



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

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

September 7, 2016

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Ms. Michelle Keith, City Manager
City of Bradbury
600 Winston Avenue
Bradbury, CA 91008

Attention Ms. Claudia Saldana

Dear Ms. Keith:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT – CITY OF BRADBURY

This letter is to inform you that the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed a Sewer Condition Assessment Program of the City of Bradbury's sewer system.

The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8, System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance cleaning schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair or replacement as part of our 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

WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

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Enc.

bc: Programs Development (Yang), RS, **FILE (Project Y0TV1112B)**, SPINDLE

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

PROJECT NAME:	Y0TV1112B	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	10/03/13	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	5	MAP PAGE(S):	2122, 2166
Report By:	Clement Khong	Report Date:	08/29/16

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the condition assessment of 5,855 feet or 54.7 percent of the City of Bradbury's (City) sewer system.

The enclosed Condition Assessment Report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Map, High Water Levels List and Map, and Sample Lateral Notice Letter (Enclosure 2)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining and Point Repair Projects Map (Enclosure 3)

The District previously transmitted a Condition Assessment Report of the balance of your City's sewer system on February 2, 2009. A copy of this report can also be found on the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. The combination of the two reports provide a complete assessment of the City's entire sewer system.

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

PROJECT AREA AND DESCRIPTION

Project No. Y0TV1112B included sewer lines located in the unincorporated County of Los Angeles and the Cities of Bradbury, Duarte, Industry, La Cañada Flintridge, Temple City, and San Dimas. 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 legend of the five possible defect grades is as follows:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 56 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 44 percent of the pipe segments within the City 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 enhanced cleaning schedule with corrective action taken.

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 OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	3,045	52	13
2: Minor to Moderate	234	4	1
3: Moderate	937	16	4
4: Significant	1,405	24	6
5: Most Significant	234	4	1
TOTAL	5,855	100	25

Lateral Notices

Also included in the maintenance inspection reports are private lateral deficiencies discovered during the assessment of 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. Letters have been sent to property owners in your City notifying them of the maintenance issues detected in their laterals. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that one segment exhibited visual signs associated with high water levels due to a sag in the line. The capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicate the camera was underwater or there were sags in the line. A sewer pipe is considered at capacity when 50 percent of the diameter of the sewer pipe is full of water. However, there are conditions in which the Water Level or Water Mark reaches 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer line, or a sag in the line. Therefore, additional review of this pipe segment was conducted to determine if any capacity issues exist.

All sewer pipes where the Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity have been listed 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.

A map showing the sewer line with high water level is provided in Enclosure 2.

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segments in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 84 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 16 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown on page 4. These segments have been placed on a priority list based on the severity and need for action. For items 1 through 4 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement 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. A map showing the sewer lines, which need lining and point repairs, is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	3,981	68	17
2: Minor to Moderate	0	0	0
3: Moderate	937	16	4
4: Significant	234	4	1
5: Most Significant	703	12	3
TOTAL	5,855	100	25

CONDITION ASSESSMENT PROJECTS

The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the City according to the following schedule:

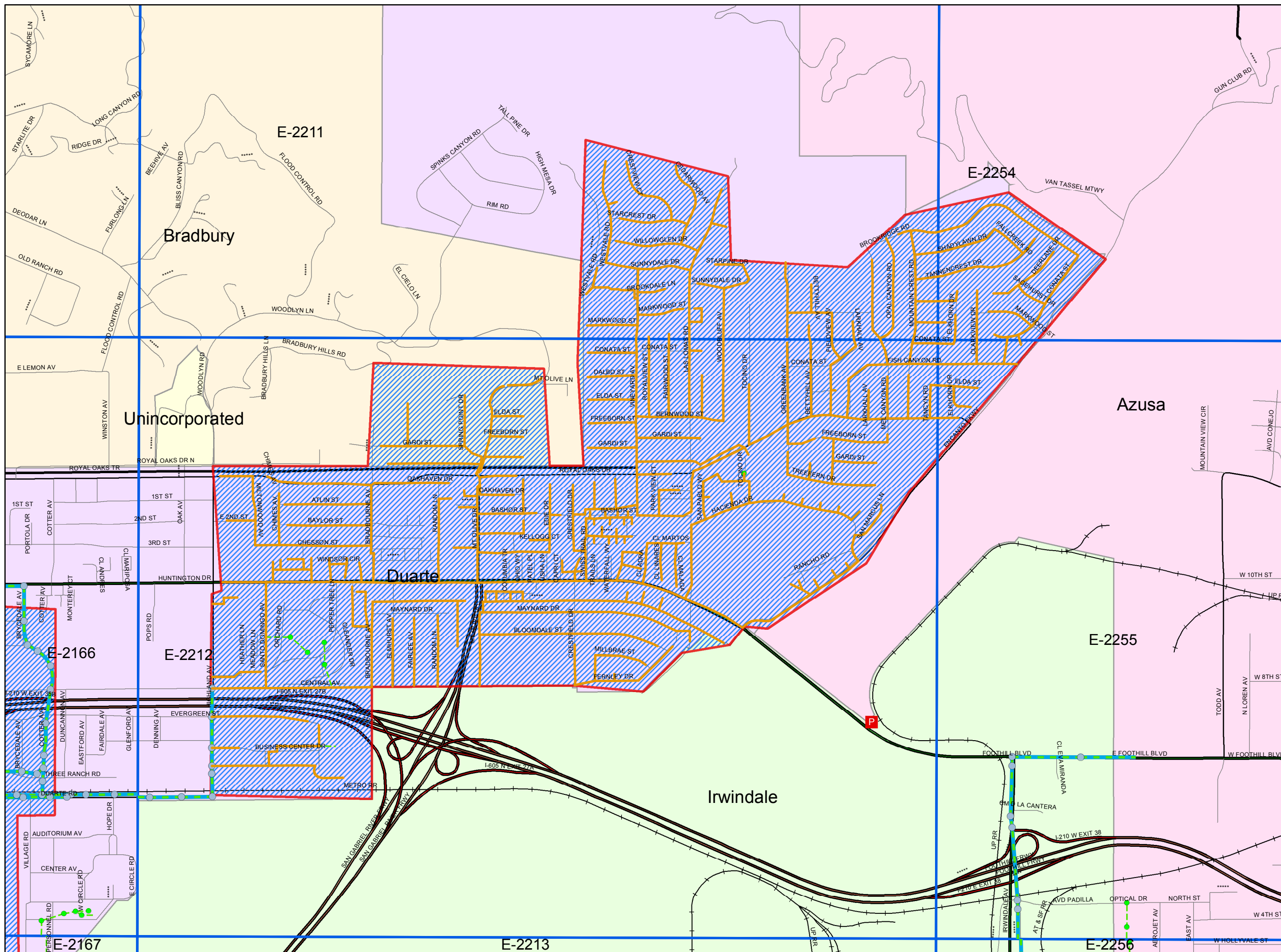
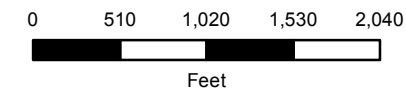
FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-06	Y0TV0506D	4,843	45.3	COMPLETED
2011-12	Y0TV1112B	5,855	54.7	COMPLETED
TOTAL		10,698	100.0	

ENCLOSURE 1

Project Overview Map

ENCLOSURE 1 CCTV PROJECT Y0TV1112B

CITY OF BRADBURY OVERVIEW MAP



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

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

▨ CCTV PROJECT AREA

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September 2016

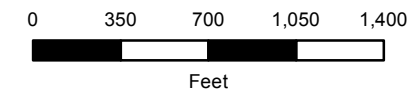
ENCLOSURE 2

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

ENCLOSURE 2
CCTV PROJECT
Y0TV112B

CITY OF
BRADBURY

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

- QMR**
- 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

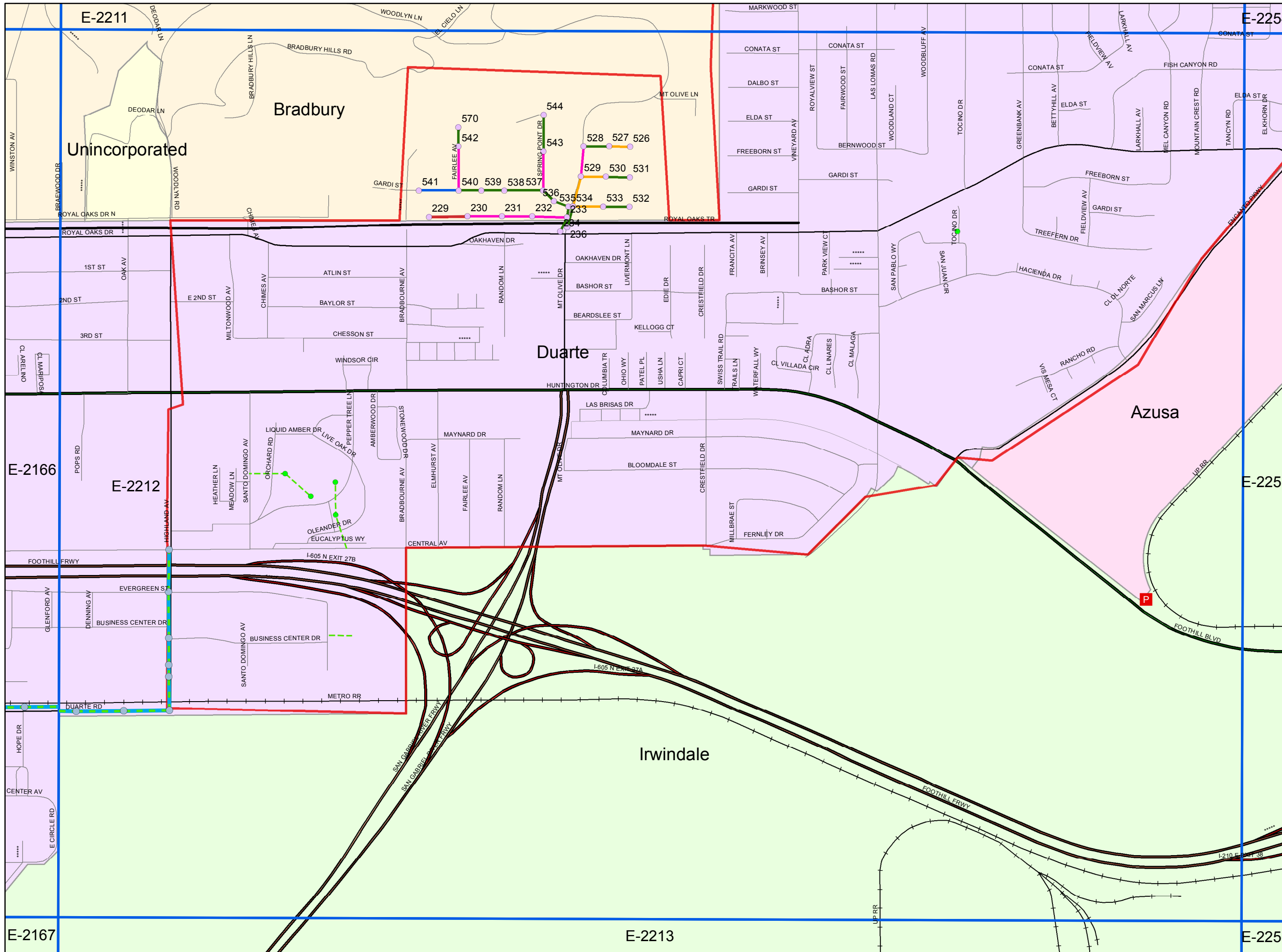
SMD Manholes

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

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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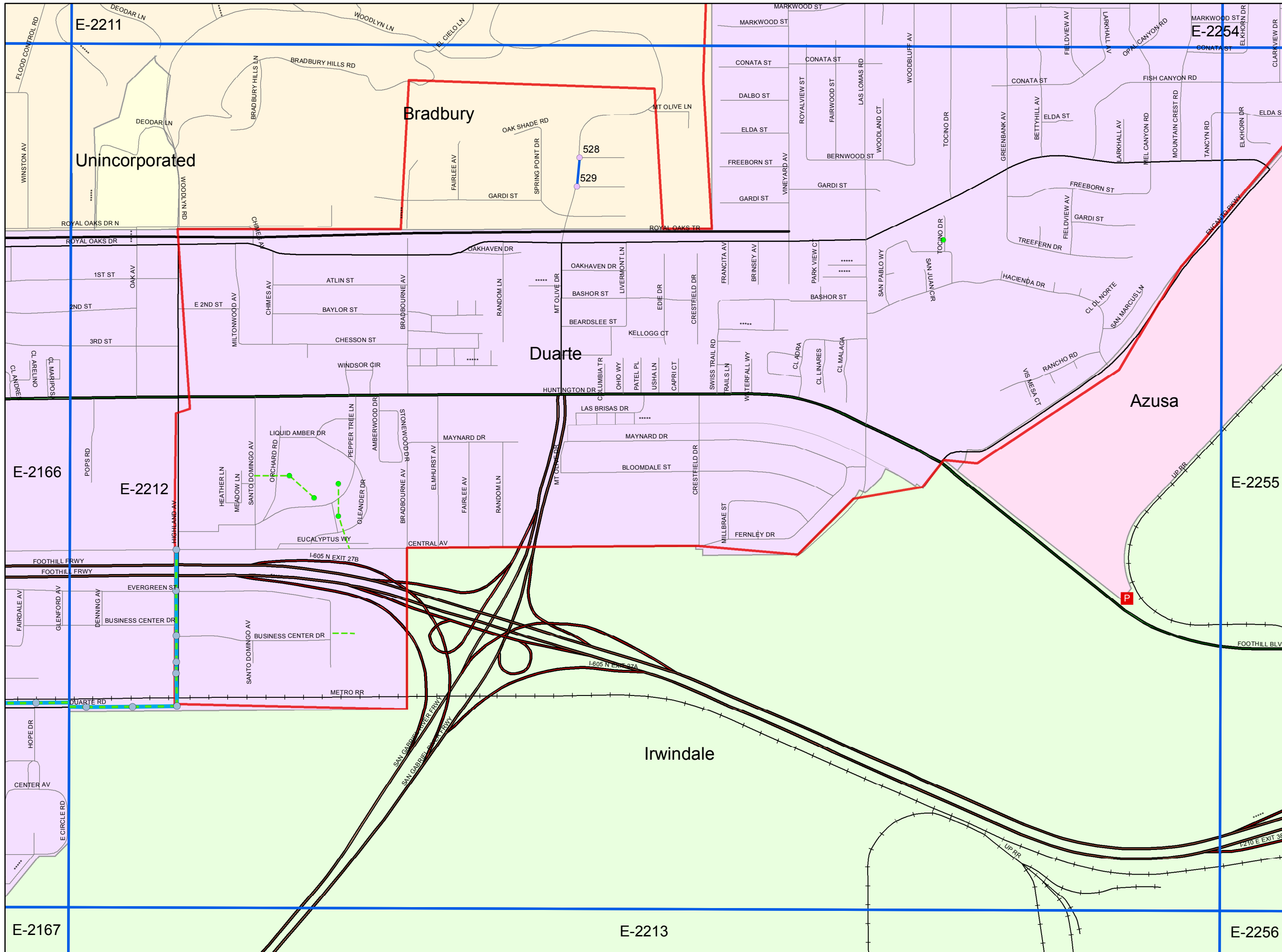
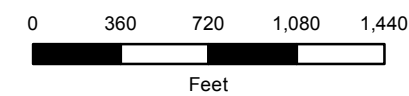
ENCLOSURE 2
HIGH WATER LEVELS
CITY OF BRADBURY (Y0TV1112B)

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	4200	2212-0528	2212-0529	MOUNT VIEW DR	High water level (sag)	6

ENCLOSURE 2
CCTV PROJECT
Y0TV1112B

CITY OF
BRADBURY

HIGH WATER LEVEL



Legend

— HIGH WATER LEVEL

SMD Manholes

⊙ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

Ⓟ SMD Pump Stations

Ⓜ SMD Treatment Plants

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

▭ CCTV PROJECT AREA

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ALHAMBRA, CALIFORNIA 91802-1460

(DATE)

IN REPLY PLEASE

REFER TO FILE:

SM-1

Mr./Ms. (NAME)
(ADDRESS)

Dear Ms. (LAST NAME):

SEWER LATERAL ROOT INTRUSION

The County of Los Angeles Consolidated Sewer Maintenance District is responsible for the maintenance of the sanitary sewer system in your area. We recently televised the sewer mainline and discovered 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 an overflow upstream of your property. You are hereby requested to perform maintenance on the private sewer lateral serving the property located at 4474 El Prieto Road, Altadena, California 91001.

In accordance with **County Code 20.24.080 Maintenance of Sewer Laterals.** ***"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."***

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

Your licensed plumber is required to protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection. Prior to your plumber cleaning 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.

We have enclosed photos of your lateral connection showing the root blockage. In addition, we have included literature on ways to minimize sewer overflows and damage to your home. Please consider establishing a routine cleaning schedule for your sewer lateral to minimize potential plumbing problems caused by root intrusion that are likely to reoccur.

If your sewer lateral has been cleaned after the date on the enclosed photos, no further action is necessary. After your lateral has been serviced, please notify Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillaluna@dpw.lacounty.gov.

Thank you for helping keep the sewer lines clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

XXXXX

Enc.

File (Later

XXXXX

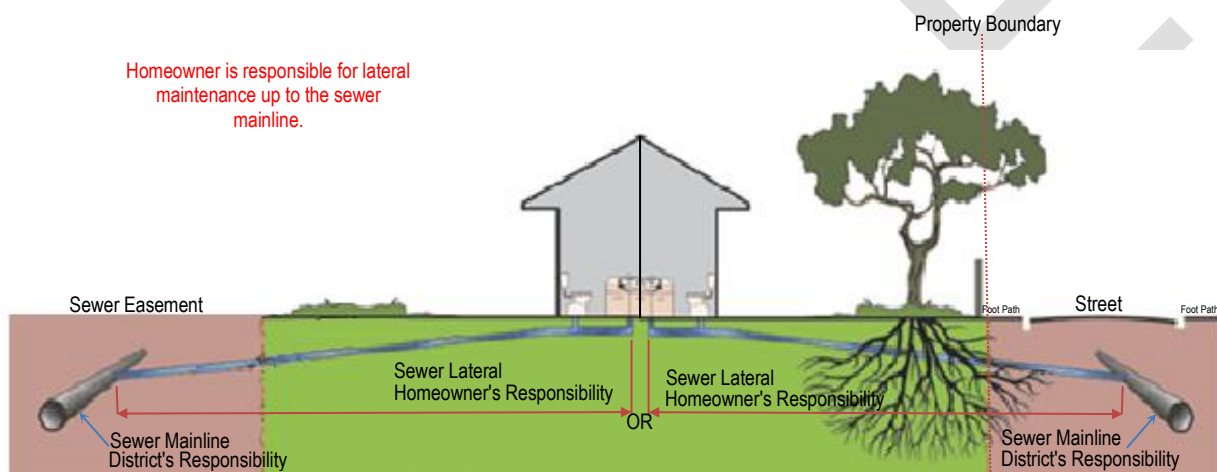
Roots at Lateral Connection



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 the 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
- Lining and Point Repair Projects Map

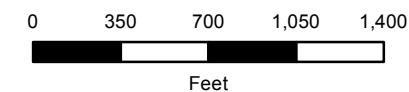
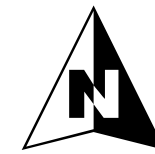
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF BRADBURY (Y0TV1112B)

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	5143	2212-0541	2212-0540	GARDI ST	Fractures: 25', 269', 333'	Lining: MH to MH	340
2	5134	2212-0544	2212-0543	SPRINGPOINT DR	Broken: 26'	Structural integrity in tact. No action needed.	
3	5132	2212-0230	2212-0231	EASEMENT	Cracks: multiple locations	Structural integrity in tact. No action needed.	
4	4100	2212-0528	2212-0529	MOUNT VIEW DR	Fractures: 35'	Lining: MH to MH	253

ENCLOSURE 3
CCTV PROJECT
Y0TV112B

CITY OF
BRADBURY

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

- QSR**
- 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

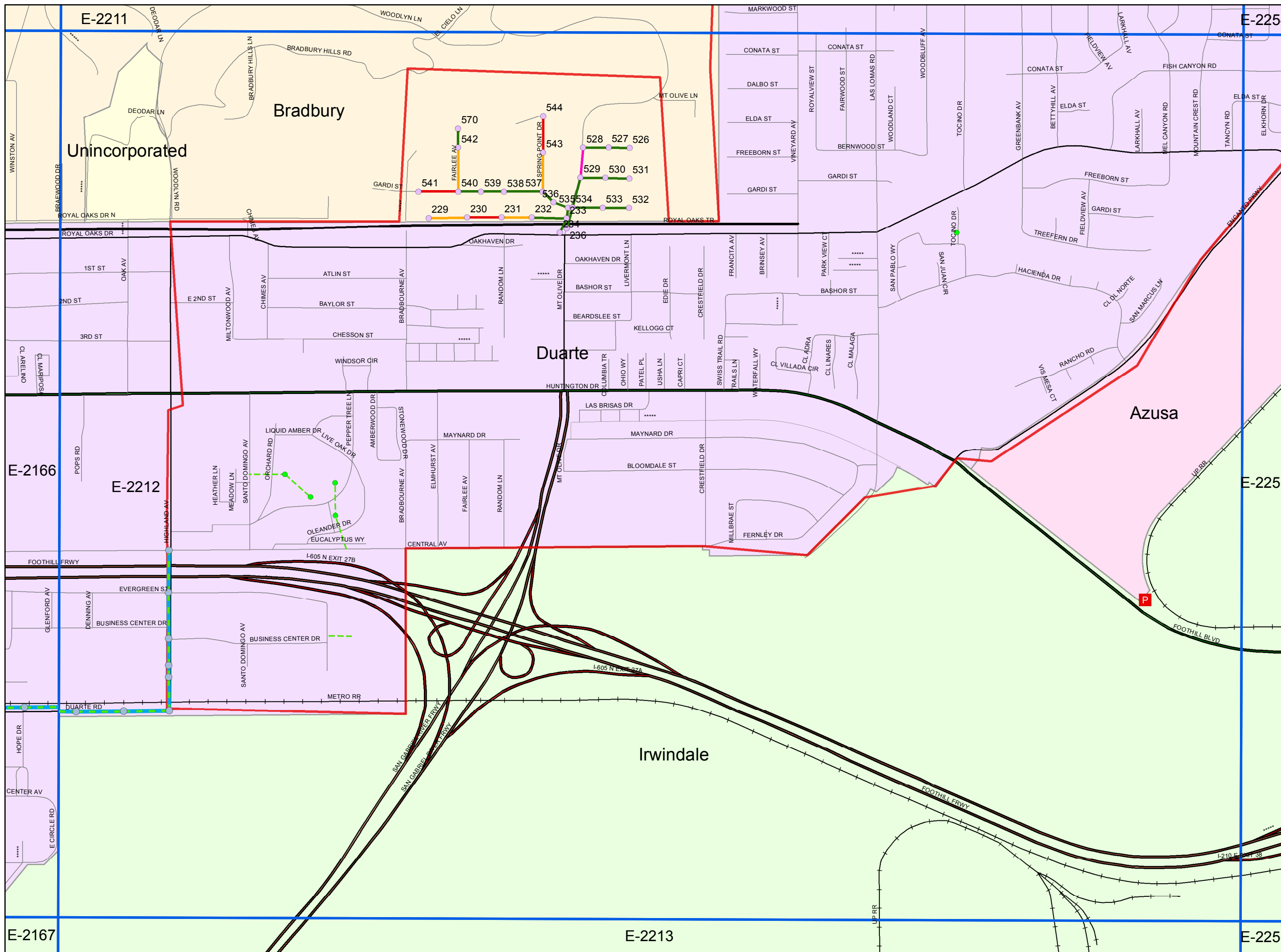
SMD Manholes

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

- Trunk Sewerlines
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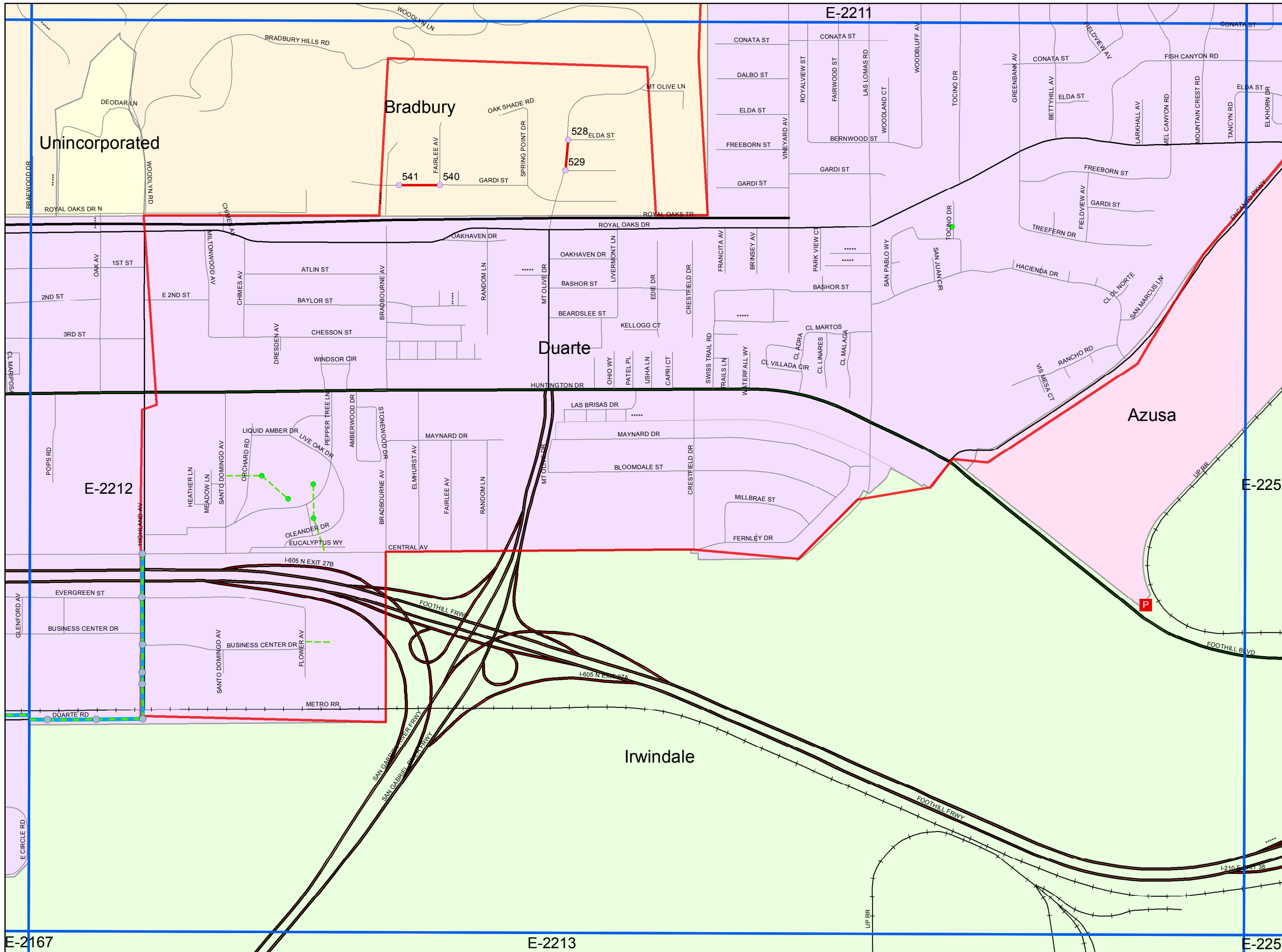
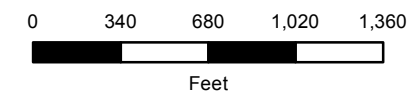
September 2016



ENCLOSURE 3
CCTV PROJECT
Y0TV1112B

CITY OF
BRADBURY

LINING &
POINT REPAIR
PROJECTS



Legend

— Lining MH to MH

SMD Manholes

⊙ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

Ⓟ SMD Pump Stations

Ⓜ SMD Treatment Plants

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

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