

SANITARY SEWER MASTER PLAN

FOR

CITY OF BALDWIN PARK

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Executive Summary

Introduction

The City of Baldwin Park is located in the central San Gabriel Valley region of Los Angeles County, California. Baldwin Park was incorporated in 1956 and became the 47th incorporated city in the State of California. As of the census of 2009, the City of Baldwin Park's population is 77,078. Most of the City was developed during the 1950's and, as a result, most of the City's sewer system is over 50 years old, with the majority of pipe diameters ranging from 8 inches to 21 inches. The sewer system is mostly comprised of Vitrified Clay Pipe (VCP).

Description of the Study Area

A majority of the City is completely built out. Most of the City was developed during the 1950's and, as a result, the basic street system, including building of the City's sewer system, also gradually developed during this period. With the growth of population and the development of business, wastewater flow increased. The City's wastewater system, however, has not kept pace with its rapid growth over the years.

The City's goal is to develop a comprehensive sewer master plan that identifies existing system capacity deficiencies, features, items/elements, and necessary upgrades and improvements or new systems based upon future growth and development as anticipated by the General Plan.

Existing System

The existing sewer system within the City boundary contains 583,842 linear feet (111 miles) of sewer lines and a total of 2,715 manholes.

Land Use

The City consists primarily of single-family or "R1" housing, intermixed with multiple family housing, general industrial and commercial uses and is built-out.

General Criteria

Establishing performance standards is an important part of evaluating existing wastewater collection systems as it forms the basis for system analysis and system improvement recommendations. These standards include methodology for estimating wastewater design flows and minimum design standards for the collection system pipes.

Average wastewater flows can be reasonably estimated from flow monitoring data, land use and their corresponding unit flow factors, as well as use of any available water consumption data. Peaking factors are needed for estimating peak dry weather and peak wet weather flows. Peak wet weather flows also include an allowance for Inflow/Infiltration (I/I). Collection system design standards include minimum pipe size, minimum flow velocity, and depth of flow to pipe diameter ratio. Finally, facility useful



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lives are needed for adequately scheduling replacement of the aging infrastructure.

Sewer Design Criteria

Design criteria are established to ensure that the wastewater collection system can operate effectively under all flow conditions. Each pipe segment must be capable of carrying peak flows without surcharging the system. Low flows must be conveyed at a velocity that will prevent solids from settling and blocking the system. At a minimum, all pipes should be 8 inches or larger in diameter and the velocity of flow should be greater than 2 feet per second at average flow. This velocity will prevent deposition of solids in the sewer. A velocity of 3 feet per second is desired at peak dry weather flow to re-suspend any materials that may have already settled in the pipe. Per Los Angeles County standards, when an existing sewer system is to be relieved and also retained as part of the system, the relief method should maintain a velocity of 3 feet per second if possible, but not less than the minimum velocity for which the sewer was designed.

Drainage Basin Boundaries

For this study, AAE utilized the City's sewer atlas maps and record drawings as well as the City's GIS database to delineate the basin boundaries. Several small and large basins were delineated. These basins were then used for the development of the hydraulic model.

System Analysis

The analysis of the City's existing gravity sewer system was based upon the calculated peak dry weather flows. Separate analyses were run using the existing and ultimate unit flow factors. Analysis was based upon the latest zoning data obtained from the City. The hydraulic models assume that the City is fully developed. We also reviewed the CCTV'd lines for structural deficiency, which was completed for approximately 50% of City sewer system. The total length of sewer lines found to be potentially capacity deficient under ultimate conditions and structurally deficient was approximately 17,000 feet, equivalent to approximately 3% of the City sewer system.

Maintenance

The City of Baldwin Park is a part of the Consolidated Sewer Maintenance District (CSMD), and currently contracts with Los Angeles County Department of Public Works (LADPW) for their sanitary sewer cleaning and industrial waste enforcement. Additionally, as a part of the CSMD, the City is included in the County's Accumulative Capital Outlay Program (ACO Program). The ACO program identifies, rehabilitates and reconstructs sewer pipes within the CSMD that have structural deficiencies. However, it is still the responsibility of the City to implement policies and procedures identified herein that are not covered by the CSMD.

All maintenance is currently done by Los Angeles County Public Works CSMD. A comprehensive maintenance program is an important tool in assuring reliable system operation. This not only includes regular inspections and preventative maintenance, but

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also good record keeping. Accurate records are the backbone of any maintenance operation. They can be used for many purposes including: scheduling regular maintenance activities; allocating manpower; budgeting; pinpointing persistent problems; tracking equipment performance and maintenance history; and the identification of equipment which may be showing signs of failure. The Sewer Geographic Information System prepared as part of this study can be used to supplement the County's current maintenance program.

Capital Improvement Program General

The primary goal of the Capital Improvement Program (CIP) is to provide the City of Baldwin Park with a long-range planning tool for implementing its sewer infrastructure improvements in an orderly manner and providing a basis for financing of these improvements. To accomplish this goal, the program is phased based upon the implementation cost of the facilities, the quantity of work the City can reasonably administer each year, and the funds available for these projects. The needed capital improvements were identified as a result of assessment of the system through capacity analyses and available physical TV inspections.

Capital Improvement Project Priorities

The capital improvement projects were selected primarily with consideration of the health and safety of the public and protection of the environment by minimizing the possibility of overflows. The projects were prioritized based upon the following:

- The highest priority has been assigned to the projects that will help alleviate known maintenance problems and line segments that have been shown through CCTV to be structurally deficient.
- The second priority has been assigned to projects identified by hydraulic evaluations and modeling with existing capacity deficiencies.
- The third priority would be replacement of aged pipelines.

Capital Improvement Program

The recommended CIP has been based upon the best information currently available. It should be updated as new information becomes available from sources such as CCTV inspections and from maintenance crew observations. The CIP should also be updated based on any major changes in the City's General Plan. The project priorities may be adjusted to take advantage of concurrent construction such as street paving projects or adjacent infrastructure work. The recommended Capital Improvement Program has been summarized in Table 7.

Wastewater Utility Financing

Based on our analysis, there are four main options for financing the CIP and O&M costs identified herein. These are:

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1. Set Aside General Fund
 - a. Use reserve funds to pay for project.
 - b. Spread the construction cost over 5 years.
2. Borrow Against General Fund
 - a. Project to be completed in 5 years.
 - b. Repayment to the General Fund to be done in 10 – 20 years.
3. Enact Development Impact Fee
4. Establish Enterprise Funds
 - a. Sewer Reconstruction/Maintenance Assessment District
 - i. Council by resolution authorizes staff to prepare engineer's report
 - ii. Council approves the engineer's report and sets a public hearing
 - iii. Council approves the establishment of an assessment district
 - iv. Subject to approval, Staff sends an assessment diagram and assessment reports to the County Assessor's Office for inclusion in the property tax role
 - v. Issuance of the bonds
 - b. Utilize General Obligation Bond Financing
5. Sewer Connection Fees
 - a. Rate Study

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Recommended 5-Year Capital Improvement for City Owned Sewer System

Table 7

Year	Replacement of Structurally Damaged Sewer Line	Replacement of Potentially Hydraulically Deficient Sewer Line	Total Cost per 2010 Cost	Total
First Year: 2010-2011	\$162,000	\$827,000	\$989,000	\$989,000
Second Year: 2011-2012	\$0	\$941,905	\$941,905	\$989,000
Third: Year 2012-2013	\$162,000	\$735,052	\$897,052	\$989,000
Fourth Year: 2013-2014	\$0	\$854,335	\$854,335	\$989,000
Fifth Year: 2014-2015	\$0	\$812,304	\$812,304	\$987,361
Total	\$324,000	\$4,170,597	\$4,494,597	\$4,943,361



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Introduction

Baldwin Park began as part of cattle grazing land belonging to the San Gabriel Mission. It eventually became part of the Rancho Azusa de Dalton and the Rancho La Puente properties. The community became known as Vineland in 1880. By 1906 it changed to Baldwin Park. It was named after Elias J. "Lucky" Baldwin. In 1956 Baldwin Park became the 47th incorporated city in the State of California.

Baldwin Park is a densely populated city with an area of 6.8 square miles and a population of 77,078 (2009 US Census Data). City of Baldwin Park's Boundary Map is shown in Exhibit 1.

Description of the Study Area

A majority of the city is completely built out. Most of the City was developed during the 1950's and as a result, the basic street system, including building of the City's sewer system, also gradually developed during this period. With the growth of population and the development of business, wastewater flow increased. The City's wastewater system however has not kept pace with its rapid growth over the years. There are approximately 118 miles of mostly vitrified clay sewer pipes in the City of Baldwin Park, in which about 111 miles is the City's sewer lines and the other 7 miles belong to LA County's sewer lines. These City pipes range mostly from 8" to 21" in diameter.

Existing System

The existing sewer system within the City boundary contains 583,842 linear feet of sewer lines and a total of 2,175 manholes. Table 1 summarizes the City's sewer system by diameter and length. Table 2 shows a sample of the inventory of sewer lines and manholes within Baldwin Park. See Appendix A for complete listing of the inventory of all sewer lines, along with two map exhibits, Exhibit A-1 and Exhibit A-2, which identify the location of each sewer line.

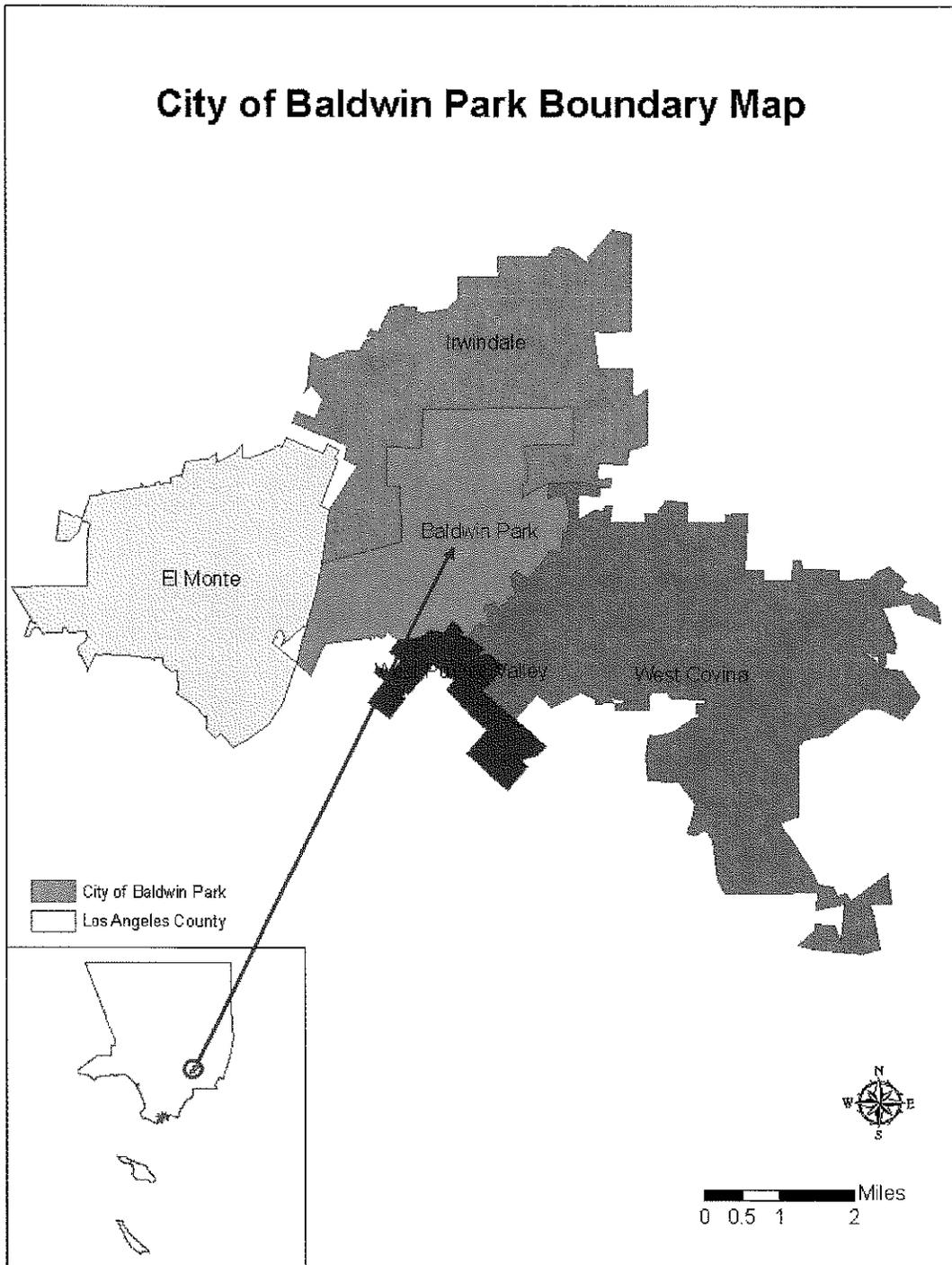


Exhibit 1 – City of Baldwin Park Boundary Map

**Table 1
System Summary by Size and Length**

Diameter (in)							Total Length (ft)
6	8	10	12	15	18	21	
929	475,498	40,103	45,171	26,269	3,885	347	583,842

**Table 2
Sanitary Sewer System Inventory (Sample)**

OBJECT ID	LA County Segment ID	Street	Diameter (in)	Length (ft)
186	0199/2214-0200/2214	LOS ANGELES ST	8	280
187	0013/2168-0014/2168	BRESEE AV	8	274
188	0306/2168-0307/2168	ANADA ST	8	219
189	0072/2214-0073/2214	CALAIS ST	8	217
190	0301/2214-0302/2214	BALDWIN AV	8	336
191	0118/2214-0144/2214	ROCKENBACH ST	8	134
192	0139/2214-0140/2214	OHIO ST	8	200
193	0065/2214-0066/2214	LARRY AV	8	349
194	0456/2214-0457/2214	BOGART AV	8	267
195	0229/2215-0230/2215	CENTRAL AV	8	168
196	0241/2214-0697/2214	LA RICA AV	8	53
197	0698/2169-0367/2168	CENTER ST	15	343
198	0386/2168-0387/2168	N/A	15	96
199	0719/2169-0720/2169	BESS AVE	8	235
200	0465/2169-0466/2169	FOSTER AVE	8	260
201	0388/2169-	GARVEY AV	8	133

Table 2 - Continued
Sanitary Sewer System Inventory (Sample)

OBJECT ID	LA County Segment ID	Street	Diameter (in)	Length (ft)
201	0388/2169-0389/2169	GARVEY AV	8	133
202	0449/2169-0450/2169	N/A	8	204
203	0231/2169-0232/2169	MANGUM ST	8	350
204	0217/2215-0218/2215	N/A	8	217
205	0402/2215-0403/2215	WILLOW AV	8	171
206	0118/2215-0119/2215	STICHMAN AV	8	330
207	0495/2169-0503/2169	KENMORE AVE	8	150
208	0418/2169-0419/2169	N/A	8	138
209	0018/2215-0641/2169	N/A	8	214
210	0360/2169-0361/2169	GARVEY AVE	12	263
211	0095/2170-0096/2170	NOLINA AV	8	312
212	0169/2214-0172/2214	CAVELL PL	8	295
213	0210/2214-0211/2214	LOS ANGELES ST	8	233
214	0398/2214-0399/2214	PARK AV	8	323
215	0376/2214-0377/2214	ESTELLA ST	8	268
216	0259/2214-0694/2214	CLARK ST	8	24

Definitions and Abbreviations

This section contains definitions and abbreviations commonly used throughout this report.

Infiltration (as defined by USEPA) – The water entering a sewer system and service connections from the ground through such means as, but not limited to, defective pipes, pipe joints, service connections, service laterals, or manhole walls.

Inflow (as defined by USEPA) – The water discharged into a sewer system, including service connections from such sources as roof leaders; cellar, yard, and area drains; foundation drains; cooling water discharges; drains from springs and swampy areas; manhole covers; cross connections from storm sewers, combined sewers, or catch basins; storm waters; surface runoff; or drainage.

Excessive Infiltration and Inflow (I/I) – The extraneous clean water that enters the sanitary sewer system which can be eliminated on a cost-effective basis.

Minimum Monitored Flow – Wastewater flow during dry-weather/low groundwater periods. Includes wastewater flow from water consumption and permanent infiltration.

Base Flow – Wastewater flow exclusive of infiltration or inflow. Generally determined from water records during months when most of the water consumption is returned to the wastewater collection system.

Base Flow Peaking Factor – The ratio between peak hourly flow rate and average daily flow.

Permanent Infiltration – The difference between minimum monitored flow (dry-weather/low groundwater) and base flow as determined from water billing records. Assumed to occur 365 days per year.

Peak Infiltration – The maximum extraneous flow that enters the wastewater collection system during high groundwater conditions after the inflow effects of a rain event have ended.

Total Peak Infiltration – The sum of peak infiltration and permanent infiltration.

Relief Sewer – A new sewer required to transport projected flows during a design storm event without surcharge.

Design Storm Event – A storm event selected for purposes of analyzing its effect on the wastewater collection system.

Service and Contingency Factor – This factor includes 10 percent for engineering, 10 percent for contingency, and 5 percent for legal, fiscal, and administrative costs. The service and contingency factor is used to convert estimated construction costs to capital costs.

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gpd – Gallons per day.

cfs – Cubic feet per second.

mgd – Million gallons per day.

idm – Inch-diameter-miles. The product of sewer pipe diameter in inches and length of sewer in feet divided by 5280 ft.

gpd/idm – Gallons per day per inch-diameter-mile.

O&M Cost – Operation and Maintenance Cost.

\$/gpd – Rehabilitation cost divided by flow rate in gallons per day.

US – Upstream.

DS – Downstream.

ADWF – Average dry weather flow.

PDWF – Peak dry weather flow.

PWWF – Peak wet weather flow.

d/D – Flow depth per pipe diameter.

Object ID – Assigned ID numbers for hydraulic modeling purposes.

County Segment ID – Sewer line ID given by Los Angeles County Sewer Maintenance District for all city sewer lines, generally identified by a series of numbers. For example, a County Segment ID of 0083/2024-0084/2024 means a sewer line from manhole number 0083 on County map 2024 to manhole 0084 on County map 2024.

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Project Start-Up Activities

Existing sanitary sewer maps were used for defining sewer tributary areas (basins). Unique manhole numbers were assigned based on manhole IDs identified by the Los Angeles County Department of Public Works, and these numbers were used during the course of this project.

The sanitary sewer manhole numbering system used by AAE, Inc. includes the map number and a manhole identification number (ID), matching the County's numbering system. The combination of the map numbers and manhole ID uniquely identifies each manhole in the sewer system. For example, a sewer line in map 1972 between manhole numbers 19 and 20 would have a segment ID of 0020/1972-0019/1972.

System Review, Research, & Database Design

The Los Angeles County Department of Public Works has created a GIS database of all the manholes and sewer lines for all the cities that are under the Consolidated Sewer Maintenance District. However, this GIS database lacks the necessary attributes to create the hydraulic model. In this phase, AAE performed a comprehensive research of all available documents related to this project. We gathered all related map sheets, As-Builts, and plan and profiles for the City's sewer system. Additionally, we collected all of the City's sewer plans from Los Angeles County Department of Public Works (LADPW). Using the combination of LADPW's maps and City's as-builts, AAE proceeded to populate and build the database attributes.

GIS Database / Data Dictionary Design

The database dictionary or a schema serves two important purposes. First, it identifies all features and their associated attributes for data extraction. Second, it identifies the source documents from which, information for the features and attributes should be extracted from. For this project, most of the attributes were extracted from the City's existing as-built drawings and gaps were filled in using LADPW's maps. To develop the hydraulic model, several attributes including line segment diameter, length, material, as well as manhole invert elevations and ground elevation data were needed. The database design also includes the design for ArcGIS GeoDatabase for the GIS system. All the maps and exhibits provided in this report were created using the GIS database developed for this master plan.

Analysis of Flow Data

The analysis of wastewater flow data consists of the determination of base flow conditions, peak infiltration conditions, and inflow conditions. Analysis of wastewater flows for the SMP was based on the Los Angeles County Sanitation District (LACSD) standard methodology for estimating wastewater return rates, based on land use.

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Base Flow Conditions

Base flow is defined as wastewater flow exclusive of any infiltration or inflow. Base flow may be determined by different methods. The following methods were considered for this study:

- A) One is a review of water records from months when most of the water consumption is returned to the wastewater system, however, this data was not readily available.
- B) Loading factors and relative numbers can also be used to determine base flow. The Los Angeles County Sewer Maintenance District (LACSM D) has published a document that assign a sewer unit to each parcel per the land use code. These sewer units can be used as loading factors but will require flow monitoring data for calibration, which was not available for this master plan.
- C) The preferred method used for this study is the Los Angeles County Sanitation District's (LACSD) standard methodology for estimating wastewater return rates, based on land use. Land use codes designated by the Los Angeles County Assessor's Office for each parcel were used and peak flow values based on the flow generation factors used by LACSD were assigned to each parcel. See the LOADINGS FOR EACH CLASS OF LAND USE table in Appendix C for a complete list of LACSD wastewater return rates per land use code.

Future Growth Projections

The Southern California Association of Governments (SCAG) prepared an Integrated Growth Forecast in 2008 that projected the City of Baldwin Park's population would increase from 82,767 person in 2010 to 87,995 persons in the year 2030. This represents an increase of 5,228 person or 6.3% over twenty years. This increase would then be applied to the measured flow acquired from flow metering devices, which was not available for this master plan, to establish the base flow for the modeling to account for the future growth in population. The base flows for this master plan was established based on calculated flows from the LACSD standard methodology, which is not time-related and occupancy-related, therefore this future growth projection was not accounted for.

Sewer System Evaluation Overview

The wastewater collection system was evaluated for existing and future conditions using a hydraulic model called InfoSWMM, a computer simulation model developed by MWH, Inc. This system seamlessly integrates advanced sewer collection systems modeling and optimization functionality with ArcGIS. Land use tributary to manholes on the system are then defined and peak flows are estimated using the Thiessen Polygon methodology. Collection lines are evaluated based on their ability to convey the projected peak dry weather flow.

Model Overview

The Wastewater System Model (InfoSWMM) transforms physical system information, flow generation criteria and approaches into a mathematical model which simulates conditions in the wastewater system. Within InfoSWMM, large systems can be evaluated for a variety of flow scenarios.

InfoSWMM uses the Manning equation and a stage-flow curve to calculate line capacity and velocity. The model generates the flow rate, velocity, depth of flow, and capacity for each line. The model is also used to identify capacity deficiencies and to size improvements.

Using InfoSWMM, the discharge capacity of collection lines was established using the continuity equation, the Manning equation, and criteria as follows.

The continuity equation for flow is:

$$Q = VA$$

where:

Q = flow in cubic feet per second

V = velocity in feet per second

A = cross-sectional area of flow in square feet

Manning's equation is used to estimate the flow velocity in gravity lines:

$$V = (1.486 R^{2/3} S^{1/2})/n$$

where:

V = velocity of flow in feet per second

A = cross-sectional area of the pipe in square feet R = hydraulic radius in feet

S = pipeline slope in feet of rise per foot of length

n = Manning friction factor

Existing sewer capacity is established using a Manning friction factor for vitrified clay pipe of 0.013.

The SWMM Extran Block is a dynamic flow routing model developed by the Environmental Protection Agency (EPA). The model can be used to compute backwater profiles in closed conduit systems with unsteady flow. Through the use of the model, a representation of the actual study area hydraulics has been developed.

The total flow assigned to the hydraulic model is made up of base flows stated earlier. The total peak flows are used during the hydraulic analysis to evaluate the ability of the sewer system to transport the projected flow.

Capacity Design Criteria

The design capacity of collection lines are established in the model as previously mentioned and summarized as follows. Lines will be considered over-capacity if they cannot convey the peak dry weather flow using 75 percent of actual capacity based on the hydraulic criteria. The remaining 25 percent capacity is allocated for Infiltration and Inflow, Reserve Capacity Contingency and variations in flows. However, based on Los Angeles County standards, for pipes less than 15 inches in diameter, the design capacity of future sewer systems shall have a maximum depth to diameter ratio of 0.50.

Minimum Velocity

From an operational perspective, a minimum peak flow velocity of 3 feet per second is desirable to scour the line and prevent significant solids deposition. Lines in the system that do not develop adequate cleansing velocity (flat lines, low spots, or lines with low flows) need to be given priority status in the City's line cleaning program. Every attempt was made to utilize data from as-builts for the modeling. However, in the absence of data, extrapolation was utilized to calculate missing inverts and slopes. Every attempt was also made to meet the minimum velocity requirement of 3 feet per second with the hydraulic modeling, but since the invert elevations of all pipes are fixed, the velocities cannot be changed and therefore are not a controlling factor in the modeling.

Hydraulic Analysis

Future Conditions

The design criteria takes into account future population increase. However, changes in the land use zoning due to potential new developments are not considered. Hydraulic simulation was performed on the rehabilitated sewer system and lines will be considered over-capacity if they cannot convey the increased peak dry weather flow using 50 percent of actual capacity based on the hydraulic criteria for pipes 12 inches and below, and 75 percent of actual capacity for pipes greater than 12 inches. It is recommended that all future major development projects, with or without zoning changes, be considered for sewer capacity analysis.

Analysis of CCTV Data

A total of approximately 289,540 linear feet of sewer lines, equivalent to 50% of the sewer system pipelines, were televised by LA County. The County has plans to televise all sewer lines within the City of Baldwin Park in the future, but by completion of this report, the only available data was for 289,540 linear feet of sewer lines.

AAE has reviewed and analyzed all the CCTV data and we have generated a table showing the most serious problems within the system, per this analysis. Using the National Association of Sewer System Companies (NASSCO) Rating system, all pipes with ratings in the 4 and 5 range were considered structurally deficient. NASSCO is a nationally recognized video/rating system used by most agencies to evaluate the conditions of their sewer lines. A rating system of 1 to 5 is used, 1 being in good condition and 5 being in poor condition in need of replacement. For this analysis, a Quick Structural Rating (QSR) system was used to evaluate the sewer lines. The QSR is a four character score as follows:

1. The first character is the highest severity grade occurring along the pipe length.
2. The second character is the total number of occurrences of the highest severity grade. If the total number exceeds 9, then alphabetic characters are used as follows – 10 to 14 – A; 15 to 19 – B; 20 to 24 – C; etc.
3. The third character is the next highest severity grade occurring along the pipe length.
4. The fourth character is the total number of the second highest severity grade occurrences, derived as in item 2 above.

Table 3 shows this summary. Exhibit 2 is a graphical summary of the identified defects. A large-scale drawing of Exhibit 2 is included in Appendix D. Also, a more detailed explanation of the NASSCO rating system is available in Appendix C.

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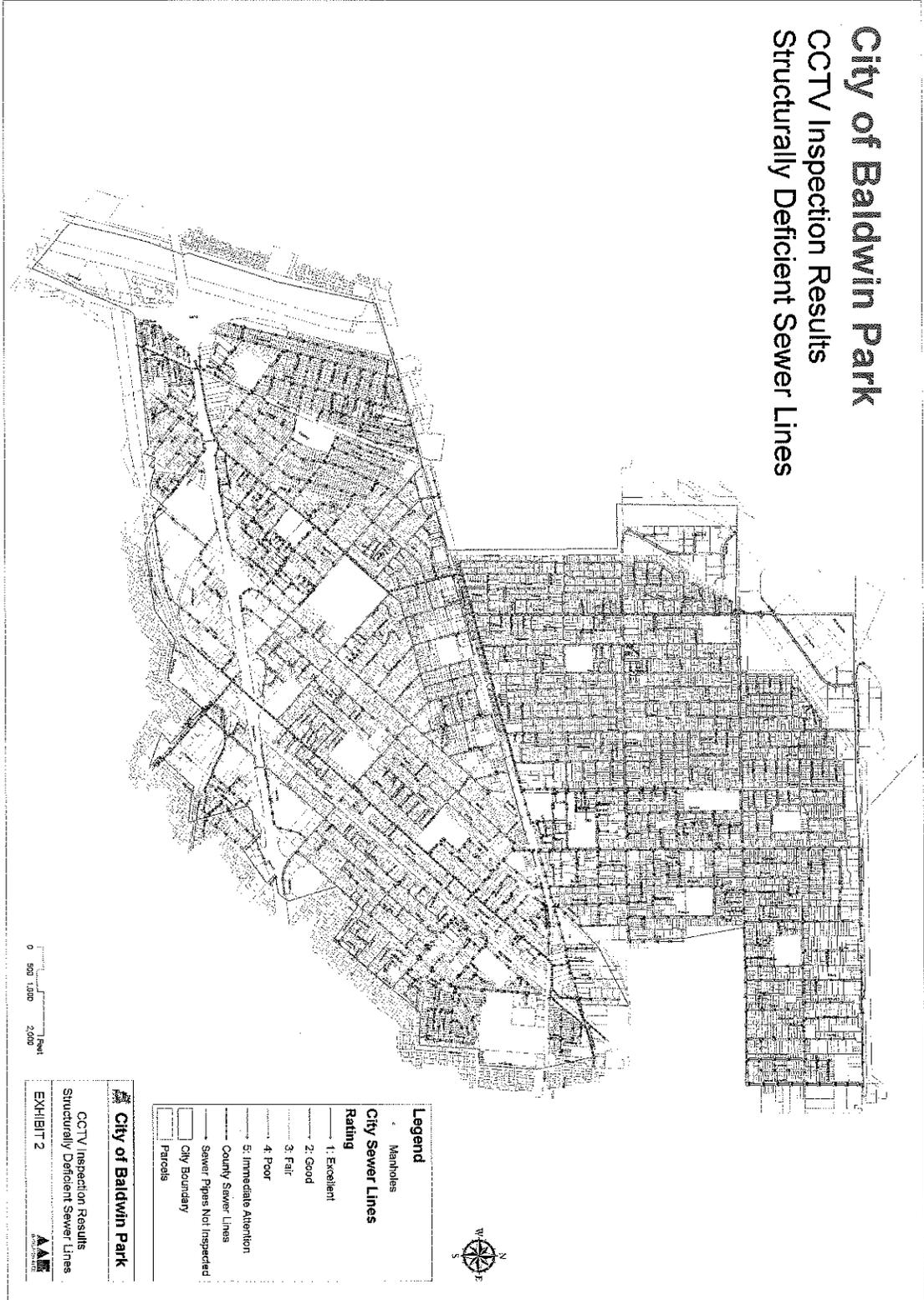
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**Table 3
Structurally Deficient Lines**

Item No	QSR	Start Manhole	End Manhole	Street	Pipe Material	Pipe Diameter (in)	Pipe Length (ft)
1	5212	0407-2169	0406-2619	MAINE AVE	VCP	8	307
2	5141	0349-2168	0134-2168	LITTLEJOHN ST	VCP	12	91
3	5122	0358-2168	0356-2168	SPRING ST	VCP	8	196
4	5121	0097-2214	0096-2214	OLIVE ST	VCP	8	340
5	5121	0070-2168	0069-2168	FOUNTAIN VILLAS OFF CENTER ST	VCP	8	126
6	5111	0249-2168	0250-2168	MERCED AV	VCP	8	106
7	5111	CO3-2138	0043-2168	KENMORE ST	VCP	8	348
8	5100	0468-2215	0035-2215	STEWART AV	VCP	8	142
9	4132	0306-2168	0307-2168	ANADA ST	VCP	8	215
10	4112	0206-2169	0209-2169	LOMA LN	VCP	8	197
11	4100	0129-2168	0130-2168	FILHURST AV	VCP	8	298
12	4100	0244-2168	0245-2168	MERCED AV	VCP	8	188
13	4100	0020-2214	0021-2214	BENHAM AV	VCP	8	152
14	4100	0637-2169	0636-2169	MERCED AVE	VCP	8	212
TOTAL							2,918

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CCTV Inspection Results
Structurally Deficient Sewer Lines



Collection System Hydraulic Deficiencies & Recommended Improvements

Analysis of Alternatives

Based on the output from the collection system model for existing and future loading conditions, hydraulic deficiencies are identified within the existing system. As stated earlier, lines will be considered hydraulically deficient if they cannot convey the peak dry weather flow using 75 percent of actual capacity based on the hydraulic criteria.

For the City of Baldwin Park, the hydraulic modeling of the existing sewer system shows that there are no lines that have flows above 75 percent of their actual capacity. However, based on Los Angeles County standards, for pipes less than 15 inches in diameter, the design capacity of a new sewer system shall have a maximum depth to diameter ratio of 0.50. The results of the hydraulic modeling showed several pipes that are less than 15 inches in diameter with a depth to diameter ratio of greater than 0.50 and Table 4 identifies these lines. These lines are not considered hydraulically deficient but could potentially be hydraulically deficient and should be considered for upsizing.

It is important to note that the base flows used for the hydraulic modeling are based on theoretical and calculated values acquired from the current land use zoning for the City of Baldwin Park. It is highly recommended that flow meters be installed in major portions of the City sewer system and measured values be used to compare and verify the calculated values. The use of flow monitoring data will help to identify a more accurate list of hydraulically deficient lines and will help the City avoid any future problems.

Prior to initiating final design, the City's operations staff should observe the PDWF in these lines to verify the depths they operate under. This will require that flow depth measurements and hydraulic calculations be performed.

System Improvements

Table 4 identifies lines that are less than 15 inches in diameter and that have a depth to diameter ratio greater than 0.50 as identified through modeling, along with the replacement pipe diameter required to remediate the hydraulic deficiency using the existing slope.



**Table 4
Potential Hydraulically Deficient Segment Lines**

Object ID	County Segment ID	Street	Pipe Length	Existing Diameter (in)	Proposed Diameter (in)
135	0058/2169-0063/2169	BARNES AVE	281	8	10
171	0278/2215-0279/2215	BIG DALTON AV	300	8	10
317	0066/2169-0644/2169	BESS AVE	248	8	10
322	0114/2215-0279/2215	BIG DALTON AV	305	8	10
378	0460/2214-0461/2214	EAST RAMONA BV	228	8	10
443	0064/2169-0065/2169	BARNES AVE	230	8	10
464	0253/2214-0271/2214	BALDWIN PARK BV	20	8	10
528	0277/2215-0278/2215	BIG DALTON AV	300	8	10
799	0053/2169-0054/2169	BARNES AVE	202	8	10
860	0455/2214-0460/2214	EAST RAMONA BV	206	8	10
909	0065/2169-0066/2169	BARNES AVE	199	8	10
1091	0247/2214-0253/2214	BALDWIN PARK BV	60	8	10
1191	0485/2214-0554/2214	EAST RAMONA BV	289	8	10
1344	0554/2214-0558/2214	EAST RAMONA BV	106	8	10
1380	0461/2214-0483/2214	EAST RAMONA BV	73	8	10
1449	0081/2169-0644/2169	BESS AVE	271	8	10
1464	0454/2214-0455/2214	EAST RAMONA BV	272	8	10
1465	0483/2214-0484/2214	EAST RAMONA BV	321	8	10
1585	0252/2214-0271/2214	BALDWIN PARK BV	261	8	10
1624	0055/2169-0058/2169	BARNES AVE	280	8	10
1675	0484/2214-0485/2214	EAST RAMONA BV	328	8	10
1687	0449/2214-0453/2214	EAST RAMONA BV	302	8	10
1876	0063/2169-0064/2169	BARNES AVE	231	8	10
1954	0453/2214-0454/2214	EAST RAMONA BV	273	8	10
2068	0562/2214-0563/2214	EAST RAMONA BV	99	8	10
2159	0559/2214-0562/2214	EAST RAMONA BV	97	8	10
2266	0277/2215-0456/2215	BIG DALTON AV	81	8	10
2356	0558/2214-0559/2214	EAST RAMONA BV	176	8	10
2401	0114/2215-0115/2215	BIG DALTON AV	119	8	10
2402	0114/2215-0115/2215	BIG DALTON AV	169	8	10
27	0079/2215-0090/2215	AHERN DR	266	10	12
400	0387/2215-0390/2215	PUENTE AV	26	10	12
805	0058/2168-0062/2168	LOS ANGELES ST	20	10	12
856	0390/2215-0393/2215	PUENTE AV	368	10	12



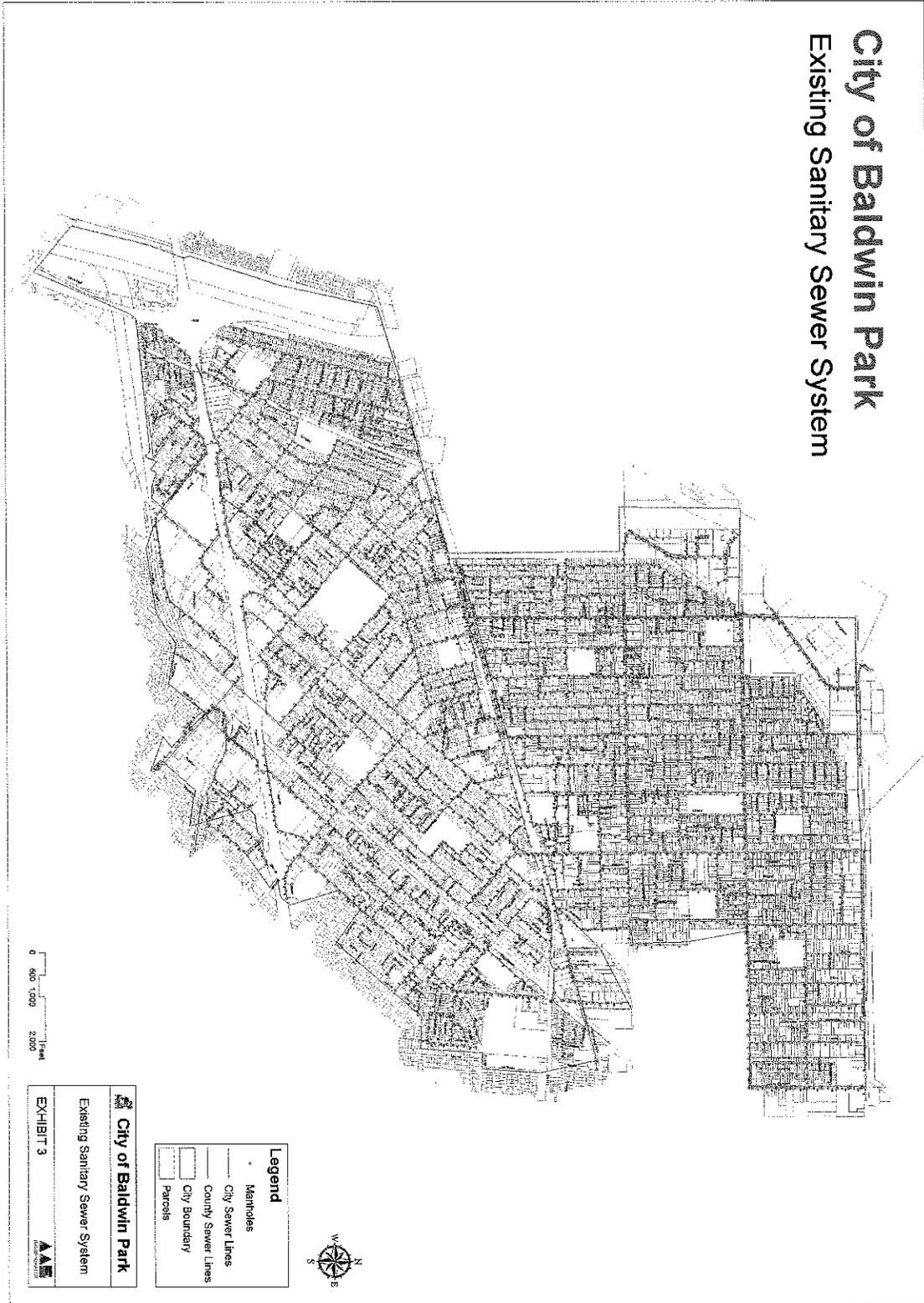
**Table 4
Potential Hydraulically Deficient Segment Lines**

Object ID	County Segment ID	Street	Pipe Length	Existing Diameter (in)	Proposed Diameter (in)
1037	0471/2169-TRNK/2169	FRAZIER ST	48	10	12
1295	0386/2215-0387/2215	PUENTE AV	350	10	12
1422	0302/2215-0393/2215	PUENTE AV	141	10	12
1450	0089/2215-0090/2215	AHERN DR	266	10	12
1735	0086/2215-0089/2215	AHERN DR	267	10	12
2520	0385/2215-0386/2215	PUENTE AV	276	10	12
2521	0385/2215-0386/2215	PUENTE AV	70	10	12
102	0304/2215-0305/2215	PUENTE AV	340	10	15
1814	0303/2215-0304/2215	PUENTE AV	360	10	15
2199	0302/2215-0303/2215	PUENTE AV	373	10	15
106	0272/2169-0273/2169	ALLEY	221	12	15
141	0315/2215-0327/2215	PUENTE AV	363	12	15
248	0275/2169-TRUNK/2169	ALLEY	120	12	15
280	0274/2169-0275/2169	ALLEY	300	12	15
596	0327/2215-0328/2215	PUENTE AV	363	12	15
620	0313/2215-0314/2215	PUENTE AV	363	12	15
702	0308/2215-0309/2215	PUENTE AV	23	12	15
855	0115/2215-0293/2215	MERCED AV	337	12	15
1074	0306/2215-0308/2215	PUENTE AV	78	12	15
1234	0324/2215-0328/2215	MERCED AV	353	12	15
1453	0273/2169-0274/2169	ALLEY	260	12	15
1459	0305/2215-0306/2215	PUENTE AV	224	12	15
1801	0293/2215-0324/2215	MERCED AV	269	12	15
1831	0189/2168-0190/2168	CENTER ST	44	12	15
2016	0311/2215-0313/2215	PUENTE AV	159	12	15
2026	0309/2215-0311/2215	PUENTE AV	181	12	15
2122	0314/2215-0315/2215	PUENTE AV	363	12	15
2222	0272/2169-0276/2169	GARVEY AVE	178	12	15
		TOTAL	13,691		

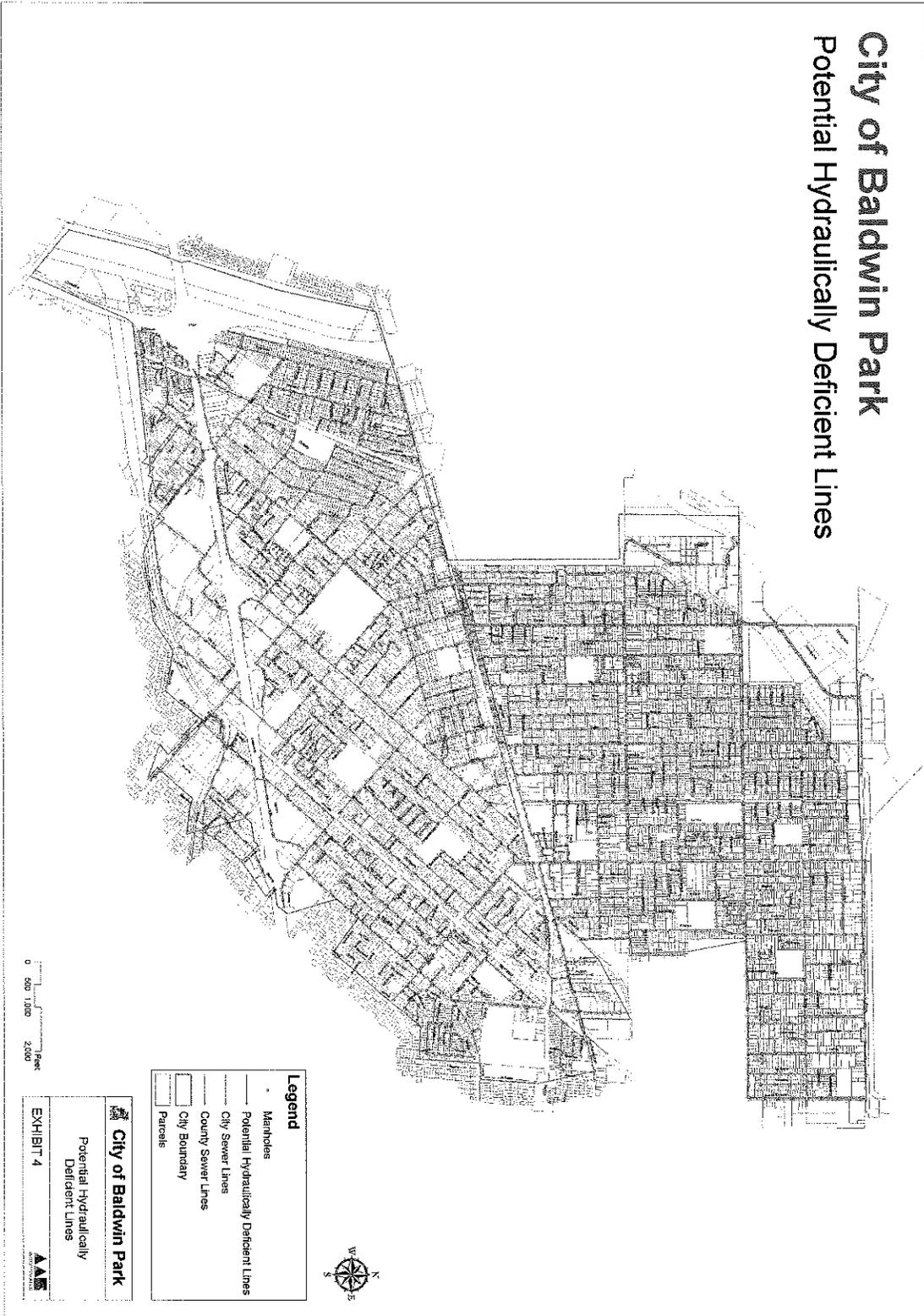
Exhibit 3 shows the existing sewer system for the City of Baldwin Park. Exhibit 4 shows the sewer lines identified in Table 4 along with the proposed replacement pipe diameters. A large scale of all three of these exhibits can be found in Appendix D.

City of Baldwin Park

Sanitary Sewer Master Plan



City of Baldwin Park
Potential Hydraulically Deficient Lines



Capital Improvement Program

The intension of Capital Improvement Program is to do all the needed Capital Improvement Projects to assure appropriate operation of existing system. To do so, the City may need to upgrade all potential hydraulically deficient sewer lines in addition to replacement or rehabilitation of structurally damaged sewer lines.

Structurally Damaged Sewer Lines

Per Table 3 of this Report, there are 14 segments of sewer lines that are structurally damaged. Table 5 is a also list of said deficient lines to be rehabilitated, along with the associated costs. To keep the existing system operating appropriately, AAE is making a minimum of recommendations needed, including partial sewer line replacement and trenchless lining. The related construction cost for said improvement is given for each item with a grand total including construction and soft cost.

Los Angeles County has provided the CCTV Inspection for only about 1/2 of the City sewer system. The other 1/2 remains to be inspected in the future. However, AAE, in its cost analysis, has considered that the remaining of the sewer system has the same percentage of damaged lines; therefore, associated cost of improvements has been added to the cost. However, as part of the the contract the City has with the Los Angeles County Sewer Maintenance District, the County may perform all necessary repairs, replacements and upgrades for all structurally deficient lines.

Potential Hydraulically Deficient Sewer Lines

Table 6 is a list of potential hydraulically deficient lines that may need to be upgraded (to be replaced with a bigger diameter pipe). This table shows that there are 13,691 linear feet of sewer lines that are hydraulically deficient. These lines are not considered hydraulically deficient and may not need to be rehabilitated (can be verified by installation of flow metering devices), but this table also shows the cost of construction for each segment and with a grand total for construction and soft cost if the City decides to upsize these pipes to avoid any problems in the future.

Prioritized Capital Improvement Program

The combination of the presented sewer line upgrades and rehabilitation has been presented in Table 7 where it has been assumed that the City be able to budget and spend about \$989,000 per year for the next five years. Per this scenario, in the first year, all the structurally damaged lines shall be rehabilitated, while the new list of needed improvements per continuation of CCTV Inspection has to be complete, for the 3rd year, the rest of the structurally damaged pipes need to be replaced. The potential hydraulically deficient lines shall be upgraded from 1st year to 5th year.

CITY OF BALDWIN PARK

Damaged Sewer Segment per CCTV Inspection

Table 5

Item No	QSR	Start Manhole	End Manhole	Street	Pipe Material	Pipe Diameter	Pipe Length	Observation: Location	Recommendation	Replacement Length (ft)	Lining Length (ft)	Estimated Cost (\$)
1	5212	2169-0407	2169-0406	MAINE AVE	VCP	8	307.00	Multiple Holes at Joint, 141.8'; and Joint Offset	Partial Replacement	30		\$ 15,000
2	5141	2169-0349	2169-0134	LITTLE-JOHN ST	VCP	12	91.05	Broken Pipe - Void Visible: 90.9'; and Deformed	Partial Replacement	15		\$ 7,500
3	5122	2169-0368	2169-0356	SPRING ST	VCP	8	196.00	Multiple Fractures: 1.8', 773.9', and Hole with Soil	Partial Replacement	15		\$ 7,500
4	5121	2214-0087	2214-0096	OLIVE ST	VCP	8	339.50	Multiple Fractures: 0.5', 100.7', 115.4'; and Hole	Partial Replacement	15		\$ 7,500
5	5121	2169-0070	2169-0069	FOUNTAIN VILLAS OFF C	VCP	8	126.06	Multiple Fractures: 0.7', 126.6'; and Joint Offset	Partial Replacement	15		\$ 7,500
6	5111	2169-0249	2169-0250	MERCED AV	VCP	8	106.00	Fracture: 88.4'; and Broken Pipe: 59.5'	Partial Replacement	15		\$ 7,500
7	5111	2169-0249	2169-0250	MERCED AV	VCP	8	348.00	Hole - Soil Visible: 207.4'	Partial Replacement	15		\$ 7,500
8	5100	2215-0468	2215-0035	KENMORE ST	VCP	8	142.19	Broken Pipe - Soil Visible: 1.5'	Partial Replacement	15		\$ 7,500
9	4132	2169-0306	2169-0307	STEWART AV	VCP	8	214.91	Multiple Fractures: 35.8', 68.1', 71.7', 182.5'; and	Partial Replacement	15		\$ 7,500
10	4100	2169-0129	2169-0203	ANADA ST	VCP	8	298.00	Multiple Fractures: 0.5', 1.0', 142.0'	Partial Replacement	15		\$ 7,500
11	4100	2169-0244	2169-0129	LOMA LN	VCP	8	187.67	Multiple Fractures: 253.4'	Partial Replacement	15		\$ 7,500
12	4100	2214-0020	2169-0245	FILHURST AV	VCP	8	152.61	Multiple Fractures: 56.7', 59.9'	Partial Replacement	15		\$ 7,500
13	4100	2214-0020	2214-0021	MERCED AV	VCP	8	152.61	Multiple Fractures: 85.4'	Partial Replacement	15		\$ 7,500
14	4100	2169-0637	2169-0636	BENHAM AV	VCP	8	211.90	Multiple Fractures: 203.5'	Partial Replacement	15		\$ 7,500

Replacement Cost per Foot	\$ 600
Lining Cost per Foot	\$ 120

SUB-TOTAL	\$ 112,500
CONTINGENCY	\$ 22,500
TOTAL for CONSTRUCTION	\$ 135,000
ENGINEERING (DESIGN/MINOR CONSTRUCTION INSPECTION)	\$ 27,000
GRAND TOTAL	\$ 162,000
ADD 50% for Portion of City Not CCTV Inspected	\$ 81,000
GRAND TOTAL (Based on 2019 Construction Cost)	\$ 324,000

CITY OF BALDWIN PARK
Hydraulically Deficient Sewer Segment to be Upgraded

Table 6

Object ID	LA County Segment ID	Street	Length (ft)	Existing Diameter (in)	Proposed Diameter (in)	Unit Cost (\$)	Estimated Replacement Cost (\$)
135	0058/2169-0063/2169	BARNES AVE	281	8	10	\$ 200	\$ 56,200
171	0278/2215-0279/2215	BIG DALTON AV	300	8	10	\$ 200	\$ 59,000
317	0068/2169-0844/2169	BESS AVE	248	8	10	\$ 200	\$ 49,600
322	0114/2215-0279/2215	BIG DALTON AV	305	8	10	\$ 200	\$ 60,900
378	0480/2214-0461/2214	EAST RAMONA BV	228	8	10	\$ 200	\$ 45,600
443	0064/2169-0065/2169	BARNES AVE	230	8	10	\$ 200	\$ 46,000
464	0253/2214-0271/2214	BALDWIN PARK BV	20	8	10	\$ 200	\$ 3,962
528	0277/2215-0278/2215	BIG DALTON AV	300	8	10	\$ 200	\$ 60,000
799	0053/2169-0054/2169	BARNES AVE	202	8	10	\$ 200	\$ 40,400
860	0455/2214-0460/2214	EAST RAMONA BV	206	8	10	\$ 200	\$ 41,200
909	0065/2169-0066/2169	BARNES AVE	199	8	10	\$ 200	\$ 39,800
1091	0247/2214-0253/2214	BALDWIN PARK BV	60	8	10	\$ 200	\$ 12,000
1191	0485/2214-0554/2214	EAST RAMONA BV	289	8	10	\$ 200	\$ 57,720
1344	0554/2214-0558/2214	EAST RAMONA BV	106	8	10	\$ 200	\$ 21,200
1380	0461/2214-0483/2214	EAST RAMONA BV	73	8	10	\$ 200	\$ 14,600
1449	0081/2169-0844/2169	BESS AVE	271	8	10	\$ 200	\$ 54,200
1464	0454/2214-0455/2214	EAST RAMONA BV	272	8	10	\$ 200	\$ 54,300
1465	0483/2214-0484/2214	EAST RAMONA BV	321	8	10	\$ 200	\$ 64,100
1585	0252/2214-0271/2214	BALDWIN PARK BV	281	8	10	\$ 200	\$ 52,286
1624	0055/2169-0058/2169	BARNES AVE	280	8	10	\$ 200	\$ 56,000
1675	0484/2214-0485/2214	EAST RAMONA BV	328	8	10	\$ 200	\$ 65,580
1687	0449/2214-0453/2214	EAST RAMONA BV	302	8	10	\$ 200	\$ 60,320
1876	0063/2169-0064/2169	BARNES AVE	231	8	10	\$ 200	\$ 46,200
1954	0453/2214-0454/2214	EAST RAMONA BV	273	8	10	\$ 200	\$ 54,580
2068	0562/2214-0563/2214	EAST RAMONA BV	99	8	10	\$ 200	\$ 19,820
2159	0559/2214-0562/2214	EAST RAMONA BV	97	8	10	\$ 200	\$ 19,338
2266	0271/2215-0456/2215	BIG DALTON AV	81	8	10	\$ 200	\$ 16,200
2356	0558/2214-0559/2214	EAST RAMONA BV	176	8	10	\$ 200	\$ 35,162
2401	0114/2215-0115/2215	BIG DALTON AV	119	8	10	\$ 200	\$ 23,700
2402	0114/2215-0115/2215	BIG DALTON AV	169	8	10	\$ 200	\$ 33,700
27	0079/2215-0090/2215	AHERN DR	266	10	12	\$ 225	\$ 59,850
400	0397/2215-0390/2215	PUENTE AV	26	10	12	\$ 225	\$ 5,850
805	0058/2168-0062/2168	LOS ANGELES ST	20	10	12	\$ 225	\$ 4,545
856	0390/2215-0393/2215	PUENTE AV	368	10	12	\$ 225	\$ 82,688
1037	0471/2169-TRNK/2169	FRAZIER ST	48	10	12	\$ 225	\$ 10,897
1295	0388/2215-0387/2215	PUENTE AV	350	10	12	\$ 225	\$ 78,754
1422	0302/2215-0393/2215	PUENTE AV	141	10	12	\$ 225	\$ 31,725
1450	0089/2215-0090/2215	AHERN DR	266	10	12	\$ 225	\$ 59,850
1735	0088/2215-0089/2215	AHERN DR	267	10	12	\$ 225	\$ 59,963
2520	0385/2215-0386/2215	PUENTE AV	276	10	12	\$ 225	\$ 62,048
2521	0385/2215-0388/2215	PUENTE AV	70	10	12	\$ 225	\$ 15,802
102	0304/2215-0305/2215	PUENTE AV	340	10	15	\$ 270	\$ 91,800
1814	0303/2215-0304/2215	PUENTE AV	360	10	15	\$ 270	\$ 97,200
2199	0302/2215-0303/2215	PUENTE AV	373	10	15	\$ 270	\$ 100,710
106	0272/2169-0273/2169	ALLEY	221	12	15	\$ 270	\$ 59,670
141	0315/2215-0327/2215	PUENTE AV	363	12	15	\$ 270	\$ 98,010
248	0275/2169-TRUNK/2169	ALLEY	120	12	15	\$ 270	\$ 32,400
280	0274/2169-0275/2169	ALLEY	300	12	15	\$ 270	\$ 81,000
596	0327/2215-0328/2215	PUENTE AV	363	12	15	\$ 270	\$ 98,010
620	0313/2215-0314/2215	PUENTE AV	363	12	15	\$ 270	\$ 98,010
702	0308/2215-0309/2215	PUENTE AV	23	12	15	\$ 270	\$ 6,075
855	0115/2215-0293/2215	MERCED AV	337	12	15	\$ 270	\$ 90,855
1074	0306/2215-0308/2215	PUENTE AV	78	12	15	\$ 270	\$ 21,060
1234	0324/2215-0328/2215	MERCED AV	353	12	15	\$ 270	\$ 95,175
1453	0273/2169-0274/2169	ALLEY	260	12	15	\$ 270	\$ 70,200
1459	0305/2215-0306/2215	PUENTE AV	224	12	15	\$ 270	\$ 60,460
1801	0293/2215-0324/2215	MERCED AV	269	12	15	\$ 270	\$ 72,630
1831	0189/2168-0190/2168	CENTER ST	44	12	15	\$ 270	\$ 11,815
2015	0311/2215-0313/2215	PUENTE AV	159	12	15	\$ 270	\$ 43,054
2026	0309/2215-0311/2215	PUENTE AV	181	12	15	\$ 270	\$ 48,992
2122	0314/2215-0315/2215	PUENTE AV	363	12	15	\$ 270	\$ 98,010
2222	0272/2169-0276/2169	GARVEY AVE	178	12	15	\$ 270	\$ 47,938

TOTAL FOOTAGE FOR REHABILITATION 13,691

SUB-TOTAL	\$ 3,159,543
CONTINGENCY	\$ 315,954
TOTAL FOR CONSTRUCTION	\$ 3,475,497
ENGINEERING (DESIGN/PM/CM CONSTRUCTION INSPECTION)	\$ 695,099
GRAND TOTAL (Based on 2010 Construction Cost)	\$ 4,170,597

City of Baldwin Park

Recommended 5-Year Capital Improvement for City Owned Sewer System

Table 7

Year	Replacement of Structurally Damaged Sewer Line	Replacement of Potentially Hydraulically Deficient Sewer Line	Total per 2010 Cost	Total
First Year: 2010-2011	\$162,000	\$827,000	\$989,000	\$989,000
Second Year: 2011-2012	\$0	\$941,905	\$941,905	\$989,000
Third: Year 2012-2013	\$162,000	\$735,052	\$897,052	\$989,000
Fourth Year: 2013-2014	\$0	\$854,335	\$854,335	\$989,000
Fifth Year: 2014-2015	\$0	\$812,304	\$812,304	\$987,361
Total	\$324,000	\$4,170,597	\$4,494,597	\$4,943,361



Inventory of City Sewer Lines And Manholes

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
0	0061/2168-0062/2168	LOS ANGELES ST	8	111
1	0061/2168-0062/2168	LOS ANGELES ST	8	18
2	0061/2168-0062/2168	LOS ANGELES ST	8	162
3	0062/2168-0228/2168	WALNUT ST	10	68
4	0062/2168-0228/2168	WALNUT ST	10	164
5	0062/2168-0228/2168	WALNUT ST	10	99
6	N/A	N/A	8	225
7	N/A	N/A	8	46
8	N/A	N/A	8	121
9	N/A	N/A	8	147
10	N/A	N/A	8	147
11	N/A	N/A	8	52
12	N/A	N/A	8	138
13	N/A	N/A	8	31
14	N/A	N/A	8	140
15	0072/2169-0073/2169	TORCH ST	15	33
16	N/A	N/A	8	239
17	0043/2168-0322/2168	ELWYN DR	8	342
18	0160/2168-0161/2168	HARLAN AV	8	293
19	0202/2168-0203/2168	OLIVE ST	10	307
20	0204/2168-0238/2168	MERCED AV	8	208
21	0384/2168-0385/2168	N/A	15	270
22	0620/2169-0621/2169	N/A	8	92
23	0172/2169-0178/2169	ATHOL ST	8	346
24	0333/2169-0334/2169	N/A	8	153
25	0139/2169-0140/2169	WACO ST	8	113
26	0577/2169-0578/2169	BELGREEN ST	8	197
27	0079/2215-0090/2215	AHERN DR	10	266
28	0212/2215-0213/2215	N/A	8	184
29	0235/2215-0236/2215	STICHMAN AV	8	277
30	0245/2215-0248/2215	PACIFIC AV	8	125
31	0078/2215-0079/2215	MERCED AV	12	277
32	0429/2169-0430/2169	FEATHER AVE	8	121
33	0383/2169-0384/2169	GARVEY AV	8	314
34	0382/2169-TRUNK/2169	WHITESSELL ST	10	245
35	0412/2170-0378/2169	VIRGINIA AV	8	269
36	0376/2169-0377/2169	MAINE AV	8	85
37	0258/2168-0260/2168	DUNIA ST	8	330
38	0208/2214-0209/2214	LOS ANGELES ST	8	256
39	0234/2214-0235/2214	BALLENTINE PL	8	260
40	0371/2214-0372/2214	MAINE AV	12	272
41	0416/2214-0417/2214	LOS ANGELES ST	8	276
42	0250/2214-0251/2214	BALDWIN PARK BV	8	343
43	0108/2214-0109/2214	OLIVE ST	12	342
44	0009/2215-0010/2215	RAMONA BV	8	286
45	0116/2214-0117/2214	STEWART AV	10	317
46	0286/2214-0287/2214	MAINE AV	10	169
47	0438/2214-0440/2214	MAINE AV	15	152
48	0686/2214-0687/2214	N/A	8	140
49	0019/2168-0020/2168	ELWYN DR	8	115
50	0223/2214-0224/2214	ELWYN DR	8	280
52	0130/2168-0131/2168	FILHURST AV	8	301
53	0224/2169-0225/2169	FRAZIER ST	8	34
54	0084/2168-0085/2168	CENTER ST	8	208
55	0085/2168-0091/2168	CENTER ST	8	282
56	0355/2168-0408/2168	LITTLE JOHN ST	12	93

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
57	0191/2168-0192/2168	N/A	12	111
58	0230/2168-0231/2168	WALNUT ST	10	325
59	0693/2169-TRNK/2169	RAMONA PKWY	15	48
60	0168/2169-0169/2169	ATHOL ST	8	144
61	0190/2169-0211/2169	FRANCISQUITO AV	8	248
62	0326/2169-0327/2169	N/A	8	146
63	0185/2169-0186/2169	CORAK ST	8	240
64	0568/2169-0569/2169	CENTER ST	12	338
65	0108/2215-0267/2215	STICHMAN AV	8	200
66	0348/2215-0349/2215	MILLBURY AV	8	260
67	0495/2169-0496/2169	FRAZIER ST	10	328
68	0470/2215-0471/2215	N/A	8	242
69	0080/2169-0081/2169	N/A	15	289
70	0074/2169-0075/2169	MARLINDA AV	8	315
71	0118/2170-0120/2170	LEORITA ST	8	346
72	0282/2169-0285/2169	ROBINETTE AV	8	365
73	0270/2168-0271/2168	BRESEE AV	8	322
74	0582/2214-TRNK/2214	N/A	8	16
75	0310/2168-0311/2168	BRESEE AV	8	305
76	0574/2214-0575/2214	ELTON AV	8	350
77	0330/2214-0333/2214	BLEECKER AV	8	288
78	0019/2214-C.O./2214	N/A	8	100
79	0291/2214-0292/2214	JOANBRIDGE ST	8	252
80	0502/2214-0503/2214	GRAYHURST AV	8	299
81	0595/2214-0598/2214	DEVANAH ST	8	218
82	0010/2213-0286/2214	MAINE AV	10	268
83	0031/2214-0032/2214	CRAGMONT ST	8	270
84	0203/2215-0204/2215	PACIFIC AV	8	380
85	0101/2168-0111/2168	HARLAN AV	18	318
86	0211/2168-0279/2168	MERCED AV	8	178
87	0246/2168-0247/2168	MERCED AV	8	83
88	0037/2168-0343/2168	MERCED AV	10	163
89	0176/2169-0177/2169	COSBEY ST	8	286
90	0179/2169-0180/2169	ATHOL ST	8	275
91	0190/2169-0191/2169	LOMA LN	8	310
92	0180/2169-0181/2169	FRANCISQUITO AV	8	257
93	0211/2169-0212/2169	FRAZIER ST	8	16
94	0336/2169-0337/2169	N/A	8	137
95	0087/2169-0088/2169	WESTCOTT AVE	8	335
96	0095/2169-0099/2169	WESTCOTT AV	8	105
97	0119/2169-0120/2169	RAMONA BLVD	8	355
98	0115/2215-0116/2215	BIG DALTON AV	15	352
99	0208/2215-0209/2215	PACIFIC AV	15	334
102	0304/2215-0305/2215	PUENTE AV	10	340
103	0029/2215-0035/2215	STEWART AV	8	333
104	0132/2215-0133/2215	N/A	8	350
105	0122/2215-0128/2215	N/A	8	156
106	0272/2169-0273/2169	ALLEY	12	221
107	0262/2169-0263/2169	BESS AVE	8	237
108	0111/2170-0112/2170	AMAR RD	8	350
109	0013/2169-0014/2169	PATRITTI AV	8	221
110	0648/2169-0649/2169	N/A	8	168
111	0170/2214-0171/2214	LANDIS AV	8	280
112	0300/2168-0301/2168	CHILCOT ST	8	219
113	0196/2214-0197/2214	LOS ANGELES ST	8	330
114	0354/2214-0356/2214	N/A	8	209

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
115	0594/2214-0595/2214	LA SENA AV	8	254
116	0319/2214-0320/2214	MARION AV	8	185
117	0547/2214-0548/2214	OLIVE ST	12	334
118	0043/2214-0044/2214	CHILCOT ST	8	265
119	0113/2214-0114/2214	STEWART AV	8	254
120	0018/2213-0019/2213	ARROW HWY	8	332
121	0290/2214-0291/2214	JOANBRIDGE ST	8	168
122	0294/2214-0295/2214	CALIFORNIA AV	8	313
123	0517/2214-0518/2214	LANTE ST	8	380
124	0572/2214-0573/2214	EAST RAMONA BV	8	330
125	0045/2215-0046/2215	STERLING DR	8	271
126	0240/2214-0430/2214	LA RICA AV	8	41
127	0519/2169-0653/2169	GRACE AV	8	139
128	0129/2168-0130/2168	FILHURST AV	8	302
129	0190/2168-0214/2168	OLIVE ST	12	333
130	0350/2168-0351/2168	LITTLE JOHN ST	12	355
131	0471/2169-0489/2169	FRAZIER ST	10	322
132	0490/2169-0491/2169	GRACE AV	8	170
133	0149/2169-0183/2169	N/A	8	210
134	0140/2169-0246/2169	ATHOL ST	12	262
135	0058/2169-0063/2169	BARNES AVE	8	281
136	0040/2169-0041/2169	BARNES AVE	8	112
137	0141/2215-0142/2215	BIG DALTON AV	15	46
138	0110/2215-0279/2215	BRESEE PL	8	275
139	0410/2215-0411/2215	MAYLAND AV	8	193
140	0399/2215-0400/2215	ARDILLA AV	8	110
141	0315/2215-0327/2215	PUENTE AV	12	363
142	0635/2169-0657/2169	MERCED AV	8	210
143	0269/2169-0270/2169	GARVEY AVE	8	282
144	0070/2169-0071/2169	N/A	8	350
145	0098/2170-0099/2170	FRAZIER ST	8	178
146	0016/2169-0017/2169	SYRACUSE AV	8	295
147	0252/2168-0253/2168	JERRY AV	8	244
148	0198/2214-0199/2214	LOS ANGELES ST	8	283
149	0399/2214-0400/2214	PARK AV	8	317
150	0677/2214-0678/2214	LARRY AV	8	258
151	0330/2214-0332/2214	NUBIA ST	10	326
152	0144/2214-0145/2214	ROCKENBACH ST	8	151
153	0049/2214-0050/2214	ANADA ST	8	230
154	0141/2214-0142/2214	OHIO ST	8	291
155	0240/2215-0241/2215	DUNDRY AV	8	160
156	0220/2214-0221/2214	STEWART AV	12	263
157	0001/2169-0002/2169	PATRITTI AVE	8	272
158	0093/2168-0094/2168	MORGAN ST	8	75
159	0109/2168-0131/2168	FILHURST AV	8	315
160	0217/2168-0232/2168	BENWOOD ST	8	318
161	0309/2169-0310/2169	TRACY ST	8	49
162	0666/2169-0667/2169	RAMONA BLVD	8	24
163	0664/2169-0665/2169	PE RR R/W	8	240
164	0544/2169-TRUNK/2169	RAMONA PKWY	8	50
165	0392/2169-0393/2169	DOUBLE GROVE ST	8	176
166	0455/2169-0456/2169	MAINE AVE	8	319
167	0695/2169-0696/2169	CENTER ST	15	355
168	0569/2169-0575/2169	CENTER ST	8	255
169	0113/2215-0137/2215	JEANETTE LN	8	307
170	0247/2215-0381/2215	JEREMIE ST	8	398

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
171	0278/2215-0279/2215	BIG DALTON AV	8	300
172	0170/2215-0173/2215	WALNUT CREEK PKWY	8	148
173	0430/2169-0431/2169	FEATHER AVE	8	330
174	0044/2215-0045/2215	STERLING DR	8	307
175	0044/2215-0045/2215	STERLING DR	8	56
176	N/A	N/A	8	209
177	0460/2215-0461/2215	N/A	8	254
178	0093/2170-0094/2170	DALEWOOD ST	8	132
179	0654/2170-0714/2169	BESS AV	12	305
180	0687/2169-0699/2169	FRANCISQUITO AV	8	47
181	0529/2214-0530/2214	STANCROFT ST	8	319
182	0536/2214-0541/2214	OLIVE ST	12	329
183	0242/2168-0255/2168	OHIO ST	8	320
184	0267/2168-0268/2168	BENBOW ST	8	318
185	0201/2214-0217/2214	STEWART AV	12	155
186	0199/2214-0200/2214	LOS ANGELES ST	8	280
187	0013/2168-0014/2168	BRESEE AV	8	274
188	0306/2168-0307/2168	ANADA ST	8	219
189	0072/2214-0073/2214	CALAIS ST	8	217
190	0301/2214-0302/2214	BALDWIN AV	8	336
191	0118/2214-0144/2214	ROCKENBACH ST	8	134
192	0139/2214-0140/2214	OHIO ST	8	200
193	0065/2214-0066/2214	LARRY AV	8	349
194	0456/2214-0457/2214	BOGART AV	8	267
195	0229/2215-0230/2215	CENTRAL AV	8	168
196	0241/2214-0697/2214	LA RICA AV	8	53
197	0698/2169-0367/2168	CENTER ST	15	343
198	0386/2168-0387/2168	N/A	15	96
199	0719/2169-0720/2169	BESS AVE	8	235
200	0465/2169-0466/2169	FOSTER AVE	8	260
201	0388/2169-0389/2169	GARVEY AV	8	133
202	0449/2169-0450/2169	N/A	8	204
203	0231/2169-0232/2169	MANGUM ST	8	350
204	0217/2215-0218/2215	N/A	8	217
205	0402/2215-0403/2215	WILLOW AV	8	171
206	0118/2215-0119/2215	STICHMAN AV	8	330
207	0495/2169-0503/2169	KENMORE AVE	8	150
208	0418/2169-0419/2169	N/A	8	138
209	0018/2215-0641/2169	N/A	8	214
210	0360/2169-0361/2169	GARVEY AVE	12	263
211	0095/2170-0096/2170	NOLINA AV	8	312
212	0169/2214-0172/2214	CAVELL PL	8	295
213	0210/2214-0211/2214	LOS ANGELES ST	8	233
214	0398/2214-0399/2214	PARK AV	8	323
215	0376/2214-0377/2214	ESTELLA ST	8	268
216	0259/2214-0694/2214	CLARK ST	8	24
217	0325/2214-0326/2214	DOWNING AV	8	349
218	0626/2214-0627/2214	AZUSA CANYON RD	8	310
219	0324/2168-0325/2168	N/A	8	239
220	0248/2168-0340/2168	N/A	8	197
221	0021/2214-0022/2214	BENHAM AV	8	166
222	0331/2168-0332/2168	COMMERCE CIR	8	270
223	0604/2169-0001/2168	CUTLER AV	8	330
224	0240/2215-0339/2215	CENTRAL AV	8	124
225	0342/2215-0344/2215	BIG DALTON AV	8	212
226	0511/2169-0678/2169	MONTEREY AV	8	85

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
227	0586/2169-0100/2168	FILHURST AV	8	77
228	0556/2169-0098/2168	HARLAN AV	18	301
229	0057/2168-0058/2168	WALNUT ST	12	261
230	0240/2168-0241/2168	MERCED AV	8	325
231	0173/2168-0175/2168	CENTER ST	15	271
232	0314/2168-0315/2168	COMMERCE DR	8	350
233	0230/2168-0278/2168	N/A	8	328
234	0682/2169-0683/2169	N/A	8	135
235	0067/2169-0068/2169	BESS AVE	8	350
236	0443/2169-0462/2169	CORAK ST	8	201
237	0548/2169-0549/2169	N/A	8	156
238	0399/2169-0460/2169	MAINE AVE	8	122
239	0156/2169-0184/2169	CORAK ST	8	304
240	0142/2169-0143/2169	ATHOL ST	10	250
241	0059/2169-0060/2169	FAIRGROVE ST	8	276
242	0123/2169-0124/2169	RHODES LN	8	345
243	0037/2169-0038/2169	BLLENHEIM ST	8	352
244	0595/2169-0680/2169	KENMORE AV	8	146
245	0168/2215-0169/2215	ALLEY	8	208
246	0501/2169-0502/2169	KENMORE AVE	8	253
247	0465/2215-0466/2215	N/A	8	350
248	0275/2169-TRUNK/2169	ALLEY	12	120
249	0205/2170-0206/2170	N/A	8	216
250	0153/2214-0154/2214	BALDWIN PARK AV	12	324
251	0201/2214-0202/2214	LOS ANGELES ST	8	330
252	0183/2214-0184/2214	LAURENS AV	8	338
253	0147/2214-0148/2214	ROCKENBACH ST	8	289
254	0360/2214-0371/2214	MAINE AV	12	34
255	0381/2214-0382/2214	ESTELLA ST	8	276
256	0008/2214-0009/2214	STEWART AV	8	259
257	0140/2214-0141/2214	OHIO ST	8	287
258	0503/2214-0504/2214	GRAYHURST AV	8	301
259	0571/2214-TRNK/2214	N/A	8	171
260	0603/2214-0604/2214	AZUSA CANYON RD	8	310
261	0196/2215-0197/2215	JEREMIE AV	8	300
262	0109/2169-0672/2169	SALISBURY ST	8	184
263	0107/2169-0671/2169	SALISBURY ST	8	258
264	0117/2169-0118/2169	N/A	8	276
265	0110/2169-0111/2169	N/A	8	199
266	0382/2168-0383/2168	CENTER ST	15	56
267	0493/2169-0494/2169	FRAZIER ST	10	330
268	0492/2169-0493/2169	FRAZIER ST	10	333
269	0398/2169-0399/2169	CORAK ST	8	186
270	0446/2169-0447/2169	BALDWIN PARK BV	12	278
271	0283/2169-0284/2169	FAIRGROVE ST	8	325
272	0048/2169-0053/2169	BARNES AVE	8	302
273	0581/2169-0582/2169	CENTER ST	8	27
274	0591/2169-0592/2169	WALNUT ST	12	301
275	0084/2215-0085/2215	CLOVERSIDE ST	8	378
276	0069/2215-0083/2215	CEDARWOOD ST	8	355
277	0257/2215-0258/2215	MILLBURY AV	8	109
279	0359/2169-0360/2169	GARVEY AVE	12	263
280	0274/2169-0275/2169	ALLEY	12	300
281	0072/2169-0073/2169	TORCH ST	15	140
282	0180/2214-0181/2214	OHIO ST	8	248
283	0523/2214-0528/2214	OLIVE ST	12	297

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
284	0175/2214-0177/2214	LARRY AV	8	200
285	0389/2214-0390/2214	PHELAN AV	8	100
286	0298/2168-L.H./2168	CLEARCREST DR	8	127
287	0688/2214-0689/2214	MASLINE ST	8	333
288	0316/2214-0317/2214	CHILCOT ST	8	75
289	0616/2214-0617/2214	ANNISTON AV	8	312
290	0609/2214-0610/2214	AZUSA CANYON RD	8	340
291	0259/2168-0341/2168	JERRY AV	8	126
292	0284/2168-0285/2168	CUTLER AV	8	38
293	0024/2214-0693/2214	BENHAM AV	8	143
294	0021/2213-0022/2213	ARROW HWY	8	15
295	0019/2213-0020/2213	ARROW HWY	8	350
296	0061/2214-0062/2214	LANDIS AV	8	273
297	0246/2214-0247/2214	BALDWIN PARK BV	15	303
298	0609/2169-TRUNK/2169	RAMONA PKWY	8	41
299	0179/2215-0180/2215	MAINE AV	8	130
300	0226/2215-0227/2215	ELSTEAD ST	8	217
301	0116/2168-0117/2168	HORN BROOK AV	18	217
302	0118/2168-0119/2168	LOS ANGELES ST	18	55
303	0319/2169-TRNK/2169	FRAZIER ST	8	10
304	0199/2168-0200/2168	OLIVE ST	8	50
305	0409/2168-0410/2168	N/A	8	282
306	0232/2168-0234/2168	KENMORE AV	8	269
307	0161/2168-0164/2168	HARLAN AV	8	295
308	0718/2169-0719/2169	BESS AVE	8	250
309	0457/2169-0458/2169	FRANCISQUITO AV	8	200
310	0287/2169-0292/2169	ROBINETTE AV	8	186
311	0325/2169-TRUNK/2169	N/A	8	277
312	0325/2169-0326/2169	N/A	8	125
313	0233/2169-0236/2169	WACO ST	8	225
314	0136/2169-0137/2169	COSBEY AVE	8	301
315	0157/2169-0158/2169	ALLEY	8	193
316	0221/2169-0222/2169	MANGUM ST	8	323
317	0066/2169-0644/2169	BESS AVE	8	248
318	0100/2169-0101/2169	WACO ST	8	220
319	0005/2169-0006/2169	PATRITTI AVE	8	300
320	0581/2169-0585/2169	CENTER ST	8	211
321	0614/2169-TRNK/2169	RAMONA PKWY	8	38
322	0114/2215-0279/2215	BIG DALTON AV	8	305
323	0331/2215-0332/2215	GARVEY AV	8	180
324	0642/2169-0643/2169	ILLINOIS ST	8	330
325	0414/2169-0415/2169	REXWOOD ST	8	228
326	0450/2215-TRNK/2215	REXWOOD ST	8	50
327	0072/2215-0075/2215	MERCED AV	8	286
328	0276/2169-0277/2169	GARVEY AVE	12	230
329	0263/2169-0268/2169	BESS AVE	8	260
330	0019/2170-0020/2170	LED FORD ST	10	230
331	0107/2170-0111/2170	FRAZIER ST	10	60
332	0318/2214-0352/2214	BOGART AV	8	230
333	0344/2214-0523/2214	OLIVE ST	12	261
334	0272/2168-0273/2168	BREESE AV	8	138
335	0156/2214-0157/2214	BALDWIN PARK AV	12	325
336	0407/2214-0408/2214	DEMBLON ST	8	289
337	0053/2214-0054/2214	MASLINE ST	8	229
338	0332/2214-0486/2214	NUBIA ST	10	332
339	0501/2214-0506/2214	NUBIA ST	10	356

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
340	0092/2214-0093/2214	OLIVE ST	10	52
341	0273/2214-0274/2214	MORGAN ST	8	78
342	0480/2214-0481/2214	VIRGINIA AV	8	260
343	0601/2169-0605/2169	LUBICAN ST	8	354
344	0186/2215-0450/2214	PACIFIC AV	15	61
345	0361/2168-0362/2168	BROOKS DR	8	247
346	0512/2169-0513/2169	GRACE AV	8	172
347	0306/2169-0307/2169	N/A	8	296
348	0662/2169-0663/2169	PE RR R/W	8	310
349	0400/2169-0401/2169	MAINE AVE	8	50
350	0293/2169-0315/2169	WACO ST	8	350
351	0234/2169-0235/2169	WACO ST	8	200
352	0148/2169-0149/2169	ATHOL ST	10	308
353	0027/2169-0028/2169	SYRACUSE AVE	12	300
354	0576/2169-0577/2169	BELLGREEN ST	8	250
355	0614/2169-0615/2169	N/A	8	92
356	0610/2169-0611/2169	RAMONA PKWY	8	92
357	0030/2215-0031/2215	BALDWIN PARK BV	8	300
358	0288/2215-0289/2215	MILLBURY AV	8	115
359	0396/2215-0399/2215	HOWELLHURST DR	8	265
360	0175/2215-TRNK/2215	WALNUT CREEK PKWY	8	55
361	0032/2215-0033/2215	SUSQUEHANNA AV	8	92
362	0131/2215-TRNK/2215	ROCKWAY DR	8	35
363	0203/2170-0204/2170	N/A	8	320
364	0156/2215-0649/2169	N/A	8	350
365	0424/2214-0425/2214	MAUPIN AV	8	288
366	0303/2168-0308/2168	JERRY AV	8	256
367	0251/2214-0260/2214	SHADYLAWN PL	8	334
368	0261/2214-0264/2214	N/A	8	104
369	0674/2214-0675/2214	N/A	8	215
370	0701/2214-0702/2214	N/A	8	195
371	0303/2214-0304/2214	MAINE AV	10	275
372	0703/2214-0025/2214	N/A	8	224
373	0024/2214-0025/2214	N/A	8	126
374	0024/2168-0039/2168	PALM AV	8	338
375	0445/2214-0449/2214	MAINE AV	15	245
376	0449/2214-0450/2214	MAINE AV	15	164
377	0447/2214-0448/2214	MORGAN ST	8	289
378	0460/2214-0461/2214	EAST RAMONA BV	8	228
379	0471/2214-0472/2214	EAST RAMONA BV	8	220
380	0622/2214-0027/2213	AZUSA CANYON RD	8	135
381	0401/2168-0402/2168	LIVE OAK AV	10	310
382	0587/2214-0590/2214	WILLOW AV	8	272
383	0342/2215-0343/2215	DEXTER ST	8	300
384	0149/2169-0150/2169	FRANCISQUITO AV	10	202
385	0156/2168-0157/2168	HORN BROOK AV	8	203
386	0182/2168-0186/2168	DUNIA ST	8	310
387	0203/2168-0204/2168	OLIVE ST	8	335
388	0033/2168-0034/2168	MERCED AV	10	155
389	0344/2168-0345/2168	N/A	8	134
390	0070/2168-0071/2168	N/A	8	180
391	0316/2168-0317/2168	COMMERCE DR	8	350
392	0383/2168-0384/2168	N/A	15	145
393	0198/2169-0199/2169	CORAK ST	8	214
394	0180/2169-0188/2169	FRANCISQUITO AV	8	352
395	0147/2169-0222/2169	EGIL AVE	8	294

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
396	0049/2169-0050/2169	AUKLAND ST	8	269
397	0102/2169-0105/2169	WESTCOTT AV	8	191
398	0262/2215-0263/2215	STICHMAN AV	8	215
399	0456/2215-0457/2215	N/A	8	310
400	0387/2215-0390/2215	PUENTE AV	10	26
401	0080/2215-0081/2215	PADDY LN	8	194
402	0135/2215-0136/2215	STICHMAN AV	8	139
403	0260/2169-0262/2169	BESS AVE	8	237
404	0260/2169-0261/2169	BESS AVE	15	204
405	0197/2170-0201/2170	N/A	10	206
406	0105/2170-0107/2170	FRAZIER ST	10	217
407	0149/2215-0152/2215	BIG DALTON AV	15	134
408	0130/2214-0131/2214	BENBOW ST	8	217
409	0159/2214-0206/2214	BALDWIN PARK AV	12	326
410	0187/2214-0189/2214	SCOTT PL	8	283
411	0418/2214-0419/2214	MAINE AV	15	340
412	0309/2168-0310/2168	BRESEE AV	8	300
413	0422/2214-0423/2214	CLARK ST	8	283
414	0060/2214-0061/2214	LANDIS AV	8	273
415	0109/2214-0110/2214	OLIVE ST	12	375
416	0078/2214-0079/2214	LANDIS ST	8	232
417	0090/2214-0091/2214	GATES ST	8	319
418	0317/2214-0319/2214	MARION AV	8	190
419	0052/2214-0053/2214	MASLINE ST	8	216
420	0027/2213-0029/2213	ARROW HWY	8	292
421	0057/2214-0058/2214	JOANBRIDGE ST	8	168
422	0461/2214-0462/2214	DOWNING AV	8	101
423	0655/2169-0656/2169	N/A	8	198
424	0507/2169-0655/2169	MONTEREY AV	8	139
425	0046/2168-0047/2168	WALNUT ST	12	314
426	0040/2168-0322/2168	MERCED AV	10	200
427	0111/2168-0112/2168	PALM AV	18	238
428	0153/2168-0154/2168	BELGATE ST	8	176
429	0408/2168-0409/2168	N/A	8	225
430	0352/2168-0353/2168	LITTLE JOHN ST	12	256
431	0069/2168-0072/2168	CENTER ST	8	103
432	0278/2168-0287/2168	KENMORE AV	8	289
433	0707/2169-0710/2169	N/A	8	99
434	0310/2169-0312/2169	TRACY ST	8	201
435	0243/2169-0721/2169	FAIRGROVE ST	8	59
436	0629/2169-0630/2169	IDAHO ST	8	211
437	0526/2169-0527/2169	RAMONA BLVD	8	292
438	0166/2169-0167/2169	FOSTER AVE	8	144
439	0470/2169-0471/2169	FOSTER AVE	8	281
440	0457/2169-0461/2169	FRANCISQUITO AV	8	187
441	0143/2169-0144/2169	ATHOL ST	10	300
442	0252/2169-0253/2169	COSBEY AVE	8	298
443	0064/2169-0065/2169	BARNES AVE	8	230
444	0042/2169-0047/2169	BARNES AVE	8	249
445	0091/2169-0092/2169	CHELSEFIELD ST	8	247
446	0613/2169-TRUNK/2169	RAMONA PKWY	8	42
447	0221/2215-0222/2215	AHERN DR	8	139
449	0347/2215-0348/2215	CENTRAL AV	8	249
450	0409/2169-0410/2169	MAINE AVE	8	311
451	0006/2170-0007/2170	LEDFORD ST	8	310
452	0372/2169-0373/2169	DALEWOOD ST	8	261

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
453	0699/2169-0700/2169	FRANCISQUITO AV	12	133
454	0670/2214-0007/2168	ALLEY	8	288
455	0165/2214-0207/2214	BALDWIN PARK AV	8	296
456	0254/2214-0255/2214	ALTALAKE AV	8	373
457	0404/2214-0405/2214	LOS ANGELES ST	8	254
458	0400/2214-0417/2214	PARK AV	8	321
459	0408/2214-0409/2214	DEMBLON ST	8	172
460	0074/2214-0076/2214	BALDWIN PARK AV	8	256
461	0607/2214-0608/2214	AZUSA CANYON RD	8	303
462	0628/2214-0629/2214	AZUSA CANYON RD	8	340
463	0239/2214-0700/2214	LA RICA AV	8	27
464	0253/2214-0271/2214	BALDWIN PARK BV	8	20
465	0276/2214-0277/2214	MORGAN ST	8	94
466	0462/2214-0463/2214	DOWNING AV	8	318
468	0645/2169-0692/2169	N/A	8	98
469	0645/2169-0692/2169	N/A	8	52
470	N/A	N/A	8	180
471	0058/2215-0181/2215	PADDY LN	8	336
472	0183/2215-0184/2215	PACIFIC AV	8	185
473	0490/2169-0653/2169	GRACE AV	8	202
474	0117/2168-0118/2168	HORNBROOK AV	18	191
475	0212/2168-0213/2168	OLIVE ST	12	325
476	0159/2169-0160/2169	RAMONA BLVD	8	345
477	0568/2169-TRUNK/2169	CENTER ST	12	50
478	0462/2169-0463/2169	CORAK ST	8	254
479	0538/2169-0539/2169	N/A	8	102
480	0535/2169-0536/2169	RAMONA BLVD	8	205
481	0616/2169-0617/2169	N/A	8	92
482	0495/2169-0625/2169	KENMORE AVE	8	325
483	0294/2169-0295/2169	WACO ST	8	54
484	0156/2169-0157/2169	ALLEY	8	269
485	0023/2169-0060/2169	FAIRGROVE ST	8	263
486	0162/2215-0163/2215	GARVEY AV	8	150
487	0116/2215-0138/2215	BIG DALTON AV	15	354
488	0092/2215-0093/2215	MOSSBERG ST	8	219
489	0219/2215-0220/2215	CHANNING ST	8	125
490	0408/2215-0410/2215	MAYLAND AV	8	361
491	0385/2215-0394/2215	HOWELLHURST DR	8	227
492	0351/2215-0352/2215	MILLBURY AV	8	95
493	0507/2169-0508/2169	MONTEREY AV	8	285
494	0421/2169-0422/2169	FOSTER AVE	12	146
495	0127/2215-0128/2215	N/A	8	218
496	0131/2170-0132/2170	JUDITH ST	8	119
497	0199/2170-0200/2170	BALDWIN PARK BV	10	344
498	0646/2169-0647/2169	FRANCISQUITO AV	8	250
499	0149/2215-0150/2215	CORAK ST	8	320
500	0131/2214-0132/2214	BENBOW ST	8	161
501	0251/2168-0252/2168	JERRY AV	8	219
502	0265/2168-0266/2168	CUTLER AV	8	237
503	0217/2214-0218/2214	STEWART AV	12	350
504	0468/2214-0469/2214	ALDERSON AV	8	322
505	0294/2168-0295/2168	BRESEE AV	8	175
506	0282/2168-0283/2168	MASLINE ST	8	260
507	0183/2214-0676/2214	LAURENS AV	8	51
508	0081/2214-0082/2214	LANDIS ST	8	155
509	0545/2214-0546/2214	FORTIN ST	8	298

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
510	0258/2168-0259/2168	JERRY AV	8	274
511	0034/2214-0035/2214	SANDSTONE ST	8	272
512	0114/2214-0115/2214	STEWART AV	8	361
513	0041/2168-0042/2168	ELWYN DR	8	50
514	0590/2214-CITY/2214	WILLOW AV	8	256
515	0112/2168-0113/2168	PALM AV	8	162
516	0154/2168-0155/2168	BELGATE ST	8	226
517	0036/2168-0346/2168	MERCED AV	10	141
518	0360/2168-0361/2168	BROOKS DR	8	70
519	0202/2168-0215/2168	WALNUT ST	10	320
520	0206/2169-0209/2169	LOMA LN	8	201
521	0197/2169-0198/2169	CEDAR CIR	8	130
522	0210/2169-0214/2169	FRAZIER ST	8	309
523	0082/2169-0083/2169	N/A	8	100
524	0007/2169-0008/2169	PATRITTI AVE	8	299
525	0697/2169-0698/2169	CENTER ST	15	355
526	0041/2215-0047/2215	LARICA AV	8	231
527	0231/2215-0232/2215	STICHMAN AV	8	316
528	0277/2215-0278/2215	BIG DALTON AV	8	300
529	0280/2215-0281/2215	MILLBURY AV	8	338
531	0420/2169-0421/2169	N/A	8	204
532	0424/2169-TRUNK/2169	FOSTER AVE	12	350
533	0651/2170-0652/2170	N/A	8	288
534	0123/2170-0124/2170	BESS AV	10	217
535	0023/2170-0093/2170	DALEWOOD ST	8	343
536	0118/2170-0119/2170	JUDITH ST	8	349
537	0215/2214-0216/2214	LOS ANGELES ST	8	369
538	0264/2214-0265/2214	N/A	8	210
539	0569/2214-0570/2214	PUENTE AV	8	307
540	0678/2214-0679/2214	LARRY AV	8	242
541	0543/2214-0688/2214	FORTIN ST	8	62
542	0072/2214-0074/2214	BALDWIN PARK AV	8	259
543	0024/2168-0025/2168	JERRY AV	8	288
544	0595/2214-0596/2214	LA SENA AV	8	261
545	0443/2214-0445/2214	MAINE AV	15	78
546	0624/2214-0625/2214	AZUSA CANYON RD	8	296
547	0014/2215-0015/2215	RAMONA BV	8	300
548	0222/2214-0223/2214	STEWART AV	12	357
549	0525/2169-0678/2169	MONTEREY AV	8	240
550	0108/2169-0672/2169	SALISBURY ST	8	84
551	0039/2169-0112/2169	N/A	8	204
552	0716/2169-0717/2169	N/A	8	280
553	0536/2169-0538/2169	RAMONA BLVD	8	188
554	0532/2169-0533/2169	N/A	8	102
555	0466/2169-0467/2169	FOSTER AVE	8	251
556	0397/2169-0398/2169	CORAK ST	8	186
557	0047/2169-0048/2169	BARNES AVE	8	246
558	0588/2169-0590/2169	FILHURST AV	8	165
559	0092/2215-0094/2215	FEATHER AV	8	239
560	0425/2169-0131/2215	ROCKWAY DR	8	268
561	0460/2215-TRNK/2215	VINELAND AV	8	30
562	0094/2215-0095/2215	CUTLER AV	8	95
563	0209/2215-TRNK/2215	VINELAND AV	15	41
564	0328/2215-0329/2215	GARVEY AV	8	259
565	0119/2215-0120/2215	KENMORE CR	8	132
566	0428/2169-0429/2169	FEATHER AVE	8	134

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
567	0126/2215-0127/2215	N/A	8	168
568	0107/2170-0108/2170	AMAR RD	8	346
569	0202/2214-0203/2214	LOS ANGELES ST	8	330
570	0213/2214-0214/2214	LOS ANGELES ST	8	364
571	0676/2214-0677/2214	ALLEY	8	215
572	0086/2214-0088/2214	WIMMER AV	8	300
573	0324/2214-0325/2214	DOWNING AV	8	418
574	0119/2214-0192/2214	STEWART AV	10	271
575	0328/2214-0704/2214	BLEECKER AV	10	48
576	0018/2214-0019/2214	NUBIA ST	8	229
577	0018/2214-0020/2214	BENHAM AV	8	326
578	0395/2168-0396/2168	COMMERCE DR	15	192
579	0455/2214-0456/2214	BOGART AV	8	267
580	0048/2215-0179/2215	MAINE AV	8	220
581	0346/2168-0347/2168	N/A	8	280
582	0178/2168-0185/2168	CENTER ST	15	201
583	0668/2169-0684/2169	N/A	8	187
584	0392/2169-0394/2169	PADDY LN	8	179
585	0454/2169-0455/2169	MAINE AVE	8	318
586	0319/2169-0320/2169	FRAZIER ST	8	11
587	0081/2169-0261/2169	BESS AVE	15	224
588	0161/2215-0162/2215	GARVEY AV	8	235
589	0325/2215-0326/2215	GARVEY AV	8	177
590	0042/2215-0043/2215	BALDWIN PARK BV	8	360
591	0274/2215-0275/2215	BIG DALTON AV	8	351
592	0268/2215-0272/2215	BIG DALTON AV	8	205
594	0408/2215-0409/2215	PACIFIC AV	8	298
595	0309/2215-0310/2215	ALLEY	8	200
596	0327/2215-0328/2215	PUENTE AV	12	363
597	0626/2169-0627/2169	IDAHO ST	8	287
598	0415/2169-0417/2169	N/A	8	223
599	0419/2169-0420/2169	N/A	8	35
600	0151/2215-0464/2215	N/A	8	300
601	0117/2170-0118/2170	JUDITH ST	8	339
602	0416/2216-0417/2216	FRANCISQUITO AV	8	351
603	0010/2168-0273/2168	BRESEE AV	8	352
604	0276/2168-0277/2168	CUTLER AV	8	235
605	0385/2214-0401/2214	MAINE AV	12	296
606	0401/2214-0402/2214	MAINE AV	12	177
607	0386/2214-0668/2214	PALMROSE ST	8	290
608	0614/2214-0618/2214	ANNISTON AV	8	244
609	0621/2214-0630/2214	AZUSA CANYON RD	10	20
610	0488/2214-0489/2214	CRAGMONT ST	8	301
611	0446/2214-0447/2214	ALLEY	8	75
612	0397/2168-0398/2168	COMMERCE DR	15	226
613	0001/2215-0604/2169	BELGREEN ST	8	330
614	0008/2215-0650/2169	RAMONA BLVD	8	294
615	0043/2215-0044/2215	BALDWIN PARK BV	8	361
616	0020/2215-0362/2215	PUENTE AV	8	156
617	0432/2169-0433/2169	N/A	8	100
618	0505/2169-0506/2169	MONTEREY AV	8	290
619	0251/2169-0252/2169	COSBEY AVE	8	104
620	0313/2215-0314/2215	PUENTE AV	12	363
621	0137/2215-CO/2215	JEANETTE LN	8	145
622	0408/2169-0409/2169	MAINE AVE	8	311
624	0001/2170-0002/2170	DALEWOOD ST	8	205

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
625	0445/2214-0446/2214	ALLEY	8	333
626	0320/2168-0321/2168	COMMERCE DR	8	263
627	0221/2168-0222/2168	MONTEREY AV	8	298
628	0445/2169-0458/2169	FRANCISQUITO AV	8	268
629	0031/2169-0032/2169	RAMONA BLVD	8	309
630	0053/2215-0061/2215	MACDEVITT ST	8	333
631	0291/2215-0293/2215	MILLBURY AV	8	300
632	0628/2169-0633/2169	ILLINOIS ST	8	174
633	0132/2215-TRNK/2215	VINELAND AV	8	39
634	0713/2169-TRNK/2169	N/A	12	279
635	0373/2214-0375/2214	MAINE AV	12	212
636	0290/2214-0703/2214	JOANBRIDGE ST	8	281
637	0015/2213-0016/2213	ARROW HWY	8	338
638	0041/2169-0110/2169	N/A	8	205
639	0039/2168-0040/2168	MERCED AV	10	326
640	0369/2168-0370/2168	CENTER ST	15	343
641	0264/2215-0265/2215	STICHMAN AV	8	215
642	0232/2215-0233/2215	STICHMAN AV	8	315
643	0269/2215-0270/2215	N/A	8	69
645	0243/2215-0244/2215	N/A	8	317
646	0036/2215-0468/2215	STEWART AV	8	183
647	0450/2169-0451/2169	N/A	8	175
648	0388/2214-0389/2214	PHELAN AV	8	125
649	0494/2214-0495/2214	ELTON ST	8	274
650	0280/2214-0281/2214	ROBIN AV	8	134
651	0606/2214-0607/2214	AZUSA CANYON RD	8	297
652	0182/2215-0183/2215	MAINE AV	8	140
653	0195/2215-TRNK/2215	VINELAND AV	8	40
654	0063/2168-0064/2168	LOS ANGELES ST	8	315
655	0077/2168-0078/2168	FOUNTAIN CT	8	188
656	0194/2168-0195/2168	COMMERCE DR	8	88
657	0170/2169-0171/2169	ATHOL ST	8	256
658	0375/2215-0376/2215	CHETNEY DR	8	235
659	0415/2169-0416/2169	REXWOOD ST	8	133
660	0260/2168-0269/2168	BRESEE AV	8	250
661	0281/2168-0282/2168	MASLINE ST	8	245
662	0467/2214-0468/2214	ALDERSON AV	8	327
663	0506/2214-0512/2214	NUBIA ST	10	142
664	0462/2214-0465/2214	RAILROAD AV	8	230
665	0308/2169-0690/2169	TRACY ST	8	70
666	0061/2215-0062/2215	PADDY LN	8	278
667	0059/2215-0060/2215	PADDY LN	8	325
668	0233/2215-0234/2155	PACIFIC AV	8	272
670	0250/2215-0252/2215	PACIFIC AV	8	199
671	0206/2214-0207/2214	BALDWIN PARK AV	8	60
672	0399/2168-0214/2167	LIVE OAK AV	10	111
673	0183/2169-0184/2169	N/A	8	224
674	0596/2214-0597/2214	LA SENA AV	8	98
675	0439/2169-0440/2169	BALDWIN PARK BV	12	337
676	0523/2169-0524/2169	RAMONA BLVD	8	283
677	0390/2169-0391/2169	FRANCISQUITO AV	8	283
678	0039/2169-0040/2169	BARNES AVE	8	116
680	0363/2215-0369/2215	CHETNEY DR	8	136
681	0035/2215-0468/2215	STEWART AV	8	146
682	0224/2168-0225/2168	ROCKENBACH ST	8	65
683	0520/2169-TRUNK/2169	RAMONA BLVD	8	86

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
684	0141/2169-0142/2169	ATHOL ST	10	210
685	0081/2169-0082/2169	N/A	8	350
686	0557/2169-0558/2169	HARLAN AV	18	290
687	0266/2215-0267/2215	STICHMAN AV	8	215
688	0017/2170-0018/2170	HENSEL ST	8	335
689	0109/2170-0110/2170	AMAR RD	8	224
690	0582/2214-0583/2214	N/A	8	195
691	0129/2214-0130/2214	BENBOW ST	8	267
692	0187/2215-0188/2215	RAILROAD AV	8	300
693	0020/2215-0105/2215	N/A	8	240
694	0552/2169-0553/2169	HORN BROOK AV	8	281
695	0263/2215-0264/2215	STICHMAN AV	8	215
696	0122/2215-TRNK/2215	VINELAND AV	8	50
697	0541/2214-0542/2214	OLIVE ST	12	332
698	0042/2214-0059/2214	NUBIA ST	8	200
699	0206/2215-0207/2215	PACIFIC AV	15	194
700	0556/2169-0557/2169	HARLAN AV	18	299
701	0056/2215-0057/2215	MAINE AV	8	277
702	0308/2215-0309/2215	PUENTE AV	12	23
703	0713/2169-0714/2169	DALEWOOD ST	12	194
704	0233/2214-0234/2214	BALLENTINE PL	8	261
705	0023/2213-0024/2213	ARROW HWY	8	343
706	0287/2214-0293/2214	MAINE AV	10	365
707	0608/2169-0609/2169	N/A	8	76
708	0181/2169-0182/2169	FRANCISQUITO AV	8	258
709	0133/2168-0348/2168	N/A	12	78
710	0089/2169-0090/2169	FAIRGROVE ST	8	244
711	0565/2214-0568/2214	PUENTE AV	8	290
712	0017/2168-0018/2168	BRESEE AV	8	329
713	0112/2169-0117/2169	N/A	8	275
714	0219/2169-0220/2169	EMERY AV	8	191
715	0106/2168-0107/2168	PALM AV	8	201
716	0146/2168-0147/2168	DEMBLON ST	8	264
717	0186/2168-0187/2168	CENTER ST	15	275
718	0296/2169-0299/2169	WACO ST	8	136
719	0130/2169-0131/2169	SN GBRL R PKY	8	270
720	0155/2169-0156/2169	ALLEY	8	250
721	0381/2215-0382/2215	JEREMIE ST	8	268
722	0406/2169-0407/2169	MAINE AVE	8	311
723	0204/2170-0205/2170	N/A	10	57
724	0516/2214-0517/2214	NUBIA ST	10	240
725	0104/2214-0105/2214	OLIVE ST	8	375
726	0024/2213-0025/2213	ARROW HWY	8	343
727	0066/2214-0067/2214	LARRY AV	8	375
728	0190/2215-0481/2214	VIRGINA AV	8	300
729	0099/2168-0100/2168	FILHURST AV	8	288
730	0349/2168-0350/2168	LITTLE JOHN ST	12	361
731	0344/2169-0345/2169	FRANCISQUITO AV	8	259
732	0108/2215-0109/2215	STICHMAN AV	8	150
733	0260/2215-0268/2215	BIG DALTON AV	8	303
734	0294/2215-0295/2215	VAN WIG AV	8	294
735	0175/2214-0176/2214	BROOKPORT ST	8	165
736	0534/2214-0535/2214	BOREL ST	8	309
737	0432/2214-0433/2214	DOWNING AV	8	245
738	0004/2168-0005/2168	CUTLER AV	8	285
739	0615/2214-0616/2214	ANNISTON AV	8	290

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
740	0548/2214-0553/2214	OLIVE ST	12	226
741	0204/2215-0205/2215	PACIFIC AV	8	384
742	0217/2169-0218/2169	EMERY AV	8	330
743	0238/2168-0239/2168	MERCED AV	8	209
744	0536/2169-0537/2169	N/A	8	102
745	0069/2169-0070/2169	TORCH ST	15	127
746	0230/2214-0231/2214	CLARK ST	8	169
747	0367/2214-0368/2214	BOGART AV	8	233
748	0619/2214-0620/2214	OLIVE ST	12	294
749	0249/2168-0250/2168	MERCED AV	8	110
750	0175/2168-0177/2168	CENTER ST	15	338
751	0531/2169-0532/2169	RAMONA BLVD	8	221
752	0318/2169-0319/2169	DART ST	8	260
753	0564/2169-0590/2169	FILHURST AV	8	205
754	0222/2215-0223/2215	AHERN DR	8	349
755	0276/2215-0456/2215	BIG DALTON AV	8	216
756	0387/2215-0407/2215	PACIFIC AV	8	285
757	0414/2169-0418/2169	PADDY LN	8	326
758	0012/2169-0017/2169	TORCH ST	8	300
759	0264/2168-C.O./2168	CUTLER AV	8	269
760	0314/2169-TRUNK/2169	TRACY ST	8	240
761	0245/2168-0246/2168	MERCED AV	8	135
762	0598/2169-TRNK/2169	RAMONA PKWY	10	180
763	0558/2169-0559/2169	HARLAN AV	18	191
764	0555/2169-0105/2168	HORN BROOK AV	8	248
765	0284/2215-0285/2215	MILLBURY AV	8	377
766	0296/2215-0297/2215	VAN WIG AV	8	156
767	0297/2215-0298/2215	VAN WIG AV	8	119
768	0176/2215-SS/2215	SIESTA AV	8	280
769	0259/2169-0260/2169	ATHOL ST	12	230
770	0116/2170-0117/2170	JUDITH ST	8	339
771	0452/2169-0454/2169	MAINE AVE	8	199
772	0005/2214-0006/2214	STEWART AV	8	160
773	0216/2168-0217/2168	WALNUT ST	10	325
774	0137/2169-0138/2169	COSBEY AVE	8	299
775	0126/2170-0127/2170	SHAVER ST	8	40
776	0378/2214-0379/2214	ESTELLA ST	8	245
777	0320/2168-0331/2168	COMMERCE DR	8	22
778	0016/2214-0017/2214	BENHAM AV	8	200
779	0018/2169-PUMP STA./2169	TORCH ST	6	346
780	0124/2168-0125/2168	HARLAN AV	8	348
781	0378/2168-0379/2168	CENTER ST	15	342
782	0597/2169-0598/2169	MERCED ST	10	200
783	0390/2215-0391/2215	PACIFIC AV	8	247
784	0167/2215-0168/2215	PUENTE AV	8	244
785	0176/2215-TRNK/2215	SIESTA AV	8	267
786	0157/2215-TRNK/2215	N/A	15	6
787	0074/2214-0075/2214	ANADA ST	8	355
788	0046/2214-0047/2214	CALAIS ST	8	275
789	0127/2214-0129/2214	LA RICA AV	8	287
790	0170/2168-C.O./2168	GRACE AV	8	110
791	0180/2168-0181/2168	DUNIA ST	8	220
792	0092/2214-0208/2168	OLIVE ST	12	331
793	0242/2214-0697/2214	LA RICA AV	8	257
794	0115/2169-0116/2169	N/A	8	360
795	0216/2169-0223/2169	FRAZIER ST	8	200

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
796	0218/2169-0219/2169	EMERY AV	8	330
797	0618/2169-TRNK/2169	N/A	8	22
798	0173/2169-0174/2169	EARL AVE	8	285
799	0053/2169-0054/2169	BARNES AVE	8	202
800	0617/2169-TRUNK/2169	RAMONA PKWY	8	28
801	0336/2215-0337/2215	GARVEY AV	8	208
802	0306/2215-0307/2215	ALLEY	8	200
803	0122/2170-0123/2170	BESS AV	10	177
804	0204/2214-0205/2214	LOS ANGELES ST	8	277
805	0058/2168-0062/2168	LOS ANGELES ST	10	20
806	0343/2168-0344/2168	N/A	8	140
807	0253/2169-0254/2169	COSBEY AVE	8	269
808	0377/2215-0378/2215	WILLOW AV	8	350
809	0173/2215-0174/2215	ARDILLA AV	8	177
810	0096/2170-0097/2170	NOLINA AV	8	142
811	0237/2214-0238/2214	CLARK ST	8	260
812	0014/2214-0015/2214	BENHAM AV	8	115
813	0601/2169-0602/2169	BRESEE AV	8	325
814	0192/2215-0193/2215	CENTRAL AV	8	279
816	0109/2168-0110/2168	PALM AV	8	215
817	0373/2168-0374/2168	CENTER ST	15	8
818	0309/2169-0690/2169	TRACY ST	8	76
819	0246/2215-0247/2215	BIG DALTON AV	8	270
820	0356/2215-0357/2215	CLEARY DR	8	400
821	0005/2170-0006/2170	DALEWOOD ST	8	146
822	0386/2214-0437/2214	MAINE AV	15	232
823	0044/2214-0045/2214	CHILCOT ST	8	261
824	0328/2214-0329/2214	BLEECKER AV	10	274
825	0542/2214-0547/2214	OLIVE ST	12	331
826	0586/2214-0587/2214	ADAMS DR	8	215
827	0032/2168-0250/2168	MERCED AV	8	95
828	0164/2168-0323/2168	N/A	8	333
829	0348/2169-0349/2169	FRANCISQUITO AV	8	266
830	0544/2169-0545/2169	RAMONA PKWY	8	92
831	0528/2169-0531/2169	RAMONA BLVD	8	183
832	0587/2169-0588/2169	FILHURST AV	8	305
833	0070/2215-0071/2215	MAINE AV	8	296
834	0125/2215-0126/2215	N/A	8	254
835	0371/2169-0372/2169	DALEWOOD ST	8	167
836	0018/2169-0069/2169	TORCH ST	15	331
837	0330/2214-0331/2214	NUBIA ST	8	293
838	0287/2214-0288/2214	JOANBRIDGE ST	8	285
839	0104/2168-0105/2168	HORN BROOK AV	8	112
840	0044/2168-0176/2168	KENMORE AV	8	40
841	0150/2168-0151/2168	BELGATE ST	8	15
842	0479/2169-0480/2169	REXWOOD AV	8	205
843	0369/2215-0370/2215	CHETNEY DR	8	266
844	0121/2170-0122/2170	BESS AV	10	278
845	0451/2215-TRNK/2215	LA RICA AV	8	181
846	0396/2168-0397/2168	COMMERCE DR	15	183
847	0152/2169-0153/2169	FRANCISQUITO AV	10	235
848	0318/2168-0319/2168	COMMERCE DR	8	364
849	0475/2169-0476/2169	ROCKWAY DR	10	230
850	0041/2169-0042/2169	BARNES AVE	8	190
851	0134/2214-0137/2214	DUNIA ST	8	127
852	0210/2168-0211/2168	OLIVE ST	12	334

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
853	0544/2214-0688/2214	FORTIN ST	8	246
854	0112/2214-0113/2214	STEWART AV	8	150
855	0115/2215-0293/2215	MERCED AV	12	337
856	0390/2215-0393/2215	PUENTE AV	10	368
857	0404/2215-0405/2215	HOWELLHURST DR	8	338
858	0306/2214-0337/2214	MAINE AV	10	336
859	0492/2214-0493/2214	NUBIA ST	10	44
860	0455/2214-0460/2214	EAST RAMONA BV	8	206
861	0708/2169-0709/2169	N/A	8	156
862	0205/2169-0206/2169	LOMA LN	8	209
863	0249/2169-0252/2169	COSBEY AVE	8	320
864	0553/2169-0554/2169	HORNBROOK AV	8	249
865	0171/2214-0179/2214	LANDIS AV	8	280
866	0160/2214-0161/2214	BALDWIN PARK AV	8	293
867	0206/2168-0207/2168	OLIVE ST	8	331
868	0107/2214-0108/2214	OLIVE ST	12	370
869	0653/2169-0654/2169	N/A	8	300
870	0012/2169-PUMP STA./2169	N/A	8	62
871	0045/2168-0046/2168	WALNUT ST	12	304
872	0221/2169-0231/2169	MANGUM ST	8	335
873	0392/2215-0458/2215	PACIFIC AV	8	197
874	0137/2214-0138/2214	DUNIA ST	8	201
875	0146/2214-0147/2214	ROCKENBACH ST	8	287
876	0103/2168-0104/2168	N/A	8	329
877	0547/2169-0548/2169	N/A	8	43
878	0073/2215-0074/2215	MAINE AV	8	311
879	0097/2170-0099/2170	LEDFORD ST	10	234
880	0178/2214-0179/2214	OHIO ST	8	247
881	0531/2214-0532/2214	BOREL ST	8	311
882	0205/2168-0206/2168	OLIVE ST	8	330
883	0041/2214-0042/2214	BALDWIN PARK AV	8	330
884	0226/2214-0227/2214	PALM AV	8	221
885	0353/2168-0354/2168	LITTLE JOHN ST	12	63
886	0244/2168-0245/2168	MERCED AV	8	192
887	0215/2168-0216/2168	WALNUT ST	10	326
888	0338/2215-CITY/2215	GARVEY AV	8	230
889	0225/2215-TRNK/2215	CHANNING ST	8	50
890	0072/2215-0076/2215	MERCED AV	12	279
891	0353/2214-0354/2214	N/A	8	75
892	0548/2214-0549/2214	LANTE ST	8	309
893	0239/2168-0240/2168	MERCED AV	8	270
894	0347/2169-0348/2169	FRANCISQUITO AV	8	266
895	0485/2169-0486/2169	REXWOOD AV	8	276
896	0184/2169-0185/2169	CORAK ST	8	240
897	0594/2169-0595/2169	N/A	8	345
898	0211/2215-0212/2215	DOWNING AV	8	327
899	0412/2169-0413/2169	PADDY LN	8	252
900	0099/2170-0100/2170	FRAZIER ST	10	70
901	0135/2214-0136/2214	EDRA AV	8	350
902	0405/2214-0408/2214	BOGART AV	8	315
903	0117/2214-0139/2214	OHIO ST	8	87
904	0210/2215-0211/2215	DOWNING AV	8	330
905	0151/2168-0171/2168	N/A	8	245
906	0385/2168-0386/2168	N/A	15	160
907	0389/2169-0390/2169	GARVEY AV	8	279
908	0321/2169-0322/2169	N/A	8	80

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
909	0065/2169-0066/2169	BARNES AVE	8	199
910	0111/2215-0115/2215	MERCED AV	8	370
911	0256/2215-0257/2215	MILLBURY AV	8	95
912	0165/2215-0166/2215	PUENTE AV	8	257
913	0022/2170-TRNK/2170	DALEWOOD ST	8	18
914	0613/2214-0614/2214	LA SENA AV	8	323
915	0128/2214-0129/2214	BENBOW ST	8	251
916	0589/2214-0590/2214	KENOAK DR	8	244
917	0022/2169-0718/2169	SYRACUSE AVE	12	184
918	0391/2169-0461/2169	FRANCISQUITO AV	8	185
919	0009/2170-0012/2170	SYRACUSE AV	8	287
920	0034/2168-0035/2168	ALLEY	8	280
921	0035/2214-0036/2214	SANDSTONE ST	8	278
922	0039/2214-0055/2214	JOANBRIDGE ST	8	318
923	0001/2214-0293/2168	CLEARCREST DR	8	191
924	0015/2215-0016/2215	RAMONA BV	8	300
925	0064/2168-0065/2168	LOS ANGELES ST	8	235
926	0370/2168-0371/2168	CENTER ST	15	351
927	0350/2169-0675/2169	TRACY ST	8	65
928	0030/2169-0031/2169	RAMONA BLVD	8	301
929	0205/2215-0209/2215	PACIFIC AV	8	23
930	0329/2215-0331/2215	GARVEY AV	8	130
931	0100/2170-0101/2170	LEDFORD ST	8	291
932	0101/2170-0103/2170	LEDFORD ST	8	110
933	0423/2214-0426/2214	CLARK ST	8	166
935	0109/2169-0125/2169	N/A	8	312
936	0232/2168-0233/2168	KENMORE AV	8	202
937	0494/2169-0495/2169	FRAZIER ST	10	330
938	0401/2169-0402/2169	EARL AV	8	231
939	0006/2169-0007/2169	PATRITTI AVE	8	299
940	0129/2215-0130/2215	REXWOOD ST	8	167
941	0536/2214-0537/2214	ELTON ST	8	308
942	0218/2214-0219/2214	STEWART AV	12	266
943	0493/2214-0494/2214	NUBIA ST	10	341
944	0040/2215-0044/2215	BALDWIN PARK BV	8	270
945	0341/2215-0342/2215	BIG DALTON AV	8	347
946	0020/2168-0021/2168	JERRY AV	8	268
947	0288/2169-0290/2169	DART ST	8	107
948	0237/2215-0238/2215	STICHMAN AV	8	104
949	0404/2169-0406/2169	MAINE AVE	8	310
950	0452/2169-0453/2169	GARVEY AVE	8	350
951	0372/2214-0373/2214	MAINE AV	12	55
952	0290/2168-0291/2168	CUTLER ST	8	150
953	0184/2215-0187/2215	PACIFIC AV	15	286
954	0050/2168-0051/2168	WALNUT ST	12	330
955	0489/2169-0490/2169	FRAZIER ST	10	356
956	0275/2215-0276/2215	BIG DALTON AV	8	301
957	0345/2215-0346/2215	BIG DALTON AV	8	198
958	0365/2215-0367/2215	ROOT ST	8	229
959	0028/2215-0032/2215	SUSQUEHANNA AV	8	207
960	0172/2214-0173/2214	LARRY AV	8	121
961	0338/2214-0339/2214	OLIVE ST	12	318
962	0140/2169-0141/2169	ATHOL ST	10	215
963	0282/2215-0298/2215	CHANNING ST	8	290
965	0245/2215-0246/2215	BIG DALTON AV	8	271
966	0201/2170-0202/2170	N/A	10	206

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
967	0537/2214-0538/2214	ELTON ST	8	310
968	0211/2214-0212/2214	LOS ANGELES ST	8	115
969	0380/2214-0383/2214	DOWNING AV	8	228
970	0472/2214-0474/2214	EAST RAMONA BV	8	197
971	0031/2214-0034/2214	LA RICA AV	8	257
972	0591/2214-0593/2214	SHARONS WY	8	210
973	0346/2169-0706/2169	N/A	8	69
974	0622/2169-0631/2169	ALLEY	8	330
975	0047/2169-0106/2169	ROYSTON ST	8	283
976	0003/2170-0005/2170	DALEWOOD ST	8	280
977	N/A	N/A	8	85
978	N/A	N/A	8	66
979	0160/2214-0178/2214	OHIO ST	8	247
980	0291/2168-0292/2168	CUTLER ST	8	108
981	0326/2214-0342/2214	BLEECKER AV	10	355
982	0126/2214-0127/2214	LA RICA AV	8	287
983	0224/2214-0225/2214	BENHAM AV	8	352
984	0670/2169-0671/2169	N/A	8	236
985	0052/2168-0053/2168	N/A	8	98
986	0707/2169-0708/2169	N/A	8	132
987	0438/2169-0439/2169	BALDWIN PARK BV	12	253
988	0202/2170-0203/2170	N/A	10	310
989	0241/2216-0421/2216	WHITESSELL ST	8	151
990	0319/2168-0320/2168	COMMERCE DR	8	364
991	0175/2168-0225/2168	ROCKENBACH ST	8	275
992	0375/2168-0376/2168	CENTER ST	15	329
993	0174/2169-0176/2169	N/A	8	237
994	0288/2169-0289/2169	HAMMOND ST	8	130
995	0035/2169-0036/2169	ST. JAMES PL	8	225
996	0141/2215-0158/2215	GARVEY AV	8	125
997	0213/2215-0216/2215	N/A	8	176
998	0333/2215-0334/2215	GARVEY AV	8	190
999	0054/2215-0055/2215	MAINE AV	8	276
1000	0119/2215-0136/2215	STICHMAN AV	8	298
1001	0076/2169-0078/2169	N/A	15	54
1002	0128/2170-0129/2170	JUDITH ST	8	132
1003	0422/2216-0423/2216	FRANCISQUITO AV	8	280
1004	0730/2169-0152/2169	FRANCISQUITO AV	10	195
1005	0188/2214-0209/2214	LANDIS AV	8	214
1006	0031/2168-0032/2168	LOS ANGELES ST	8	333
1007	0477/2169-0479/2169	RALL AVE	8	357
1008	0055/2215-0056/2215	MAINE AV	8	276
1009	0105/2170-0106/2170	N/A	8	110
1010	0219/2214-0220/2214	STEWART AV	12	264
1011	0296/2214-0297/2214	CALIFORNIA AV	8	321
1012	0573/2214-0574/2214	ELTON AV	8	350
1013	0073/2168-0074/2168	N/A	8	193
1014	0287/2168-0404/2168	OHIO ST	8	156
1015	0353/2169-0354/2169	N/A	8	326
1016	0331/2169-0333/2169	N/A	8	99
1017	0244/2169-0245/2169	ATHOL ST	12	231
1018	0010/2169-0011/2169	PATRITTI AVE	8	331
1019	0179/2214-0180/2214	OHIO ST	8	247
1020	0427/2214-0431/2214	CLARK ST	8	361
1021	0275/2214-0276/2214	MORGAN ST	8	325
1022	0704/2169-0705/2169	N/A	8	343

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1023	0282/2215-0284/2215	MILLBURY AV	8	93
1024	0387/2214-0388/2214	PHELAN AV	8	275
1025	0405/2214-0411/2214	LOS ANGELES ST	8	235
1026	0030/2168-0031/2168	LOS ANGELES ST	8	110
1027	0048/2215-0049/2215	MAIN AV	8	308
1028	0187/2168-0326/2168	CENTER ST	15	21
1029	0451/2169-0452/2169	GARVEY AVE	8	284
1030	0153/2215-0157/2215	N/A	15	66
1031	0197/2214-0198/2214	LOS ANGELES ST	8	324
1032	0458/2214-0459/2214	BOGART AV	8	267
1033	0575/2169-0576/2169	CENTER ST	8	269
1034	0533/2214-0534/2214	BOREL ST	8	308
1035	0271/2168-0272/2168	BRESEE AV	8	244
1036	0356/2168-0357/2168	LITTLE JOHN ST	10	314
1037	0471/2169-TRNK/2169	FRAZIER ST	10	48
1038	0191/2169-0192/2169	LOMA LN	8	90
1039	0481/2169-0482/2169	REXWOOD AV	8	100
1040	0265/2215-0266/2215	STICHMAN AV	8	215
1041	0272/2215-0273/2215	SIERRA WY	8	266
1042	0248/2215-0254/2215	BIG DALTON AV	8	297
1043	0366/2169-0654/2169	LEORITA ST	8	95
1044	0116/2170-0362/2169	FRAZIER ST	10	202
1045	0129/2170-0130/2170	JUDITH ST	8	100
1046	0433/2214-0434/2214	DOWNING AV	8	224
1047	0694/2214-0695/2214	N/A	8	194
1048	0219/2168-0220/2168	MONTEREY AV	8	254
1049	0256/2169-0257/2169	ATHOL ST	12	302
1050	0055/2169-0091/2169	CHELSEFIELD ST	8	242
1051	0594/2169-0045/2168	WALNUT ST	12	300
1052	0311/2215-0312/2215	ALLEY	8	200
1053	0155/2214-0156/2214	BALDWIN PARK AV	12	327
1054	0011/2168-0013/2168	BRESEE AV	8	285
1055	0507/2214-0508/2214	CALMVIEW AV	8	142
1056	0440/2214-0443/2214	MAINE AV	15	180
1057	0590/2214-0591/2214	KENOAK DR	8	256
1058	0207/2215-LH/2215	HOLLY AV	8	215
1060	0014/2170-TRNK/2170	FARNELL ST	8	260
1061	0003/2215-0004/2215	N/A	8	92
1062	0025/2169-0051/2169	FINCHLEY ST	8	270
1063	0254/2215-0260/2215	BIG DALTON AV	8	350
1064	0346/2214-0358/2214	MAINE AV	12	260
1065	0157/2214-0158/2214	BALDWIN PARK AV	12	325
1066	0145/2214-0146/2214	ROCKENBACH ST	8	285
1067	0081/2168-0082/2168	CENTER ST	8	245
1068	0239/2169-0240/2169	MANGUM ST	8	185
1070	0015/2169-0016/2169	SYRACUSE AV	8	307
1071	0149/2214-0193/2214	BENHAM AV	8	330
1072	0601/2214-0602/2214	NUBIA ST	10	242
1073	0068/2214-0069/2214	WIMMER AV	8	340
1074	0306/2215-0308/2215	PUENTE AV	12	78
1075	0170/2215-0171/2215	HALINOR AV	8	214
1076	0407/2169-0408/2169	MAINE AVE	8	311
1077	0523/2214-0524/2214	PARK AV	8	299
1078	0064/2214-0065/2214	NUBIA ST	8	87
1079	0083/2214-0085/2214	SCHOOL ST	8	242
1080	0519/2214-0520/2214	LANTE ST	8	301

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1081	0606/2169-0607/2169	N/A	8	71
1082	0002/2169-0003/2169	PATRITTI AVE	8	278
1083	0134/2168-0349/2168	LITTLEJOHN ST	12	95
1084	0066/2168-0069/2168	CENTER ST	8	237
1085	0371/2168-0372/2168	CENTER ST	15	306
1086	0304/2169-0307/2169	TRACY ST	8	33
1087	0525/2169-0526/2169	RAMONA BLVD	8	292
1088	0250/2214-0254/2214	CLARK ST	8	279
1089	0098/2214-0099/2214	OLIVE ST	8	240
1090	0286/2168-0288/2168	CUTLER AV	8	305
1091	0247/2214-0253/2214	BALDWIN PARK BV	8	60
1092	0365/2168-0366/2168	BROOKS DR	8	275
1093	0362/2168-0363/2168	BROOKS DR	8	93
1094	0545/2169-0547/2169	RAMONA PKWY	8	120
1095	0484/2169-0485/2169	REXWOOD AV	8	276
1096	0292/2169-0293/2169	ROBINETTE AV	8	234
1097	0584/2169-0585/2169	ELWYN DR	8	341
1098	0482/2169-0483/2169	REXWOOD AV	8	208
1099	0102/2215-0412/2169	PADDY LN	8	320
1100	0047/2214-0048/2214	CALAIS ST	8	273
1101	0178/2215-0179/2215	LORAY PL	8	287
1102	0227/2169-0228/2169	TRACY ST	8	251
1103	0047/2168-0048/2168	PALM AV	8	251
1104	0051/2168-0052/2168	WALNUT ST	12	94
1105	0156/2169-0667/2169	CORAK ST	8	245
1106	0181/2214-0676/2214	LAURENS AV	8	182
1107	0337/2214-0338/2214	OLIVE ST	12	325
1108	0400/2168-0401/2168	LIVE OAK AV	10	232
1109	0359/2215-0360/2215	PUENTE AV	8	172
1111	0229/2169-0230/2169	NOLINA ST	8	232
1112	0213/2168-0214/2168	OLIVE ST	12	335
1113	0315/2169-0316/2169	WACO ST	8	325
1114	0061/2169-0062/2169	WALTHAM ST	8	269
1115	0342/2214-0343/2214	OLIVE ST	12	50
1116	0363/2214-0364/2214	ROCKENBACH ST	8	246
1117	0010/2168-0030/2168	LOS ANGELES ST	8	218
1118	0012/2214-0284/2168	N/A	8	310
1119	0495/2214-0497/2214	ELTON ST	8	334
1120	0465/2214-0466/2214	RAILROAD AV	8	227
1121	0020/2215-0577/2214	PUENTE AV	8	164
1122	0708/2169-0711/2169	N/A	8	99
1123	0303/2169-0675/2169	TRACY ST	8	215
1124	0419/2216-0420/2216	FRANCISQUITO AV	8	128
1125	0007/2214-0008/2214	STEWART AV	8	238
1126	0271/2214-0272/2214	N/A	8	256
1127	0252/2214-0686/2214	PALM AV	8	240
1128	0516/2169-0517/2169	ATHOL ST	8	331
1129	0238/2169-0239/2169	MANGUM ST	8	211
1130	0394/2215-0395/2215	HALINOR LN	8	170
1131	0156/2215-TRNK/2215	BIG DALTON AV	8	11
1132	0294/2168-0296/2168	CLEARCREST DR	8	254
1133	0280/2168-0281/2168	MASLINE ST	8	249
1134	0312/2214-0313/2214	BOGART AV	8	322
1135	0130/2214-0133/2214	EDRA AV	8	231
1136	0640/2169-0650/2169	BRESEE AVE	8	198
1137	0565/2169-0567/2169	VALLE VISTA AV	8	213

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1138	0216/2215-0217/2215	N/A	8	217
1139	0259/2215-0280/2215	MILLBURY AV	8	300
1140	0627/2214-0628/2214	AZUSA CANYON RD	8	340
1141	0105/2214-0106/2214	OLIVE ST	8	356
1142	0394/2168-0395/2168	COMMERCE DR	15	349
1143	0158/2169-0159/2169	EARL AVE	8	172
1144	0145/2169-0148/2169	ATHOL ST	10	250
1145	0097/2169-0098/2169	FINCHLEY ST	8	150
1146	0657/2169-0658/2169	N/A	8	325
1147	0278/2169-0361/2169	GARVEY AVE	12	253
1148	0243/2214-0244/2214	BALDWIN PARK BV	15	340
1149	0585/2214-0586/2214	ADAMS DR	8	210
1150	0049/2215-0050/2215	MAIN AV	8	322
1151	0173/2168-0174/2168	CENTER ST	15	241
1152	0372/2168-0373/2168	CENTER ST	15	287
1153	0178/2169-0179/2169	ATHOL ST	8	275
1154	0586/2169-0587/2169	FILHURST AV	8	195
1155	0234/2215-TRNK/2215	PACIFIC AV	8	41
1156	0314/2214-0339/2214	BOGART AV	8	321
1157	0012/2214-0703/2214	N/A	8	31
1158	0014/2213-0015/2213	ARROW HWY	8	353
1159	0334/2214-0335/2214	BLEECKER AV	8	278
1160	0596/2214-0599/2214	SANDSTONE ST	8	216
1161	0108/2168-0109/2168	PALM AV	8	30
1162	0467/2169-0468/2169	FOSTER AVE	8	350
1165	0298/2214-0299/2214	BALDWIN AV	8	323
1166	0011/2214-0092/2214	STEWART ST	8	352
1167	0010/2214-0011/2214	STEWART ST	8	349
1168	0189/2215-0473/2214	RAILROAD AV	8	390
1169	0389/2168-0390/2168	COMMERCE DR	15	40
1170	0540/2169-0543/2169	N/A	8	193
1171	0435/2169-0436/2169	BALDWIN PARK BV	12	260
1172	0186/2214-0187/2214	LANDIS AV	8	291
1173	0281/2168-0308/2168	JERRY AV	8	254
1174	0029/2214-0030/2214	JOANBRIDGE ST	8	298
1175	0082/2168-0084/2168	CENTER ST	8	177
1176	0094/2215-0096/2215	FEATHER AV	8	220
1177	0165/2215-TRNK/2215	PUENTE AV	8	200
1178	0021/2170-0097/2170	LEDFORD ST	10	263
1179	0006/2215-TRNK/2215	RAMONA BV	8	258
1180	0095/2169-0097/2169	FINCHLEY ST	8	125
1181	0138/2215-0139/2215	BIG DALTON AV	15	351
1182	0258/2215-0259/2215	MILLBURY AV	8	280
1183	0038/2214-0042/2214	NUBIA ST	8	341
1184	0268/2214-0269/2214	PALM AV	8	358
1185	0450/2214-0452/2214	MAINE AV	8	350
1186	0166/2168-0167/2168	BENBOW ST	8	165
1187	0234/2168-0235/2168	KENMORE AV	8	256
1188	0377/2168-0378/2168	CENTER ST	15	313
1189	0343/2169-TRNK/2169	FRANCISQUITO AV	8	350
1190	0009/2168-0010/2168	LOS ANGELES ST	8	158
1191	0485/2214-0554/2214	EAST RAMONA BV	8	289
1192	0221/2214-0222/2214	STEWART AV	12	353
1193	0150/2169-0151/2169	FRANCISQUITO AV	10	210
1194	0189/2168-0199/2168	OLIVE ST	8	170
1195	0706/2169-0707/2169	N/A	8	62

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1196	0345/2169-0346/2169	FRANCISQUITO AV	8	68
1197	0582/2169-0336/2168	CENTER ST	8	63
1198	0348/2214-0349/2214	CAVETTE PL	8	272
1199	0006/2168-0007/2168	CUTLER AV	8	288
1200	0002/2214-0003/2214	STEWART AV	8	160
1201	0222/2168-0223/2168	MONTEREY AV	8	39
1202	0242/2169-0721/2169	FAIRGROVE ST	8	290
1203	0174/2215-SS/2215	ARDILLA AV	8	318
1204	0124/2215-0125/2215	N/A	8	286
1205	0393/2214-0394/2214	PHELAN AV	8	296
1206	0426/2214-0427/2214	CLARK ST	8	298
1207	0236/2214-0700/2214	LA RICA AV	8	270
1208	0062/2214-0063/2214	LANDIS AV	8	274
1209	0487/2214-0488/2214	HEINTZ ST	8	227
1210	0165/2168-0166/2168	BENBOW ST	8	85
1211	0457/2169-0459/2169	MAINE AVE	8	340
1212	0290/2169-0291/2169	HAMMOND ST	8	284
1213	0028/2169-0029/2169	SYRACUSE AVE	12	300
1214	0588/2169-0589/2169	LUBICAN ST	8	280
1215	0594/2214-0601/2214	NUBIA ST	10	245
1216	0357/2168-0363/2168	LITTLE JOHN ST	10	320
1217	0022/2169-0061/2169	WALTHAM ST	8	270
1218	0371/2215-0375/2215	CHETNEY DR	8	235
1219	0010/2170-0011/2170	HENSEL ST	8	336
1220	0380/2214-0381/2214	ESTELLA ST	8	58
1221	0518/2214-0519/2214	LANTE ST	8	230
1222	0478/2214-0479/2214	BADILLO ST	8	240
1223	0006/2215-0007/2215	RAMONA BV	8	258
1224	0530/2169-0531/2169	N/A	8	96
1225	0044/2168-0595/2169	KENMORE AV	8	188
1226	0020/2170-0021/2170	LEDFORD ST	10	260
1227	0360/2214-0361/2214	HALLWOOD DR	8	282
1228	0427/2214-0428/2214	BOGART AV	8	211
1229	0244/2214-0245/2214	BALDWIN PARK BV	15	343
1230	0295/2214-0296/2214	CALIFORNIA AV	8	318
1231	0669/2169-0670/2169	N/A	8	93
1232	0299/2169-0300/2169	WACO ST	8	308
1233	0160/2215-0161/2215	GARVEY AV	8	300
1234	0324/2215-0328/2215	MERCED AV	12	353
1235	0299/2215-0300/2215	VAN WIG AV	8	240
1236	0436/2169-0437/2169	BALDWIN PARK BV	12	260
1237	0362/2169-0363/2169	DALEWOOD ST	10	346
1238	0354/2214-0355/2214	N/A	8	331
1239	0405/2168-0406/2168	N/A	8	193
1240	0312/2169-0683/2169	N/A	8	141
1241	0441/2169-0442/2169	PARK BV	12	341
1242	0056/2169-0057/2169	CHELSEFIELD ST	8	269
1243	0593/2169-0594/2169	WALNUT ST	12	300
1244	0159/2215-0160/2215	GARVEY AV	8	300
1245	0024/2215-0470/2215	BRESEE AV	8	38
1246	0206/2214-0243/2214	BALDWIN PARK AV	15	341
1247	0279/2168-0280/2168	MASLINE ST	8	250
1248	0305/2214-0306/2214	MAINE AV	10	325
1249	0522/2214-0594/2214	NUBIA ST	10	228
1250	0037/2214-0043/2214	LA RICA AV	10	267
1251	0673/2169-0674/2169	N/A	8	307

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1252	0212/2169-0215/2169	FRAZIER ST	8	348
1253	0041/2168-0322/2168	MERCED AV	10	185
1254	0355/2169-0356/2169	GARVEY AVE	12	295
1255	0088/2215-0093/2215	MOSSBERG ST	8	219
1257	0410/2215-0414/2215	CHEVALIER AV	8	262
1258	0134/2215-0135/2215	STICHMAN AV	8	118
1259	0020/2214-0021/2214	BENHAM AV	8	157
1260	0092/2168-0093/2168	GRACE AV	8	284
1261	0444/2169-0445/2169	BALDWIN PARK BV	12	347
1262	0286/2169-0645/2169	DART ST	8	174
1263	0414/2215-0415/2215	ARDILLA AV	8	150
1264	0147/2215-0148/2215	BIG DALTON AV	15	255
1265	0100/2215-TRNK/2215	MERCED AV	8	322
1266	0526/2214-0527/2214	ANADA ST	8	165
1267	0498/2214-0499/2214	ELTON ST	8	302
1268	0274/2214-0275/2214	MORGAN ST	8	333
1269	0016/2168-0017/2168	BRESEE AV	8	347
1270	0559/2169-0560/2169	HARLAN AV	18	303
1271	0107/2214-0153/2214	BALDWIN PARK AV	12	337
1272	0369/2214-0370/2214	BOGART AV	8	229
1273	0027/2168-0028/2168	JERRY AV	8	309
1274	0313/2214-0314/2214	BOGART AV	8	326
1275	0287/2215-0288/2215	MILLBURY AV	8	270
1277	0673/2214-0674/2214	N/A	8	215
1278	0013/2213-0014/2213	ARROW HWY	8	356
1279	0005/2214-0014/2214	CRAGMONT ST	8	363
1280	0226/2169-0227/2169	TRACY ST	8	200
1281	0152/2168-0160/2168	HARLAN AV	8	297
1282	0189/2169-0190/2169	FRANCISQUITO AV	8	12
1283	0129/2169-0130/2169	SN GBRL R PKY	8	270
1284	0243/2169-0248/2169	FAIRGROVE ST	8	242
1285	0085/2169-0086/2169	WALTHAM ST	8	236
1286	0104/2215-0106/2215	DURNES ST	8	250
1287	0173/2214-0174/2214	BELLBROOK ST	8	255
1288	0392/2214-0393/2214	PHELAN AV	8	295
1289	0311/2214-0312/2214	BOGART AV	8	323
1290	0277/2168-0324/2168	N/A	8	21
1291	0277/2214-0278/2214	CRICKETT LN	8	188
1292	0112/2169-0113/2169	N/A	8	120
1293	0064/2168-0329/2168	LOS ANGELES ST	8	35
1294	0367/2168-0368/2168	CENTER ST	15	345
1295	0386/2215-0387/2215	PUENTE AV	10	350
1296	0364/2214-0365/2214	ROCKENBACH ST	8	265
1297	0354/2168-0408/2168	LITTLE JOHN ST	12	115
1298	0515/2169-0715/2169	N/A	8	310
1299	0618/2169-0619/2169	RAMONA PKWY	8	92
1300	0255/2215-0258/2215	STOCKDALE ST	8	208
1301	0495/2214-0496/2214	SANDSTONE ST	8	290
1302	0339/2215-0340/2215	BIG DALTON AV	8	349
1303	0134/2168-0348/2168	N/A	12	162
1304	0509/2169-0510/2169	MONTEREY AVE	8	325
1305	0207/2170-0208/2170	N/A	8	230
1306	0528/2214-0529/2214	STANCROFT ST	8	317
1307	0161/2214-0163/2214	BALDWIN PARK AV	8	274
1308	0004/2214-0005/2214	STEWART AV	8	294
1309	0559/2214-0560/2214	AUCTION AV	8	238

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1310	0623/2214-0624/2214	AZUSA CANYON RD	8	290
1311	0005/2215-0242/2214	LA RICA AV	8	309
1312	0637/2169-0638/2169	N/A	8	330
1313	0151/2215-TRNK/2215	N/A	8	39
1314	0009/2170-0010/2170	HENSEL ST	8	123
1315	0300/2214-0301/2214	BALDWIN AV	8	316
1316	0120/2214-0121/2214	BROOKPORT ST	8	184
1317	0508/2214-0509/2214	CALMVIEW AV	8	235
1318	0386/2214-0438/2214	MAINE AV	15	203
1319	0067/2168-0068/2168	LOS ANGELES ST	8	260
1320	0063/2169-0085/2169	WALTHAM ST	8	229
1321	0083/2215-0084/2215	AHERN DR	10	250
1322	0340/2214-0341/2214	OLIVE ST	12	335
1323	0285/2168-0286/2168	CUTLER AV	8	300
1324	0288/2214-0289/2214	JOANBRIDGE ST	8	280
1325	0625/2214-0626/2214	AZUSA CANYON RD	8	297
1326	0042/2169-0107/2169	SALISBURY ST	8	270
1327	0193/2168-0194/2168	N/A	12	350
1328	0381/2168-0382/2168	CENTER ST	15	318
1329	0305/2169-0675/2169	N/A	8	290
1330	0208/2169-0209/2169	EARL AVE	8	157
1331	0138/2169-0139/2169	WACO ST	8	265
1332	0027/2215-0028/2215	BALDWIN PARK BV	8	272
1333	0599/2169-0601/2169	LUBICAN ST	8	305
1334	0360/2215-0361/2215	PUENTE AV	8	138
1335	0513/2169-0515/2169	GRACE AV	8	96
1336	0202/2169-0208/2169	EARL AVE	8	243
1337	0295/2215-0296/2215	VAN WIG AV	8	271
1339	0361/2214-0362/2214	HALLWOOD DR	8	301
1340	0195/2214-0008/2168	LOS ANGELES ST	8	188
1341	0283/2168-0284/2168	CUTLER AV	8	286
1342	0006/2214-0007/2214	STEWART AV	8	249
1343	0466/2214-0467/2214	RAILROAD AV	8	219
1344	0554/2214-0558/2214	EAST RAMONA BV	8	106
1345	0560/2169-0561/2169	HARLAN AV	18	242
1346	0142/2215-0145/2215	N/A	15	203
1347	0458/2215-0459/2215	N/A	8	242
1348	0413/2169-0414/2169	PADDY LN	8	253
1349	0369/2169-0370/2169	DALEWOOD ST	8	152
1350	0236/2214-0237/2214	CLARK ST	8	260
1351	0428/2214-0429/2214	BOGART AV	8	210
1352	0158/2168-0159/2168	ROCKENBACH ST	8	127
1353	0303/2169-0353/2169	TRACY ST	8	54
1354	0281/2215-0282/2215	MILLBURY AV	8	275
1355	0253/2168-0254/2168	JERRY AV	8	270
1356	0358/2214-0359/2214	MAINE AV	12	280
1357	0514/2214-0515/2214	CALMVIEW AV	8	123
1358	0056/2214-0057/2214	JOANBRIDGE ST	8	322
1359	0253/2214-0273/2214	MORGAN ST	8	282
1360	0571/2214-0572/2214	N/A	8	208
1361	0430/2214-0685/2214	N/A	8	300
1362	0215/2169-0216/2169	FRAZIER ST	8	319
1363	0364/2168-0365/2168	BROOKS DR	8	203
1364	0241/2169-0266/2169	MANGUM ST	8	315
1365	0233/2169-0234/2169	WACO ST	8	200
1366	0033/2169-0034/2169	BARNES AVE	8	326

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1367	0270/2169-0271/2169	GARVEY AVE	8	360
1368	0275/2168-0276/2168	CUTLER AV	8	257
1369	0151/2214-0194/2214	LA RICA AV	8	282
1370	0026/2168-0027/2168	JERRY AV	8	285
1371	0668/2214-0669/2214	PALMROSE ST	8	270
1372	0697/2214-0698/2214	N/A	8	230
1373	0334/2168-0346/2168	MERCED AV	10	131
1374	0487/2169-0488/2169	ROCKWAY DR	8	220
1375	0212/2169-0213/2169	FRAZIER ST	8	321
1376	0448/2169-0449/2169	N/A	8	185
1377	0121/2215-TRNK/2215	DURNESS ST	8	30
1378	0262/2214-0263/2214	N/A	8	76
1379	0093/2214-0094/2214	OLIVE ST	10	283
1380	0461/2214-0483/2214	EAST RAMONA BV	8	73
1381	0028/2214-0029/2214	JOANBRIDGE ST	8	271
1382	0016/2215-0017/2215	RAMONA BV	8	300
1383	0286/2169-0288/2169	DART ST	8	196
1384	0029/2169-0030/2169	SYRACUSE AVE	12	263
1385	0400/2215-0404/2215	HOWELLSHURST DR	8	343
1386	0405/2215-0406/2215	WILLOW AV	8	198
1387	0099/2215-TRNK/2215	MERCED AV	12	206
1388	0359/2214-0360/2214	MAINE AV	12	265
1389	0390/2214-0391/2214	PHELAN AV	8	281
1390	0185/2214-0186/2214	LANDIS AV	8	208
1391	0151/2214-0152/2214	BELGATE ST	8	280
1392	0402/2214-0418/2214	MAINE AV	15	31
1393	0486/2214-0492/2214	NUBIA ST	10	288
1394	0440/2214-0441/2214	INA ST	8	305
1395	0600/2169-0338/2168	JERRY AV	8	342
1396	0149/2169-0182/2169	FRANCISQUITO AV	8	258
1397	0388/2215-0389/2215	PACIFIC AV	8	344
1398	0411/2169-0412/2169	DURNESS ST	8	191
1399	0425/2169-0426/2169	ROCKWAY DR	8	107
1400	0025/2215-0470/2215	BRESEE AV	8	298
1401	0121/2215-0136/2215	DURNESS ST	8	291
1402	0381/2169-0382/2169	WHITESSELL ST	10	243
1403	0151/2214-0682/2214	N/A	8	172
1404	0163/2214-0165/2214	BALDWIN PARK AV	8	274
1405	0011/2168-0012/2168	ALLEY	8	246
1406	0099/2214-0100/2214	OLIVE ST	8	296
1407	0333/2214-0334/2214	BLEECKER AV	8	273
1408	0120/2168-0121/2168	LOS ANGELES ST	15	295
1409	0047/2168-0050/2168	WALNUT ST	12	349
1410	0088/2168-0089/2168	MONTEREY AV	8	305
1411	0690/2169-0691/2169	N/A	8	270
1412	0620/2169-TRUNK/2169	RAMONA PKWY	8	22
1413	0126/2169-0138/2169	WACO ST	8	256
1414	0247/2169-0248/2169	N/A	8	250
1415	0272/2168-0275/2168	BELGATE ST	8	318
1416	0256/2214-0257/2214	LANDIS AV	8	268
1417	0100/2214-0101/2214	OLIVE ST	8	293
1418	0034/2214-0037/2214	LA RICA AV	8	272
1419	0509/2214-0510/2214	CALMVIEW AV	8	275
1420	0709/2169-0712/2169	N/A	8	99
1421	0103/2169-0104/2169	WACO ST	8	114
1422	0302/2215-0393/2215	PUENTE AV	10	141

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1423	0658/2169-0659/2169	N/A	8	268
1424	0123/2215-0124/2215	N/A	8	239
1425	0079/2169-0080/2169	N/A	15	298
1426	0112/2170-0113/2170	AMAR RD	8	327
1427	0111/2214-0264/2168	BELLBROOK ST	8	157
1428	0165/2214-0166/2214	DEMBLON ST	8	200
1429	0335/2214-0336/2214	BLEECKER AV	8	293
1430	0193/2215-0194/2215	CENTRAL AV	8	188
1431	0200/2168-0201/2168	OLIVE ST	8	348
1432	0204/2168-0211/2168	MERCED AV	8	50
1433	0312/2169-0338/2169	ROBINETTE AVE	8	257
1434	0490/2169-0492/2169	FRAZIER ST	10	327
1435	0472/2169-0473/2169	N/A	8	89
1436	0144/2169-0145/2169	ATHOL ST	10	309
1437	0019/2169-0020/2169	SYRACUSE AVE	15	329
1438	0398/2215-0399/2215	ARDILLA AV	8	155
1439	0375/2214-0385/2214	MAINE AV	12	112
1440	0142/2168-0143/2168	LITTLE JOHN ST	8	355
1441	0169/2168-0170/2168	ROCKENBACH ST	8	277
1442	0363/2168-0364/2168	BROOKS DR	8	62
1443	0161/2169-0162/2169	RAMONA BLVD	8	108
1444	0021/2169-0718/2169	SYRACUSE AVE	12	44
1445	0265/2169-0266/2169	MANGUM ST	8	354
1446	0479/2169-0484/2169	REXWOOD AV	8	276
1447	0285/2169-0286/2169	ROBINETTE AV	8	50
1448	0323/2169-0324/2169	N/A	8	101
1449	0081/2169-0644/2169	BESS AVE	8	271
1450	0089/2215-0090/2215	AHERN DR	10	266
1452	0638/2169-0639/2169	N/A	8	254
1453	0273/2169-0274/2169	ALLEY	12	260
1454	0154/2214-0155/2214	BALDWIN PARK AV	12	328
1455	0076/2214-0077/2214	MASLINE ST	8	380
1456	0147/2168-0148/2168	DEMBLON ST	8	256
1457	0195/2169-0198/2169	CORAK ST	8	217
1458	0158/2169-0175/2169	EARL AVE	8	285
1459	0305/2215-0306/2215	PUENTE AV	12	224
1460	0555/2214-0556/2214	PARK PL	8	231
1461	0341/2214-0673/2214	OLIVE ST	12	112
1462	0096/2214-0097/2214	OLIVE ST	8	344
1463	0520/2214-0521/2214	LANTE ST	8	301
1464	0454/2214-0455/2214	EAST RAMONA BV	8	272
1465	0483/2214-0484/2214	EAST RAMONA BV	8	321
1466	0599/2169-0600/2169	JERRY AV	8	167
1467	0188/2215-0189/2215	RAILROAD AV	8	251
1468	0226/2214-0228/2214	BENHAM AV	8	269
1469	0591/2169-TRUNK/2169	WALNUT ST	12	49
1470	0232/2169-0233/2169	MANGUM ST	8	350
1471	0034/2169-0039/2169	BARNES AVE	8	188
1472	0213/2215-0214/2215	HOLLY AV	8	329
1473	0278/2215-0462/2215	TELLURIDE DR	8	263
1474	0342/2214-0673/2214	OLIVE ST	12	231
1475	0308/2214-0309/2214	ELIZABETH AV	8	319
1476	0544/2214-0545/2214	FORTIN ST	8	312
1477	0438/2214-0439/2214	PALM AV	8	150
1478	0191/2215-TRNK/2215	CENTRAL AV	8	40
1479	0126/2168-0127/2168	HARLAN AV	8	346

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1480	0182/2168-0183/2168	NORCO AV	8	165
1481	0374/2168-0375/2168	CENTER ST	15	289
1482	0312/2169-0313/2169	TRACY ST	8	239
1483	0684/2169-0685/2169	N/A	8	184
1484	0624/2169-0625/2169	KENMORE AVE	8	323
1485	0071/2215-0072/2215	MAINE AV	8	296
1486	0368/2169-0369/2169	DALEWOOD ST	8	428
1487	0421/2216-0422/2216	VAN WIG AV	8	102
1488	0260/2168-0261/2168	BRESEE AV	8	275
1489	0192/2168-0193/2168	N/A	12	350
1490	0229/2168-0230/2168	WALNUT ST	10	333
1491	0520/2169-0521/2169	RAMONA BLVD	8	306
1492	0487/2169-TRUNK/2169	TORREY ST	8	330
1493	0193/2169-0194/2169	DOUBLEGROVE ST	8	200
1494	0447/2169-0448/2169	BALDWIN PARK BV	12	277
1495	0379/2214-0380/2214	ESTELLA ST	8	97
1496	0602/2169-0603/2169	BELGREEN ST	8	287
1497	0227/2215-0228/2215	STICHMAN AV	8	323
1498	0339/2169-0340/2169	ROBINETTE AVE	8	257
1499	0034/2168-0334/2168	MERCED AV	10	71
1500	0356/2168-0358/2168	SPRING ST	8	200
1501	0178/2169-0195/2169	CORAK ST	8	231
1502	0048/2169-0101/2169	WACO ST	8	209
1503	0006/2170-0008/2170	LEDFORD ST	8	286
1504	0008/2170-0009/2170	SYRACUSE AV	8	190
1505	0245/2168-0251/2168	N/A	8	335
1506	0296/2168-0297/2168	CLEARCREST DR	8	250
1507	0322/2214-0323/2214	MARION AV	8	308
1508	0596/2169-0041/2168	MERCED AV	10	325
1509	0351/2168-0352/2168	LITTLE JOHN ST	12	355
1510	0550/2169-0551/2169	HORNBROOK AV	8	285
1511	0532/2169-0535/2169	RAMONA BLVD	8	188
1512	0579/2169-0580/2169	ELWYN DR	8	193
1513	0682/2214-0683/2214	N/A	8	151
1514	0050/2214-0051/2214	ANADA ST	8	220
1515	0083/2214-0084/2214	LANDIS ST	8	327
1516	0043/2214-0046/2214	LA RICA AV	10	258
1517	0025/2213-0026/2213	ARROW HWY	8	322
1518	0028/2214-0031/2214	LA RICA AV	8	279
1519	0146/2168-0155/2168	HORNBROOK AV	8	294
1520	0515/2169-0516/2169	GRACE AV	8	267
1521	0083/2169-0087/2169	WESTCOTT AVE	8	335
1522	0084/2215-0086/2215	AHERN DR	10	255
1523	0169/2215-0170/2215	ALLEY	8	300
1524	0079/2215-0099/2215	MERCED AV	12	206
1525	0264/2168-0265/2168	CUTLER AV	8	289
1526	0150/2214-0151/2214	LA RICA AV	8	72
1527	0409/2214-0410/2214	DEMBLON ST	8	151
1528	0289/2214-0703/2214	JOANBRIDGE ST	8	281
1529	0010/2215-0011/2215	RAMONA BV	8	350
1530	0086/2168-0087/2168	PALM AV	8	295
1531	0387/2168-0388/2168	N/A	15	235
1532	0239/2215-0262/2215	STICHMAN AV	8	215
1534	0026/2215-0434/2169	BALDWIN PARK BV	12	280
1535	0074/2215-0410/2169	MAINE AVE	8	311
1536	0418/2216-0419/2216	FRANCISQUITO AV	8	73

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1537	0350/2214-0351/2214	CAVETTE PL	8	278
1538	0187/2214-0188/2214	LANDIS AV	8	261
1539	0432/2214-0464/2214	DOWNING AV	8	319
1540	0039/2214-0040/2214	BALDWIN PARK AV	8	332
1541	0506/2169-0655/2169	MONTEREY AV	8	152
1542	0097/2168-0098/2168	HARLAN AV	18	294
1543	0141/2168-0349/2168	LITTLE JOHN ST	8	33
1544	0297/2169-0298/2169	VIA VENADO ST	8	228
1545	0329/2169-0330/2169	N/A	8	250
1546	0091/2215-0092/2215	FEATHER AV	8	287
1547	0355/2215-0356/2215	PUENTE AV	8	322
1548	0191/2214-0211/2214	OTT PL	8	310
1549	0282/2168-0309/2168	BRESEE AV	8	300
1550	0123/2214-0124/2214	BENHAM AV	8	361
1551	0359/2168-0405/2168	N/A	8	94
1552	0393/2168-0394/2168	COMMERCE DR	15	335
1553	0339/2215-0345/2215	CENTRAL AV	8	125
1554	0106/2215-0107/2215	DURNESS ST	8	283
1555	0076/2169-0077/2169	WESTCOTT AV	21	297
1556	0002/2170-0003/2170	DALEWOOD ST	8	254
1557	0261/2214-0262/2214	N/A	8	122
1558	0003/2215-TRNK/2215	N/A	8	41
1559	0588/2214-0589/2214	KENOAK DR	8	190
1560	0684/2214-0685/2214	N/A	8	270
1561	0213/2169-0214/2169	FRAZIER ST	8	267
1562	0236/2169-0237/2169	WACO ST	8	225
1563	0220/2215-0221/2215	AHERN DR	8	303
1564	0115/2170-0116/2170	FRAZIER ST	10	171
1565	0115/2170-0116/2170	FRAZIER ST	10	27
1566	0370/2215-0371/2215	CHETNEY DR	8	267
1567	0014/2170-0017/2170	WESTCOTT AV	8	342
1568	0256/2214-0258/2214	CLARK ST	8	276
1569	0329/2169-0337/2169	N/A	8	268
1570	0045/2169-0046/2169	ROYSTON ST	8	317
1571	0036/2169-0037/2169	ST. JAMES PL	8	228
1572	0337/2215-0338/2215	GARVEY AV	8	212
1573	0050/2215-0051/2215	MAIN AV	8	315
1574	0641/2169-0642/2169	BRESEE AV	8	215
1575	0634/2169-0657/2169	MERCED AV	8	126
1576	0065/2214-0068/2214	NUBIA ST	8	316
1577	0336/2168-0337/2168	N/A	8	350
1578	0391/2168-0392/2168	COMMERCE DR	15	334
1579	0200/2169-0299/2169	LOMA LN	8	160
1580	0330/2169-0331/2169	N/A	8	111
1581	0024/2169-0057/2169	CHELSEFIELD ST	8	270
1582	0028/2215-0029/2215	BALDWIN PARK BV	8	246
1583	0256/2168-0257/2168	JERRY AV	8	303
1584	0264/2214-0266/2214	N/A	8	284
1585	0252/2214-0271/2214	BALDWIN PARK BV	8	261
1586	0066/2215-0083/2215	AHERN DR	10	256
1587	0060/2215-0061/2215	PADDY LN	8	325
1588	0628/2169-0629/2169	IDAHO ST	8	220
1589	0206/2170-0207/2170	N/A	8	250
1590	0263/2169-0264/2169	MANGUM ST	8	350
1591	0268/2168-0269/2168	BRESEE AV	8	260
1592	0251/2214-0252/2214	BALDWIN PARK BV	8	333

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1593	0101/2168-0102/2168	MORGAN ST	8	270
1594	0220/2168-0221/2168	MONTEREY AV	8	300
1595	0228/2168-0229/2168	WALNUT ST	10	323
1596	0383/2215-0384/2215	PUENTE AV	10	47
1597	0095/2214-0096/2214	OLIVE ST	8	341
1598	0358/2168-0359/2168	SPRING ST	8	195
1599	0569/2169-0570/2169	VALLE VISTA AV	8	200
1601	0524/2214-0526/2214	PARK AV	8	235
1602	0228/2214-0229/2214	BENHAM AV	8	341
1603	0553/2214-0619/2214	OLIVE ST	12	225
1604	0017/2214-C.O./2214	BENHAM AV	8	200
1605	0591/2214-0592/2214	KENOAK DR	8	106
1606	0125/2168-0126/2168	HARLAN AV	8	349
1607	0168/2168-C.O./2168	GRACE AV	8	160
1608	0186/2169-0187/2169	CORAK ST	8	240
1609	0210/2170-0411/2170	VIRGINIA AV	8	306
1610	0200/2170-0369/2169	BALDWIN PARK BV	10	344
1611	0070/2169-0072/2169	TORCH ST	15	204
1612	0268/2168-0270/2168	BRESEE AV	8	354
1613	0368/2214-0369/2214	BOGART AV	8	236
1614	0173/2214-0175/2214	LARRY AV	8	240
1615	0469/2214-0470/2214	ALDERSON AV	8	320
1616	0118/2214-0119/2214	STEWART AV	10	272
1617	0282/2214-0283/2214	LAURENS AV	8	226
1618	0565/2214-0567/2214	PUENTE AV	8	260
1619	0060/2168-0061/2168	LOS ANGELES ST	8	282
1620	0432/2214-0435/2214	CLARK ST	8	206
1621	0250/2168-0339/2168	N/A	8	205
1622	0004/2214-0451/2214	STEWART AV	8	144
1623	0055/2214-0056/2214	JOANBRIDGE ST	8	316
1624	0055/2169-0058/2169	BARNES AVE	8	280
1625	0009/2169-0010/2169	PATRITTI AVE	8	330
1626	0218/2215-0219/2215	CHANNING ST	8	15
1627	0250/2215-0251/2215	N/A	8	346
1628	0280/2169-0282/2169	ROBINETTE AV	8	67
1629	0181/2214-0182/2214	OHIO ST	8	158
1630	0304/2168-0305/2168	CALAIS ST	8	219
1631	0560/2214-0561/2214	AUCTION AV	8	247
1632	0115/2214-0116/2214	STEWART AV	8	257
1633	0082/2168-0083/2168	SHADYLAWN PL	8	220
1634	0685/2169-0686/2169	N/A	8	223
1635	0293/2169-0294/2169	WACO ST	8	55
1636	0025/2169-0026/2169	SYRACUSE AVE	12	300
1637	0570/2169-0571/2169	VALLE VISTA AV	8	182
1638	0057/2215-0070/2215	MAINE AV	8	296
1639	0079/2214-0081/2214	LANDIS ST	8	265
1640	0011/2215-0012/2215	RAMONA BV	8	350
1641	0184/2215-0185/2215	PACIFIC AV	15	221
1642	0309/2169-0311/2169	N/A	8	260
1643	0476/2169-0477/2169	ROCKWAY DR	10	210
1644	0268/2215-0269/2215	N/A	8	289
1645	0025/2215-0027/2215	BALDWIN PARK BV	8	271
1646	0143/2215-0144/2215	GARVEY AV	8	250
1647	0153/2215-0154/2215	BIG DALTON AV	8	330
1648	0329/2214-0330/2214	BLEECKER AV	10	232
1649	0133/2214-0134/2214	EDRA AV	8	173

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1650	0358/2215-0359/2215	PUENTE AV	8	148
1651	0058/2168-0059/2168	LOS ANGELES ST	8	314
1652	0020/2169-0021/2169	SYRACUSE AVE	15	329
1653	0445/2169-0446/2169	BALDWIN PARK BV	12	278
1654	0322/2169-0323/2169	N/A	8	121
1655	0127/2169-0128/2169	SN GBRL R PKY	8	280
1656	0113/2170-0114/2170	AMAR RD	8	346
1657	0370/2169-0371/2169	DALEWOOD ST	8	167
1658	0501/2214-0502/2214	GRAYHURST AV	8	300
1659	0512/2214-0513/2214	CALMVIEW AV	8	135
1660	0037/2214-0038/2214	NUBIA ST	8	350
1661	0329/2168-0330/2168	N/A	8	320
1662	0334/2168-0335/2168	N/A	8	271
1663	0036/2168-0343/2168	MERCED AV	10	139
1664	0380/2168-0381/2168	CENTER ST	15	318
1665	0067/2215-0068/2215	FEATHER AV	8	288
1666	0244/2215-0245/2215	PACIFIC AV	8	144
1667	0025/2215-0026/2215	BALDWIN PARK BV	8	377
1668	0146/2215-0147/2215	BIG DALTON AV	15	242
1669	0198/2170-0199/2170	BALDWIN PARK BV	10	344
1670	0208/2170-0209/2170	N/A	8	230
1671	0327/2168-0328/2168	N/A	8	191
1672	0399/2168-0400/2168	LIVE OAK AV	10	213
1673	0654/2170-0655/2170	BESS AV	12	327
1674	0550/2214-0551/2214	LANTE ST	8	310
1675	0484/2214-0485/2214	EAST RAMONA BV	8	328
1676	0604/2214-0605/2214	AZUSA CANYON RD	8	296
1677	0606/2169-TRUNK/2169	RAMONA PKWY	8	47
1678	0128/2168-0129/2168	FILHURST AV	8	309
1679	0170/2168-0171/2168	GRACE AV	8	188
1680	0355/2168-0356/2168	LITTLE JOHN ST	12	173
1681	0290/2215-0291/2215	MILLBURY AV	8	349
1682	0282/2215-0283/2215	CHANNING ST	8	254
1683	0358/2169-0359/2169	GARVEY AVE	12	295
1684	0420/2214-0422/2214	CLARK ST	8	50
1685	0629/2214-0630/2214	AZUSA CANYON RD	8	320
1686	0280/2214-0283/2214	ALLEY	8	335
1687	0449/2214-0453/2214	EAST RAMONA BV	8	302
1688	0340/2215-0341/2215	BIG DALTON AV	8	348
1689	0341/2169-0342/2169	REMEY AV	8	290
1690	0095/2169-0096/2169	FINCHLEY ST	8	210
1692	0563/2214-0564/2214	EAST RAMONA BV	8	329
1693	0338/2169-0339/2169	ROBINETTE AVE	8	257
1694	0214/2167-0215/2167	RIVERGRADE RD	10	200
1695	0343/2169-0344/2169	FRANCISQUITO AV	8	350
1696	0663/2169-0664/2169	PE RR R/W	8	310
1697	0207/2169-TRUNK/2169	CEDAR CIR	8	200
1698	0191/2169-0193/2169	DOUBLEGROVE ST	8	200
1699	0051/2215-0052/2215	MAIN AV	8	315
1702	0103/2170-0104/2170	FARNELL ST	8	133
1703	0380/2169-0381/2169	VIRGINIA AV	10	262
1704	0469/2169-0470/2169	FOSTER AVE	8	69
1705	0401/2169-0404/2169	MAINE AVE	8	329
1706	0454/2215-0455/2215	N/A	8	195
1707	0624/2169-0628/2169	ILLINOIS ST	8	328
1708	0142/2215-0143/2215	GARVEY AV	8	250

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1709	0349/2214-0352/2214	BOGART AV	8	164
1710	0302/2168-0303/2168	JERRY AV	8	256
1711	0084/2214-0099/2214	LANDIS ST	8	331
1712	0327/2214-0704/2214	BLEECKER AV	10	214
1713	0103/2214-0104/2214	OLIVE ST	8	375
1714	0048/2168-0049/2168	PALM AV	8	248
1715	0326/2168-0327/2168	N/A	8	256
1716	0351/2169-0704/2169	N/A	8	230
1717	0307/2169-0308/2169	TRACY ST	8	72
1718	0693/2169-0694/2169	RAMONA PKWY	15	300
1719	0172/2169-0201/2169	EARL AVE	8	230
1720	0399/2169-0400/2169	MAINE AVE	8	207
1721	0296/2169-0297/2169	VIA RANCHO AV	8	249
1722	0528/2214-0531/2214	OLIVE ST	12	172
1723	0148/2168-0149/2168	DEMBLON ST	8	220
1724	0226/2168-0227/2168	MONTEREY AV	8	75
1725	0053/2169-0098/2169	FINCHLEY ST	8	152
1726	0386/2169-0387/2169	FEATHER AV	8	166
1727	0122/2215-0123/2215	N/A	8	340
1728	0100/2170-0105/2170	FRAZIER ST	10	199
1729	0556/2214-0557/2214	PARK PL	8	247
1730	0339/2214-0340/2214	OLIVE ST	12	330
1731	0248/2214-TRNK/2215	BALDWIN PARK BV	15	350
1733	0540/2169-0541/2169	N/A	8	95
1734	0026/2169-0050/2169	AUKLAND ST	8	270
1735	0088/2215-0089/2215	AHERN DR	10	267
1736	0033/2215-0034/2215	SUSQUEHANNA AV	8	184
1737	0301/2168-0302/2168	CHILCOT ST	8	200
1738	0027/2214-0039/2214	N/A	8	328
1739	0605/2214-0606/2214	AZUSA CANYON RD	8	290
1740	0097/2168-0101/2168	HARLAN AV	18	33
1741	0203/2169-0204/2169	TORREY ST	8	219
1742	0209/2170-0210/2170	N/A	8	305
1743	0701/2169-TRNK/2169	FRANCISQUITO AV	12	43
1744	0203/2214-0204/2214	LOS ANGELES ST	8	277
1745	0189/2214-0190/2214	SCOTT PL	8	301
1746	0689/2214-0690/2214	GAYHURST AV	8	246
1747	0700/2214-0701/2214	N/A	8	200
1748	0069/2214-0070/2214	WIMMER AV	8	384
1749	0026/2214-0027/2214	N/A	8	350
1750	0197/2215-0198/2215	JEREMIE AV	8	238
1751	0225/2214-0226/2214	BENHAM AV	8	353
1752	0124/2169-0125/2169	RHODES LN	8	367
1753	0022/2169-0023/2169	SYRACUSE AVE	12	280
1754	0247/2215-0346/2215	BIG DALTON AV	8	199
1755	0014/2170-0015/2170	FARNELL ST	8	243
1756	0197/2170-0198/2170	BALDWIN PARK BV	10	343
1757	0249/2214-0250/2214	BALDWIN PARK BV	8	340
1758	0293/2168-L.H./2168	CLEARCREST DR	8	224
1759	0113/2169-0114/2169	N/A	8	125
1760	0032/2168-0060/2168	LOS ANGELES ST	8	97
1761	0547/2169-0550/2169	RAMONA PKWY	8	26
1762	0154/2169-0155/2169	ALLEY	8	250
1763	0240/2169-0241/2169	MANGUM ST	8	350
1765	0373/2215-0374/2215	NAVILLA PL	8	323
1766	0532/2214-0533/2214	BOREL ST	8	308

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1767	0158/2214-0159/2214	BALDWIN PARK AV	12	327
1768	0366/2214-0367/2214	BOGART AV	8	269
1769	0504/2214-0505/2214	GRAYHURST AV	8	300
1770	0211/2168-0212/2168	OLIVE ST	12	330
1771	0073/2168-0077/2168	CENTER ST	8	47
1772	0332/2168-0333/2168	COMMERCE CIR	8	389
1773	0350/2169-0351/2169	N/A	8	350
1774	0562/2169-TRUNK/2169	FILHURST AV	8	200
1775	0320/2169-0321/2169	N/A	8	186
1776	0093/2169-0094/2169	WESTCOTT CR	8	63
1777	0465/2215-0140/2215	BIG DALTON AV	15	277
1778	0065/2215-0066/2215	MACDEVITT ST	10	350
1779	0109/2215-CO/2215	STICHMAN AV	8	85
1780	0462/2215-0463/2215	TELLURIDE DR	8	98
1781	0363/2215-0364/2215	ROOT ST	8	350
1782	0134/2214-0135/2214	EDRA AV	8	236
1783	0161/2214-0162/2214	ROCKENBACH ST	8	200
1784	0383/2214-0384/2214	DOWNING AV	8	180
1785	0266/2214-0267/2214	N/A	8	92
1786	0564/2214-0565/2214	EAST RAMONA BV	8	353
1787	0119/2168-0120/2168	LOS ANGELES ST	15	295
1788	0216/2169-0217/2169	EMERY AV	8	24
1789	0107/2168-0108/2168	PALM AV	8	215
1790	0181/2168-0182/2168	DUNIA ST	8	267
1791	0459/2169-0460/2169	MAINE AVE	8	340
1792	0018/2215-0019/2215	N/A	8	95
1793	0264/2169-0265/2169	MANGUM ST	8	346
1794	0255/2168-0256/2168	JERRY AV	8	218
1795	0435/2214-0436/2214	CLARK ST	8	208
1796	0204/2168-0205/2168	OLIVE ST	8	330
1797	0352/2215-0353/2215	MILLBURY LN	8	89
1798	0111/2168-0124/2168	HARLAN AV	8	214
1799	0440/2169-0441/2169	BALDWIN PARK BV	12	334
1800	0396/2169-0397/2169	PADDY LN	8	62
1801	0293/2215-0324/2215	MERCED AV	12	269
1802	0367/2215-0368/2215	ROOT ST	8	219
1804	0073/2169-0074/2169	MARLINDA AV	8	50
1805	0346/2169-0347/2169	FRANCISQUITO AV	8	33
1806	0218/2214-0230/2214	CLARK ST	8	280
1807	0260/2214-0261/2214	SHADYLAWN PL	8	58
1808	0612/2214-0613/2214	LA SENA AV	8	317
1809	0022/2214-0024/2214	BENHAM AV	8	269
1810	0017/2213-0018/2213	ARROW HWY	8	366
1811	0119/2168-0146/2168	HORN BROOK AV	8	264
1812	0254/2169-0255/2169	COSBEY AVE	8	68
1813	0214/2215-0215/2215	HOLLY AV	8	330
1814	0303/2215-0304/2215	PUENTE AV	10	360
1815	0412/2215-0413/2215	MAYLAND AV	8	150
1816	0636/2169-0637/2169	MERCED AVE	8	216
1817	0486/2214-0487/2214	HEINTZ ST	8	300
1818	0022/2214-0023/2214	ANADA ST	8	305
1819	0157/2168-0158/2168	ROCKENBACH ST	8	161
1820	0021/2169-0068/2169	BESS AVE	8	136
1821	0169/2169-0170/2169	ATHOL ST	8	272
1822	0394/2215-0396/2215	HOWELLHURST DR	8	258
1823	0121/2170-0364/2169	BESS AV	10	223

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1824	0378/2169-0379/2169	VIRGINIA AV	8	223
1825	0213/2214-0249/2214	BALDWIN PARK AV	8	320
1826	0412/2214-0413/2214	DOWNING AV	8	200
1827	0698/2214-0699/2214	N/A	8	190
1828	0020/2168-0042/2168	ELWYN DR	8	290
1829	0114/2169-0115/2169	N/A	8	350
1830	0315/2168-0316/2168	COMMERCE DR	8	350
1831	0189/2168-0190/2168	CENTER ST	12	44
1832	0391/2169-0392/2169	PADDY LN	8	285
1833	0008/2169-0009/2169	PATRITTI AVE	8	299
1834	0379/2215-0380/2215	CENTRAL AV	8	283
1835	0352/2214-0353/2214	N/A	8	147
1836	0289/2168-0312/2168	NUBIA ST	8	260
1837	0294/2168-L.H./2168	CLEARCREST DR	8	75
1838	0108/2169-0671/2169	SALISBURY ST	8	11
1839	0090/2168-0091/2168	CENTER ST	8	283
1840	0056/2168-0057/2168	WALNUT ST	12	55
1841	0096/2215-0097/2215	BRESEE AV	8	95
1842	0506/2214-0507/2214	CALMVIEW AV	8	274
1843	0223/2169-0224/2169	FRAZIER ST	8	290
1844	0177/2168-0178/2168	CENTER ST	15	320
1845	0304/2169-0675/2169	TRACY ST	8	125
1846	0517/2169-TRUNK/2169	ATHOL ST	8	330
1847	0477/2169-0478/2169	ROCKWAY DR	10	347
1848	0267/2215-TRNK/2215	CLOVERSIDE ST	8	331
1849	0108/2170-0109/2170	AMAR RD	8	331
1850	0307/2214-0308/2214	ELIZABETH AV	8	318
1851	0005/2215-0451/2215	LA RICA AV	8	119
1852	0457/2214-0458/2214	BOGART AV	8	267
1853	0344/2215-0576/2214	BIG DALTON AV	8	213
1854	0038/2168-0039/2168	MERCED AV	10	295
1855	0681/2169-0683/2169	N/A	8	70
1856	0233/2169-0238/2169	MANGUM ST	8	211
1857	0111/2215-0112/2215	JEANETTE LN	8	297
1858	0655/2170-0656/2170	BESS AV	12	312
1859	0298/2168-0299/2168	NUBIA ST	8	300
1860	0568/2214-0569/2214	PUENTE AV	8	310
1861	0021/2168-0022/2168	JERRY AV	8	272
1862	0559/2169-0564/2169	VALLE VISTA AV	8	350
1863	0129/2215-0430/2169	REXWOOD AVE	8	337
1864	0261/2168-0262/2168	BRESEE AV	8	283
1865	0008/2168-0009/2168	LOS ANGELES ST	8	168
1866	0312/2168-0313/2168	NUBIA ST	8	245
1867	0324/2214-0672/2214	DOWNING AV	8	240
1868	0179/2168-0180/2168	HARLAN AV	8	80
1869	0443/2169-0660/2169	PARK BV	12	179
1870	0466/2169-0478/2169	SPARLAND ST	10	326
1871	0298/2214-0303/2214	MAINE AV	10	280
1872	0121/2168-0122/2168	LOS ANGELES ST	15	295
1873	0223/2168-0224/2168	MONTEREY AV	8	102
1874	0245/2169-0246/2169	ATHOL ST	12	262
1875	0249/2169-0250/2169	FAIRGROVE ST	8	260
1876	0063/2169-0064/2169	BARNES AVE	8	231
1877	0026/2169-0027/2169	SYRACUSE AVE	12	300
1878	0086/2215-0088/2215	AHERN DR	10	254
1879	0077/2215-0078/2215	MERCED AV	12	277

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1880	0052/2215-0053/2215	MAIN AV	8	31
1881	0332/2215-0333/2215	GARVEY AV	8	155
1882	0013/2170-TRNK/2170	FARNELL ST	8	275
1883	0680/2214-0681/2214	N/A	8	110
1884	0497/2214-0498/2214	ELTON ST	8	301
1886	0268/2214-0686/2214	PALM AV	8	123
1887	0024/2169-0025/2169	SYRACUSE AVE	12	300
1888	0596/2169-0597/2169	MERCED ST	10	325
1890	0130/2215-0450/2215	REXWOOD ST	8	315
1891	0420/2214-0421/2214	CLARK ST	8	271
1892	0695/2214-0696/2214	N/A	8	244
1893	0085/2214-0086/2214	SCHOOL ST	8	243
1894	0620/2214-0621/2214	OLIVE ST	12	230
1895	0007/2215-0281/2214	EAST RAMONA BV	8	258
1896	0102/2214-0103/2214	OLIVE ST	8	22
1897	0012/2213-0013/2213	ARROW HWY	8	334
1898	0283/2214-0285/2214	ALLEY	8	164
1899	0187/2215-0206/2215	PACIFIC AV	15	171
1900	0002/2168-0003/2168	CUTLER AV	8	330
1901	0141/2168-0142/2168	LITTLE JOHN ST	8	355
1902	0187/2168-0188/2168	CENTER ST	15	73
1903	0676/2169-0677/2169	N/A	8	215
1904	0545/2169-0546/2169	N/A	8	121
1905	0528/2169-0529/2169	N/A	8	96
1906	0623/2169-0624/2169	KENMORE AVE	8	245
1907	0291/2215-0292/2215	BRESEE PL	8	303
1908	0171/2215-0172/2215	HALINOR AV	8	206
1909	0154/2215-0155/2215	BIG DALTON AV	8	330
1910	0635/2169-0643/2169	ILLINOIS ST	8	330
1911	0524/2214-0525/2214	MASELINE ST	8	129
1912	0088/2214-0089/2214	WIMMER AV	8	312
1913	0113/2214-0120/2214	BROOKPORT ST	8	269
1914	0475/2214-0477/2214	BADILLO ST	8	229
1915	0239/2214-0240/2214	LA RICA AV	8	318
1916	0672/2169-0673/2169	N/A	8	132
1917	0248/2168-0249/2168	MERCED AV	8	10
1918	0247/2168-0248/2168	MERCED AV	8	110
1919	0286/2169-0287/2169	ROBINETTE AV	8	48
1920	0325/2169-0328/2169	N/A	8	146
1921	0583/2169-0584/2169	GRACE AV	8	235
1922	0286/2215-0287/2215	MILLBURY AV	8	256
1924	0041/2215-0042/2215	BALDWIN PARK	8	125
1925	0379/2169-0380/2169	VIRGINIA AV	8	325
1926	0423/2214-0424/2214	MAUPIN AV	8	302
1927	0413/2214-0414/2214	DOWNING AV	8	198
1928	0420/2214-0437/2214	MAINE AV	15	249
1929	0230/2215-0231/2215	STICHMAN AV	8	316
1930	0160/2169-0716/2169	RAMONA BL	8	147
1931	0504/2169-0505/2169	MONTEREY AV	8	290
1932	0402/2169-0403/2169	EARL AV	8	225
1933	0011/2169-0012/2169	PATRITTI AVE	8	347
1934	0565/2214-0566/2214	EAST RAMONA BV	8	338
1935	0500/2214-0501/2214	NUBIA ST	10	249
1936	0125/2214-0126/2214	LA RICA AV	8	287
1937	0020/2213-0021/2213	ARROW HWY	8	162
1938	0011/2213-0012/2213	ARROW HWY	8	342

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1939	0162/2168-0163/2168	HORNBROOK AV	8	162
1940	0496/2169-0497/2169	FRAZIER ST	10	332
1941	0646/2169-TRUNK/2169	FRANCISQUITO AV	8	50
1942	0377/2214-0378/2214	ESTELLA ST	8	255
1943	0269/2214-0270/2214	PALM AV	8	364
1944	0284/2214-0285/2214	ALLEY	8	210
1945	0039/2215-0042/2215	LA RICA AV	8	335
1946	0065/2168-0122/2168	LOS ANGELES ST	15	308
1947	0566/2169-TRUNK/2169	GRACE AV	8	310
1948	0387/2169-0388/2169	FEATHER AV	8	310
1949	0199/2215-TRNK/2215	VINELAND AV	8	40
1950	0656/2170-0657/2170	BESS AV	12	312
1951	0003/2170-0004/2170	VALENS ST	8	275
1952	0373/2169-0374/2169	MAINE AV	8	319
1953	0117/2214-0118/2214	STEWART AV	10	322
1954	0453/2214-0454/2214	EAST RAMONA BV	8	273
1955	0301/2169-0302/2169	N/A	8	345
1956	0241/2169-0267/2169	FAIRGROVE ST	8	320
1957	0220/2215-0225/2215	CHANNING ST	8	307
1958	0298/2215-0305/2215	CHANNING ST	8	340
1959	0401/2215-0402/2215	SWANEE LN	8	343
1960	0145/2215-0146/2215	DALEWOOD AV	15	222
1961	0280/2169-0283/2169	FAIRGROVE ST	8	310
1962	0254/2214-0256/2214	CLARK ST	8	260
1963	0599/2214-0600/2214	SANDSTONE ST	8	190
1964	0472/2214-0473/2214	BOGART AV	8	129
1965	0074/2168-0076/2168	N/A	8	107
1966	0376/2168-0377/2168	CENTER ST	15	339
1967	0538/2169-0540/2169	RAMONA BLVD	8	211
1968	0342/2169-0343/2169	REMEY AV	8	290
1969	0434/2169-0435/2169	BALDWIN PARK BV	12	280
1970	0124/2170-0125/2170	BESS AV	10	216
1971	0068/2214-0071/2214	NUBIA ST	8	157
1972	0094/2214-0095/2214	OLIVE ST	10	335
1973	0012/2215-0013/2215	RAMONA BV	8	350
1974	0199/2215-0200/2215	CHEVALIER AV	8	250
1975	0114/2168-0115/2168	HORNBROOK AV	18	291
1976	0235/2168-0237/2168	BELLBROOK ST	8	150
1977	0135/2169-0136/2169	COSBEY AVE	8	300
1978	0243/2169-0258/2169	ATHOL ST	12	302
1979	0354/2215-0363/2215	PUENTE AV	8	80
1980	0423/2169-0424/2169	FOSTER AVE	12	350
1981	0277/2169-0278/2169	GARVEY AVE	12	253
1982	0419/2216-TRNK/2216	FRANCISQUITO AV	8	55
1983	0030/2168-0274/2168	N/A	8	315
1984	0003/2214-0291/2168	SANDSTONE ST	8	250
1985	0614/2214-0619/2214	LA SENA AV	8	289
1986	0023/2168-0024/2168	PALM AV	8	130
1987	0191/2215-0192/2215	CENTRAL AV	8	281
1988	0155/2168-0156/2168	HORNBROOK AV	8	192
1989	0388/2168-0389/2168	N/A	15	102
1990	0694/2169-0695/2169	CENTER ST	15	34
1991	0660/2169-0661/2169	N/A	8	168
1992	0534/2169-0535/2169	N/A	8	102
1993	0300/2215-0301/2215	VAN WIG AV	8	240
1994	0012/2170-0013/2170	FARNELL ST	8	283

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
1995	0351/2169-0352/2169	N/A	8	70
1996	0518/2169-0519/2169	GRACE AV	8	240
1997	0209/2169-0210/2169	EARL AVE	8	244
1998	0365/2215-0366/2215	CLEARY DR	8	144
1999	0012/2169-0013/2169	PATRITTI AV	8	212
2000	0168/2214-0169/2214	LANDIS AV	8	260
2001	0539/2214-0540/2214	ELTON ST	8	281
2002	0025/2168-0026/2168	JERRY AV	8	285
2003	0279/2214-0280/2214	ROBIN AV	8	298
2004	0441/2214-0442/2214	INA ST	8	293
2005	0225/2169-TRUNK/2169	FRAZIER ST	8	12
2006	0148/2168-0152/2168	HARLAN AV	8	228
2007	0027/2169-0045/2169	ROYSTON ST	8	277
2008	0003/2169-0004/2169	PATRITTI AVE	8	276
2009	0572/2169-0573/2169	MONTEREY AV	8	100
2010	0349/2215-0351/2215	MILLBURY AV	8	147
2011	0631/2169-0632/2169	ALLEY	8	279
2012	0479/2214-0482/2214	BADILLO ST	8	301
2013	0119/2168-0132/2168	LOS ANGELES ST	12	250
2014	0562/2169-0563/2169	FILHURST AV	8	191
2015	0131/2169-0132/2169	SN GBRL R PKY	8	270
2016	0311/2215-0313/2215	PUENTE AV	12	159
2017	0169/2214-0170/2214	LANDIS AV	8	275
2018	0411/2170-0412/2170	VIRGINIA AV	8	287
2019	0494/2214-0500/2214	NUBIA ST	10	249
2020	0398/2168-0401/2168	COMMERCE DR	15	228
2022	0090/2168-0336/2168	CENTER ST	8	216
2023	0513/2169-0514/2169	ST.JAMES PL	8	116
2024	0145/2169-0147/2169	EGIL AVE	8	118
2025	0236/2215-0237/2215	STICHMAN AV	8	275
2026	0309/2215-0311/2215	PUENTE AV	12	181
2027	0269/2169-TRUNK/2169	GARVEY AVE	8	175
2028	0111/2170-0115/2170	FRAZIER ST	10	216
2029	0193/2214-0197/2214	BENHAM AV	8	285
2030	0394/2214-0395/2214	PHELAN AV	8	294
2031	0406/2214-0407/2214	DEMBLON ST	8	210
2032	0060/2214-0064/2214	NUBIA ST	8	270
2033	0078/2168-0080/2168	FOUNTAIN CT	8	80
2034	0257/2169-0258/2169	ATHOL ST	12	302
2035	0554/2169-0555/2169	HORNBROOK AV	8	250
2036	0498/2169-0499/2169	MERCED AVE	8	205
2037	0384/2169-0388/2169	GARVEY AV	8	322
2038	0278/2169-0280/2169	FAIRGROVE ST	8	330
2039	0700/2169-0701/2169	FRANCISQUITO AV	12	88
2040	0412/2214-0415/2214	LOS ANGELES ST	8	345
2041	0512/2214-0516/2214	NUBIA ST	10	93
2042	0096/2168-0097/2168	MORGAN ST	8	256
2043	0112/2168-0114/2168	HORNBROOK AV	18	280
2044	0242/2168-0243/2168	MERCED AV	8	295
2045	0121/2169-0122/2169	RAMONA BLVD	8	121
2046	0582/2169-0583/2169	N/A	8	341
2047	0062/2215-0063/2215	PADDY LN	8	270
2048	0393/2215-0454/2215	N/A	8	190
2049	0049/2214-0052/2214	LA RICA AV	10	250
2050	0243/2168-0244/2168	MERCED AV	8	289
2051	0576/2169-0585/2169	CENTER ST	8	56

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2052	0364/2215-0365/2215	ROOT ST	8	376
2053	0349/2215-0350/2215	ALVINE LN	8	155
2054	0176/2215-0177/2215	ROBBIE CT	8	198
2055	0102/2170-0103/2170	FARNELL ST	8	177
2056	0125/2170-0197/2170	BESS ST	10	350
2057	0123/2170-0127/2170	N/A	8	180
2058	0326/2214-0327/2214	BLEECKER AV	10	194
2059	0013/2215-0014/2215	RAMONA BV	8	350
2060	0664/2169-0666/2169	PE RR R/W	8	164
2061	0442/2169-0660/2169	PARK BV	12	148
2062	0493/2169-0509/2169	MONTEREY AVE	8	325
2063	0061/2215-0064/2215	MACDEVITT ST	10	339
2064	0421/2170-0425/2170	WHITESSELL ST	8	63
2065	0289/2168-0290/2168	CUTLER ST	8	125
2066	0583/2214-0584/2214	N/A	8	195
2067	0016/2213-0017/2213	ARROW HWY	8	330
2068	0562/2214-0563/2214	EAST RAMONA BV	8	99
2069	0355/2169-0448/2169	TRACY ST	12	282
2070	0089/2168-0337/2168	N/A	8	310
2071	0224/2168-0226/2168	MONTEREY AV	8	150
2072	0194/2168-0314/2168	COMMERCE DR	8	47
2073	0223/2215-0224/2215	AHERN DR	8	354
2074	0242/2215-0243/2215	DUNDY AV	8	273
2075	0362/2214-0367/2214	HALLWOOD DR	8	262
2076	0610/2214-0621/2214	AZUSA CANYON RD	8	320
2077	0263/2168-C.O./2168	CUTLER AV	8	77
2078	0510/2214-0511/2214	CALMVIEW AV	8	275
2079	0245/2214-0246/2214	BALDWIN PARK BV	15	333
2080	0602/2169-0018/2168	BRESEE AV	8	329
2081	0171/2169-0172/2169	ATHOL ST	8	249
2082	0237/2215-TRNK/2215	CLYDEWOOD ST	8	325
2083	0253/2215-0254/2215	STOCKDALE ST	8	340
2085	0078/2169-0079/2169	N/A	15	283
2086	0396/2214-0415/2214	PHELAN AV	8	298
2087	0076/2214-0097/2214	BALDWIN PARK AV	8	298
2088	0451/2215-0452/2215	N/A	8	313
2089	0463/2214-0464/2214	DOWNING AV	8	322
2090	0366/2168-0407/2168	N/A	8	213
2091	0033/2169-0119/2169	RAMONA BLVD	8	351
2092	0248/2215-0250/2215	PACIFIC AV	8	98
2093	0354/2215-0383/2215	PUENTE AV	8	105
2094	0424/2170-0425/2170	WHITESSELL ST	8	312
2095	0272/2214-0273/2214	MORGAN ST	8	36
2096	0622/2214-0623/2214	AZUSA CANYON RD	8	305
2097	0217/2168-0218/2168	BENWOOD ST	8	257
2098	0497/2169-0498/2169	MERCED AVE	8	205
2099	0385/2169-0387/2169	CORAK ST	8	269
2100	0040/2214-0041/2214	BALDWIN PARK AV	8	330
2101	0480/2169-0481/2169	REXWOOD AV	8	92
2102	0126/2169-0127/2169	SN GBRL R PKY	8	280
2103	0468/2215-0469/2215	N/A	8	300
2104	0651/2169-0652/2169	GARVEY AV	8	260
2105	0367/2169-0368/2169	DALEWOOD ST	8	270
2106	0014/2168-0015/2168	BRESEE AV	8	299
2107	0059/2214-0060/2214	NUBIA ST	8	120
2108	0043/2168-C.O./2168	KENMORE ST	8	350

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2109	0144/2168-0145/2168	LITTLE JOHN ST	8	258
2110	0145/2169-0146/2169	EGIL AVE	8	240
2111	0612/2169-0613/2169	N/A	8	92
2112	0380/2215-0384/2215	CENTRAL AV	8	233
2113	0437/2169-0438/2169	BALDWIN PARK BV	12	256
2114	0422/2169-0423/2169	FOSTER AVE	12	350
2115	0127/2170-0128/2170	SHAVER ST	8	350
2116	0397/2214-0398/2214	PARK AV	8	316
2117	0110/2214-0337/2214	OLIVE ST	12	287
2118	0356/2215-0358/2215	PUENTE AV	8	320
2119	0115/2168-0116/2168	HORNBROOK AV	18	292
2120	0065/2168-0174/2168	CENTER ST	15	216
2121	0028/2169-0044/2169	SALISBURY ST	8	270
2122	0314/2215-0315/2215	PUENTE AV	12	363
2123	0531/2214-0536/2214	OLIVE ST	12	336
2124	0391/2214-0392/2214	PHELAN AV	8	298
2125	0513/2214-0514/2214	CALMVIEW AV	8	87
2126	0248/2215-0249/2215	N/A	8	345
2127	0426/2169-0427/2169	ROCKWAY DR	8	328
2128	0349/2214-0350/2214	CAVETTE PL	8	293
2129	0307/2168-0308/2168	ANADA ST	8	200
2130	0008/2215-0009/2215	RAMONA BV	8	95
2131	0003/2168-0004/2168	CUTLER AV	8	285
2132	0085/2168-0086/2168	PALM AV	8	275
2133	0110/2168-0111/2168	PALM AV	8	212
2134	0162/2169-0164/2169	RAMONA BLVD	8	237
2135	0141/2215-0140/2215	BIG DALTON AV	15	353
2136	0158/2215-0159/2215	GARVEY AV	8	300
2137	0610/2169-TRNK/2169	RAMONA PKWY	8	42
2138	0082/2214-0083/2214	LANDIS ST	8	50
2139	0200/2215-0201/2215	CHEVALIER AV	8	250
2140	0190/2215-0192/2215	VIRGINA AV	8	300
2141	0542/2169-0543/2169	N/A	8	103
2142	0162/2169-0163/2169	N/A	8	295
2143	0696/2169-0697/2169	CENTER ST	15	343
2144	0289/2215-0301/2215	HAVENBROOK ST	8	274
2145	0411/2214-0412/2214	LOS ANGELES ST	8	183
2146	0375/2214-0376/2214	ESTELLA ST	8	256
2147	0201/2215-0202/2215	CHEVALIER AV	8	238
2148	N/A	PADDY LN	8	287
2149	N/A	N/A	8	100
2150	N/A	N/A	8	135
2151	0174/2169-0175/2169	EARL AVE	8	485
2152	0102/2169-0103/2169	WACO ST	8	178
2153	0564/2169-0565/2169	VALLE VISTA AV	8	239
2154	0463/2215-0467/2215	TELLURIDE DR	8	96
2155	0372/2215-0373/2215	NAVILLA PL	8	103
2156	0101/2215-0102/2215	PADDY LN	8	320
2157	0374/2169-0375/2169	MAINE AV	8	232
2158	0542/2214-0543/2214	FORTIN ST	8	306
2159	0559/2214-0562/2214	EAST RAMONA BV	8	97
2160	0053/2168-0055/2168	N/A	8	208
2161	0352/2169-0702/2169	N/A	8	166
2162	0622/2169-0623/2169	KENMORE AVE	8	246
2163	0195/2169-0196/2169	TORREY CIR	8	130
2164	0295/2169-0296/2169	WACO ST	8	130

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2165	0128/2169-0129/2169	SN GBRL R PKY	8	278
2166	0117/2215-0118/2215	STICHMAN AV	8	96
2167	0356/2214-0357/2214	N/A	8	331
2168	0079/2214-0080/2214	CHILCOT ST	8	233
2169	0304/2214-0305/2214	MAINE AV	10	275
2170	0115/2214-0124/2214	BENWOOD ST	8	254
2171	0058/2215-0059/2215	PADDY LN	8	326
2172	0500/2169-0501/2169	KENMORE AVE	8	254
2173	0029/2215-0030/2215	BALDWIN PARK BV	8	300
2174	0018/2169-0019/2169	SYRACUSE AVE	15	330
2175	0266/2168-0267/2168	CUTLER AV	8	122
2176	0207/2214-0208/2214	LOS ANGELES ST	8	256
2177	0321/2214-0322/2214	MARION AV	8	387
2178	0341/2168-0342/2168	JERRY AV	8	50
2179	0402/2168-0403/2168	LIVE OAK AV	10	332
2180	0220/2169-0221/2169	EMERY AV	8	250
2181	0078/2168-0079/2168	FOUNTAIN CT	8	93
2182	0335/2169-0336/2169	N/A	8	108
2183	0254/2169-0256/2169	COSBEY AVE	8	247
2184	0068/2215-0091/2215	FEATHER AV	8	288
2185	0096/2215-0098/2215	FEATHER AV	8	78
2186	0384/2215-0385/2215	PUENTE AV	10	246
2187	0077/2169-TRUNK/2169	GARVEY AVE	21	50
2188	0005/2168-0006/2168	CUTLER AV	8	285
2189	0097/2214-0098/2214	OLIVE ST	8	226
2190	0084/2214-0090/2214	GATES ST	8	318
2191	0315/2214-0316/2214	CHILCOT ST	8	165
2192	0046/2214-0049/2214	LA RICA AV	10	256
2193	0490/2214-0491/2214	HEINTZ ST	8	300
2194	0300/2169-0301/2169	N/A	8	300
2195	0561/2169-TRUNK/2169	HARLAN AV	18	50
2196	0521/2169-0522/2169	RAMONA BLVD	8	296
2197	0404/2169-0405/2169	FOSTER AVE	8	338
2199	0302/2215-0303/2215	PUENTE AV	10	373
2200	0354/2215-0355/2215	PUENTE AV	8	291
2201	0376/2215-0377/2215	WILLOW AV	8	223
2202	0363/2169-0364/2169	BESS AV	10	223
2203	0233/2214-0236/2214	LA RICA AV	8	340
2204	0403/2214-0418/2214	LOS ANGELES ST	8	306
2205	0209/2168-0210/2168	OLIVE ST	12	331
2206	0018/2214-C.O./2214	NUBIA ST	8	148
2207	0390/2168-0391/2168	COMMERCE DR	15	353
2208	0551/2169-0552/2169	HORNBROOK AV	8	284
2209	0510/2169-0511/2169	MONTEREY AVE	8	325
2210	0473/2169-0474/2169	ROCKWAY DR	8	115
2211	0269/2215-0271/2215	N/A	8	141
2212	0496/2169-0626/2169	IDAHO ST	8	287
2213	0419/2214-0420/2214	MAINE AV	15	313
2214	0415/2214-0416/2214	LOS ANGELES ST	8	282
2215	0028/2168-0029/2168	ALLEY	8	233
2216	0086/2214-0087/2214	SCHOOL ST	8	152
2217	0617/2214-0618/2214	ANNISTON AV	8	326
2218	0001/2215-0223/2214	STEWART AV	12	281
2219	0185/2215-0186/2215	PACIFIC AV	15	152
2220	0668/2169-0669/2169	N/A	8	236
2221	0304/2169-0676/2169	N/A	8	135

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2222	0272/2169-0276/2169	GARVEY AVE	12	178
2223	0019/2170-TRNK/2170	LEDFORD ST	10	60
2224	0194/2214-0198/2214	LA RICA AV	8	281
2225	0299/2214-0300/2214	BALDWIN AV	8	321
2226	0032/2214-0033/2214	CRAGMONT ST	8	280
2227	0313/2169-0314/2169	TRACY ST	8	240
2228	0092/2168-0583/2169	GRACE AV	8	250
2229	0143/2168-0144/2168	LITTLE JOHN ST	8	354
2230	0202/2169-0203/2169	TORREY ST	8	325
2231	0243/2169-0244/2169	ATHOL ST	12	231
2232	0094/2169-0095/2169	WESTCOTT AV	8	217
2233	0368/2168-0369/2168	CENTER ST	15	355
2234	0073/2169-0076/2169	TORCH ST	15	155
2235	0196/2214-0201/2214	STEWART AV	10	28
2236	0002/2215-TRNK/2215	STEWART AV	12	185
2237	0037/2168-0038/2168	MERCED AV	10	295
2238	0190/2168-0191/2168	OLIVE ST	12	11
2239	0173/2215-0175/2215	WALNUT CREEK PKWY	8	350
2240	0343/2214-0344/2214	OLIVE ST	12	227
2241	0209/2214-0210/2214	LOS ANGELES ST	8	232
2242	0258/2214-0694/2214	CLARK ST	8	118
2243	0323/2214-0340/2214	MARION AV	8	305
2244	0009/2214-0010/2214	STEWART ST	8	352
2245	0554/2214-0555/2214	PARK PL	8	266
2246	0361/2215-0362/2215	PUENTE AV	8	182
2247	0132/2168-0133/2168	LOS ANGELES ST	12	208
2248	0066/2168-0123/2168	LOS ANGELES ST	8	294
2249	0331/2169-0332/2169	N/A	8	132
2250	0391/2215-0458/2215	PACIFIC AV	8	50
2251	0411/2215-0412/2215	MAYLAND AV	8	275
2252	0276/2169-0279/2169	N/A	8	241
2253	0650/2170-0687/2169	N/A	8	350
2254	0148/2215-0149/2215	BIG DALTON AV	15	116
2255	0163/2214-0164/2214	BELGATE ST	8	297
2256	0208/2168-0209/2168	OLIVE ST	12	331
2257	0316/2214-0321/2214	MARION AV	8	15
2258	0611/2214-0612/2214	LA SENA AV	8	321
2259	0053/2168-0054/2168	N/A	8	74
2260	0066/2168-0067/2168	LOS ANGELES ST	8	266
2261	0241/2168-0242/2168	MERCED AV	8	319
2262	0069/2168-0070/2168	N/A	8	130
2263	0702/2169-0703/2169	N/A	8	178
2264	0164/2215-0326/2215	GARVEY AV	8	225
2265	0086/2215-0087/2215	HAVENBROOK AV	8	390
2266	0277/2215-0456/2215	BIG DALTON AV	8	81
2267	0015/2170-0016/2170	FARNELL ST	8	243
2268	0375/2169-0376/2169	MAINE AV	8	232
2269	0671/2214-0672/2214	DOWNING AV	8	220
2270	0116/2214-0128/2214	BENBOW ST	8	267
2271	0691/2214-0403/2168	LIVE OAK AV	10	351
2272	0001/2168-0002/2168	CUTLER AV	8	330
2273	0392/2168-0393/2168	COMMERCE DR	15	336
2274	0023/2169-0024/2169	SYRACUSE AVE	12	280
2275	0407/2215-0453/2215	N/A	8	323
2276	0502/2169-0503/2169	KENMORE AVE	8	253
2277	0365/2169-0121/2170	LEORITA ST	8	203

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2278	0538/2214-0539/2214	ELTON ST	8	313
2279	0337/2214-0345/2214	MAINE AV	12	325
2280	0297/2168-L.H./2168	CLEARCREST DR	8	14
2281	0018/2214-C.O./2214	BENHAM AV	8	168
2282	0052/2214-0095/2214	LA RICA AV	10	283
2283	0293/2214-0298/2214	MAINE AV	10	330
2284	0317/2168-0318/2168	COMMERCE DR	8	350
2285	0678/2169-0679/2169	N/A	8	288
2286	0642/2169-0021/2215	ILLINOIS ST	8	268
2287	0167/2214-0168/2214	LANDIS AV	8	260
2288	0373/2214-0374/2214	ROCKENBACH ST	8	362
2289	0226/2215-TRNK/2215	ELSTEAD ST	8	30
2290	0074/2168-0075/2168	N/A	8	95
2291	0493/2169-0504/2169	MONTEREY AVE	8	80
2292	0347/2214-0348/2214	CAVETTE PL	8	280
2293	0310/2214-0338/2214	ELIZABETH AV	8	320
2294	0608/2214-0609/2214	AZUSA CANYON RD	8	345
2295	0192/2214-0196/2214	STEWART AV	10	273
2296	0228/2169-0229/2169	NOLINA ST	8	232
2297	0151/2168-0152/2168	BELGATE ST	8	207
2298	0188/2169-0189/2169	FRANCISQUITO AV	8	308
2299	0134/2169-0135/2169	COSBEY AVE	8	345
2300	0057/2215-0080/2215	HAVENBROOK ST	8	364
2301	0104/2215-0431/2169	FEATHER AVE	8	329
2302	0357/2169-0358/2169	GARVEY AVE	12	295
2303	0361/2214-0363/2214	MAUPIN AV	8	263
2304	0403/2214-0404/2214	LOS ANGELES ST	8	256
2305	0517/2214-0522/2214	NUBIA ST	10	231
2306	0464/2169-0465/2169	FOSTER AVE	8	260
2307	0054/2169-0055/2169	BARNES AVE	8	202
2308	0047/2215-0052/2215	LARICA AV	8	247
2309	0652/2169-TRNK/2169	GARVEY AV	8	250
2310	0417/2216-0418/2216	FRANCISQUITO AV	8	51
2311	0102/2214-0207/2168	OLIVE ST	8	331
2312	0157/2168-0163/2168	HORN BROOK AV	8	266
2313	0185/2168-0186/2168	CENTER ST	15	217
2314	0043/2169-0044/2169	SALISBURY ST	8	270
2315	0371/2215-0372/2215	NAVILLA PL	8	140
2316	0303/2168-0304/2168	CALAIS ST	8	200
2317	0302/2168-0313/2168	JERRY AV	8	268
2318	0597/2169-0599/2169	LUBICAN ST	8	358
2319	0207/2215-0208/2215	PACIFIC AV	15	292
2320	0195/2215-0196/2215	JEREMIE AV	8	210
2321	0166/2168-0184/2168	NORCO AV	8	205
2322	0172/2168-0173/2168	JARMAN PL	8	310
2323	0468/2169-0469/2169	FOSTER AVE	8	350
2324	0394/2169-0395/2169	PADDY LN	8	184
2325	0317/2169-0318/2169	FINCHLEY ST	8	199
2326	0029/2169-0037/2169	BLENHEIM ST	8	187
2327	0076/2215-0077/2215	MERCED AV	12	277
2328	0022/2213-0023/2213	ARROW HWY	8	513
2329	0095/2168-0096/2168	MORGAN ST	8	170
2330	0164/2168-0165/2168	BENBOW ST	8	230
2331	0522/2169-0523/2169	RAMONA BLVD	8	283
2332	0542/2169-TRUNK/2169	RAMONA PKWY	8	23
2333	0333/2169-0335/2169	N/A	8	88

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2334	0133/2169-0134/2169	COSBEY AVE	8	350
2335	0004/2169-0005/2169	PATRITTI AVE	8	278
2336	0064/2215-0065/2215	MACDEVITT ST	10	127
2337	0130/2170-0131/2170	JUDITH ST	8	100
2338	0184/2214-0680/2214	LAURENS AV	8	160
2339	0309/2214-0310/2214	ELIZABETH AV	8	322
2340	0293/2214-0294/2214	CALIFORNIA AV	8	320
2341	0488/2214-0490/2214	HEINTZ ST	8	373
2342	0195/2168-0196/2168	COMMERCE DR	8	290
2343	0235/2168-0236/2168	KENMORE AV	8	189
2344	0072/2168-0073/2168	CENTER ST	8	76
2345	0356/2169-0357/2169	GARVEY AVE	12	295
2346	0065/2169-0084/2169	DUTHIE ST	8	405
2347	0058/2169-0090/2169	FAIRGROVE ST	8	241
2348	0051/2169-0052/2169	FINCHLEY ST	8	269
2350	0345/2215-0347/2215	CENTRAL AV	8	248
2351	0397/2215-0398/2215	ARDILLA AV	8	97
2352	0023/2170-0651/2170	DALEWOOD ST	8	50
2353	0152/2215-0153/2215	BIG DALTON AV	15	17
2354	0346/2214-0347/2214	CAVETTE PL	8	280
2355	0010/2213-0011/2213	ARROW HWY	8	348
2356	0558/2214-0559/2214	EAST RAMONA BV	8	176
2357	0470/2169-0472/2169	N/A	8	228
2358	0256/2169-0259/2169	ATHOL ST	12	230
2359	0260/2215-0261/2215	CLYDEWOOD ST	8	340
2360	0289/2215-0290/2215	MILLBURY AV	8	355
2361	0423/2216-0424/2216	FRANCISQUITO AV	8	252
2362	0551/2214-0552/2214	LANTE ST	8	299
2363	0114/2214-0122/2214	BELLBROOK ST	8	194
2364	0580/2169-0581/2169	ELWYN DR	8	250
2365	0571/2169-0572/2169	MONTEREY AV	8	149
2366	0163/2215-0164/2215	GARVEY AV	8	225
2367	0398/2215-0401/2215	SWANEE LN	8	337
2368	0103/2215-0104/2215	FEATHER AV	8	87
2369	0279/2169-0280/2169	N/A	8	241
2370	0214/2214-0215/2214	LOS ANGELES ST	8	364
2371	0298/2168-0313/2168	NUBIA ST	8	119
2372	0217/2168-0231/2168	WALNUT ST	10	325
2373	0112/2215-0113/2215	JEANETTE LN	8	302
2374	0081/2215-0082/2215	PADDY LN	8	196
2375	0387/2215-0388/2215	PACIFIC AV	8	247
2376	0334/2215-0335/2215	GARVEY AV	8	190
2377	0142/2214-0143/2214	OHIO ST	8	297
2378	0015/2168-0016/2168	BRESEE AV	8	386
2379	0224/2169-0226/2169	TRACY ST	8	25
2380	0379/2168-0380/2168	CENTER ST	15	306
2381	0295/2169-0329/2169	N/A	8	101
2382	0574/2169-0575/2169	LUBICAN ST	8	256
2383	0691/2214-0692/2214	LIVE OAK AV	10	350
2384	0023/2215-0024/2215	BRESEE AV	8	63
2385	0023/2215-0024/2215	BRESEE AV	8	197
2386	0188/2168-0189/2168	CENTER ST	15	130
2387	N/A	MONTEREY AV	8	200
2388	N/A	MONTEREY AV	8	208
2389	0592/2169-0593/2169	WALNUT ST	12	135
2390	N/A	N/A	8	40

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2391	0549/2214-0550/2214	LANTE ST	8	279
2392	0549/2214-0550/2214	LANTE ST	8	28
2393	N/A	MASLINE ST	8	211
2394	N/A	N/A	8	261
2395	N/A	N/A	8	315
2396	0232/2214-0233/2214	LA RICA AV	8	127
2397	0345/2214-0346/2214	MAINE AV	12	221
2398	0345/2214-0346/2214	MAINE AV	12	110
2399	N/A	N/A	8	120
2400	N/A	N/A	8	70
2401	0114/2215-0115/2215	BIG DALTON AV	8	119
2402	0114/2215-0115/2215	BIG DALTON AV	8	169
2403	0161/2169-0716/2169	RAMONA BL	8	87
2404	0161/2169-0716/2169	RAMONA BL	8	111
2405	N/A	N/A	8	265
2406	0659/2170-0023/2170	DALEWOOD ST	8	17
2407	0022/2170-0659/2170	DALEWOOD ST	8	228
2408	N/A	VIA VAN CLEAVE	8	271
2409	N/A	PINHIERO PL	8	195
2410	0725/2214-0478/2214	BADILLO ST	8	152
2411	0477/2214-0725/2214	BADILLO ST	8	114
2412	N/A	LOZANO DR	8	73
2413	N/A	CALMVIEW AV	8	17
2414	N/A	CALMVIEW AV	8	60
2415	0167/2169-0168/2169	FOSTER AVE	8	100
2416	0167/2169-0168/2169	FOSTER AVE	8	252
2417	N/A	N/A	8	282
2418	N/A	N/A	8	349
2419	N/A	N/A	8	175
2420	0346/2169-0347/2169	FRANCISQUITO AV	8	165
2421	N/A	N/A	8	291
2422	N/A	N/A	8	57
2423	N/A	N/A	8	181
2424	N/A	N/A	8	322
2425	N/A	FOUNTAIN CT	8	86
2426	0635/2169-0636/2169	MERCED AVE	8	31
2427	0635/2169-0636/2169	MERCED AVE	8	184
2428	N/A	N/A	8	281
2429	N/A	BACA CT	8	95
2430	0036/2215-0037/2215	STEWART AV	8	235
2431	0036/2215-0037/2215	STEWART AV	8	96
2432	N/A	STEWART AV	8	220
2433	0481/2215-0408/2215	PACIFIC AV	8	171
2434	0407/2215-0481/2215	PACIFIC AV	8	113
2435	N/A	N/A	8	200
2436	N/A	N/A	8	200
2437	N/A	PINHIERO PL	8	194
2438	N/A	CHEVALIER AV	8	225
2439	N/A	CHEVALIER AV	8	226
2440	0038/2215-0486/2215	LA RICA AV	8	191
2441	0486/2215-0039/2215	LA RICA AV	8	164
2442	N/A	N/A	8	286
2443	0151/2169-0730/2169	FRANCISQUITO AV	10	59
2444	N/A	N/A	8	198
2445	N/A	PUENTE AV	8	182
2446	N/A	DALEWOOD ST	8	113

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2447	0139/2215-0465/2215	BIG DALTON AV	15	78
2448	0707/2214-0430/2214	LA RICA AV	8	232
2449	0241/2214-0707/2214	LA RICA AV	8	23
2450	N/A	N/A	8	169
2451	N/A	N/A	8	49
2452	N/A	N/A	8	54
2453	0272/2215-0473/2215	BIG DALTON AV	8	304
2454	0473/2215-0274/2215	BIG DALTON AV	8	41
2455	N/A	CHANNING ST	8	304
2456	0232/2214-0233/2214	LA RICA AV	8	50
2457	N/A	BALLENTINE PL	8	200
2458	N/A	BALLENTINE PL	8	200
2459	N/A	MERCED AV	8	96
2460	N/A	STICHMAN AV	8	251
2461	N/A	STICHMAN AV	8	149
2462	N/A	BELGATE ST	8	265
2463	0395/2214-0714/2214	PHELAN AV	8	260
2464	0714/2214-0396/2214	PHELAN AV	8	36
2465	N/A	DEMBLON ST	8	204
2466	N/A	BRESEE AV	8	135
2467	N/A	N/A	8	198
2468	0001/2215-0002/2215	STEWART AV	12	10
2469	0001/2215-0002/2215	STEWART AV	12	176
2470	N/A	N/A	8	215
2471	N/A	N/A	8	40
2472	N/A	N/A	8	30
2473	0166/2215-0167/2215	PUENTE AV	8	125
2474	0166/2215-0167/2215	PUENTE AV	8	58
2475	N/A	CALINO AV	8	335
2476	N/A	CALINO AV	8	249
2477	N/A	N/A	8	260
2478	0592/2169-0593/2169	WALNUT ST	12	165
2479	N/A	KENMORE AV	8	203
2480	N/A	KENMORE AV	8	142
2481	N/A	KENMORE AV	8	155
2482	N/A	N/A	8	108
2483	N/A	N/A	8	69
2484	0732/2169-0634/2169	MERCED AVE	8	23
2485	0497/2169-0732/2169	MERCED AVE	8	308
2486	N/A	SUSQUEHANNA AVE	8	200
2487	N/A	SUSQUEHANNA AVE	8	85
2488	N/A	SUSQUEHANNA AVE	8	117
2489	N/A	PADDY LN	8	67
2490	N/A	PADDY LN	8	228
2491	0640/2169-0641/2169	BRESEE AV	8	72
2492	0640/2169-0641/2169	BRESEE AV	8	146
2493	N/A	N/A	8	283
2494	0188/2168-0189/2168	CENTER ST	15	98
2495	0121/2169-0123/2169	RHODES LN	8	162
2496	0121/2169-0123/2169	RHODES LN	8	179
2497	N/A	ST JAMES CIR	8	88
2498	N/A	COURT DE LA GAIR	8	91
2499	N/A	COURT DE LA GAIR	8	164
2500	N/A	COURT DE LA GAIR	8	200
2501	N/A	PACHECO DR	8	130
2502	0717/2214-0475/2214	EAST RAMONA BV	8	90

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2503	0474/2214-0717/2214	EAST RAMONA BV	8	221
2504	N/A	PACHECO DR	8	205
2505	N/A	PACHECO DR	8	41
2506	N/A	LOZANO DR	8	209
2507	N/A	DOWNING AV	8	142
2508	0716/2214-0476/2214	DOWNING AV	8	20
2509	0475/2214-0716/2214	DOWNING AV	8	294
2510	0077/2168-0081/2168	CENTER ST	8	180
2511	0077/2168-0081/2168	CENTER ST	8	27
2512	N/A	CLARK ST	8	338
2513	0247/2214-0248/2214	BALDWIN PARK BV	15	173
2514	0247/2214-0248/2214	BALDWIN PARK BV	15	182
2515	N/A	N/A	8	32
2516	N/A	BROOKS DR	8	168
2517	N/A	RIVERGRADE RD	8	186
2518	N/A	MONTEREY AV	8	180
2519	N/A	MONTEREY AV	8	300
2520	0385/2215-0386/2215	PUENTE AV	10	276
2521	0385/2215-0386/2215	PUENTE AV	10	70
2522	N/A	N/A	8	205
2523	N/A	PLASCENCIA CT	8	279
2524	N/A	PLASCENCIA CT	8	174
2525	N/A	N/A	8	244
2526	0052/2168-0056/2168	WALNUT ST	12	149
2527	0052/2168-0056/2168	WALNUT ST	12	86
2528	N/A	N/A	8	34
2529	N/A	N/A	8	248
2530	0164/2169-0165/2169	RAMONA BLVD	8	78
2531	0164/2169-0165/2169	RAMONA BLVD	8	273
2532	N/A	N/A	8	284
2533	0443/2169-0444/2169	PARK BV	12	180
2534	N/A	FOSTER AVE	8	95
2535	N/A	PALMROSE ST	8	105
2536	0443/2169-0444/2169	PARK BV	12	67
2537	0443/2169-0444/2169	PARK BV	12	99
2538	N/A	N/A	8	197
2539	N/A	CHEVALIER AV	8	63
2540	N/A	DOWNING AV	8	210
2541	N/A	PARKWOOD PL	8	50
2542	N/A	PARKWOOD PL	8	326
2543	N/A	FAIRGROVE ST	8	73
2544	N/A	STICHMAN AV	8	183
2545	N/A	VAN WIG AV	8	250
2546	N/A	VAN WIG AV	8	250
2547	0443/2214-0444/2214	MORGAN ST	8	100
2548	0443/2214-0444/2214	MORGAN ST	8	60
2549	0180/2169-0432/2169	N/A	8	208
2550	0180/2169-0432/2169	N/A	8	200
2551	0022/2215-0023/2215	BRESEE AV	8	300
2552	0022/2215-0023/2215	BRESEE AV	8	42
2553	N/A	N/A	8	275
2554	N/A	Kenoak Dr.	8	293
2555	N/A	N/A	8	96
2556	N/A	N/A	8	115
2557	N/A	N/A	8	27
2558	N/A	N/A	8	92

OBJECTID	LA County Segment ID	Street	Diameter (in)	Pipe Length (ft)
2559	N/A	N/A	8	272
2560	N/A	N/A	8	314
2576	N/A	Badillo St	10	72
2580	N/A	N/A	8	275
2581	N/A	N/A	6	57
2582	N/A	N/A	6	88
2583	N/A	N/A	6	62
2584	N/A	N/A	6	128
2585	N/A	N/A	6	61
2586	N/A	N/A	6	79
2587	N/A	N/A	6	102
2588	N/A	N/A	6	102
2589	N/A	N/A	6	63
2590	N/A	N/A	6	69
2591	N/A	N/A	6	119
2592	N/A	N/A	8	144
2593	N/A	N/A	8	75
2594	N/A	N/A	8	155
2595	N/A	N/A	8	68
2596	N/A	N/A	8	159
2597	N/A	N/A	8	72
2608	N/A	N/A	8	223
2609	N/A	N/A	8	323
2610	N/A	N/A	8	243
2611	N/A	N/A	8	254
TOTAL				583,842

City of Baldwin Park

CCTV Inspection Results

Structurally Deficient Sewer Lines



Legend

- Manholes
- City Sewer Lines
- Rating
 - 1: Excellent
 - 2: Good
 - 3: Fair
 - 4: Poor
 - 5: Immediate Attention
- County Sewer Lines
- Sewer Pipes Not Inspected
- City Boundary
- Parcels



City of Baldwin Park

CCTV Inspection Results
Structurally Deficient Sewer Lines

EXHIBIT 2

0 500 1,000 2,000 Feet



City of Baldwin Park

Existing Sanitary Sewer System



- Legend**
- Manholes
 - City Sewer Lines
 - County Sewer Lines
 - City Boundary
 - Parcels



0 500 1,000 2,000 Feet

 **City of Baldwin Park**

Existing Sanitary Sewer System

EXHIBIT 3

 INCORPORATED

City of Baldwin Park

Potential Hydraulically Deficient Lines



- Legend**
- Manholes
 - Potential Hydraulically Deficient Lines
 - City Sewer Lines
 - County Sewer Lines
 - City Boundary
 - Parcels



0 500 1,000 2,000 Feet

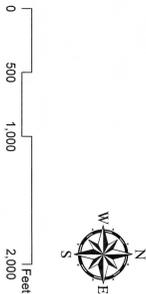
 **City of Baldwin Park**

Potential Hydraulically Deficient Lines

EXHIBIT 4



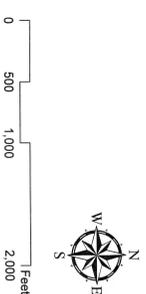
City of Baldwin Park System Inventory Map



- Legend**
- Manholes
 - City Sewer Lines
 - County Sewer Lines
 - ▭ Parcels


City of Baldwin Park
 System Inventory Map
 Map 1 of 2
 EXHIBIT A-1


City of Baldwin Park System Inventory Map



- Legend**
- Manholes
 - City Sewer Lines
 - County Sewer Lines
 - Parcels

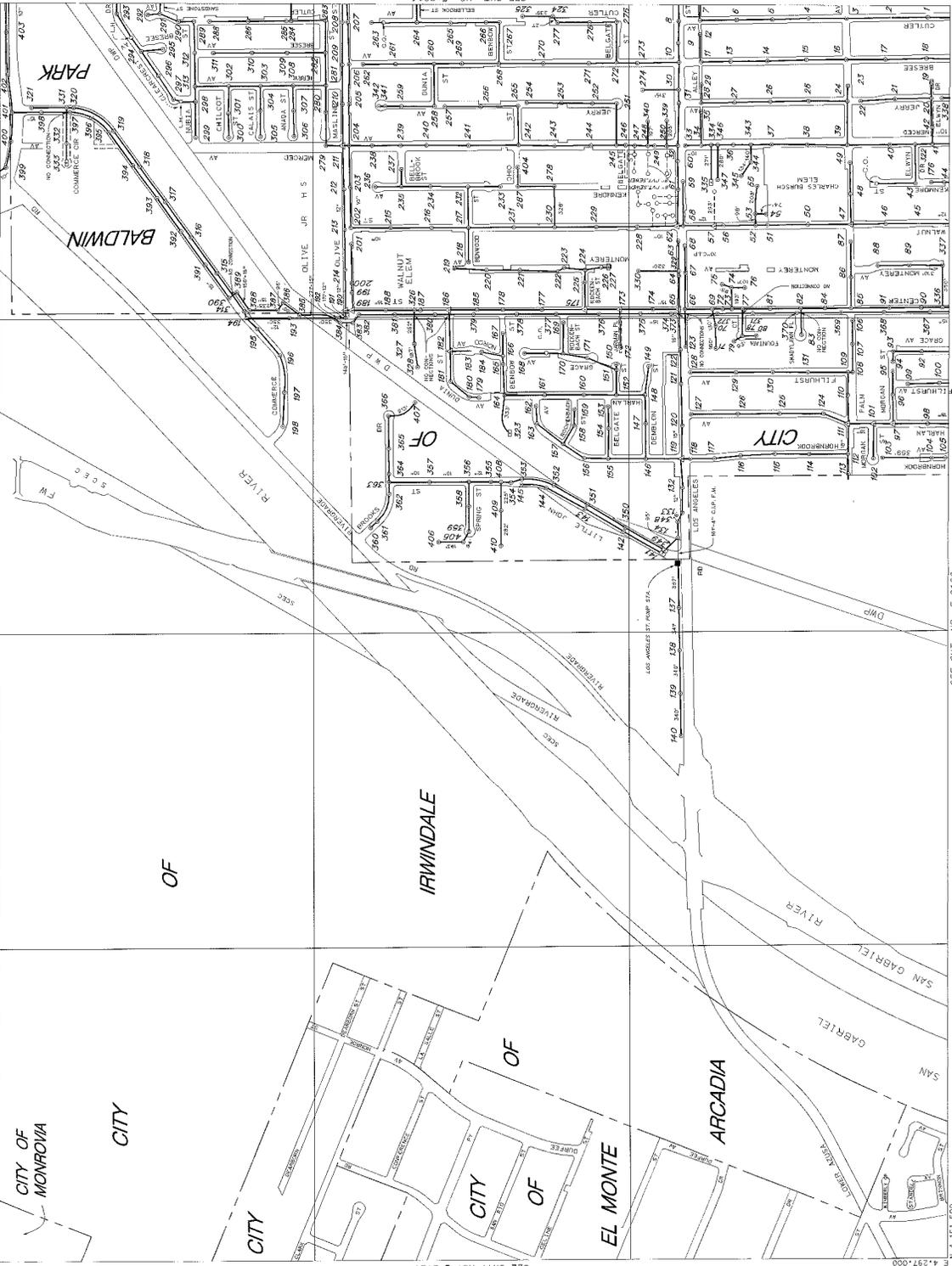
 **City of Baldwin Park**
System Inventory Map
Map 2 of 2

EXHIBIT A-2

 INCORPORATED

U-67
U-68

SEE SHIT. NO. E-2167



THIS MAP IS INTENDED FOR USE ONLY AS OPERATIONS MAP COUNT OF SEWER MAINTENANCE DISTRICTS. EXPRESS DISCLAMANT ANY LIABILITY FOR ANY ERRORS OR OMISSIONS WHICH MAY BE PRESENT IN THIS MAP.

SEE SHIT. NO. E-2214

SEE SHIT. NO. E-2121

SEE SHIT. NO. E-2163

SEE SHIT. NO. E-2169

SEE SHIT. NO. E-2170

SEE SHIT. NO. E-2171

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SEE SHIT. NO. E-2401

E-2169

U-63
U-18

THIS MAP IS INTENDED FOR USE ONLY ON THE OPERATIONS MAP BY LOS ANGELES MAINTENANCE DISTRICTS, LOS ANGELES COUNTY, EXPRESSED IN DECIMALS. ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.



LEGEND

- CLAY SEWERS MAINTAINED BY THE DISTRICT
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWER/LINED
- CEMENT SINK/LINED
- FORCE MAINS
- NOT MAINTAINED BY THE DISTRICT
- CITY BOUNDARY
- STANDARD MANHOLE
- DROP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- CLEANOUT
- LAMP HOLE
- PUMP STATION

TOTAL INCHES THIS MAP: 719

L.A. COUNTY



SEE SHIT. NO. E-2169

SEE SHIT. NO. E-2122

SEE SHIT. NO. E-2170

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08-08-99
DATA BASE REV
02-01-03

E-2169

CONSOLIDATED S.M.D.

E-2169

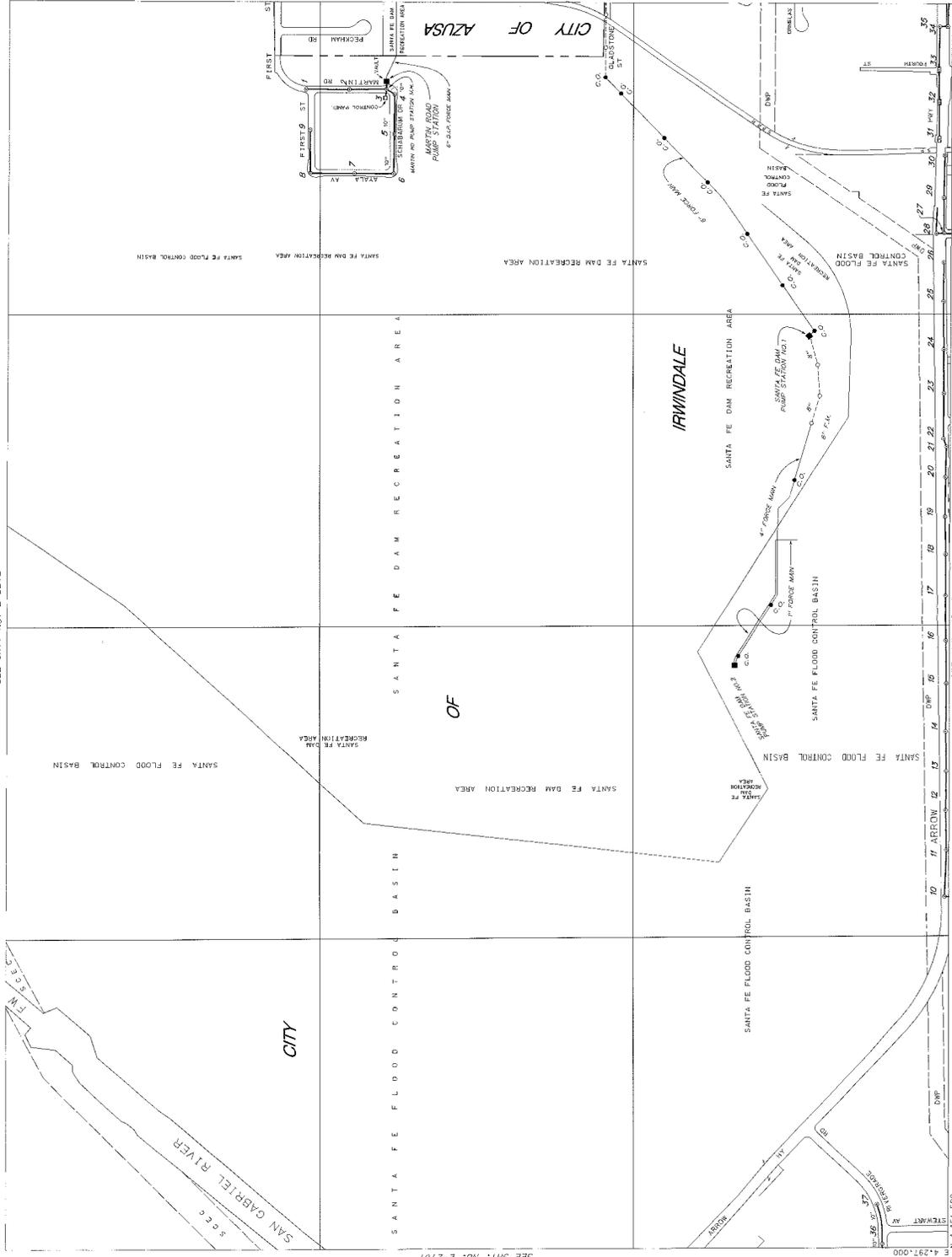
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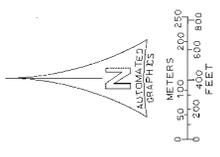
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SEE SHIT. NO. E-2212

A B C D



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LEGEND

- CLAY SEWERS MAINTAINED WISE NOTED UNLESS OTHER WISE NOTED
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWER LINED
- CURRENT SEWER LINE
- POLE MARKS
- BY THIS NOT MAINTAINED
- THINK SEWERS
- CITY BOUNDARY
- STANDARD MANHOLE
- DEEP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- CLEANOUT
- LAMP HOLE
- PUMP STATION

TOTAL HRS THIS MAP: 37

E-2213

CONSOLIDATED S.M.D.

SEE SHIT. NO. E-2214

B

C

D

E-2213

MAP REV
09-25-01
DATA BASE REV
01-25-89

1427.1429:2213

T1558101

E-2214

U-65
U-66
U-67
U-68
U-69
U-70

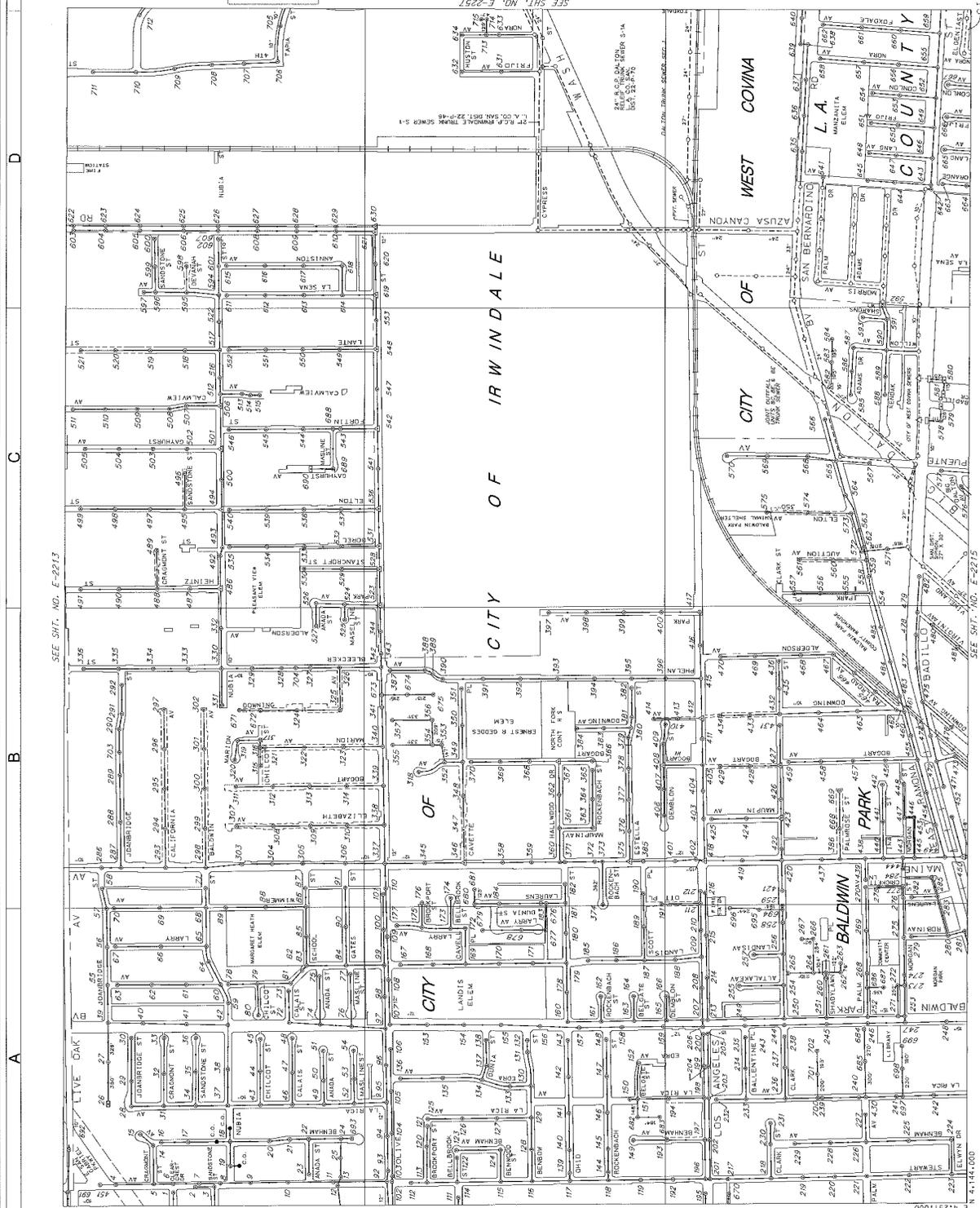
THIS MAP IS INTENDED FOR USE BY LOS ANGELES COUNTY SEWER MAINS, LOS ANGELES COUNTY, LOS ANGELES COUNTY, EXPRESSLY DISCLAIMS ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.



- LEGEND**
- ○ ○ ○ ○ PLASTIC SEWERS
 - ○ ○ ○ ○ CONCRETE SEWERS
 - ○ ○ ○ ○ CLAY SEWERS, UNID
 - ○ ○ ○ ○ CONCRETE SEWERS, UNID
 - ○ ○ ○ ○ FORCE MAINS
 - ○ ○ ○ ○ NOT MAINTAINED BY THIS OFFICE
 - ○ ○ ○ ○ TRUNK SEWERS
 - ○ ○ ○ ○ CITY BOUNDARY
 - ○ ○ ○ ○ STANDARD MANHOLE
 - ○ ○ ○ ○ DEEP MANHOLE
 - ○ ○ ○ ○ SHALLOW MANHOLE
 - ○ ○ ○ ○ TRAP MANHOLE
 - ○ ○ ○ ○ NEAR MANHOLE
 - ○ ○ ○ ○ CLEANOUT
 - ○ ○ ○ ○ LAMP HOLE
 - ○ ○ ○ ○ PUMP STATION

TOTAL W.M.'S THIS MAP: 7:15

E-2214



SEE SHIT. NO. E-2213

SEE SHIT. NO. E-2215

MAP REV 05-31-05
DATA BASE REV 02-03-83

MAP REV 05-31-05
DATA BASE REV 02-03-83

E-2214

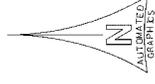
CONSOLIDATED S.M.D. CITY OF WEST COVINA

T15581C4

E-2215

LI-68
LI-70
LI-77

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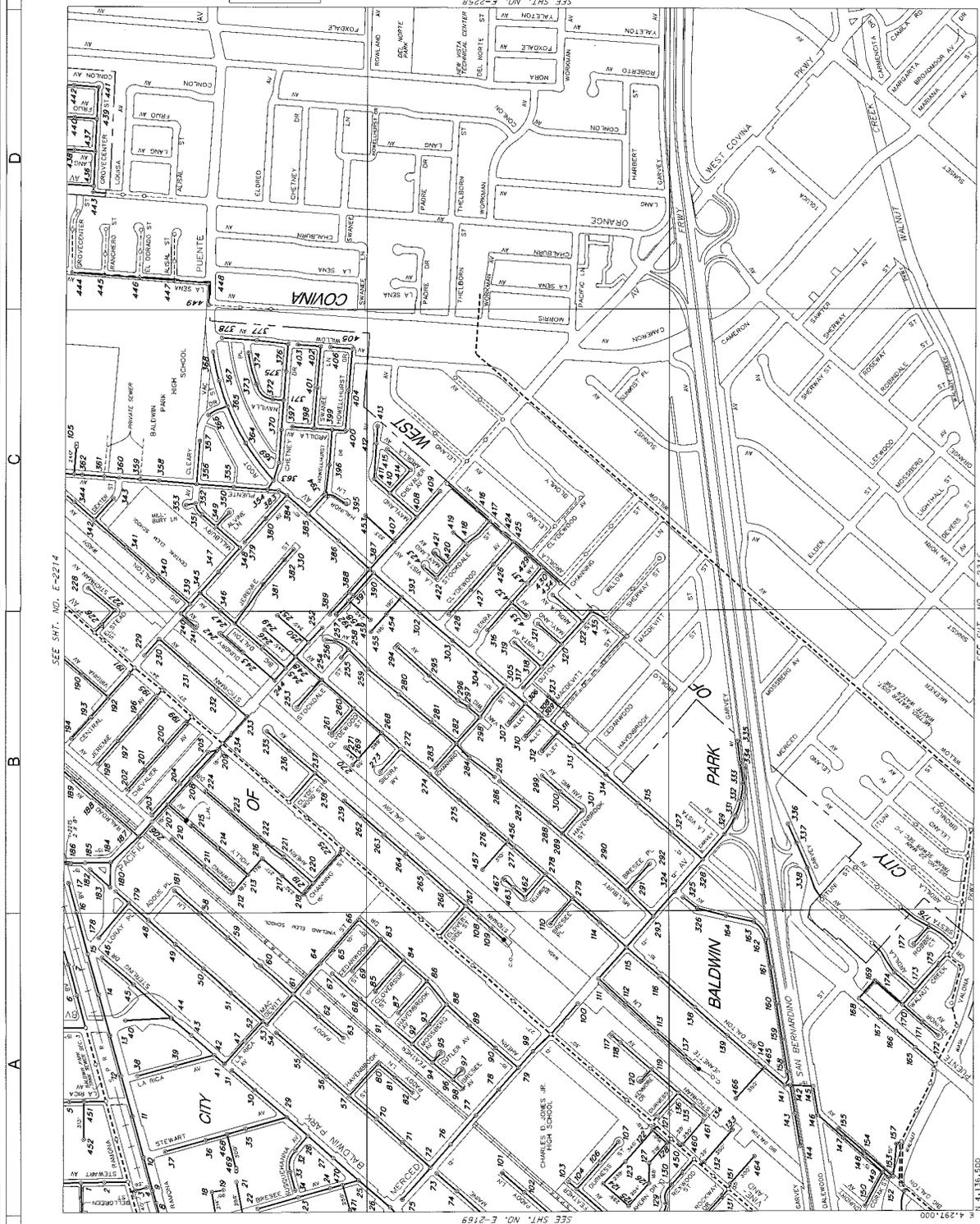


0 50 100 200 300
0 200 400 600 800
METERS
FEET

LEGEND

- CLAY SEWERS MAINTAINED BY THE CITY
- CLAY SEWERS MAINTAINED BY THE COUNTY
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWERS, LIKED
- GRASSY SEWERS, LIKED
- FORCE MAINS
- SEWERS NOT MAINTAINED BY THE CITY
- SEWERS NOT MAINTAINED BY THE COUNTY
- CITY BOUNDARY
- STANDARD MANHOLE
- DEEP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- REAR MANHOLE
- CLEANOUT
- LAMP HOLE
- PUMP STATION

TOTAL WM 5 THIS MAP: 470



SEE SHIT. NO. E-2214

SEE SHIT. NO. E-2169

SEE SHIT. NO. E-2216

N 11, 136, 1500

MAP REV
01-08-84
DATA BASE REV
11-18-92

E-2215

CONSOLIDATED S.M.D.

E-2215

T:588:05

1127-11229-2215

City of Baldwin Park

Sanitary Sewer Master Plan



Los Angeles County Sanitation District Loadings for Each Class of Land Use Table

TABLE 1
LOADINGS FOR EACH CLASS OF LAND USE

<u>DESCRIPTION</u>	<u>UNIT OF MEASURE</u>	<u>FLOW (Gallons Per Day)</u>	<u>COD (Pounds Per Day)</u>	<u>SUSPENDED SOLIDS (Pounds Per Day)</u>
RESIDENTIAL				
Single Family Home	Parcel	260	1.22	0.59
Duplex	Parcel	312	1.46	0.70
Triplex	Parcel	468	2.19	1.05
Fourplex	Parcel	624	2.92	1.40
Condominiums	Parcel	195	0.92	0.44
Single Family Home (reduced rate)	Parcel	156	0.73	0.35
Five Units or More	No. of Dwlg. Units	156	0.73	0.35
Mobile Home Parks	No. of Spaces	156	0.73	0.35
COMMERCIAL				
Hotel/Motel/Rooming House	Room	125	0.54	0.28
Store	1000 ft ²	100	0.43	0.23
Supermarket	1000 ft ²	150	2.00	1.00
Shopping Center	1000 ft ²	325	3.00	1.17
Regional Mall	1000 ft ²	150	2.10	0.77
Office Building	1000 ft ²	200	0.86	0.45
Professional Building	1000 ft ²	300	1.29	0.68
Restaurant	1000 ft ²	1,000	16.68	5.00
Indoor Theatre	1000 ft ²	125	0.54	0.28
Car Wash				
Tunnel - No Recycling	1000 ft ²	3,700	15.86	8.33
Tunnel - Recycling	1000 ft ²	2,700	11.74	6.16
Wand	1000 ft ²	700	3.00	1.58
Financial Institution	1000 ft ²	100	0.43	0.23
Service Shop	1000 ft ²	100	0.43	0.23
Animal Kennels	1000 ft ²	100	0.43	0.23
Service Station	1000 ft ²	100	0.43	0.23
Auto Sales/Repair	1000 ft ²	100	0.43	0.23
Wholesale Outlet	1000 ft ²	100	0.43	0.23
Nursery/Greenhouse	1000 ft ²	25	0.11	0.06
Manufacturing	1000 ft ²	200	1.86	0.70
Dry Manufacturing	1000 ft ²	25	0.23	0.09
Lumber Yard	1000 ft ²	25	0.23	0.09
Warehousing	1000 ft ²	25	0.23	0.09
Open Storage	1000 ft ²	25	0.23	0.09
Drive-in Theatre	1000 ft ²	20	0.09	0.05

TABLE 1
(continued)
LOADINGS FOR EACH CLASS OF LAND USE

<u>DESCRIPTION</u>	<u>UNIT OF MEASURE</u>	<u>FLOW</u> (Gallons Per Day)	<u>COD</u> (Pounds Per Day)	<u>SUSPENDED</u> <u>SOLIDS</u> (Pounds Per Day)
COMMERCIAL				
Night Club	1000 ft ²	350	1.50	0.79
Bowling/Skating Club	1000 ft ²	150	1.76	0.55
Club	1000 ft ²	125	0.54	0.27
Auditorium, Amusement	1000 ft ²	350	1.50	0.79
Golf Course, Camp, and Park (Structures and Improvements)	1000 ft ²	100	0.43	0.23
Recreational Vehicle Park	No. of Spaces	55	0.34	0.14
Convalescent Home	Bed	125	0.54	0.28
Laundry	1000 ft ²	3,825	16.40	8.61
Mortuary/Cemetery	1000 ft ²	100	1.33	0.67
Health Spa, Gymnasium				
With Showers	1000 ft ²	600	2.58	1.35
Without Showers	1000 ft ²	300	1.29	0.68
Convention Center, Fairground, Racetrack, Sports Stadium/Arena	Average Daily Attendance	10	0.04	0.02
INSTITUTIONAL				
College/University	Student	20	0.09	0.05
Private School	1000 ft ²	200	0.86	0.45
Church	1000 ft ²	50	0.21	0.11



NASSCO Standards



PACP Quick Rating – The PACP Quick Rating is a shorthand way of expressing the number of occurrences for the two highest severity grades. The PACP Quick Rating is a four character score as follows:

1. The first character is the highest severity grade occurring along the pipe length.
2. The second character is the total number of occurrences of the highest severity grade. If the total number exceeds 9, then alphabetic characters are used as follows- 10 to 14 – A; 15 to 19 – B; 20 to 24 – C; etc.
3. The third character is the next highest severity grade occurring along the pipe length.
4. The fourth character is the total number of the second highest severity grade occurrences, derived as in item 2 above.

For Example

4B27

This immediately shows that no grade 5 defects or grade 3 defects, however 15 to 19 grade 4 defects and seven grade 2 defects were found.

Another Example

3224
↑ ↑
GRADE

Two grade 3 defects and four grade 2 defects, however no grade 5 or grade 4 defects were found.

If a pipe segment only has defects of one grade, the first two characters are the grade and the quantity of defects, and the last two characters are 00 (denoting no other defect grades). A pipe segment with no defects would have a Quick Score of 0000 (all zeros).

The PACP Quick Rating provides the ability to summarize the number and severity of defects found within a pipe segment. As with the Pipe Rating, Quick Structural Ratings are calculated using only Structural Defect Grades, and Quick O&M Ratings are calculated using only O&M Defect Grades.



APPROACH

Using the PACP Code Matrix, Each PACP defect code is assigned a condition grade of from 1 to 5. Grades are assigned based on potential for further deterioration or pipe failure. Pipe failure is defined as when the pipe can no longer convey the pipe design capacity.

Grades are assigned for two categories, Structural, and O&M defects.

Grades are as follows;

5 - Immediate Attention	Defects requiring immediate attention
4 - Poor	Severe defects that will become Grade 5 defects within the foreseeable future
3 - Fair	Moderate defects that will continue to deteriorate
2 - Good	Defects that have not begun to deteriorate
1 - Excellent	Minor defects

The mechanisms and rates of pipeline deterioration are highly dependent on local conditions. However the following general guidelines are provided to estimate the amount of time before the defect causes complete line failure. These guidelines should be verified by actual research under prevailing local conditions.

- 5 - Pipe has failed or will likely fail within the next five years
- 4 - Pipe will probably fail in 5 to 10 years
- 3 - Pipe may fail in 10 to 20 years
- 2 - Pipe unlikely to fail for at least 20 years
- 1 - Failure unlikely in the foreseeable future

Grading of Continuous Defects

The PACP continuous defect feature is used to denote where long portions of a sewer pipe are affected by the same defect, without the User having to repetitively enter point



PAC Program© Condition Grading System

The Pipeline Assessment and Certification Program (PACP) developed by NASSCO provides a mechanism for creating reliable descriptions of pipe conditions. NASSCO has also developed a system based on the PACP codes to assign a condition rating to pipelines. Requirements of the grading system were as follows:

1. Like the PACP, the grading system should be direct and objective.
2. Provide the ability to quantitatively measure the difference in pipe condition between one inspection and subsequent inspections, and to prioritize among different pipe segments.

Many other approaches to sewer pipe grading have been used in the United States as well as in other parts of the World. These approaches generally use some type of defect grading that is then used to calculate an overall pipe rating.

It is problematic to develop a single pipe segment rating that fully describes all of the important aspects of a pipe. Therefore the PACP Condition Grading System uses more than one method of rating pipe segment condition including a rating that considers the number of total defects within the pipe segment and a rating that considers the most severe defects within the pipe segment.

The PACP Condition Grading System only considers internal pipe conditions obtained from TV inspection. While other factors such as pipe material, depth, soils, and surface conditions also affect pipe survivability, those factors have not been included in this version of the PACP Condition Grading System. The PACP Condition Grading System should be used as a tool for screening pipe segments, allowing the User to quickly determine which pipe segments have significant defects. It is expected that as the PACP further develops the PACP Condition Grading System will expand to include other factors.

The PACP Condition Grading System provides condition ratings for Structural Defects and Operation and Maintenance Defects.

D-1



defects. However to develop a grade for the pipe segment, a mechanism is needed to translate a continuous defect into an equivalent number of point defects. The original version of the PACP Condition Grading System calculated the number of "repeated continuous" (joint) defect grades by dividing the length of the continuous defect by the joint length. However, the PACP defect coding and the PACP database do not distinguish between whether a continuous defect is "repeating" or "truly". Therefore the grading methodology for determining the equivalent number of defects from continuous defects is changed and now no differentiation is made between the two types of continuous defects.

The equivalent number (quantity) of "truly" and "repeating" continuous defects is calculated by dividing the length of the continuous defect by 5. Example, a 6-meter long continuous defect, grade 3, should equate to four Grade 3 defects. Fractions are rounded to the nearest whole number.

Pipe Ratings

The pipe rating is based on the number of occurrences for each condition grade. Ratings are calculated separately for **Structural Defects** and **O&M Defects**. Several ways of expressing pipe segment condition are used by the PACP Condition Grading System as follows.

Segment Grade Scores - Each pipe segment will have a Segment Grade Score for each of the five grades. The number of occurrences of each pipe grade is multiplied by the pipe grade to calculate the segment grade score. Example, six Grade 5 defects would be 6 times 5 and equates to a Segment Grade 5 Score of 30. If a pipe segment had no defects of a particular grade, then the Segment Grade Score for that grade would be 0.

Overall Pipe Rating - The five Segment Grade Scores are added together to calculate the Overall Pipe Rating. **Structural Pipe Ratings** are calculated using only Structural Defect grades, while **O&M Pipe Ratings** are calculated using only O&M Defect grades.



Pipe Ratings Index – This is an indicator of the distribution of defect severity. The Pipe Ratings Index is calculated by dividing the Pipe Rating by the number of defects. For example, the Structural Pipe Ratings Index would be the Structural Pipe Rating divided by the number of structural defects. Pipe Ratings Indexes are calculated for Structural, O&M, and Overall. A pipe segment with a Pipe Rating of zero (0) would have a Pipe Rating Index of zero (0).

Summary

The following procedures are used to calculate pipe segment ratings using the PACP Condition Grading System:

1. Determine the number of occurrences for each condition grade within the pipe segment. Calculate separately for Structural Defect Grades and O&M Defect Grades.
2. Calculate the Segment Grade Score by multiplying the number of occurrences by the respective grade 1 through 5. Calculate the Structural Segment Grade Score and the O&M Segment Grade Score separately, then add together for the Overall Segment Grade Score.
3. Calculate the Pipe Rating for the pipe segment by adding the Segment Grade Scores. Add all five Structural Segment Grade Scores for the Structural Pipe Rating, and add all five O&M Segment Grade Scores for the O&M Pipe Rating. Add all five Overall Segment Grade Scores for the Overall Pipe Rating.
4. Determine the PACP Quick Rating by calculating the number of occurrences of the two highest severity grades.
5. Calculate the Pipe Ratings Index by dividing the Pipe Rating by the number of defects. If the pipe has no defects, the Pipe Ratings Index is zero.