



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

DEAN D. EFSTATHIOU, Acting Director

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P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: **SM-0**

August 28, 2008

Mr. Randy Williams, Director of Public Works
City of Lancaster
44933 Fern Avenue
Lancaster, CA 93534

Attention Mr. Steve Dassler

Dear Mr. Williams:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0708A

This letter is to inform you that during Fiscal Year 2007/08, through our Sewer Condition Assessment Program, we completed the closed-circuit television (CCTV) inspection of 286,089 feet or 16.6 percent of the City of Lancaster's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP) 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)

Mr. Randy Williams
August 28, 2008
Page 2

The Condition Assessment Report will provide you with details regarding the maintenance and structural condition of the portions of your City's sewer mainlines that were televised under our program. This information can be included in your 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 were cleaned and those with severe structural defects were repaired or lined.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Monday through Thursday, 7 a.m. to 4 p.m., at (626) 300-3367 or at rswartz@dpw.lacounty.gov.

Very truly yours,

DEAN D. EFSTATHIOU
Acting Director of Public Works



for MANUEL DEL REAL
Assistant Deputy Director
Sewer Maintenance Division

ML:ag
1549

Enc.

bc: Program Development (Pilker)

bc: MdR, KL, RS, FV, File (Y0TV0708A), SPINDLE

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

PROJECT NAME:	Y0TV0708A	PROJECT MGR:	Marzena Laskowska
PROJECT DATE:	08/22/07 - 10/12/07	CONTACT NO:	(626) 300-3348
SUP. DISTRICT(s):	5	MAP PAGE(S):	1828, 1829, 1830, 1883, 1884
Report By:	Marzena Laskowska	Report Date:	08/21/08

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 286,089 feet or approximately 16.6 percent of the City of Lancaster’s sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0708A included sewer lines located in both the City of Lancaster and the City of Palmdale. 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 infrastructure 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 5 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 94 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 6 percent of the inspected pipe segments within the City of Lancaster area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been addressed with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). We recommend that the City monitor these segments for possible recurrence of these maintenance defects. Also included is a color-coded map showing the quick maintenance rating for each pipe segment and outlines the observation from the CCTV inspection and the corrective action taken by our maintenance staff.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	203,531	71.2	906
2: Good	48,177	16.8	192
3: Fair	17,695	6.2	70
4: Poor	15,418	5.4	58
5: Immediate Attention	1,151	0.4	4
TOTAL	285,972	100	1230

STRUCTURAL REPORT

Our inspection revealed that approximately 99 percent of the inspected pipe segments within the City of Lancaster were free of severe structural defects. However, the remaining 1 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Infrastructure Rating Table shown below. These segments have either been repaired or are not undermining the structural integrity of the pipe as indicated in Enclosure 3. Copies of the actual inspection reports for these 12 segments are included in Enclosure 4. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

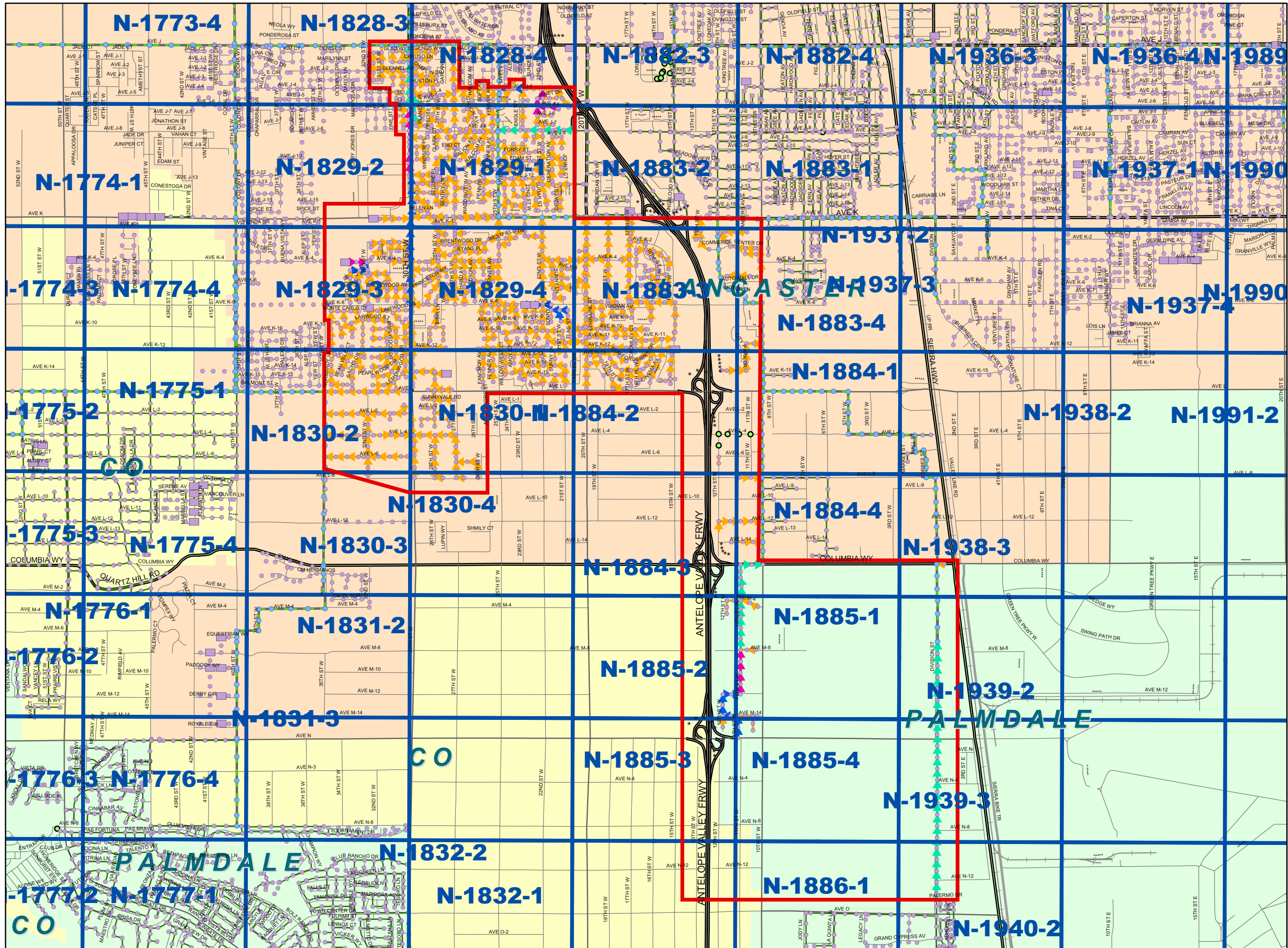
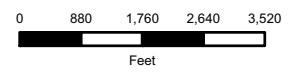
DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	267,415	93.5	1,158
2: Good	10,611	3.7	44
3: Fair	4,633	1.7	16
4: Poor	1,535	0.5	6
5: Immediate Attention	1,778	0.6	6
TOTAL	285,972	100	1230

ENCLOSURE 1:

Project Overview Map

**CCTV PROJECT
LOCATION MAP
YOTV0708A**

Supervisorial
District 5
Lancaster & Palmdale



Legend

SMD Sanitary Sewers

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

SMD Manholes

- Other

TYPE

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

Maintained by Others:

- Trunk MH
- Non SMD Maintained MH
- Trunk Sewers
- Non SMD Sanitary Sewers
- SMD Operations Maps
- CCTV Project Area

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AUGUST 2, 2007

ENCLOSURE 2:

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

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF LANCASTER (Y0TV0708A)
as of 10/12/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5135	1830-0095	1830-0094	AVE L	Calcium deposits	Hydrojet *
2	5134	1884-0006	1884-0007	23RD ST W	Deposits	Hydrojet (Cleaned 12/07)
3	5131	1830-0107	1830-0118	ROADRUNNER WY	Rocks	Hydrojet (Cleaned 11/07)
4	5100	1830-0150	1830-0151	AVE M-8	Concrete	Cleaned out MH 151 (09/07)
5	4A2G	1829-0143	1829-TRNK	AVE K-8	Camera underwater	No action needed.
6	4633	1830-0277	1830-TRNK	AVE L	Grease	Rodder on a 18-month Periodic
7	4431	1883-0223	1883-0222	AVE K-11	Roots	Rodder (Cleaned 12/07)
8	4332	1884-0029	1883-0147	STAFFORDSHIRE DR	Roots	Rodder (Cleaned 12/07)
9	4331	1829-0152	1829-0151	TUNE PL	Roots	Rodder (Cleaned 06/05/08)
10	432A	1829-0061	1829-0047	HALCOM AV	Roots	Rodder on a 90-day Periodic
11	4232	1829-0224	1829-0225	AVE K	Roots	Rodder (Cleaned 6/05/08)
12	4231	1884-0016	1884-0015	VICTORVILLE PL	Roots	Rodder (Cleaned 12/07)
13	4231	1883-0230	1883-0229	WEYAND CT	Roots	Rodder (Cleaned 12/07)
14	422M	1830-0166	1830-0167	AVE L-4	Deposits	Rodder on a 18-month Periodic (Last Cleaned 10/06/07)
15	422A	1829-0225	1829-0226	AVE K	Roots	Rodder (Cleaned 6/05/08)
16	4224	1883-0227	1883-0216	AVE K-4	Roots and deposits	Rodder (Cleaned 8/22/07)
17	4221	1829-0150	1829-0149	FENNER AV	Roots	Rodder (Cleaned 6/05/08)
18	4213	1829-0147	1829-TRNK	AVE J-13	Roots	Rodder (Cleaned 6/05/08)
19	4135	1883-0278	1883-0277	18TH ST. W	Sag	No action needed.
20	4133	1829-0165	1829-0166	27TH ST W	Roots	Rodder (Cleaned 6/05/08)
21	4132	1884-0032	1884-0031	CINEMA AV	Roots	Rodder (Cleaned 12/07)
22	4132	1884-0031	1884-0030	CINEMA AV	Roots	Rodder (Cleaned 12/07)
23	4132	1883-0211	1883-0213	20TH ST W	Roots	Hydrojet on a 90-day Periodic (Last Cleaned 6/25/08)
24	4131	1829-0242	1829-0239	28TH ST W	Roots	Rodder (Cleaned 6/05/08)
25	4131	1829-0238	1829-0237	AVE K-1	Roots	Rodder (Cleaned 6/05/08)
26	4131	1829-0163	1829-0162	East of 27th St W	Roots	Rodder (Cleaned 6/25/08)
27	4131	1829-0156	1829-0158	WEDDINGTON AVE	Roots	Rodder (Cleaned 6/08/08)
28	4131	1828-0068	1828-0067	RADIAN WY	Deposits	Hydrojet *
29	4131	1884-0011	1884-0012	KILHAM AV	Roots	Rodder (Cleaned 12/07)
30	4131	1830-0171	1830-TRNK	11TH ST W	Roots	Rodder (Cleaned 12/07)
31	4131	1829-0403	1829-0402	DARTHMOUTH DR	Roots	Rodder (Cleaned 11/07)
32	412F	1884-0142	1884-TRNK	DIVISION ST	Deposits	Hydrojet *
33	412A	1883-0149	1883-0150	PARK SOMERSET DR	Grease and roots	Rodder (Cleaned 12/07)
34	412A	1830-0188	1830-0189	AVE L-6	Roots	Rodder (Cleaned 12/21/07)
35	4128	1829-0018	1829-0013	East of 30th St W	Roots	Rodder (Cleaned 6/06/08)
36	4124	1829-0366	1829-0367	CHERBOURG LN	Deposits	Rodder (Cleaned 6/06/08)
37	4122	1829-0040	1829-0039	FENNER AV	Roots	Root Foamer (04/09/08)
38	4122	1828-0049	1828-0051	SOFT AV	Roots	Root Foamer (04/09/08)
39	4122	1829-0113	1829-0112	DEJAY ST	Roots	Rodder (Cleaned 4/17/08)
40	4121	1830-0089	1830-0090	20TH ST W	Roots	Hydrojet and Rootsaw (Cleaned 10/11/07)
41	4121	1829-0151	1829-0150	FENNER AV	Roots	Rodder (Cleaned 6/05/08)
42	411B	1883-0222	1883-0221	AVE K-11	Roots	Rodder (Cleaned 12/07)

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CITY OF LANCASTER (Y0TV0708A)
 as of 10/12/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
43	4118	1829-0162	1829-0159	East of 27th St W	Roots	Rodder (Cleaned 6/25/08)
44	4117	1829-0227	1829-0228	AVE K	Roots	Rodder *
45	4117	1883-0229	1883-0228	AVE K-10	Roots	Rodder (Cleaned 12/07)
46	4116	1829-0238	1829-0239	AVE K-1	Roots	Rodder (Cleaned 6/05/08)
47	4111	1883-0226	1883-0227	16TH ST W	Roots	Rodder (Cleaned 8/22/07)
48	4111	1829-0112	1829-0109	DEJAY ST	Roots	Rodder (Cleaned 4/17/08)
49	4111	1883-0188	1883-0210	20TH ST W	Roots	Rodder (Cleaned 12/07)
50	4111	1830-0186	1830-0187	AVE L-6	Roots	Rodder (Cleaned 12/21/07)
51	4100	1884-0002	1884-0001	AVE K-14	Roots	Rodder *
52	4100	1883-0134	1883-0135	East of 12TH ST W	Roots	Hydrojet (Cleaned 8/24/07)
53	4100	1829-0772	1829-0770	15TH ST W	Infiltration	No action needed.
54	4100	1829-0110	1829-0109	TOP CR	Debris	Hydrojet *
55	4100	1829-0017	1829-0016	PLANET CR	Debris	Hydrojet (Cleaned 8/10/07)
56	4100	1884-0028	1884-0029	STAFFORDSHIRE DR	Roots	Rodder (Cleaned 12/07)
57	4100	1884-0015	1883-0152	VICTORVILLE PL	Roots	Rodder (Cleaned 12/07)
58	4100	1883-0216	1883-0217	20TH ST W	Roots	Rodder (Cleaned 12/07)
59	4100	1830-0189	1830-TRNK	AVE L-6	Roots	Rodder (Cleaned 12/21/07)
60	4100	1830-0187	1830-0188	AVE L-6	Roots	Rodder (Cleaned 12/21/07)
61	4100	1830-0159	1830-0161	AVE L-2	Roots	Rodder (Cleaned 12/21/07)
62	4100	1829-0387	1829-0388	ROULETTE LN	Roots	Rodder (Cleaned 11/07)

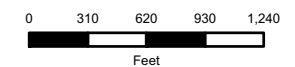
* Indicates that completion of this task could not be verified. We recommend that these segments be cleaned or monitored through the City's manhole inspection program.

ENCLOSURE 2

CCTV PROJECT YOTV0708A

Supervisorial
District 5
Lancaster

QUICK MAINTENANCE RATING (QMR)



Legend

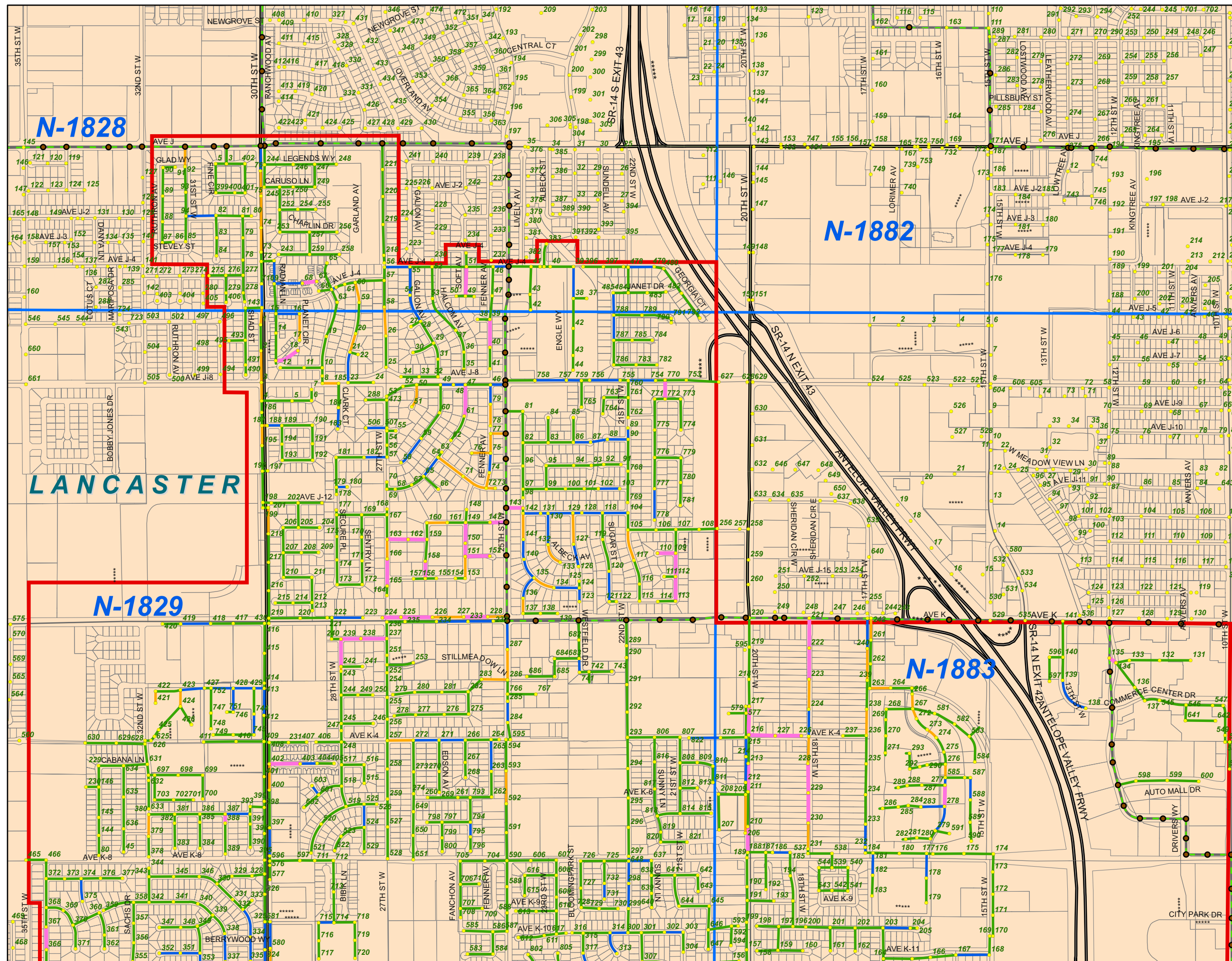
- Trunk Manhole
- Trunk Sewers
- Manhole
- <all other values>

QMR

- 1: EXCELLENT
- 2: GOOD
- 3: FAIR
- 4: POOR
- 5: IMMEDIATE ATTENTION
- SMD Operations Maps
- CCTV Project Area

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DECEMBER 04, 2007

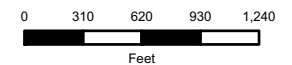


ENCLOSURE 2

CCTV PROJECT YOTV0708A

Supervisorial
District 5
Lancaster

QUICK MAINTENANCE RATING (QMR)



Legend

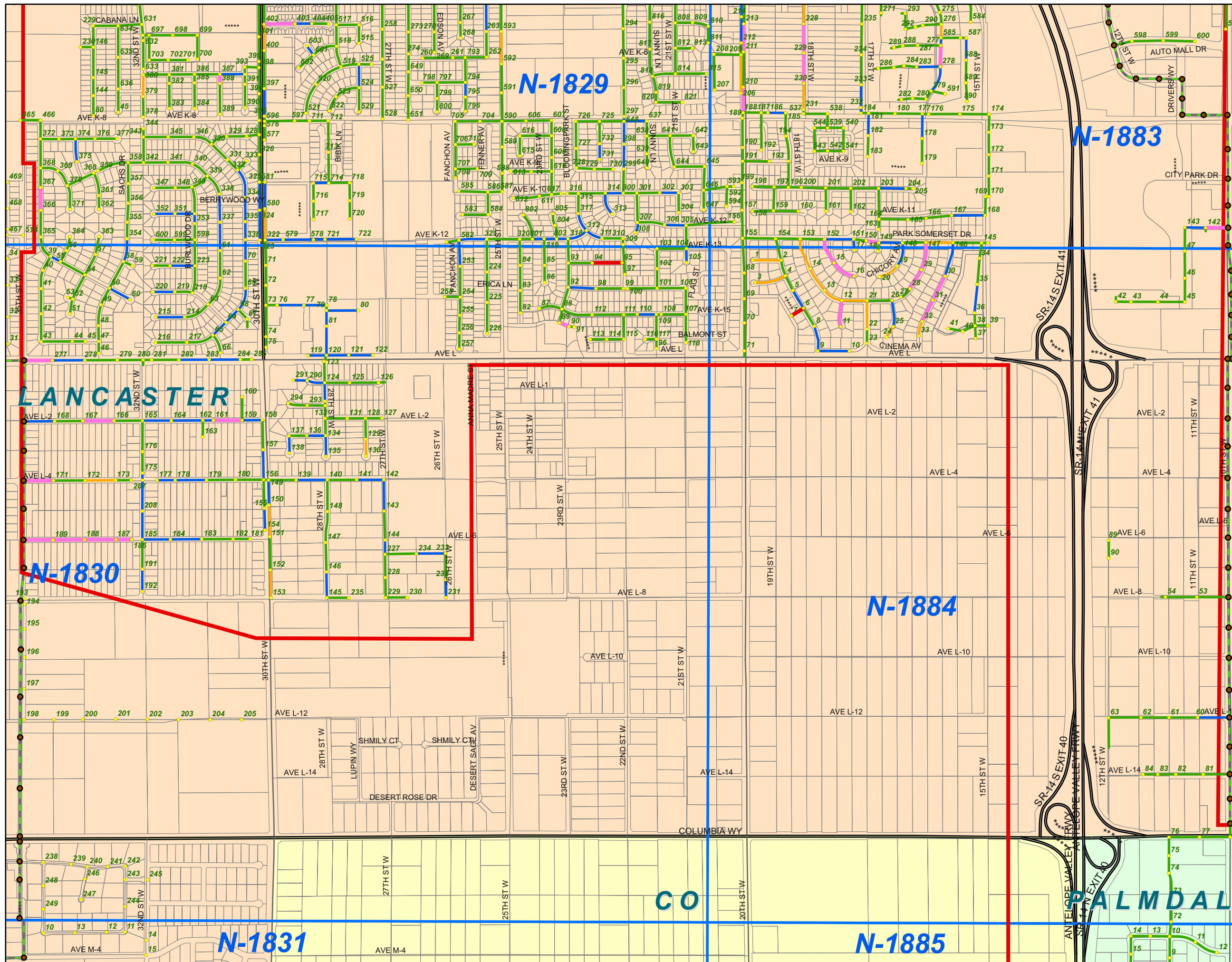
- Trunk Manhole
- Trunk Sewers
- Manhole
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DECEMBER 04, 2007



ENCLOSURE 3:

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

ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 CITY OF LANCASTER (Y0TV0708A)
 as of 10/12/07

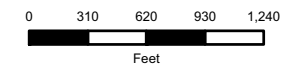
Item No.	QSR	Start MH	End MH	Street	Observation: Location	Corrective Action	Length of Repair (FT)
1	5142	1829-0061	1829-0047	HALCOM AV	Multiple fractures and broken with void visible: 275' to 300'	Sectional Lining (CIPP) - Completed May 2008	25
2	5142	1829-0118	1829-0128	AVE J-12	Missing pipe with gasket showing: 167'	Structural integrity in tact. No action needed.	--
3	5131	1829-0263	1829-0265	FENNER AV	Broken with roots intruding: 227' to 230'	Sectional Lining (CIPP) - Completed May 2008	6
4	5100	1828-0049	1828-0051	SOFT AV	Broken with roots intruding: 57'	Sectional Lining (CIPP) - Completed May 2008	6
5	5100	1828-0253	1828-0252	CASANOVA DR	Broken with soil visible: 130'	Sectional Lining (CIPP) - Completed May 2008	6
6	5100	1829-0113	1829-0112	DEJAY ST	Broken with soil visible: 122'	Sectional Lining (CIPP) - Completed May 2008	6
7	4300	1829-0040	1829-0039	FENNER AV	Deformed: 120' to 130'	Sectional Lining (CIPP) - Completed May 2008	15
8	4221	1829-0064	1829-0071	DALLIN ST	Multiple fractures: 202', 337' and 345'	Lining: MH to MH (Rib-Loc) - Completed May 2008	350
9	4131	1830-0185	1830-0208	32ND ST W	Deformed with fractures: 129'	Sectional Lining (CIPP) - completed May 2008	6
10	4111	1829-0130	1829-0131	AVE J-12	Sag and crack	Structural integrity in tact. No action needed.	--
11	4100	1829-0759	1829-0757	AVE J-8	Fracture	Structural integrity in tact. No action needed.	--
12	4100	1883-0279	1883-0278	16TH ST W	Missing pipe with gasket showing: 76'	Structural integrity in tact. No action needed.	--

ENCLOSURE 3

CCTV PROJECT YOTV0708A

Supervisorial
District 5
Lancaster

QUICK STRUCTURAL RATING (QSR)



Legend

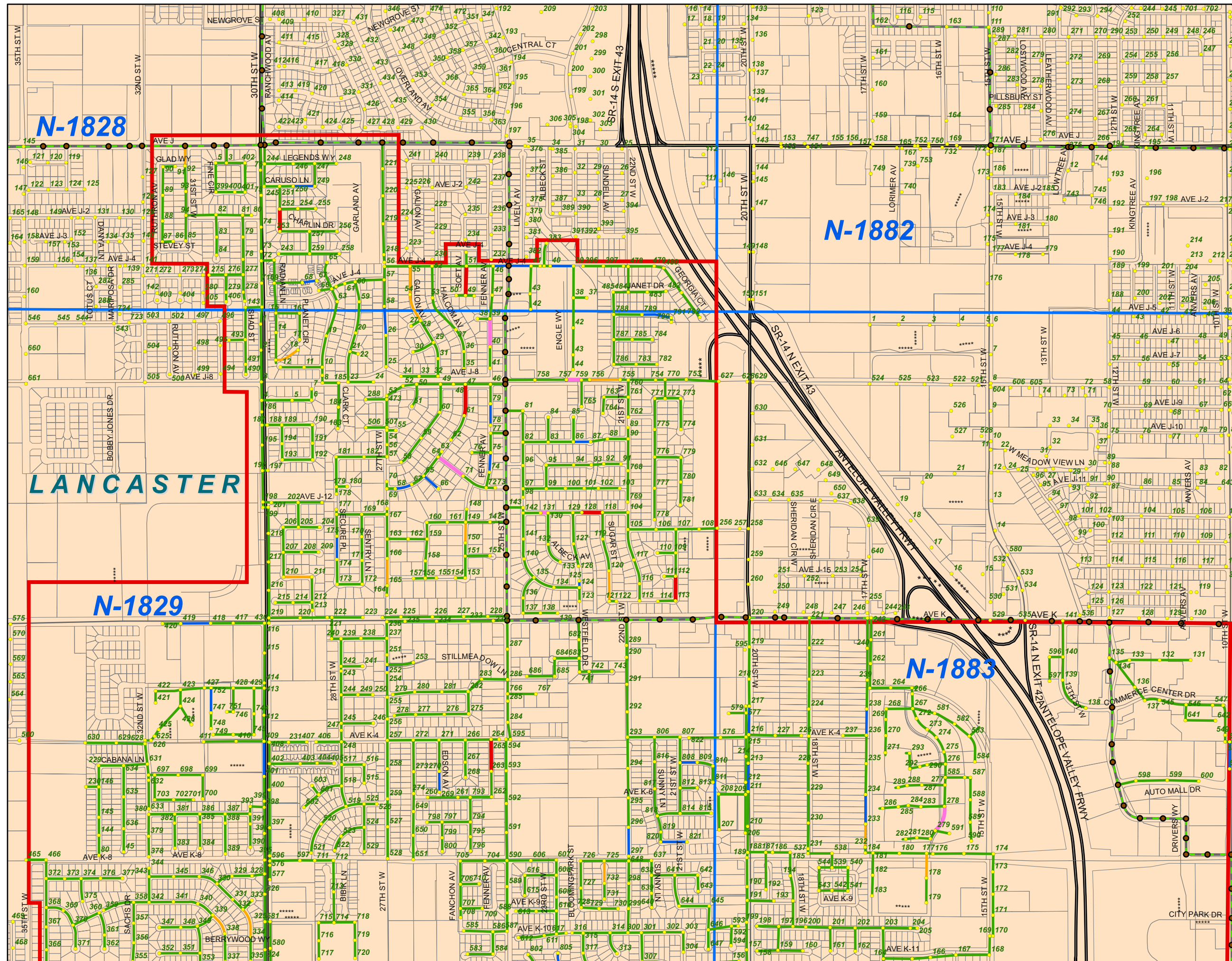
- Trunk Manhole
- Trunk Sewers
- Manhole
- <all other values>

QSR

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- CCTV Project Area

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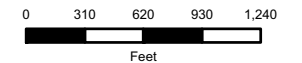


ENCLOSURE 3

CCTV PROJECT YOTV0708A

Supervisorial
District 5
Lancaster

QUICK STRUCTURAL RATING (QSR)



Legend

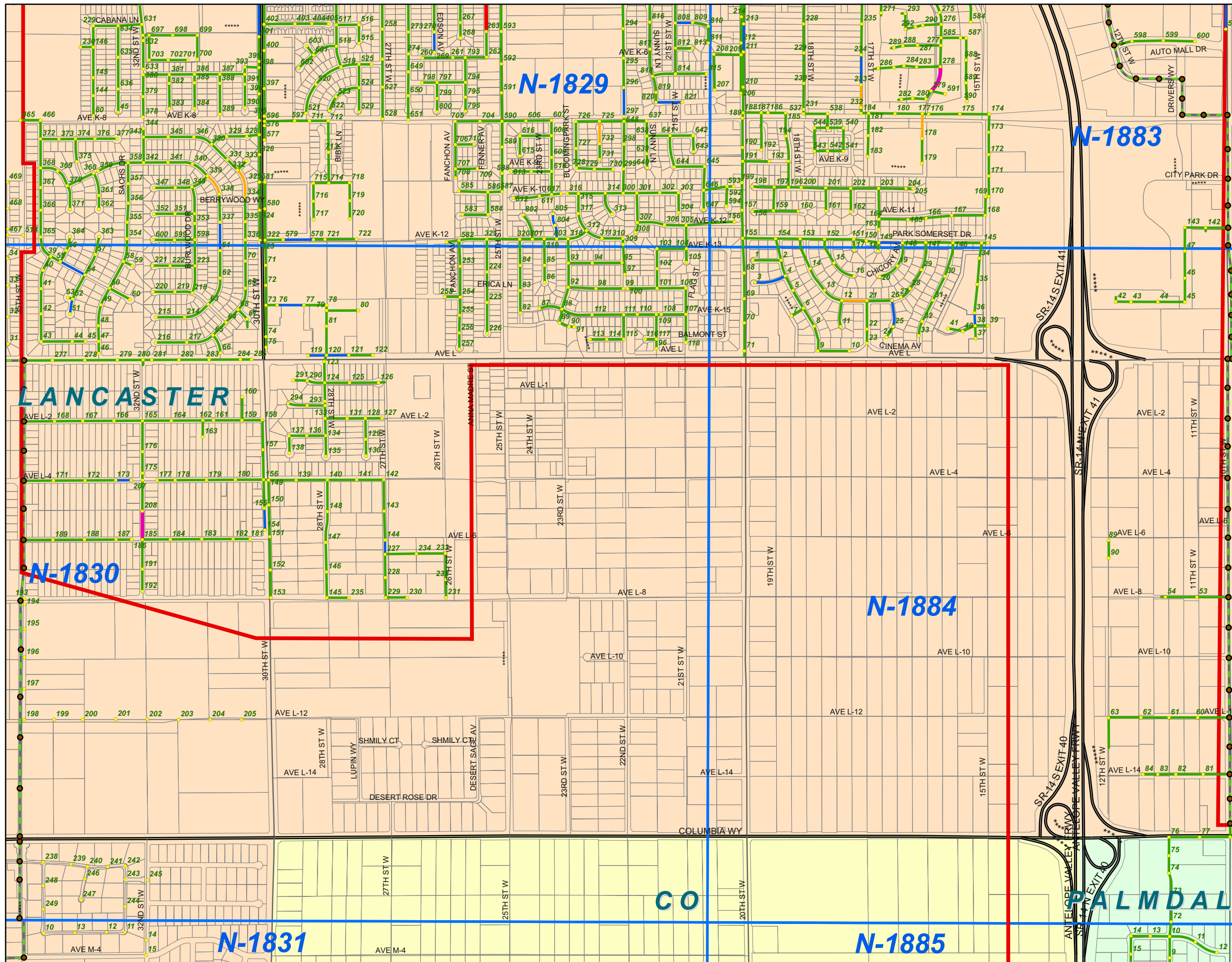
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DECEMBER 04, 2007



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

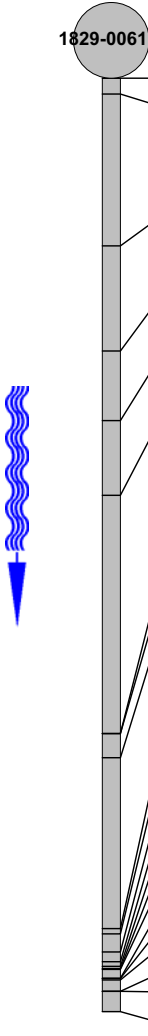
Date: 09/25/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 94	PSR: 57719
Total Pipe Length: 357.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/24/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: HALCOM AV	Flow Control: Not Controlled	Start MH: 1829-0061
City: Lancaster	Year Renewed:	End MH: 1829-0047
Location Code: Light Highway	Tape/Media #: G312-023	Total length surveyed: 355.2 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:713	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1829-0061	00:00:54	992	
	5.00	Water Level, 5 %, within 8 inch: NO	00:01:40	993	
	51.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:54	994	
	84.50	Alignment Left, 5 %, within 8 inch: NO	00:03:53	995, b	M 1
	106.00	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:49	997	
	129.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:05:39	998	
	202.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:47	999	
	202.90	Roots Fine Lateral, from 3 to 6 o'clock, within 8 inch: NO	00:08:12	1000, b	M 1
	210.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:08:57	1002	
	263.10	Water Level, 20 %, within 8 inch: NO	00:10:19	1003	
	264.90	Water Mark, 10 %, within 8 inch: NO	00:10:42	1004	
	270.40	Water Level, 25 %, within 8 inch: NO	00:11:02	1005	
	273.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:11:27	1006, b	M 1
	274.80 S1	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:12:30	1008, b	S 4
	275.50 S3	Water Level Sag, 25 %, within 8 inch: NO, Start	00:20:11	1010	M 2
	275.80	Roots Fine Barrel, from 8 to 9 o'clock, within 8 inch: NO	00:13:36	1011, b	M 2
	278.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:20:55	1013, b	M 1
	278.70	Broken Void Visible, from 7 to 5 o'clock, within 8 inch: YES	00:21:35	1015, b	S 5
	279.00 F1	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:23:26	1019	S 4
	282.50 S2	Water Level Sag, 30 %, within 8 inch: NO, Start	00:24:08	1020	M 2
	282.50 F3	Water Level Sag, 25 %, within 8 inch: NO, End	00:24:38	1021	M 2
	288.90 S4	Camera Underwater, within 8 inch: NO, Start	00:25:08	1022, b	M 4





Inspection report

Date: 09/25/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 94	PSR: 57719
Total Pipe Length: 357.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/24/2007	Pre-Cleaned: Jetting	Map Grid #:

1:713	position	observation	MPEG	photo	grade
	<u>288.90</u> S4	Camera Underwater, within 8 inch: NO, Start	00:25:08	1022, b	M 4
	<u>294.30</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:26:19	1024	
	<u>294.30</u>	Roots Ball Lateral, from 3 to 7 o'clock, 55 %, within 8 inch: NO	00:26:48	1025, b	M 4
	<u>294.30</u> F2	Water Level Sag, 30 %, within 8 inch: NO, End	00:27:18	1028	M 2
	<u>294.30</u> F4	Camera Underwater, within 8 inch: NO, End	00:27:39	1029	M 4
	<u>295.90</u>	Water Level, 10 %, within 8 inch: NO	00:28:22	1030	
	<u>296.30</u>	Fracture Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:29:14	1031, b	S 2
	<u>296.30</u>	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:29:56	1033, b	M 1
	<u>296.90</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:30:36	1035	
	<u>296.90</u>	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:30:58	1036, b	M 1
	<u>355.20</u>	Manhole, within 8 inch: NO, Remarks: 1829-0047	00:33:03	1038	



Inspection report

Date: 09/14/2007	P.O.#: YOTV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1125	PSR: 57669
Total Pipe Length: 228.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/13/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: AVE J-12	Flow Control: Not Controlled	Start MH: 1829-0118
City: Lancaster	Year Renewed:	End MH: 1829-0128
Location Code: Light Highway	Tape/Media #: G312-016	Total length surveyed: 192.5 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:475	position	observation	MPEG	photo	grade
		1829-0118			
	0.00	Manhole, within 8 inch: NO, Remarks: 1829-0118	00:00:54	3055	
	5.00	Water Level, 15 %, within 8 inch: NO	00:01:18	3056	
	28.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:04	3057	
	86.60	S1 Water Level Sag, 20 %, within 8 inch: NO, Start	00:03:33	3058, b	M 2
	103.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:32	3060	
	104.90	F1 Water Level Sag, 20 %, within 8 inch: NO, End	00:04:51	3061	M 2
	104.90	Water Level, 10 %, within 8 inch: NO	00:05:13	3062	
	151.50	S2 Water Level Sag, 20 %, within 8 inch: NO, Start	00:06:26	3063, b	M 2
	161.80	Hole Void Visible, from 1 to 3 o'clock, within 8 inch: YES	00:07:44	3065, b	S 5
	161.80	Broken, from 3 to 4 o'clock, within 8 inch: NO	00:08:25	3067, b	S 3
	161.80	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:08:59	3069, b	S 4
	167.60	F2 Water Level Sag, 20 %, within 8 inch: NO, End	00:10:20	3071	M 2
	167.60	Water Level, 15 %, within 8 inch: NO	00:10:48	3072	
	187.60	Alignment Right, 10 %, within 8 inch: NO	00:11:30	3073, b	M 1
	187.60	Joint Offset Medium, within 8 inch: YES	00:11:59	3075, b	S 1
	192.50	Manhole, within 8 inch: NO, Remarks: 1829-0128	00:12:51	3077	
		1829-0128			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2911	13	19	32	3.25	1.9	2.29



Inspection report

Date: 09/05/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Rodrigo Alvarez	section number: 391	PSR: 57454
Total Pipe Length: 350.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/04/2007	Pre-Cleaned: Jetting	Map Grid #: 1829

Street: FENNER AV	Flow Control: Not Controlled	Start MH: 1829-0263
City: Lancaster	Year Renewed:	End MH: 1829-0265
Location Code: Light Highway	Tape/Media #: R311-007	Total length surveyed: 351.3 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 0263/1829-0265/1829	Lining:
	Category:

Comment:
 Location details:

1:875	position	code	observation	MPEG	photo	grade
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0263	00:00:44	1175	
	<u>9.10</u>	MWL	Water Level, 10 %, within 8 inch: NO	00:2:10	1176	M 2
	14.10	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	00:02:38	1177	
	30.80	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:16	1178	
	33.40	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:37	1179	
	96.20	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:05:29	1180	
	98.40	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:05:49	1181	
	162.00	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:07:39	1182	
	164.60	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:02	1183	
	<u>220.10</u>	DAGS	Deposits Attached Grease, at 8 o'clock, 5 %, within 8 inch: NO	00:09:44	1184, b	M 2
	<u>227.60</u>	FL	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:11:26	1186, b	S 3
	227.60	RFJ	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:12:10	1188	
	<u>228.40</u>	HSV	Hole Soil Visible, at 5 o'clock, within 8 inch: YES	00:13:01	1189, b	S 5
	228.90	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:13:43	1191	
	231.30	TFA	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:14:17	1192	
	<u>231.30</u>	RFL	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	00:14:40	1193, b	M 1
	295.30	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:17:18	1195	
	300.60	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:17:41	1196	
	351.30	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0265	00:19:29	1197	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2211	8	5	13	4	1.67	2.6



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Inspection report

Date: 10/01/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 162	PSR: 58208
Total Pipe Length: 324.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/28/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: SOFT AV	Flow Control: Not Controlled	Start MH: 1828-0049
City: Lancaster	Year Renewed:	End MH: 1828-0051
Location Code: Light Highway	Tape/Media #: A315-006	Total length surveyed: 56.7 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1828	Lining:
	Category:

Comment:
 Location details:

1:150	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1828-0049	00:00:33	1731	
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:25	1732	
	6.00	Water Mark, 15 %, within 8 inch: NO	00:01:51	1733	
	56.70	Roots Medium Barrel, from 12 to 5 o'clock, 15 %, within 8 inch: NO	00:04:29	1734, b	M 4
	56.70	Broken Soil Visible, from 3 to 5 o'clock, within 8 inch: NO	00:05:07	1736, b	S 5
	56.70	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO BROKEN PIPE	00:05:52	1738	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4100	5	4	9	5	4	4.5



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Inspection report

Date: 10/01/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 163	PSR: 58208
Total Pipe Length: 324.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/28/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: SOFT AV	Flow Control: Not Controlled	Start MH: 1828-0051
City: Lancaster	Year Renewed:	End MH: 1828-0049
Location Code: Light Highway	Tape/Media #: A315-006	Total length surveyed: 270.6 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1828	Lining:
	Category:

Comment:
 Location details:

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1828-0051	00:00:35	1739	
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:21	1740	
	6.00	Water Mark, 15 %, within 8 inch: NO	00:01:42	1741	
	29.40	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:02:35	1742	
	37.10	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:03:03	1743	
	106.70	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:05:19	1744	
	114.40	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:05:51	1745	
	178.80	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:07:57	1746	
	186.20	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:08:32	1747	
	261.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:10:56	1748	
	268.60	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:11:28	1749	
	269.50	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:12:15	1750, b	S 3
	269.60	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:12:52	1752, b	S 2
	270.60	Broken, from 7 to 9 o'clock, within 8 inch: NO	00:13:51	1754, b	S 4
	270.60	Roots Medium Barrel, from 7 to 11 o'clock, 20 %, within 8 inch: NO	00:14:37	1756, b	M 4
	270.60	Abandoned Survey, within 8 inch: NO, Remarks: COMPLETE INSPECTION	00:15:31	1758	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4100	9	4	13	3	4	3.25



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Inspection report

Date: 09/27/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Rodrigo Alvarez	section number: 705	PSR: 57939
Total Pipe Length: 249.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/26/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: CASANOVA DR	Flow Control: Not Controlled	Start MH: 1828-0253
City: Lancaster	Year Renewed:	End MH: 1828-0252
Location Code: Light Highway	Tape/Media #: R311-023	Total length surveyed: 246.6 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1828	Lining:
	Category:

Comment:
 Location details:

1:625	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1828-0253	00:00:48	4574	
	14.10	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:02:05	4575	
	20.20	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 6'	00:02:37	4576	
	27.90	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:02	4577	
	83.80	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:40	4578	
	130.40	Hole Soil Visible, at 2 o'clock, within 8 inch: NO	00:06:46	4579, b	S 5
	158.00	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:08:02	4581	
	225.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:09:56	4582	
	246.60	Manhole, within 8 inch: NO, Remarks: 1828-0252	00:10:53	4583	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	0000	5	0	5	5	0	5



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Inspection report

Date: 09/13/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 70	PSR: 57664
Total Pipe Length: 270.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/10/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: DEJAY ST	Flow Control: Not Controlled	Start MH: 1829-0113
City: Lancaster	Year Renewed:	End MH: 1829-0112
Location Code: Light Highway	Tape/Media #: A315-004	Total length surveyed: 122.4 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:300	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: MH 1829-0113	00:00:35	734	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:49	735	M 1
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:19	736	
	6.00	Water Mark, 10 %, within 8 inch: NO	00:01:36	737	
	40.80	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:02:57	738	
	98.70	Roots Fine Joint, from 10 to 5 o'clock, within 8 inch: YES	00:05:28	739, b	M 1
	108.90	Roots Fine Joint, from 7 to 4 o'clock, within 8 inch: YES	00:06:43	741, b	M 1
	122.40	Roots Medium Barrel, at 7 o'clock, 35 %, within 8 inch: NO	00:08:59	743, b	M 4
	122.40	Broken, from 5 to 12 o'clock, within 8 inch: NO	00:12:01	745, b	S 5
	122.40	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO ROOTS / BROKEN PIP	00:12:50	747	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4113	5	7	12	5	1.75	2.4



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Inspection report

Date: 09/13/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 71	PSR: 57664
Total Pipe Length: 270.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/10/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: DEJAY ST	Flow Control: Not Controlled	Start MH: 1829-0112
City: Lancaster	Year Renewed:	End MH: 1829-0113
Location Code: Light Highway	Tape/Media #: A315-004	Total length surveyed: 144.3 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:375	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: MH 1829-0112	00:00:34	748	
	59.50	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:02:38	749	
	138.30	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:05:04	750	
	144.30	Roots Medium Barrel, from 12 to 5 o'clock, 25 %, within 8 inch: NO	00:06:14	751, b	M 4
	144.30	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO ROOTS / COMPLETE I	00:07:21	753	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4100	0	4	4	0	4	4



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Inspection report

Date: 10/01/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 154	PSR: 57710
Total Pipe Length: 309.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/28/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: FENNER AV	Flow Control: Not Controlled	Start MH: 1829-0040
City: Lancaster	Year Renewed:	End MH: 1829-0039
Location Code: Light Highway	Tape/Media #: A315-006	Total length surveyed: 132.2 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:325	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1829-0040	00:00:35	1655	
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:24	1656	
	6.00	Water Mark, 10 %, within 8 inch: NO	00:01:44	1657	
	26.20	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:02:32	1658	
	49.50	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:03:29	1659	
	109.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:05:28	1660	
	120.90 S1	Fracture Multiple, from 1 to 8 o'clock, within 8 inch: YES, Start	00:06:24	1661, b	S 4
	120.90	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:06:58	1663, b	M 1
	125.10	Deformed, 10 %, within 8 inch: NO	00:07:54	1665, b	S 4
	125.90	Roots Fine Joint, from 8 to 12 o'clock, within 8 inch: YES	00:08:33	1667, b	M 1
	130.40	Roots Medium Barrel, from 2 to 5 o'clock, 20 %, within 8 inch: NO	00:09:34	1669, b	M 4
	130.40 F1	Fracture Multiple, from 1 to 8 o'clock, within 8 inch: YES, End	00:10:00	1671	S 4
	132.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:28	1672	
	132.20	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO ROOTS FROM BARREL	00:11:09	1673, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4300	4112	12	6	18	4	2	3



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Inspection report

Date: 10/01/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 155	PSR: 57710
Total Pipe Length: 309.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/28/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: FENNER AV	Flow Control: Not Controlled	Start MH: 1829-0039
City: Lancaster	Year Renewed:	End MH: 1829-0040
Location Code: Light Highway	Tape/Media #: A315-006	Total length surveyed: 159.9 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1829	Lining:
	Category:

Comment:
 Location details:

1:400	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1829-0039	00:00:33	1675	
	4.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:1:10	1676	
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:49	1677	
	6.00	Water Mark, 10 %, within 8 inch: NO	00:02:09	1678	
	83.80	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:04:36	1679	
	158.90	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:06:59	1680	
	159.90	Roots Medium Barrel, from 7 to 10 o'clock, 20 %, within 8 inch: NO	00:07:46	1681, b	M 4
	159.90	Abandoned Survey, within 8 inch: NO, Remarks: COMPLETE INSPECTION	00:08:20	1683	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4100	0	4	4	0	4	4



Inspection report

Date: 09/26/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 116	PSR: 57615
Total Pipe Length: 350.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/25/2007	Pre-Cleaned: Jetting	Map Grid #: 1829

Street: DALLIN ST	Flow Control: Not Controlled	Start MH: 1829-0064
City: Lancaster	Year Renewed:	End MH: 1829-0071
Location Code: Light Highway	Tape/Media #: G312-024	Total length surveyed: 349 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 0064/1829-0071/1829	Lining:
	Category:

Comment:
 Location details:

1:875	position	code	observation	MPEG	photo	grade
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0064	00:01:24	1233	
	5.00	MWL	Water Level, 10 %, within 8 inch: NO	00:02:18	1234	
	76.20	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:04	1235	
	83.90	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:38	1236	
	83.90	RFL	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:05:00	1237, b	M 1
	157.80	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:08	1239	
	175.70	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:07:57	1240	
	192.50	RFJ	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:08:44	1241, b	M 1
	202.70	RMJ	Roots Medium Joint, from 7 to 5 o'clock, 20 %, within 8 inch: YES	00:10:23	1243, b	M 3
	202.70	FC	Fracture Circumferential, from 8 to 11 o'clock, within 8 inch: YES	00:11:21	1245, b	S 2
	239.10	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:14:50	1247	
	256.90	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:16:22	1248	
	320.40	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:18:14	1249	
	337.40	S1 FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:19:34	1250, b	S 4
	342.50	RFJ	Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES	00:21:03	1252, b	M 1
	343.40	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:21:44	1254	
	343.40	RFL	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:22:02	1255, b	M 1
	345.30	F1 FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:23:32	1257	S 4
	348.10	CC	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:24:29	1258, b	S 1
	349.00	VC	Vermin Cockroach, within 8 inch: NO	00:25:14	1260	M 1
	349.00	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0071	00:25:47	1261	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	3115	11	8	19	2.75	1.33	1.9



Inspection report

Date: 08/27/2007	P.O.#: YOTV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 903	PSR: 56795
Total Pipe Length: 318.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 08/24/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: 32ND ST W	Flow Control: Not Controlled	Start MH: 1830-0185
City: Lancaster	Year Renewed:	End MH: 1830-0208
Location Code: Light Highway	Tape/Media #: G312-003	Total length surveyed: 330.6 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 1830	Lining:
	Category:

Comment:
 Location details:

1:825	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1830-0185	00:00:50	365	
	5.00	Water Level, 10 %, within 8 inch: NO	00:01:40	366	
	14.60	Water Level, 15 %, within 8 inch: NO	00:02:05	367	
	69.20	S1 Water Level Sag, 20 %, within 8 inch: NO, Remarks: Begins, Start	00:03:43	368	M 2
	74.30	F1 Water Level Sag, 20 %, within 8 inch: NO, Remarks: Begins, End	00:04:08	369	M 2
	74.40	Water Level, 10 %, within 8 inch: NO	00:04:30	370	
	101.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:24	371	
	108.80	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:05:57	372	
	129.80	Roots Fine Barrel, from 3 to 5 o'clock, within 8 inch: NO	00:07:03	373, b	M 2
	129.80	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:08:00	375, b	S 2
	129.80	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:08:48	377, b	S 2
	129.80	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: NO	00:09:24	379, b	S 1
	129.80	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:09:53	381, b	S 2
	129.80	Deformed, 10 %, within 8 inch: NO	00:11:55	383, b	S 4
	130.70	Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:12:48	385, b	S 2
	130.70	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:13:11	387, b	M 1
	130.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:13:40	389, b	S 3
	167.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:38	391	
	190.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:32	392	
	218.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:17:31	393	
	282.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:21	394	
	316.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:20:29	395	
	316.30	Roots Tap Lateral, from 3 to 5 o'clock, 15 %, within 8 inch: NO	00:21:03	396, b	M 2
	330.60	Manhole, within 8 inch: NO, Remarks: 1830-0208	00:22:08	398	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2311	16	7	23	2.29	1.75	2.09



WinCan America, Inc.
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Inspection report

Date: 09/17/2007	P.O.#: YOTV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1154	PSR: 57558
Total Pipe Length: 83.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/14/2007	Pre-Cleaned: Jetting	Map Grid #: 1829

Street: AVE J-12	Flow Control: Not Controlled	Start MH: 1829-0130
City: Lancaster	Year Renewed:	End MH: 1829-0131
Location Code: Light Highway	Tape/Media #: G312-017	Total length surveyed: 89.8 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 0130/1829-0131/1829	Lining:
	Category:

Comment:
 Location details:

1:225	position	code	observation	MPEG	photo	grade
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0130	00:00:45	3493	
	5.00	MWL	Water Level, 10 %, within 8 inch: NO	00:01:16	3494	
	39.40	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:11	3495	
	40.90	S1 MWLS	Water Level Sag, 20 %, within 8 inch: NO, Start	00:02:35	3496, b	M 2
	76.90	F1 MWLS	Water Level Sag, 20 %, within 8 inch: NO, End	00:03:58	3498	M 2
	76.90	MWL	Water Level, 15 %, within 8 inch: NO	00:04:19	3499	
	87.30	FM	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:05:18	3500, b	S 4
	87.30	JOM	Joint Offset Medium, within 8 inch: YES	00:05:58	3502, b	S 1
	89.80	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0131	00:06:41	3504	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2900	5	18	23	2.5	2	2.09



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Inspection report

Date: 09/20/2007	P.O.#: YOTV0708A	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1209	PSR: 56971
Total Pipe Length: 169.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/20/2007	Pre-Cleaned: Heavy Cleaning	Map Grid #: 1829

Street: AVE J-8	Flow Control: Not Controlled	Start MH: 1829-0759
City: Lancaster	Year Renewed:	End MH: 1829-0757
Location Code: Main Highway - Suburban/Rural	Tape/Media #: G312-020	Total length surveyed: 143.8 ft

Purpose: Maintenance Related	Dia/Height: Circular 15"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 0757/1829-0759/1829	Lining:
	Category:

Comment:
 Location details:

1:375	position	code	observation	MPEG	photo	grade
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0759	00:00:53	4051	
	2.00	FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:01:49	4052, b	S 4
	6.00	MWL	Water Level, 15 %, within 8 inch: NO	00:02:33	4054	M 2
	52.50	DNF	Deposits Ingressed Fine, from 8 to 4 o'clock, 5 %, within 8 inch: NO, Remarks: Silt	00:04:14	4055, b	M 2
	143.80	AMH	Manhole, within 8 inch: NO, Remarks: 1829-0757	00:07:20	4057	

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



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Inspection report

Date: 09/17/2007	P.O.#: Y0TV0708A	Weather: Dry	Surveyed By: Rodrigo Alvarez	section number: 527	PSR: 50052
Total Pipe Length: 306.00	Survey Customer: LACDPW	System Owner: Lancaster	Clean Date: 09/14/2007	Pre-Cleaned: Jetting	Map Grid #: 1829

Street: 16TH ST W	Flow Control: Not Controlled	Start MH: 1883-0279
City: Lancaster	Year Renewed	End MH: 1883-0278
Location Code: Light Highway	Tape/Media #: R311-015	Total length surveyed: 339.5 ft

Purpose: Maintenance Related	Dia/Height: Circular 8"
Use: Sanitary	Material: Vitrified Clay Pipe Pipe Joint length:
Drain. Area: 0278/1883-0279/1883	Lining:
	Category:

Comment:
 Location details:

1:850	position	code	observation	MPEG	photo	grade
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1883-0279	00:00:51	2832	
	7.60	MWL	Water Level, 10 %, within 8 inch: NO	00:01:30	2833	M 2
	13.60	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 6'	00:01:58	2834	
	76.40	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:26	2835	
	76.70	B	Broken, at 8 o'clock, within 8 inch: NO, Remarks: Pipe Missing At Joint	00:04:51	2836, b	S 4
	143.40	S1	MWLS Water Level Sag, 25 %, within 8 inch: NO, Start	00:06:44	2838, b	M 2
	154.20	F1	MWLS Water Level Sag, 25 %, within 8 inch: NO, End	00:07:25	2840	M 2
	154.20	MWL	Water Level, 10 %, within 8 inch: NO	00:07:46	2841	M 2
	180.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:41	2842	
	301.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:45	2843	
	339.50	AMH	Manhole, within 8 inch: NO, Remarks: 1883-0278	00:13:17	2844	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2400	4	8	12	4	2	2.4