



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

February 5, 2019

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

Mr. Darrell J. George, City Manager  
City of Duarte  
1600 Huntington Drive  
Duarte, California 91010-2592

Attention Ms. Marla Akana

Dear Mr. George:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT  
CONDITION ASSESSMENT PROGRAM REPORT  
PROJECT NO. Y0TV1112B**

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

The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your sewer mainlines. Please note that the previous report covering the balance of your system was transmitted to your City on January 21, 2009. The information contained in both 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 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. Darrell J. George  
February 5, 2019  
Page 2

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

Very truly yours,

MARK PESTRELLA  
Director of Public Works



WILLIAM J. WINTER  
Assistant Deputy Director  
Sewer Maintenance Division

JG:nv  
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Enc.

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

**100% SUMMARY**

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SUP.	5	City:	Duarte
DISTRICT(S)			
Report By:	Jonathan Gonzalez	Report Date:	9/6/2018

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**INTRODUCTION**

As part of the Sewer Condition Assessment Program, Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television inspection of 234,089 feet or 100 percent of the City of Duarte's (City) sewer system.

The closed-circuit television inspection of the City was completed in two projects (Project Nos. Y0TV0506D and Y0TV1112B). A copy of the Condition Assessment Report for Project No. Y0TV0506D can be found in the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. Enclosed for your reference is the Condition Assessment Report for Project No. Y0TV1112B.

**SUMMARY MAINTENANCE REPORT**

Our inspection revealed that approximately 63.6 percent of the system televised was free of significant blockages or restrictions that would impede sewer flows. The remaining 36.4 percent of the inspected pipe segments within the City had a Pipeline Assessment and Certification Program (PACP) maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been addressed with corrective action taken as noted in the enclosed reports.

**QUICK MAINTENANCE RATING TABLE**

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	89,071	38.1	418
2: Minor to Moderate	59,667	25.5	267
3: Moderate	41,753	17.8	158
4: Significant	38,261	16.3	155
5: Most Significant	5,337	2.3	28
TOTAL	234,089	100.0	1,026

## SUMMARY STRUCTURAL REPORT

Our inspection revealed that approximately 82.6 percent of the inspected pipe segments within the City were free of significant structural defects. The remaining 17.4 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

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. OF SEGMENTS</b>
1: Minor	91,180	39.0	465
2: Minor to Moderate	19,402	8.3	92
3: Moderate	82,605	35.3	314
4: Significant	28,679	12.2	106
5: Most Significant	12,223	5.2	49
<b>TOTAL</b>	<b>234,089</b>	<b>100.0</b>	<b>1,026</b>

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

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PROJECT NAME: Y0TV1112B	PROJECT MGR:	Eric Liu
PROJECT DATE: 06/26/13	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s): 5	MAP PAGE(S):	2017, 2018, 2070, 2071
Report By: Jonathan Gonzalez	Report Date:	09/06/18

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**INTRODUCTION**

The District conducted a condition assessment of 206,310 feet or 88.1 percent of the City's entire sewer system as part of Project No. Y0TV1112B.

The enclosed Condition Assessment Report outlines the structural and maintenance ratings of your system based on the PACP's (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 (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. Y0TV1112B included sewer lines located in the unincorporated County of Los Angeles and the Cities of Temple City, San Dimas, La Canada/Flintridge and Duarte. 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 61.7 percent of the system televised in your City as part of Project No. Y0TV1112B was free of significant blockages or restrictions that would impede sewer flows. The remaining 38.3 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 periodic 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 TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	88,543	42.9	415
2: Minor to Moderate	38,775	18.8	166
3: Moderate	38,033	18.4	146
4: Significant	35,622	17.3	145
5: Most Significant	5,337	2.6	28
TOTAL	206,310	100.0	900

### ***High Water Levels***

Our inspection revealed that approximately 99.2 percent of the system televised has adequate capacity. Approximately 0.8 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 80.8 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 19.2 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. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 150 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**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. OF SEGMENTS</b>
1: Minor	82,389	39.9	412
2: Minor to Moderate	16,806	8.2	82
3: Moderate	67,512	32.7	256
4: Significant	27,988	13.6	103
5: Most Significant	11,615	5.6	47
TOTAL	206,310	100.0	900

**CONDITION ASSESSMENT PROJECTS**

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

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2005-06	Y0TV0506D	27,779	11.9	COMPLETED
2012-13	Y0TV1112B	206,310	88.1	COMPLETED
TOTAL		234,089	100.0	



# ENCLOSURE 1

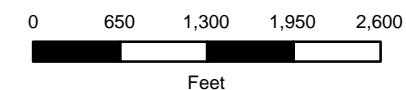
Project Overview Map

# ENCLOSURE 1

CCTV PROJECT

## Y0TV1112B

CITY OF DUARTE

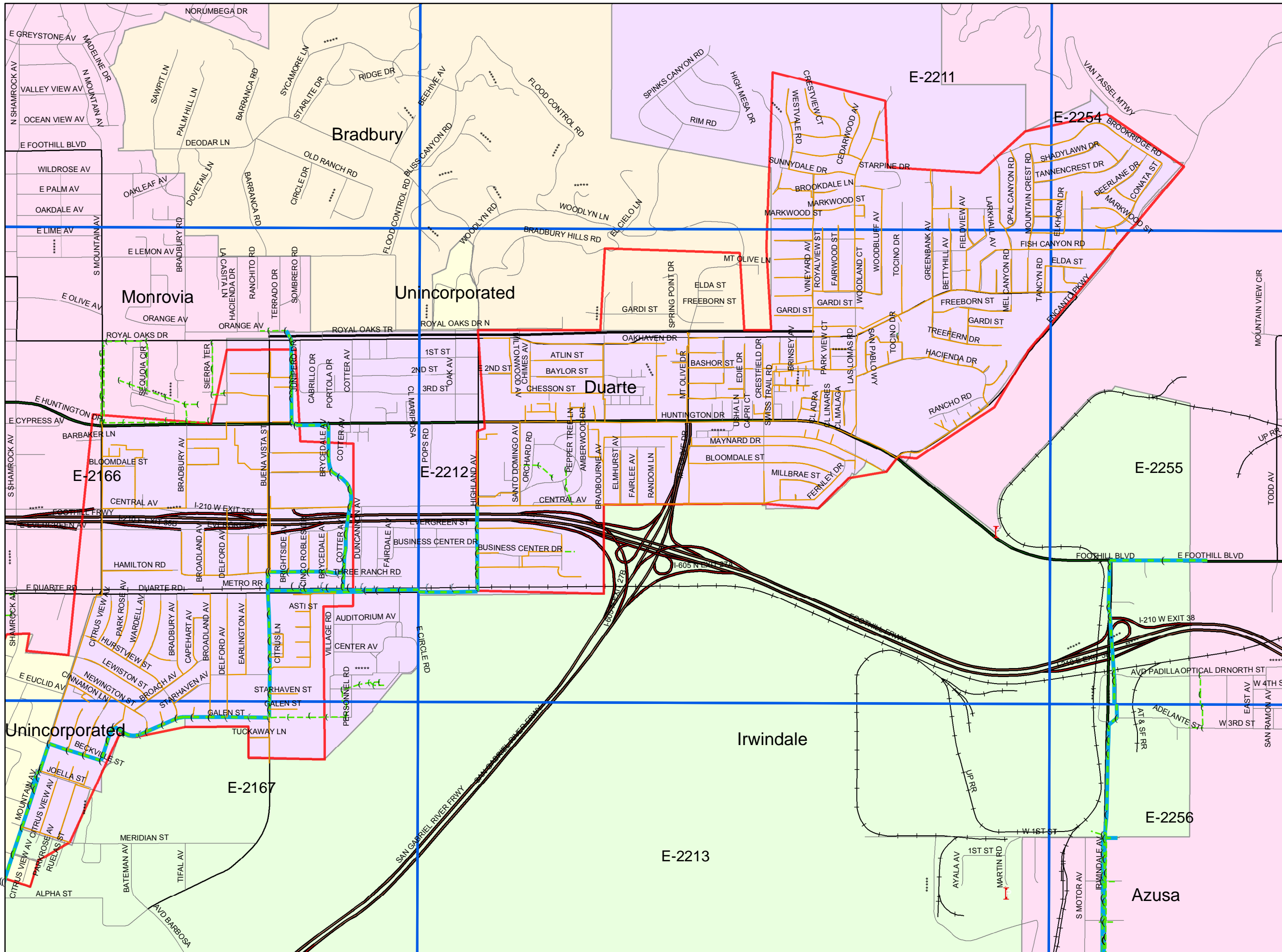


### Legend

- SMD Sanitary Sewers
- 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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September 2018



## ENCLOSURE 2

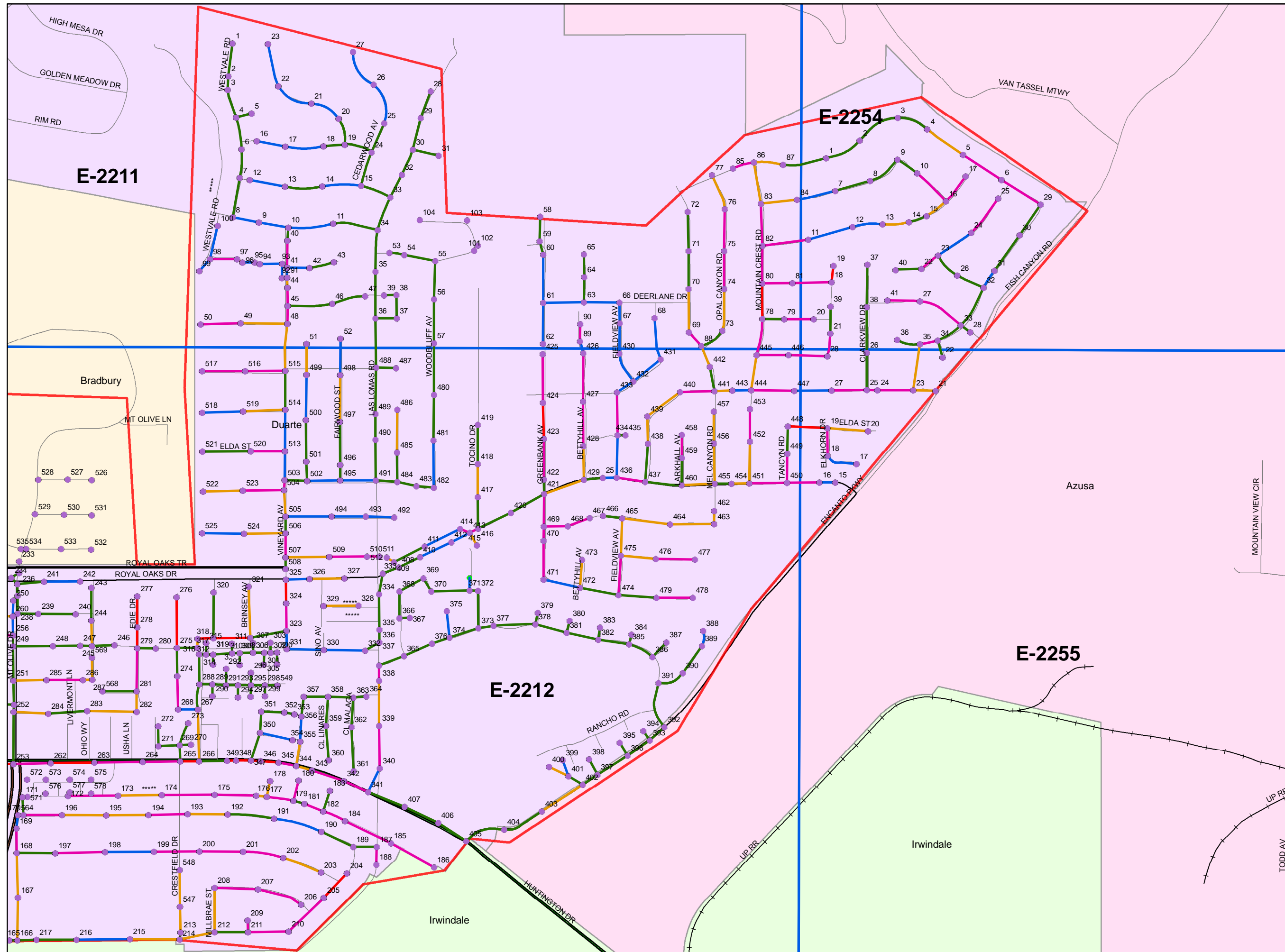
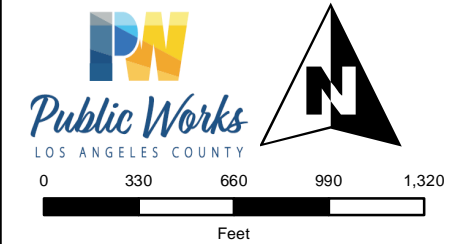
- Quick Maintenance Rating Map
- High Water Levels List and Map

# ENCLOSURE 2

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

### QUICK MAINTENANCE RATING



#### Legend

##### SMD Sanitary Sewers

###### QMR

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

##### 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
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1112B

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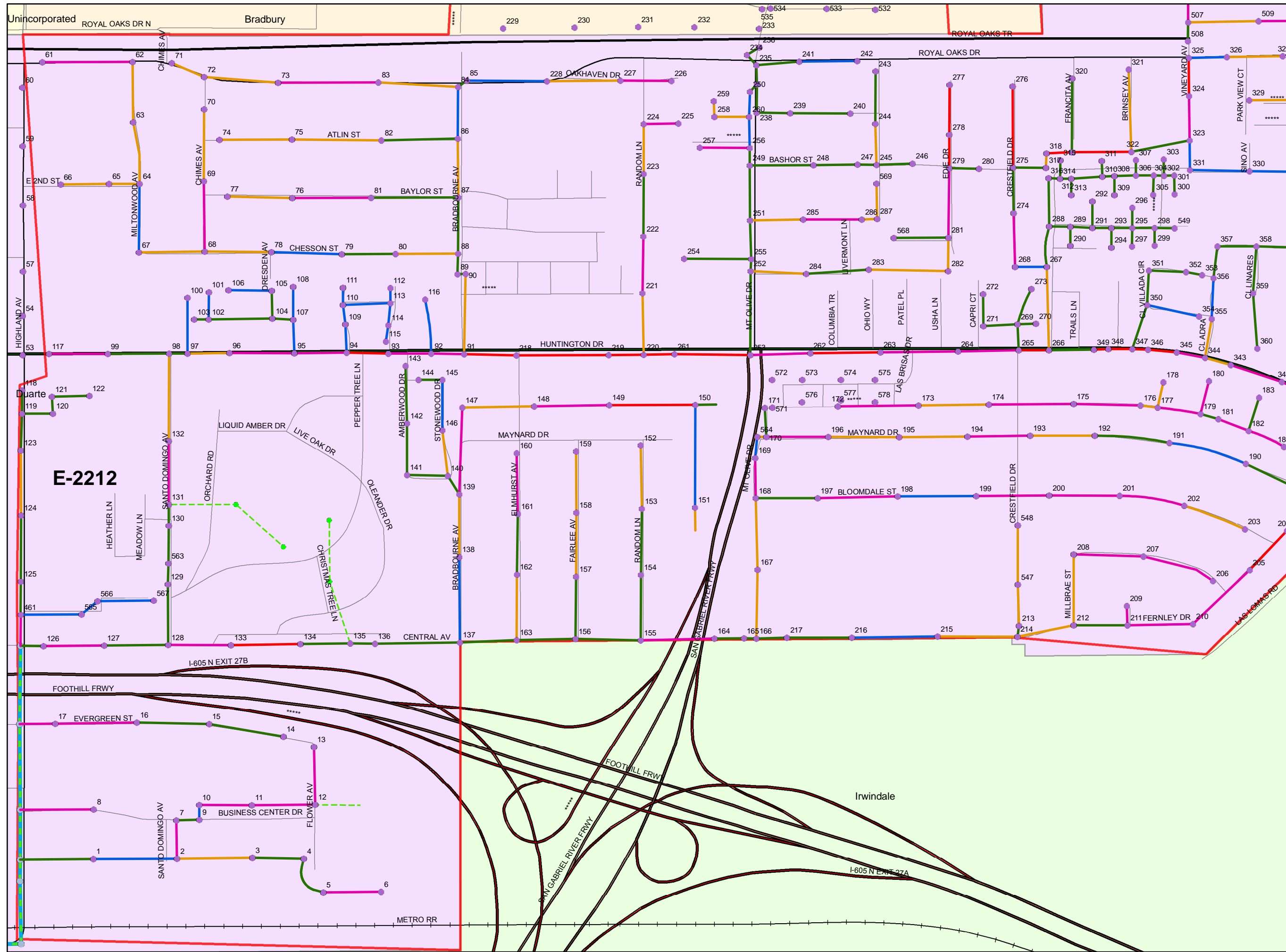
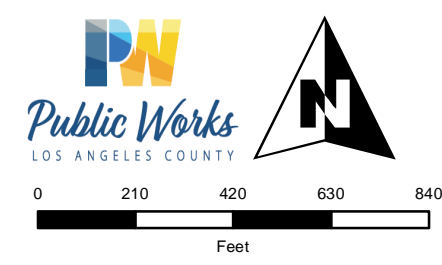


# ENCLOSURE 2

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

### QUICK MAINTENANCE RATING



### 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

#### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1112B

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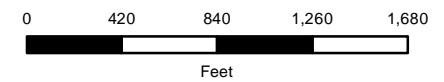
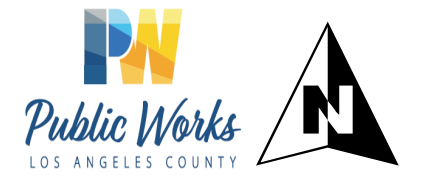
September 2018

# ENCLOSURE 2

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

QUICK  
MAINTENANCE  
RATING



### Legend

#### SMD Sanitary Sewers

QMR

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

#### SMD Manholes

Other

#### Manhole Type

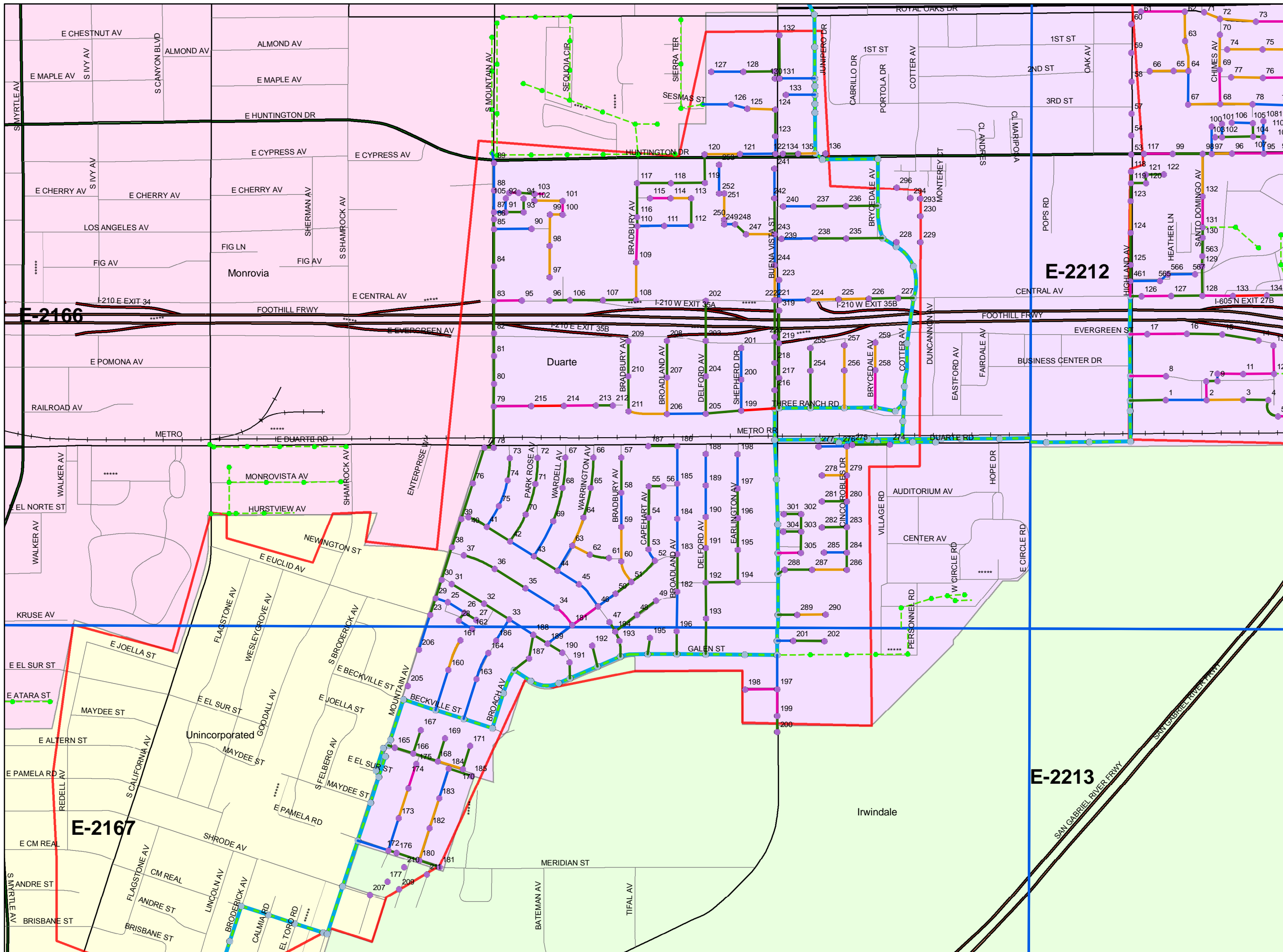
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1112B

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September 2018



**ENCLOSURE 2  
HIGH WATER LEVELS  
CITY OF DUARTE (Y0TV1112B)**

<b>ITEM NO.</b>	<b>QMR</b>	<b>START MH</b>	<b>END MH</b>	<b>STREET</b>	<b>OBSERVATION: LOCATION</b>	<b>CAPACITY</b>	<b>CORRECTIVE ACTION</b>
1	5143	2166-0214	2166-0215	HAMILTON RD	Water mark (70%)	YES	Hydrojet
2	4421	2212-0461	2212-TRNK	HIGHLAND AV	Water mark (55%)	YES	Hydrojet
3	4234	2212-0510	2212-0509	EASEMENT	Sag	YES	Hydrojet
4	4131	2212-0329	2212-0329A	EASEMENT	Water mark (60%)	NO	Hydrojet
5	4131	2212-0263A	2212-0263	HUNTINGTON DR	Water level (50%): 80'-129'	NO	Hydrojet
6	4122	2212-0017	2212-TRNK	EVERGREEN AV	Water level (50%): 105'-111'	NO	Hydrojet
7	4122	2166-0105	2166-0104	EASEMENT	Water mark (60%)	YES	Hydrojet

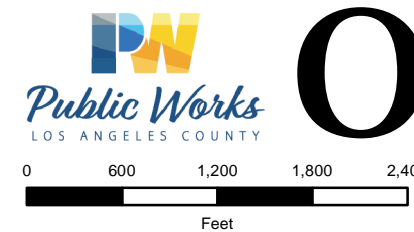


# ENCLOSURE 2

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

### HIGH WATER LEVEL



### Legend

— HIGH WATER LEVEL

#### SMD Manholes

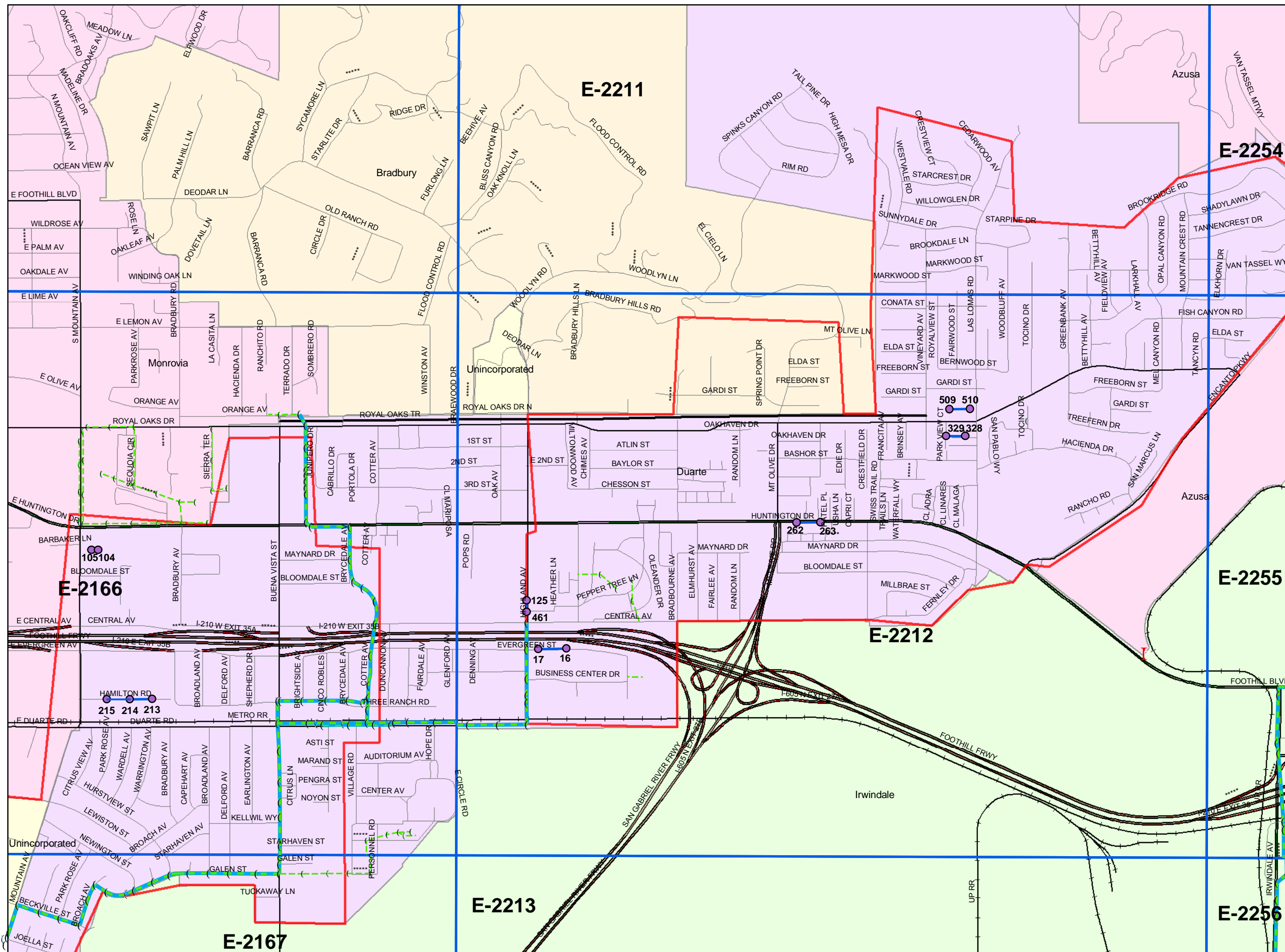
- U Other
- Manhole Type**
- ( Standard
- \* DROP
- Shallow
- W Trap
- ? Siphon
- I SMD Pump Stations
- 🗑️ SMD Treatment Plants

#### Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- ( Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1112B

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JULY 2015





## ENCLOSURE 3

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

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

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2166-0032	2166-0033	NEWINGTON ST	Fractures	No action needed*
2	2166-0033	2167-0188	NEWINGTON ST	Fractures	No action needed*
3	2166-0045	2166-0046	HURST VIEW ST	Joint Offset	No action needed*
	2166-0046	2166-0045	HURST VIEW ST	Fractures	No action needed*
4	2166-0060	2166-0051	BRADBURY AV	Broken	No action needed*
5	2166-0068	2166-0069	WARDELL AVE	Fractures	No action needed*
6	2166-0071	2166-0070	PARK ROSE AV	Cracks	No action needed*
7	2166-0082	2166-0081	MOUNTAIN AV	Fractures	No action needed*
8	2166-0096	2166-0098C	CENTRAL AV	Fractures	No action needed*
9	2166-0098	2166-0097	PARK ROSE AV	Fractures	No action needed*
10	2166-0099	2166-0098	PARK ROSE AV	Lining	Lining
11	2166-0100	2166-0099	MAYNARD DR	Fractures	No action needed*
12	2166-0102	2166-0101	EASEMENT	Fractures	No action needed*
13	2166-0106A	2166-0096	CENTRAL AV	Broken Cracks	Lining
14	2166-0109	2166-0108	BRADBURY AV	Fractures	No action needed*
15	2166-0110	2166-0109	BRADBURY AV	Fractures	No action needed*
16	2166-0113	2166-0112	BROADLAND AV	Broken	No action needed*
17	2166-0123	2166-0122	BUENA VISTA ST	Fractures	No action needed*
18	2166-0125	2166-0124	EASEMENT	Broken	Lining
19	2166-0126	2166-0125	EASEMENT	Cracks	No action needed*
20	2166-0127	2166-0128	EASEMENT	Broken	No action needed*
21	2166-0131	2166-TRNK	EASEMENT	Hole	Lining

\*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**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DUARTE (Y0TV1112B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
22	2166-0185	2166-0184	BROADLAND AV	Fractures	No action needed*
23	2166-0193	2167-TRNK	DELFORD AV	Broken, Cracks	Lining
24	2166-0198	2166-0197	EARLINGTON AV	Fractures	No action needed*
25	2166-0199	2166-TRNK	THREE RANCH RD	Broken, Cracks	No action needed*
26	2166-0202	2166-0203	EASEMENT	Fractures	Lining
27	2166-0205	2166-0199	THREE RANCH RD	Fractures	No action needed*
28	2166-0206	2166-0205	THREE RANCH RD	Fractures	Lining
29	2166-0209	2166-0210	BRADBURY AV	Fractures	No action needed*
30	2166-0210	2166-0211	BRADBURY AV	Fractures	No action needed*
31	2166-0211	2166-0206	THREE RANCH RD	Cracks	Lining
32	2166-0219	2166-0217	BUENA VISTA ST	Hole, Cracks	No action needed*
33	2166-0221	2166-0220	BUENA VISTA ST	Fractures	No action needed*
34	2166-0258	2166-TRNK	BRYCEDALE AV	Fractures	No action needed*
35	2166-0278	2166-0279	ASTI RD	Fractures	No action needed*
36	2166-0279	2166-0280	CINCO ROBLES RD	Fractures	No action needed*
37	2166-0280	2166-0283	CINCO ROBLES DR	Fractures	No action needed*
38	2166-0286	2166-0287	EASEMENT	Broken	Lining
39	2166-0290	2166-0289	STARHAVEN ST	Cracks	No action needed*
40	2166-CITY	2166-0126	EASEMENT	Fractures	No action needed*
41	2167-0160	2167-TRNK	CITRUS VIEW AV	Fractures	No action needed*
42	2167-0169	2167-0168	PARK ROSE AV	Cracks	No action needed*
43	2167-0175	2167-0174	CITRUS VIEW AV	Broken	Point Repair
44	2167-0181	2167-0180	MERIDIAN ST	Fractures	No action needed*
45	2167-0188	2167-0187	EASEMENT	Fractures	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**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DUARTE (Y0TV1112B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
46	2167-0192	2167-TRNK	IVORY DR	Fractures	No action needed*
47	2167-0197	2167-TRNK	BUENA VISTA ST	Broken, Fracture	No action needed*
48	2167-0202	2167-0201	GALEN ST	Fractures	No action needed*
49	2211-0048	2212-0515	VINEYARD AV	Fractures	No action needed*
50	2211-0058	2211-0059	GREENBANK AV	Fractures	No action needed*
51	2211-0059	2211-0060	GREENBANK AV	Fractures	No action needed*
52	2211-0062	2211-0061	GREENBANK AV	Fractures	No action needed*
53	2211-0064	2211-0063	BETTYHILL AV	Fractures	No action needed*
54	2211-0078	2211-0080	MOUNTAINCREST RD	Broken	No action needed*
55	2211-0084	2211-0083	SHADYLAWN DR	Hole	No action needed*
56	2211-0085	2211-0086	BROOKRIDGE RD	Broken	No action needed*
57	2211-0086	2211-0083	MOUNTAINCREST RD	Broken	Point Repair
58	2212-0001	2212-TRNK	EASEMENT	Fractures	No action needed*
59	2212-0002	2212-0001	EASEMENT	Fractures	No action needed*
60	2212-0002	2212-0003	EASEMENT	Hole	No action needed*
61	2212-0004	2212-0003	EASEMENT	Hole	No action needed*
62	2212-0006	2212-0005	EASEMENT	Fractures	No action needed*
63	2212-0010	2212-0009	EASEMENT	Hole	Point Repair
64	2212-0066	2212-0065	2ND ST	Cracks	No action needed*
65	2212-0067	2212-0068	CHESSON ST	Fractures	No action needed*
66	2212-0068	2212-0078	CHESSON ST	Fractures	No action needed*
67	2212-0069	2212-0068	CHIMES AV	Fractures	No action needed*
68	2212-0070	2212-0069	CHIMES AV	Fractures	No action needed*
69	2212-0078	2212-0079	CHESSON ST	Fractures	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**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DUARTE (Y0TV1112B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
70	2212-0079	2212-0080	CHESSON ST	Fractures	No action needed*
71	2212-0080	2212-0088	CHESSON ST	Fractures	No action needed*
72	2212-0090	2212-0091	BRADBOURNE AV	Fractures	Lining
73	2212-0091	2212-0092	HUNTINGTON DR.	Hole	No action needed*
74	2212-0099	2212-0098	HUNTINGTON DR	Fractures	No action needed*
75	2212-0123	2212-0124	HIGHLAND AV	Hole, Fractures	Lining
76	2212-0124	2212-0125	HIGHLAND AV	Broken, Fracture	Lining
77	2212-0125	2212-0461	HIGHLAND AV	Broken, Fracture	No action needed*
78	2212-0127	2212-0126	CENTRAL AV	Fractures	No action needed*
79	2212-0134	2212-0133	CENTRAL AV	Fractures	No action needed*
80	2212-0135	2212-0134	CENTRAL AV	Fractures	No action needed*
81	2212-0137	2212-0136	CENTRAL AV	Fractures	No action needed*
82	2212-0143	2212-0142	AMBERWOOD DR	Hole	No action needed*
83	2212-0145	2212-0146	STONEWOOD DR	Hole	No action needed*
84	2212-0148	2212-0147	ALLEY	Fractures	No action needed*
85	2212-0149	2212-0148	ALLEY	Fractures	Lining
86	2212-0150	2212-0149	EASEMENT	Broken, Cracks	Lining
87	2212-0167	2212-0166	EASEMENT	Hole	No action needed*
88	2212-0171	2212-0170	MOUNT OLIVE DR	Broken	No action needed*
89	2212-0200	2212-0199	BLOOMDALE ST	Fractures	No action needed*
90	2212-0204	2212-0205	FERNLEY DR	Fractures	No action needed*
91	2212-0210	2212-0211	FERNLEY DR	Fractures	No action needed*
92	2212-0212	2212-0214	FERNLEY DR	Broken	Point Repair
93	2212-0216	2212-0217	CENTRAL AV	Fractures	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**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DUARTE (Y0TV1112B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
94	2212-0217	2212-0166	CENTRAL AV	Fractures	No action needed*
95	2212-0221	2212-0220	EASEMENT	Fractures, Cracks	Lining
96	2212-0222	2212-0221	EASEMENT	Fractures, Cracks	Lining
97	2212-0227	2212-0228	OAKHAVEN DR	Fractures	No action needed*
98	2212-0228	2212-0085	ROYAL OAKS DR	Fractures, Cracks	No action needed*
99	2212-0235	2212-0237	MOUNT OLIVE DR	Fractures	Lining
100	2212-0237	2212-0250	MOUNT OLIVE DR	Fractures	Lining
101	2212-0240	2212-0239	OAKHAVEN DR	Fractures	No action needed*
102	2212-0242	2212-0241	ROYAL OAKS DR	Fractures	No action needed*
103	2212-0251	2212-0255	MOUNT OLIVE DR	Fractures	No action needed*
104	2212-0252	2212-0253	MOUNT OLIVE DR	Fractures, Cracks	No action needed*
105	2212-0257	2212-0256	EASEMENT	Hole	Point Repair
106	2212-0262	2212-0253	HUNTINGTON DR	Broken	No action needed*
107	2212-0263	2212-0262	HUNTINGTON DR	Fractures	Lining
108	2212-0263A	2212-0263	HUNTINGTON DR	Fractures	Lining
109	2212-0264A	2212-0264	HUNTINGTON DR	Fractures	No action needed*
110	2212-0265	2212-0264	HUNTINGTON DR	Fractures	No action needed*
111	2212-0276	2212-0275	CRESTFIELD DR	Fractures	No action needed*
112	2212-0283	2212-0284	SESMAS ST	Fractures	No action needed*
113	2212-0284	2212-0252	SESMAS ST	Fractures	Lining
114	2212-0285	2212-0251	BEARDSLEE ST	Broken	No action needed*
115	2212-0320	2212-0319	FRANCITA AV	Fractures	Lining
116	2212-0321	2212-0322	BRINSEY AV	Broken	No action needed*
117	2212-0322	2212-0319	EASEMENT	Fractures	No action needed*

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

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
118	2212-0329B	2212-0329C	PARK VIEW CT	Fractures	No action needed*
119	2212-0330	2212-0331	BASHOR ST	Fractures	No action needed*
120	2212-0332	2212-0330	BASHOR ST	Fractures	No action needed*
121	2212-0349A	2212-0349D	HUNTINGTON DR.	Fractures	No action needed*
122	2212-0349D	2212-0266	HUNTINGTON DR.	Fractures	No action needed*
123	2212-0356	2212-0355	CALLE ADRA	Hole	Point Repair
124	2212-0359	2212-0358	CALLE LINARES	Hole	Point Repair
125	2212-0361	2212-0362	CALLE MALAGA	Hole	Point Repair
126	2212-0370	2212-0371	SAN PABLO WY	Deformed	No action needed*
127	2212-0375	2212-0374	SAN JUAN CR	Deformed	No action needed*
127	2212-0377	2212-0373	HACIENDA DR	Broken	No action needed*
128	2212-0408	2212-0333	ROYAL OAKS DR	Broken	No action needed*
129	2212-0412	2212-0410	ROYAL OAKS DR	Fractures	No action needed*
130	2212-0413	2212-0412	ROYAL OAKS DR	Fractures	No action needed*
131	2212-0421	2212-0420	ROYAL OAKS DR	Fractures	No action needed*
132	2212-0427	2212-0428	BETTYHILL AV	Fractures	No action needed*
133	2212-0429	2212-0421	ROYAL OAKS DR	Fractures	No action needed*
134	2212-0441	2212-0440	FISH CANYON RD	Hole	Point Repair
135	2212-0460	2212-0437	ROYAL OAKS DR	Broken	No action needed*
136	2212-0463	2212-0464	FREEBORN ST	Broken	Lining
137	2212-0465	2212-0475	FIELDVIEW AV	Fractures	No action needed*
138	2212-0469	2212-0421	GREENBANK AV	Cracks	No action needed*
139	2212-0477	2212-0476	GARDI ST	Fractures	No action needed*
140	2212-0482	2212-0483	BERNWOOD ST	Hole	Point Repair

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

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
141	2212-0510	2212-0509	EASEMENT	Fractures, Cracks	No action needed*
142	2212-0513	2212-0503	VINEYARD AV	Broken	No action needed*
143	2212-0517	2212-0516	CONATA ST	Fractures	No action needed*
144	2212-0525	2212-0524	GARDI ST	Fractures, Cracks	No action needed*
145	2212-0564	2212-0169	MOUNT OLIVE DR	Fractures, Hole	No action needed*
146	2212-SOUT	2212-0151	EASEMENT	Joint Offset	Point Repair
147	2254-0003	2254-0002	BROOKRIDGE RD	Broken	No action needed*
148	2255-0016	2212-0450	ROYAL OAKS DR	Broken	Point Repair
149	2255-0018	2255-0019	ELKHORN DR	Hole	No action needed*
150	2255-0019	2212-0448	ELDA ST	Fractures, Broken	Lining

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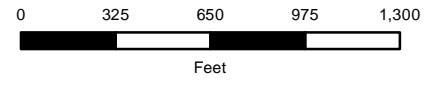
# ENCLOSURE 3

## CCTV PROJECT

# Y0TV112B

## CITY OF DUARTE

### QUICK STRUCTURAL RATING



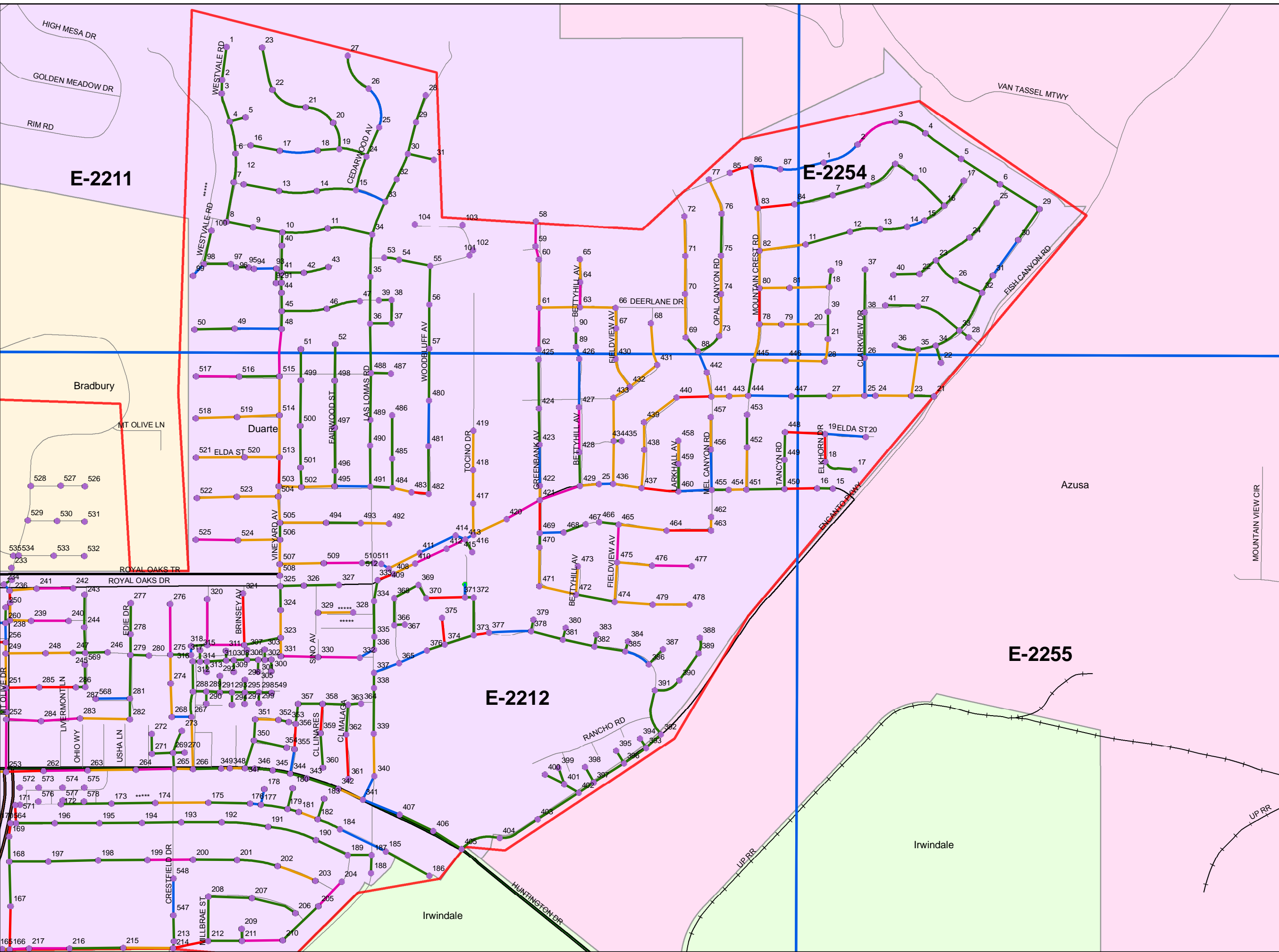
- Legend**
- SMD Sanitary Sewers**
- QSR**
- 1: MINOR
  - 2: MINOR TO MODERATE
  - 3: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

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

- Maintained by Others:**
- Trunk Sewerlines
  - Non SMD Sanitary Sewers
  - Non SMD Maintained MH
  - SMD Operations Maps
  - Y0TV112B

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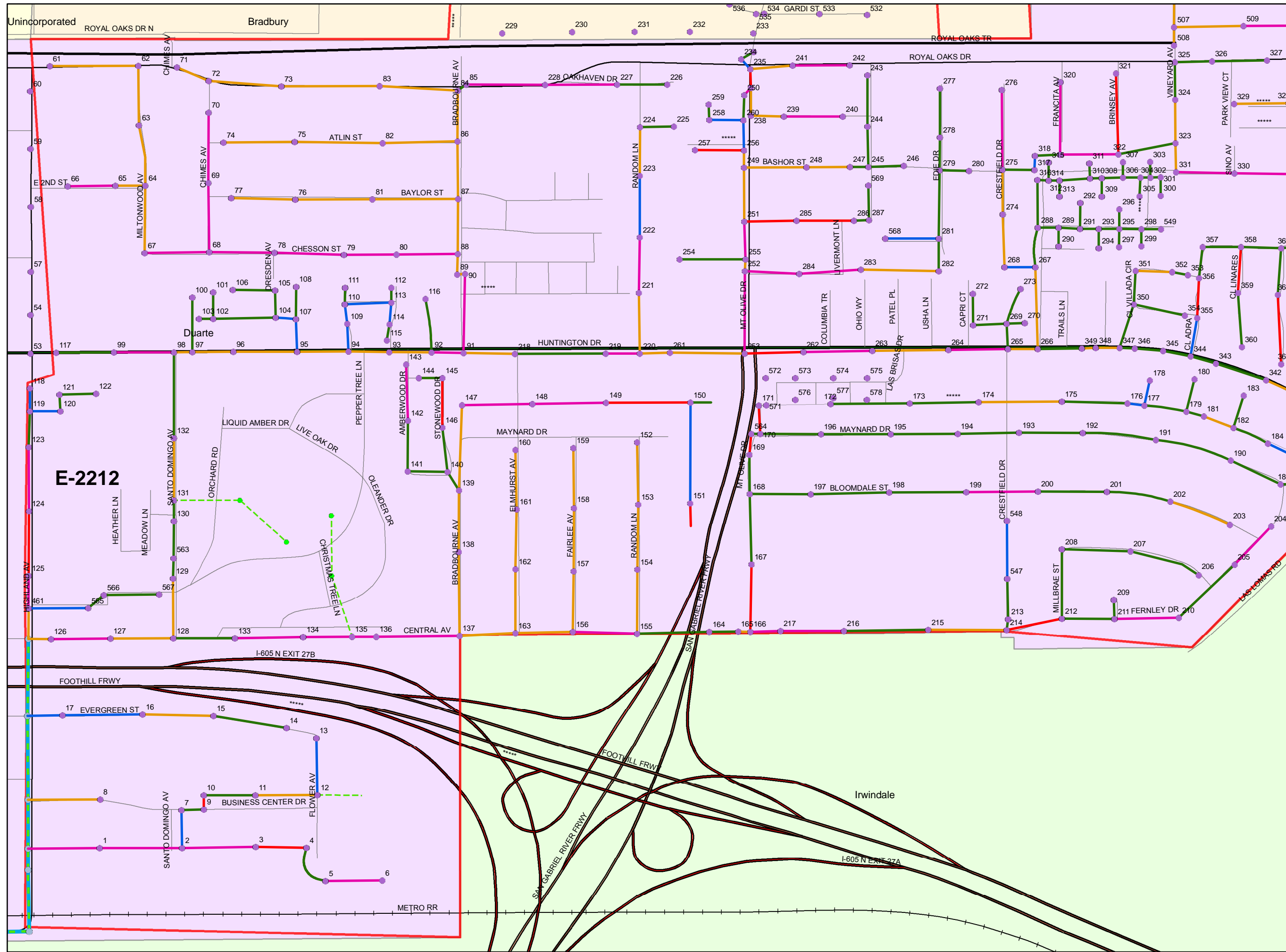
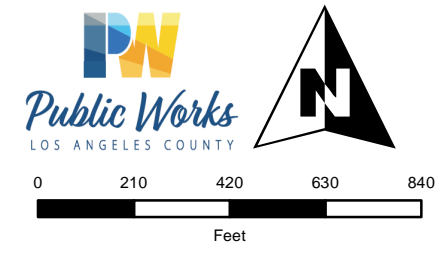


# ENCLOSURE 3

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

### QUICK STRUCTURAL RATING



E-2212

#### 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

##### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1112B

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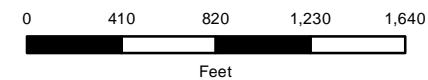
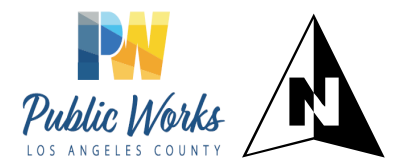
September 2018

# ENCLOSURE 3

## CCTV PROJECT Y0TV1112B

CITY OF DUARTE

QUICK  
STRUCTURAL  
RATING



### 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

#### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
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