


December 4, 2008

TO: Nick Agbobu
Engineering, Budget, and Office Operations

FROM Robert Swartz 
Field Operations

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT Y0TV0506F**

This memo is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 17,914 feet or approximately 1.4 percent of the sewer system within Unincorporated County maintained by the District's North Yard

The attached report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- Quick Structural Rating Map (Enclosure 3)
- Sample Inspection Report (Enclosure 4)
- CCTV Sewer Inspection Project Schedule (Enclosure 5)

The Condition Assessment Report will provide details regarding the maintenance and structural condition of our sewer mainlines. This information can be included in our agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, in some instances, have been incorporated into our routine cleaning schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of the ongoing Accumulative Capital Outlay Project.

PK.kk
1588

Attach

bc: RS, FV, File (Y0TV0506F), SPINDLE

**CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

PROJECT NAME:	Y0TV0506F	PROJECT MGR:	Fernando Villaluna
PROJECT DATE:	06/27/06 – 08/04/06	CONTACT NO:	(626) 300-3380
SUP. DISTRICT(s):	3	MAP PAGE(S):	1044 & 1067
Report By:	Phyo Kyaw	Report Date:	11/17/08

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 17,914 feet or approximately 1.4 percent of the Unincorporated County of Los Angeles’ sewer system maintained by the District’s North Yard.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project Y0TV0506F included sewer lines located in the Unincorporated County of Los Angeles area and the Cities of Agoura Hills, Calabasas, Hidden Hills, Malibu, Rancho Palos Verdes and Westlake Village. Enclosed for your reference is an overview map of the project area (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects, while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

Grade	Description	Estimate time to Failure
1:	EXCELLENT: Minor Defects.	Unlikely in the foreseeable future
2:	GOOD: Defects that have not begun to deteriorate.	20 years or more
3:	FAIR: Moderate defects that will continue to deteriorate.	10 to 20 years
4:	POOR: Sever defects that will become grade 5 defects within the foreseeable future.	5 to 10 years
5:	IMMEDIATE ATTENTION: Defects requiring immediate attention.	Has failed or will likely fail within the next 5 years

MAINTENANCE REPORT

Our inspection revealed that approximately 90.8 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 9.2 percent of the inspected pipe segments within the Unincorporated County of Los Angeles area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	3,530	19.7	18
2: Good	11,874	66.4	54
3: Fair	847	4.7	3
4: Poor	1,402	7.8	6
5: Immediate Attention	261	1.4	1
TOTAL	17,914	100.0	82

STRUCTURAL REPORT

Our inspection revealed that 100 percent of the inspected pipe segments within the Unincorporated County of Los Angeles were free of severe structural defects as indicated in the Quick Structural Rating Table shown below. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	14,483	80.8	70
2: Good	1,483	8.3	5
3: Fair	1,948	10.9	7
4: Poor	0	0.00	0
5: Immediate Attention	0	0.00	0
TOTAL	17,914	100.0	82

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the Unincorporated County of Los Angeles maintained by the North Yard. For your reference, the CCTV Sewer Inspection project schedule is listed in Enclosure 5.

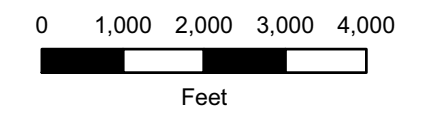
ENCLOSURE 1:

Project Overview Map

PROJECT OVERVIEW MAP

CCTV PROJECT Y0TV0506F

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
Verdes, Westlake Village &
County Unincorporated



Legend

SMD Sanitary Sewers

- Other
- 4
- 8
- 10
- 12
- 15
- 18

SMD Manholes

- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

SMD Pump Stations

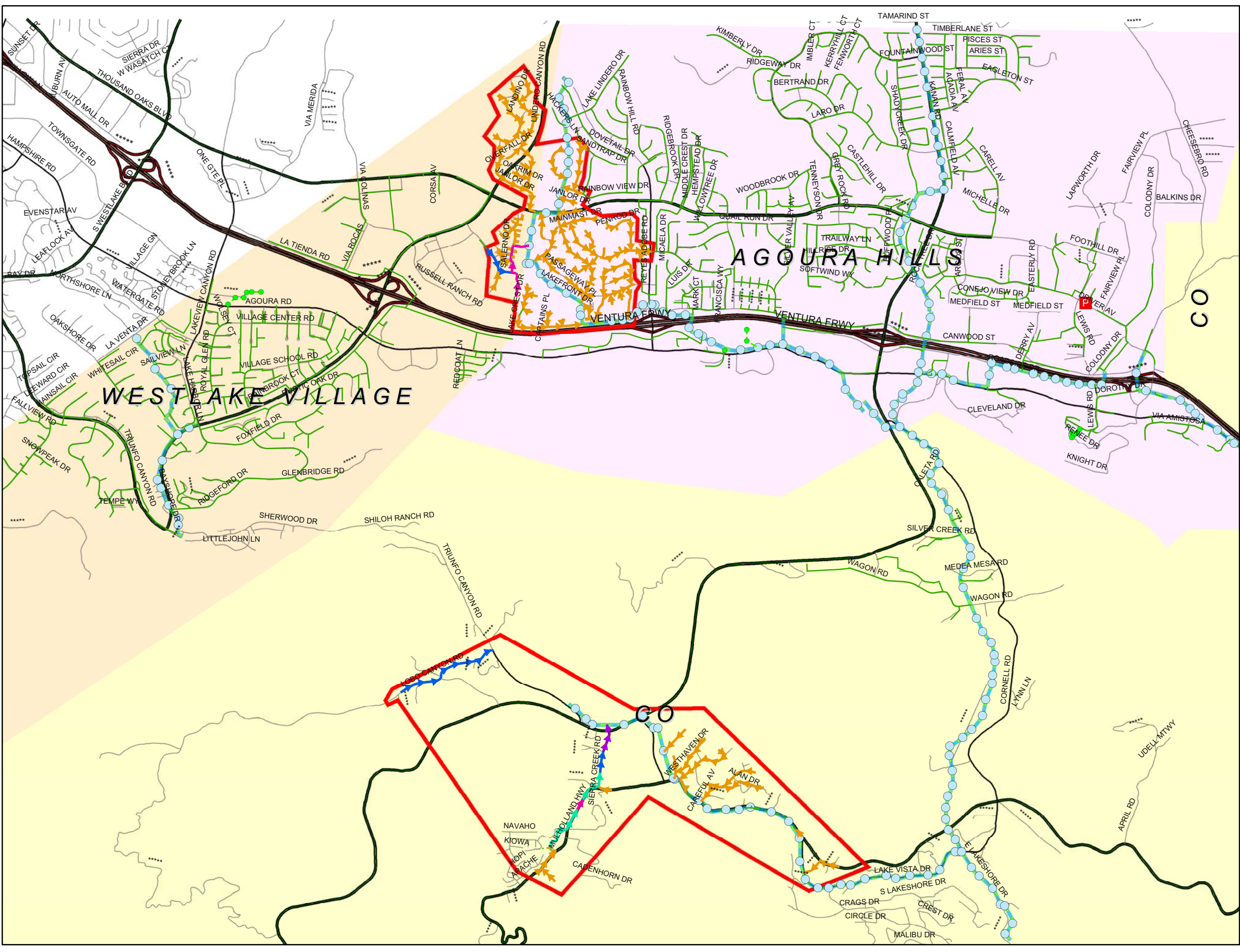
SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0506F

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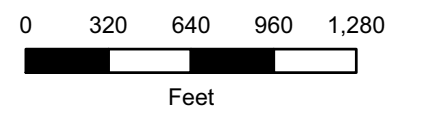
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Y0TV0506F_Overview.mdx



PROJECT OVERVIEW MAP

**CCTV PROJECT
Y0TV0506F**

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
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MH Type

- SMD Pump Satations
- SMD Treatment Plants

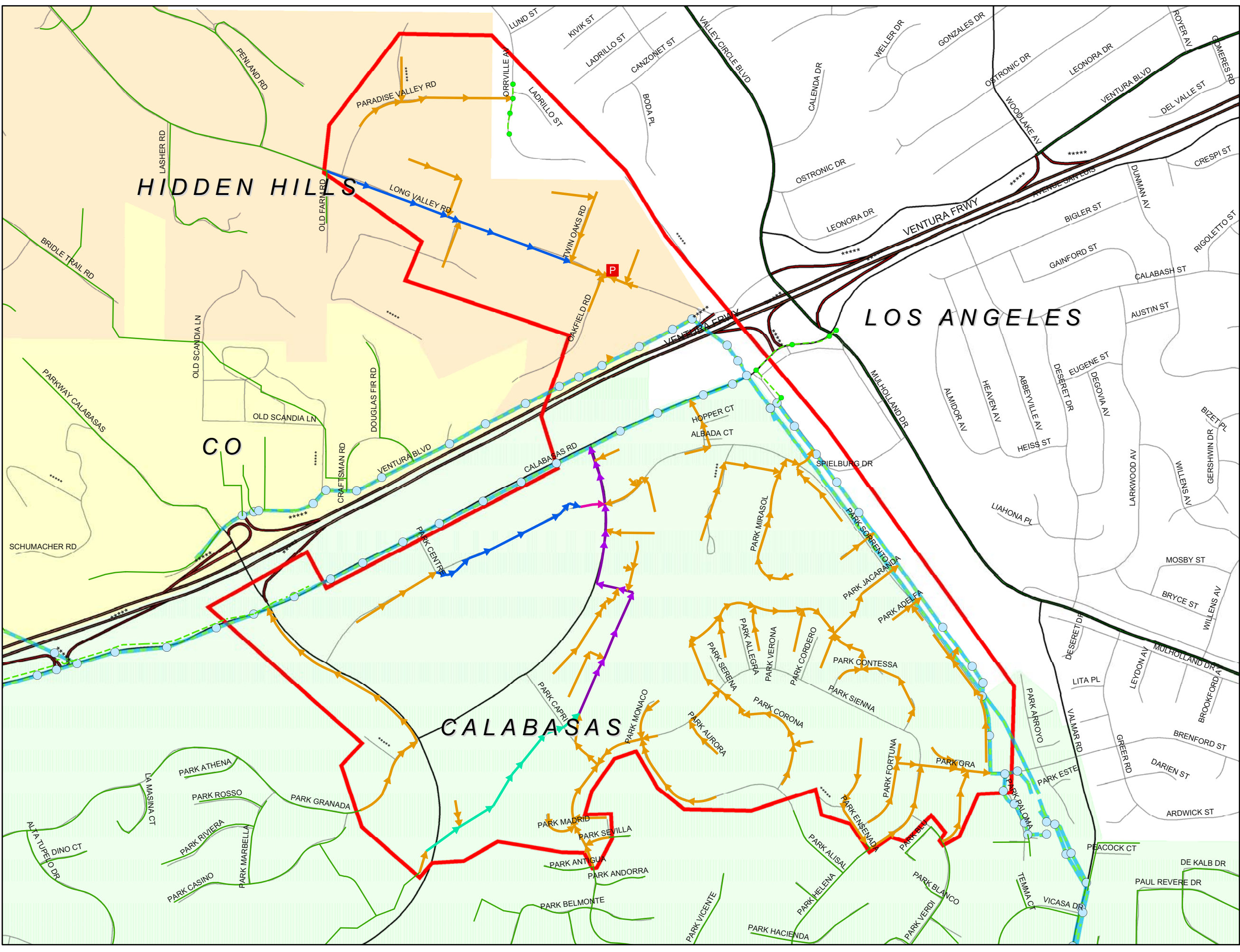
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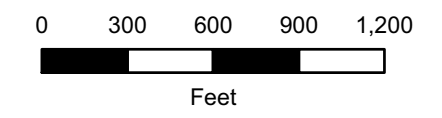
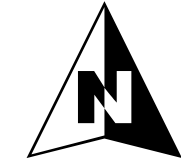
Y0TV0506F_Overview.mxd



PROJECT OVERVIEW MAP

**CCTV PROJECT
Y0TV0506F**

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
Verdes, Westlake Village &
County Unincorporated



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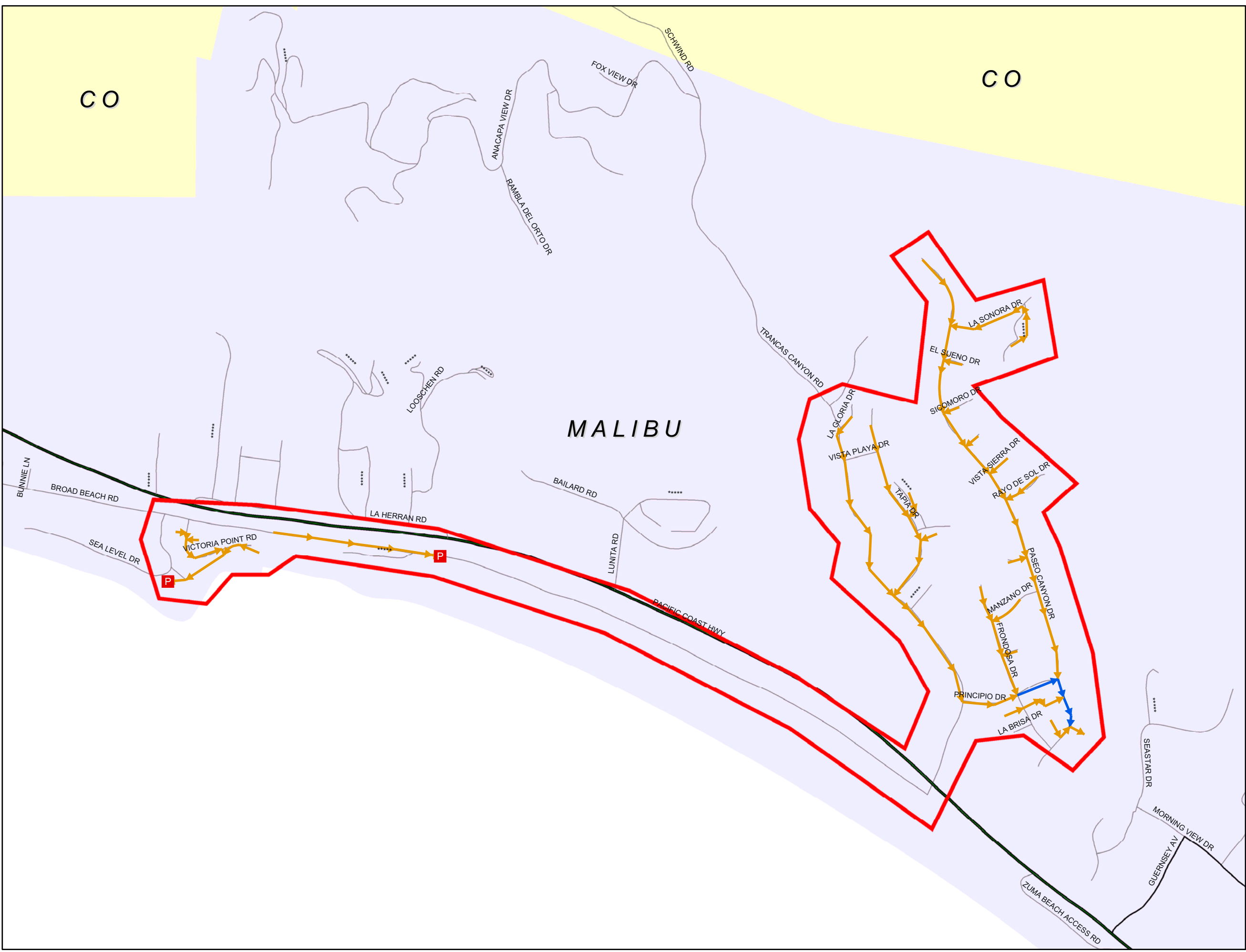
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- P** SMD Pump Stations
- WTP** SMD Treatment Plants

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- Y0TV0506F

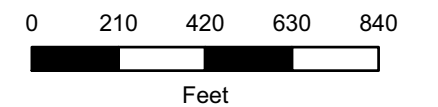


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PROJECT OVERVIEW MAP

CCTV PROJECT Y0TV0506F

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
Verdes, Westlake Village &
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SMD Manholes

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MH Type

- Standard
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- Trap
- Shallow
- Drop

- SMD Pump Satations

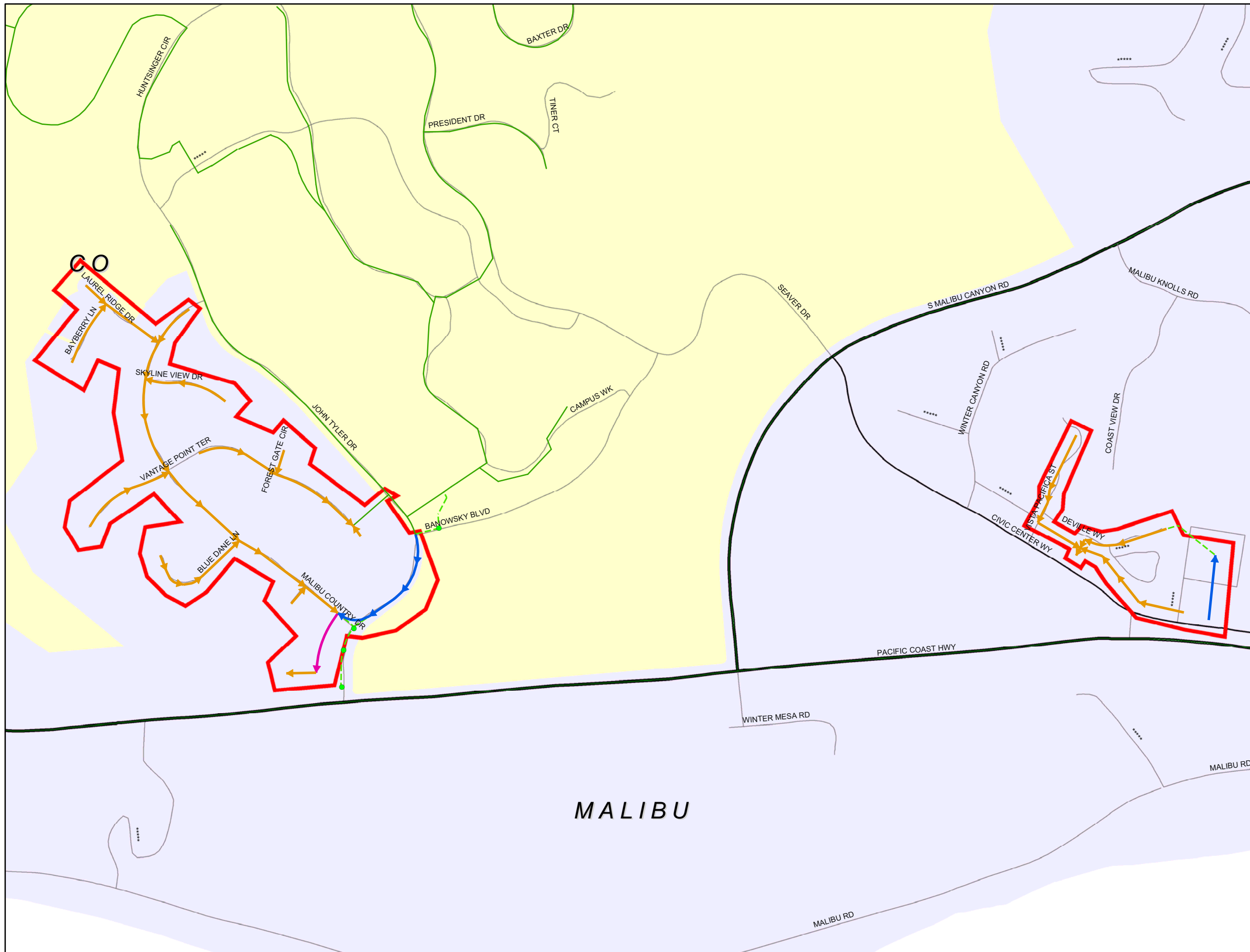
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
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- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps

- Y0TV0506F



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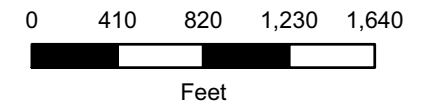
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PROJECT OVERVIEW MAP

CCTV PROJECT Y0TV0506F

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
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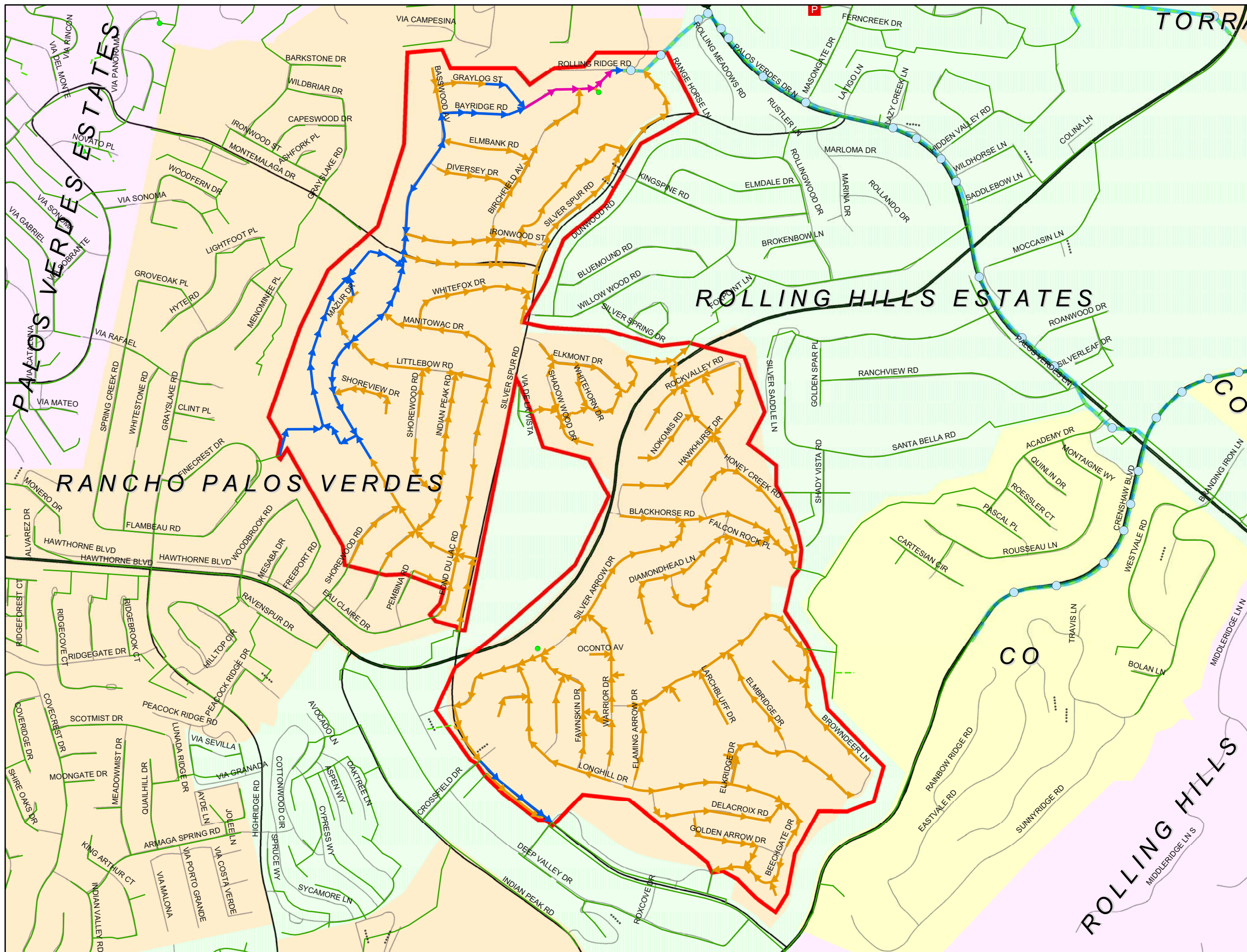
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- SMD Treatment Plants

Maintained by Others:

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- Y0TV0506F

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ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 UNINCORPORATED LOS ANGELES COUNTY SUPERVISORIAL DISTRICT 3 (Y0TV0506F)
 as of 08/04/06

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5121	1067-0048	1067-0049	WESTHAVEN DR	Deposits: End MH 1067-0049	Remove deposit and clean MH (Completed 11/12/08)
2	4123	1067-0081	1067-0080	ALAN DR	Roots; Debris	Hyrojet (Completed 11/12/08)
3	4121	1067-0022	1067-0021	MULHOLLAND HWY	Pipe alignment change	No action needed.
4	4100	1044-0001	1067-0066	ALAN DR	Pipe alignment change	No action needed.
5	4100	1044-0004	1044-0003	LOBO CYN RD	Pipe alignment change	No action needed.
6	4100	1067-0066	1067-0065	LOBO CYN RD	Pipe alignment change	No action needed.

The following line segment received a Quick Maintenance Rating of above 4000 due to the observation of Root Ball or Deposit inside the lateral connection. CSMD does not maintain lateral lines: it is the responsibility of the parcel owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Therefore, the line was not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

Item No.	QMR	Start MH	End MH	Street	Observation
1	4121	1067-0060	1067-0055	TRIUNFO DR	Roots in lateral

S-1043

S-1066

S-10

S-1044

S-1067

S-10

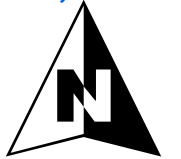
CO

ENCLOSURE 2

CCTV PROJECT Y0TV0506F

Supervisorial District 3
COUNTY UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



0 580 1,160 1,740 2,320

Legend Feet

SMD Sanitary Sewers

- QMR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

SMD Manholes

- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

- SMD Pump Satations
- SMD Treatment Plants

Maintained by Others:

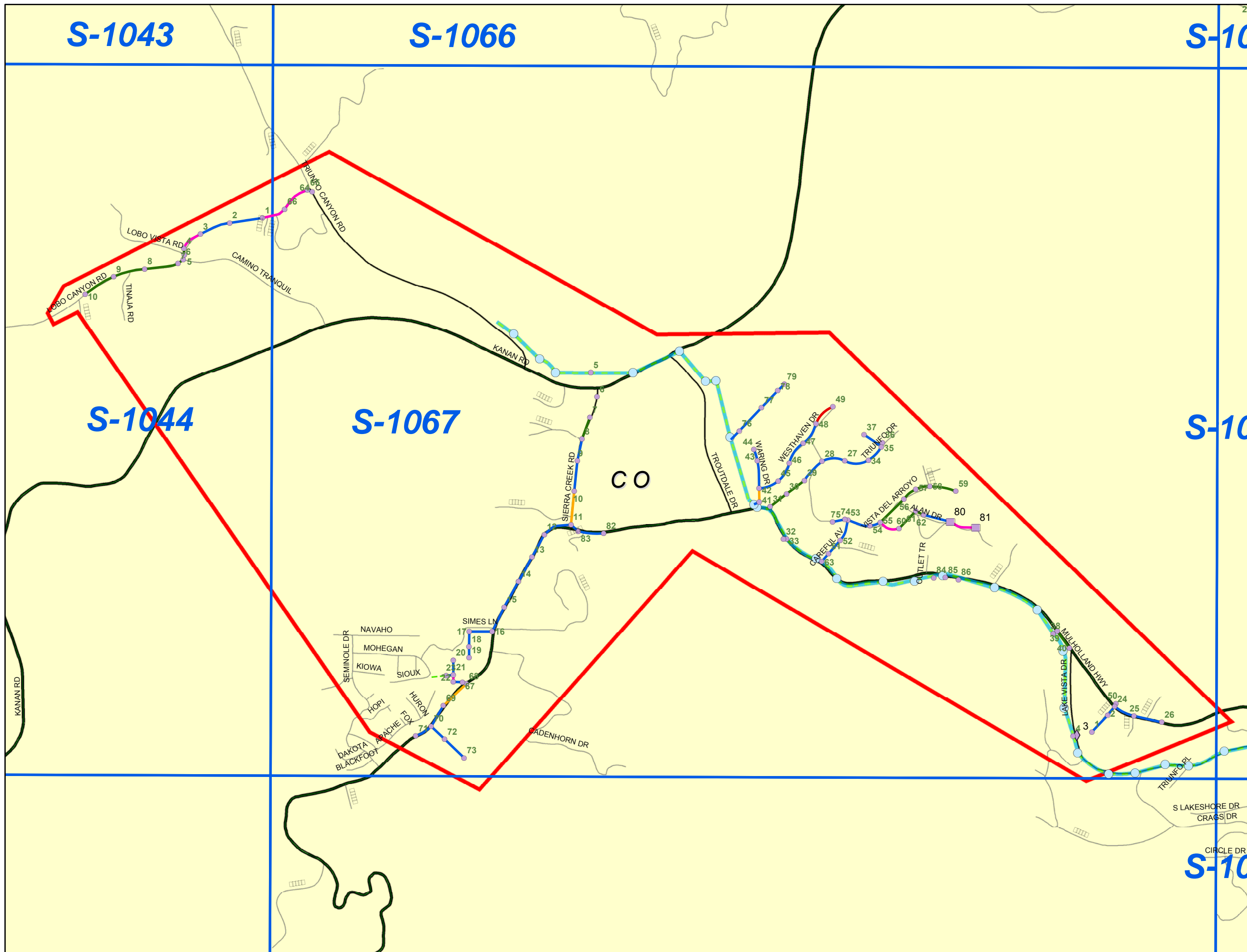
- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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ENCLOSURE 3:

- Quick Structural Rating Map

S-1043

S-1066

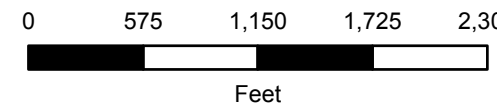
S-10

ENCLOSURE 3

CCTV PROJECT Y0TV0506F

Supervisorial District 3
COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers QSR

- 1: EXCELLENT
- 2: GOOD
- 3: FAIR

SMD Manholes

- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

- SMD Pump Satations
- SMD Treatment Plants

Maintained by Others:

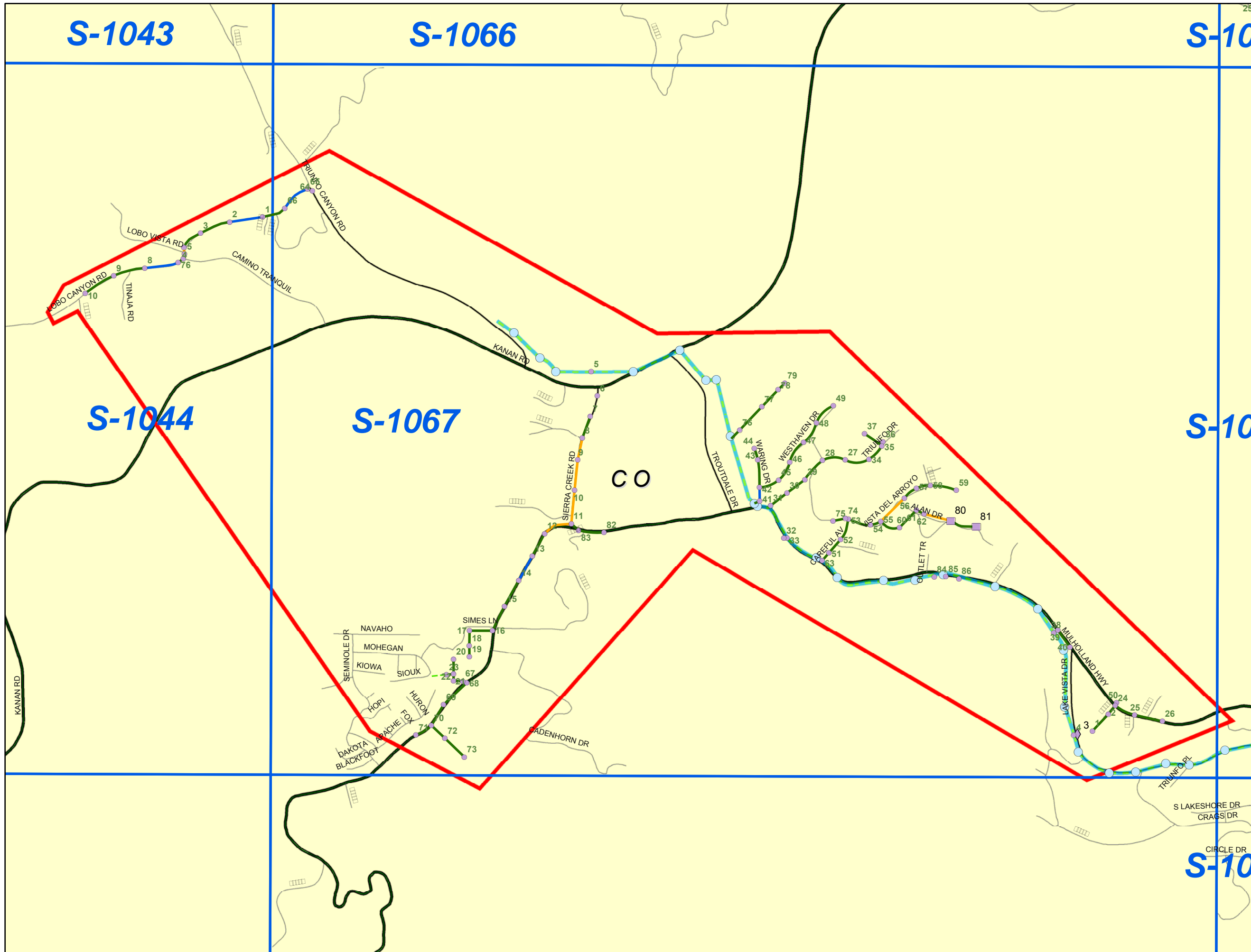
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ENCLOSURE 4:

Sample Inspection Report



National Plant Services, INC.
 1461 Harbor Avenue
 Long Beach, CA 90813-2741
 Tel: (800) 445-3614, Fax: (562) 495-1528

Inspection report

Date: 20060712	P.O.#: Y0TV0506F	Weather: 1 Dry	Surveyed By: NPS D Beck	section number: 451	PSR: 762979
Total Pipe Length: 271.8	Survey Customer: LACDPW	System Owner: ZLAS	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1067

Street: ALAN DR.	Flow Control: N Not Controlled	Start MH: 1067-0081
City: ZLAS	Year Renewed:	End MH: 1067-0080
Location Code: C Light Highway	Tape/Media #: 002	pipe length: 271.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length: 260
Drain. Area: 1067	Lining Method:
	Category:

Remark: :

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole	00:01:02		
	42.33	Water Level. Sag in pipe. 10 % of cross sectional area	00:03:30		M 2
	86.43	Alignment Left. 20 °	00:05:12		M 2
	104.61	Roots Ball Joint, from 07 to 09 o'clock, 15 %, within 8 inch: YES	00:05:59	487a	
	190.94	Water Level. Sag in pipe. 10 % of cross sectional area	00:09:25	488a	M 2
	271.80	Manhole	00:12:38		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2300	0	6	6	0	2	2

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

Unincorporated North Yard**CCTV PROJECT SCHEDULE**

FISCAL YEAR	YARD	SUP DIST	PROJECT NAME	LENGTH (FT)*
2005-2006	N	5	Y0TV0506F	17,914
2007-2008	N	5	Y0TV0708D	198
2008-2009	N	5	4_18	193
2008-2009	N	5	5_12	39,096
2009-2010	N	5	3_1	13,409
2009-2010	N	5	5_33	36,481
2010-2011	N	5	5_11	7,495
2011-2012	N	5	3_3	104,324
2012-2013	N	5	5_3	105,698
2012-2013	N	5	5_4	88,468
2012-2013	N	5	5_6	77,266
2013-2014	N	5	5_8	778
2014-2015	N	5	3_2	59,232
2014-2015	N	5	5_1	251,504
2014-2015	N	5	5_2	263,133
2014-2015	N	5	5_21	5,333
2014-2015	N	5	5_5	53,230
2015-2016	N	5	5_10	192,614
2015-2016	N	5	5_18	2,899
			TOTAL (FT)	1,319,265
			TOTAL (MILES)	250

* Approximate length as of July 2005, actual project length may vary.