



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

IN REPLY PLEASE

REFER TO FILE: **SM-1**

January 23, 2012

Mr. Douglas Prichard, City Manager
City of Rolling Hills Estates
4045 Palos Verdes Drive
North Rolling Hills Estates, CA 90274

Attention Mr. Greg Grammer

Dear Mr. Prichard:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0910A**

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 15,968 feet or 9.6 percent of the City of Rolling Hills Estates' 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)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Douglas Prichard
January 23, 2012
Page 2

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, where appropriate, 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 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



per KEITH E. LEHTO
Assistant Deputy Director
Sewer Maintenance Division

HK HK:gy
H:\SMHOME\GYoung\Memos.Letters\2328.doc

Enc.

bc: Programs Development (Manning)
KL, MM, RS, FV, File (Project Y0TV0910A), SPINDLE

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

| | | | |
|-------------------|--------------|--------------|----------------|
| PROJECT NAME: | Y0TV0910A | PROJECT MGR: | Eric Liu |
| PROJECT DATE: | 07/10/2009 | CONTACT NO: | (626) 300-3369 |
| SUP. DISTRICT(s): | 4 | MAP PAGE(S): | 1545 |
| Report By: | Hanna Kebede | Report Date: | 09/14/2011 |

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 15,968 feet or 9.6 percent of the City of Rolling Hills Estates' 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 Y0TV0910A included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Agoura Hills, Rancho Palos Verdes, Rolling Hills Estates, and Westlake Village. 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 86.9 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 13.1 percent of the inspected pipe segments within the City of Rolling Hills Estates 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 | 12,548 | 78.5 | 51 |
| 2: Good | 1,341 | 8.4 | 6 |
| 3: Fair | 919 | 5.8 | 3 |
| 4: Poor | 1,160 | 7.3 | 4 |
| 5: Immediate Attention | 0 | 0 | 0 |
| TOTAL | 15,968 | 100.0 | 64 |

Our inspection revealed that high water levels and infiltration were not detected in any pipe segment in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 98.8 percent of the inspected pipe segments within the City of Rolling Hills Estates were free of severe structural defects. However, the remaining 1.2 percent of the inspected pipe segments had a PACP structural grade of 5 as indicated in the Quick Structural Rating Table shown below. However, this item does not pose any structural concerns; therefore, no action is required. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. A copy of the actual inspection report for this segment is included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|------------------------|-------------------------|--|---------------------|
| 1: Excellent | 15,782 | 98.8 | 63 |
| 2: Good | 0 | 0 | 0 |
| 3: Fair | 0 | 0 | 0 |
| 4: Poor | 0 | 0 | 0 |
| 5: Immediate Attention | 186 | 1.2 | 1 |
| TOTAL | 15,968 | 100.0 | 64 |

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 Rolling Hills Estates according to the following schedule.

| FISCAL YEAR | PROJECT NAME | LENGTH (FT) | PERCENTAGE OF SYSTEM | STATUS |
|--------------------|---------------------|--------------------|-----------------------------|---------------|
| 2008-2009 | Y0TV0809D | 100,652 | 60.3 | COMPLETED |
| 2009-2010 | Y0TV0910A | 15,968 | 9.6 | COMPLETED |
| 2011-2012 | Y0TV1112D | 50,335 | 30.1 | FUTURE |
| TOTAL | | 166,955 | 100.0 | |

ENCLOSURE 1:

Project Overview Map

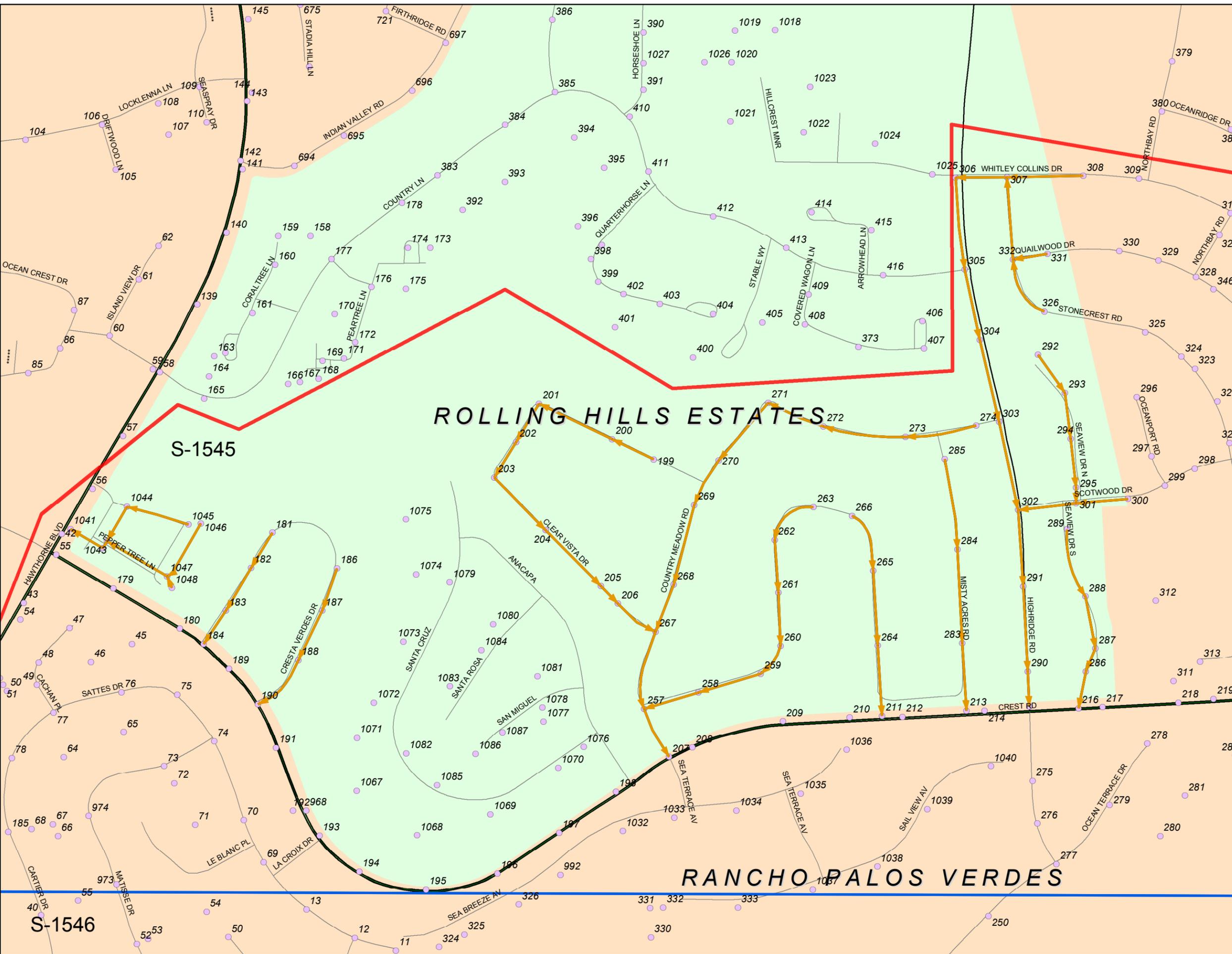
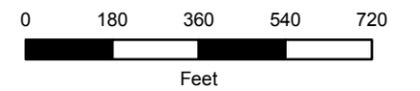
OVERVIEW MAP

CCTV PROJECT

Rolling Hills Estates

Y0TV0910A

Supervisorial District 1,3 & 4
Cities of Agoura Hills,
Rolling Hills Estates,
Westlake Village,
Rancho Palos Verdes &
Unincorporated County



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

SMD Manholes

⊙ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

P SMD Pump Stations

WTP SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0910A

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SEPTEMBER 2011

ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Lateral Deficiency List
- Sample Lateral Notice Letter
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CITY OF ROLLING HILLS ESTATES (Y0TV0910A)
 as of 07/10/09

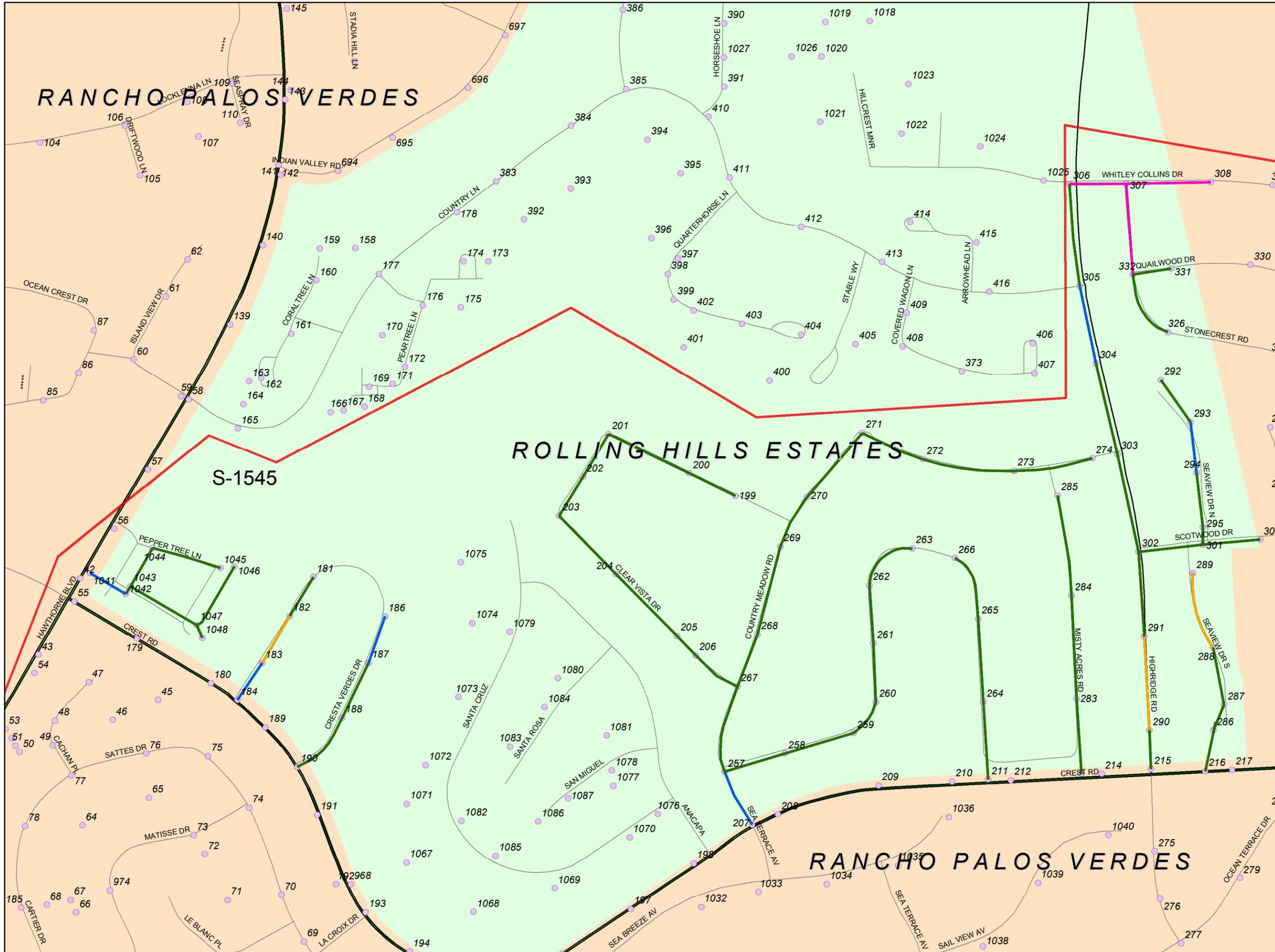
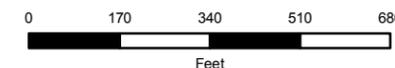
| Item No. | QMR | Start MH | End MH | Street | Observation: Location | Corrective Action Taken (Date Completed) |
|----------|------|-----------|-----------|--------------------|--|---|
| 1 | 4417 | 1545-0308 | 1545-0307 | WHITLEY COLLINS DR | Root ball (lateral): 8',235',278' & 340' | Lateral notice will be sent to property owner. |
| 2 | 4332 | 1545-0332 | 1545-0307 | STONECREST RD | Roots: 189'; root ball (lateral): 77',140',242' & 285' | Hydrojet (05/03/11); Lateral notice will be sent to property owner. |
| 3 | 412F | 1545-0183 | 1545-0182 | CRESTA VERDES DR | Deposits (encrustation): 106'-239' | Hydrojet (05/03/11) |
| 4 | 4112 | 1545-0307 | 1545-0306 | WHITLEY COLLINS DR | Root ball (lateral): 52' | Lateral notice will be sent to property owner. |
| 5 | 3121 | 1545-0288 | 1545-0289 | SEAVIEW DR S | Deposits: 292'-304' | Hydrojet (05/03/11) |
| 6 | 3111 | 1545-0291 | 1545-0290 | HIGHRIDGE RD | Roots (lateral): 42' | Lateral notice will be sent to property owner. |

ENCLOSURE 2

CCTV PROJECT YOTV0910A

ROLLING HILLS ESTATES

QUICK MAINTENANCE RATING (QMR)



Legend

- SMD Sanitary Sewers**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR

SMD Manholes

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

- Maintained by Others:**
- Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
 - SMD Operations Maps
 - CCTV PROJECT AREA

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

May 26, 2011

IN REPLY PLEASE

REFER TO FILE:

SM-1

Glenn Jeanes
1570 Morada Place
Altadena, CA 91001

Dear Mr. Jeanes:

SEWER LATERAL ROOT INTRUSION 1570 MORADA PLACE, 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 1570 Morada Place, 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

Glenn Jeanes
May 26, 2011
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

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 fvillaluna@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

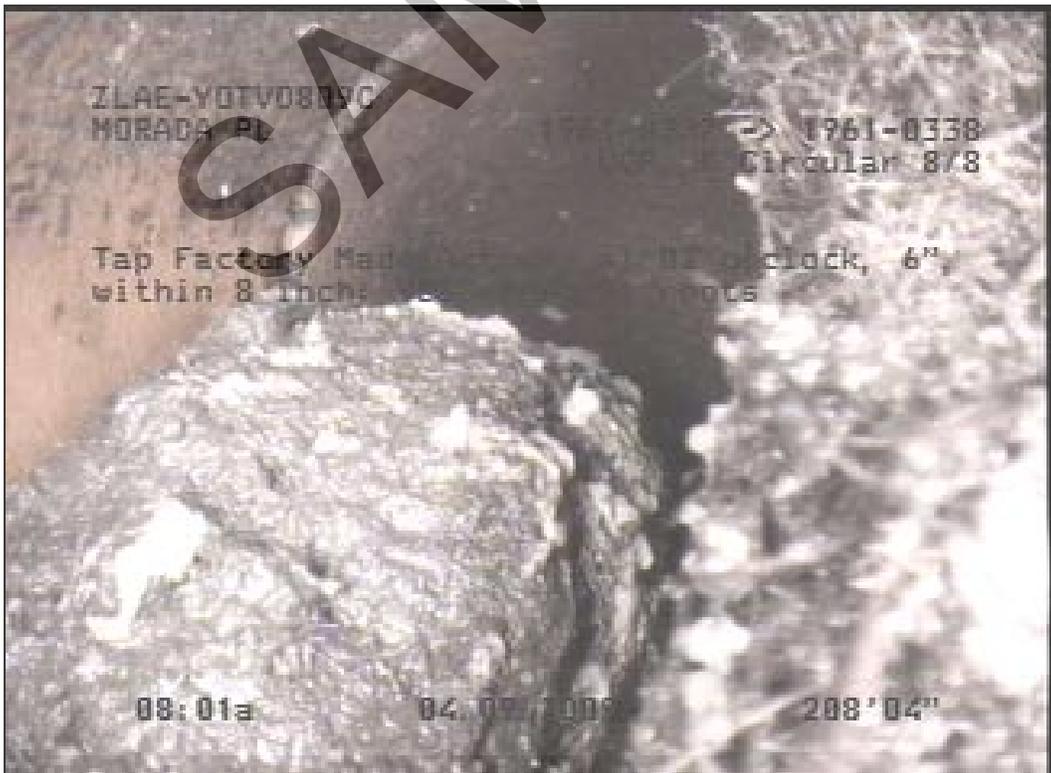
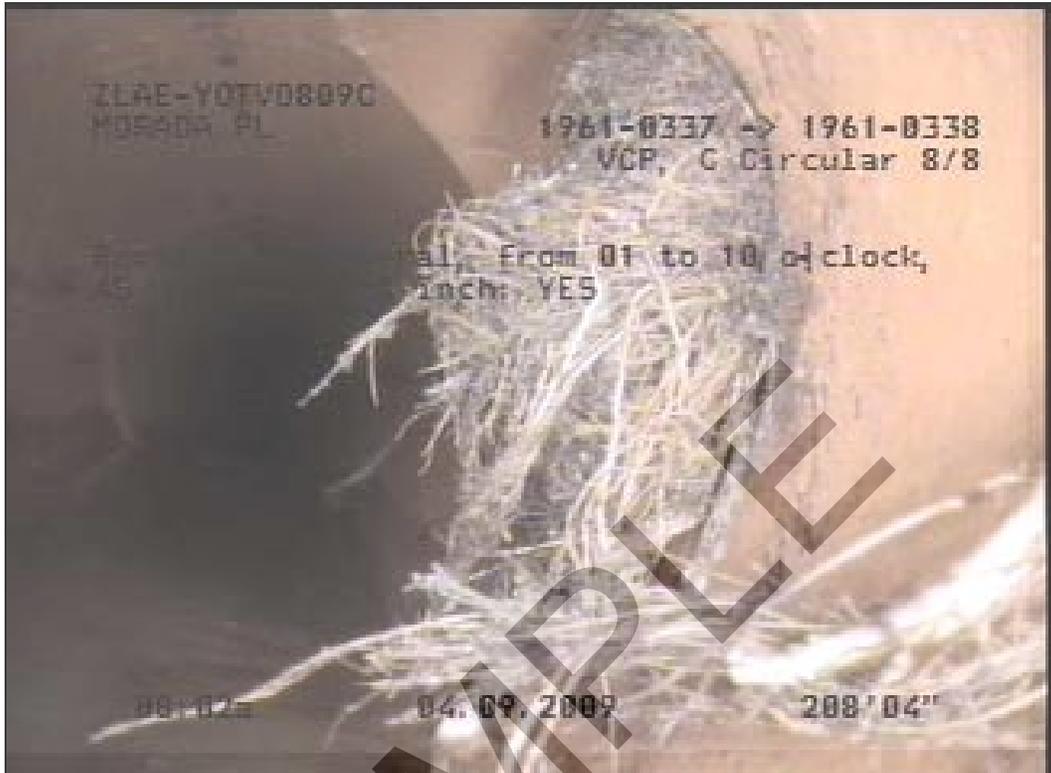
KEITH LEHTO
Assistant Deputy Director
Sewer Maintenance Division

EL:

Enc.

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

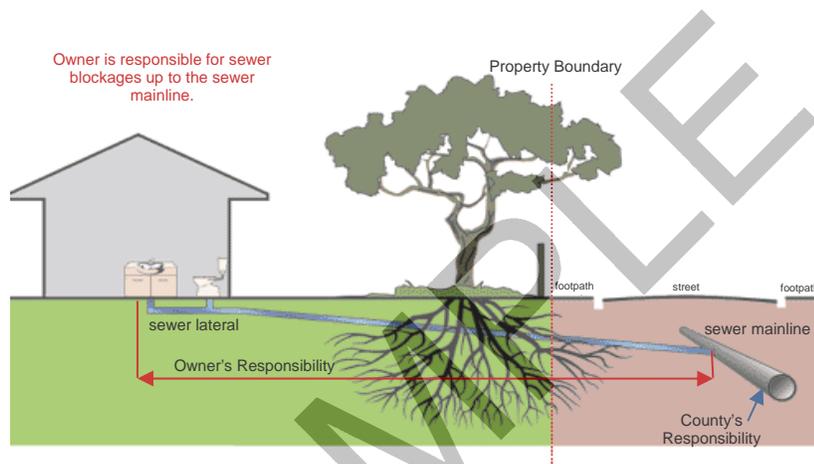
1570 MORADA PLACE
ALTADENA
Roots at Lateral Connection



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 LATERALS – AREAS OF RESPONSIBILITY



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 ROLLING HILLS ESTATES (Y0TV0910A)
as of 07/10/09

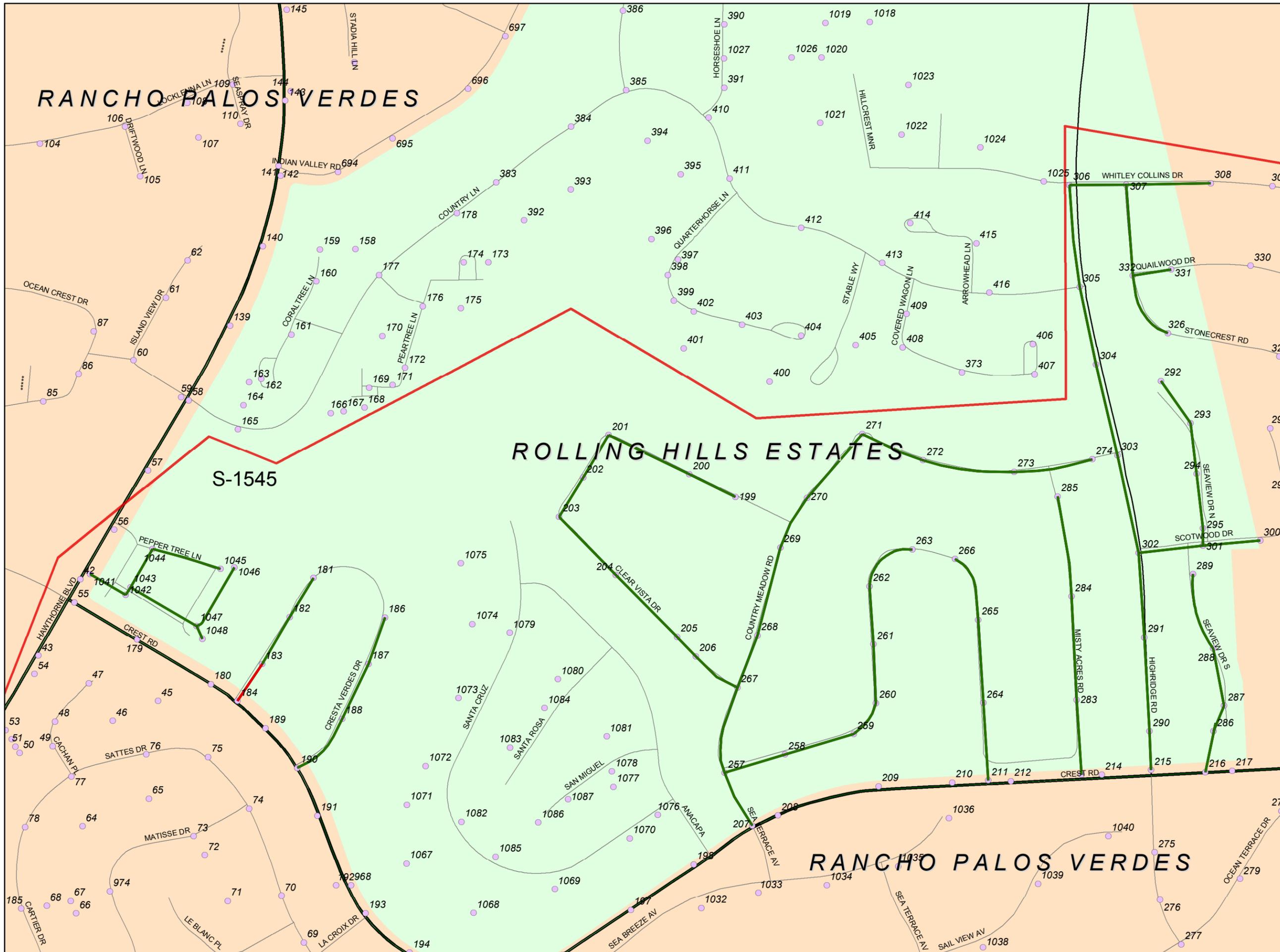
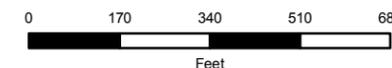
| Item No. | QSR | Start MH | End MH | Street | Observation: Location | Proposed Corrective Method | Length of Repair (FT) |
|-----------------|------------|-----------------|---------------|------------------|------------------------------|---|------------------------------|
| 1 | 5131 | 1545-0183 | 1545-0184 | Cresta Verdes Dr | Broken: 1' | Structural integrity in tact. No action needed. | |

ENCLOSURE 3

CCTV PROJECT YOTV0910A

ROLLING HILLS ESTATES

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

- 1: EXCELLENT (Green line)
- 5: IMMEDIATE ATTENTION (Red line)

SMD Manholes

- Other (Circle with dot)
- Standard (Purple dot)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with cross)

SMD Pump Stations

SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines (Thick green line)
- Non SMD Sanitary Sewers (Dashed green line)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- CCTV PROJECT AREA (Red outline)

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ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|--------------------------------|----------------------------|
| Date: 20100219 | P.O.#: Y0TV0910A | Weather: Dry | Surveyed By: Gilbert Contreras | section number: 1183 | PSR: 76210 |
| Total Pipe Length: 186.00 | Survey Customer: LACDPW | System Owner: RHE | Clean Date: 02/18/2010 | Pre-Cleaned: Jetting | Map Grid #: 1545 |

| | | |
|-------------------------------------|-------------------------------------|------------------------------|
| Street: CRESTA VERDES DR | Flow Control: Not Controlled | Start MH: 1545-0183 |
| City: RHE | Year Renewed | End MH: 1545-0184 |
| Location Code: Light Highway | Tape/Media #: G312-007 | pipe length: 202.9 ft |

| | |
|--|--|
| Reason for inspection: Routine Assessment | Dia/Height: Circular 8" |
| Use of Sewer: Sanitary | Material: Vitrified Clay Pipe Pipe Length: 5.0 |
| Drain. Area: 0183/1545-0184/1545 | Lining Method: |
| | Category: |

Remark::

| 1:475 | position | observation | MPEG | photo | grade |
|-------|------------------|---|----------|---------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1545-0183 | 00:00:35 | 1990 | |
| | 1.00 | Broken, from 7 to 4 o'clock, within 8 inch: YES | 00:01:22 | 1991, b | S 5 |
| | 6.00 | Water Level, 10 %, within 8 inch: NO | 00:02:21 | 1993 | |
| | 6.00 S1 | Deposits Attached Encrustation, from 4 to 8 o'clock, 10 %, within 8 inch: NO, Start | 00:03:13 | 1994, b | M 2 |
| | 28.40 | Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO | 00:04:37 | 1996 | |
| | 59.40 | Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO | 00:05:56 | 1997 | |
| | 102.30 | Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES | 00:08:07 | 1998, b | S 3 |
| | 113.10 | Water Level, 15 %, within 8 inch: NO | 00:09:00 | 2000 | |
| | 117.30 | General Observation, within 8 inch: NO, Remarks: LINE RE-CLEANED | 00:37:55 | 2001 | |
| | 174.70 F1 | Deposits Attached Encrustation, from 4 to 8 o'clock, 10 %, within 8 inch: NO, End | 00:39:43 | 2002 | M 2 |
| | 202.90 | Manhole, within 8 inch: NO, Remarks: 1545-0184 | 00:41:08 | 2003 | |

| | | | | | | | |
|------|------|-----|-----|-----|------|------|------|
| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
| 5131 | 2H00 | 8 | 84 | 92 | 4 | 2 | 2.09 |