TO Mr Nicholas Agbobu

Engineering, Budget, and Office Operations

FROM: Robert Swartz

Field Operations

## CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0607C

This memo is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 9,475 feet or approximately 0.5 percent of the sewer system within Unincorporated County maintained by the District's Central Yard

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

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

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

PK.

W\\1 CCTV\Y0TV0607 Projects\Y0TV0607C\9-Final\_Reports\_by\_JUR\ZLAC\Memo\_0607C\_ZLAC.doc

Attach

bc: RS, FV, File (Y0TV0607C)

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

PROJECT NAME: Y0TV0607C PROJECT MGR: Kari Eskridge PROJECT DATE: 02 01 107 06 04 107 CONTACT NO: (626) 300-3390

SUP. DISTRICT(s): 1 MAP PAGE(S): 1970,1971,2023,2024 □ 2076

Report By: Phyo Kyaw Report Date: 06 01 09

#### INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 9,475 feet or approximately 0.5 percent of the Unincorporated Los Angeles County sewer system maintained by the District Central Yard.

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

#### PROJECT AREA AND DESCRIPTION

Project Y0TV0607C included sewer lines located in both Unincorporated County of Los Angeles area and the City of Pico Rivera. Enclosed for your reference is an overview map of the project area (Enclosure 1).

#### **DEFECT GRADE DESCRIPTION**

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

| Grade | Description  | Estimate time to Failure                               |
|-------|--|--|
| 1:    | <b>EXCELLENT: Minor Defects.</b>   | 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 90.6 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 9.4 percent of the inspected pipe segments within the Unincorporated County of Los Angeles area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment.

#### **QUICK MAINTENANCE RATING TABLE**

| DEFECT<br>GRADE        | PIPE<br>LENGTH<br>(FT) | PERCENT TOTAL<br>INSPECTED PIPE<br>LENGTH | NO. SEGMENTS |
|------------------------|------------------------|---|--------------|
| 1: Excellent           | 333                    | 3.5                                       | 2            |
| 2: Good                | 7,680                  | 81.1                                      | 35           |
| 3: Fair                | 566                    | 6.0                                       | 2            |
| 4: Poor                | 600                    | 6.3                                       | 3            |
| 5: Immediate Attention | 296                    | 3.1                                       | 1            |
| TOTAL                  | 9,475                  | 100.0                                     | 43           |

#### STRUCTURAL REPORT

Our inspection revealed that approximately 98.1 percent of the inspected pipe segments within the Unincorporated County of Los Angeles were free of severe structural defects. However, the remaining 1.9 percent of the inspected pipe segments had a PACP structural grade of 5 as indicated in the Quick Structural Rating Table shown below. The only segment in the Quick Structural Rating Report Priority List (Enclosure 3) had been addressed and repaired by the District maintenance crew. 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.

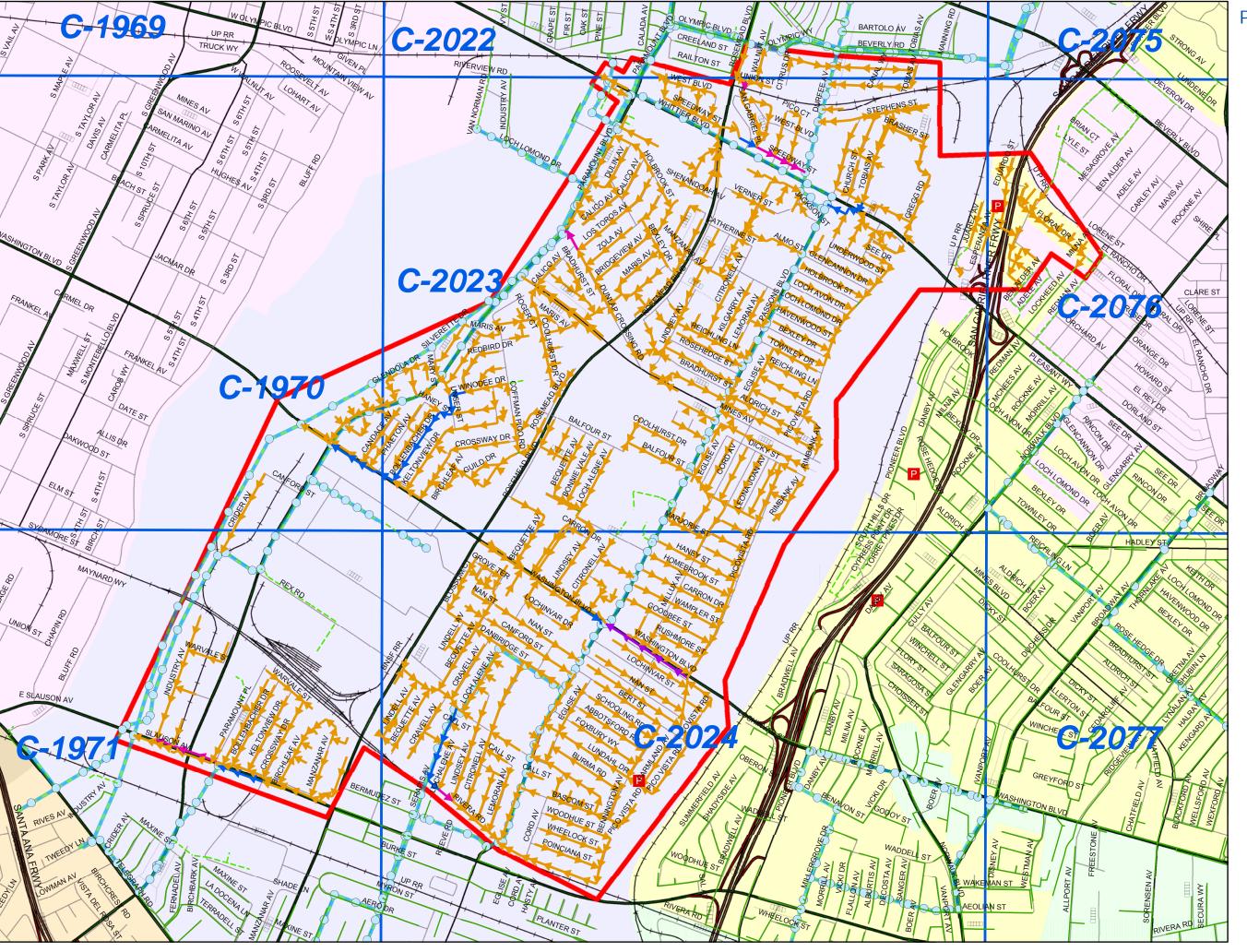
#### **QUICK STRUCTURAL RATING TABLE**

| DEFECT<br>GRADE           | PIPE<br>LENGTH<br>(FT) | PERCENT TOTAL<br>INSPECTED PIPE<br>LENGTH | NO. SEGMENTS |
|---------------------------|------------------------|---|--------------|
| 1: Excellent              | 7,044                  | 74.3                                      | 31           |
| 2: Good                   | 0                      | 0.0                                       | 0            |
| 3: Fair                   | 2,252                  | 23.8                                      | 11           |
| 4: Poor                   | 0                      | 0.0                                       | 0            |
| 5: Immediate<br>Attention | 179                    | 1.9                                       | 1            |
| TOTAL                     | 9,475                  | 100.0                                     | 43           |

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

### **ENCLOSURE 1:**

**Project Overview Map** 

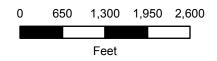


### PROJECT OVERVIEW MAP **CCTV PROJECT** YOTV0607C

Supervisorial District 1 City of Pico Rivera □ County Unincorporated







#### Legend

#### **SMD Sanitary Sewers**

#### **SMD Manholes**

Other

#### MH Type

- Standard
- Siphon
- Trap
- Shallow
- Drop
- SMD Pump Satations
- WTP SMD Treatment Plants

#### **Maintained by Others:**

Trunk Sewerlines

Non SMD Sanitary Sewers

Trunk Mh

Non SMD Maintained MH

SMD Operations Maps

Y0TV0607C

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps□ digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps□. All rights reserved.

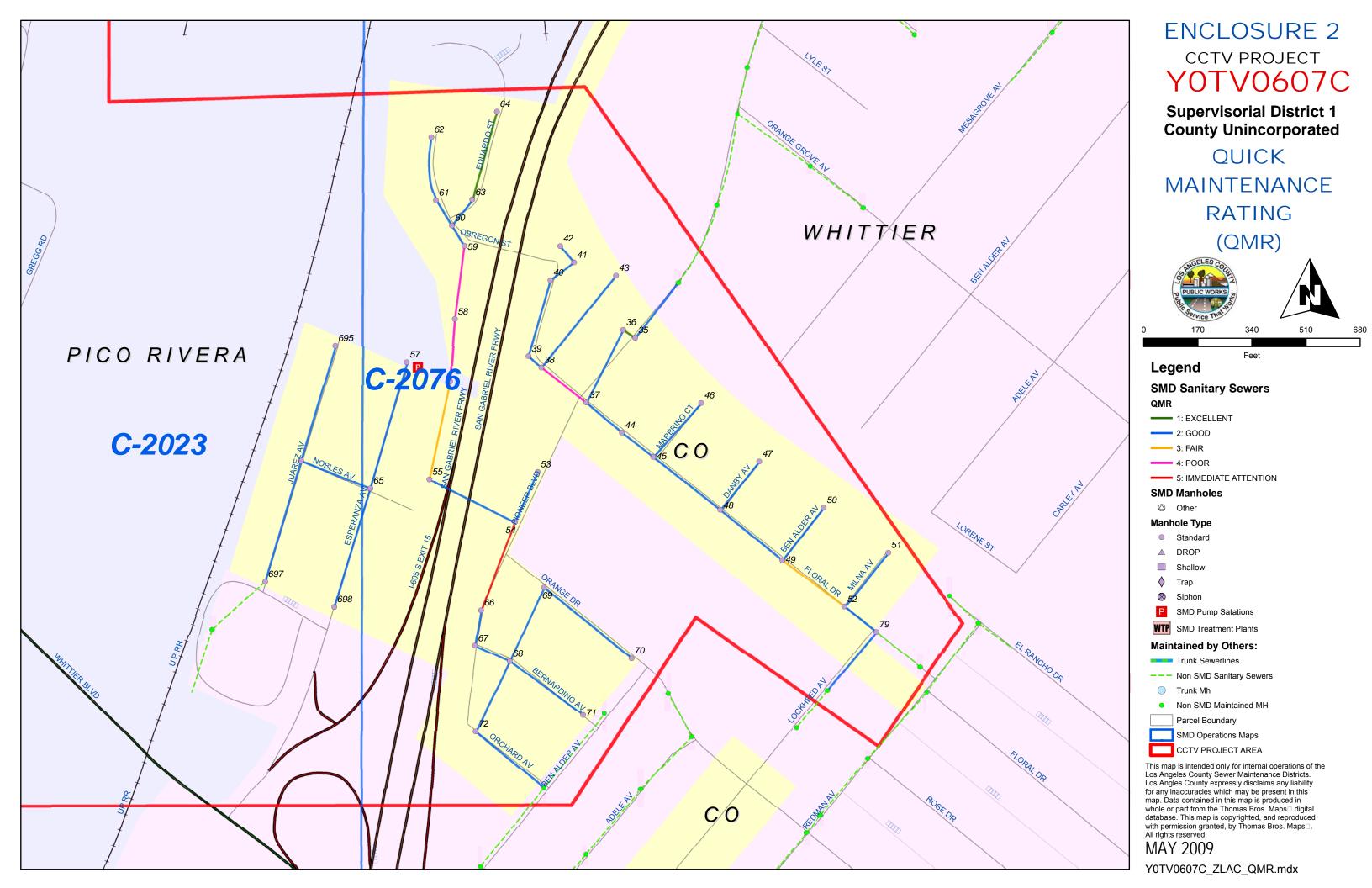
**NOVEMBER 2008** Y0TV0607C\_Overview.mdx

### **ENCLOSURE 2:**

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

# ENCLOSURE 2 QUICK MAINTENANCE RATING REPORT PRIORITY LIST UNINCORPORATED LOS ANGELES COUNTY (Y0TV0607C) as of 06 04 07

| Item<br>No. | QMR  | Start MH  | End MH    | Street                       | Observation     | Corrective Action Taken  |
|-------------|------|-----------|-----------|------------------------------|-----------------|--|
| 1           | 5321 | 2076-0054 | 2076-0066 | PIONEER BV                   | Sag             | Hydrojet (Completed 3 25 09)   |
| 2           | 4131 | 2076-0059 |           | ALLEY by OBREGON and 605 FWY | Deposits; roots | Hydrojet (Completed 4 2 09)  |
| 3           | 4121 | 2076-0038 | 2076-0037 |                              |                 | Emergency Project (Point Repair) by SMD<br>Central Yard: Completed November 2008 |
| 4           | 4121 | 2076-0058 |           | ALLEY by OBREGON and 605 FWY | Roots           | Rodder (Completed 3 31 09)   |

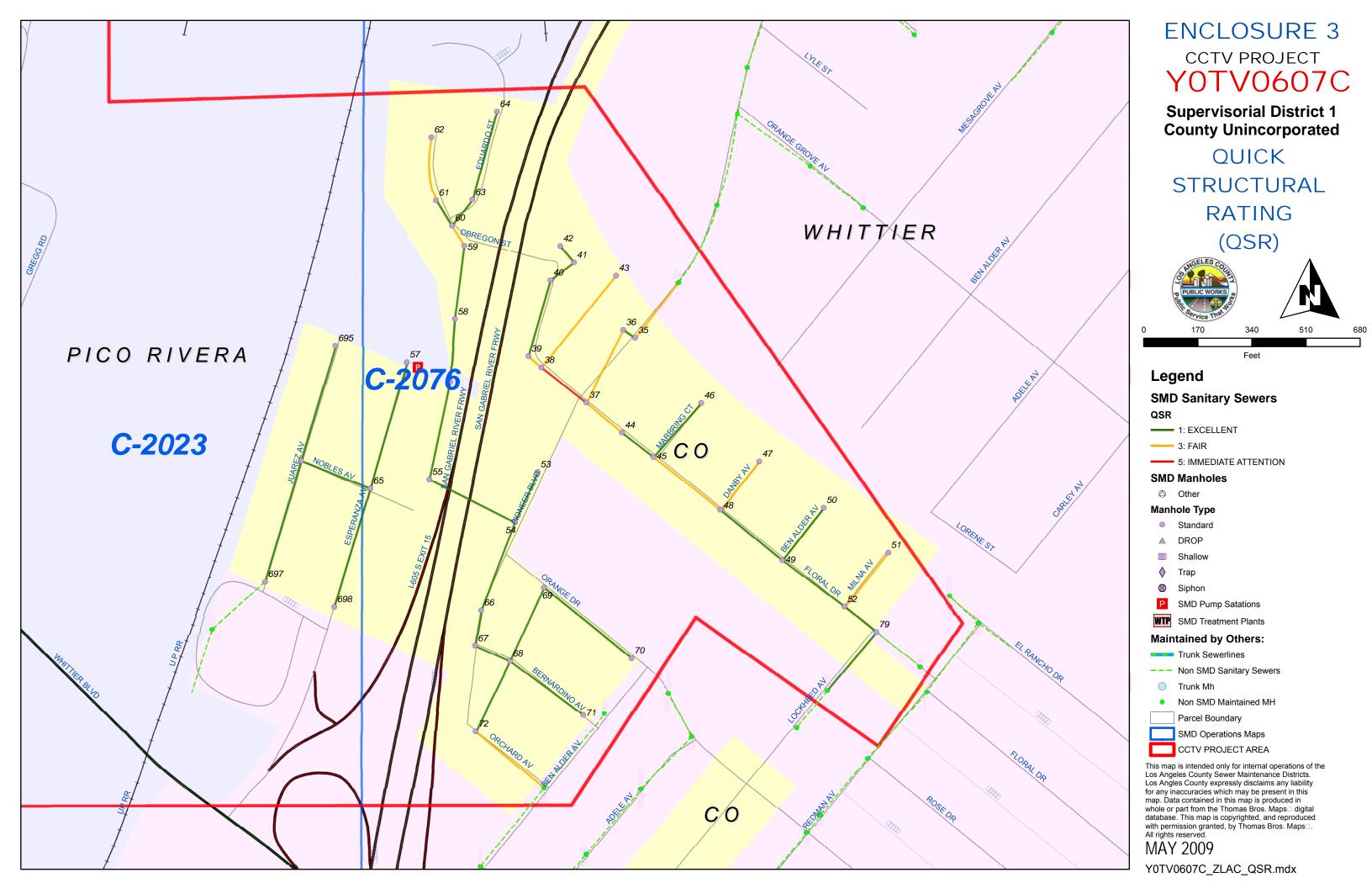


### **ENCLOSURE 3:**

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

# ENCLOSURE 3 QUICK STRUCTURAL RATING REPORT PRIORITY LIST UNINCORPORATED LOS ANGELES COUNTY (Y0TV0607C) as of 06/04/07

| Item<br>No. | No. QSR Start MH End MH Street |           | Street    | Observation: Location | Proposed Corrective Method                           | Length of Repair (FT)                   |  |
|-------------|--------------------------------|-----------|-----------|-----------------------|--|---|--|
| 1           | 5300                           | 2076-0037 | 2076-0038 | OBERGON ST            | Broken and multiple fractures with soil visible: 11' | Emergency Project (Point Repair) by SMD |  |
|             |                                |           |           |                       |  | Central Yard: Completed November 2008   |  |



### **ENCLOSURE 4:**

Infrastructure Inspection Reports for Grades 4 and 5

### Window

#### WinCan America, Inc.

1730 Montano Road NE, Suite E Albuquerque, NM 87107 Tel: (505) 341.0109, Fax: (505) 341.0133

#### **Inspection report**

|  |                    |                  | <u> </u>      | <u>-</u>     |                 |             |
|--|--------------------|------------------|---------------|--------------|-----------------|-------------|
|  |                    | P.O              | Weather:      | Surveyed By: | section number: | PSR:        |
|  | 20070603           | Y0TV0607C        | 1 Dry         | T GLOCK      | 1370            | 119833      |
|  | Total Pipe Length: | Survey Customer: | System Owner: | Clean Date:  | Pre-Cleaned:    | Map Grid □: |
|  | 179                | LACDPW           | ZLAC          | 06/03/2007   | J Jetting       | 2076        |

Street: **OBREGON ST** Flow Control: N Not Controlled Start MH: 2076-0038 City: ZLAC Year Renewed End MH: 2076-0037 Location Code: C Light Highway Tape Media □ 0399 pipe length: 128.5 ft

Reason for inspection: F Routine Assessment Dia Height: C 8/8

Use of Sewer: SS Sanitary

Sanitary Material: VCP Pipe Length: Lining Method:

Drain. Area: 0037/2076-0038/2076 Category:

Remark:: Broken pipe

|           | 1:325              | position                  | observatio  | n                        |                          |                     | MPEG            | photo | grade        |
|-----------|--------------------|---------------------------|-------------|--------------------------|--------------------------|---------------------|-----------------|-------|--------------|
|           |                    |                           |             |                          |                          |                     |                 |       |              |
|           | 2076-0038          | 0.00                      | Upstream N  | Manhole, Survey Beg      | ins                      |                     | 00:01:26        |       |              |
|           |                    | 0.00                      | Water Leve  | el, 2 🗆 of cross section | onal area                |                     | 00:01:42        | 346   | M 2          |
|           |                    | 4.90                      | Crack Multi | ple, from 07 to 05 o     | clock, within 8 inch: Y  | ES                  | 00:02:18        | 347   | S 3          |
|           |                    | 12.90                     | Crack Multi | ple, from 08 to 04 o     | clock, within 8 inch: Y  | ES                  | 00:02:28        | 348   | S 3          |
|           |                    | 22.10                     | Crack Multi | ple, from 08 to 12 o     | clock, within 8 inch: Y  | ES                  | 00:03:09        | 350   | S 3          |
|           |                    | 23.40                     | Tap Factor  | y Made Active, at 02     | o clock, 6", within 8 ii | nch: YES            | 00:03:22        | 349   |              |
|           |                    | 24.70                     | Crack Multi | ple, from 02 to 05 o     | clock, within 8 inch: Y  | ES                  | 00:03:44        | 351   | S 3          |
| <b>\$</b> |                    | 27.80 <b>S1</b>           | Crack Multi | ple, from 08 to 04 o     | clock, within 8 inch: Y  | ES, start           | 00:04:00        | 352   | S 3          |
|           |                    | 70.80                     | Water Leve  | el, Sag in pipe, 20 □    | of cross sectional are   | ea                  | 00:07:38        | 355   | M 2          |
|           |                    | 70.80                     | Water Leve  | el, 10 🗆 of cross sec    | tional area              |                     | 00:07:48        | 356   | M 2          |
| V         |                    | 77.90                     | Tap Factor  | y Made Active, at 03     | o clock, 6", within 8 in | nch: YES            | 00:05:42        | 353   |              |
| ١         |                    | 85.20                     | Roots Fine  | Joint, from 08 to 04     | oclock, within 8 inch:   | YES                 | 00:06:14        | 354   |              |
|           |                    | 103.20                    | Water Leve  | el, 20 🗆 of cross sec    | tional area              |                     | 00:09:27        | 357   | M 2          |
|           |                    | 121.30                    | Roots Fine  | Joint, from 08 to 04     | clock, within 8 inch:    | YES                 | 00:10:17        | 358   |              |
|           |                    | 125.50 <b>S2</b>          | Fracture M  | ultiple, from 08 to 12   | oclock, within 8 inch    | : YES, start        | 00:10:44        | 359   | S 4          |
|           |                    | <u>  128.00</u> <b>S3</b> | Hole Soil V | isible, from 07 to 11    | clock, within 8 inch:    | YES, start          | 00:11:30        | 360   | S 5          |
|           |                    | 128.00                    | Roots Medi  | um Barrell, from 09 t    | o 11 oclock, 5 🛛 , w     | ithin 8 inch: YES   | 00:11:43        | 361   | M 4          |
|           |                    | 128.40 F1                 | Crack Multi | ple, from 08 to 04 o     | clock, within 8 inch: Y  | ES, end             | 00:12:27        |       | S 3          |
|           | H///               | 128.40 F2                 | Fracture M  | ultiple, from 08 to 12   | oclock, within 8 inch    | : YES, end          | 00:12:31        |       | S 4          |
|           |                    | 128.40 <b>F3</b>          | Hole Soil V | isible, from 08 to 11 o  | clock, within 8 inch:    | YES, end            | 00:12:34        |       | S 5          |
|           |                    | 128.50                    | Survey Aba  | indoned, Remark: ca      | mera blocked broker      | pipe                | 00:13:03        | 362   |              |
|           |                    |                           |             |                          |                          |                     |                 |       |              |
|           | QSR<br><b>5242</b> | QMR<br><b>4124</b>        | SPR<br>90   | MPR<br>12                | OPR<br>102               | SPRI<br><b>3.21</b> | MPRI <b>2.4</b> |       | OPRI<br>3.09 |



Remark::

#### WinCan America, Inc.

1730 Montano Road NE, Suite E Albuquerque, NM 87107 Tel: (505) 341.0109, Fax: (505) 341.0133

#### **Inspection report**

| Date:              | P.O.□             | Weather:      | Surveyed By:      | section number:  | PSR:          |
|--------------------|-------------------|---------------|-------------------|------------------|---------------|
| <b>20070530</b>    | <b>YOTV0607-C</b> | 1 Dry         | T. Glock          | 1397             | <b>119833</b> |
| Total Pipe Length: | Survey Customer:  | System Owner: | Clean Date:       | Pre-Cleaned:     | Map Grid □:   |
| 179                | LACOPW            | PRV           | <b>05/30/2007</b> | H Heavy Cleaning | <b>2076</b>   |

|   | Street:       | OBERGON ST        | Flow Control: | N Not Controlled | Start MH:    | 2076-0037 |
|---|---------------|-------------------|---------------|------------------|--------------|-----------|
|   | City:         | ZLAC              | Year Renewed  |                  | End MH:      | 2076-0038 |
| ı | Location Code | : C Light Highway | Tape Media □  | 0399             | pipe length: | 11.1 ft   |

Reason for inspection: F Routine Assessment

Use of Sewer: SS Sanitary

Cckede broken pipe

0038/2076-0037/2076 Drain. Area:

Dia Height: C Circular 8"/8"

Material: VCP Pipe Length: PSR#119833

Lining Method:

Category:

|    | 1:50    | position    | observation                             | MPEG     | photo | grade |
|----|---------|-------------|---|----------|-------|-------|
|    |         |             |   |          |       |       |
|    |         |             |   |          |       |       |
|    |         |             |   |          |       |       |
|    |         |             |   |          |       |       |
|    |         |             |   | 20.04.40 |       |       |
| 20 | 76-0037 | 0.00        | Downstream Manhole, Survey Begins       | 00:01:12 |       |       |
|    |         | <b>0.00</b> | Water Level, 25 of cross sectional area | 00:01:39 | 637   | M 2   |



| QSR  | QMR  | SPR | MPR | OPR | SPRI | MPRI | OPRI |
|------|------|-----|-----|-----|------|------|------|
| 5300 | 3121 | 15  | 5   | 20  | 5    | 2.5  | 4    |

### **ENCLOSURE 5:**

CCTV Sewer Inspection Project Schedule

| FISCAL<br>YEAR | PROJECT<br>NAME | LENGTH<br>(FT) | PERCENTAGE OF SYSTEM | REPORT STATUS |
|----------------|-----------------|----------------|----------------------|---------------|
| 2005-2006      | Y0TV0506A       | 34,270         | 2.0                  | IN PROGRESS   |
| 2006-2007      | Y0TV0607C       | 9,475          | 0.5                  | COMPLETE      |
| 2007-2008      | Y0TV0708B       | 253,485        | 14.7                 | COMPLETE      |
| 2008-2009      | Y0TV0809B       | 5,167          | 0.3                  | IN PROGRESS   |
| 2009-2010      | Y0TV0910B       | 227,947        | 13.2                 |               |
| 2010-2011      |                 | 288,236        | 16.7                 |               |
| 2011-2012      |                 | 304,024        | 17.6                 |               |
| 2011-2012      |                 | 149,936        | 8.7                  |               |
| 2012-2013      |                 | 190,537        | 11.1                 |               |
| 2012-2013      |                 | 16,239         | 1.0                  |               |
| 2014-2015      |                 | 61,341         | 3.6                  |               |
| 2014-2015      |                 | 183,459        | 10.6                 |               |
| TOTAL          |                 | 1,724,116      | 100.0                |               |