

NA

August 8, 2019

TO: Nicholas Agbobu
Engineering, Budget, and Office Operations

FROM: Robert Swartz
Field Operations



**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
UNINCORPORATED COUNTY**

This memo is to inform you that the Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed a Sewer Condition Assessment Program of a portion of the unincorporated County's sewer system maintained by the District's North Yard.

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 the District'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 the ongoing Accumulative Capital Outlay Project.

Attach.

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

PROJECT NAME:	Y0TV1314A2	PROJECT MGR:	Eric Liu
PROJECT DATE:	07/23/2014	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	3, 5	MAP PAGE(S):	1090,1091,1092,1117,1118,1119,1120, 1122,1123,1152,1154,1187,1189,1190, 1191,1192,1193,1224,1231,1270,1274 1275
Report By:	Hai Luong	Report Date:	06/18/2019

INTRODUCTION

As part of the Sewer Condition Assessment Program, the Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the condition assessment of 173,419 feet or 13.5 percent of the unincorporated County's sewer system maintained by the District's North Yard.

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, Sample Lateral Notice Letter (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Priority Map (Enclosure 3)

The District has now completed the condition assessment of 483,561 feet of the unincorporated County's sewer system maintained by the District's North Yard. Previous Condition Assessment Reports dated January 20, 2010, January 10, 2011, August 29, 2012, January 28, 2019 have been provided to you. A copy of the reports can also be found in the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>.

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. Y0TV1314A2 included sewer lines located in the unincorporated County of Los Angeles and the cities of Agoura Hills, Calabasas, Hidden Hills, Malibu. Enclosed for your reference is an overview map of the project area within the unincorporated County (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 80.4 percent of the system televised in unincorporated County as part of Project No. Y0TV1314A2 was free of significant blockages or restrictions that would impede sewer flows. However, the remaining 19.6 percent of the pipe segments within the unincorporated County 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 TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	121,825	70.3	567
2: Minor to Moderate	17,541	10.1	84
3: Moderate	14,978	8.6	64
4: Significant	15,458	8.9	65
5: Most Significant	3,617	2.1	14
TOTAL	173,419	100.0	794

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 99.9 percent of the system televised has adequate capacity. Approximately 0.1 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. When the items have been identified to have high water levels due to sewer line capacity, a Yes is indicated in the

capacity column. These areas should be reviewed by the city for existing and future capacity needs.

A map showing the sewer lines with high water levels is provided in Enclosure 2.

Infiltration

Our inspection revealed that Infiltration were not detected in any pipe segment in the County’s sewers.

STRUCTURAL REPORT

Our inspection revealed that approximately 88.1 percent of the inspected pipe segments within the unincorporated County were free of severe structural defects. However, the remaining 11.9 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 58 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 TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	145,835	84.1	666
2: Minor to Moderate	8,188	4.7	36
3: Moderate	3,112	1.8	17
4: Significant	12,118	7.0	55
5: Most Significant	4,166	2.4	20
TOTAL	173,419	100.0	794

CONDITION ASSESSMENT PROJECTS

The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the unincorporated County maintained by the North Yard according to the following schedule:

<i>FISCAL YEAR</i>	<i>PROJECT NAME</i>	<i>LENGTH (FT)</i>	<i>PERCENTAGE OF SYSTEM</i>	<i>STATUS</i>
2005-2006	Y0TV0506F	137,627	10.6	COMPLETED
2006-2007	Y0TV0607C	1,757	0.1	COMPLETED
2008-2009	Y0TV0809D	38,974	3.0	COMPLETED
2009-2010	Y0TV0910A	12,583	1.0	COMPLETED
2009-2010	Y0TV0910B	4,177	0.3	COMPLETED
2009-2010	Y0TV0910D	38,027	2.9	COMPLETED
2013-2014	Y0TV1314A1	76,997	5.9	COMPLETED
2013-2014	Y0TV1314A2	173,419	13.5	COMPLETED
2018-2019	Y0TV1819C	448,183	34.6	FUTURE
2018-2019	Y0TV1819D	364,087	28.1	FUTURE
TOTAL		1,295,831	100.0	

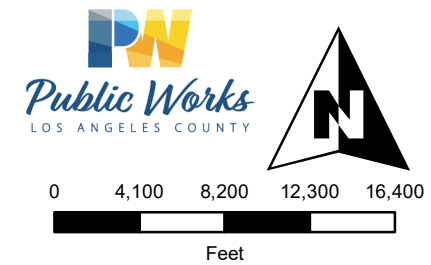
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT Y0TV1314A2

COUNTY UNINCORPORATED



Legend

Y0TV1314A2

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

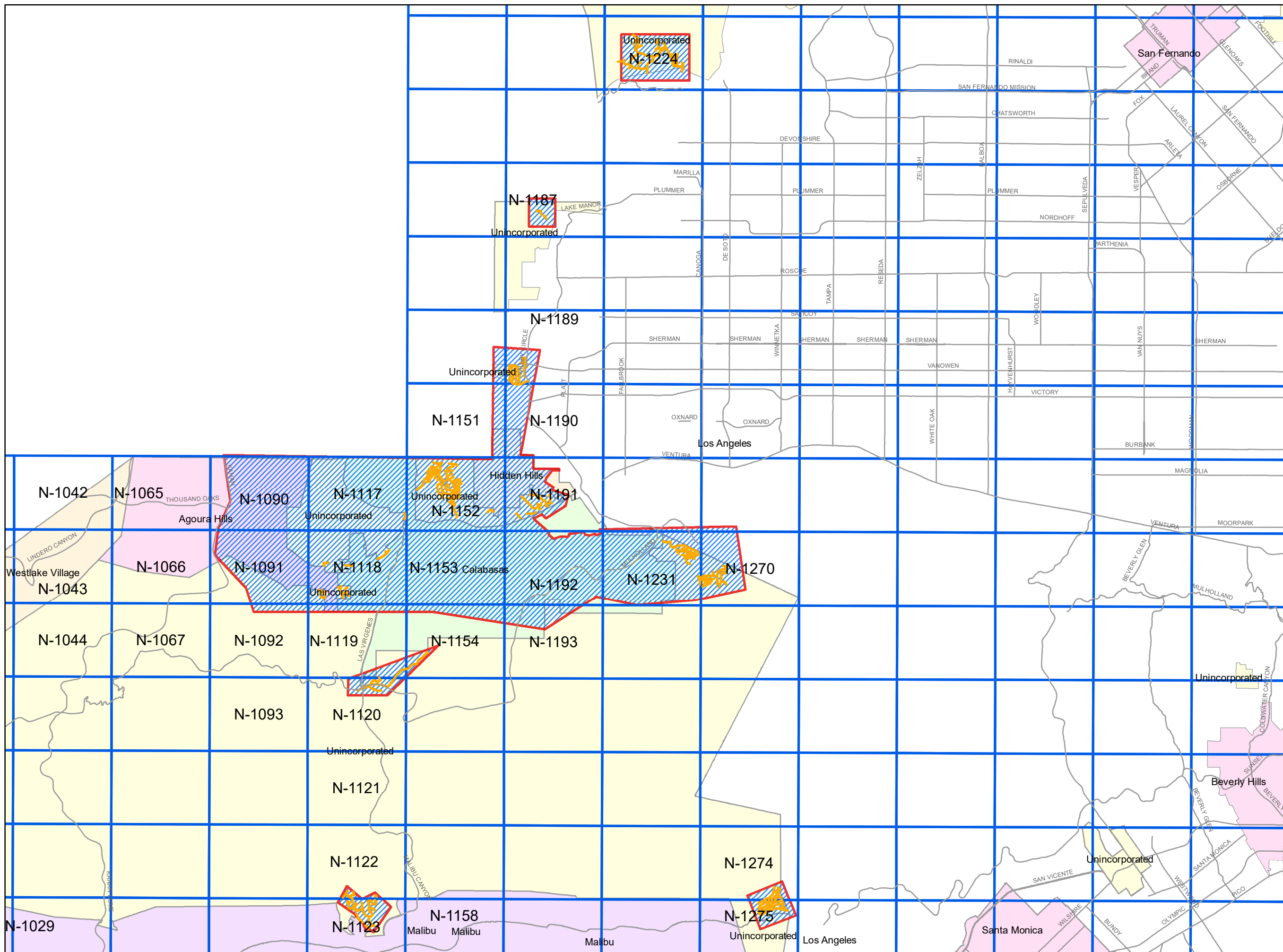
Non SMD Maintained MH

SMD Operations Maps

Y0TV1314A2

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JUNE 2019



ENCLOSURE 2:

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

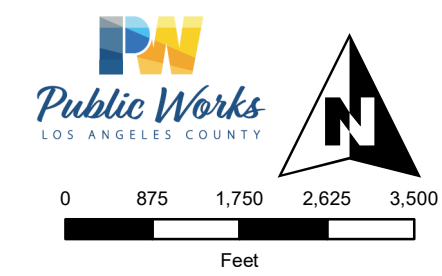
ENCLOSURE 2

CCTV PROJECT

Y0TV1314A2

COUNTY UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Manhole

- Manhole Type**
- Standard
 - ▲ DROP
 - Shallow
 - ◆ Trap
 - ⊗ Siphon

SMD Sanitary Sewers

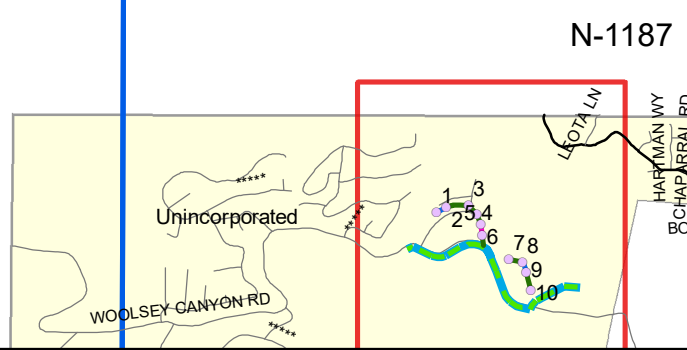
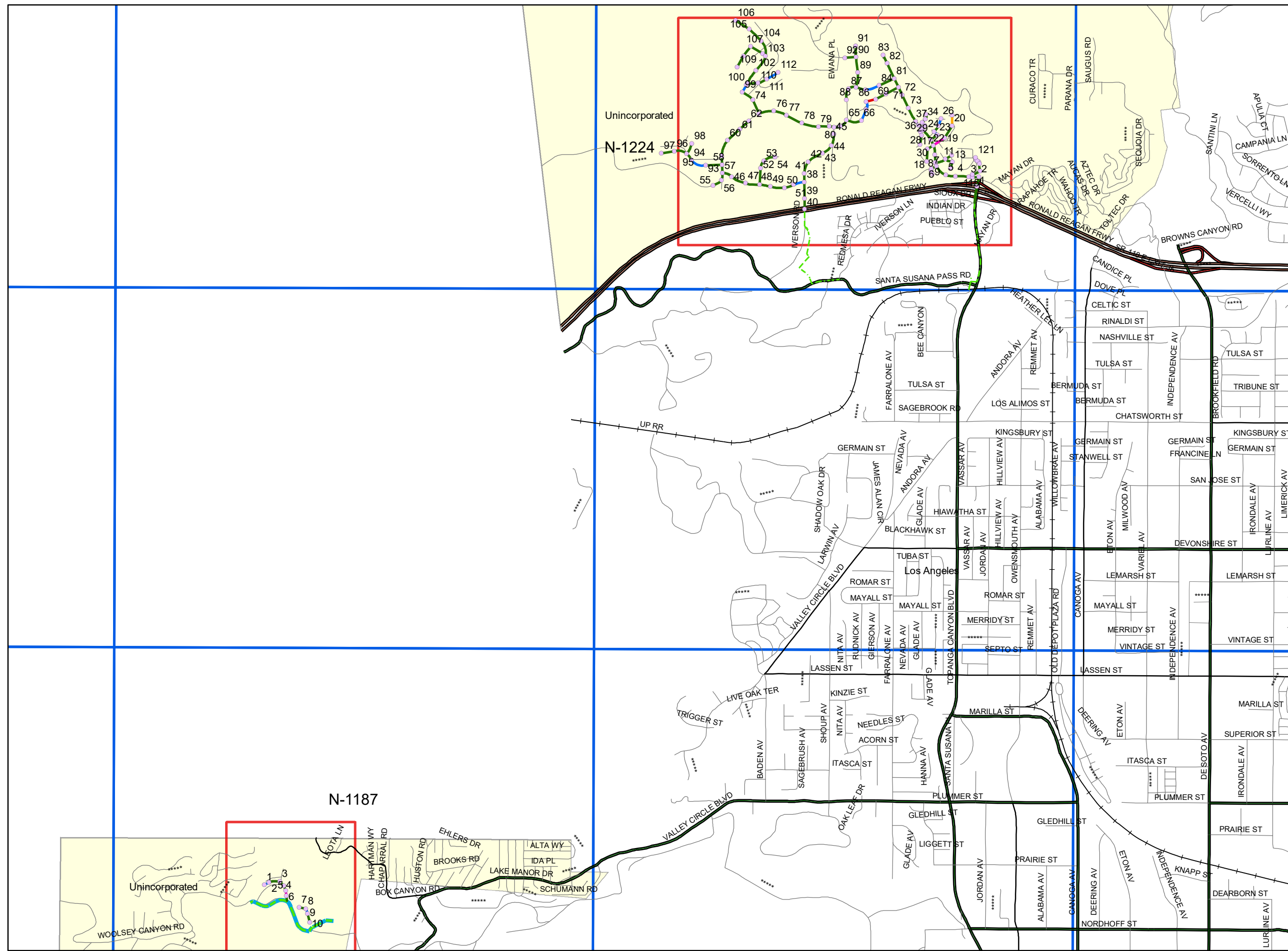
- QMR**
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 - 2: MINOR TO MODERATE
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 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT
 - SMD Pump Stations
 - SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1314A2

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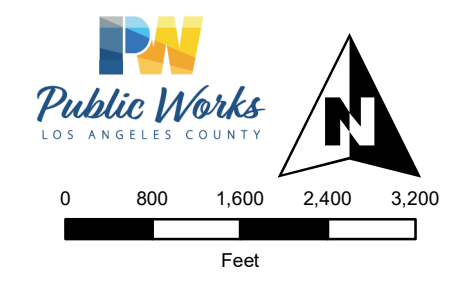
ENCLOSURE 2

CCTV PROJECT

Y0TV1314A2

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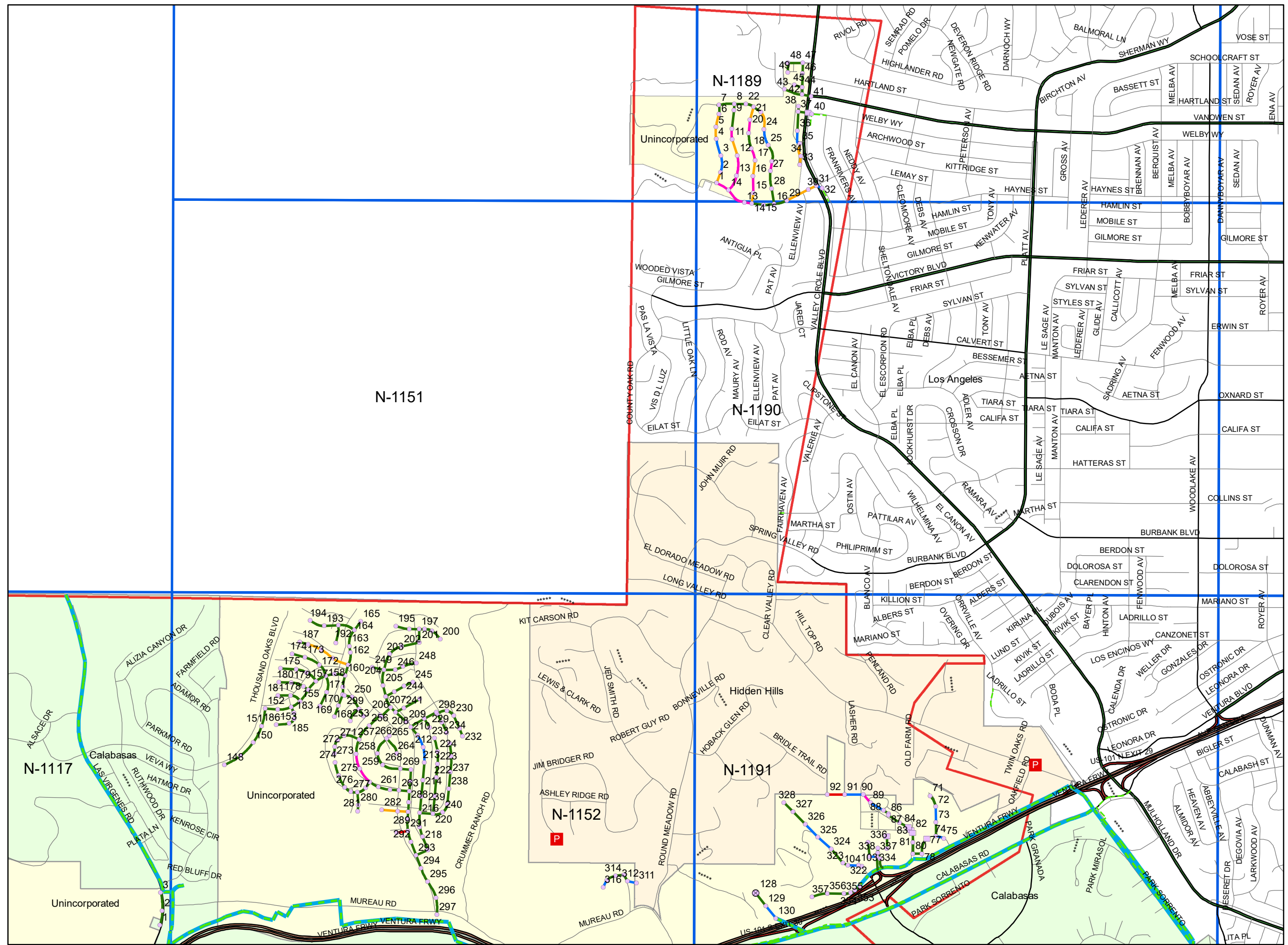
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 - WTP** SMD Treatment Plants

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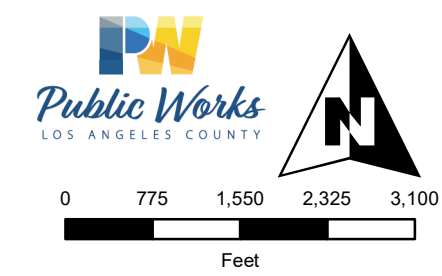
ENCLOSURE 2

CCTV PROJECT

Y0TV1314A2

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING
(QMR)



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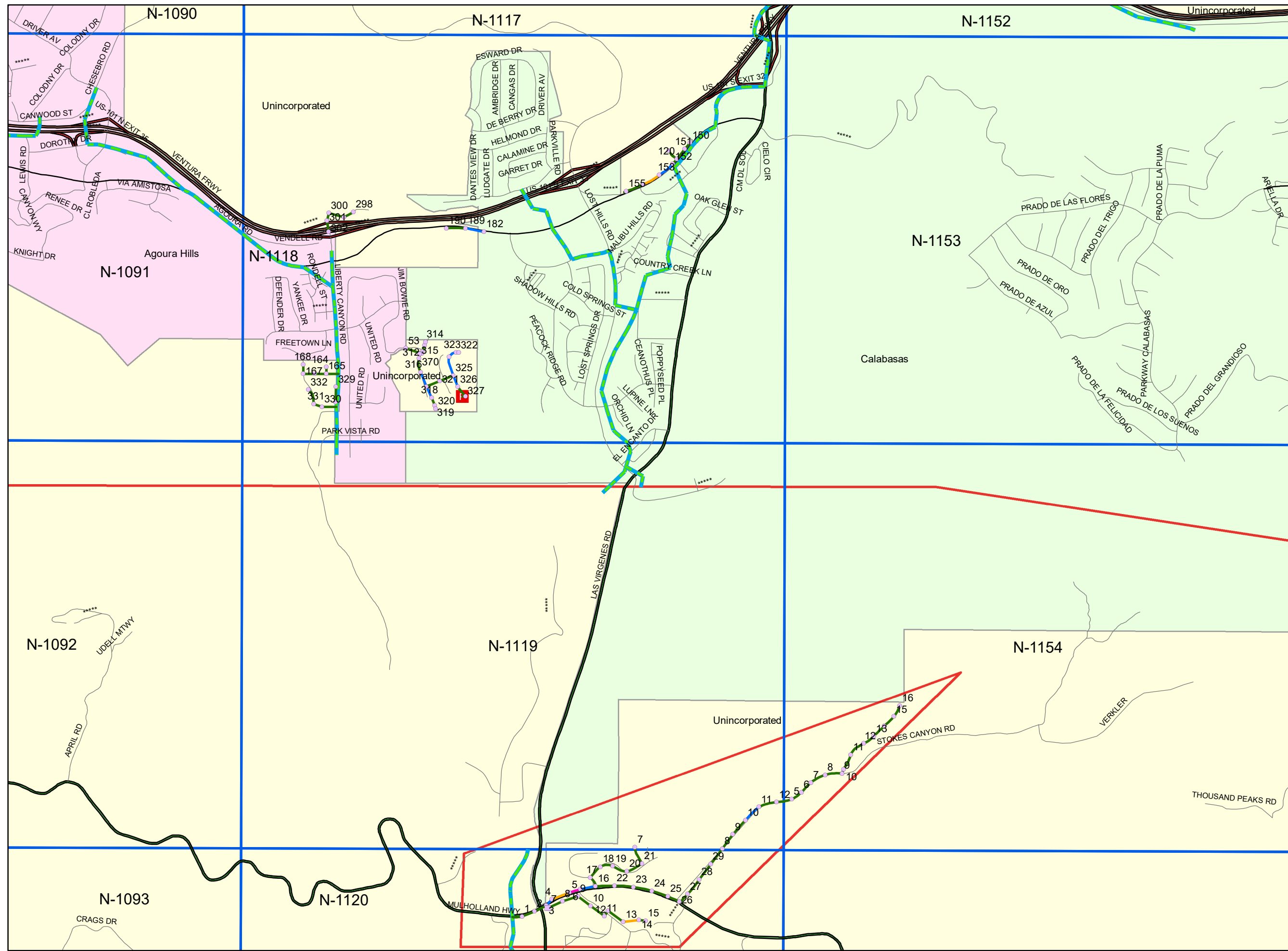
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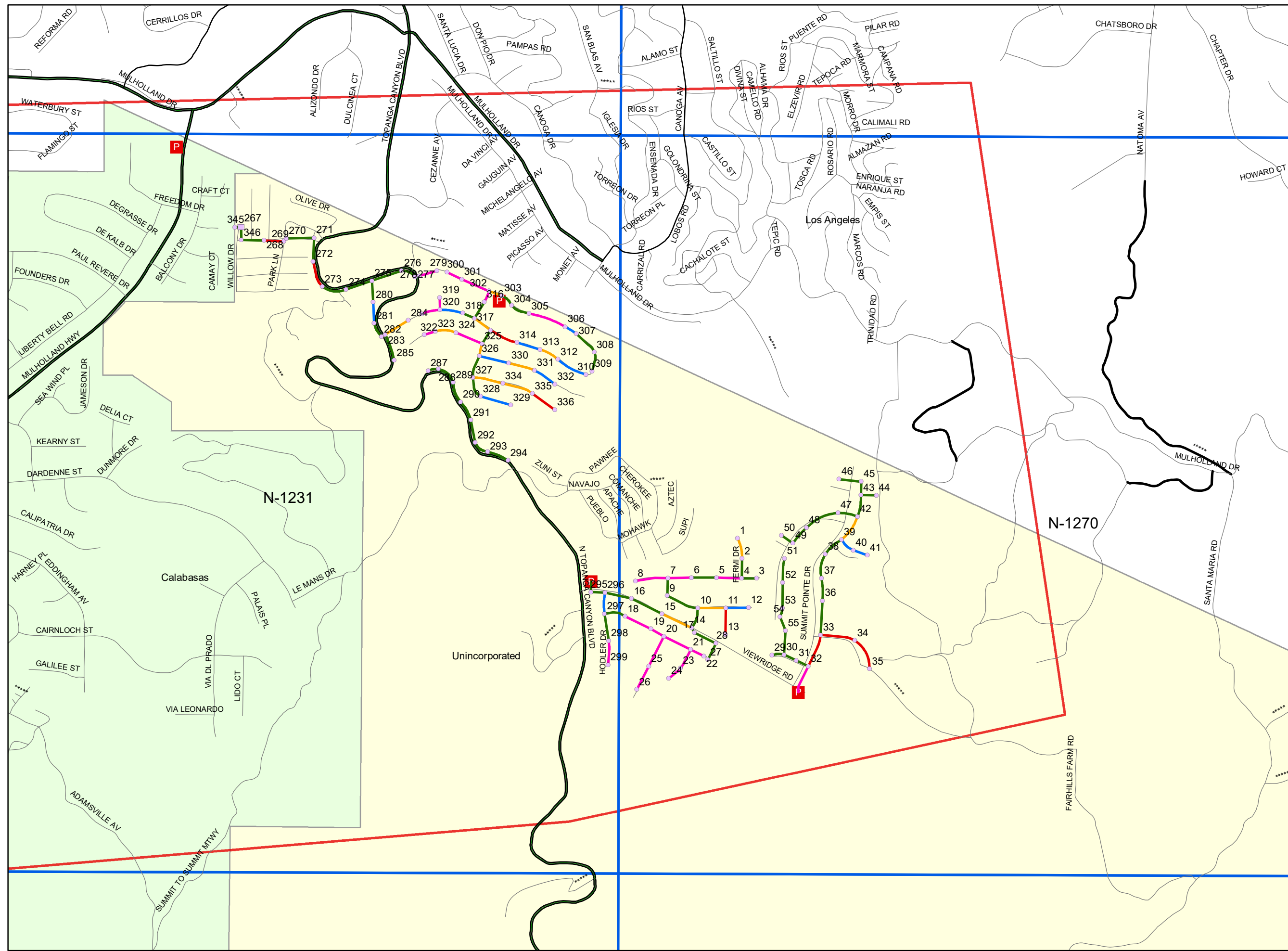
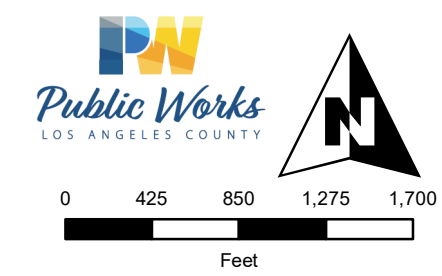
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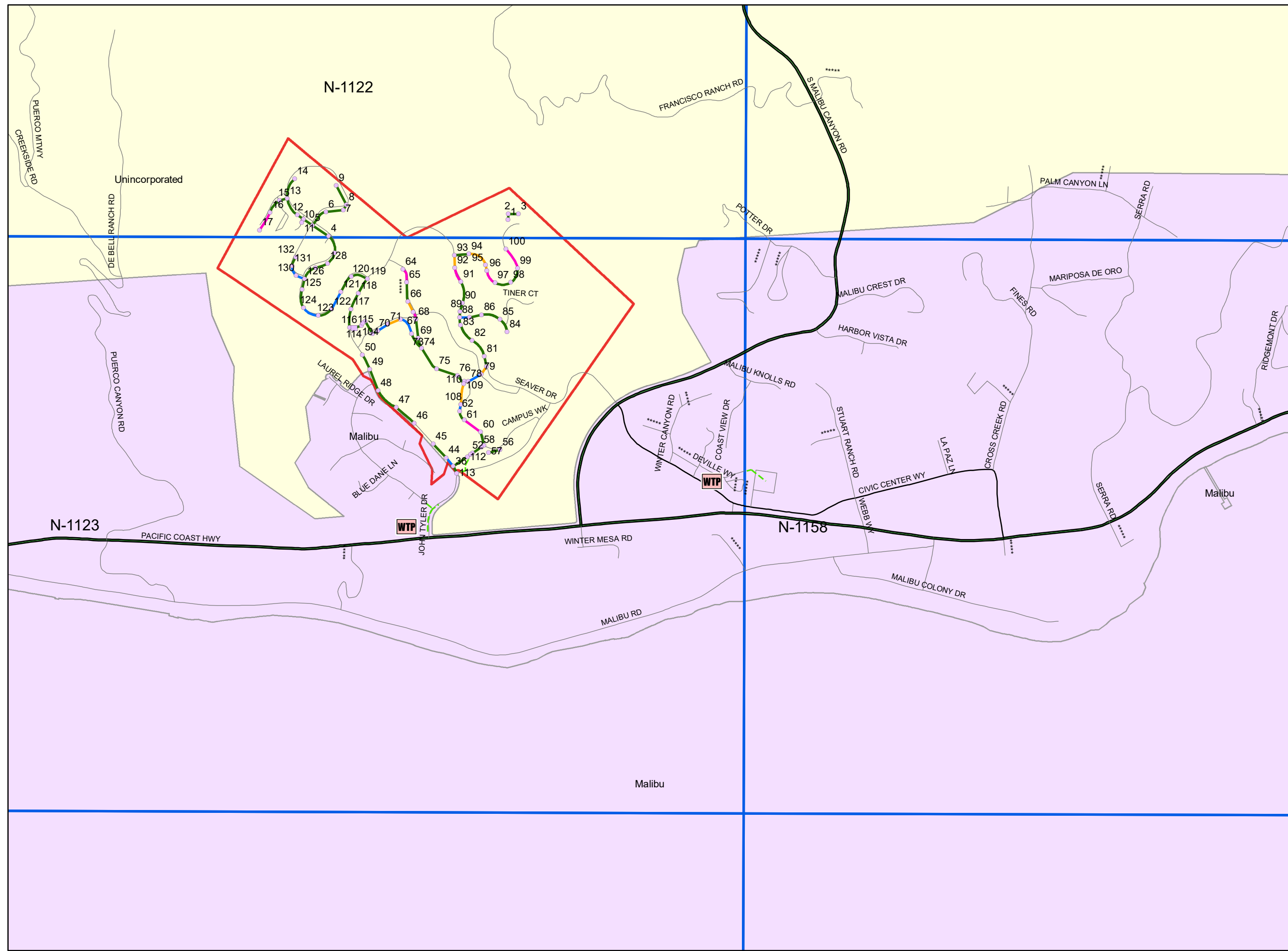
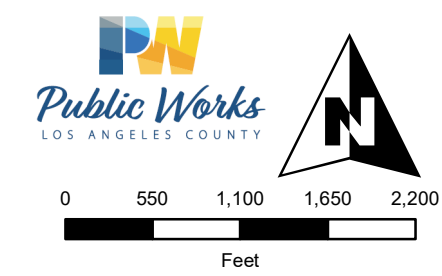
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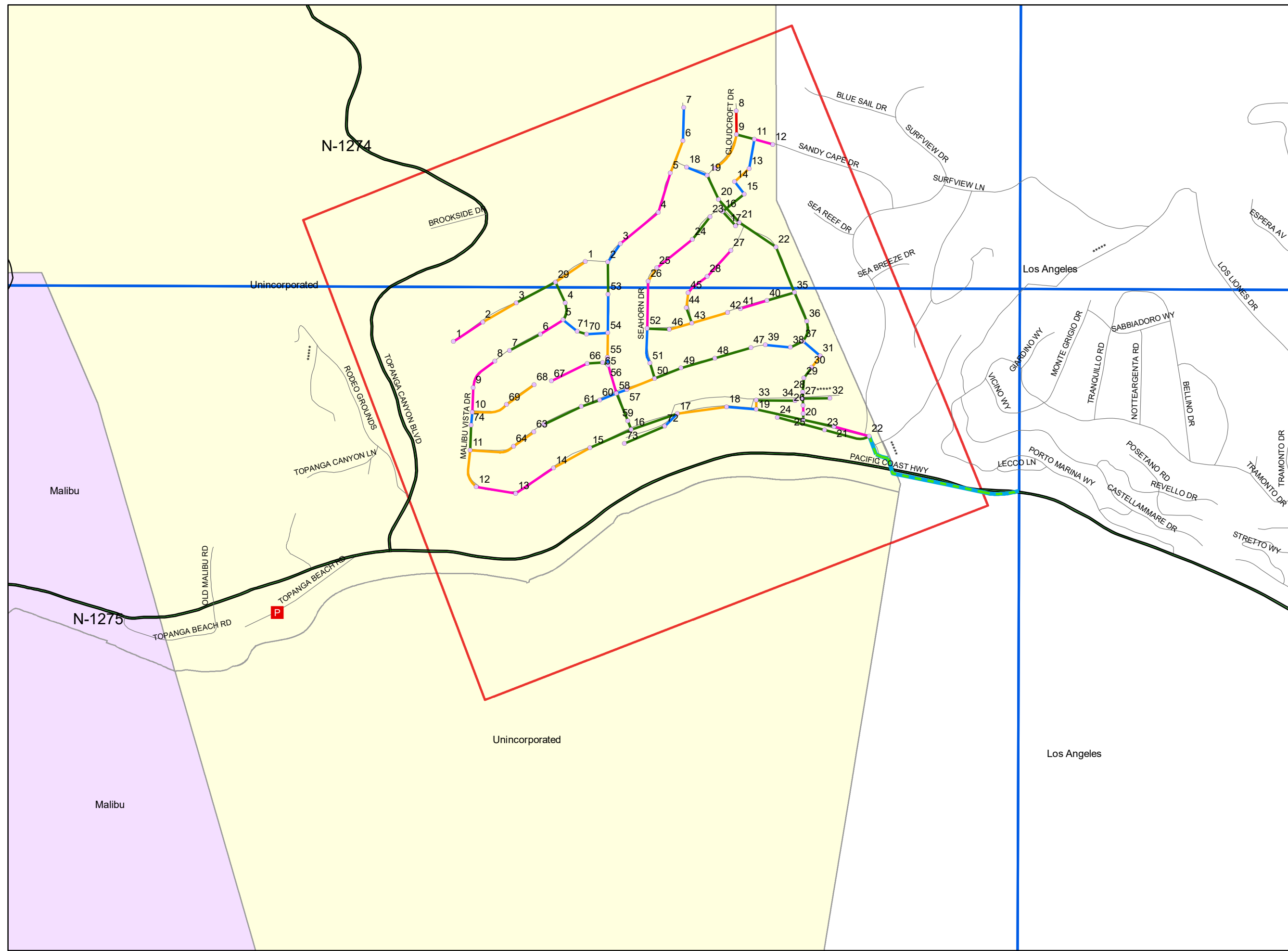
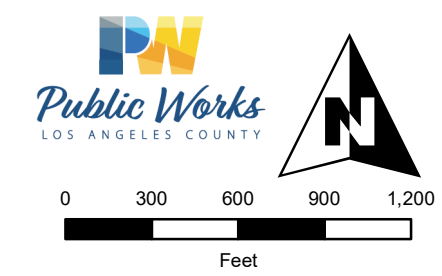
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ENCLOSURE 2
CCTV PROJECT
Y0TV1314A2

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ENCLOSURE 2
HIGH WATER LEVELS LIST
COUNTY UNINCORPORATED NORTH YARD (Y0TV1314A2)

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	3100	1270-0014	1270-0015	VIEWRIDGE RD	High water level (50%)	NO	Hydrojet
2	3121	1231-0331	1231-0330	AMBAR DR	High water mark (65%)	NO	Hydrojet
3	4100	1123-0061	1123-0060		High water level (50%)	NO	Hydrojet
4	5141	1231-0273	1231-0272	TOPANGA CANYON BV	High water mark (60%)	NO	Hydrojet

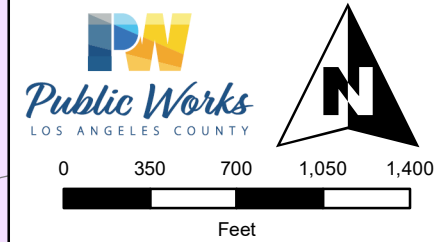
ENCLOSURE 2

CCTV PROJECT

Y0TV1314A2

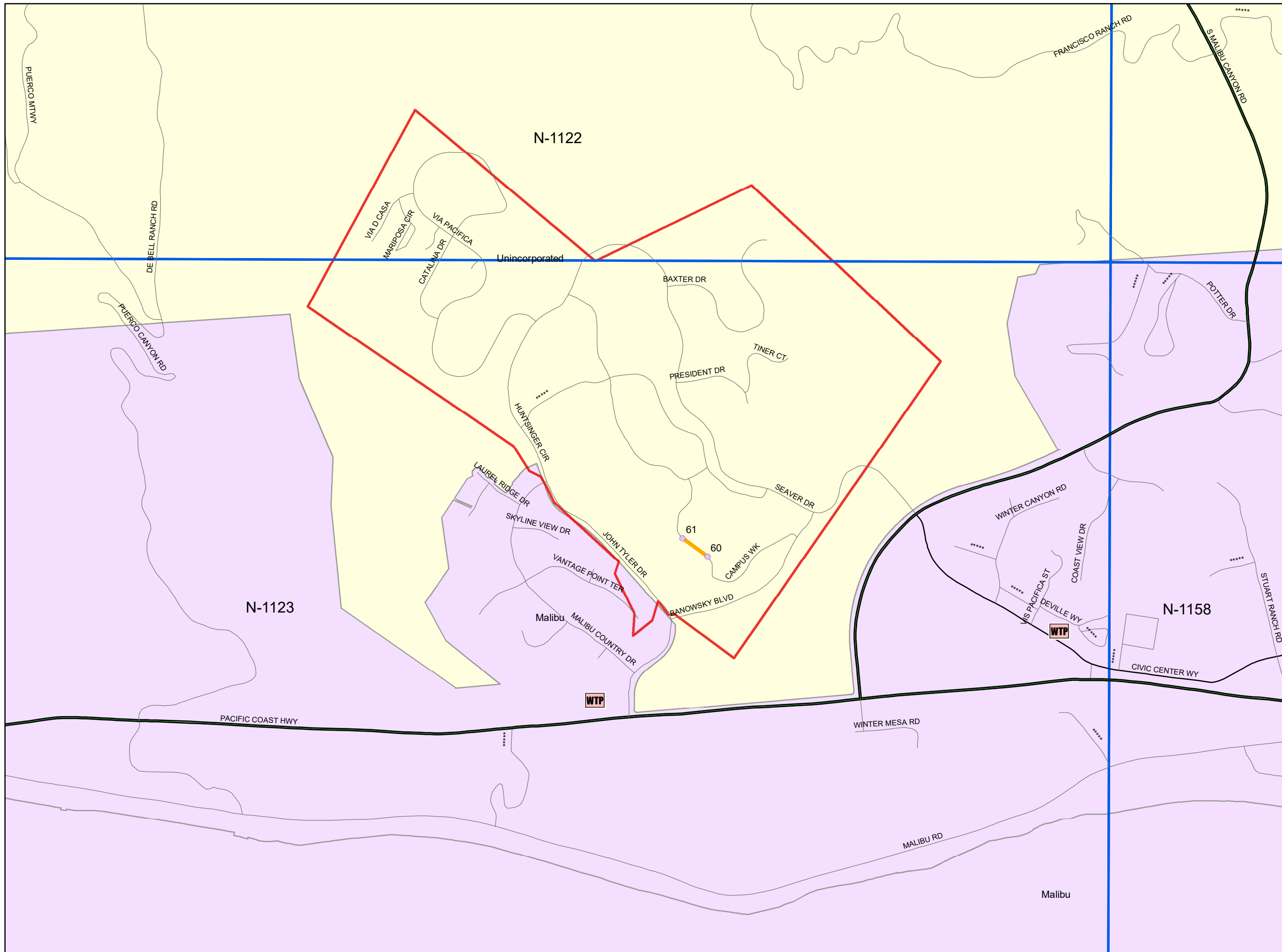
COUNTY UNINCORPORATED

High Water Levels



Legend

- High Water Level Sewerline
- SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:
 - Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1314A2



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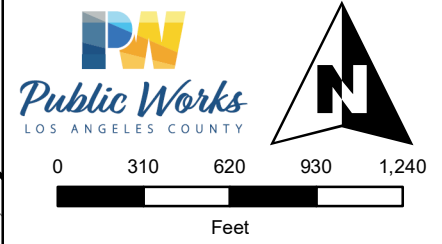
ENCLOSURE 2

CCTV PROJECT

Y0TV1314A2

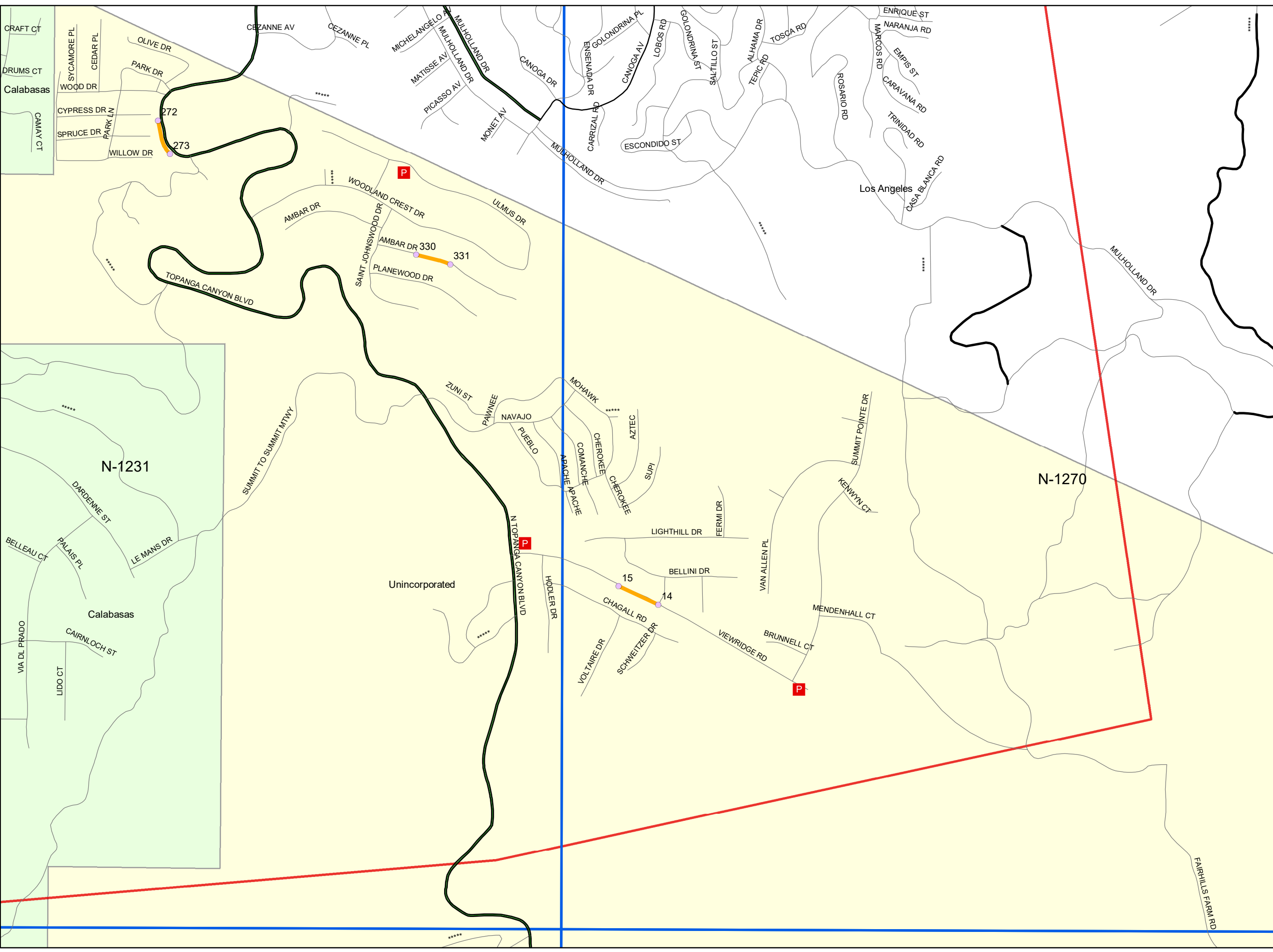
COUNTY UNINCORPORATED

High Water Levels



Legend

- High Water Level Sewerline
- SMD Pump Stations
- SMD Treatment Plants
- Trunk Sewerlines
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- Y0TV1314A2



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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.

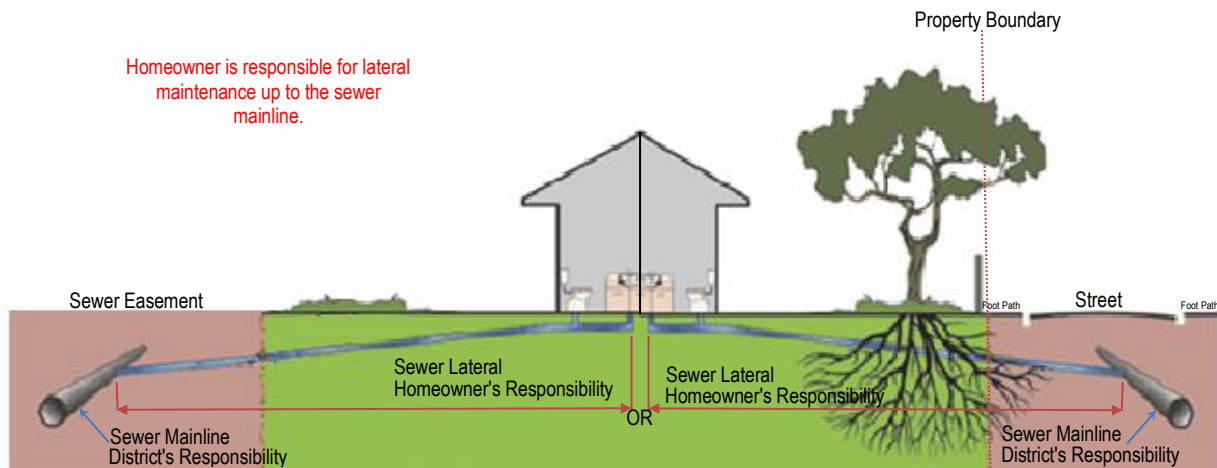
If you have recently cleaned your sewer later, no further action is necessary. If you have any questions, please contact Mr. Alex Villarama, Sewer Maintenance Division, at (626) 300-3374 or avilla@dpw.lacounty.gov.

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
UNINCORPORATED COUNTY OF LOS ANGELES NORTH YARD (Y0TV1314A2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	1275-0057	1275-0058	WAKECREST DR	Fracture	Lining
2	1122-0001	1123-0101	BAXTER DR	Deformed with Broken; Multiple Fracture	Point Repair
3	1231-0280	1231-0275		Broken; Fracture	Lining
4	1231-0330	1231-0326	AMBAR DR	Fracture	Point Repair
5	1231-0293	1231-0292	TOPANGA CANYON BV	Multiple Fracture	Lining
6	1275-0046	1275-0052	KINGSPORT DR	Fracture	Point Repair
7	1275-0071	1275-0070		Multiple Fracture	Lining
8	1275-0074	1275-0011	VISTA DR	Fracture	No action needed*
9	1231-0316	1231-0302	SAINT JOHNWOOD DR	Multiple Fracture	Lining
10	1224-0041	1224-0038	IVERSON RD	Fracture	Point Repair
11	1123-0076	1123-0109		Fracture	Point Repair
12	1123-0091	1123-0090	SEAVER DR	Fracture	No action needed*
13	1123-0060	1123-0059		Fracture	Point Repair
14	1275-0024	1275-0023	COASTLINE DR	Fracture	Point Repair
15	1120-0008	1120-0007		Fracture	Point Repair
16	1231-0292	1231-0291	TOPANGA CANYON BV	Fracture	No action needed*
17	1231-0300	1231-0301	ULMUS DR	Fracture	Point Repair; Repair MH Base
18	1191-0091	1191-0090		Fracture	Point Repair
19	1231-0291	1231-0290	TOPANGA CANYON BV	Fracture	No action needed*
20	1118-0163	1118-0120		Fracture	Point Repair
21	1191-0082	1191-0081		Multiple Fracture	Lining
22	1275-0017	1275-0018	COASTLINE DR	Fracture	No action needed*
23	1275-0018	1275-0019	COASTLINE DR	Fracture	Repair MH Base
24	1189-0007	1189-0008	WELBY WY	Multiple Fracture	Lining
25	1275-0026	1275-0025		Fracture	No action needed*
26	1275-0056	1275-0058	CASTLEROCK RD	Fracture	Repair MH Base
27	1275-0050	1275-0057	WAKECREST DR	Fracture	No action needed*

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ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
UNINCORPORATED COUNTY OF LOS ANGELES NORTH YARD (Y0TV1314A2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
28	1231-0302	1231-0303	ULMUS DR	Fracture	Point Repair
29	1275-0016	1275-0017	COASTLINE DR	Fracture	No action needed*
30	1231-0327	1231-0326	SAINT JOHNSWOOD DR	Fracture	No action needed*
31	1122-0003	1122-0002		Multiple Fracture	Lining
32	1275-0019	1275-0020	COASTLINE DR	Fracture	No action needed*
33	1275-0048	1275-0049	WAKECREST DR	Fracture	No action needed*
34	1231-0268	1231-0346		Fracture	No action needed*
35	1231-0269	1231-0268		Fracture	Point Repair
36	1275-0035	1275-0036	SURFWOOD RD	Fracture	No action needed*
37	1189-0006	1189-0007	RANDIWOOD LN	Fracture	No action needed*
38	1231-0321	1231-0320	WOODLAND CREST DR	Fracture	Point Repair
39	1231-0290	1231-0289	TOPANGA CANYON BV	Fracture	No action needed*
40	1231-0301	1231-0302	ULMUS DR	Fracture	Point Repair
41	1275-0052	1275-0051	SEAHORN DR	Fracture	No action needed*
42	1189-0014	1190-0013	KITTRIDGE ST	Fracture	No action needed*
43	1123-0067	1123-0068		Fracture	No action needed*
44	1274-0026	1275-0052	SEAHORN DR	Fracture	No action needed*
45	1275-0040	1275-0035	KINGSPORT DR	Fracture	No action needed*
46	1275-0008	1275-0009	MALIBU VISTA DR	Fracture	Point Repair
47	1120-0004	1120-0003	MULHOLLAND HY	Fracture	No action needed*
48	1231-0304	1231-0303	ULMUS DR	Fracture	No action needed*
49	1231-0326	1231-0325	SAINT JOHNSWOOD DR	Fracture	No action needed*
50	1231-0270	1231-0269		Fracture	No action needed*
51	1117-0002	1117-0003	LAS VIRGENES RD	Fracture	Point Repair
52	1123-0080	1123-0079		Multiple Fracture	Lining
53	1275-0064	1275-0011	WAKECREST DR	Fracture	No action needed*
54	1274-0004	1274-0003	SHOREHEIGHTS DR	Fracture	No action needed*

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QUICK STRUCTURAL RATING REPORT PRIORITY LIST
UNINCORPORATED COUNTY OF LOS ANGELES NORTH YARD (Y0TV1314A2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
55	1275-0021	1275-0022	COASTLINE DR	Fracture	No action needed*
56	1120-0012	1120-0011		Fracture	Point Repair
57	1231-0315	1231-0317	WOODLAND CREST DR	Fracture	No action needed*
58	1187-0005	1187-0006		Fracture	No action needed*
59	1120-0005	1120-0004	MULHOLLAND HY	Fracture	Point Repair
60	1123-0120	1123-0119	VIA PACIFICA	Fracture	No action needed*
61	1122-0002	1122-0001		Multiple Fracture	Lining
62	1123-0064	1123-0065		Fracture	No action needed*
63	1123-0110	1123-0109		Fracture	No action needed*
64	1275-0023	1275-0022	COASTLINE RD	Fracture	No action needed*
65	1275-0051	1275-0050	SEAHORN DR	Fracture	No action needed*
66	1275-0053	1275-0054	CASTLEROCK RD	Fracture	No action needed*
67	1120-0009	1120-0008		Fracture	Point Repair
68	1270-0006	1270-0007	LIGHTHILL DR	Fracture	No action needed*
69	1231-0289	1231-0288	TOPANGA CANYON BV	Fracture	Point Repair
70	1152-0312	1152-0311		Fracture	No action needed*
71	1231-0324	1231-0325	AMBAR DR	Fracture	Point Repair
72	1231-0294	1231-0293	TOPANGA CANYON BV	Fracture	No action needed*
73	1231-0313	1231-0314	WOODLAND CREST DR	Fracture	Point Repair
74	1118-0312	1118-0053	JIM BOWIE RD	Fracture	Point Repair
75	1275-0041	1275-0040	KINGSPORT DR	Fracture	No action needed*

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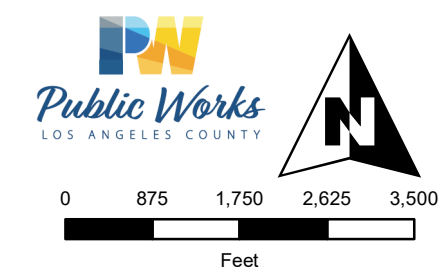
ENCLOSURE 3

CCTV PROJECT

Y0TV1314A2

COUNTY
UNINCORPORATED

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers QSR

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

SMD Manhole

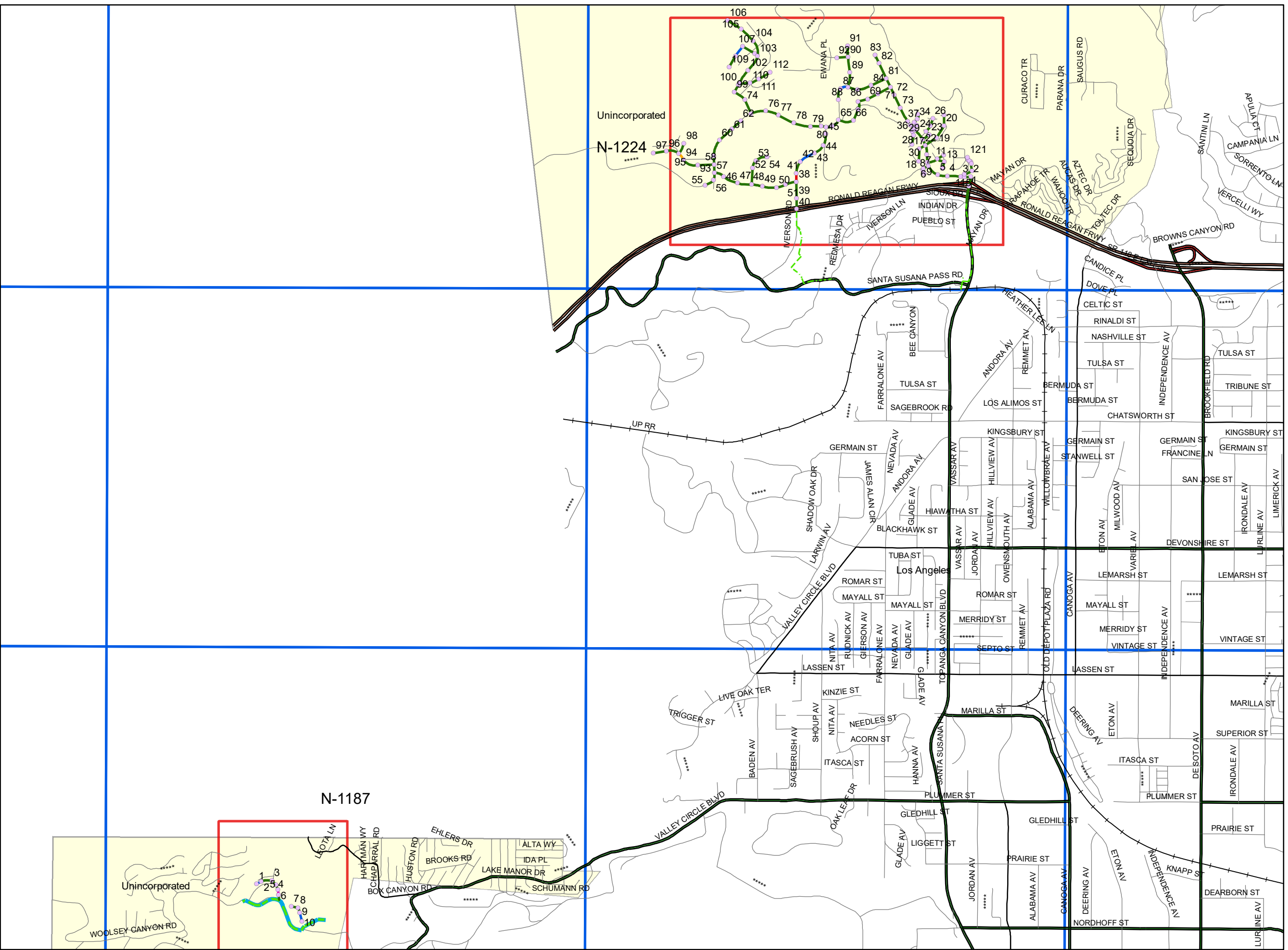
- Manhole Type**
- Standard
 - ▲ DROP
 - ◊ Shallow
 - ◇ Trap
 - ⊗ Siphon
 - P SMD Pump Stations
 - WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1314A2

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JUNE 2019



N-1187

Unincorporated

N-1224

Unincorporated

Los Angeles

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JUNE 2019

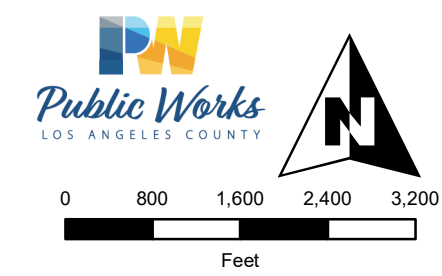
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CCTV PROJECT

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COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



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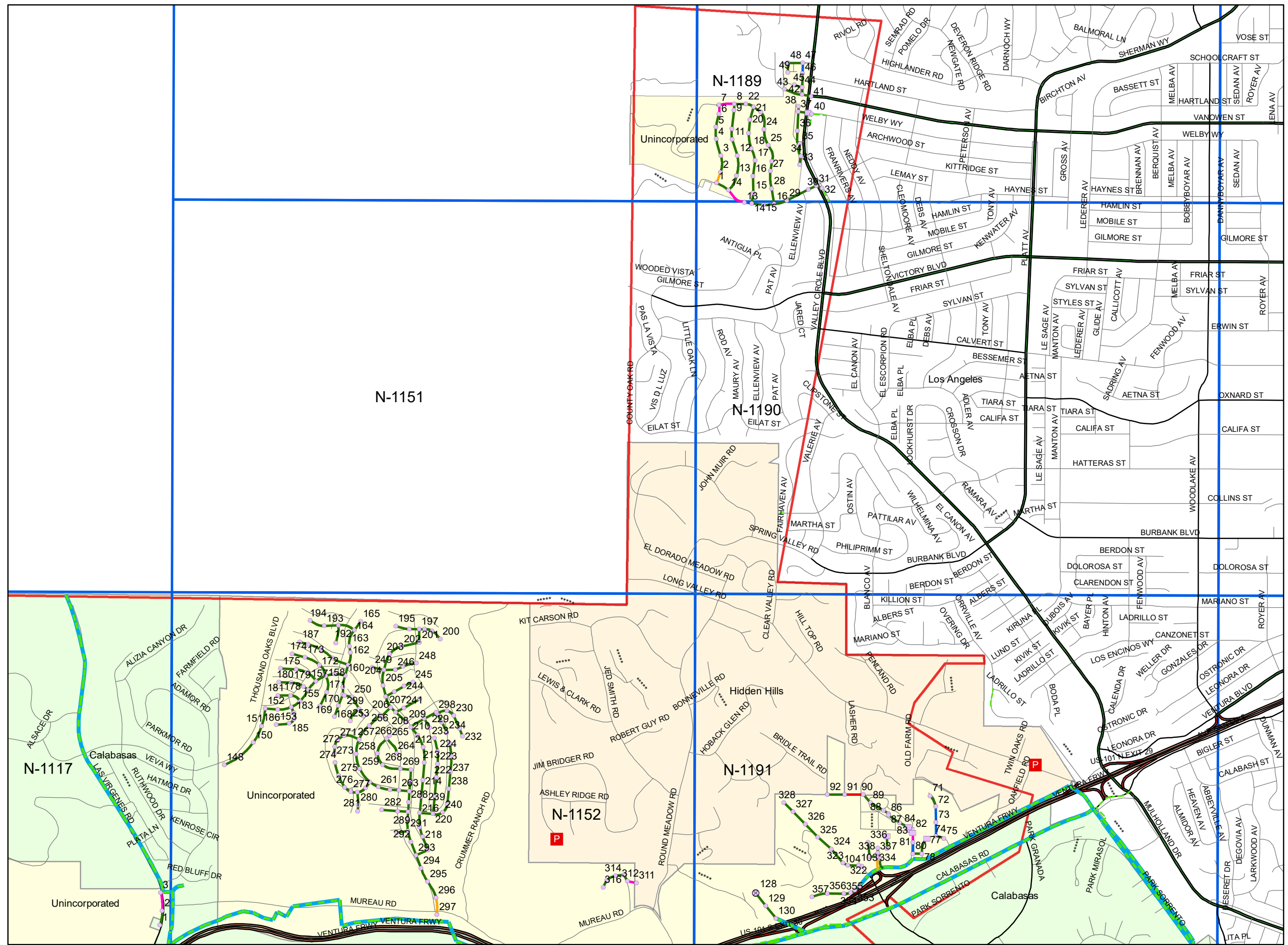
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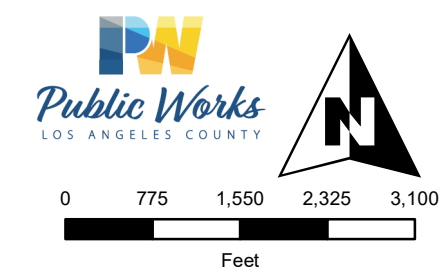
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CCTV PROJECT

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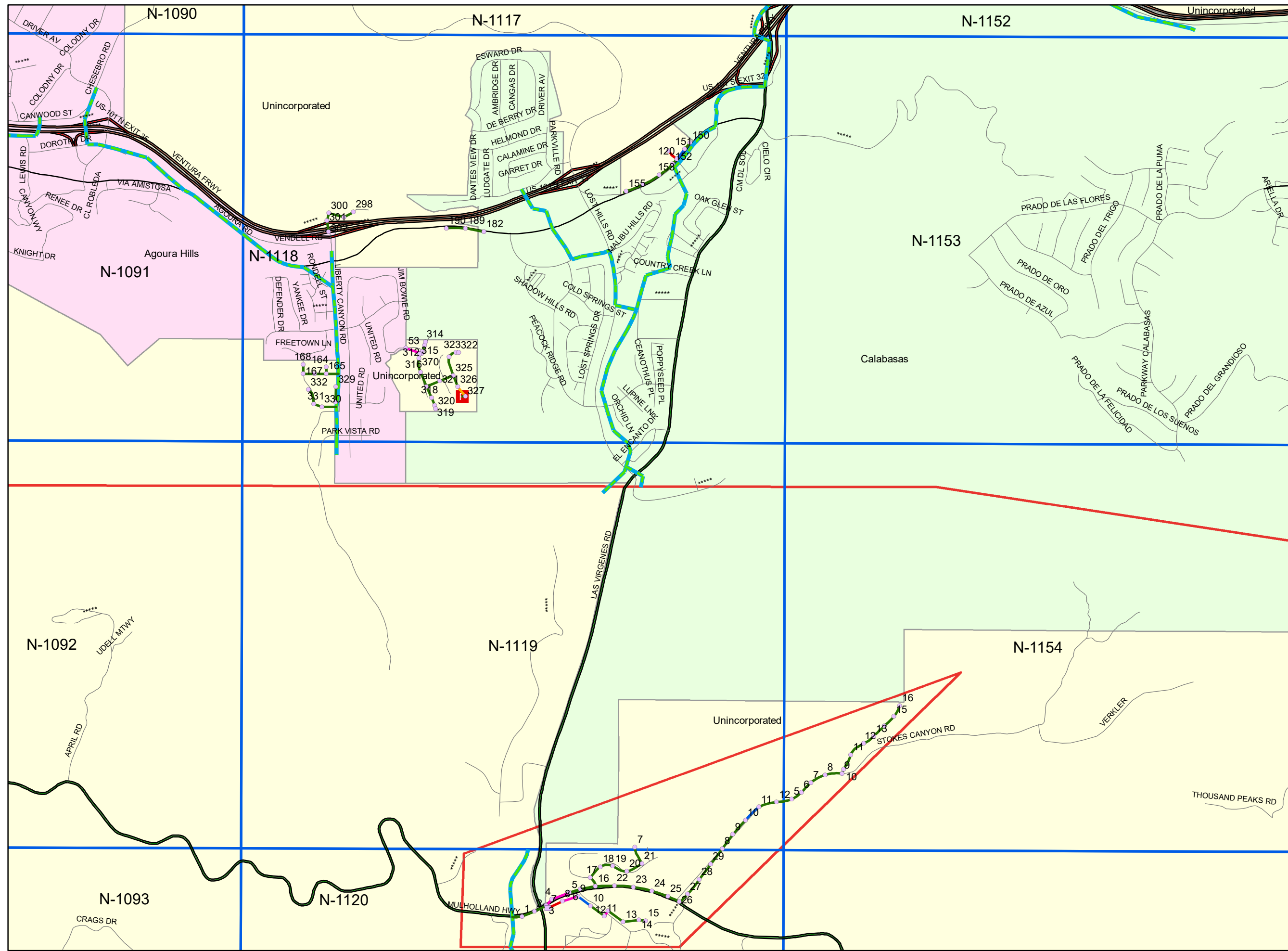
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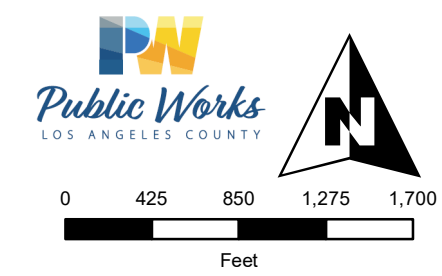
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COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



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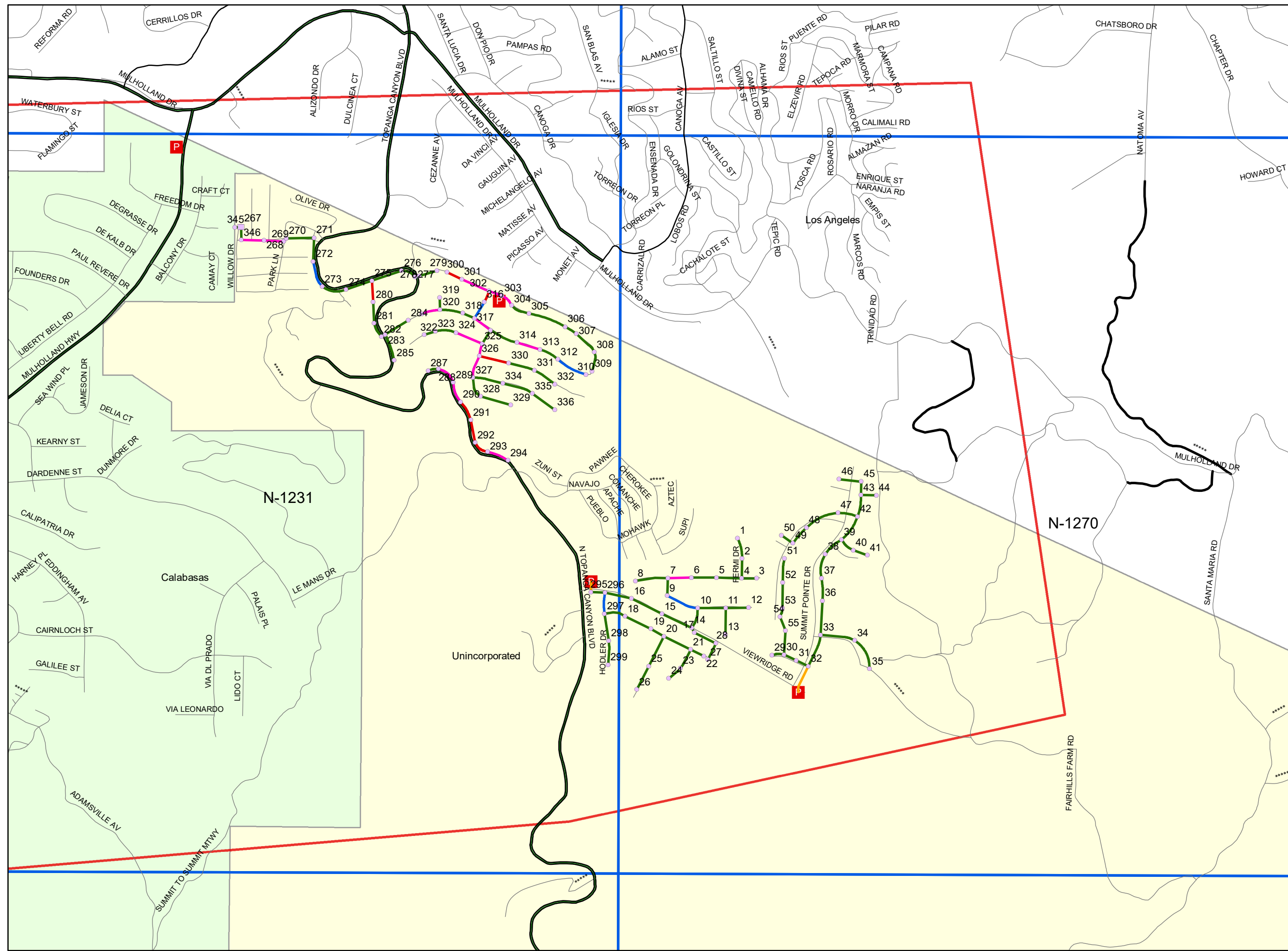
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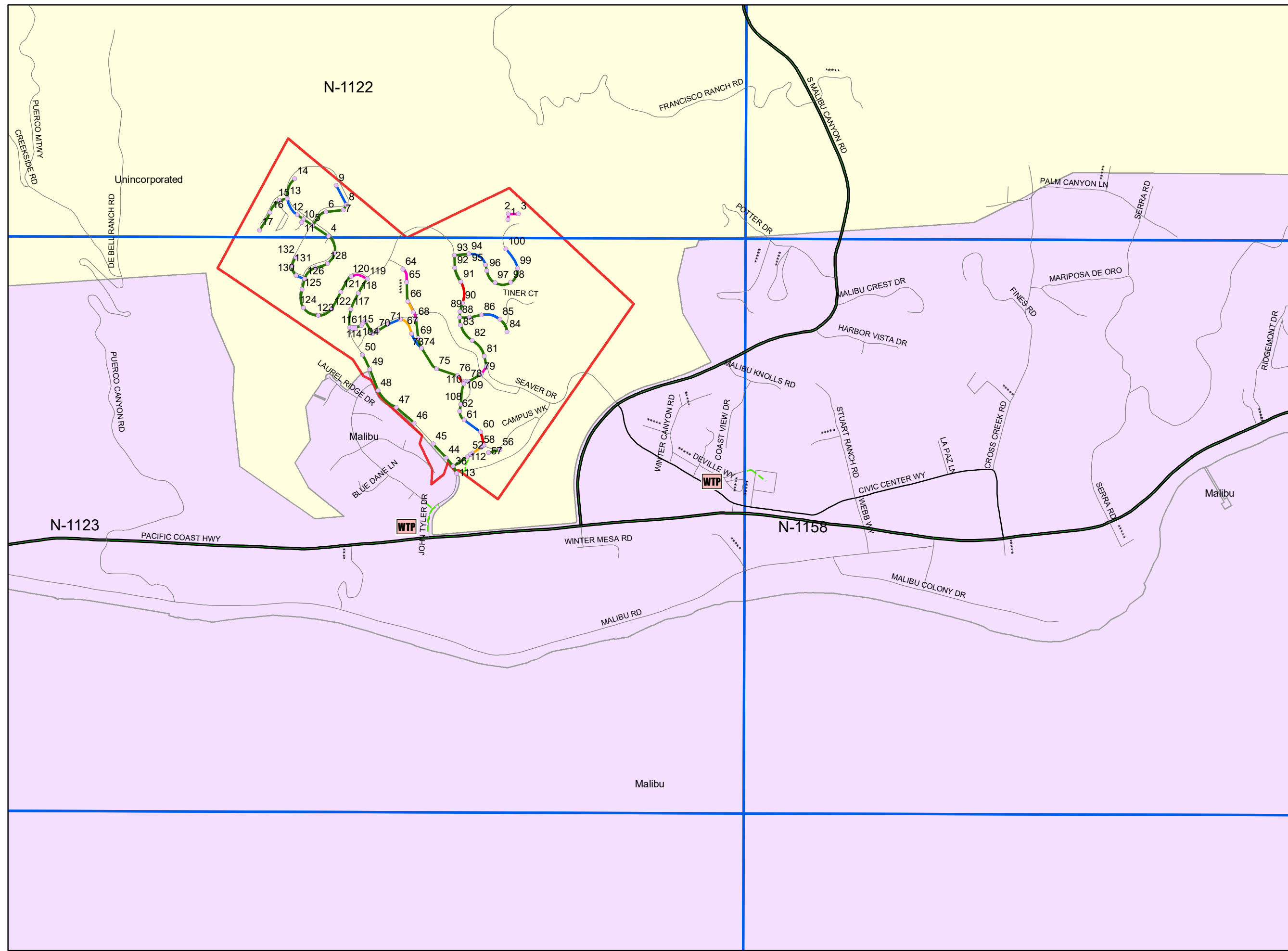
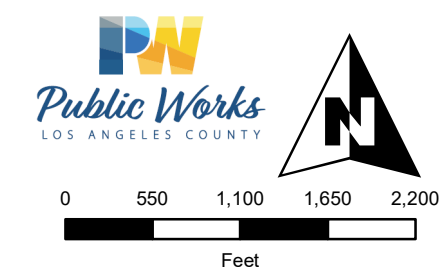


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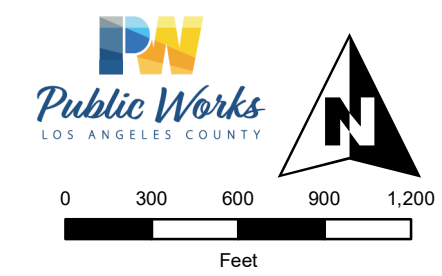
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