/13/17			02/01/20			02/01/23		
322.39-322.33	93	6	PVC		A	3 yrs	B2/B3		02/13/17	03/26/18			03/01/21			03/01/24	
322.40-322.01 Verify Location	75	6	PVC		A	3 yrs				02/20/18			02/01/21			03/01/24	
322.42-322.40 Verify Location	101	6	PVC		A	3 yrs				02/20/18			02/01/21			02/01/24	
323.01-320.01	166	6	HDPE	May '19	A	3yrs	B3	04/23/15 03/16/16	02/08/17	02/13/18	2019 CIP			05/01/22			05/01/25
323.03-323.01	143	6	HDPE	May '19	A	3yrs	B3	04/23/15 03/16/16	02/08/17	02/13/18	3/4/2019 2019 CIP			05/01/22			05/01/25
330.01-300.07	145	6	HDPE	May '19	A	3yrs	B3	04/28/15 03/10/16	02/09/17	02/13/18	3/4/2019 2019 CIP			05/01/22			05/01/25
330.21-330.01	86	6	HDPE	May '19	A	3yrs	B3	04/24/15 03/10/16	02/09/17	02/13/18	3/4/2019 2019 CIP			05/01/22			05/01/25

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
330.03-330.01	196	6	HDPE	Jul '18	A	3 yrs	B3	04/28/15 01/07/16 03/08/16	02/09/17	02/13/18	2018 CIP			07/01/21			07/01/24
330.05-330.03	173	6	HDPE	Jul '18	A	3 yrs	B3	04/23/15 03/08/16	02/09/17		2018 CIP			07/01/21			07/01/24
330.11-330.01	132	6	HDPE	Jul '18	A	3 yrs	B3	04/24/15 03/08/16	02/09/17	02/13/18	2018 CIP			07/01/21			07/01/24
330.23-330.21	243	6	HDPE	2013	A	3 yrs	B3					02/01/20			02/01/23		
300.03-300.01	49	6	PVC	1995	A	3 yrs	B3	04/23/16	02/10/17			02/01/20			02/01/23		
300.05-300.03	115	6	HDPE	May '20	A	3 yrs	B3	04/23/16	02/10/17	03/01/18		2020 CIP			05/01/23		
300.07-300.05	139	6	HDPE	May '20	A	3 yrs	B3	04/23/16	02/10/17	03/01/18		2020 CIP			05/01/23		

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
213.40-213.01	62	6	VCP		C	1 yr	B2					02/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
200.15-SM12	67	8	VCP		C	1 yr	A3/B3	03/13/15	04/24/17	03/01/18		02/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
200.19-200.15	250	8	VCP		C	1 yr	B3	03/28/16	02/07/17	02/12/18 02/13/18 02/15/18	03/01/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
200.23-200.21	216	8	VCP		C	1 yr	B3	03/13/16 03/28/16	02/07/17	02/12/18	03/01/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
200.25-200.23	142	8	VCP		C	1 yr	B3	03/13/16 03/28/16	02/07/17	02/12/18	03/01/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
211.21-211.01	239	6	VCP		C	1 yr	A3	02/06/16 02/29/16	02/06/17	02/08/18	02/25/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
211.31-211.01	299	6	VCP		C	1 yr	A3/B3	02/06/16 03/04/16	02/06/17	02/08/18	02/25/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
211.33-211.31	244	6	VCP		C	1 yr	B2/B3	02/06/16 03/04/16	02/06/17		02/25/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
212.01-SM15	344	6	VCP		C	1 yr	A3/B3	08/04/15 03/07/16	04/25/17	02/08/18 02/23/18	02/25/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
212.03-212.01	248	6	VCP		C	1 yr	B3	02/09/16 03/08/16	02/03/17	02/08/18	03/01/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
213.03-213.01	467	6	VCP		C	1 yr	B2	02/09/16 03/07/16	02/03/17		03/01/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25
301.01-300.01	23	6	VCP		C	1 yr	B3	05/01/15	04/24/17	03/01/18	03/07/19	03/01/20	03/01/21	03/01/22	03/01/23	03/01/24	03/01/25

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
110.05-110.03	349	6	VCP		D	6 mo	A2/A3	07/10/15 3/1/2016	09/26/16 01/23/17 05/22/17	11/01/17 03/08/18	10/23/18	08/13/19 02/01/20	08/01/20 02/01/21	08/01/21 02/01/22	08/01/22 02/01/23	08/01/23 02/01/24	08/01/24 02/01/25
110.07-110.05	161	6	VCP		D	6 mo	A3	07/10/15 3/1/2016	09/26/16 01/23/17 05/22/17	11/01/17 03/08/18	10/23/18	08/14/19 02/01/20	08/01/20 02/01/21	08/01/21 02/01/22	08/01/22 02/01/23	08/01/23 02/01/24	08/01/24 02/01/25
212.07-212.03	176	6	VCP		D	6 mo	B3	02/09/15 03/02/16	02/06/17			08/14/19 02/01/20	08/01/20 02/01/21	08/01/21 02/01/22	08/01/22 02/01/23	08/01/23 02/01/24	08/01/24 02/01/25
212.09-212.07	126	6	VCP		D	6 mo	B3	02/09/15	02/06/17	03/09/18		08/14/19 02/01/20	08/01/20 02/01/21	08/01/21 02/01/22	08/01/22 02/01/23	08/01/23 02/01/24	08/01/24 02/01/25
213.01-212.05- 212.09	226	6	VCP		D	6 mo	B2/B3	02/09/15 03/02/16	02/02/17	03/05/18	10/23/18	08/13/19 02/01/20	08/01/20 02/01/21	08/01/21 02/01/22	08/01/22 02/01/23	08/01/23 02/01/24	08/01/24 02/01/25

Alto Sanitary District Cleaning Schedule

ID *	Length	Dia.	Material	CIP	Cleaning Code	Cleaning Freq	Page	Pre: 06/30/16	Jul '16 to Jun '17	Jul '17 to Jun '18	Jul '18 to Jun '19	Jul '19 to Jun '20	Jul '20 to Jun '21	Jul '21 to Jun '22	Jul '22 to Jun '23	Jul '23 to Jun '24	Jul '24 to Jun '25
110.01-L18 Shell Shared Line	274	8	VCP		E	5 mo	A3	07/10/15 (?m) 03/01/16 (8m)	09/26/16 (6.5m) 01/23/17 (10.5m)	11/01/17 (5.5m) 03/08/18 (4m)	10/23/18 (7m)	08/14/19 (10m) 02/01/20	07/01/20 12/01/20 05/01/21	10/01/21 03/01/22	08/01/22 01/01/23 06/01/23	11/01/23 04/01/24	09/01/24 02/01/25
110.03-110.01 Shell Rd West End	307	6	VCP		E	5 mo	A2/A3	07/10/15 (?m) 03/01/16 (8m)	09/26/16 (6.5m) 01/23/17 (10.5m)	11/01/17 (5.5m) 03/08/18 (4m)	10/23/18 (7m)	08/14/19 (10m) 02/01/20	07/01/20 12/01/20 05/01/21	10/01/21 03/01/22	08/01/22 01/01/23 06/01/23	11/01/23 04/01/24	09/01/24 02/01/25
111.01-110.03 Islamic Center Pkg Lot	205	6	VCP & PVC C- 900	2016 - VCP in street remains	E	5 mo REVISE?	A3	07/10/15 (?m) 03/01/16 (8m)	01/23/17 (10.5m) 05/22/17 (4m)	11/01/17 (5.5m) 03/08/18 (4m)	10/23/18 (7m)	08/14/19 (10m) 02/01/20	07/01/20 12/01/20 05/01/21	10/01/21 03/01/22	08/01/22 01/01/23 06/01/23	11/01/23 04/01/24	09/01/24 02/01/25

**Attachments for Alto Sanitary District
FY2018-19 Sewage Spill Reduction Action Plan**

ATTACHMENT C

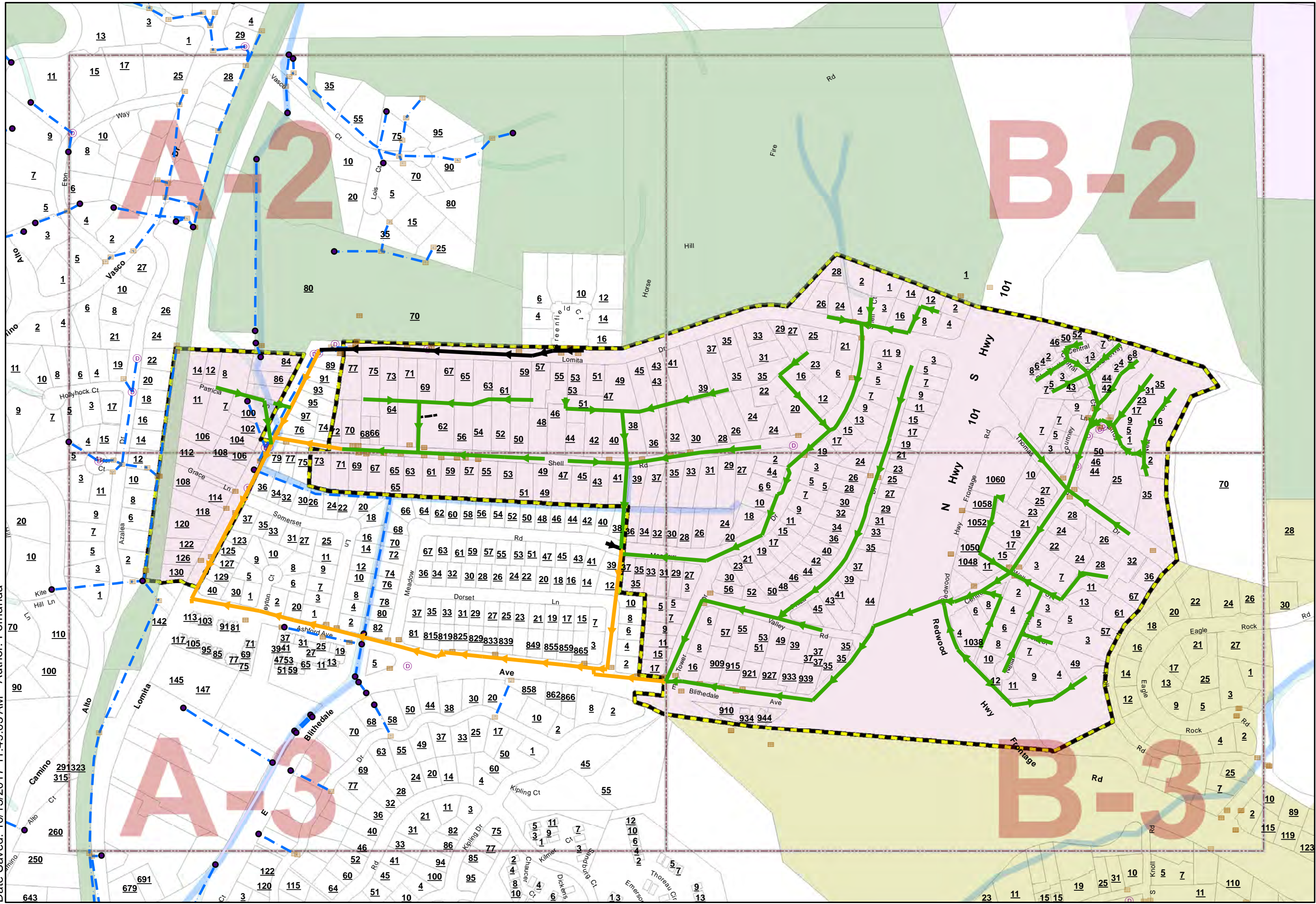
Sanitary Sewer System KEY Map

Sanitary Sewer System page A-2

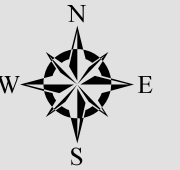
Sanitary Sewer System page A-3

Sanitary Sewer System page B-2

Sanitary Sewer System page B-3



KeyMap



1 INCH = 365 FEET

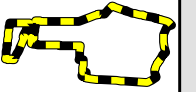
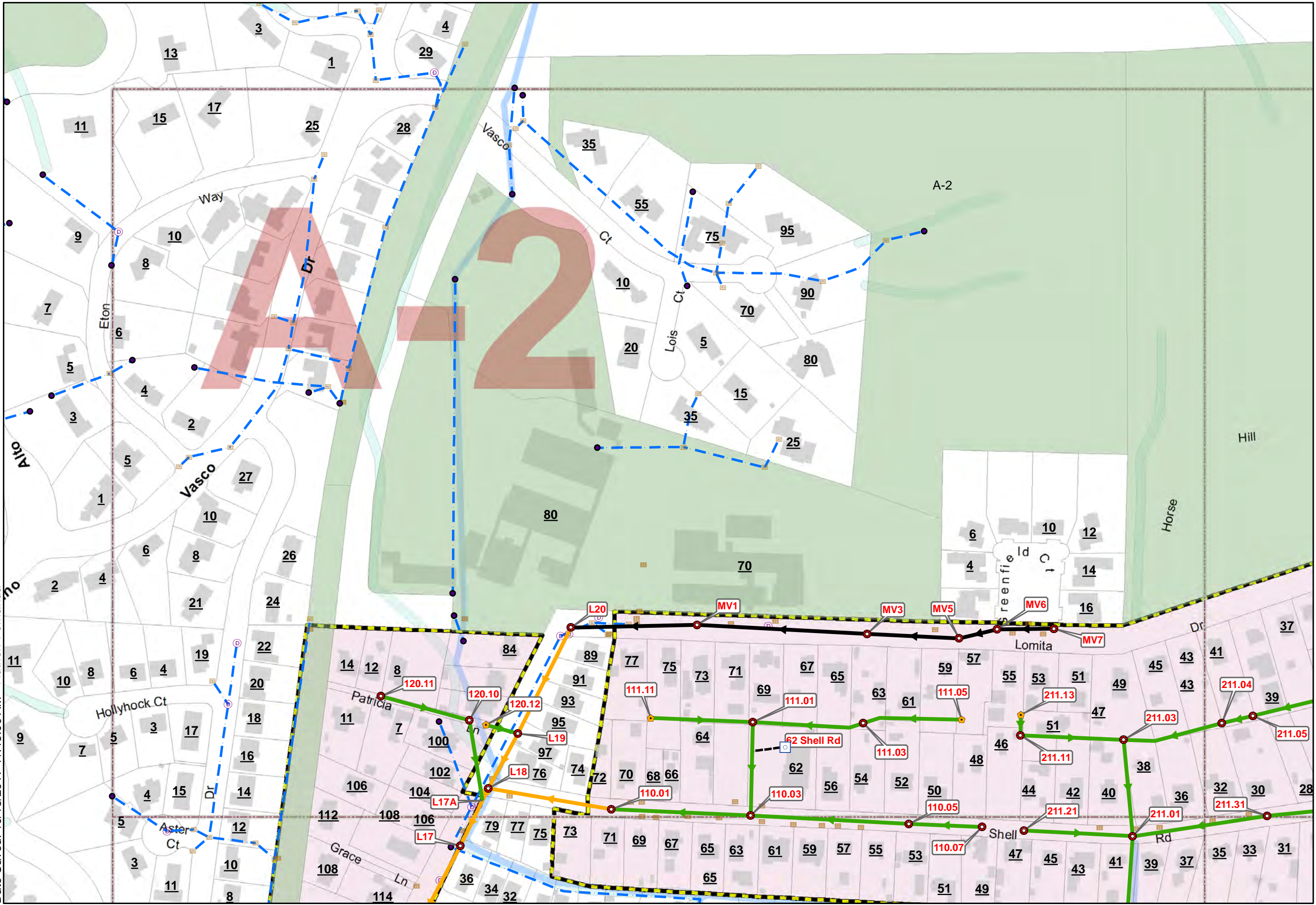
SANITARY SEWER SYSTEM

ALTO SANITARY DISTRICT

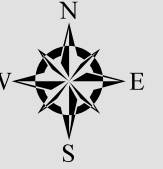
MARIN COUNTY, CALIFORNIA



Printed
Date: 10/13/2017



A-2



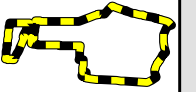
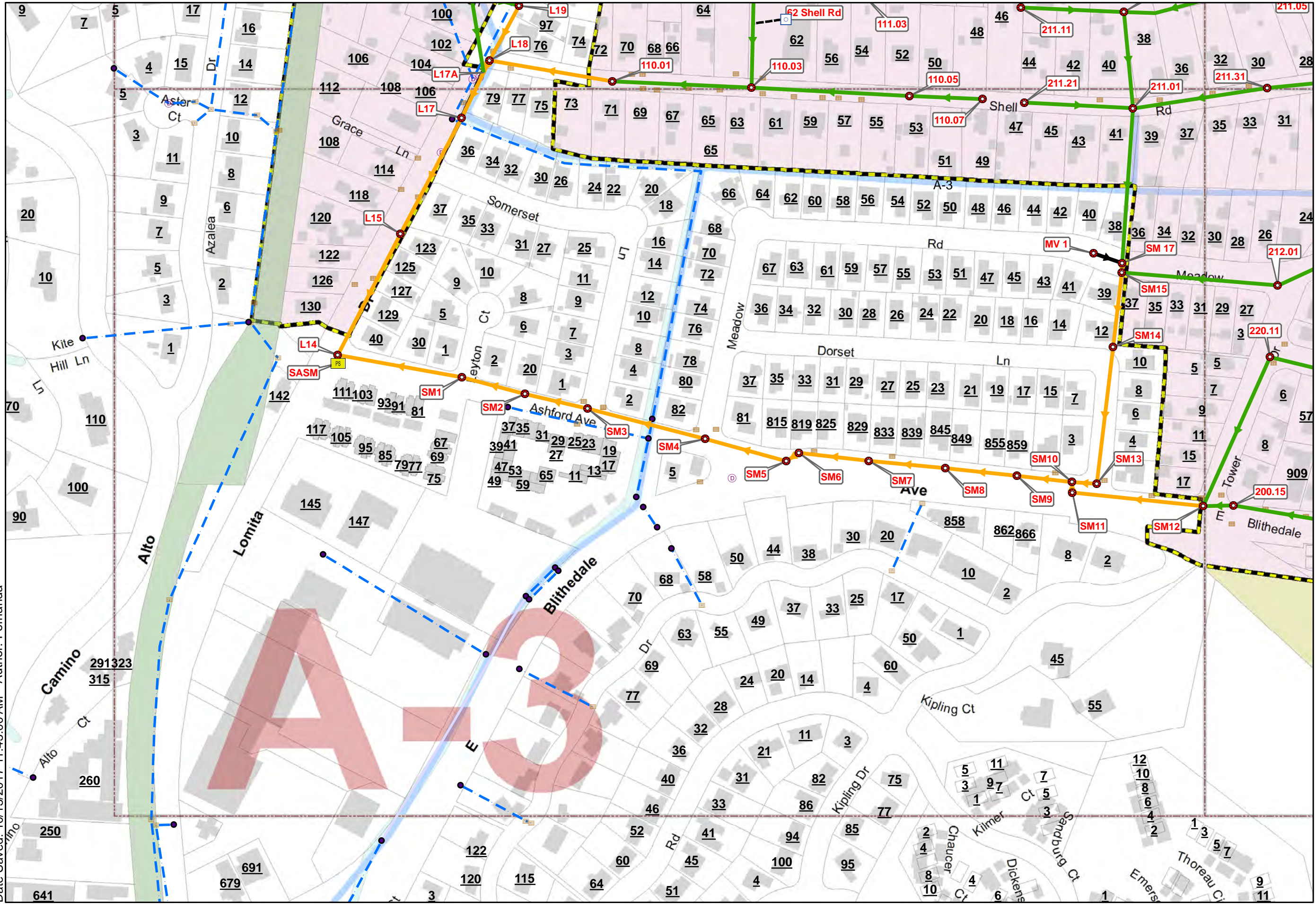
1 INCH = 200 FEET

SANITARY SEWER SYSTEM

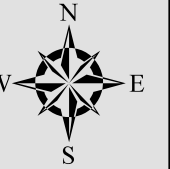
ALTO SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA



Printed
Date: 10/13/2017



A-3



1 INCH = 200 FEET

SANITARY SEWER SYSTEM

ALTO SANITARY DISTRICT

MARIN COUNTY, CALIFORNIA



Printed
Date: 10/13/2017



SANITARY SEWER SYSTEM

ALTO SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA



Printed
Date: 10/13/2017

**Attachments for Alto Sanitary District
FY2018-19 Sewage Spill Reduction Action Plan**

ATTACHMENT D

Alto Sanitary District Ordinance 2016-01

Alto Sanitary District FY2018-19 Budget

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46

ORDINANCE NO. 2016-01

**ORDINANCE OF THE ALTO SANITARY DISTRICT BOARD OF
DIRECTORS ESTABLISHING THE RATE OF THE ANNUAL
SEWER SERVICE CHARGE LEVIED ON IMPROVED
PROPERTIES IN THE DISTRICT**

SECTION I. FINDINGS:

WHEREAS, the Alto Sanitary District, operating as a public agency, provides services required to fulfill its mandate to operate and maintain an adequate wastewater collection system, to prevent sewer overflows and to pay for treatment and disposal of the wastes generated by that system;

WHEREAS, the District must pay for the administration, operation and maintenance of the District's wastewater collection system;

WHEREAS, the cost of wastewater treatment and disposal by the Sewerage Agency of Southern Marin (SASM) has dramatically increased and SASM has also added \$30 million dollars of planned capital improvements, which have resulted in increased costs to Alto;

WHEREAS, the District must fund the planned repair and replacement of the District's collection system;

and

WHEREAS, the District has a responsibility to provide sufficient reserves to fund unforeseen emergencies;

THEREFORE BE IT ORDAINED that the Board of Directors of the Alto Sanitary District ordain as follows:

SECTION II. Ordinance:

Based on the financial needs of the Sanitary District, the annual Sewer Service Charge levied per Equivalent Dwelling Unit (EDU) on improved properties in the District is hereby established to be;

\$1,100 for the fiscal year beginning July 1, 2016;

\$1,250 for the fiscal year beginning July 1, 2017;

\$1,500 for the fiscal year beginning July 1, 2018;

And will remain at \$1,500 until such time that the Board of Directors ordains otherwise.

1 **SECTION III. Compliance with Proposition 218**

2 The Board of Directors hereby determine that the charge set forth above is
3 reasonable and reflects the cost of providing services based on the following findings:
4

- 5 1. Revenues derived from the increase shall not exceed the funds required to
6 provide the property related service;
7
8 2. Revenues derived from the increase shall not be used for any purpose other than
9 for which the increase is imposed;
10
11 3. The amount of the increase imposed upon any parcel or person as an incident of
12 property ownership shall not exceed the proportional cost of the service
13 attributable to the parcel;
14
15 4. No charge shall be imposed for a service unless the service is actually used by, or
16 available to the owner of the property in question; and
17
18 5. No charge may be imposed for general governmental services including but not
19 limited to police, fire, ambulance or library services where the service is
20 available to the public at large in substantially the same manner as it is to the
21 property owners.

22 **SECTION IV. Effective Date**

23 This ordinance shall be and is hereby declared to be in full force and effect as of
24 thirty (30) days from and after the date of its passage and shall be published once before
25 the expiration of fifteen (15) days after its passage, with the names of the supervisors
26 voting for and against the same in the MARIN INDEPENDENT JOURNAL, a
27 newspaper of general circulation published in the County of Marin.

28 **PASSED AND ADOPTED** at a regular meeting of the Board of Directors of the Alto
29 Sanitary District held on this **22nd** day of **June, 2016**, by the following vote:
30


31
32 AYES: 5

33
34 NOES: 0

35
36 ABSENT: 0

37
38 ATTEST:

39
40 ATTEST:

41 
42 President, of the Board
43 Stanley Bransgrove

44 
45 Secretary/Treasurer
46

Alto Sanitary District

Budget for Fiscal Year 2018-19 - APPROVED by the Board of Directors on 06/27/18

Revenue			
Item	FY17-18 Proj	FY18-19 Budget	%
Operating Revenue			
Program Revenues (Sewer Service Charges) FY18/19 = 1,500/EDU	621,478	745,773	120%
Franchise Fees (MVRS)	14,022	16,000	114%
Marin Housing Authority Sewer Fee	70,000	84,000	120%
Permits & Fees	49,805	25,000	50%
Operating Revenue:	755,305	870,773	115%
Non-Operating Revenue			
Property Taxes	49,883	49,574	99%
Excess ERAF	21,559	20,000	93%
Aid from Govt Agencies (HOPTR)	126	126	100%
Interest	2,660	2,000	75%
Grant	5,000	0	0%
Non-Operating Revenue:	79,228	71,700	90%
Total Revenue:	834,533	942,473	113%
Expenses			
Sewage Treatment			
Sewage Treatment SASM	265,398	290,000	109%
Sewage Treatment:	265,398	290,000	109%
Sewer System Maintenance			
Cleaning	20,560	22,000	107%
Televising Program	0	0	
Repairs	4,868	5,000	103%
Lateral Rehab Prog (Inspections)	0	1,000	
Underground Service Alert	10,075	11,000	109%
Unscheduled Services	7,203	8,000	111%
Sewer System Maintenance:	42,706	47,000	110%
Professional Services			
Marin County Admin Fees	547	1,200	219%
LAFCO Dues	285	400	140%
Marin County Encroachment Fee	490	490	100%
CSDA Dues	3,094	2,200	71%
PO Box Fee	108	108	100%
SWRCB	2,088	2,100	101%
Underground Service Alerts Fees	310	350	113%
Audit	5,500	6,000	109%
Bookkeeping	3,575	2,000	56%
Legal	440	2,500	568%
MarinMap Membership Share	3,875	3,875	100%
Marketing & Public Outreach	5,022	2,500	50%
Engineering (GIS,EPA,SSMP)	10,079	11,000	109%
Engineering (Lateral Oversight)	23,688	25,000	106%

Alto Sanitary District

Budget for Fiscal Year 2018-19 - APPROVED by the Board of Directors on 06/27/18

Engineering (Other)	1,781	2,000	112%
Professional Services:	60,882	61,723	101%
Administration Costs			
Insurance: CSRMA	844	900	107%
Election Notices and Fees	40	100	250%
Office Expenses (Postage, Printing, Supplies)	349	500	143%
Utilities (Cell Phone, Office Phone, Website)	1,505	1,660	110%
Miscellaneous (Parking, Mileage)	0	0	
Administration Costs:	2,738	3,160	115%
Payroll Expenses			
Payroll for Manager	36,000	38,000	106%
Stipends for Board (includes YTD Special Mtgs)	6,600	7,000	106%
Management of Special Projects	6,110	15,000	245%
Employer Taxes	3,500	4,252	121%
Payroll Service	1,025	1,100	107%
Payroll Bank Account Fees	12	48	
Payroll Expenses:	53,247	65,400	123%
Total Operating Expenses:	424,971	467,283	110%
Net Operations (Revenue - Expenses):	409,562	475,190	116%
CIP Program/Rehabilitation			
FY15_16 CIP (Islamic Cntr Parking Lot) - Complete	0	0	
FY16_17 CIP (Easements) - Complete	327,051	0	
FY17_18 CIP (Lomita, Niela, Central, Crystal) - In Progress	297,115	32,000	
FY18_19 CIP - TBD	0	443,000	
Total CIP Expense:	624,166	475,000	
Est. Beginning of Fiscal Year Account Balances:			
Reserve Fund Cash Balance:	217,300	218,756	
Operations Cash Balance:	486,700	272,096	
Total Beginning Cash Balance:	704,000	490,852	
Est. End of Fiscal Year Account Balances:			
2018 Reserve Fund Cash Balance (Incl etimated interest):	218,756	NA	
2019 Reserve Fund Cash Balance (Incl etimated interest):	NA	318,756	
Operations Cash Balance (Beg Ops Bal + Net Ops - CIP):	272,096	272,286	
Total Ending Cash Balance:	490,852	591,042	