

April 6, 2009

TO: Nicholas Agbobu
Engineering, Budget, and Office Operations

FROM: Robert Swartz
Field Operations



**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT Y0TV0506D**

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 49,010 feet or approximately 1.4 percent of the sewer system within the Unincorporated County area maintained by the District's East 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 Report Priority List and Quick Infrastructure Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)
- CCTV Sewer Inspection Project Schedule (Enclosure 5)

The Condition Assessment Report provides 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. 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
1660

Attach.

bc: RS, FV, File (Y0TV0506D), SPINDLE

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

PROJECT NAME:	Y0TV0506D	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	4/17/06-8/14/06	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	5	MAP PAGE(S):	2297, 2298, 2299
Report By:	Phyo Kyaw	Report Date:	03/24/09

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 49,010 feet or approximately 1.4 percent of the Unincorporated Los Angeles County sewer system maintained by the District's East Yard.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0506D included sewer lines located in the Unincorporated County of Los Angeles area and the Cities of Glendora, Bradbury, Duarte, La Canada Flintridge, and San Dimas. 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 requires 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 89.9 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 10.1 percent of the inspected pipe segments within the Unincorporated Los Angeles County 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	15,962	32.6	72
2: Good	21,639	44.1	93
3: Fair	6,452	13.2	26
4: Poor	4,050	8.3	16
5: Immediate Attention	907	1.8	3
TOTAL	49,010	100.0	210

STRUCTURAL REPORT

Our inspection revealed that approximately 97.7 percent of the inspected pipe segments within the Unincorporated Los Angeles County were free of severe structural defects. However, the remaining 2.3 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 5 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection reports for these five segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	34,859	71.1	154
2: Good	6,973	14.2	28
3: Fair	6,050	12.4	23
4: Poor	509	1.0	2
5: Immediate Attention	619	1.3	3
TOTAL	49,010	100.0	210

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 East Yard. For your reference, the CCTV Sewer Inspection project schedule is listed in Enclosure 5.

ENCLOSURE 1:

Project Overview Map

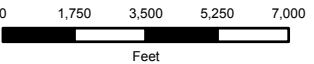
ENCLOSURE 1

CCTV PROJECT

YOTV0506D

Supervisorial District 5
Bradbury, Duarte, Glendora,
La Canada Flintridge,
San Dimas, Unincorporated County

PROJECT OVERVIEW



Legend

all other values

SMD Manholes

Other

MH Type

Standard

DROP

Shallow

Trap

Siphon

SMD Pump Stations

SMD Treatment Plants

Maintained by Others:

Trunk Sewerlines

Non SMD Sanitary Sewers

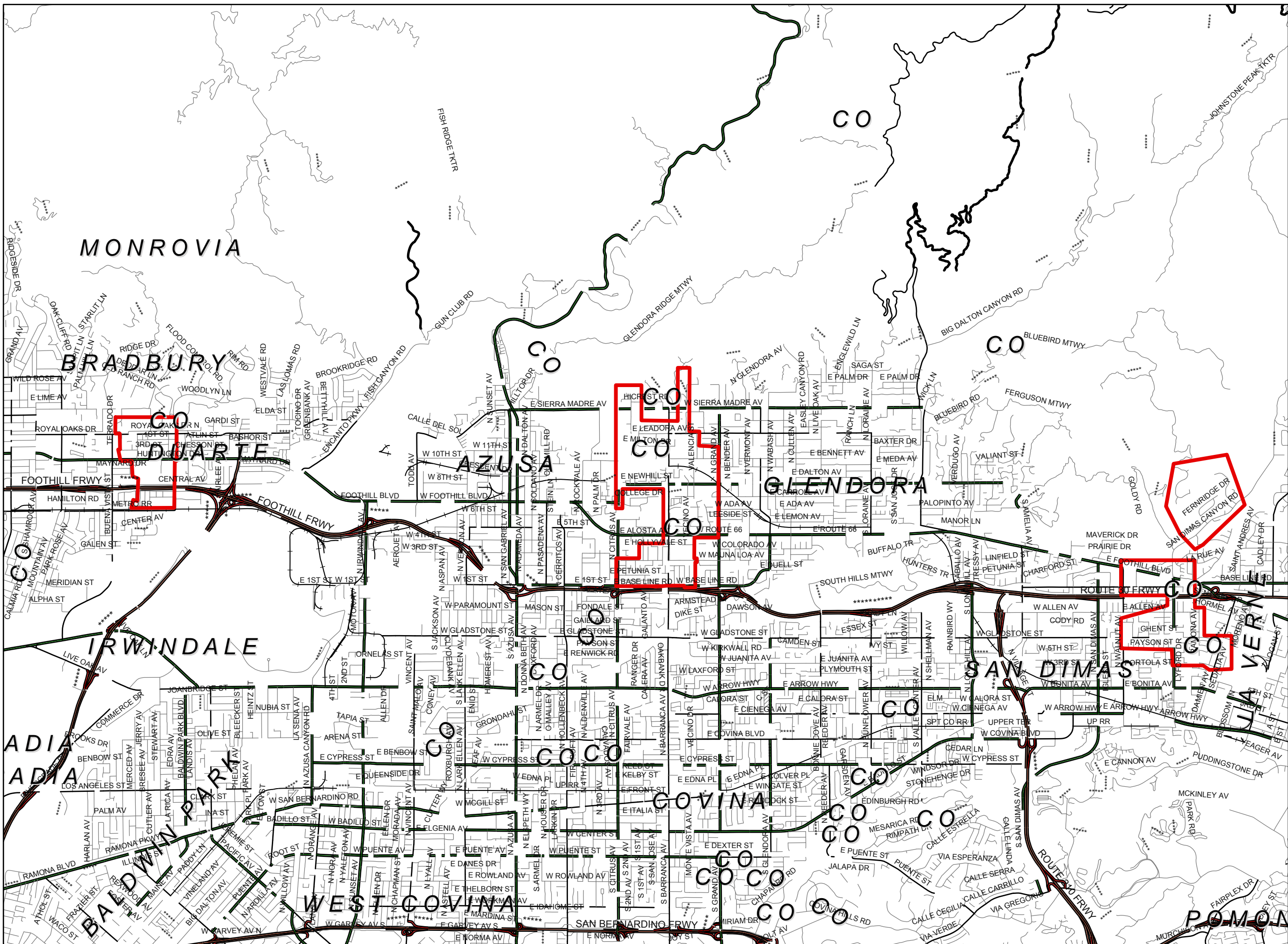
Trunk Mh

DPW SMD.nosmd.mh

Parcel Boundary

SMD Operations Maps

YOTV0506D



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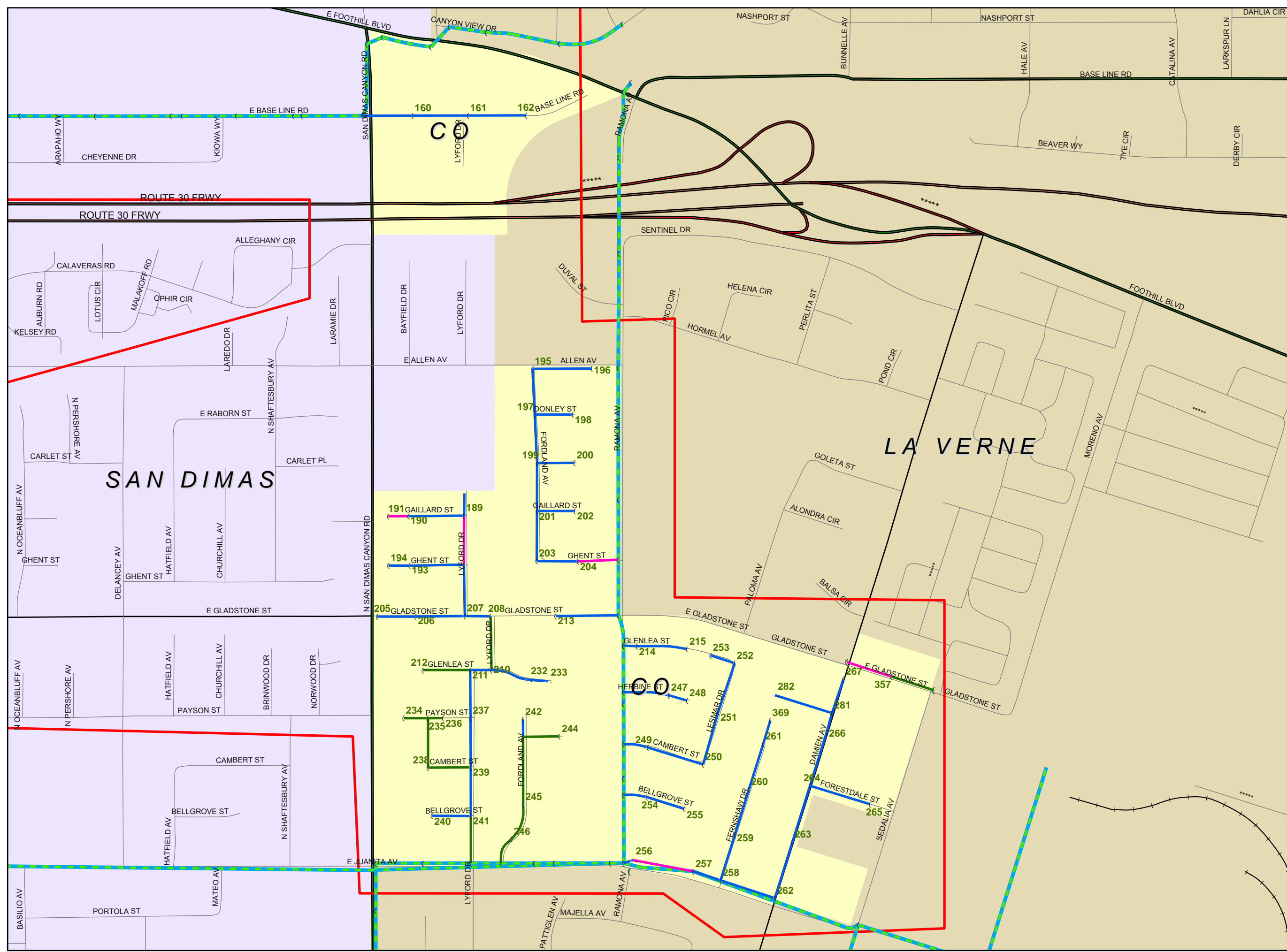
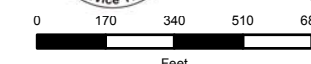
December 11, 2008

ENCLOSURE 2:

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

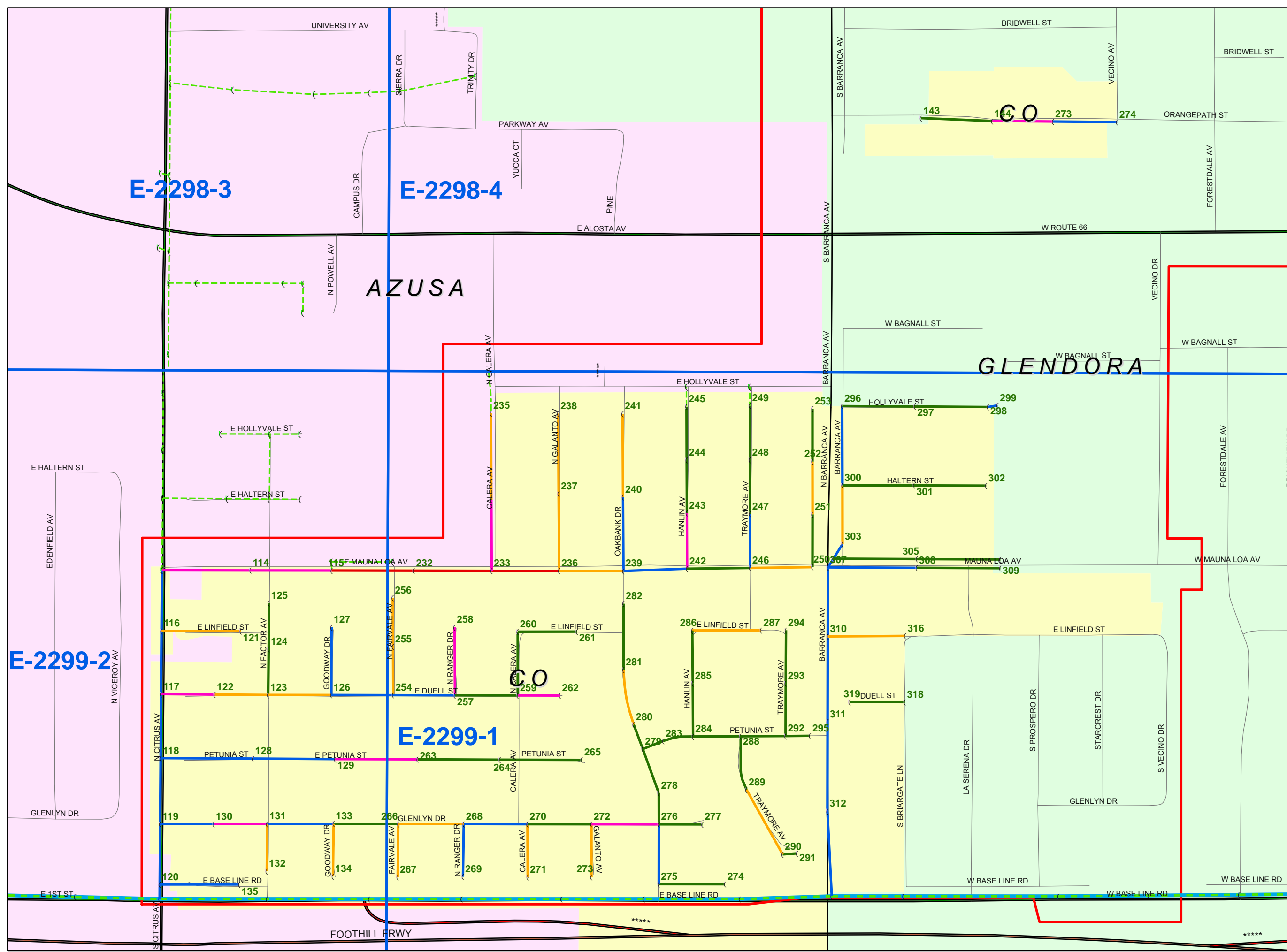
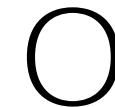
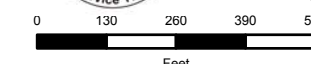
ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 UNINCORPORATED LOS ANGELES COUNTY (Y0TV0506D)
 as of 08/14/06

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5141	2299-0232	2299-0115	MAUNALOA AVE	Roots	Rodder (completed 3/17/09)
2	5131	2299-0233	2299-0232	MAUNALOA AVE	Roots; grease	Rodder (completed 3/17/09)
3	5131	2299-0236	2299-0233	MAUNALOA AVE	Roots	Rodder (completed 3/17/09)
4	4231	2299-0276	2299-0272	GLENLYN DR	Roots	Rodder (completed 8/11/08)
5	4221	2299-0114	2299-CITY	MAUNALOA AVE	Roots	Rodder (completed 3/17/09)
6	4221	2428-0357	2428-CITYW	GLADSTONE ST	High water level	Hydrojet (completed 7/31/08)
7	4200	2428-0191	2428-0190	GAILLARD ST	Roots	Rodder (completed 7/23/08)
8	4132	2299-0243	2299-0242	HANLIN AVE	Roots	Rodder (completed 7/30/08)
9	4131	2299-0131	2299-0130	GLENLYN DR	Roots	Rodder (completed 7/30/08)
10	4131	2299-0258	2299-0257	RANGER DR	Roots	Rodder (completed 8/7/08)
11	4131	2298-0273	2298-0144	ORANGEPATH ST	Roots	Rodder (completed 3/17/09)
12	4131	2299-0115	2299-0114	MAUNALOA AVE	Roots	Rodder (completed 3/17/09)
13	4131	2299-0262	2299-0259	DUELL ST	Roots	Rodder (completed 3/17/09)
14	4123	2299-0234	2299-0233	CALERA AVE	Roots	Rodder (completed 7/30/08)
15	4122	2299-0263	2299-0129	PETUNIA ST	Roots	Rodder (completed 8/11/08)
16	4122	2299-0122	2299-0117	DUELL ST	Roots; obstacle	Rodder (completed 3/17/09)
17	4121	2428-0204	2428-TRNK	GHENT ST	Camera underwater	Hydrojet (completed 3/17/09)
18	4121	2428-0189	2428-0192	LYFORD DR	Roots	Rodder (completed 7/23/08)
19	4121	2428-0257	2428-0256	JUANITA ST	Roots	Rodder (completed 7/24/08)



- Legend**
- SMD Sanitary Sewers**
- QMR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION
- SMD Manholes**
- Other
- MH Type**
- Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Stations
 - SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Trunk Mh
 - DPW: SMD.nosmd.mh
 - Parcel Boundary
 - SMD Operations Maps
 - CCTV PROJECT AREA

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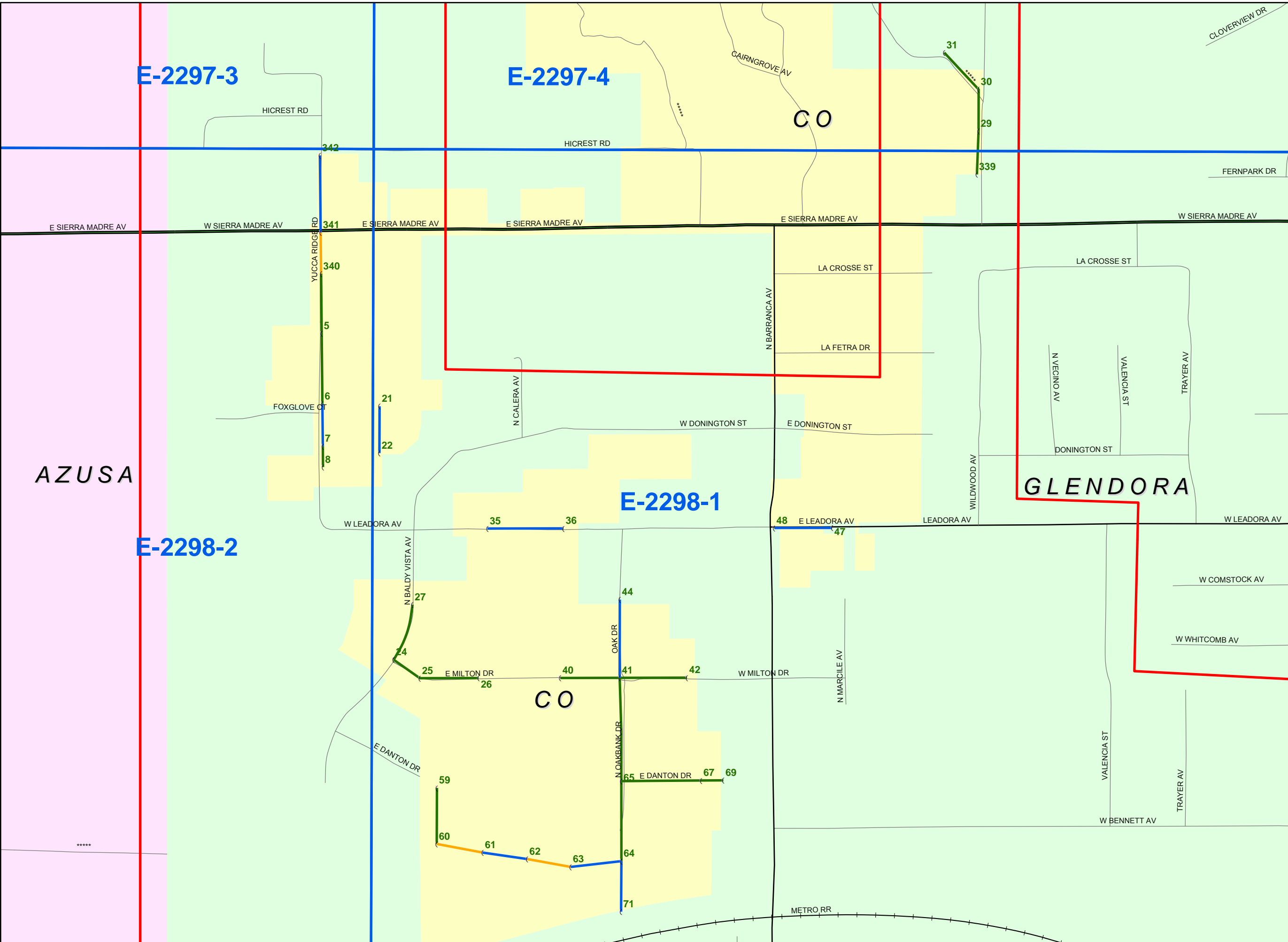
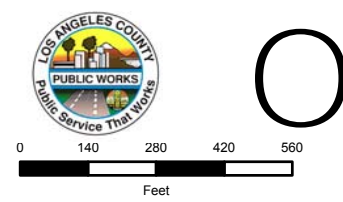


Legend

- SMD Sanitary Sewers**
- QMR**
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QUICK
 MAINTENANCE
 RATING
 (QMR)



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ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 UNINCORPORATED LOS ANGELES COUNTY (Y0TV0506D)
 as of 8/14/06

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5142	2299-0243	2299-0242	HANLIN AVE	Broken with soil visible and fractures: 163'; multiple fractures	Lining: MH to MH	265
2	5121	2299-0134	2299-0133	GOODWAY DR	Broken with soil visible: 95'	Structural integrity intact. No action needed.	-
3	511A	2299-0288	2299-0284	PETUNIA ST	Broken: 172'; multiple cracks	Structural integrity intact. No action needed.	-
4	4200	2428-0189	2428-0192	LYFORD DR	Multiple fractures: 88'	Point Repair	-
5	4100	2428-0261	2428-0260	FERNSHAW DR	Broken: 49'	Structural integrity intact. No action needed.	-

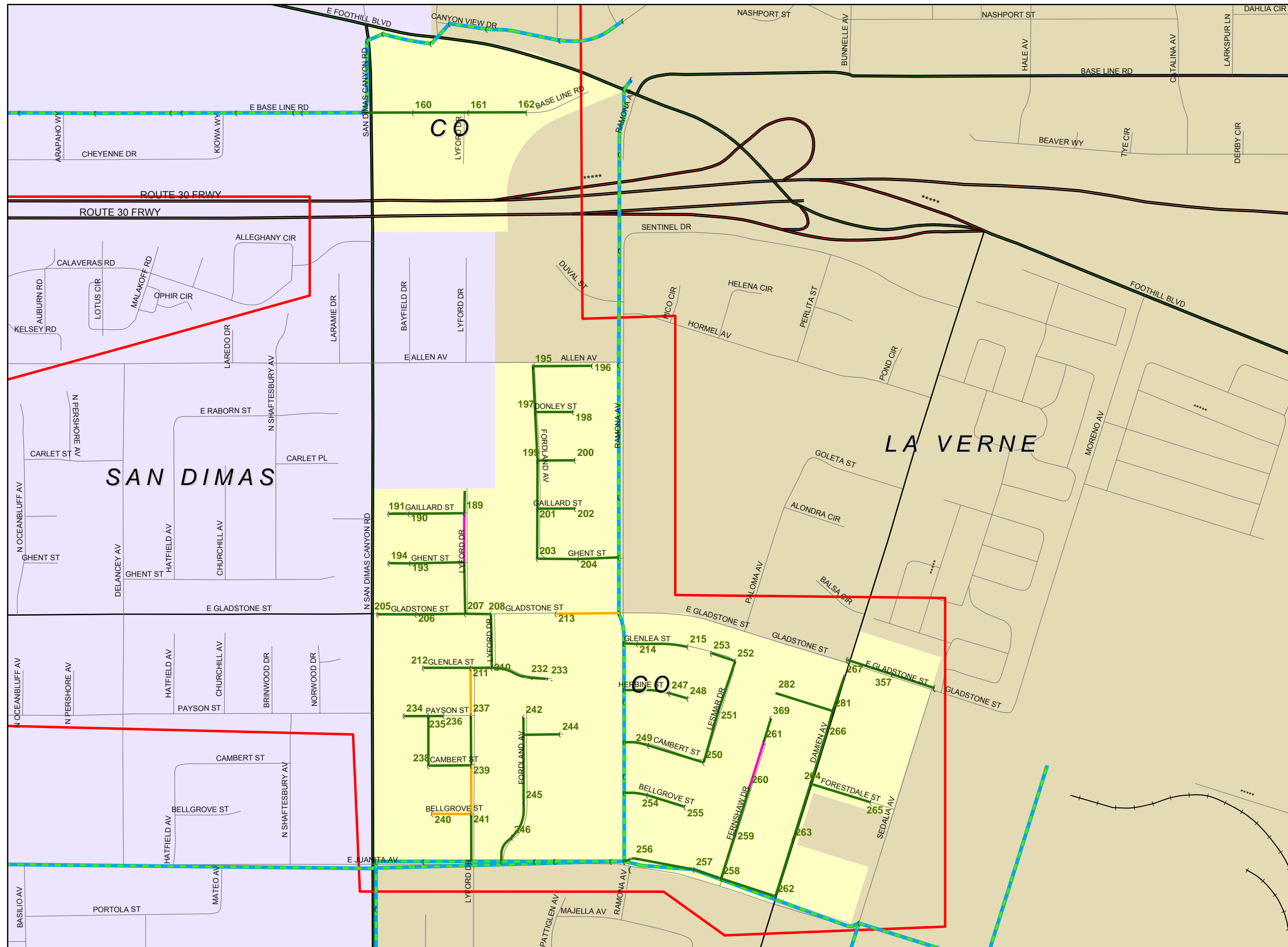
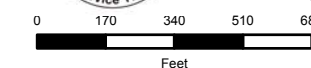
ENCLOSURE 3

CCTV PROJECT

Y0TV0506D

Supervisorial District 5
Unincorporated County

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

QSR

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SMD Manholes

Other

MH Type

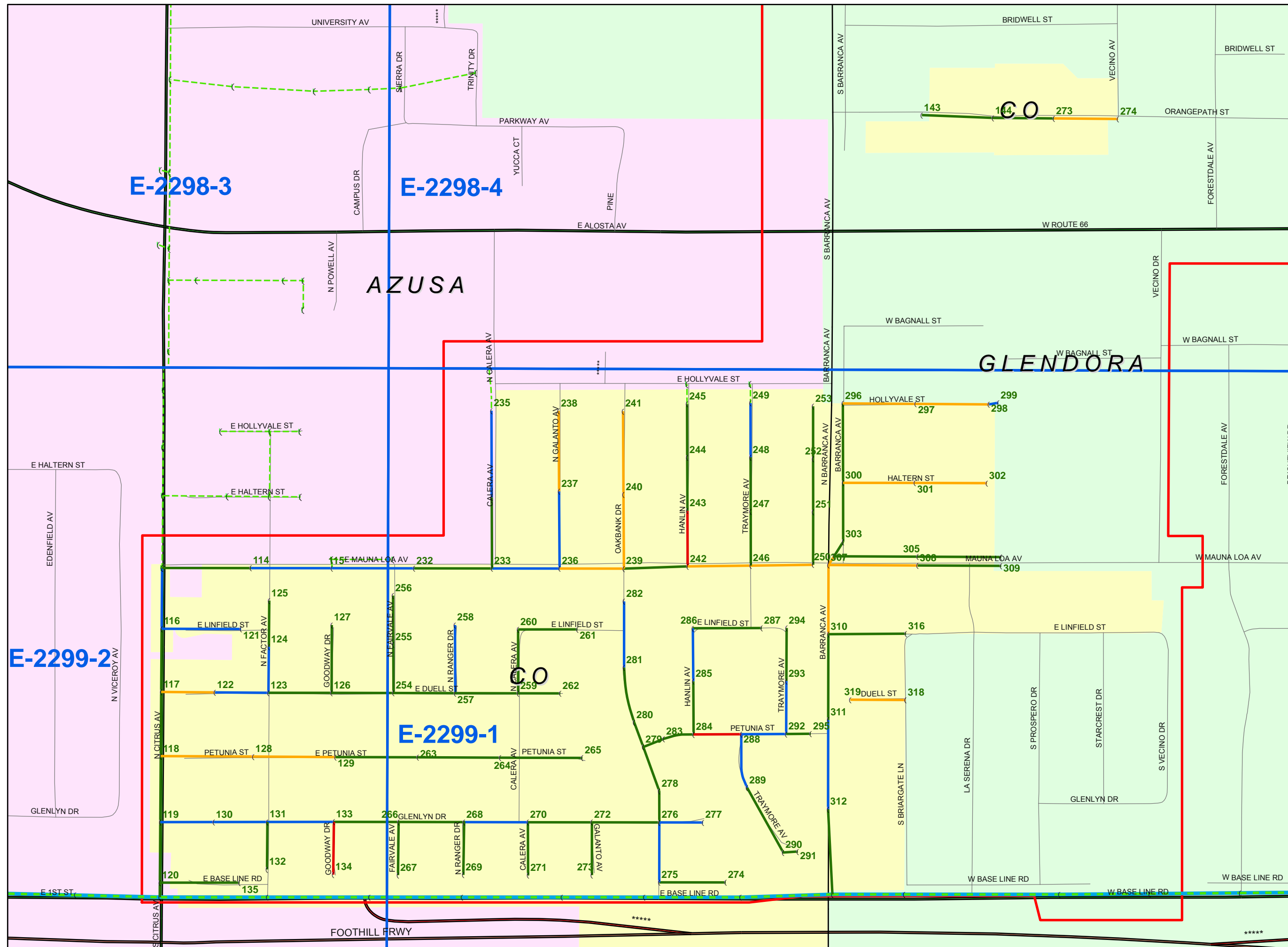
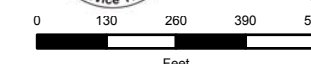
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- DPW: SMD.nosmd.mh
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MARCH 2009



Legend

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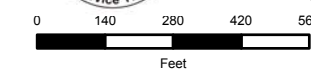
ENCLOSURE 3

CCTV PROJECT

YOTV0506D

Supervisorial District 5
Unincorporated County

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

QSR

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- 2: GOOD
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- 4: POOR
- 5: IMMEDIATE ATTENTION

SMD Manholes

Other

MH Type

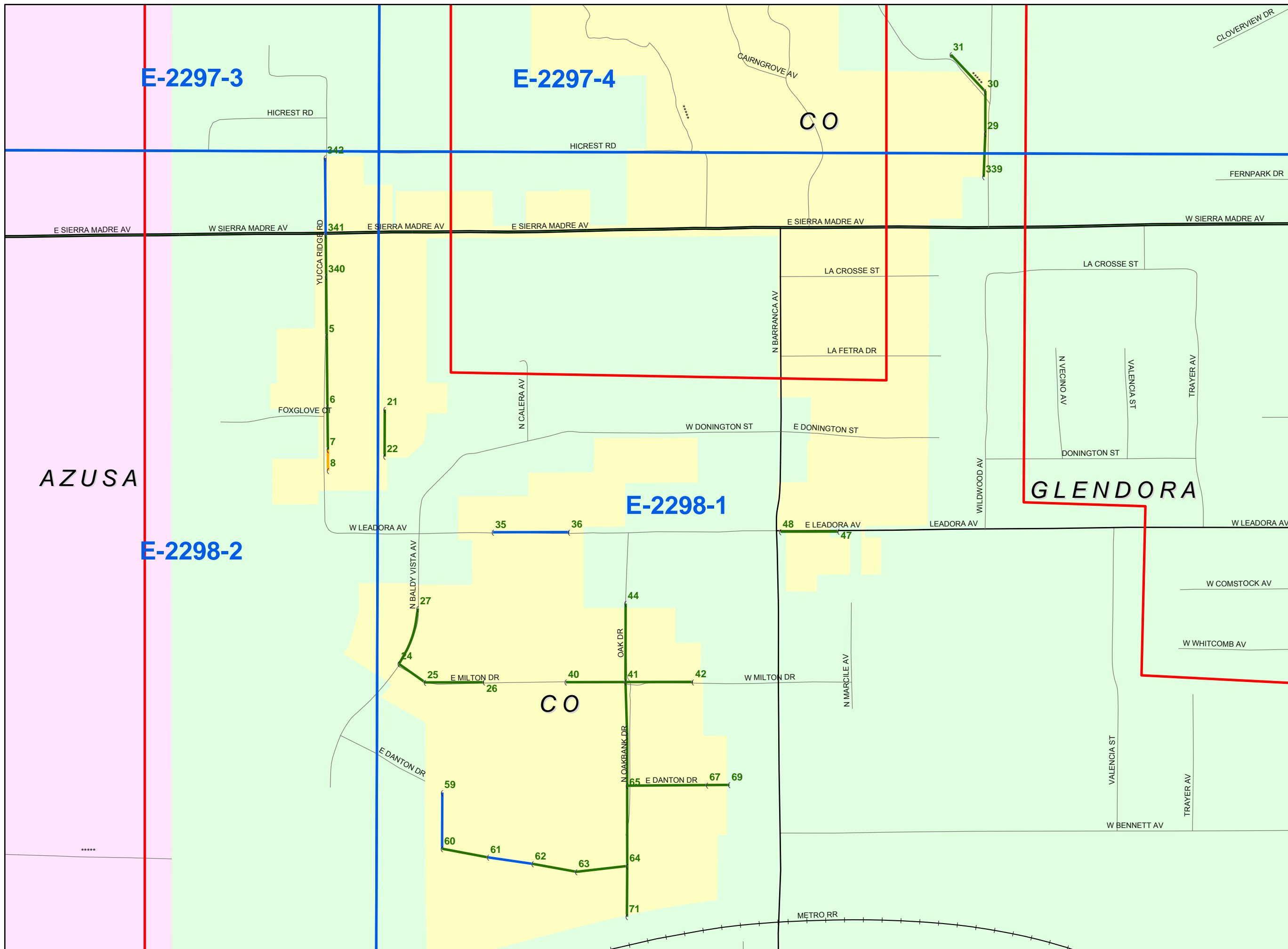
- (Standard
- * DROP
- Shallow
- W Trap
- ? Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
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MARCH 2009



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20060825	P.O. #: Y0TV0506D	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 729	PSR: 98370
Total Pipe Length: 221.00	Survey Customer: LACDPW	System Owner: ZLAE	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 2299

Street: HANLIN AVE	Flow Control: N Not Controlled	Start MH: 2299-0243
City: ZLAE	Year Renewed:	End MH: 2299-0242
Location Code: C Light Highway	Tape Media # M005	pipe length: 264.6 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:
Drain. Area:	Lining Method:
	Category:

Remark::

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 2299-0243	00:00:42	798	
	<u>3.80</u>	Water Level, 5", within 8 inch: NO	00:01:00	799	M 2
	5.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:14	800	
	8.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:33	801	
	16.40	General Observation, within 8 inch: NO, Remarks: PIPE JOINT LENGTH 3 FT	00:02:09	802	
	31.80	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:02:49	803	
	33.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:07	804	
	46.50	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:03:45	805	
	50.70	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:04:13	806	
	<u>50.70</u>	Roots Medium Lateral, at 10 o'clock, 30", within 8 inch: NO	00:04:36	807	M 3
	52.20	Roots Medium Joint, from 7 to 5 o'clock, 50", within 8 inch: YES	00:05:16	808	
	<u>54.80</u>	Fracture Multiple, from 10 to 4 o'clock, within 8 inch: YES	00:06:57	809	S 4
	79.80	Roots Fine Joint, from 1 to 5 o'clock, within 8 inch: YES	00:08:25	810	
	<u>128.40</u>	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: NO	00:10:12	811	S 1
	129.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:31	812	
	132.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:51	813	
	<u>161.80</u>	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:12:31	814	S 4
	<u>162.10</u>	Broken Soil Visible, from 11 to 1 o'clock, within 8 inch: NO	00:12:54	815	S 5
	<u>182.40</u>	Deposits Attached Grease, from 3 to 9 o'clock, 10", within 8 inch: NO	00:13:46	816	M 2
	194.40	Roots Fine Joint, from 11 to 4 o'clock, within 8 inch: YES	00:14:27	817	
	210.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:10	818	
	218.10	Roots Ball Joint, from 7 to 5 o'clock, 75", within 8 inch: YES	00:15:55	819	
	264.60	Manhole, within 8 inch: NO, Remarks: 2299-0242	00:21:18	820	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	3122	14	7	21	3.5	2.33	3



Inspection report

Date: 20060825	P.O. #: Y0TV0506D	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 715	PSR: 98397
Total Pipe Length: 211.00	Survey Customer: LACDPW	System Owner: ZLAE	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 2299

Street: GOODWAY DR	Flow Control: N Not Controlled	Start MH: 2299-0134
City: ZLAE	Year Renewed:	End MH: 2299-0133
Location Code: C Light Highway	Tape/Media # M005	pipe length: 224.9 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:
Drain. Area:	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 2299-0134	00:00:42	602	
	8.00	Water Level, 5", within 8 inch: NO	00:01:37	603	M 2
	9.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:52	604	
	10.90	Crack Circumferential, from 9 to 12 o'clock, within 8 inch: YES	00:02:27	605	S 1
	15.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:50	606	
	25.10	General Observation, within 8 inch: NO, Remarks: PIPE JOINT LENGTH 3 FT	00:03:35	607	
	42.10	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:04:11	608	
	42.10	Roots Medium Lateral, at 3 o'clock, 15", within 8 inch: NO	00:04:30	609	M 3
	44.80	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:04:51	610	
	46.50	Crack Circumferential, from 7 to 11 o'clock, within 8 inch: YES	00:05:22	611	S 1
	47.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:40	612	
	49.00	Joint Offset Medium, within 8 inch: NO	00:06:11	613	S 1
	73.20	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:07:15	614	S 1
	94.80	Broken Soil Visible, from 1 to 2 o'clock, within 8 inch: YES	00:08:16	615	S 5
	94.80	Fracture Circumferential, from 8 to 9 o'clock, within 8 inch: YES	00:08:38	616	S 2
	110.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:18	617	
	110.50	Roots Medium Lateral, at 3 o'clock, 15", within 8 inch: NO	00:09:38	618	M 3
	113.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:57	619	
	224.90	Vermin Cockroach, within 8 inch: NO	00:13:41	620	M 1
	224.90	Manhole, within 8 inch: NO, Remarks: 2299-0133	00:14:00	621	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	3221	11	9	20	1.83	2.25	2



Inspection report

Date: 20060823	P.O. # Y0TV0506D	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 950	PSR: 98285
Total Pipe Length: 189.00	Survey Customer: LACDPW	System Owner: ZLAE	Clean Date:	Pre-Cleaned: J Jetting	Map Grid # 2299

Street: PETUNIA ST	Flow Control: N Not Controlled	Start MH: 2299-0288
City: ZLAE	Year Renewed:	End MH: 2299-0284
Location Code: C Light Highway	Tape/Media # M003	pipe length: 182 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:
Drain Area:	Lining Method:
	Category:

Remark::

1:450	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 2299-0288	00:00:42	693	
	0.00	Vermin Cockroach, within 8 inch: NO	00:01:03	694	M 1
	6.40	Water Level, 5", within 8 inch: NO	00:01:28	695	M 2
2299-0288	13.80	General Observation, within 8 inch: NO, Remarks: PIPE JOINT LENGTH 3 FT	00:02:07	696	
	17.30	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:02:44	697	S 1
	17.30	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:02:26	698	
	42.10	Crack Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:04:02	699	S 1
	43.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:21	700	
	53.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:05:07	701	
	53.80	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:05:30	702	S 1
	63.10	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:06:05	703	S 1
	78.50	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:06:49	704	S 1
	84.60	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:07:18	705	S 1
	92.00	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:07:44	706	
	99.70	Crack Circumferential, from 9 to 10 o'clock, within 8 inch: YES	00:08:19	707	S 1
	108.80	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:08:52	708	
	108.80	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:09:14	709	S 1
	140.90	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:10:27	710	
	148.50	Crack Circumferential, from 9 to 11 o'clock, within 8 inch: YES	00:10:57	711	S 1
	155.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:22	712	
	157.30	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:11:52	713	S 1
	172.80	Broken Soil Visible, from 11 to 12 o'clock, within 8 inch: YES	00:12:48	714	S 5
	182.00	Vermin Cockroach, within 8 inch: NO	00:13:34	715	M 1
2299-0284	182.00	Manhole, within 8 inch: NO, Remarks: 2299-0284	00:13:53	716	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
511A	2112	15	4	19	1.36	1.33	1.36



Inspection report

Date: 20060830	P.O. #: Y0TV0506D	Weather: 1 Dry	Surveyed By: D.solano	section number: 157	PSR: 86158
Total Pipe Length: 258.99	Survey Customer: LACDPW	System Owner: SND	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 2428

Street: LYFORD DR	Flow Control: N Not Controlled	Start MH: 2428-0189
City: SND	Year Renewed:	End MH: 2428-0192
Location Code: C Light Highway	Tape Media # 119	pipe length: 258.99 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: 4.0
Drain. Area:	Lining Method:
	Category:

Remark:: **NONE**

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole			
	0.00	Water Level, 5" of cross sectional area			M 2
	0.00	Water Mark, 10" of cross sectional area			M 2
	28.74	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO, Remark: Heavy roots	00:02:11	1494a	
	49.20	Roots Fine Joint, at 03 o'clock, within 8 inch: YES	00:04:01	1495a	
	76.55	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:05:09		
	87.83 S1	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:06:00	1497a	S 4
	93.12 F1	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:06:33		S 4
	94.31	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: NO	00:06:53		
	162.18	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO	00:10:14		
	194.92	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:11:33		
	195.31	Roots Fine Joint, from 07 to 09 o'clock, within 8 inch: YES	00:11:46	1502a	
	218.47	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO	00:12:34		
	244.42	Roots Fine Joint, at 04 o'clock, within 8 inch: YES	00:14:05		
	248.91	Roots Ball Joint, from 03 to 04 o'clock, 5" , within 8 inch: YES	00:14:23	1506a	
	258.99	Manhole	00:14:54		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	2200	8	4	12	4	2	3



Inspection report

Date: 20060822	P.O. #: Y0TV0506D	Weather: 1 Dry	Surveyed By: D.solano	section number: 100	PSR: 86101
Total Pipe Length: 275.46	Survey Customer: LACDPW	System Owner: SND	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 2428

Street: FERNSHAW DR	Flow Control: N Not Controlled	Start MH: 2428-0261
City: SND	Year Renewed:	End MH: 2428-0260
Location Code: C Light Highway	Tape/Media #: 109	pipe length: 275.46 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: 5.0
Drain. Area:	Lining Method:
	Category:

Remark:: **NONE**

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole			
	0.00	Water Level, 5" of cross sectional area			M 2
	0.00	Water Mark, 10" of cross sectional area			M 2
	8.68	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:01:57		
	11.28	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:02:14		
	47.01	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: YES	00:03:41		
	49.20	Fracture Multiple, from 12 to 03 o'clock, within 8 inch: YES	00:04:56	753ai, b	S 4
	49.70	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:05:34		
	95.61	Tap Factory Made Capped, at 02 o'clock, 4", within 8 inch: NO	00:06:51		
	98.31	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO	00:07:07		
	127.75	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO	00:08:21		
	163.48	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:09:48		
	212.78	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: NO	00:11:26		
	238.83	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: NO	00:12:19		
	275.46	Manhole	00:13:35		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

Unincorporated East Yard

CCTV PROJECT SCHEDULE

FISCAL YEAR	YARD	SUP DIST	PROJECT NAME	LENGTH (FT)*
2005-2006	E		Y0TV0506D	49,010
2005-2006	E		Y0TV0506E	159,262
2007-2008	E		Y0TV0708E	2,354
2007-2008	E		Y0TV0708F	195,437
2008-2009	E		1_8	1,352
2008-2009	E		5_23	300,939
2008-2009	E		Y0TV0809A	213,947
2009-2010	E		1_21	81,262
2009-2010	E		5_22	224,759
2010-2011	E		1_1	265,708
2010-2011	E		4_5	167,551
2010-2011	E		5_25	93,928
2011-2012	E		1_9	108,759
2011-2012	E		5_24	280,289
2011-2012	E		5_27	38,235
2011-2012	E		5_30	33,816
2012-2013	E		1_2	212,358
2012-2013	E		1_5	25,349
2013-2014	E		1_3	303,036
2013-2014	E		1_4	109,207
2013-2014	E		1_6	142,462

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

Unincorporated East Yard**CCTV PROJECT SCHEDULE**

FISCAL YEAR	YARD	SUP DIST	PROJECT NAME	LENGTH (FT)*
2013-2014	E		1_3	303,036
2013-2014	E		1_4	109,207
2013-2014	E		4_6	304,300
2014-2015	E		1_13	269,864
2014-2015	E		1_6	141,202
2015-2016	E		1_20	347
2015-2016	E		5_29	42,526
9999-9999	E		elocated to Project 1_	25,349

TOTAL (FT)	3,624,954
TOTAL (MILES)	687

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