



MARK PESTRELLA, 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

December 19, 2018

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

Mr. Alex Gonzalez
Director of Public Works
City of Industry
15625 East Stafford Street
Industry, CA 91744

Attention Ms. CeCe Dunlap

Dear Mr. Gonzalez:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NOS. Y0TV1314B1 AND Y0TV1314B2

This letter is to inform you that the Los Angeles County Public Works Consolidated Sewer Maintenance District has completed its condition assessment of the City of Industry's sewer system.

The enclosed Condition Assessment Reports provide details regarding the maintenance and structural condition of your sewer mainlines. Please note that two previous reports covering the balance of your system, were transmitted to your City on September 21, 2009, and May 28, 2014. The information contained in all four reports 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, segments with severe structural defects have either been repaired or will be scheduled for corrective action as part of the ongoing Accumulative Capital Outlay Program.

Mr. Alex Gonzalez
December 19, 2018
Page 2

If you have any questions regarding these reports or the Condition Assessment Program, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390 or keskridge@dpw.lacounty.gov, Monday through Thursday, 7 a.m. to 5 p.m.

Very truly yours,

MARK PESTRELLA
Director of Public Works



WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

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Enc.

SUMMARY STRUCTURAL REPORT

Our inspection revealed that approximately 95.3 percent of the inspected pipe segments within the City were free of significant structural defects. However, the remaining 4.7 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 priority lists for these items are located in the enclosed reports.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	192,537	75.6	853
2: Minor to Moderate	21,609	8.5	88
3: Moderate	28,412	11.2	111
4: Significant	7,700	3.0	33
5: Most Significant	4,383	1.7	19
TOTAL	254,641	100.0	1,104

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

PROJECT NAME:	Y0TV1314B1	PROJECT MGR:	ERIC LIU
PROJECT DATE:	07/23/2014	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	1	MAP PAGE(S):	2075, 2170, 2171, 2217, 2218, 2124, 2261, 2262
Report By:	Jonathan Gonzalez	Report Date:	12/19/2018

INTRODUCTION

The Los Angeles County Public Works Consolidated Sewer Maintenance District (District) conducted a condition assessment of 133,933 feet or 52.6 percent of the City's entire sewer system as part of Project No. Y0TV1314B1.

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 and Quick Structural Rating Priority Map (Enclosure 3)

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. Y0TV1314B1 included sewer lines located in the unincorporated Los Angeles County and the Cities of Industry, La Mirada, and Santa Fe Springs. 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 92.3 percent of the system televised in your City as part of Project No. Y0TV1314B1 was free of significant blockages or restrictions that would impede sewer flows. However, the remaining 7.7 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 routine 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	112,956	84.3	403
2: Minor to Moderate	10,698	8.0	40
3: Moderate	3,304	2.5	11
4: Significant	6,379	4.8	24
5: Most Significant	596	0.4	2
TOTAL	133,933	100.0	480

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 approximately 97.7 percent of the system televised has adequate capacity. Approximately 2.3 percent of the segments inspected exhibited visual signs associated with high water levels. 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 has reached 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer lines, or a sag in the line. Therefore, additional review of these pipe segments 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 lines with high water levels 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 97.1 percent of the inspected pipe segments within the City 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 on page 4. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 17 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant a corrective action, the proposed corrective action will be programmed in the next 24 months as part of the ongoing Accumulative Capital Outlay Program.

A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	105,300	78.6	367
2: Minor to Moderate	4,346	3.2	17
3: Moderate	20,462	15.3	79
4: Significant	3,154	2.4	13
5: Most Significant	670	0.5	4
TOTAL	133,932	100.0	480

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	Y0TV0506E	26,566	10.4	COMPLETED
2009-10	Y0TV0910C	83,786	32.9	COMPLETED
2013-14	Y0TV1314B1	133,933	52.6	COMPLETED
2013-14	Y0TV1314B2	10,356	4.1	COMPLETED
TOTAL		254,641	100.0	

ENCLOSURE 1

Project Overview Map

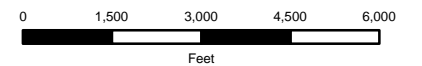
ENCLOSURE 1

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

OVERVIEW MAP

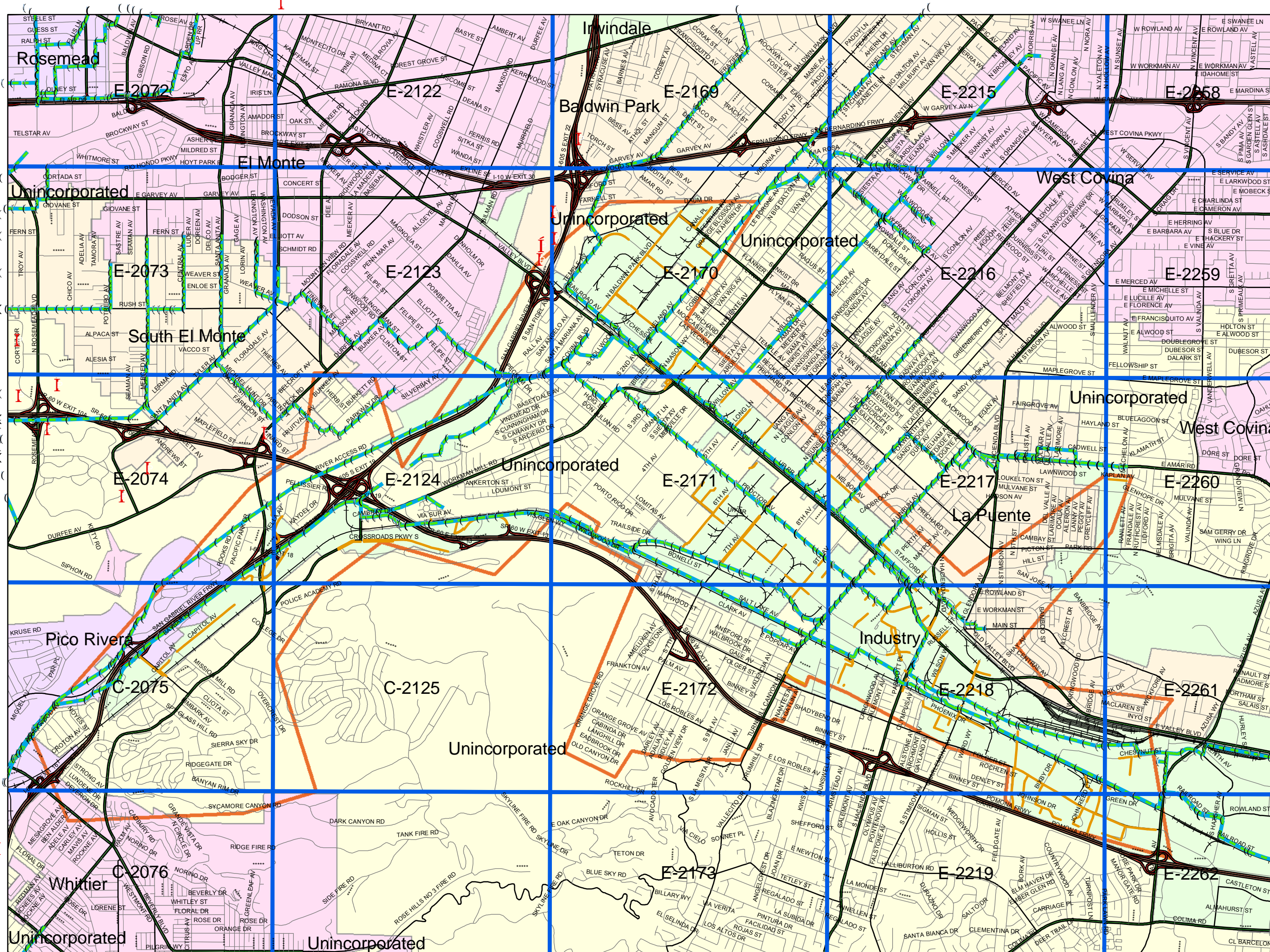


Legend

- SMD Sanitary Sewers
- SMD Manholes
 - U Other
 - Manhole Type
 - (Standard
 - * DROP
 - Shallow
 - W Trap
 - ? Siphon
 - I SMD Pump Stations
 - SMD Treatment Plants
 - Trunk Sewerlines
 - SMD Operation Map
 - YOTV1314B1

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ENCLOSURE 2

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

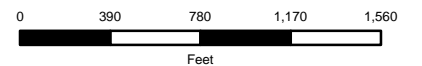
ENCLOSURE 2

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK MAINTENANCE RATING



Legend

SMD Sanitary Sewers

QMR

- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
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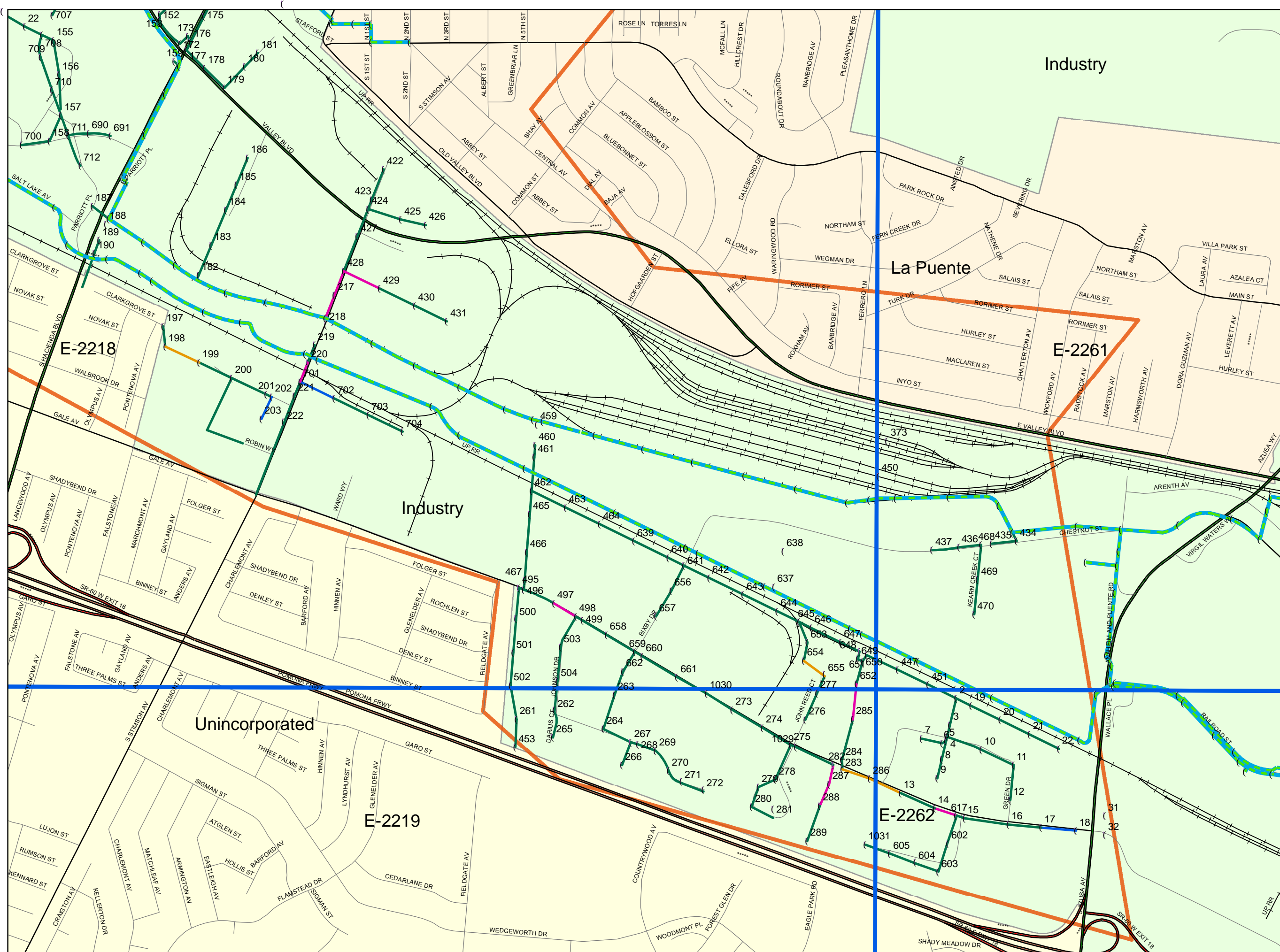
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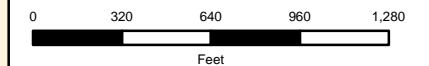
ENCLOSURE 2

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK
MAINTENANCE
RATING



Legend

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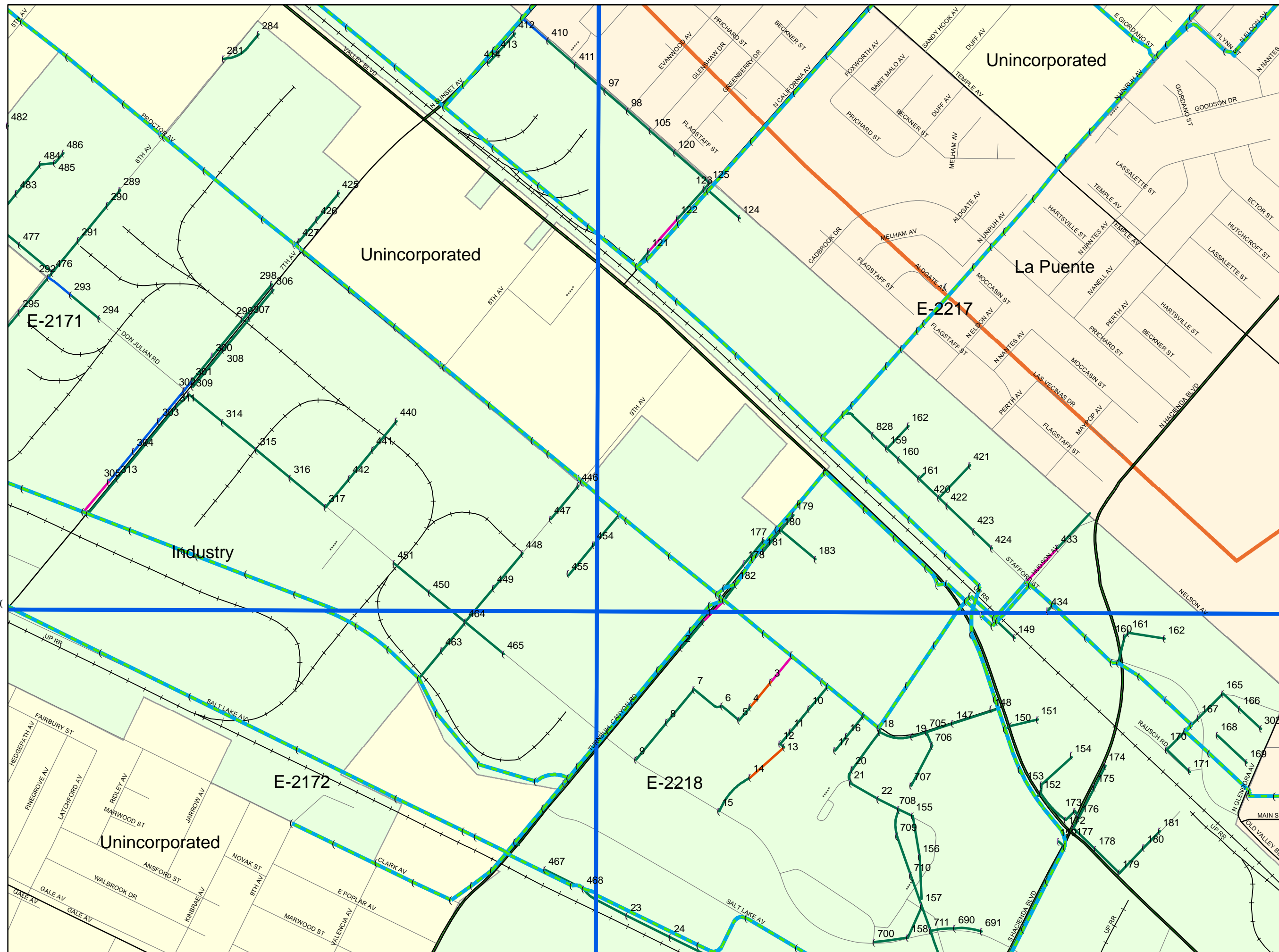
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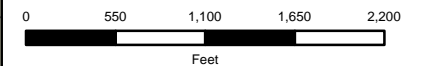
ENCLOSURE 2

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK
MAINTENANCE
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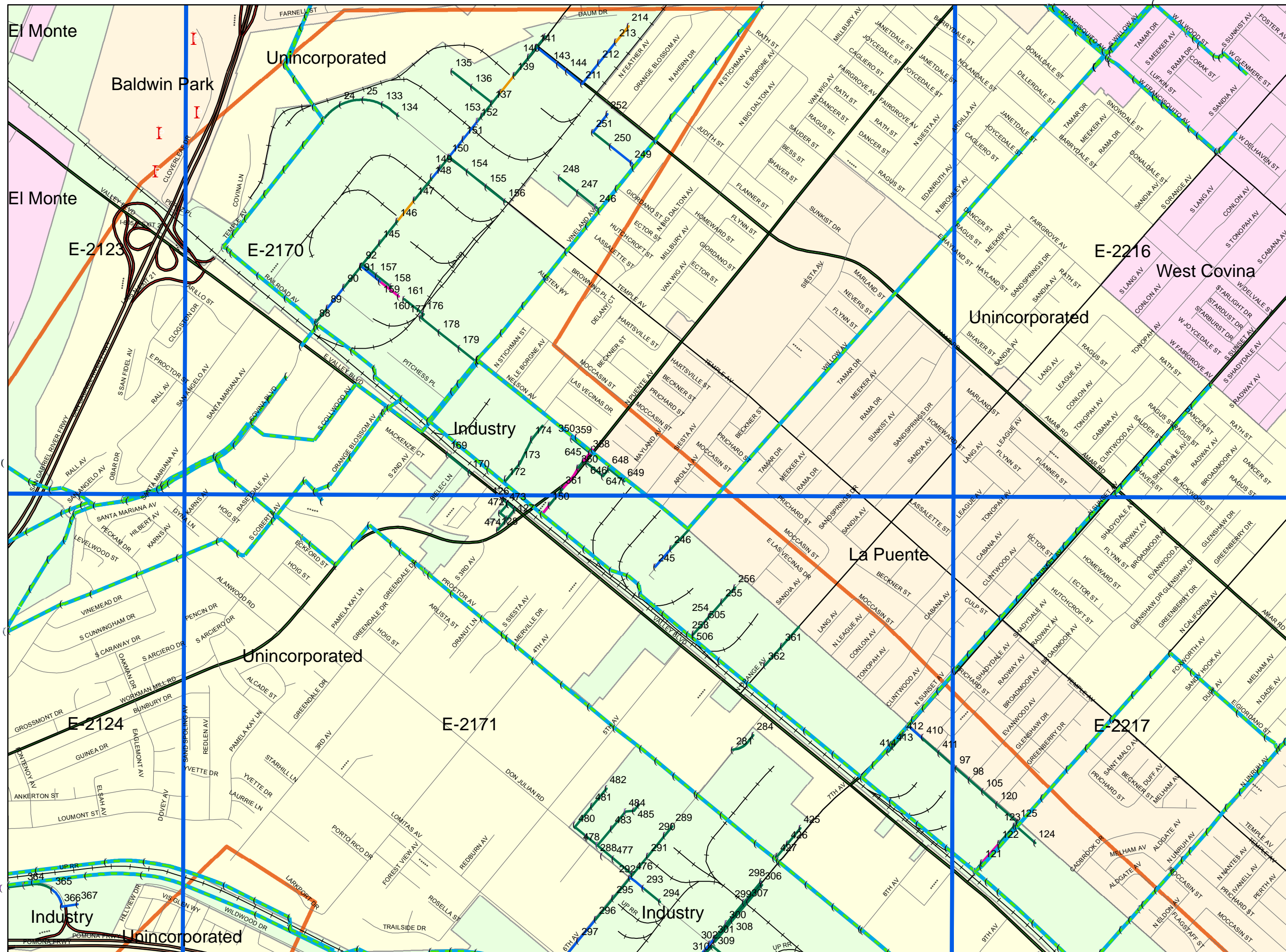
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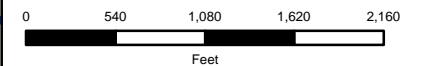
ENCLOSURE 2

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK
MAINTENANCE
RATING



Legend

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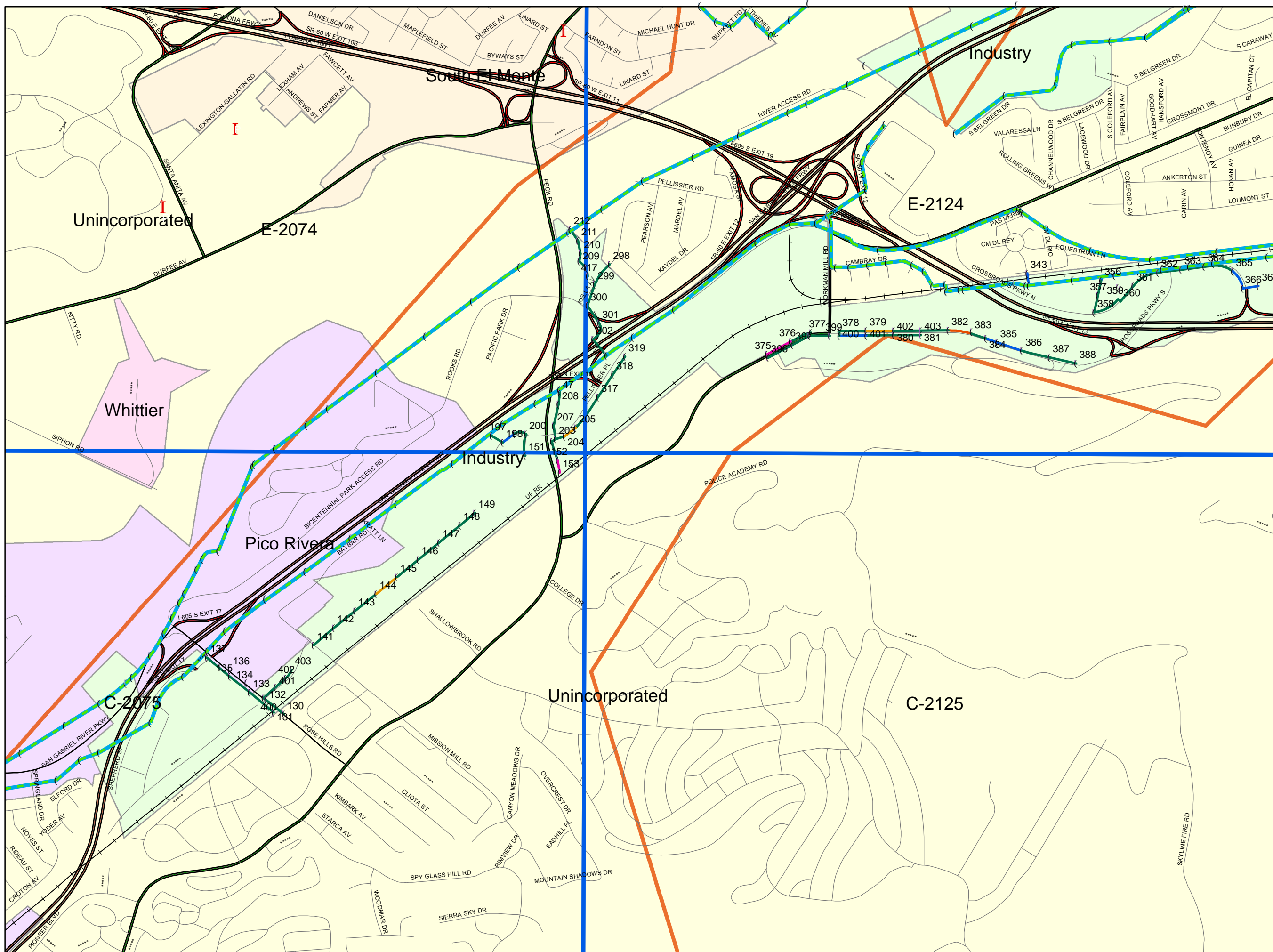
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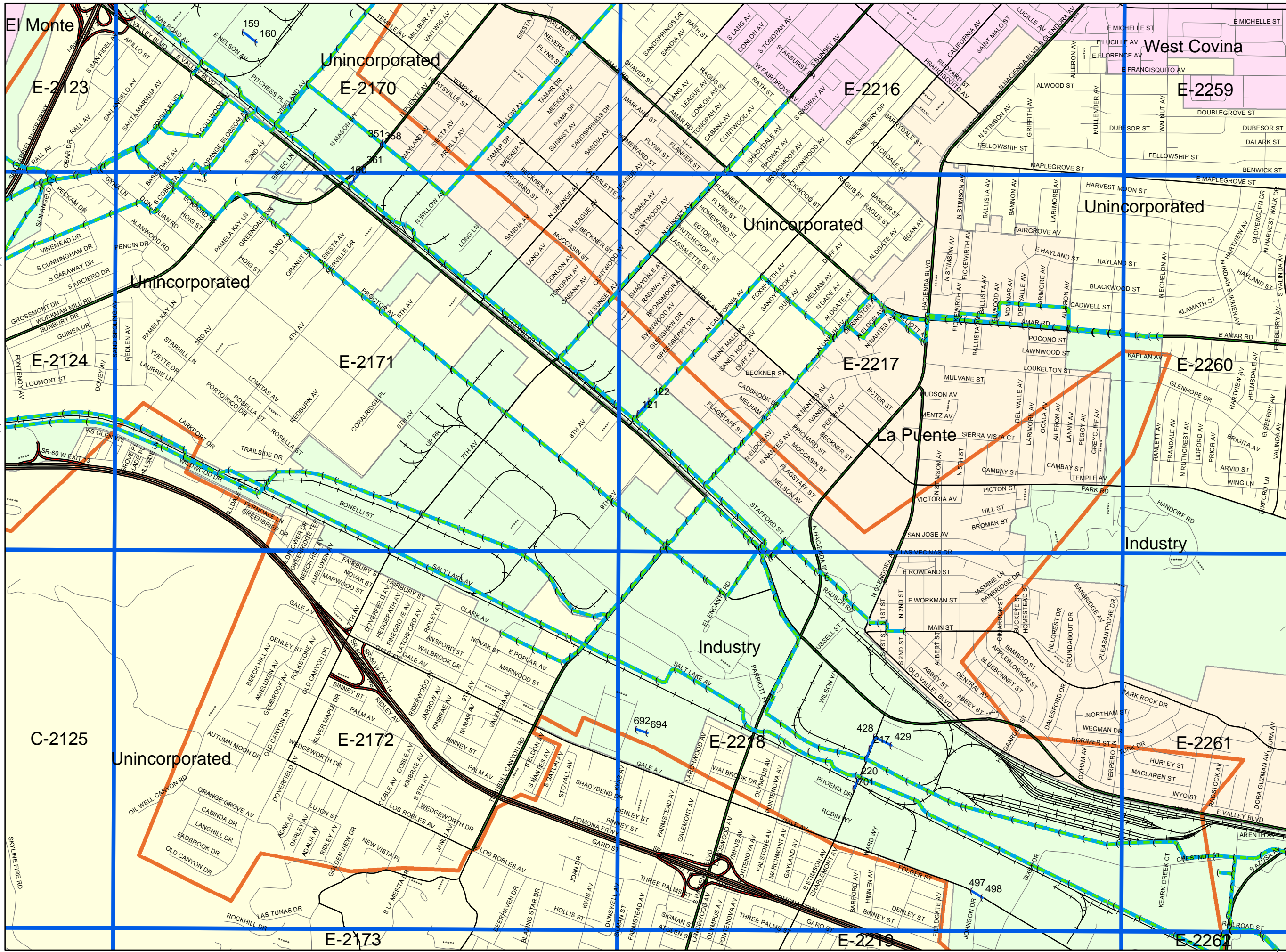
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**ENCLOSURE 2
HIGH WATER LEVELS
CITY OF INDUSTRY (Y0TV1314B1)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	4131	2170-0160	2170-0159	NELSON AV	Water Mark 70%	YES	No action needed
2	4121	2218-0498	2218-0497	GALE AV	Water Mark 70%	YES	No action needed
3	4112	2217-0122	2217-0121	CALIFORNIA AV	Water Mark 55%	YES	No action needed
4	4112	2170-0351	2170-0358	PUENTE AV	Water Mark 55%	YES	No action needed
5	4111	2218-0429	2218-0428	STEPHENS ST	Water Mark 50%	YES	No action needed
6	4111	2218-0428	2218-0217	STIMSON AV	Water Mark 50%	NO	No action needed
7	4111	2218-0217	2218-TRNK	STIMSON AV	Water Mark 50%	NO	No action needed
8	4111	2218-0701	2218-0220	STIMSON AV	Water Mark 55%	YES	No action needed
9	4111	2171-0150	2171-TRNK	PUENTE AV	Water Mark 55%	YES	No action needed
10	QSR	2218-0694	2218-0692	GALE AVE EASEMENT	Sag	NO	Hydrojet
11	QSR	2170-0361	2171-0150	PUENTE AV	Sag	NO	Hydrojet



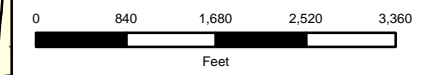
ENCLOSURE 2

CCTV PROJECT

Y0TV1314B1

**CITY OF
INDUSTRY**

**HIGH WATER
LEVEL**



Legend

- HIGH WATER LEVEL
- SMD Manholes**
- U Other
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September 2018



NOTICE OF SEWER LATERAL ROOT INTRUSION CONSOLIDATED SEWER MAINTENANCE DISTRICT

Property Owner/Occupant
1234 Mailing Street
Mailing City, California 99999

The County of Los Angeles Consolidated Sewer Maintenance District (District) is responsible for the maintenance of the sanitary sewer system in your area. A camera inspection of the sewer mainline 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 to your property and/or those immediately upstream of your property. You are hereby requested to perform maintenance on your private sewer lateral.

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."***

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 (123) 456-7890 for authorization to access the downstream manhole.

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.

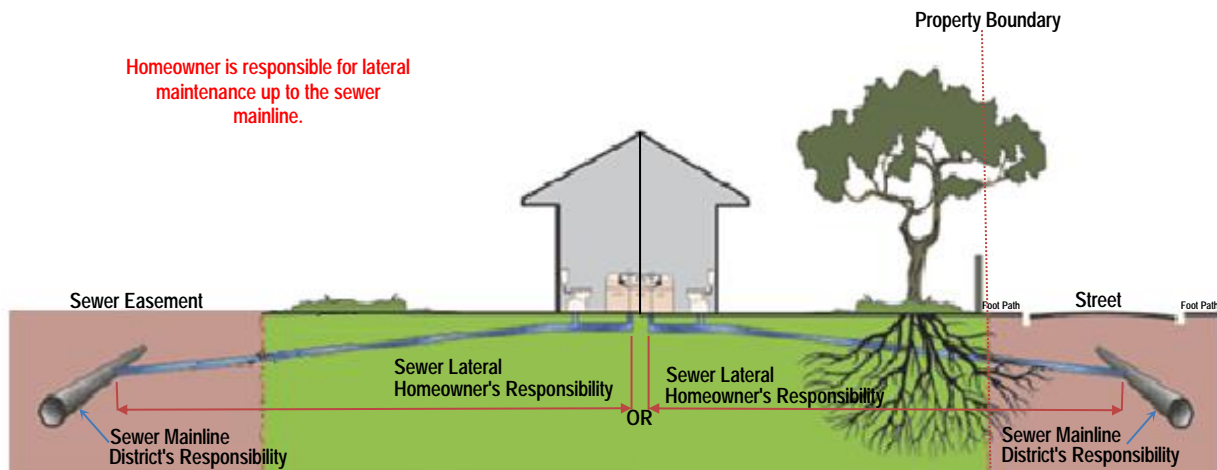
If you have recently cleaned your sewer later, no further action is necessary. If you have any questions, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390 or keskridge@dpw.lacounty.gov.

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

Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the 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

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF INDUSTRY (Y0TV1314B1)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2171-0305	2171-TRNK	SEVENTH AV	Broken, Fracture multiple	Lining
2	2218-0007	2218-0006	PROCTOR AVE EASEMENT	Broken, Fracture multiple	Lining
3	2218-0187	2218-TRNK	EASEMENT	Broken	Point Repair
4	2171-0414	2171-0413	SUNSET AV	Broken	Point Repair
5	2170-0144	2170-0143	AMAR RD	Fractures	Lining
6	2218-0694	2218-0692	GALE AVE EASEMENT	Sag	No action needed*
7	2218-0645	2218-0644	EASEMENT	Fractures	Lining
8	2170-0361	2171-0150	PUENTE AV	Sag	No action needed*
9	2170-0170	2170-0169	VALLEY BV	Fractures	No action needed*
10	2218-0642	2218-0641	EASEMENT	Fractures	No action needed*
11	2124-0401	2124-0400	CROSSROADS PKWY	Fractures	No action needed*
12	2218-0653	2218-0645	EASEMENT	Fractures	No action needed*
13	2218-0462	2218-0461	EASEMENT	Fracture, Fracture Multiple	No action needed*
14	2262-0006	2262-0005	GREEN DR	Large offset, Broken	Point Repair
15	2170-0156	2170-0155	TEMPLE AV	Fracture Multiple	No action needed*
16	2074-0205	2074-0204	PELLISSIER PL	Broken	No action needed*
17	2219-0279	2219-0278	JOHN REED CT	Fracture Multiple	No action needed*

*Structural deficiencies are categorized into groups of defects or observations with a wide range of severity. Each of these deficiencies received additional post inspection review and some of these were determined not likely to interfere with the normal operation of the sewer line due to the severity, size, and/or location of the deficiency. These segments will be reviewed during the next cycle of CCTV inspections.

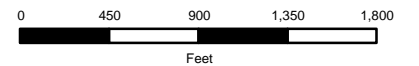
ENCLOSURE 3

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK
STRUCTURAL
RATING



Legend

SMD Sanitary Sewers

QSR

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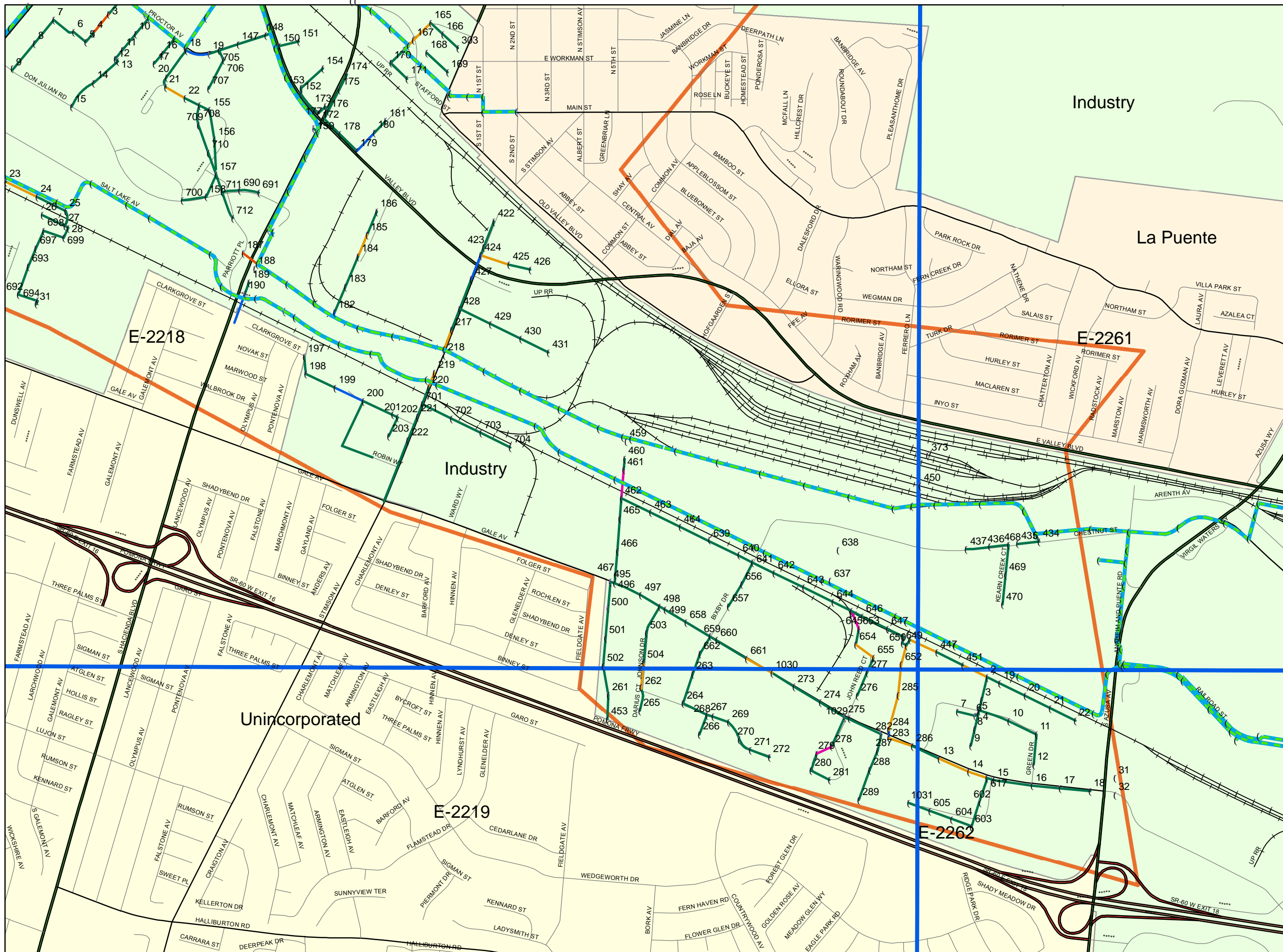
SMD Manholes

- U Other
- (Standard
- * DROP
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- ? Siphon
- I SMD Pump Stations
- SMD Treatment Plants

- Trunk Sewerlines
- SMD Operation Map
- YOTV1314B1

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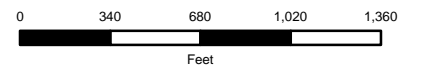
ENCLOSURE 3

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CITY OF INDUSTRY

QUICK STRUCTURAL RATING



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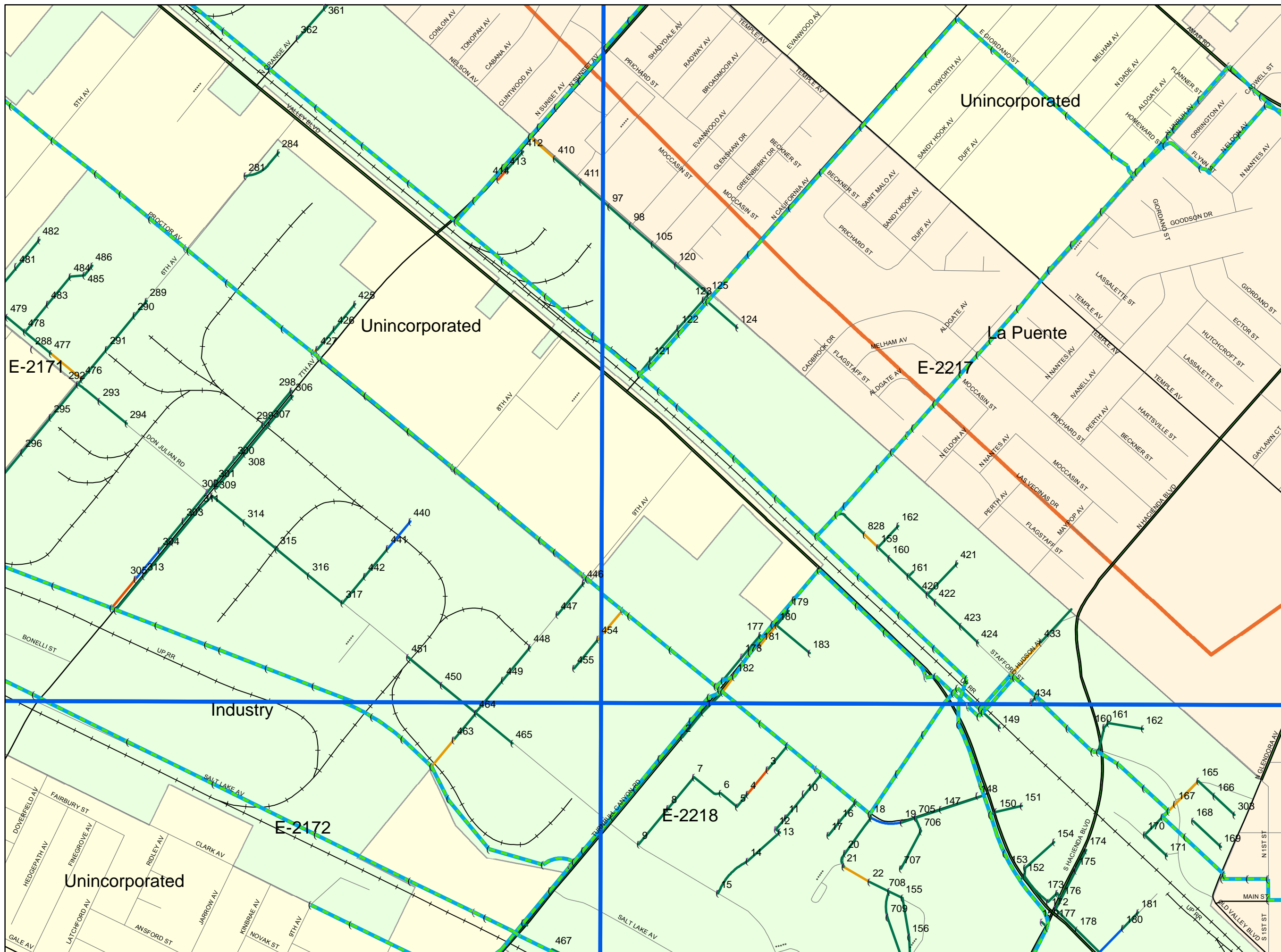
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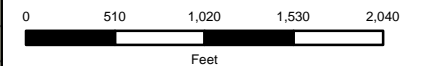
ENCLOSURE 3

CCTV PROJECT

YOTV1314B1

CITY OF
INDUSTRY

QUICK
STRUCTURAL
RATING



Legend

SMD Sanitary Sewers

QSR

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

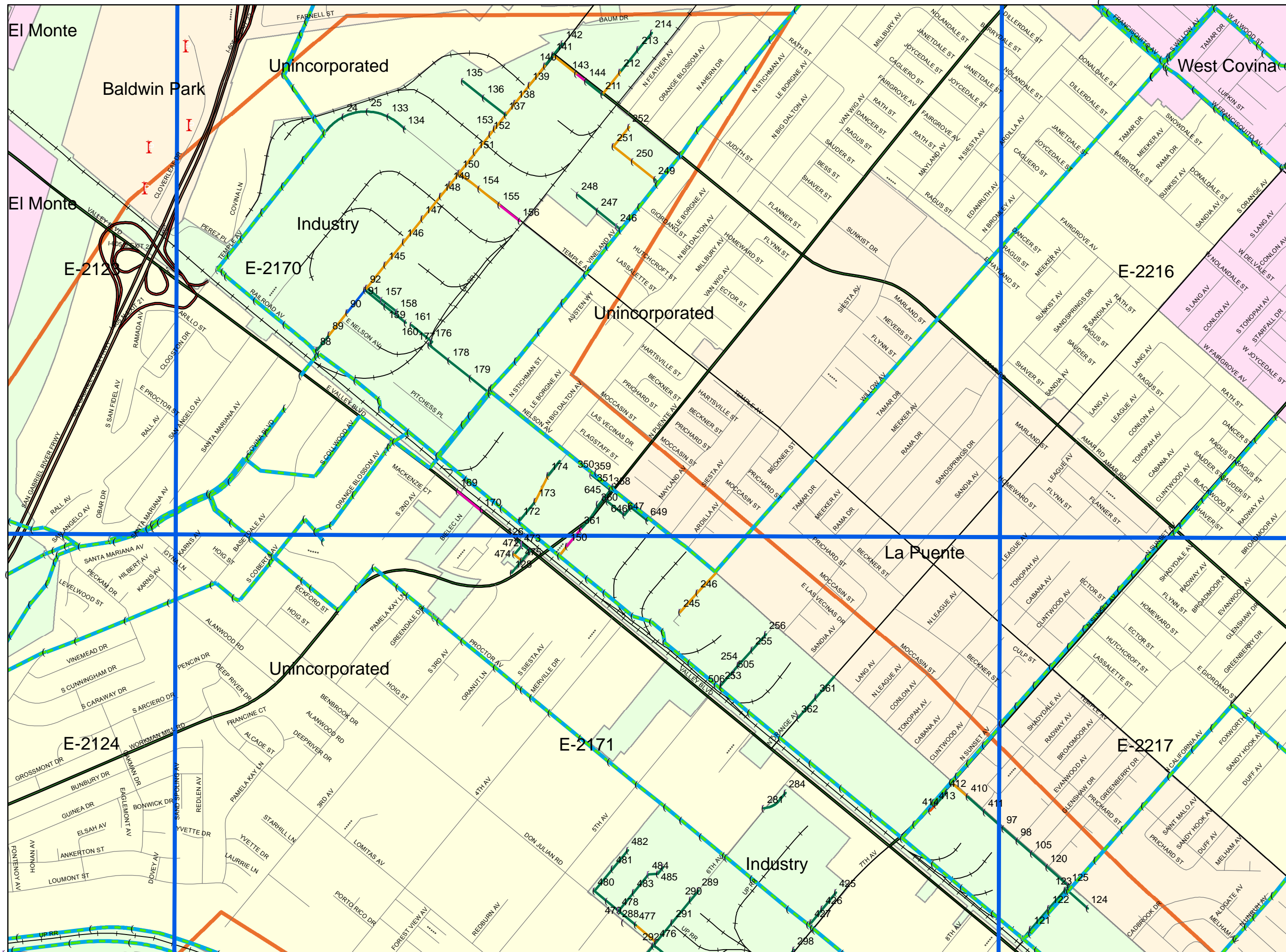
SMD Manholes

- U Other
- (Standard
- * DROP
- Shallow
- W Trap
- ? Siphon
- I SMD Pump Stations
- SMD Treatment Plants

- Trunk Sewerlines
- SMD Operation Map
- YOTV1314B1

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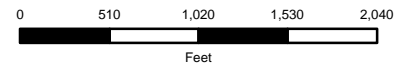
ENCLOSURE 3

CCTV PROJECT

YOTV1314B1

CITY OF INDUSTRY

QUICK STRUCTURAL RATING



Legend

SMD Sanitary Sewers

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