



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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April 12, 2011

IN REPLY PLEASE
REFER TO FILE **SM-1**

Mr. Victor Rollinger, Service General Manager
City of Carson
701 East Carson Street
Carson, CA 90745

Attention Mr Gilbert Marquez

Dear Mr. Rollinger:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0809D**

This letter 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 inspection of 199,734 feet or 22.2 percent of the City of Carson's sewer system.

The enclosed 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)
- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Victor Rollinger
April 12, 2011
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The Condition Assessment Report will provide you with details regarding the maintenance and structural condition of your City's sewer mainlines. 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 have been cleaned and 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.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



KEITHE. LEHTO
Assistant Deputy Director
Sewer Maintenance Division

 HK:dh
CoverLetter/ProjNo.Y0TV0809D

Enc.

bc. Programs Development (MANNING)

KL, MM, RS, FV, **File** (Project Y0TV0809D), SPINDLE

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

PROJECT NAME:	Y0TV0809D	PROJECT MGR:	Eric Liu
PROJECT DATE:	01/26/2009	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	2	MAP PAGE(S):	1705, 1706, 1760 & 1761
Report By:	Hanna Kebede	Report Date:	03/09/2011

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 199,734 feet or 22.2 percent of the City of Carson' sewer system.

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 Y0TV0809D included sewer lines located in the Cities of Carson, Palmdale, Palos Verdes Estates and Rolling Hills Estates and unincorporated County of Los Angeles area. Enclosed for your reference is an overview map of the project area within your City (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: Severe 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 71.5 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 28.5 percent of the inspected pipe segments within the City of Carson area had a PACP maintenance grade of 3, 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 on this list are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines; it is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. A letter will be sent to the lateral owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	108,988	54.6	498
2: Good	33,726	16.9	152
3: Fair	33,145	16.6	124
4: Poor	20,978	10.5	87
5: Immediate Attention	2,897	1.4	15
TOTAL	199,734	100.0	876

High Water Levels

Our inspection revealed that approximately 97.3 percent of the system televised has adequate capacity. However, the remaining 2.7 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a temporary stoppage

due to debris in the sewer lines, or a sag in the line. Therefore, additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

Infiltration

Our inspection revealed that approximately 0.5 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration has been found are listed on the Infiltration table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project.

A map showing the sewer lines with high water levels and infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 97.1 percent of the inspected pipe segments within the City of Carson were free of severe structural defects. However, the remaining 2.9 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. The segment has been placed on a priority list based on the severity and the need for action. For Items 1 through 24 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 report for these 24 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	122,125	61.1	550
2: Good	46,660	23.4	186
3: Fair	25,145	12.6	116
4: Poor	1,521	0.8	7
5: Immediate Attention	4,283	2.1	17
TOTAL	199,734	100.0	876

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of Carson according to the following schedule.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2008-2009	Y0TV0809D	199,734	22.2	COMPLETED
2009-2010	Y0TV0910D	223,795	24.8	IN PROGRESS
2013-2014	2_5	273,838	30.4	FUTURE
2014-2015	2_4	203,659	22.6	FUTURE
TOTAL		901,026	100.0	

ENCLOSURE 1:

Project Overview Map

ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- Infiltration
- High Water Levels and Infiltration Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
1	5241	1706-0491	1706-0489	EASEMENT by PACIFIC ST	Deposits: attached grease	Hydrojet	10/13/2010
2	5232	1761-0095	1761-0093	238TH ST	Deposits: attached grease; roots	Hydrojet	10/18/2010
3	5231	1761-0077	1761-0078	ALLEY BY LINCOLN ST	Deposits: attached grease	Hydrojet	10/18/2010
4	513D	1761-0244	1761-0245	ALLEY BY LOMITA BL	Deposits: attached grease; water level high	Hydrojet	10/18/2010
5	5131	1706-0541	1706-0543	EASEMENT by GULF AV	Deposits: attached grease	Hydrojet	10/28/2010
6	5131	1705-0622	1705-0621	EASEMENT by FIGUERROA ST	Obstacle: near MH 621	Rodded	10/29/2010
7	512T	1761-0088	1761-0087	REALTY ST	Deposits: attached grease	Hydrojet	10/18/2010
8	512C	1761-0174	1761-0175	CAMEL BACK NORTH	Deposits: attached grease; roots	Hydrojet	10/18/2010
9	5122	1706-0316	1706-0277	CAROLDALE AV	Roots: water level sag (35%)	Hydrojet	01/21/2011
10	5121	1706-0488	1706-0489	PACIFIC ST	Deposits: attached grease	Hydrojet	10/13/2010
11	5112	1761-0079	1761-0080	ALLEY BY AVALON BL	Deposits: attached encrustation	Hydrojet	10/18/2010
12	5111	1761-0024	1761-TRNK	REALTY ST	Infiltration gusher: 11'	Hydrojet	10/18/2010
13	5100	1705-0569	1706-0325	EASEMENT by W 229TH ST	Deposits	Rodded	10/29/2010
14	5100	1706-0436	1706-0435	MAIN ST	Deposits: attached grease	Rodded	10/22/2010
15	5100	1705-0979	1705-0978	EASEMENT by FIGUERROA ST	Obstacle: near MH 978	Rodded	10/29/2010
16	4C00	1761-0002	1761-0301	ISLAND AV	Water level sag (40%-50%); camera underwater	Hydrojet	10/18/2010
17	4C00	1705-0595	1705-0594	228TH ST	Camera underwater entire segment	Rodded	10/22/2010
18	4A3A	1706-0431	1706-0432	MAIN ST	Water level sag (50%); camera underwater	Hydrojet	10/13/2010
19	4A31	1761-0112	1706-0661	EASEMENT BY MARIBEL AV	Deposits: attached grease	Hydrojet	10/18/2010
20	461C	1706-0370	1706-0369	233RD ST	Roots	Rodded	10/08/2010
21	4632	1706-0369	1706-0368	233RD ST	Roots	Rodded	10/08/2010
22	441E	1706-0371	1706-0370	233RD ST	Roots	Rodded	10/08/2010
23	4434	1761-0185	1761-0186	TOMAHAWK LN	Roots; deposits	Rodded	10/14/2010
24	4432	1706-0368	1706-0367	233RD ST	Roots	Rodded	10/08/2010
25	4335	1706-0255	1706-0256	ORCHARD AV	Roots	Rodded	10/15/2010
26	4334	1706-0375	1706-0374	234TH ST	Roots	Rodded	10/15/2010
27	4334	1706-0404	1706-0405	ARCHIBALD AV	Roots	Rodded	10/08/2010
28	4333	1706-0391	1706-0390	235TH ST	Deposits: attached grease; water level sag	Hydrojet	10/13/2010
29	4332	1761-0172	1761-0178	PALAMINO LN	Roots	Rodded	10/29/2010
30	4332	1761-0275	1761-0274	INDIAN SCHOOL LN	Deposits: attached grease; roots	Rodded	10/14/2010
31	4331	1761-0076	1706-0493	ALLEY BY FRIES AV	Deposits: attached grease; roots	Hydrojet	10/03/2010
32	4331	1705-0535	1705-0534	MONETA AV	Roots; high water level	Rodded	10/22/2010
33	4313	1706-0392	1706-0391	235TH ST	Water level (25%)	Hydrojet	10/13/2010
34	423J	1706-0327	1706-0318	231ST ST	Water level sag (30%- 50%); camera underwater	Hydrojet	10/13/2010
35	423D	1705-0529	1705-0408	223RD ST	Water Level sag (50%); camera underwater	Rodded	10/22/2010
36	4233	1706-0388	1706-0387	234TH ST	Roots	Rodded	10/08/2010
37	4233	1706-0399	1706-0400	235TH ST	Water level (25%-30%)	Rodded	10/08/2010
38	4233	1706-0372	1706-0373	233RD ST	Roots	Rodded	10/08/2010
39	4233	1761-0272	1761-0273	JACKRABBIT LN	Roots	Rodded	10/14/2010
40	4232	1705-0550	1705-0551	226TH ST	Roots: lateral 7' and 320'	Lateral notice will be sent to property owner.	
41	4231	1706-0664	1706-0588	CATSKILL AV	Roots; water level (10%-20%)	Hydrojet	10/18/2010
42	4231	1705-0552	1705-0553	226TH ST	Roots	Rodded	10/18/2010
43	4231	1706-0396	1706-0397	235TH ST	Deposits: attached grease; water level sag (35%)	Rodded	10/08/2010
44	4231	1706-0404	1706-0409	CARRIAGEDALE DR	Roots; water level (20%-25%)	Rodded	10/08/2010
45	4231	1706-0404	1706-0403	CARRIAGEDALE DR	Roots; water level (20%-25%)	Rodded	10/08/2010
46	4231	1706-0402	1706-0403	NAFFA AV	Roots	Rodded	10/08/2010
47	4231	1761-0196	1761-0197	LARIAT LN	Roots inside lateral	Lateral notice will be sent to property owner.	
48	4211	1761-0230	1761-0231	ALLEY BY LOMITA BL	Alignment down (25%); obstacle near MH 231	Hydrojet	10/03/2010
49	4211	1706-0432	1706-0433	MAIN ST	Water level sag (80%); camera underwater	Rodded	10/22/2010
50	4200	1706-0436	1706-0437	MAIN ST	Roots	Rodded	10/08/2010
51	413F	1706-0514	1706-0513	EASEMENT BY MARIBELLA AV	Deposits: attached grease	Hydrojet	10/28/2010
52	413D	1706-0334	1706-0331	231ST ST	Water level sag (50%); camera underwater	Hydrojet	10/13/2010
53	413D	1761-0140	1761-0139	SCOTTSDALE NORTH	Deposits: attached grease	Hydrojet	10/18/2010
54	413C	1761-0237	1761-0235	FRIES AV	Deposits: attached grease	Rodded	10/15/2010
55	413A	1761-0035	1761-0036	BANNING BV	Deposits: attached grease	Rodded	10/15/2010
56	4138	1706-0489	1706-0486	EASEMENT by PACIFIC ST	Deposits: attached grease	Hydrojet	10/28/2010
57	4135	1761-0300	1761-0059	WILMINGTON AV	Water level sag (50%-65%); camera underwater	Hydrojet	10/18/2010
58	4135	1761-0171	1761-0177	QUAIL ROW LN	Roots	Rodded	10/15/2010
59	4134	1705-0533	1705-0534	223RD ST	Water level (35%-50%); camera underwater	Rodded	10/15/2010
60	4134	1761-0173	1761-0179	OCOTILLO LN	Roots	Rodded	10/15/2010
61	4133	1761-0194	1761-0195	MESQUITE LN	Roots; water level high	Rodded	10/15/2010
62	4133	1705-0536	1705-0535	MONETA AV	Roots; water level (20%-25%)	Rodded	10/15/2010
63	4133	1706-0408	1706-0407	ATMORE AV	Deposits: attached grease; encrustation 216'-225'	Rodded	10/22/2010
64	4132	1705-0576	1705-0575	EASEMENT by NICOLLE AV	Roots	Rodded	10/22/2010
65	4132	1706-0373	1706-0274	233RD ST	Roots	Hydrojet	10/05/2010
66	4132	1706-0408	1706-0409	ATMORE AV	Roots	Hydrojet	10/05/2010

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
67	4132	1761-0199	1761-0200	KINSWOOD LN	Roots inside lateral	Lateral notice will be sent to property owner.	
68	4131	1706-0611	1706-0610	ALLEY BY E 237TH ST	Deposits: attached grease; water level high (25%)	Hydrojet	10/04/2010
69	4131	1706-0694	1706-0586	ALLEY BY DOLORES ST	Roots	Rodded	10/22/2010
70	4131	1761-0169	1761-0176	RAWHIDE LN	Roots inside laterals 39' and 190'	Lateral notice will be sent to property owner.	
71	4131	1706-0522	1706-0521	EASEMENT BY DOLORES ST	Obstacles: MH 521	Hydrojet	11/03/2010
72	4131	1706-0403	1706-0264	CARRIAGEDALE DR	Roots; water level (20%)	Hydrojet	10/05/2010
73	4131	1706-0478-A	1706-0479	NEPTUNE AV	Deposits: attached grease	Hydrojet	10/28/2010
74	4131	1706-0447	1706-TRNK	MAIN ST	Alignment down (45%); obstacle (126')	Hydrojet	11/03/2010
75	412R	1761-0313	1761-0314	236TH ST	Water level sag (25%-50%); camera underwater	Hydrojet	10/06/2010
76	412Q	1761-0240	1761-0237	FRIES AV	Deposits: attached grease; roots	Hydrojet	10/04/2010
77	412I	1706-0512	1706-0513	EASEMENT BY MARIBELLA AV	Water level high; camera underwater; corrosion	Hydrojet	10/28/2010
78	412B	1706-0479	1706-TRNK	NEPTUNE AV	Deposits: attached grease; water level sag (25%); alignment down (25%)	Hydrojet	10/28/2010
79	4129	1705-0547	1705-0546	225TH ST	Roots; water sag (35%)	Rodded	10/22/2010
80	4125	1761-0114	1761-0115	MARIBEL AV	Deposits: attached grease; water level (25%)	Hydrojet	10/06/2010
81	4123	1706-0591	1706-0496	PANAMA AV	Water level (40%-50%); camera underwater	Hydrojet	10/28/2010
82	4122	1706-0543	1706-0544	EASEMENT GULF AV	Deposits (asphalt) at 74'	Hydrojet	10/28/2010
83	4122	1706-0636	1706-0635	229TH PL	Roots; deposits: attached grease; water level high	Hydrojet	10/04/2010
84	4122	1761-0142	1761-0188	VAQUERO LN	Roots	Hydrojet	10/06/2010
85	4122	1706-0376	1706-0375	234TH ST	Roots inside lateral	Lateral notice will be sent to property owner.	
86	4121	1706-0388	1706-0273	234TH ST	Roots	Hydrojet	10/05/2010
87	4121	1706-0496	1706-0497	EASEMENTBY SEPULVEDA BV	Water level (40%-50%); camera underwater	Hydrojet	10/28/2010
88	4121	1761-0007	1761-0006	247TH ST	Roots inside lateral	Lateral notice will be sent to property owner.	
89	4121	1761-0303	1761-TRNK	SEPULVEDA BV	Alignment down (25%)	No action needed.	
90	4121	1706-0389	1706-0269	235TH ST	Water level (25%-35%)	Hydrojet	10/07/2010
91	4121	1706-0281	1706-0280	FIGUEROA ST	Roots	Hydrojet	10/07/2010
92	4121	1706-0676	1706-TRNK	FIGUEROA ST	Alignment down (25%)	No action needed.	
93	4121	1706-0292	1706-0670	FIGUEROA ST	Deposits: attached grease; alignment down (45%)	Hydrojet	10/04/2010
94	411D	1706-0422	1706-0421	CARRIAGEDALE DR	Roots	Hydrojet	10/07/2010
95	411A	1761-0252	1706-0638	ALLEY BY E 230TH ST	Roots	Hydrojet	10/06/2010
96	411A	1706-0539	1706-0538	EASEMENT BY MAIN ST	Roots	Hydrojet	10/04/2010
97	4114	1705-0560	1705-0564	EASEMENT by 226TH PL	Roots inside lateral	Lateral notice will be sent to property owner.	
98	4112	1706-0441	1706-0442	MAIN ST	Roots inside lateral	Lateral notice will be sent to property owner.	10/22/2010
99	4111	1706-0511	1706-0667	EASEMENT by REALTY ST	Alignment left down, 35%	No action needed.	11/03/2010
100	4100	1705-0531	1705-0530	223RD ST	Water level (35%-50%); camera underwater	Rodded	10/22/2010
101	4100	1706-0433	1706-0434	MAIN ST	Roots inside lateral: 130'	Lateral notice will be sent to property owner.	
102	4100	1705-0978	1705-TRNK	EASEMENT by FIGUERROA ST	Alignment down (35%)	No action needed.	10/04/2010
103	3F21	1761-0164	1761-0162	PARADISE VALLEY NO.	Deposits: attached grease	Hydrojet	01/21/2011
104	3C00	1761-0149	1761-0148	SCOTTSDALE SOUTH	Water level sag (35%-50%)	Hydrojet	01/28/2011
105	3B00	1706-0331	1706-0327	231ST ST	Water level sag (35%-50%)	Hydrojet	01/28/2011
106	3A23	1705-0618	1705-0619	223RD ST	Water level sag (40%); deposits: attached grease	Hydrojet	01/28/2011
107	3A11	1706-0352	1706-0351	230TH ST	Water level sag (35%-50%)	Hydrojet	01/28/2011
108	3A00	1761-0044	1761-0043	SEPULVEDA BV	Water level sag (40%)	Hydrojet	01/28/2011
109	3922	1706-0500	1706-0516	ALLEY BY SEPULVEDA BL	Deposits: attached grease	Hydrojet	01/28/2011
110	372F	1706-0270	1706-0271	EASEMENT by FIGUERROA ST	Water level sag (25-50%); deposits: attached grease	Hydrojet	01/28/2011
111	3700	1706-0340	1706-0337	231ST ST	Water level sag (40%)	Hydrojet	01/28/2011
112	3700	1706-0435	1706-0381	234TH ST	Water level sag (40%)	Hydrojet	01/28/2011
113	362A	1705-0009	1705-0010	FIGUEROA ST	Deposits	Hydrojet	01/28/2011
114	351A	1705-0558	1705-0557	226TH PL	Roots; water level (50%)	Hydrojet	01/28/2011
115	3429	1761-0164	1761-0139	CENTRAL PARK NORTH	Deposits: attached grease; water level sag (25%)	Rodded	01/21/2011
116	3421	1706-0310	1706-0309	EASEMENTby 229th ST	Roots	Hydrojet	01/24/2011
117	3421	1706-0423	1706-0424	FRIGATE AV	Roots inside lateral: 153'	Lateral notice will be sent to property owner.	
118	3421	1706-0271A	1706-0271	FIGUERROA ST	Water level sag (25-50%); deposits: attached grease	Hydrojet	02/22/2011
119	341I	1706-0503	1706-0504	EASEMENT by REALTY ST	Roots inside lateral: 77'	Lateral notice will be sent to property owner.	
120	332G	1705-0530	1705-0529	223RD ST	Water level sag (25-50%)	Rodded	02/22/2011
121	3325	1761-0113	1761-0114	MARIBEL AV	Deposits: attached grease	Rodded	01/24/2011
122	331J	1761-0140	1761-0190	YELLOW BOOT LN	Roots	Hydrojet	01/24/2011
123	331A	1706-0416	1706-0415	CARRIAGEDALE DR	Roots inside lateral: 183'	Lateral notice will be sent to property owner.	
124	3318	1761-0105	1706-0602	237TH ST	Roots inside laterals: 158',216' and 271'	Lateral notice will be sent to property owner.	
125	3318	1706-0580	1706-0579	229TH ST	Water level (sag); deposits: attached grease	Hydrojet	01/21/2011
126	3315	1705-0575	1705-0574	EASEMENT by NICOLLE AV	Roots inside laterals: 111',165' and 232'	Lateral notice will be sent to property owner.	
127	322C	1761-0162	1761-0163	PARADISE VALLEY NO.	Roots inside laterals: 30' and 193'	Lateral notice will be sent to property owner.	
128	3225	1705-0548	1705-0547	225TH ST	Roots inside lateral: 93'	Lateral notice will be sent to property owner.	
129	3224	1706-0526	1706-0663	EASEMENT by ENOLA AV	Roots; deposits: attached grease	Rodded	02/22/2011
130	3224	1761-0283	1761-0282	GOLD DUST LN	Roots inside laterals: 32',149' and 151'	Lateral notice will be sent to property owner.	
131	3223	1761-0109	1761-0108	EASEMENT by IDABELLA AV	Roots; deposits: attached grease	Hydrojet	01/24/2011
132	3223	1761-0139	1761-0191	ZUNI LN	Deposit: attached grease	Hydrojet	01/24/2011

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
133	3222	1705-0592	1705-0593	228TH ST	Infiltration dripper: 45'; deposits: attached grease	Hydrojet	01/24/2011
134	3221	1761-0106	1761-0105	PACIFIC ST	Roots; deposits: attached grease	Hydrojet	01/31/2011
135	3221	1761-0161	1761-0163	PARADISE VALLEY NO.	Roots	Hydrojet	01/31/2011
136	3221	1706-0275	1706-0274	CAROLDALE AV	Water level: sag (40-50%)	Hydrojet	01/31/2011
137	3221	1706-0271A	1706-0272	FIGUERROA ST	Roots inside laterals: 38' and 62'	Lateral notice will be sent to property owner.	
138	321B	1705-0543	1705-0544	224TH PL	Roots inside lateral: 142'	Lateral notice will be sent to property owner.	
139	321A	1705-0020	1705-0021	224TH ST	Roots	Hydrojet	01/31/2011
140	321A	1706-0421	1706-0416	CARRIAGEDALE DR	Roots in lateral: 218'	Lateral notice will be sent to property owner.	
141	321A	1706-0256	1706-0257	ORCHARD AV	Roots inside lateral: 283'	Lateral notice will be sent to property owner.	
142	3219	1706-0564	1706-0565	232ND PL	Roots inside lateral: 154'	Lateral notice will be sent to property owner.	
143	3219	1705-1058	1705-0554	226TH PL	Roots	Hydrojet	01/31/2011
144	3216	1706-0634	1706-0635	GRACE AV	Deposits: attached grease; roots	Hydrojet	01/21/2011
145	3216	1761-0280	1761-0281	HICKOCK LN	Roots	Hydrojet	01/31/2011
146	3215	1705-0523	1705-0522	227TH ST	Roots	Hydrojet	01/31/2011
147	3215	1705-0607	1705-0022	224TH ST	Water level (25%)	Hydrojet	01/31/2011
148	3215	1761-0279	1761-0278	HORSESHOE LN	Roots in lateral: 34'	Lateral notice will be sent to property owner.	
149	3214	1706-0361	1706-0362	232ND ST	Roots	Hydrojet	01/21/2011
150	3213	1706-0364	1706-0365	232ND PL	Roots inside lateral: 247'	Lateral notice will be sent to property owner.	
151	3213	1705-0603A	1705-0604	MONETA AV	Roots	Hydrojet	01/21/2011
152	3212	1706-0415	1706-0414	NICOLLE AV	Roots inside lateral: 183'	Lateral notice will be sent to property owner.	
153	3211	1761-0063	1761-0062	PACIFIC ST	Water level sag (25%); deposits: attached grease	Hydrojet	01/31/2011
154	312Z	1761-0036	1761-0062	PACIFIC ST	Deposits: attached grease; water level sag (25%); roots	Hydrojet	01/24/2011
155	312I	1761-0312	1761-0313	236TH ST	Tap break in intruding: 112'; water level sag (25%)	Rodded	02/11/2011
156	312I	1761-0175	1761-0181	MILLWARD LN	Deposits: attached grease; roots	Hydrojet	01/24/2011
157	312A	1761-0247	1761-0246	MARINE AV	Deposits: attached grease	Hydrojet	01/24/2011
158	312A	1706-0341	1706-0342	FRIGATE AV	Deposits: attached grease; encrustation	Hydrojet	01/31/2011
159	3127	1706-0355	1706-0356	229TH ST	Infiltration dripper: inside MH 1706-0356	Hydrojet	01/31/2011
160	3126	1706-0602	1706-0595	PANAMA AV	Deposits: attached grease; water level high; roots	Hydrojet	01/21/2011
161	3125	1706-0651	1706-0654	EASEMENT by 232ND ST	Deposits: attached grease; water level high; roots	Hydrojet	01/21/2011
162	3125	1761-0114	1706-0607	234TH ST	Deposits: attached grease; water level high	Rodded	02/11/2011
163	3123	1706-0629	1706-0630	CATSKILL AV	Deposits: attached grease; roots	Rodded	02/22/2011
164	3123	1761-0193	1761-0192	SQUAW PEAK LN	Roots	Hydrojet	01/31/2011
165	3123	1761-0036	1761-0049-A	PACIFIC ST	Deposits: attached grease; roots	Hydrojet	02/22/2011
166	3122	1706-0497	1706-0491	EASEMENT by LINCOLN ST	Deposits: attached grease; water level (40%)	Hydrojet	01/24/2011
167	3122	1761-0251	1706-0635	229TH PL	Deposits: attached grease	Rodded	01/31/2011
168	3122	1706-0535	1706-0536	EASEMENT by SEPULVEDA BV	Roots inside laterals: 46' and 140'	Lateral notice will be sent to property owner.	
169	3122	1761-0158	1761-0284	GERONIMO LN	Roots inside laterals: 190' and 229'	Lateral notice will be sent to property owner.	
170	3122	1706-0280	1706-0279	FIGUERROA ST	Roots inside lateral: 109'	Lateral notice will be sent to property owner.	
171	3121	1761-0239	1761-0240	FRIES AV	Roots inside lateral: 123'	Lateral notice will be sent to property owner.	
172	3121	1706-0453	1706-0454	MARBELLA AV	Deposits: attached grease inside lateral: 119'	Lateral notice will be sent to property owner.	
173	3121	1706-0550	1706-0586	ALLEY BY 235TH ST	Roots	Hydrojet	01/31/2011
174	3121	1706-0585	1706-0584	ALLEY BY 229TH ST	Roots inside lateral: 63'	Lateral notice will be sent to property owner.	
175	3121	1706-0536	1706-0537	EASEMENT by GULF AV	Deposits: attached grease; roots; intruding tap break-in: 49'	Rodded	01/21/2011
176	3121	1705-0551	1705-0552	226TH ST	Roots inside lateral: 85'	Lateral notice will be sent to property owner	
177	3121	1706-0337	1706-0334	231ST ST	Infiltration dripper: near MH 337; deposits: attached grease	Hydrojet	01/21/2011
178	3121	1705-1072	1705-0004	228TH ST	Roots inside lateral: 94'	Lateral notice will be sent to property owner.	
179	3121	1761-0135	1761-0286	STAGECOACH LN	Roots inside lateral: 65'	Lateral notice will be sent to property owner.	
180	3121	1761-0046	1761-0047	LINCOLN ST	Roots inside lateral: 208'	Lateral notice will be sent to property owner.	
181	3121	1706-0449	1706-0674	MAIN ST	Surface corrosion (metal pipe); Obstacle: external pipe inside MH 674	Hydrojet	02/22/2011
182	311K	1705-0542	1705-0543	224TH PL	Roots inside lateral: 207'	Lateral notice will be sent to property owner.	
183	311E	1706-0574	1706-0573	230TH ST	Roots	Hydrojet	01/21/2011
184	311E	1761-0154	1761-0153	SCOTTSDALE SOUTH	Roots	Hydrojet	01/24/2011
185	311E	1706-0510	1706-0512	EASEMENT by REALTY ST	Roots inside lateral: 98'	Lateral notice will be sent to property owner.	
186	311C	1761-0106	1761-0107	237TH ST	Roots	Hydrojet	01/21/2011
187	311B	1706-0380	1706-0381	234TH ST	Roots inside lateral: 83'	Lateral notice will be sent to property owner.	
188	311B	1705-0596	1706-0312	CAROLDALE AV	Roots	Hydrojet	01/31/2011
189	311A	1706-0383	1706-0382	234TH PL	Obstacles; roots; water level high	Rodded	01/21/2011
190	311A	1706-0628	1706-0627	CATSKILL AV	Roots	Hydrojet	01/21/2011
191	311A	1706-0639	1706-0646	EASEMENT by 230TH ST	Roots inside lateral: 113'	Lateral notice will be sent to property owner.	
192	311A	1761-0116	1761-0115	MARIBEL AV	Roots inside lateral: 108'	Lateral notice will be sent to property owner.	
193	311A	1706-0564	1706-0563	232ND PL	Roots	Hydrojet	01/28/2011
194	311A	1706-0312	1706-0313	CAROLDALE AV	Roots	Hydrojet	01/28/2011
195	3119	1706-0381	1706-0382	MEHDEN AV	Water level (30%-35%)	Hydrojet	01/28/2011
196	3118	1706-0360	1706-0275	232ND ST	Roots	Hydrojet	01/28/2011
197	3118	1705-0021	1705-0022	224TH ST	Roots inside lateral: 230'	Lateral notice will be sent to property owner.	

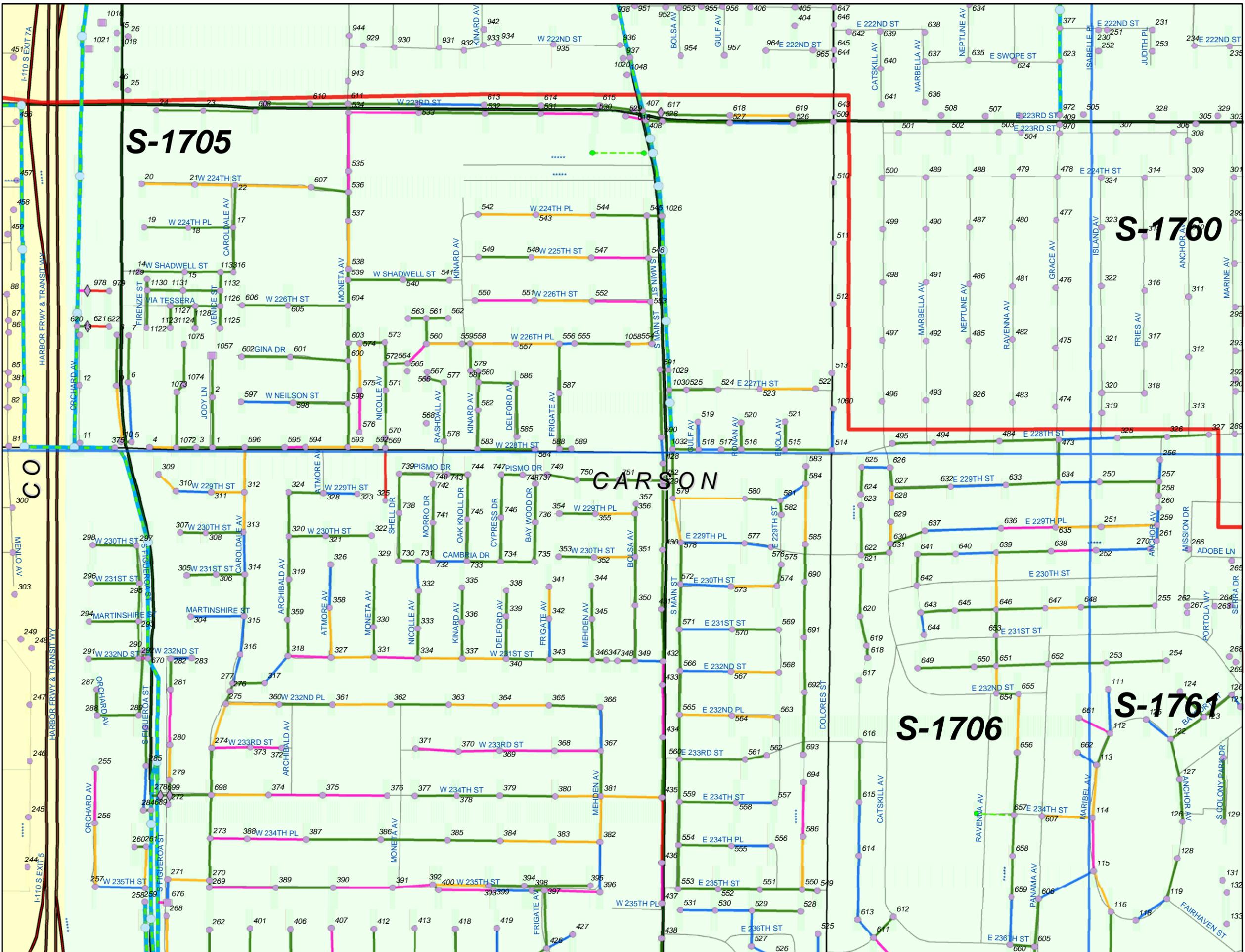
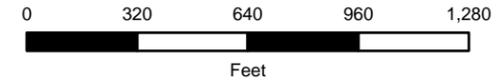
ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken	Completed Date
198	3117	1761-0102	1761-0103	238TH ST	Roots	Hydrojet	01/28/2011
199	3117	1705-0560	1705-0559	226TH PL	Roots	Hydrojet	01/28/2011
200	3117	1706-0363	1706-0364	232ND PL	Roots inside lateral: 15'	Lateral notice will be sent to property owner.	
201	3116	1761-0251	1761-0259	229TH PL	Roots	Hydrojet	01/28/2011
202	3114	1706-0567	1706-0568	232ND ST	Roots inside lateral: 287'	Lateral notice will be sent to property owner.	
203	3114	1761-0049-A	1761-0049	PACIFIC ST	Roots	Hydrojet	01/28/2011
204	3114	1761-0143	1761-0145	SCOTTSDALE NORTH	Obstacle built in to structure inside MH 0143 (gas trap)	Hydrojet	01/24/2011
205	3113	1706-0384	1706-0383	234TH PL	Roots	Rodded	01/28/2011
206	3113	1706-0655	1706-0656	ALLEY BY 232ND ST	Water level (30%-55%)	Hydrojet	01/28/2011
207	3113	1761-0072	1761-0071	DELORAS DR	Roots	Hydrojet	01/28/2011
208	3113	1706-0311	1706-0312	229TH ST	Roots	Hydrojet	01/28/2011
209	3113	1706-0392	1706-0393	235TH ST	Roots inside lateral: 185'	Lateral notice will be sent to property owner.	
210	3112	1706-0647	1706-0648	ALLEY BY 231ST ST	Roots inside lateral: 279'	Lateral notice will be sent to property owner.	
211	3112	1706-0374	1706-0698	234TH ST	Roots inside lateral: 117'	Lateral notice will be sent to property owner.	
212	3112	1761-0199	1761-0272	CAMELBACK SOUTH	Roots inside lateral: 143'	Lateral notice will be sent to property owner.	
213	3111	1706-0498	1706-0495	EASEMENT BY SEPULVEDA BV	Deposits: attached grease	Hydrojet	01/28/2011
214	3111	1761-0054	1761-0053	REALTY ST	Roots	Rodded	01/28/2011
215	3111	1761-0055	1761-0054	REALTY ST	Obstacles: MH 54	Hydrojet	01/28/2011
216	3111	1705-0557	1705-0556	226TH PL	Roots inside lateral: 12'	Lateral notice will be sent to property owner.	
217	3111	1705-0538	1705-0537	MONETA AV	Roots inside lateral: 8'	Lateral notice will be sent to property owner.	
218	3111	1706-0410	1706-0409	CARRIAGEDALE DR	Roots inside lateral: 205'	Lateral notice will be sent to property owner.	
219	3100	1706-0482	1706-0483	EASEMENT BY ISLAND AV	Water level (25%); deposits: attached grease	Rodded	01/28/2011
220	3100	1706-0578	1706-0579	MAIN ST	Water level (25%); deposits: attached encrustation	Rodded	02/22/2011
221	3100	1761-0100	1761-0098	AVALON BV	Obstacles (construction debris): near MH 100	Hydrojet	02/22/2011
222	3100	1706-0358	1706-0327	ATMORE AV	Deposits: attached encrustation	Rodded	02/22/2011
223	3100	1705-0594	1705-0593	228TH ST	Roots inside lateral: 256'	Lateral notice will be sent to property owner.	
224	3100	1706-0268	1706-0267	FIGUERROA ST	Roots inside lateral: 93'	Lateral notice will be sent to property owner.	
225	3100	1706-0267	1706-0265	FIGUERROA ST	Deposits: attached encrustation; 260'; water level high: 225'-260'	Rodded	02/22/2011
226	3100	1706-0258	1706-0261	FIGUERROA ST	Obstacles (construction debris): inside MH 258	Rodded	02/22/2011

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

QUICK MAINTENANCE RATING (QMR)



Legend

- SMD Sanitary Sewers**
 - 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION
- SMD Manholes**
 - Other
- Manhole Type**
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Stations
 - SMD Treatment Plants
- Maintained by Others:**
 - Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Trunk Mh
 - Non SMD Maintained MH
 - Parcel Boundary
 - SMD Operations Maps
 - Y0TV0809D

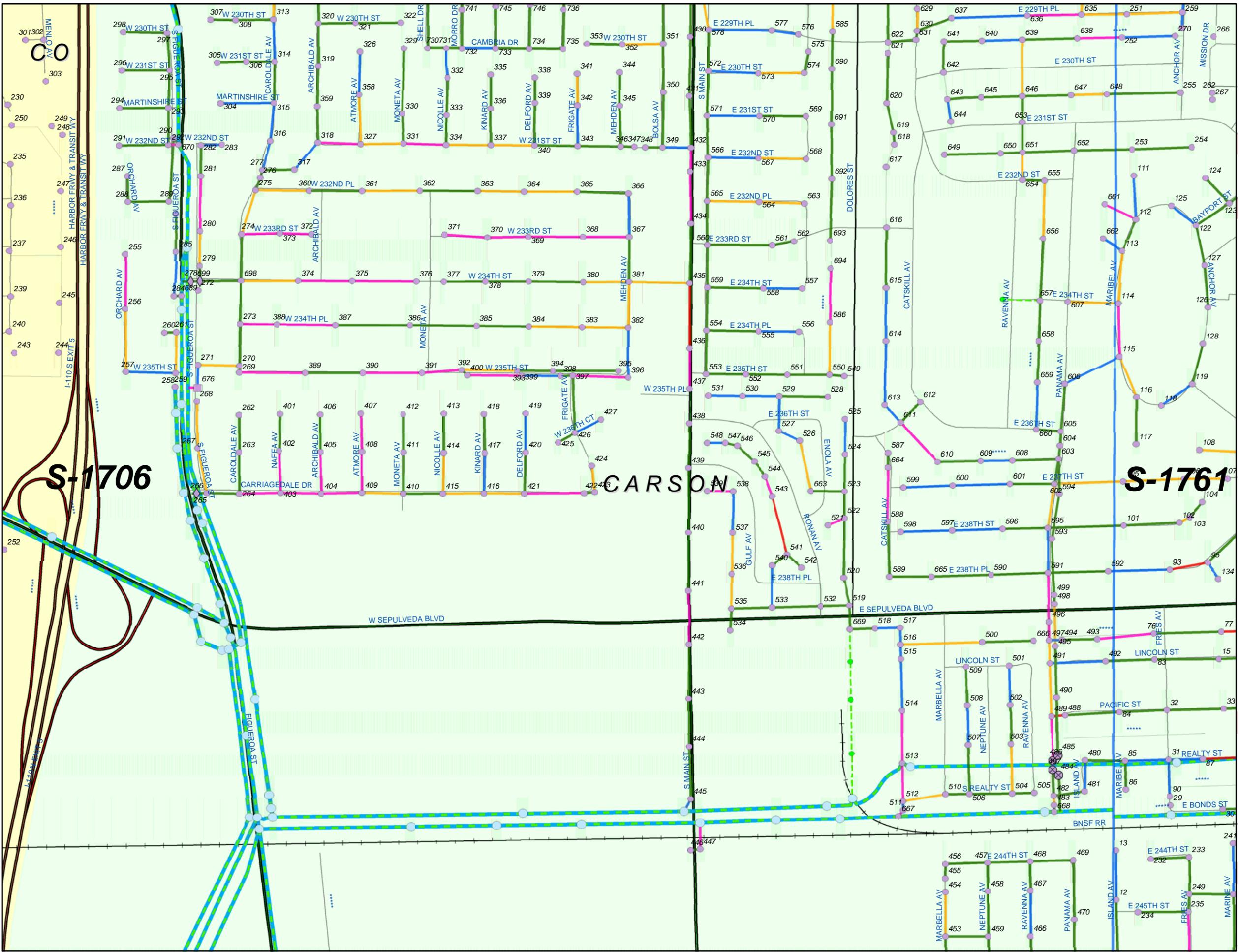
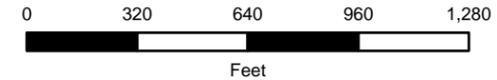
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MARCH 2011

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

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

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

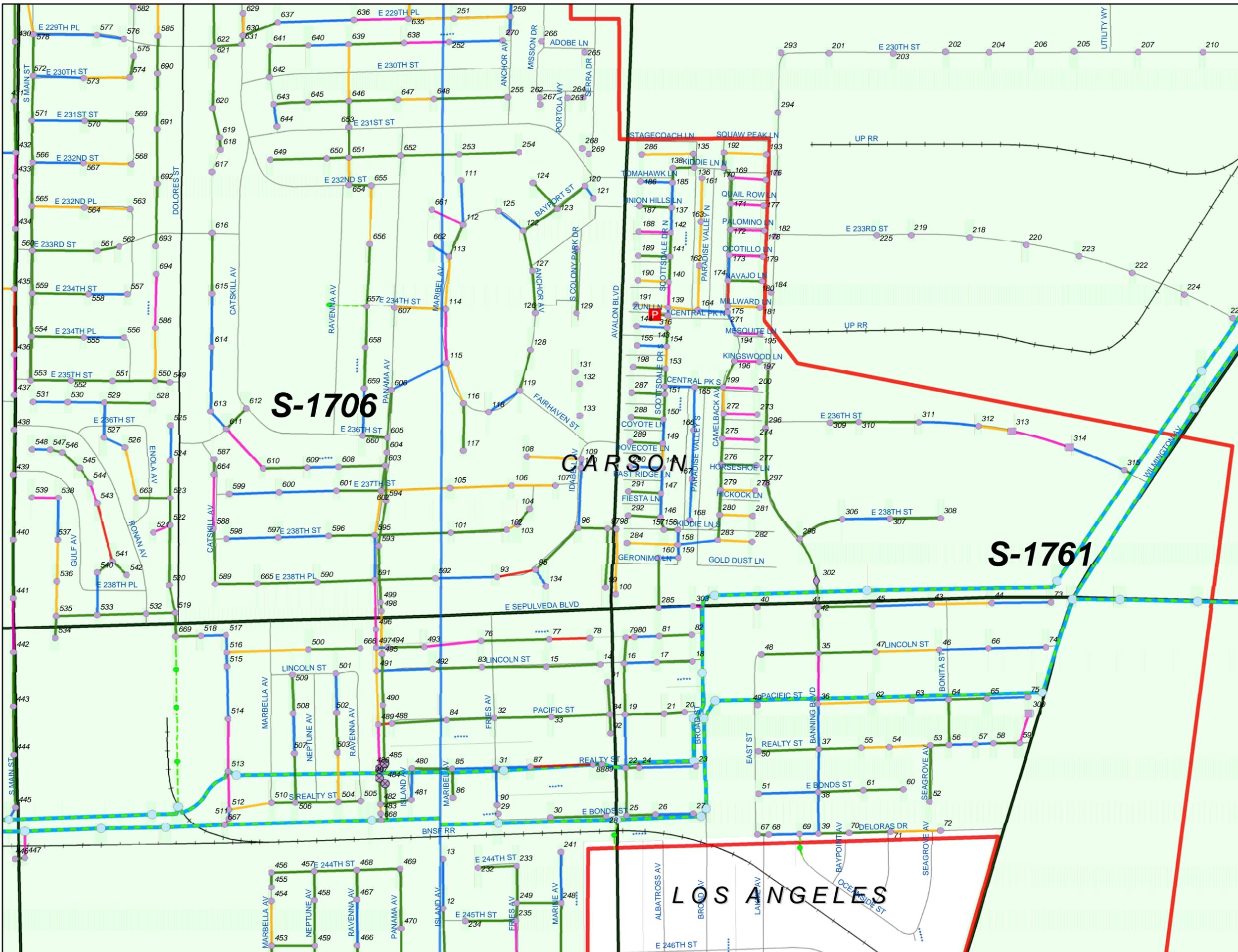
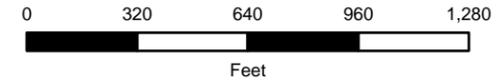
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MARCH 2011

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

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

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011

ENCLOSURE 2
HIGH WATER LEVELS
CITY OF CARSON (YOTV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	WATER LEVEL: LOCATION	CORRECTIVE ACTION	COMPLETED DATE
1	4C00	1761-0002	1761-0301	ISLAND AV	Water level sag; camera underwater	(50%-100%): 135'-150'	Hydrojet	10/18/2010
2	4C00	1705-0595	1705-0594	228TH ST	Camera underwater	(100%): 129'	Rodded	10/22/2010
3	4A3A	1706-0431	1706-0432	MAIN ST	Water level sag; camera underwater	(50%-100%): 270'-320'	Hydrojet	10/13/2010
4	423J	1706-0327	1706-0318	231ST ST	Water level high; camera underwater	(50%-100%): 38'-240'	Hydrojet	10/13/2010
5	423D	1705-0529	1705-0408	223RD ST	Water level high; camera underwater (upstream of trunk line)	(50%-100%): 0'-96'	Rodded	10/22/2010
6	4211	1706-0432	1706-0433	MAIN ST	Water level sag; camera underwater	(80%-100%): 0'-23'	Rodded	10/22/2010
7	413D	1706-0334	1706-0331	231ST ST	Water level sag; camera underwater	(50%-100%): 90'-235'	Rodded	10/22/2010
8	4135	1761-0300	1761-0059	WILMINGTON AV	Water level sag; camera underwater	(50%-100%): 125'-145'	Hydrojet	10/18/2010
9	4134	1705-0533	1705-0534	223RD ST	Water level sag; camera underwater	(50%-100%): 6'-22'	Rodded	10/15/2010
10	412R	1761-0313	1761-0314	236TH ST	Water level sag; camera underwater	(50%-100%): 300'-350'	Hydrojet	10/06/2010
11	4123	1706-0591	1706-0496	PANAMA AV	Water level sag; camera underwater	(50%-100%): 170'-220'	Hydrojet	10/28/2010
12	4121	1706-0496	1706-0497	EASEMENT	Water level high; camera underwater	(50%-100%): 70'-315'	Hydrojet	10/28/2010
13	4100	1705-0531	1705-0530	223RD ST	Water level sag; camera underwater (upstream of trunk line)	(50%-100%): 150'-305'	Rodded	10/22/2010
14	3C00	1761-0149	1761-0148	SCOTTSDALE SOUTH	Water level (sag)	(35%-50%): 70'-145'	Hydrojet	01/28/2011
15	3B00	1706-0331	1706-0327	231ST ST	Water level (sag)	(35%-50%): 126'-250'	Hydrojet	01/28/2011
16	3A11	1706-0352	1706-0351	230TH ST	Water level (sag)	(35%-50%): 168'-215'	Hydrojet	01/28/2011
17	3A00	1761-0044	1761-0043	SEPULVEDA BV	Water level (sag)	(40%): 299'-353'	Hydrojet	01/28/2011
18	3700	1706-0340	1706-0337	231ST ST	Water level (sag)	(40%): 228'-256'	Hydrojet	01/28/2011
19	3700	1706-0435	1706-0381	234TH ST	Water level (sag)	(40%): 302'-334'	Hydrojet	01/28/2011
20	3421	1706-0271A	1706-0271	FIGUERROA ST	Water level (sag)	(25%-50%): 280'-294'	Hydrojet	01/29/2011
21	332G	1705-0530	1705-0529	223RD ST	Water level (upstream of trunk line)	(25%-50%): 30'-318'	Rodded	02/22/2011
22	3221	1706-0275	1706-0274	CAROLDALE AV	Water level (sag)	(40%-50%): 40'-180'	Hydrojet	01/31/2011
23	3113	1706-0655	1706-0656	ALLEY BY 232ND ST	Water level (sag)	(30%-55%): 250'-353'	Hydrojet	01/28/2011

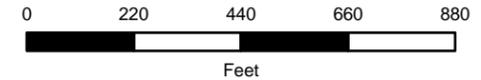
ENCLOSURE 2
INFILTRATION
CITY OF CARSON (Y0TV0809D)
as of 07/08/09

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Corrective Action Taken
1	5111	1761-0024	1761-TRNK	REALTY ST	Infil Gusher 11'	No action needed.
2	3222	1705-0592	1705-0593	228TH ST	Infil Dripper 45' and 134'	No action needed.
3	3127	1706-0355	1706-0356	229TH ST	Infil Dripper inside MH 1706-0356	No action needed.
4	3121	1706-0337	1706-0334	231ST ST	Infil Dripper 0.1'	No action needed.

ENCLOSURE 2 CCTV PROJECT Y0TV0809D

Supervisorial District 2
City of Carson

HIGH WATER LEVEL

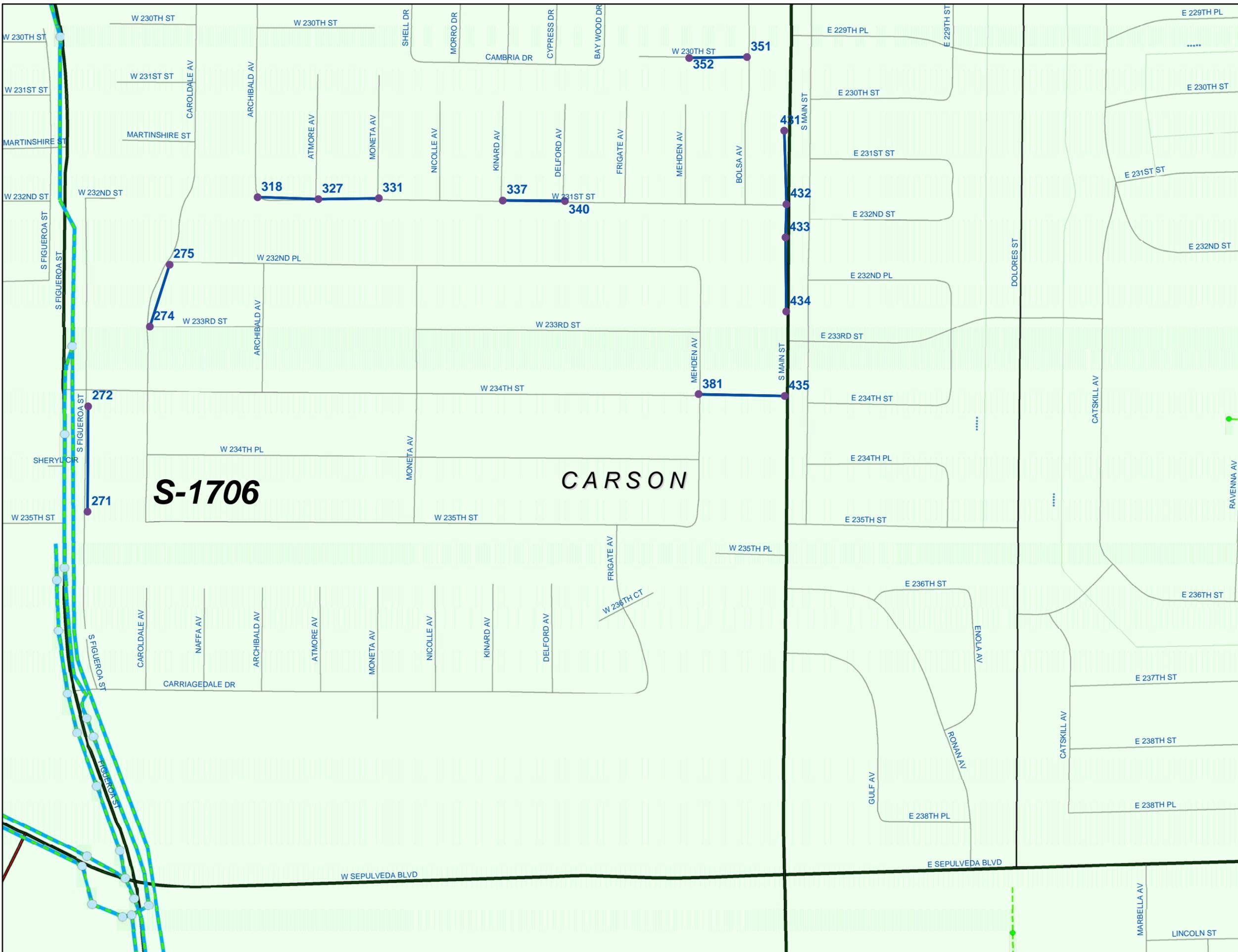


Legend

- High Water Level
- SMD Manholes
- SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

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MARCH 2011



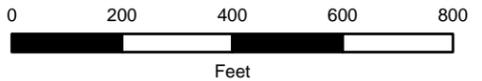
ENCLOSURE 2

CCTV PROJECT

Y0TV0809D

Supervisorial District 2
City of Carson

INFILTRATION

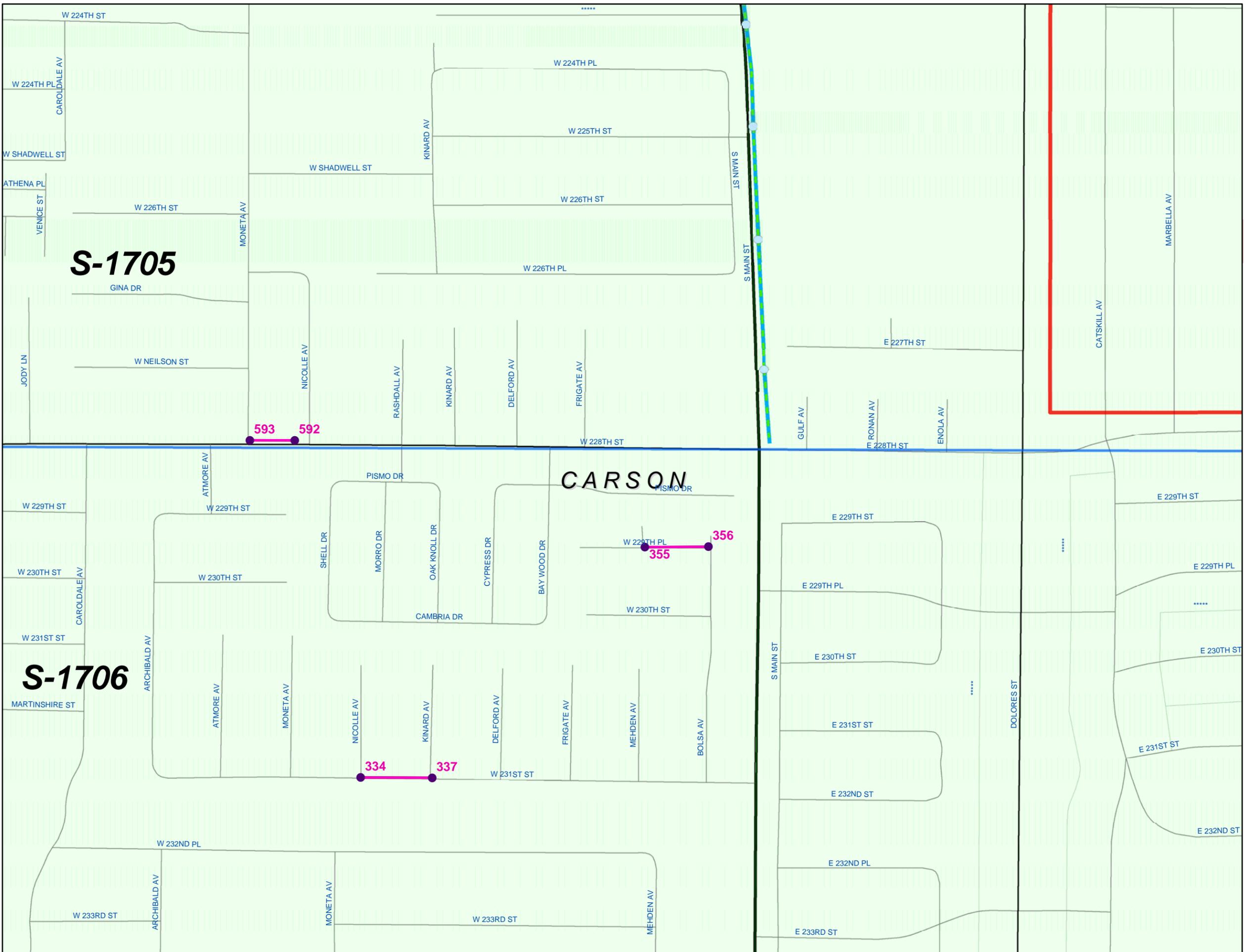


Legend

- Infiltration
- SMD Manholes
- SMD Pump Satations
- SMD Treatment Plants
- Maintained by Others:
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
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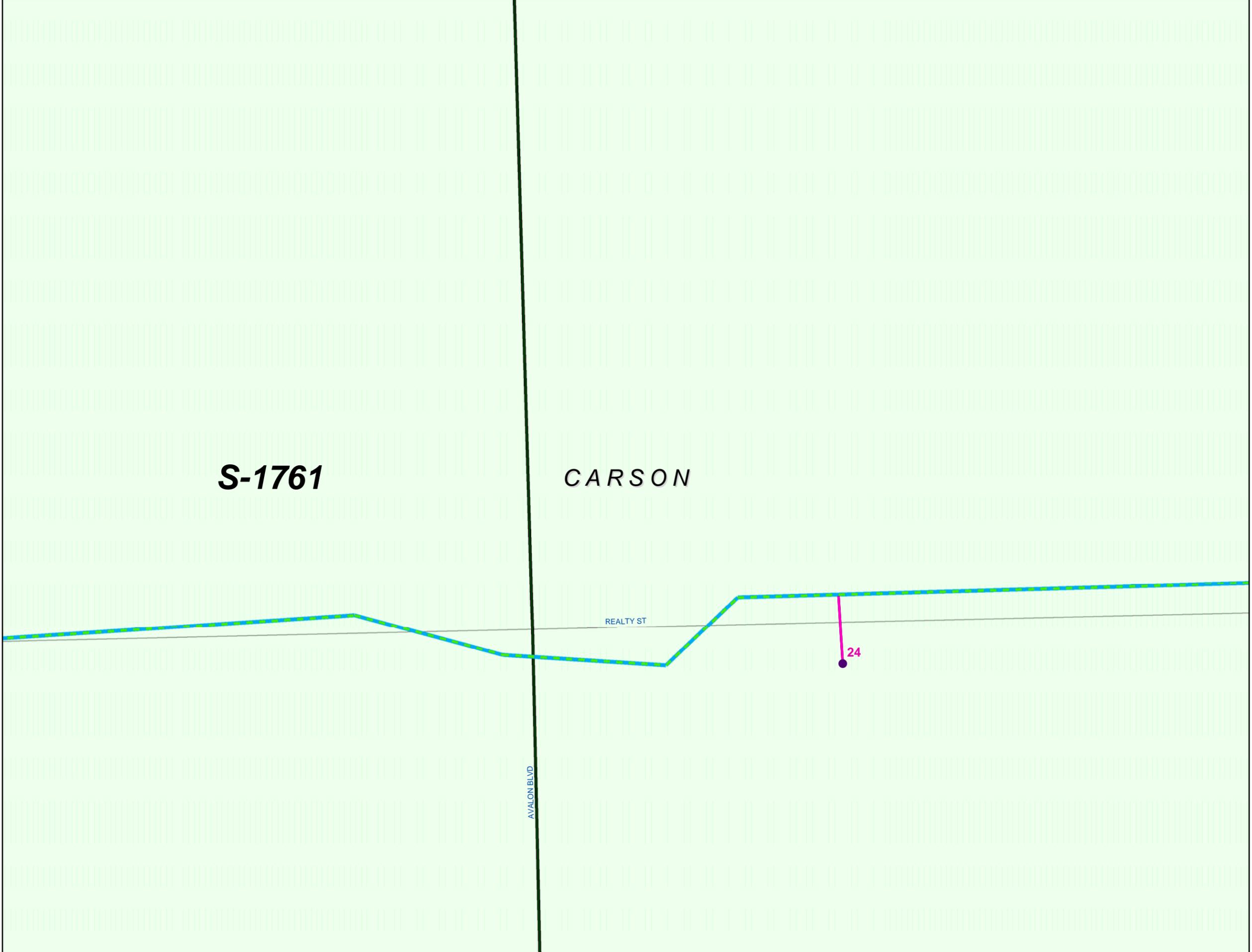
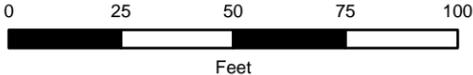
ENCLOSURE 2

CCTV PROJECT

Y0TV0809D

Supervisory District 2
City of Carson

INFILTRATION



Legend

- Infiltration
- SMD Manholes
- SMD Pump Satations
- SMD Treatment Plants
- Maintained by Others:**
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GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 19, 2010

Current Property Owner
3476 Marengo Ave
Altadena, CA 91001

Dear Property Owner:

SEWER LATERAL ROOT INTRUSION 3476 MARENGO AVE, ALTADENA, CALIFORNIA 91001

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this letter informing you that the sewer lateral serving the property located at 3476 Marengo Ave, Altadena, California 91001, requires maintenance and is in violation of **County Code 20.24.080 Maintenance of Sewer Laterals**, which states:

"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner
August 19, 2010
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup. Failure to do so may result in future overflows and subject you to civil prosecution, reimbursement costs, and fines up to \$1,000. Reference 20.24.160 Violation - Penalty; 20.24.170 Continued violations; 20.32.690 Reimbursement for repairs and maintenance following violations.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at (626) 446-5227 to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillalun@dpw.lacounty.gov.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:

Enc.

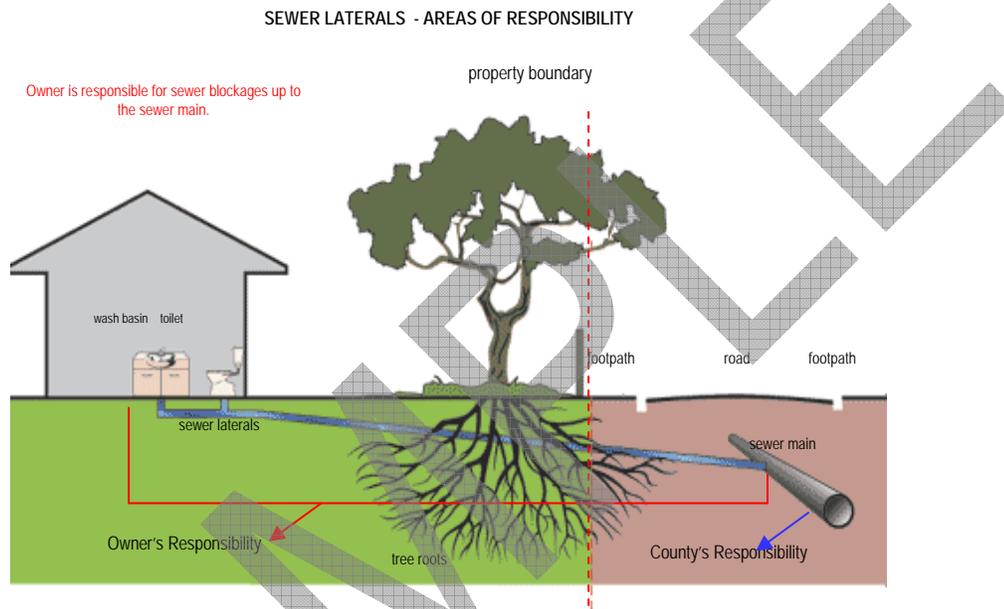
bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

3476 MARENGO AVE
ALTADENA
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes that portion that may be located within the public right of way (under the asphalt and street landscaping).



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

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

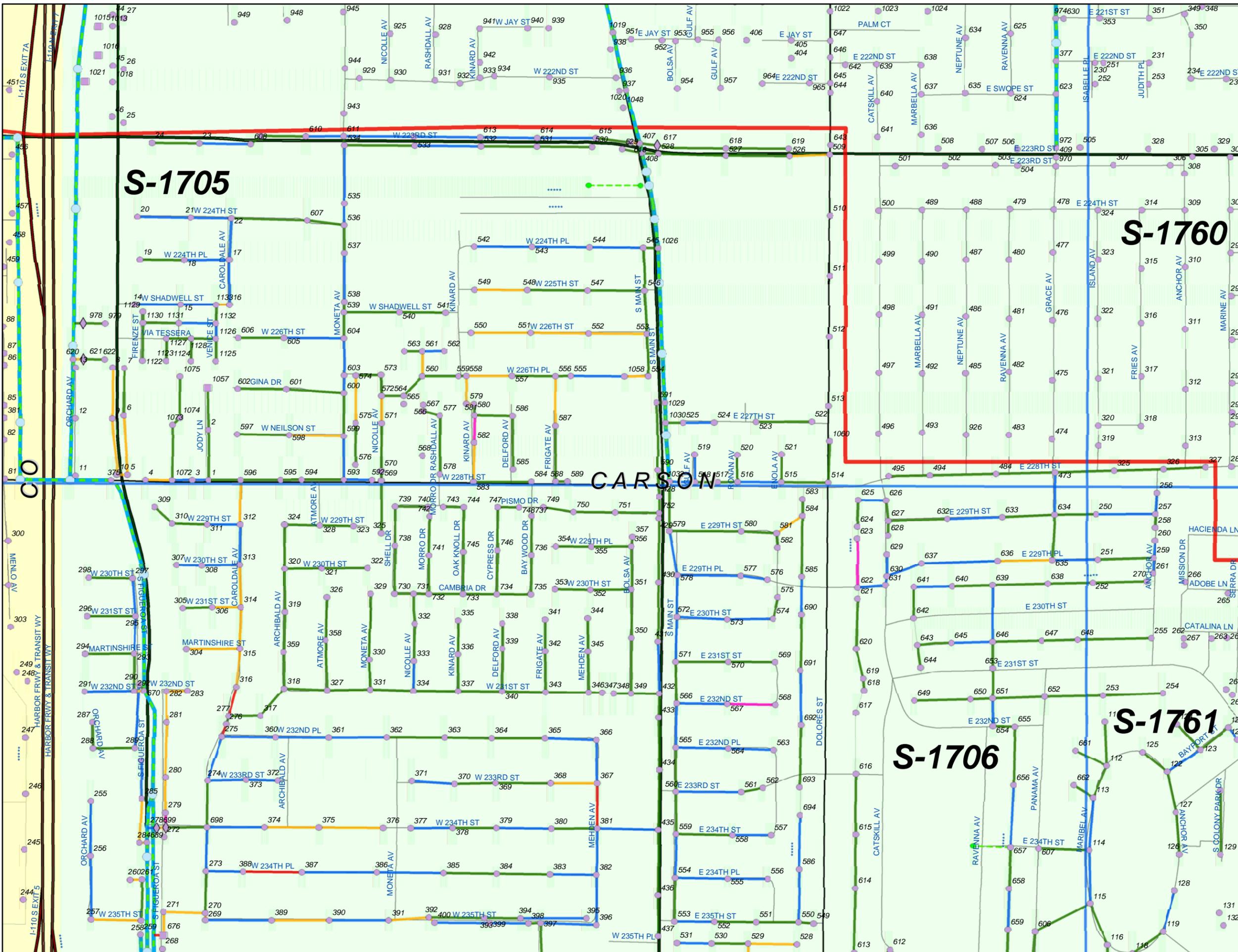
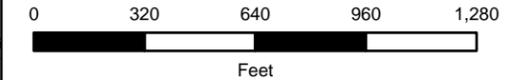
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0809D)
as of 07/10/09

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5242	1706-0503	1706-0504	EASEMENT BY REALTY ST	Broken (visible concrete patch): 127'	Lining: MH to MH	287
2	5223	1761-0102	1761-0103	238TH ST	Broken/deformed: 76'	Point Repair	
3	5142	1706-0676	1706-TRNK	FIGUEROA ST	Broken (visible concrete patch): 47'	Lining: MH to MH	58
4	5142	1706-0539	1706-0538	EASEMENT BY MAIN ST	Broken/ deformed: 148'	Lining: MH to MH	151
5	5141	1761-0074	1761-0066	LINCOLN ST	Broken: 297', 310'; cracks: 305'	Lining: MH to MH	345
6	513Z	1706-0500	1706-0516	ALLEY BY SEPULVEDA BL	Hole with visible void: 121', cracks: multiple locations	Lining: MH to MH	354
7	513A	1761-0045	1761-0041	SEPULVEDA BV	Broken: 183'; fracture: 53'	Lining: MH to MH	348
8	5131	1761-0310	1761-0311	236TH ST	Broken 248'; fractures: 71'	Lining: MH to MH	353
9	5124	1706-0367	1706-0381	MEHDEN AV	Broken (visible concrete patch): 209'	Structural integrity in tact. No action needed.	
10	5122	1706-0388	1706-0387	234TH PL	Broken: 272'	Point Repair	
11	5122	1706-0316	1706-0277	CAROLDALE AV	Broken (visible concrete patch): 45'	Structural integrity in tact. No action needed.	
12	5121	1761-0077	1761-0078	ALLEY BY AVALON BL	Broken (visible concrete patch): 298'	Lining: MH to MH	334
13	511H	1706-0481	1706-0482	EASEMENT BY ISLAND AV	Broken: 139'; cracks: multiple locations	Lining: MH to MH	161
14	5111	1706-0472	1761-0010	EASEMENT BY PANAMA AV	Hole (visible concrete patch): 39'	Structural integrity in tact. No action needed.	
15	5111	1706-0271A	1706-0272	FIGUERROA ST	Broken/deformed: 115'	Point Repair	
16	5100	1706-0453	1706-0454	MARBELLA AV	Broken with visible soil: 161'	Point Repair	
17	5100	1706-0276	1706-0275	CAROLDALE AV	Broken with soil visible: 1'	Emergency Repair by Yard (Completed 06/11/09)	
18	413L	1706-0537	1706-0538	EASEMENT BY MAIN ST	Broken: 237'; cracks: multiple locations	Lining: MH to MH	240
19	413J	1706-0504	1706-0506	REALTY ST	Broken: 159'; cracks: multiple locations	Lining: MH to MH	260
20	413G	1706-0535	1706-0536	EASEMENT SEPULVEDA BL	Fractures: : 77'; cracks: multiple locations	Lining: MH to MH	221
21	4131	1706-0279	1706-0278	FIGUERROA ST	Fractures and cracks: multiple locations	Lining: MH to MH	87
22	4121	1706-0622	1706-0623	ALLEY BY 229TH PL	Fracture: 144'	Structural integrity in tact. No action needed.	
23	4121	1706-0567	1706-0568	232ND ST	Broken with gasket visible: 28'	Structural integrity in tact. No action needed.	
24	4121	1705-0582	1705-0581	KINARD AV	Fractures: 125'	Structural integrity in tact. No action needed.	

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

- Other
- Manhole Type
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations

WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0809D

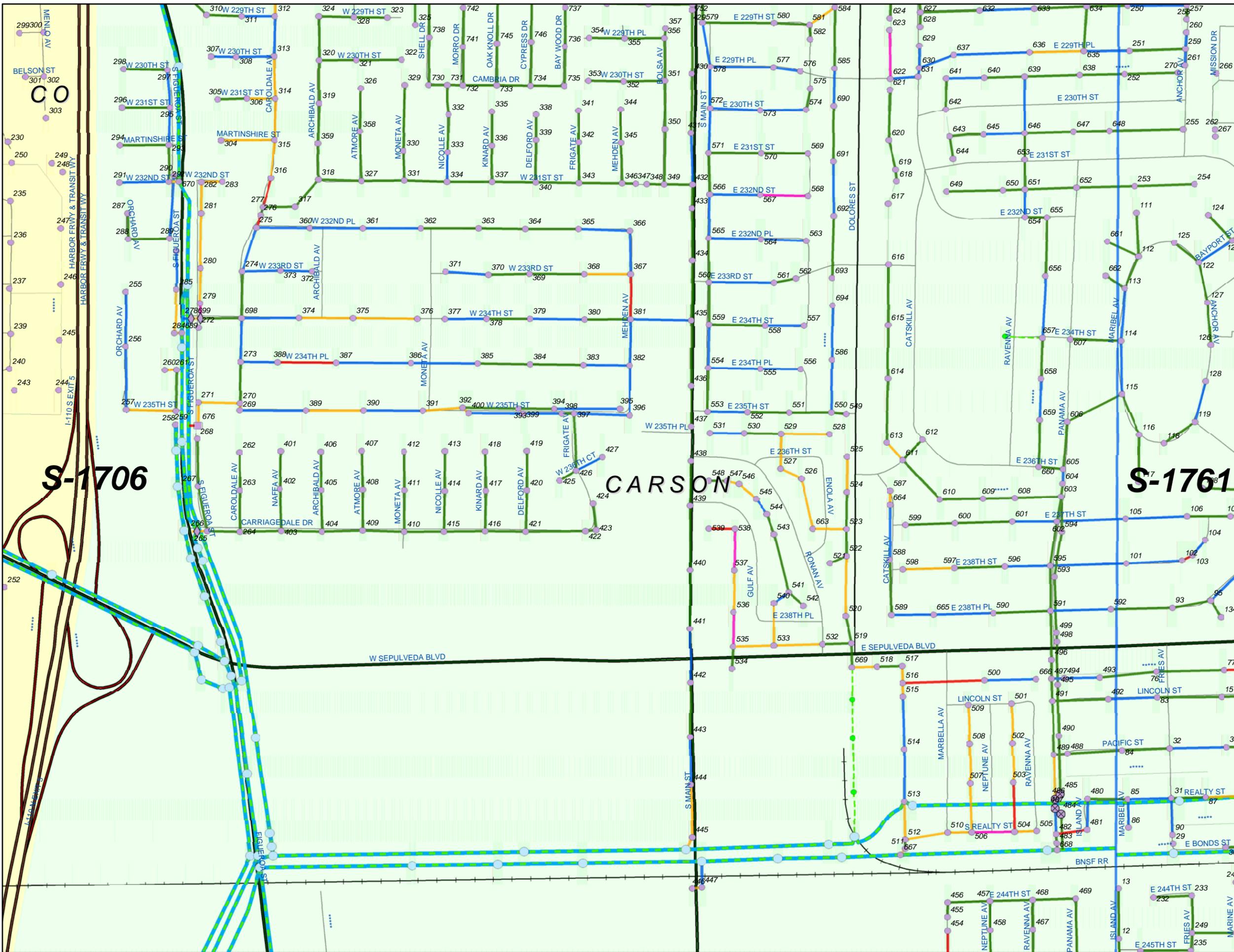
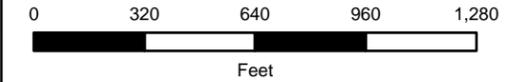
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MARCH 2011

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

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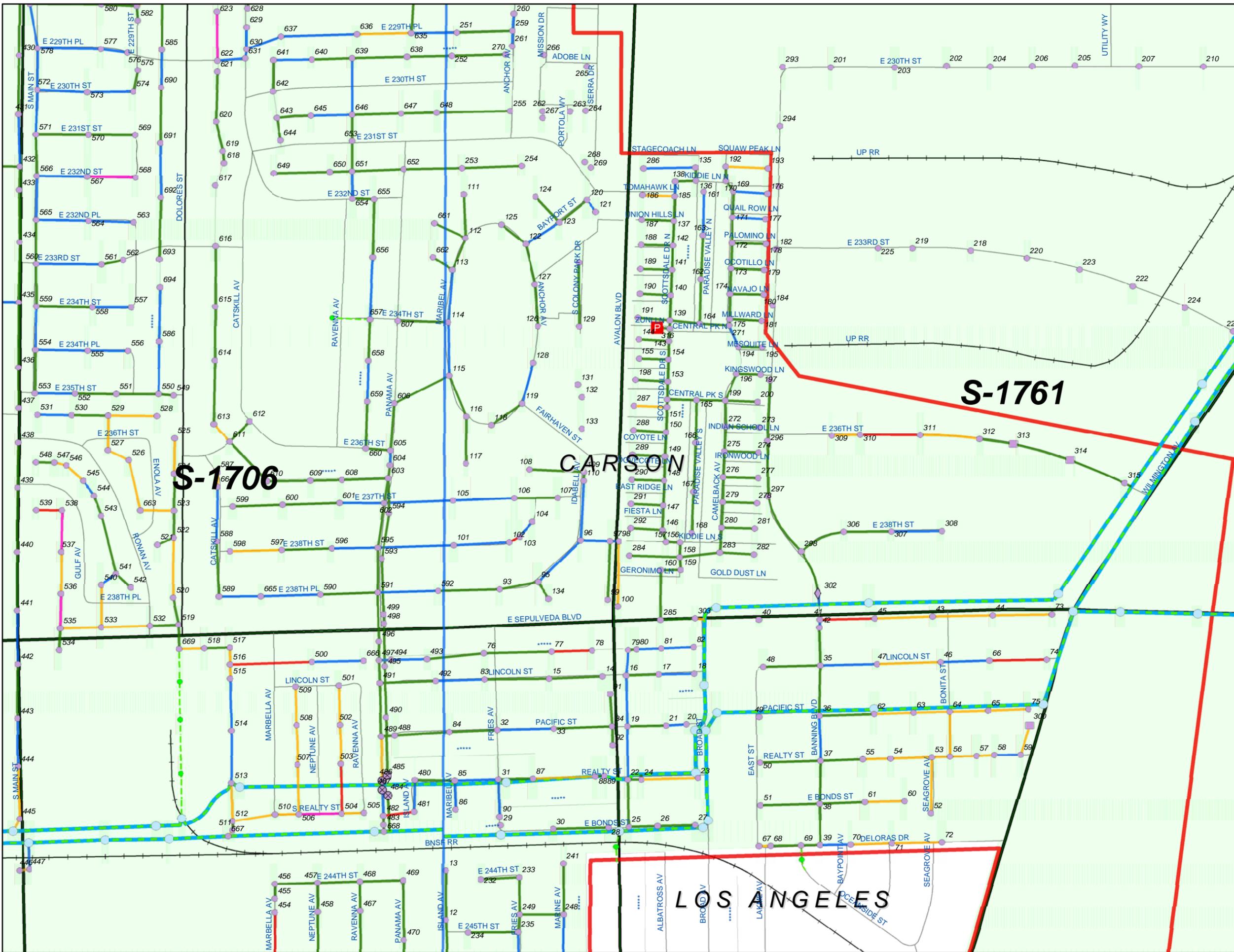
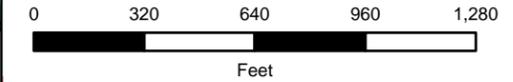
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MARCH 2011

ENCLOSURE 3 CCTV PROJECT Y0TV0809D

Supervisory District 2
City of Carson

QUICK STRUCTURAL RATING (QSR)



Legend

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SMD Treatment Plants

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MARCH 2011

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 958	PSR: 65848
Total Pipe Length: 481.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/11/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: ALLEY	Flow Control: Not Controlled	Start MH: 1706-0500
City: CAR	Year Renewed	End MH: 1706-0516
Location Code: Alley	Tape/Media #: G312-007	pipe length: 353.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0500/1706-0516/1706	Lining Method:
	Category:

Remark::

1:660	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0500	00:00:34	1611	
	5.00	Water Level, 5 %, within 8 inch: NO	00:01:04	1612	M 2
	5.30	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:01:17	1613	
	7.10	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:01:33	1614, b	S 2
	14.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:04	1616	
	14.80 S1	Crack Multiple, from 4 to 8 o'clock, within 8 inch: YES, Start	00:02:24	1617, b	S 3
	54.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:03:31	1619	
	69.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:25	1620	
	100.70	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:05:50	1621	
	119.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:29	1622	
	121.40	Hole Soil Visible, from 9 to 11 o'clock, within 8 inch: NO	00:07:11	1623, b	S 5
	121.40	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:07:36	1626, b	S 2
	150.30	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:08:39	1628	
	174.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:41	1629	
	180.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:24	1630	
	225.70 F1	Crack Multiple, from 4 to 8 o'clock, within 8 inch: YES, End	00:12:03	1631	S 3
	225.80 S2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:12:17	1632, b	S 3
	280.20	Deposits Attached Grease, from 7 to 5 o'clock, 5 %, within 8 inch: NO	00:14:15	1634, b	M 2
	290.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:14:54	1636	



Inspection report

Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 958	PSR: 65848
Total Pipe Length: 481.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/11/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

1:660	position	observation	MPEG	photo	grade
	<u>304.40</u>	Deposits Attached Grease, from 7 to 5 o'clock, 10 %, within 8 inch: YES	00:15:46	1637, b	M 2
	<u>317.90</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:30	1639	
	<u>322.60</u> S3	Deposits Attached Grease, from 7 to 5 o'clock, 20 %, within 8 inch: NO, Start	00:17:19	1640, b	M 3
	<u>323.80</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:49	1643	
	<u>323.80</u>	Deposits Attached Grease, at 3 o'clock, 20 %, within 8 inch: NO	00:18:05	1644, b	M 3
	<u>353.70</u> F1	Crack Multiple, from 4 to 8 o'clock, within 8 inch: YES, End	00:21:24	1648	S 3
	<u>353.70</u> F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:21:52	1649	S 3
	<u>353.80</u> F3	Deposits Attached Grease, from 7 to 5 o'clock, 20 %, within 8 inch: NO, End	00:20:14	1650	M 3
	<u>353.80</u>	Manhole, within 8 inch: NO, Remarks: 1706-0516	00:20:52	1651	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5135	3323	24	15	39	3	2.5	2.79



Inspection report

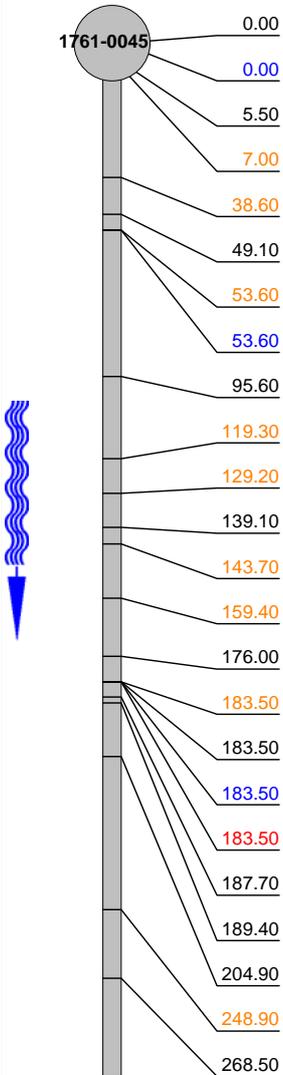
Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 960	PSR: 61224
Total Pipe Length: 322.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/11/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

Street: SEPULVEDA BV	Flow Control: Not Controlled	Start MH: 1761-0045
City: CAR	Year Renewed:	End MH: 1761-0041
Location Code: Main Highway - Suburban/Rural	Tape/Media #: G312-007	pipe length: 348.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0041/1761-0045/1761	Lining Method:
	Category:

Remark::

1:660	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1761-0045, Buried MH	00:00:40	1677	
	<u>0.00</u>	Water Level, 10 %, within 8 inch: NO	00:00:50	1678	M 2
	5.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:11	1679	
	<u>7.00</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:01:45	1680, b	S 3
	<u>38.60</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:14	1682, b	S 3
	49.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:53	1684	
	<u>53.60</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:39	1685, b	S 3
	<u>53.60</u>	Fracture Circumferential, from 4 to 7 o'clock, within 8 inch: YES	00:05:20	1687, b	S 2
	95.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:51	1689	
	<u>119.30</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:08:07	1690, b	S 3
	<u>129.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:09:05	1692, b	S 3
	139.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:44	1694	
	<u>143.70</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:18	1695, b	S 3
	<u>159.40</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:11:13	1697, b	S 3
	176.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:05	1699	
	<u>183.50</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:12:59	1700, b	S 3
	183.50	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:13:10	1702, b	
	<u>183.50</u>	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:13:22	1704, b	S 2
	<u>183.50</u>	Broken, from 4 to 8 o'clock, within 8 inch: YES	00:14:04	1706, b	S 5
	187.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:50	1708	
	189.40	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:15:18	1709, b	
	204.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:16:10	1711, b	
	<u>248.90</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:17:33	1713, b	S 3
	268.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:18:22	1715	

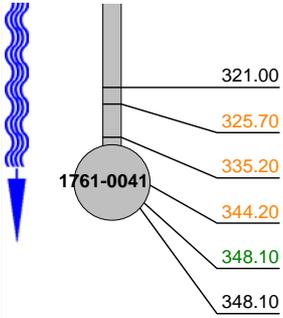




Inspection report

Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 960	PSR: 61224
Total Pipe Length: 322.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/11/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

1:660	position	observation	MPEG	photo	grade
	321.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:10	1716	
	<u>325.70</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:20:54	1717, b	S 3
	<u>335.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:22:33	1719, b	S 3
	<u>344.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:23:44	1721, b	S 3
	<u>348.10</u>	Vermin Cockroach, within 8 inch: NO	00:24:47	1723	M 1
	<u>348.10</u>	Manhole, within 8 inch: NO, Remarks: 1761-0041	00:24:58	1724	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
513A	2111	45	3	48	3	1.5	2.82



Inspection report

Date: 20090427	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 113	PSR: 65827
Total Pipe Length: 162.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/21/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0481
City: CAR	Year Renewed:	End MH: 1706-0482
Location Code: Light Highway	Tape/Media #: M313-057	pipe length: 161 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0481/1706-0482/1706	Lining Method:
	Category:

Remark::

1:375	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0481	00:00:33	3189	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:41	3190	M 1
	3.00	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:01:18	3191, b	S 1
	5.00	Water Level, 5 %, within 8 inch: NO	00:02:18	3193	M 2
	5.00	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:02:32	3194, b	S 1
	9.20	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:03:18	3196	S 1
	11.90 S1	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Start	00:10:16	3197, b	S 1
	98.90	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:14:22	3201	
	139.00	Broken, from 6 to 12 o'clock, within 8 inch: YES	00:23:51	3202, b	S 5
	161.00 F1	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, End	00:25:09	3204	S 1
	161.00	Manhole, within 8 inch: NO, Remarks: 1706-0482	00:25:22	3205	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5115	2111	10	3	13	1.67	1.5	1.63



Inspection report

Date: 20090519	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1042	PSR: 65760
Total Pipe Length: 242.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/18/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0537
City: CAR	Year Renewed:	End MH: 1706-0538
Location Code: Easement/Right of Way	Tape/Media #: G312-013	pipe length: 240.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0537/1706-0538/1706	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0537	00:00:39	3119	
	2.00	Fracture Circumferential, from 4 to 2 o'clock, within 8 inch: NO	00:01:24	3120, b	S 2
	2.50	Tap Factory Defective, at 3 o'clock, 4", 2, within 8 inch: NO, Remarks: fractured	00:02:01	3122, b	M 2
	3.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:02:35	3124, b	S 3
	5.00	Water Level, 15 %, within 8 inch: NO	00:03:03	3126	M 2
	14.00 S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:03:51	3127, b	S 3
	33.20	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:05:07	3129	
	53.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:05:58	3130	
	53.50	Roots Tap Lateral, at 3 o'clock, 15 %, within 8 inch: NO	00:6:10	3131	M 2
	89.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:07:43	3132	
	101.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:30	3133	
	131.30	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:09:51	3134	
	146.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:35	3135	
	153.20 S2	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, Start	00:10:59	3136, b	
	179.40	Tap Factory Defective, at 9 o'clock, 4", 2, within 8 inch: NO	00:12:25	3138, b	M 2
	203.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:13:41	3140	
	230.10	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:15:17	3141	
	236.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:15:57	3142	
	237.60	Broken, from 5 to 7 o'clock, within 8 inch: YES	00:16:30	3143, b	S 4
	240.90 F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:17:29	3145	S 3
	240.90 F2	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, End	00:17:43	3146	
	240.90	Manhole, within 8 inch: NO, Remarks: 1706-0538, buried	00:18:01	3147	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2400	15	8	23	3	2	2.56



Inspection report

Date: 20090508	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 954	PSR: 65853
Total Pipe Length: 289.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/07/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0503
City: CAR	Year Renewed:	End MH: 1706-0504
Location Code: Easement/Right of Way	Tape/Media #: G312-006	pipe length: 287.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0503/1706-0504/1706	Lining Method:
	Category:

Remark::

1:462	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0503	00:00:37	1465	
	<u>0.00</u>	Water Level, 10 %, within 8 inch: NO	00:00:54	1466	M 2
	<u>18.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:2:10	1467, b	S 3
	<u>19.30</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:38	1469	
	<u>22.10</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:08	1470	
	<u>39.40</u> S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:04:18	1471, b	S 3
	<u>39.40</u> S2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:04:31	1473, b	
	<u>77.30</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:03	1475	
	<u>77.30</u>	Roots Medium Lateral, at 3 o'clock, 35 %, within 8 inch: NO	00:07:20	1476	M 3
	<u>80.10</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:08:04	1477	
	<u>120.10</u> S3	Water Level Sag, 45 %, within 8 inch: NO, Start	00:09:59	1478, b	M 3
	<u>120.10</u>	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:10:38	1480, b	S 2
	<u>127.60</u> S4	Broken Soil Visible, from 7 to 6 o'clock, within 8 inch: YES, Start	00:12:21	1482, b	S 5
	<u>127.60</u>	Deformed, 10 %, within 8 inch: NO	00:12:56	1485, b	S 4
	<u>127.60</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:13:16	1487, b	S 4
	<u>129.60</u> F4	Broken Soil Visible, from 7 to 6 o'clock, within 8 inch: YES, End	00:14:46	1489	S 5
	<u>130.70</u> F3	Water Level Sag, 45 %, within 8 inch: NO, End	00:15:04	1490	M 3
	<u>130.90</u>	Broken, from 4 to 9 o'clock, within 8 inch: YES	00:15:28	1491, b	S 5
	<u>138.00</u>	Water Level, 10 %, within 8 inch: NO	00:15:55	1493	M 2
	<u>156.90</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:17:56	1494	
	<u>159.30</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:18:23	1495	
	<u>196.00</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:20:34	1496	
	<u>198.60</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:20:59	1497	



Inspection report

Date: 20090508	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 954	PSR: 65853
Total Pipe Length: 289.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/07/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

1:462	position	observation	MPEG	photo	grade
	224.70 F2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:22:21	1498	
	<u>228.40</u>	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:22:49	1499, b	S 1
	<u>228.40</u> F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:23:01	1501	S 3
	<u>231.90</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:23:39	1502, b	S 3
	<u>246.80</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:25:32	1504, b	S 3
	<u>262.50</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:28:15	1506, b	S 3
	<u>278.00</u> S5	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, Start	00:31:05	1508, b	S 2
	<u>281.00</u> F5	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, End	00:31:58	1510	S 2
	<u>281.00</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:32:21	1511, b	S 3
	<u>287.80</u>	Manhole, within 8 inch: NO, Remarks: 1706-0504	00:34:12	1513	



Inspection report

Date: 20090519	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1040	PSR: 65758
Total Pipe Length: 212.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/18/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0535
City: CAR	Year Renewed	End MH: 1706-0536
Location Code: Easement/Right of Way	Tape/Media #: G312-013	pipe length: 211.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0535/1706-0536/1706	Lining Method:
	Category:

Remark::

1:475	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0535	00:00:34	3051	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:45	3052	M 1
	3.60	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:01:55	3053, b	
	3.60	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:02:09	3055, b	S 1
	5.00	Water Level, 10 %, within 8 inch: NO	00:02:46	3057	M 2
	5.10	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:03:11	3058, b	S 3
	43.40	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:04:24	3060	
	46.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:44	3061	
	46.10	Roots Tap Lateral, at 3 o'clock, 15 %, within 8 inch: NO	00:05:00	3062	M 2
	59.00	Crack Multiple, from 6 to 10 o'clock, within 8 inch: YES	00:05:57	3063, b	S 3
	59.00	Roots Fine Joint, from 9 to 10 o'clock, within 8 inch: YES	00:06:07	3065, b	
	71.30 S2	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES, Start	00:07:05	3067, b	S 3
	71.30	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:07:17	3069, b	
	77.80 S1	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:08:22	3071, b	S 4
	77.80	Joint Offset Medium, within 8 inch: YES	00:08:34	3073, b	S 1
	81.00 F1	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:09:30	3075	S 4
	81.20	Deposits Attached Encrustation, from 10 to 2 o'clock, 10 %, within 8 inch: NO	00:10:07	3076, b	M 2
	85.50	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:10:37	3078	
	140.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:12:16	3079	
	140.30	Roots Medium Connection, from 2 to 6 o'clock, 25 %, within 8 inch: NO	00:12:34	3080, b	M 3
	143.00	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:13:16	3082	
	182.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:14:33	3083	
	206.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:15:19	3084	
	207.40 F2	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES, End	00:15:34	3085	S 3
	211.20	Manhole, within 8 inch: NO, Remarks: 1706-0536, buried MH	00:16:17	3086	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4234	3123	22	10	32	2.75	2	2.46



Inspection report

Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 956	PSR: 65855
Total Pipe Length: 251.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/08/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: REALTY ST	Flow Control: Not Controlled	Start MH: 1706-0504
City: CAR	Year Renewed	End MH: 1706-0506
Location Code: Light Highway	Tape/Media #: G312-007	pipe length: 260 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0504/1706-0506/1706	Lining Method:
	Category:

Remark::

1:495	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0504	00:00:32	1545	
	5.00	Water Level, 10 %, within 8 inch: NO	00:01:04	1546	M 2
	6.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:01:37	1547, b	S 3
	6.40	Water Mark, 15 %, within 8 inch: NO	00:01:53	1549	M 2
	12.20 S1	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, Start	00:02:18	1550, b	S 2
	22.00	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:03:09	1552, b	S 3
	45.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:59	1554	
	71.60 F1	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, End	00:04:42	1555	S 2
	77.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:05:17	1556, b	S 3
	84.30 S2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:05:59	1558, b	S 3
	101.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:50	1560	
	115.50	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:08:09	1561, b	S 2
	159.80	Broken, from 7 to 9 o'clock, within 8 inch: YES	00:10:25	1563, b	S 4
	159.80	Fracture Circumferential, from 8 to 10 o'clock, within 8 inch: YES	00:10:40	1565, b	S 2
	160.30 S3	Fracture Circumferential, from 4 to 5 o'clock, within 8 inch: YES, Start	00:11:08	1567, b	S 2
	160.30 S4	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES, Start	00:11:32	1569, b	S 3
	160.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:02	1571	
	165.50 F3	Fracture Circumferential, from 4 to 5 o'clock, within 8 inch: YES, End	00:12:41	1572	S 2
	165.50 F4	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES, End	00:12:53	1573	S 3
	210.00	Water Level, 15 %, within 8 inch: NO	00:14:32	1574	M 2
	216.40	Water Level, 25 %, within 8 inch: NO	00:14:47	1575	M 2
	217.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:59	1576	
	222.40	Water Mark, 20 %, within 8 inch: NO	00:17:43	1577	M 2

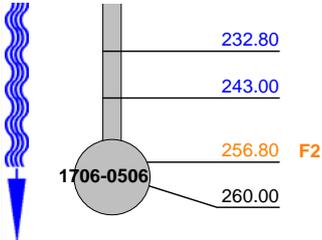


Inspection report

Date: 20090511	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 956	PSR: 65855
Total Pipe Length: 251.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 05/08/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

1:495	position	observation	MPEG	photo	grade
	<u>232.80</u>	Water Level, 15 %, within 8 inch: NO	00:18:03	1578	M 2
	<u>243.00</u>	Water Level, 25 %, within 8 inch: NO, Remarks: Flow held by cement at DS	00:18:36	1579	M 2
	<u>256.80</u> F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:19:34	1580	S 3
	<u>260.00</u>	Manhole, within 8 inch: NO, Remarks: 1706-0506	00:20:24	1581	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4137	2700	37	14	51	2.64	2	2.43





Inspection report

Date: 20090330	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1250	PSR: 66783
Total Pipe Length: 160.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1705

Street: KINARD AV	Flow Control: Not Controlled	Start MH: 1705-0582
City: CAR	Year Renewed	End MH: 1705-0581
Location Code: Light Highway	Tape/Media #: R045	pipe length: 219 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0581/1705-0582/1705	Lining Method:
	Category:

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1705-0582	00:00:34	2350	
	6.50	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:01:04	2351	
	6.50	Vermin Cockroach, within 8 inch: NO	00:01:14	2352, b	M 1
	16.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:56	2354	
	42.60	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:03:01	2355	
	58.90	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:03:50	2356	
	75.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:04:43	2357	
	76.20	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:05:04	2358, b	S 2
	76.20	Crack Circumferential, from 6 to 9 o'clock, within 8 inch: YES	00:05:22	2360, b	S 1
	98.20	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:06:40	2362	
	121.30	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:07:45	2363	
	125.80	Fracture Multiple, from 8 to 5 o'clock, within 8 inch: YES	00:08:22	2364, b	S 4
	137.70	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:09:24	2366	
	153.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:10:15	2367	
	180.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:23	2368	
	189.90	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:12:03	2369	
	219.00	Manhole, within 8 inch: NO, Remarks: 1705-0581	00:13:37	2370	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	1100	7	1	8	2.33	1	2



Inspection report

Date: 20090406	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 853	PSR: 65791
Total Pipe Length: 282.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 03/31/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: 232ND ST	Flow Control: Not Controlled	Start MH: 1706-0567
City: CAR	Year Renewed	End MH: 1706-0568
Location Code: Light Highway	Tape/Media #: M313-045	pipe length: 297.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0567/1706-0568/1706	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0567	00:00:30	9153	
	6.00	Water Level, 10 %, within 8 inch: NO	00:01:09	9154	M 2
	22.40	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:01:54	9155	
	25.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:2:10	9156	
	28.10	Fracture Circumferential, from 10 to 11 o'clock, within 8 inch: YES	00:02:47	9157, b	S 2
	28.10	Broken, from 11 to 1 o'clock, within 8 inch: YES	00:03:16	9159, b	S 4
	28.10	Intruding Sealing Ring Hanging, from 10 to 1 o'clock, 10 %, within 8 inch: YES	00:03:51	9161, b	M 2
	41.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:35	9163	
	77.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:52	9164	
	77.00	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:06:02	9165	M 1
	144.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:14	9166	
	146.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:28	9167	
	148.90	Water Level, 5 %, within 8 inch: NO	00:08:40	9168	M 2
	158.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:05	9169	
	197.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:26	9170	
	212.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:02	9171	
	227.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:49	9172	
	261.80	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:13:04	9173, b	
	266.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:30	9175	
	266.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:13:41	9176	M 1
	287.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:29	9177	
	287.50	Roots Medium Lateral, at 3 o'clock, 30 %, within 8 inch: NO	00:14:43	9178	M 3
	290.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:00	9179	
	293.20	Roots Fine Joint, from 4 to 6 o'clock, within 8 inch: YES	00:15:16	9180, b	
	297.40	Manhole, within 8 inch: NO, Remarks: 1706-0568	00:15:56	9182	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	3123	6	11	17	3	1.83	2.13



Inspection report

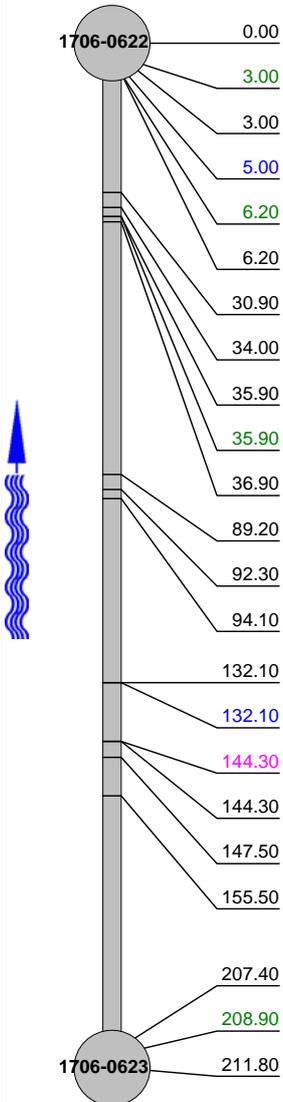
Date: 20090325	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 749	PSR: 65723
Total Pipe Length: 286.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 03/17/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: ALLEY	Flow Control: Not Controlled	Start MH: 1706-0622
City: CAR	Year Renewed	End MH: 1706-0623
Location Code: Light Highway	Tape/Media #: M313-038	pipe length: 211.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0622/1706-0623/1706	Lining Method:
	Category:

Remark::

1:475	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0622	00:00:29	7117	
	3.00	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:01:13	7118, b	S 1
	3.00	Roots Fine Joint, from 12 to 4 o'clock, within 8 inch: YES	00:01:27	7120, b	
	5.00	Water Level, 5 %, within 8 inch: NO	00:2:10	7122	M 2
	6.20	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:02:20	7123, b	S 1
	6.20	Roots Fine Joint, from 10 to 4 o'clock, within 8 inch: YES	00:02:37	7125, b	
	30.90	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:03:37	7127	
	34.00	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:04:05	7128	
	35.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:20	7129	
	35.90	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:04:30	7130	M 1
	36.90	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:04:47	7131, b	
	89.20	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:06:42	7133, b	
	92.30	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:07:06	7135, b	
	94.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:27	7137	
	132.10	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:08:43	7138	
	132.10	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:08:55	7139, b	S 2
	144.30	Broken, from 1 to 3 o'clock, within 8 inch: YES	00:09:49	7141, b	S 4
	144.30	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:10:08	7143, b	
	147.50	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:10:35	7145, b	
	155.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:09	7147	
	207.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:47	7148	
	208.90	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:13:12	7149, b	S 1
	211.80	Manhole, within 8 inch: NO, Remarks: 1706-0623	00:13:54	7151	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2111	9	3	12	1.8	1.5	1.71



Inspection report

Date: 20090416	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2411	PSR: 66002
Total Pipe Length: 88.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: FIGUERROA ST	Flow Control: Not Controlled	Start MH: 1706-0279
City: CAR	Year Renewed	End MH: 1706-0278
Location Code: Light Highway	Tape/Media #: A315-043	pipe length: 86.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0278/1706-0279/1706	Lining Method:
	Category:

Remark::

1:200	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0279	00:00:33	11198	
	1.00	Crack Multiple, from 6 to 6 o'clock, within 8 inch: NO	00:01:25	11199, b	S 3
	3.30	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:03:53	11201, b	S 2
	5.40	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:04:39	11204, b	S 2
	6.00	Water Level, 10 %, within 8 inch: NO	00:05:08	11206	M 2
	6.00	Water Mark, 15 %, within 8 inch: NO	00:05:16	11207	M 2
	7.00	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:05:37	11208, b	S 2
	8.50	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:06:02	11210, b	S 2
	8.50	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:06:17	11212, b	S 2
	8.50	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:06:36	11214, b	S 1
	14.70	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:07:18	11216, b	S 2
	14.70	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:07:35	11218, b	S 2
	14.70	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	00:07:53	11220, b	S 1
	17.70	Crack Circumferential, from 9 to 9 o'clock, within 8 inch: YES	00:08:32	11222, b	S 1
	20.80	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:09:13	11224, b	S 2
	28.50	Fracture Circumferential, from 2 to 3 o'clock, within 8 inch: YES	00:10:01	11226, b	S 2
	29.30	Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:10:38	11228, b	S 2
	30.00	Crack Circumferential, from 9 to 8 o'clock, within 8 inch: YES	00:11:09	11230, b	S 1
	31.10	Broken, from 3 to 5 o'clock, within 8 inch: YES	00:12:02	11232, b	S 4
	33.20	Crack Circumferential, from 4 to 10 o'clock, within 8 inch: YES	00:12:35	11234, b	S 1
	42.60	Crack Circumferential, from 8 to 8 o'clock, within 8 inch: YES	00:13:25	11236, b	S 1
	45.60	Crack Circumferential, from 9 to 11 o'clock, within 8 inch: YES	00:14:02	11238, b	S 1
	46.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:33	11240	
	62.50	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:15:38	11241, b	S 1
	86.60	Manhole, within 8 inch: NO, Remarks: 1706-0278	00:17:02	11243	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	35	4	39	1.75	2	1.77



Inspection report

Date: 20090409	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2349	PSR: 65997
Total Pipe Length: 78.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: CAROLDALE AV	Flow Control: Not Controlled	Start MH: 1706-0276
City: CAR	Year Renewed:	End MH: 1706-0275
Location Code: Light Highway	Tape/Media #: A315-038	pipe length: 1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0275/1706-0276/1706	Lining Method:
	Category:

Remark::

1:25	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0276	00:00:34	8785	
	1.00	Broken Soil Visible, from 12 to 12 o'clock, within 8 inch: NO	00:01:36	8786, b	S 5
	1.00	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO BROKEN PIPE	00:02:25	8790, b	

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



Inspection report

Date: 20090430	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 143	PSR: 65795
Total Pipe Length: 259.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/27/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: MARBELLA AV	Flow Control: Not Controlled	Start MH: 1706-0453
City: CAR	Year Renewed:	End MH: 1706-0454
Location Code: Light Highway	Tape/Media #: M313-060	pipe length: 255.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0453/1706-0454/1706	Lining Method:
	Category:

Remark::

1:575	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0453	00:00:30	3825	
	<u>6.00</u>	Water Level, 10 %, within 8 inch: NO	00:01:13	3826	M 2
	<u>15.30</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:01:38	3827	
	<u>18.10</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:01:54	3828	
	<u>66.40</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:42	3829	
	<u>69.10</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:59	3830	
	<u>116.40</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:05:37	3831	
	<u>119.50</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:05:55	3832	
	<u>119.50</u>	Deposits Attached Encrustation, from 2 to 4 o'clock, 20 %, within 8 inch: NO	00:06:25	3833	M 3
	<u>157.90</u>	Water Level, 20 %, within 8 inch: NO	00:07:45	3834	M 2
	<u>161.10</u>	Broken Soil Visible, from 10 to 3 o'clock, within 8 inch: YES	00:08:26	3835, b	S 5
	<u>165.90</u>	Deposits Attached Grease, from 6 to 8 o'clock, 10 %, within 8 inch: NO	00:09:29	3837	M 2
	<u>167.90</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:09:45	3838	
	<u>170.50</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:03	3839	
	<u>180.80</u>	Water Level, 10 %, within 8 inch: NO	00:10:33	3840	M 2
	<u>219.00</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:12:03	3841	
	<u>221.60</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:12:19	3842	
	<u>249.70</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:13:21	3843	
	<u>252.60</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:13:37	3844	
	<u>255.90</u>	Manhole, within 8 inch: NO, Remarks: 1706-0454	00:13:57	3845	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	3124	5	11	16	5	2.2	2.67



Inspection report

Date: 20090420	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2429	PSR: 65990
Total Pipe Length: 445.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: FIGUERROA ST	Flow Control: Not Controlled	Start MH: 1706-0271A
City: CAR	Year Renewed	End MH: 1706-0272
Location Code: Light Highway	Tape/Media #: A315-045	pipe length: 115.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0271A/1706-0272/1706	Lining Method:
	Category:

Remark::

1:275	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0271A	00:00:32	11805	
	6.00	Water Level, 5 %, within 8 inch: NO	00:01:51	11806	M 2
	6.00	Water Mark, 10 %, within 8 inch: NO	00:02:01	11807	M 2
	38.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:18	11808	
	38.50	Roots Medium Lateral, at 3 o'clock, 10 %, within 8 inch: NO	00:03:39	11809, b	M 3
	39.20	Roots Fine Joint, from 1 to 4 o'clock, within 8 inch: YES	00:04:27	11811, b	
	62.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:44	11813	
	62.60	Roots Medium Lateral, at 3 o'clock, 10 %, within 8 inch: NO	00:05:59	11814, b	M 3
	72.90	Roots Fine Joint, from 9 to 11 o'clock, within 8 inch: YES	00:06:52	11816, b	
	91.30	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:08:06	11818, b	
	98.40	Roots Fine Barrel, from 7 to 3 o'clock, within 8 inch: NO	00:09:05	11820	M 2
	98.40	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:09:30	11821, b	S 1
	115.90	Broken, from 2 to 10 o'clock, within 8 inch: YES	00:10:38	11823, b	S 5
	115.90	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO BROKEN PIPE	00:11:38	11825	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	3223	6	12	18	3	2.4	2.57



Inspection report

Date: 20090515	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 175	PSR: 65816
Total Pipe Length: 263.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 05/04/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0472
City: CAR	Year Renewed:	End MH: 1761-0010
Location Code: Easement/Right of Way	Tape/Media #: M313-065	pipe length: 246.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0010/1761-0472/1706	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0472	00:00:27	4339	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:34	4340	M 1
	6.00	Water Level, 10 %, within 8 inch: NO	00:01:18	4341	M 2
	30.10	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:02:26	4342	
	30.10	Roots Fine Connection, at 9 o'clock, within 8 inch: NO	00:02:47	4343	M 1
	32.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:13	4344	
	32.70	Roots Fine Connection, at 3 o'clock, within 8 inch: NO	00:03:32	4345	M 1
	39.50	Hole Void Visible, from 11 to 1 o'clock, within 8 inch: YES	00:04:20	4346, b	S 5
	39.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:40	4348, b	
	39.50	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:04:54	4350, b	S 1
	246.70	Vermin Cockroach, within 8 inch: NO	00:14:45	4352	M 1
	246.70	Manhole, within 8 inch: NO, Remarks: 1761-0010	00:14:56	4353	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	2114	6	6	12	3	1.2	1.71



Inspection report

Date: 20090415	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 66	PSR: 61124
Total Pipe Length: 238.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/14/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

Street: ALLEY	Flow Control: Not Controlled	Start MH: 1761-0077
City: CAR	Year Renewed	End MH: 1761-0078
Location Code: Alley	Tape/Media #: M313-052	pipe length: 333.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0077/1761-0078/1761	Lining Method:
	Category:

Remark::

1:396	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1761-0077	00:00:27	1866	
	3.00	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:00:53	1867, b	S 1
	4.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:23	1869	
	5.00	Water Level, 5 %, within 8 inch: NO	00:01:56	1870	M 2
	7.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:2:10	1871	
	25.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:02:56	1872	
	27.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:13	1873	
	52.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:11	1874	
	54.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:28	1875	
	75.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:22	1876	
	78.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:05:41	1877	
	105.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:46	1878	
	107.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:06	1879	
	111.60	Water Level, 5 %, within 8 inch: NO	00:07:23	1880	M 2
	126.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:08:00	1881	
	150.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:05	1882	
	151.30	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:09:33	1883, b	S 1
	152.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:57	1885	
	154.20	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:10:18	1886, b	S 1
	166.10	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:11:17	1888, b	S 1
	176.80	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:12:08	1890	



Inspection report

Date: 20090415	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 66	PSR: 61124
Total Pipe Length: 238.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/14/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

1:396	position	observation	MPEG	photo	grade
	<u>179.20</u>	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: NO	00:12:34	1891, b	S 1
	<u>179.40</u>	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO	00:13:05	1893	M 2
	<u>180.50</u>	Crack Circumferential, from 7 to 4 o'clock, within 8 inch: YES	00:13:25	1894, b	S 1
	<u>192.80</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:14:28	1896, b	S 2
	<u>194.40</u>	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:14:55	1898	
	<u>203.20</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:24	1899	
	<u>227.20</u>	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:16:32	1900	
	<u>230.10</u>	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:16:51	1901	
	<u>250.70</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:45	1902	
	<u>253.40</u>	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:18:07	1903	
	<u>269.50</u>	Deposits Attached Grease, from 9 to 3 o'clock, 10 %, within 8 inch: NO	00:19:10	1904, b	M 2
	<u>272.80</u>	Deposits Attached Grease, from 11 to 2 o'clock, 5 %, within 8 inch: NO	00:19:46	1906	M 2
	<u>277.40</u>	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:20:09	1907	
	<u>279.90</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:31	1908	
	<u>290.50</u>	Deposits Attached Grease, from 10 to 2 o'clock, 15 %, within 8 inch: NO	00:21:15	1909, b	M 3
	<u>296.70</u>	Crack Circumferential, from 3 to 8 o'clock, within 8 inch: YES	00:21:57	1911, b	S 1
	<u>296.70</u>	Deposits Attached Grease, from 10 to 3 o'clock, 5 %, within 8 inch: NO	00:22:17	1913	M 2
	<u>298.00</u>	Hole Soil Visible, from 2 to 4 o'clock, within 8 inch: NO	00:22:43	1914, b	S 5
	<u>304.80</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:23:26	1916	
	<u>304.80</u>	Deposits Attached Grease, at 3 o'clock, 80 %, within 8 inch: NO, Remarks: IN LATERAL	00:23:51	1917, b	M 5
	<u>307.20</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:24:25	1919	
	<u>307.20</u>	Deposits Attached Grease, at 9 o'clock, 80 %, within 8 inch: NO, Remarks: IN LATERAL	00:24:46	1920	M 5
	<u>328.40</u>	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:25:42	1921	
	<u>331.00</u>	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:26:02	1922	
	<u>333.60</u>	Manhole, within 8 inch: NO, Remarks: 1761-0078	00:26:22	1923	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	5231	14	25	39	1.56	2.78	2.17



Inspection report

Date: 20090406	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2317	PSR: 66000
Total Pipe Length: 174.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: CAROLDALE AV	Flow Control: Not Controlled	Start MH: 1706-0316
City: CAR	Year Renewed	End MH: 1706-0277
Location Code: Light Highway	Tape/Media #: A315-036	pipe length: 140.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0277/1706-0316/1706	Lining Method:
	Category:

Remark::

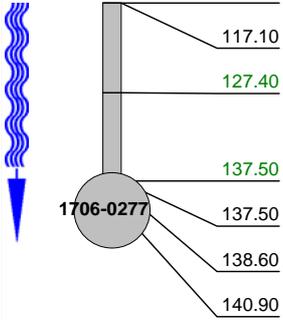
1:264	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0316	00:00:32	8112	
	6.00	Water Level, 15 %, within 8 inch: NO	00:01:03	8113	M 2
	6.00	Water Mark, 20 %, within 8 inch: NO	00:01:14	8114	M 2
	15.10	Crack Circumferential, from 8 to 1 o'clock, within 8 inch: YES	00:01:46	8115, b	S 1
	15.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:14	8117	
	21.10	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:02:42	8118, b	S 1
	45.60	Broken Void Visible, from 9 to 2 o'clock, within 8 inch: NO	00:04:21	8120, b	S 5
	68.90	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:06:06	8123	S 1
	68.90	Roots Fine Joint, from 4 to 10 o'clock, within 8 inch: YES	00:06:40	8124, b	
	68.90	Fracture Circumferential, from 8 to 12 o'clock, within 8 inch: YES	00:07:02	8126	S 2
	69.70	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:07:21	8127, b	
	69.70	Roots Fine Connection, from 7 to 9 o'clock, within 8 inch: NO	00:07:47	8129	M 1
	70.50	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	00:08:16	8130, b	S 1
	82.50	Tap Factory Defective, at 3 o'clock, 6", within 8 inch: NO	00:09:19	8132, b	M 2
	95.00	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:10:23	8134, b	S 1
	97.60	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:10:54	8136, b	S 1
	98.50	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO	00:11:25	8138, b	M 2
	98.50	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:11:52	8140	M 1
	106.90	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:12:37	8141, b	
	106.90	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:12:55	8143, b	S 1
	110.50	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:13:30	8145, b	
	110.50	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:13:39	8147, b	S 2
	113.70	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:14:14	8149, b	
	113.70	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:14:40	8151	S 1
	117.10	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:14:58	8152, b	S 1
	117.10	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:15:15	8154, b	



Inspection report

Date: 20090406	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2317	PSR: 66000
Total Pipe Length: 174.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1706

1:264	position	observation	MPEG	photo	grade
	<u>117.10</u>	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:14:58	8152, b	S 1
	<u>117.10</u>	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:15:15	8154, b	
	<u>127.40</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:16:02	8156, b	S 1
	<u>137.50</u>	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:16:49	8158, b	S 1
	<u>137.50</u>	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	00:17:04	8160, b	
	<u>138.60</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:32	8162	
	<u>140.90</u>	Manhole, within 8 inch: NO, Remarks: 1706-0277	00:17:53	8163	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	2412	20	10	30	1.43	1.67	1.5



Inspection report

Date: 20090409	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 22	PSR: 65859
Total Pipe Length: 343.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/02/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: 234TH ST	Flow Control: Not Controlled	Start MH: 1706-0388
City: CAR	Year Renewed	End MH: 1706-0387
Location Code: Light Highway	Tape/Media #: M313-048	pipe length: 276.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0387/1706-0388/1706	Lining Method:
	Category:

Remark::

1:264	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0388	00:00:29	755	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:37	756	M 1
	5.00	Water Level, 5 %, within 8 inch: NO	00:01:23	757	M 2
	9.20	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES	00:01:39	758, b	
	15.90	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:02:26	760, b	
	48.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:43	762	
	48.50	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:04:03	763, b	S 1
	49.10	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:04:23	765, b	
	51.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:53	767	
	51.20	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:05:06	768	M 1
	52.20	Roots Fine Joint, from 7 to 3 o'clock, within 8 inch: YES	00:05:24	769, b	
	64.50	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:06:05	771, b	
	69.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:37	773	
	69.60	Roots Medium Lateral, at 3 o'clock, 30 %, within 8 inch: NO	00:06:53	774	M 3
	79.70	Roots Fine Joint, from 12 to 1 o'clock, within 8 inch: YES	00:07:27	775, b	
	85.90	Roots Fine Joint, from 12 to 5 o'clock, within 8 inch: YES	00:08:09	777, b	
	89.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:08:37	779, b	
	90.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:02	781	
	90.80	Roots Ball Lateral, at 9 o'clock, 90 %, within 8 inch: NO	00:09:18	782	M 4
	94.70	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES	00:09:44	783, b	
	94.70	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:10:01	785, b	S 1
	104.10	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:10:40	787, b	
	107.40	Roots Fine Joint, from 7 to 12 o'clock, within 8 inch: YES	00:11:13	789, b	



Inspection report

Date: 20090409	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 22	PSR: 65859
Total Pipe Length: 343.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/02/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

1:264	position	observation	MPEG	photo	grade
	123.00	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:12:07	791, b	
	137.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:55	793	
	137.20	Roots Ball Lateral, at 3 o'clock, 75 %, within 8 inch: NO	00:13:16	794	M 4
	141.20	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:13:43	795, b	
	150.60	Roots Fine Joint, from 2 to 8 o'clock, within 8 inch: YES	00:14:24	797, b	
	156.90	Roots Fine Joint, from 1 to 8 o'clock, within 8 inch: YES	00:14:57	799, b	
	159.90	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:15:31	801	
	165.90	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:15:57	802, b	
	169.40 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:16:25	804, b	
	174.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:06	808	
	174.40	Roots Medium Lateral, at 9 o'clock, 45 %, within 8 inch: NO	00:17:23	809	M 3
	176.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:07	810	
	182.90 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:18:32	811	
	195.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:05	812	
	195.00	Roots Medium Lateral, at 9 o'clock, 40 %, within 8 inch: NO	00:19:20	813	M 3
	263.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:35	814	

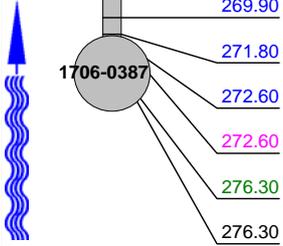




Inspection report

Date: 20090409	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 22	PSR: 65859
Total Pipe Length: 343.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/02/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

1:264	position	observation	MPEG	photo	grade
	<u>269.90</u>	Fracture Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:22:25	815, b	S 2
	<u>271.80</u>	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO	00:22:51	817	M 2
	<u>272.60</u>	Fracture Circumferential, from 3 to 10 o'clock, within 8 inch: YES	00:23:15	818	S 2
	<u>272.60</u>	Broken, from 8 to 10 o'clock, within 8 inch: YES	00:23:34	819, b	S 4
	<u>276.30</u>	Vermin Cockroach, within 8 inch: NO	00:24:17	821	M 1
	<u>276.30</u>	Manhole, within 8 inch: NO, Remarks: 1706-0387	00:24:30	822	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4122	4233	10	24	34	2	2.4	2.27



Inspection report

Date: 20090408	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 6	PSR: 65964
Total Pipe Length: 264.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/02/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: MEHDEN AV	Flow Control: Not Controlled	Start MH: 1706-0367
City: CAR	Year Renewed	End MH: 1706-0381
Location Code: Light Highway	Tape/Media #: M313-047	pipe length: 269.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0367/1706-0381/1706	Lining Method:
	Category:

Remark::

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0367	00:00:24	145	
	3.00	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:01:00	146, b	S 1
	3.00	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:01:22	148	
	3.00	Water Level, 10 %, within 8 inch: NO	00:01:36	149	M 2
	5.90	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:02:03	150, b	S 2
	10.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:39	152	
	10.40	Crack Circumferential, from 6 to 9 o'clock, within 8 inch: YES	00:03:00	153	S 1
	53.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:38	154	
	134.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:32	155	
	151.20	Crack Circumferential, from 7 to 11 o'clock, within 8 inch: YES	00:08:24	156, b	S 1
	151.20	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:08:39	158, b	S 2
	152.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:03	160	
	153.90	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:09:34	161, b	S 1
	197.60	Crack Circumferential, from 4 to 5 o'clock, within 8 inch: YES	00:11:26	163, b	S 1
	209.00	Fracture Circumferential, from 12 to 5 o'clock, within 8 inch: NO	00:12:28	165, b	S 2
	209.80	Broken Void Visible, from 10 to 2 o'clock, within 8 inch: YES	00:13:12	167, b	S 5
	210.00	Fracture Circumferential, from 1 to 6 o'clock, within 8 inch: YES	00:13:50	170, b	S 2
	239.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:18	172	
	269.40	Manhole, within 8 inch: NO, Remarks: 1706-0381	00:16:47	173	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5124	2100	18	2	20	1.8	2	1.82



Inspection report

Date: 20090501	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 882	PSR: 60965
Total Pipe Length: 350.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 04/30/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

Street: 236TH ST	Flow Control: Not Controlled	Start MH: 1761-0310
City: CAR	Year Renewed:	End MH: 1761-0311
Location Code: Light Highway	Tape/Media #: G312-001	pipe length: 353.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0310/1761-0311/1761	Lining Method:
	Category:

Remark::

1:800	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1761-0310	00:00:39	46	
	0.00	Water Level, within 8 inch: NO	00:00:53	47	M 2
	10.00	Water Level, 5 %, within 8 inch: NO	00:01:09	48	M 2
	13.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:37	49	
	71.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:22	50, b	S 3
	81.40	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:04:33	52, b	S 1
	103.10	Tap Factory Abandoned, at 3 o'clock, 4", within 8 inch: NO	00:05:25	54	
	232.60	Crack Circumferential, from 6 to 10 o'clock, within 8 inch: YES	00:08:25	55, b	S 1
	248.10	Broken, from 4 to 9 o'clock, within 8 inch: YES	00:09:36	57, b	S 5
		353.60	Manhole, within 8 inch: NO, Remarks: 1761-0311	00:12:36	59

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2200	10	4	14	2.5	2	2.33



Inspection report

Date: 20090505	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2468	PSR: 61118
Total Pipe Length: 336.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1761

Street: LINCOLN ST	Flow Control: Not Controlled	Start MH: 1761-0074
City: CAR	Year Renewed	End MH: 1761-0066
Location Code: Light Highway	Tape/Media #: A315-048	pipe length: 344.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0066/1761-0074/1761	Lining Method:
	Category:

Remark::

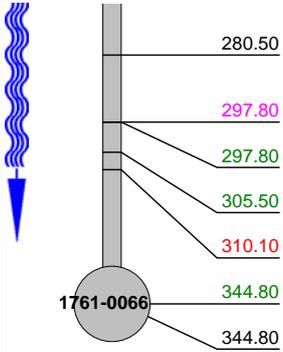
1:594	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1761-0074	00:00:41	12554	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:52	12555	M 1
	5.50	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO	00:01:30	12556	
	6.00	Water Level, 5 %, within 8 inch: NO	00:02:09	12557	M 2
	6.00	Water Mark, 10 %, within 8 inch: NO	00:02:23	12558	M 2
	9.00	Crack Circumferential, from 6 to 6 o'clock, within 8 inch: NO	00:02:50	12559, b	S 1
	25.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:16	12561	
	25.50	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:04:27	12562	M 1
	42.60	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:05:33	12563, b	S 1
	42.60	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:05:47	12565, b	
	44.00	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:06:18	12567	
	68.00	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:07:42	12568	
	70.80	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:08:09	12569	
	107.50	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:09:55	12570	
	109.90	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:10:31	12571	
	117.80	Crack Circumferential, from 10 to 5 o'clock, within 8 inch: YES	00:11:15	12572, b	S 1
	153.10	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:13:08	12574	
	155.60	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:13:34	12575	
	192.50	Tap Factory Defective, at 10 o'clock, 4", within 8 inch: NO	00:15:22	12576, b	M 2
	195.20	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:16:05	12578	
	235.30	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:18:01	12579	
	237.90	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:18:27	12580	
	237.90	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	00:18:44	12581	M 1
	265.40	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:20:08	12582	



Inspection report

Date: 20090505	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 2468	PSR: 61118
Total Pipe Length: 336.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1761

1:594	position	observation	MPEG	photo	grade
	280.50	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:21:08	12583	
	297.80	Broken, from 11 to 1 o'clock, within 8 inch: YES	00:22:14	12584, b	S 4
	297.80	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:22:35	12586, b	S 1
	305.50	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:23:30	12588, b	S 1
	310.10	Broken, from 7 to 3 o'clock, within 8 inch: YES	00:24:13	12590, b	S 5
	344.80	Vermin Cockroach, within 8 inch: NO	00:26:37	12592	M 1
	344.80	Manhole, within 8 inch: NO, Remarks: 1761-0066	00:26:49	12593	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2314	14	10	24	2	1.43	1.71



Inspection report

Date: 20090702	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2615	PSR: 65761
Total Pipe Length: 153.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 07/02/2009	Pre-Cleaned: Jetting	Map Grid #: 1706

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1706-0539
City: CAR	Year Renewed	End MH: 1706-0538
Location Code: Easement/Right of Way	Tape/Media #: G312-023	pipe length: 151.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0538/1706-0539/1706	Lining Method:
	Category:

Remark::

1:350	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0539	00:00:54	672	
	3.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:01:29	673, b	S 3
	3.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:05	675	
	3.50	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:02:21	676	M 1
	5.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:01	677, b	S 3
	5.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:41	679	
	5.80	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:03:50	680	M 1
	6.00	Water Level, 10 %, within 8 inch: NO	00:05:06	681	M 2
	17.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:06:06	682, b	
	17.10	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:06:18	684, b	S 3
	39.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:43	686	
	51.70	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:08:32	687	
	58.30	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:08:56	688	
	82.20	Water Level, 20 %, within 8 inch: NO	00:09:47	689	M 2
	84.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:01	690	
	92.10	Roots Medium Barrel, from 5 to 7 o'clock, 20 %, within 8 inch: NO	00:10:41	691, b	M 4
	92.40	Water Level, 10 %, within 8 inch: NO	00:11:03	693	M 2
	99.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:26	694	
	100.40	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:11:39	695	S 3
	113.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:22	696	
	148.30	Broken, from 7 to 5 o'clock, within 8 inch: YES	00:14:35	697, b	S 5
	148.30	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:14:50	699, b	S 4
	148.30	Deformed, 10 %, within 8 inch: NO	00:15:12	701, b	S 4
	150.50	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:16:05	703	S 4
	151.60	Manhole, within 8 inch: NO, Remarks: 1706-0538, Buried MH	00:16:43	704	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5143	4123	29	12	41	3.63	2	2.93



Inspection report

Date: 20090701	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2604	PSR: 65639
Total Pipe Length: 57.00	Survey Customer: LACDPW	System Owner: CARSON	Clean Date: 06/30/2009	Pre-Cleaned: Heavy Cleaning	Map Grid #: 1706

Street: FIGUEROA ST	Flow Control: Not Controlled	Start MH: 1706-0676
City: CAR	Year Renewed	End MH: 1706-TRNK
Location Code: Sidewalk	Tape/Media #: G312-022	pipe length: 51.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 10"/10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0676/1706-TRNK/1706	Lining Method:
	Category:

Remark::

1:125	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1706-0676	00:00:36	509	
	0.50 S1	Crack Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start	00:01:01	510, b	S 3
	5.00	Water Level, 15 %, within 8 inch: NO	00:02:07	512	M 2
	8.80	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:02:36	513, b	S 2
	12.90	Surface Aggregate Visible Unknown, from 6 to 8 o'clock, within 8 inch: YES	00:03:46	515, b	S 3
	19.00	Water Mark, 20 %, within 8 inch: NO	00:04:20	517	M 2
	24.90	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:05:02	518, b	S 2
	28.00 S2	Crack Longitudinal, at 3 o'clock, within 8 inch: YES, Start	00:05:45	520, b	S 2
	37.40	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:06:34	522, b	S 2
	46.70 F2	Crack Longitudinal, at 3 o'clock, within 8 inch: YES, End	00:07:19	524	S 2
	47.60	Broken Soil Visible, from 10 to 12 o'clock, within 8 inch: YES	00:08:15	525, b	S 5
	47.60	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:08:55	528, b	S 4
	47.60	Deformed, 10 %, within 8 inch: NO	00:09:22	530, b	S 4
	48.50	Intruding Sealing Grout, from 7 to 5 o'clock, 10 %, within 8 inch: YES	00:10:36	532, b	M 2
	48.50	Joint Separated Medium, within 8 inch: YES	00:10:51	534, b	S 1
	48.50	Alignment Left, 10 %, within 8 inch: NO	00:11:17	536, b	M 1
	48.50	Material Change, within 8 inch: NO, Remarks: PVC	00:11:49	538	
	49.00	Water Level, 10 %, within 8 inch: NO	00:12:05	539	M 2
	51.50	Alignment Down, 25 %, within 8 inch: NO	00:12:35	540, b	M 4
	51.60	General Observation, within 8 inch: NO, Remarks: Mat'l also found: PVC	00:13:55	542	
	51.70 F1	Crack Multiple, from 7 to 6 o'clock, within 8 inch: YES, End	00:13:06	543	S 3
	51.70	Manhole, within 8 inch: NO, Remarks: 1706-TRNK, line drops in	00:13:34	544	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	4124	33	13	46	2.75	2.17	2.56



Inspection report

Date: 20090414	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Martin Garcia	section number: 49	PSR: 61140
Total Pipe Length: 69.00	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 04/09/2009	Pre-Cleaned: Jetting	Map Grid #: 1761

Street: 238TH ST	Flow Control: Not Controlled	Start MH: 1761-0102
City: CAR	Year Renewed:	End MH: 1761-0103
Location Code: Light Highway	Tape/Media #: M313-051	pipe length: 106.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0102/1761-0103/1761	Lining Method:
	Category:

Remark::

1:250	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1761-0102	00:00:28	1589	
	5.00	Water Level, 10 %, within 8 inch: NO	00:01:14	1590	M 2
	5.90	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:01:25	1591, b	
	5.90	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:01:39	1593, b	S 2
	10.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:09	1595	
	27.10	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:02:48	1596, b	
	30.40	Crack Circumferential, from 6 to 9 o'clock, within 8 inch: YES	00:03:13	1598, b	S 1
	39.60	Roots Fine Joint, from 7 to 11 o'clock, within 8 inch: YES	00:03:54	1600, b	
	42.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:25	1602, b	
	45.80	Roots Fine Joint, from 7 to 3 o'clock, within 8 inch: YES	00:04:53	1604, b	
	75.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:02	1606	
	75.30	Roots Medium Lateral, at 3 o'clock, 45 %, within 8 inch: NO	00:06:17	1607	M 3
	76.10	Fracture Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:06:57	1608, b	S 2
	76.10	Deformed, 20 %, within 8 inch: NO	00:07:56	1610, b	S 5
	76.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:08:08	1612, b	
	76.10	Broken, from 8 to 11 o'clock, within 8 inch: YES	00:08:26	1614, b	S 4
	77.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:55	1616	
	77.50	Fracture Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:09:19	1617, b	S 2
	90.70	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:10:21	1619, b	
	93.90	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:10:46	1621, b	S 1
	106.50	Manhole, within 8 inch: NO, Remarks: 1761-0103	00:11:40	1623	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3121	17	5	22	2.43	2.5	2.44