
Appendix L

Sewer Report

DEXTER WILSON ENGINEERING, INC.

WATER • WASTEWATER • RECYCLED WATER
CONSULTING ENGINEERS

**SEWER SYSTEM ANALYSIS
FOR THE 9407 JERICHO ROAD PROJECT
IN THE CITY OF LA MESA**

August 10, 2023

**SEWER SYSTEM ANALYSIS
FOR THE 9407 JERICHO ROAD PROJECT
IN THE CITY OF LA MESA**

August 10, 2023



8-10-2023

**Prepared by:
Dexter Wilson Engineering, Inc.
2234 Faraday Avenue
Carlsbad, CA 92008
(760) 438-4422**

Job No. 1043-003

TABLE OF CONTENTS

	<u>PAGE NO.</u>
Introduction and Purpose.....	1
Sewer System Design Criteria	2
Sewer Generation Rates.....	2
Peaking Factor.....	2
Manning's "n"	4
Depth and Velocity of Flow in Gravity Sewers	4
Onsite Gravity Sewer Lines	4
Existing Sewer System.....	5
Existing Sewer Flows	5
Proposed Sewer Facilities	7
Sewer System Capacity Analysis.....	7
Sewer System Capacity Analysis Results.....	9
Sewer System Condition Assessment	9
Conclusions and Recommendations.....	10

APPENDICES

APPENDIX A	PRELIMINARY SITE PLAN
APPENDIX B	CITY OF LA MESA DESIGN CRITERIA BASE MAPS AND AS-BUILT DRAWINGS
APPENDIX C	SEWER SYSTEM CAPACITY ANALYSIS RESULTS
APPENDIX D	SEWER SYSTEM CONDITION ASSESSMENT

EXHIBIT

EXHIBIT A	SEWER MANHOLE DIAGRAM (Back of Appendix C)
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LIST OF TABLES

	<u>PAGE NO.</u>
TABLE 1 9407 JERICHO ROAD PROJECT CITY OF LA MESA SEWER GENERATION RATES	2
TABLE 2 EXISTING SEWER FLOWS TRIBUTARY TO JERICHO ROAD.....	5
TABLE 3 9407 JERICHO ROAD PROJECTED SEWAGE FLOWS	7
TABLE 4 9407 JERICHO ROAD PROJECT EXISTING DOWNSTREAM SEWER IMPACTS.....	9
TABLE 5 JERICHO ROAD GRAVITY SEWER INSPECTION RESULTS	10

LIST OF FIGURES

	<u>PAGE NO.</u>
FIGURE 1 VICINITY MAP	3
FIGURE 2 EXISTING SEWER FACILITIES	6
FIGURE 3 PROPOSED SEWER FACILITIES	8

DEXTER WILSON ENGINEERING, INC.

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August 10, 2023

1043-003

MLC Holdings, Inc.
5 Peters Canyon Road, Suite 310
Irvine, CA 92606

Attention: Johanna Crooker, Director of Forward Planning

Subject: Sewer System Analysis for the 9407 Jericho Road Project in the City of La Mesa

Introduction and Purpose

The 9407 Jericho Road project is located in the City of La Mesa southwest of the Jericho Road and Broadmoor Drive intersection. Access to the project is also from the Jericho Road and Broadmoor Drive intersection. Sewer service for the 9407 Jericho Road project will be provided by the City of La Mesa.

The proposed 9407 Jericho Road project is a residential development on an approximately 3.48-acre parcel. It is situated within a previous church site. The proposed project would develop 73 townhome residential units. Elevations within the project range from a low of 642 feet to a high of 652 feet in elevation.

The purpose of this letter-report is to analyze the existing and proposed public sewer system for the 9407 Jericho Road project and determine if there are any sewer system deficiencies created by the proposed development of this property.

A Vicinity Map for the project is shown on Figure 1 and a preliminary site plan for the project is included in Appendix A.

Sewer System Design Criteria

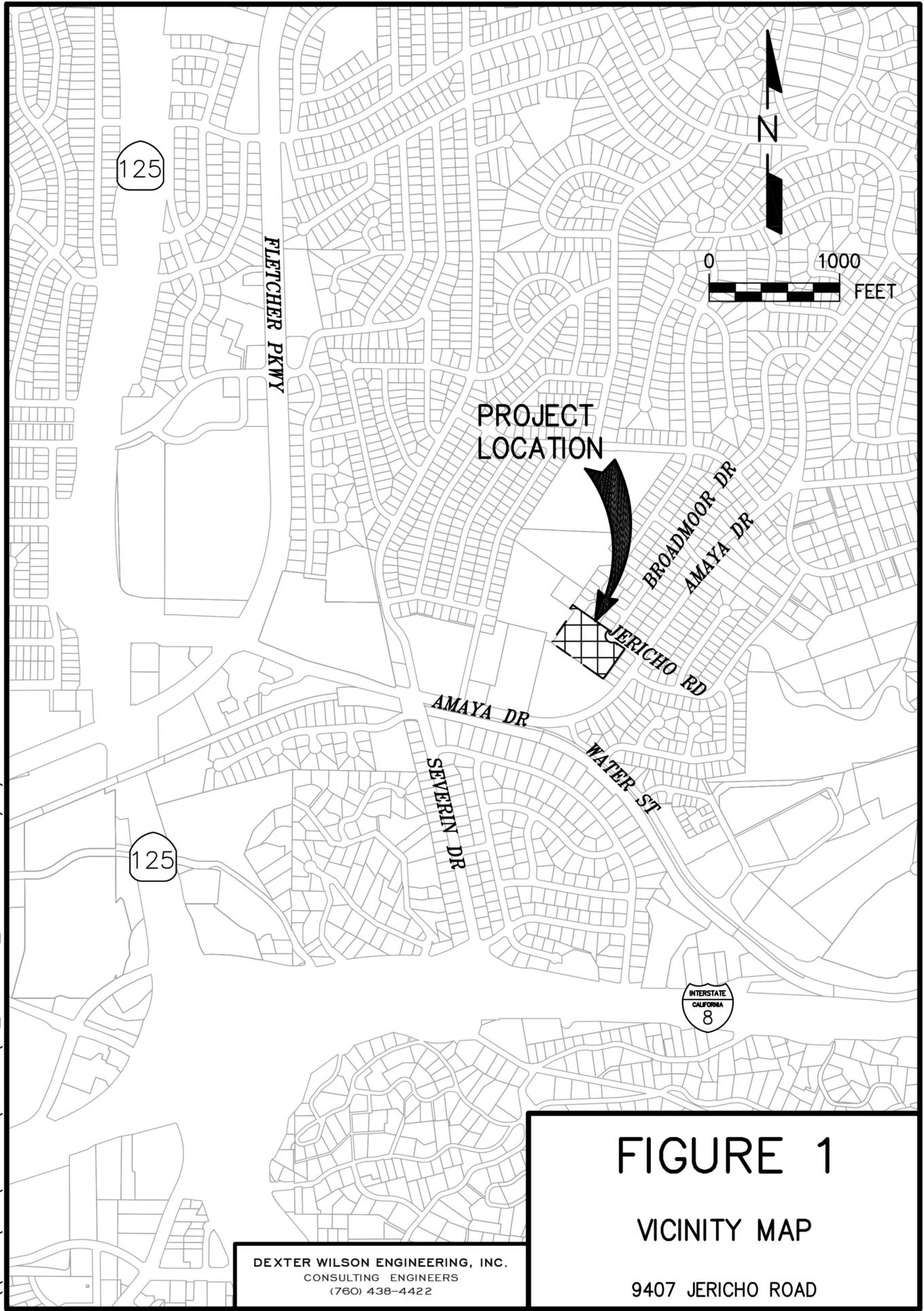
The design criteria used for the evaluation of the offsite sewerage system impacts by the 9407 Jericho Road project are based on the City of La Mesa Wastewater Collection System Master Plan dated October 2008 (Master Plan) and the Water Agencies' Standards (WAS), unless otherwise indicated. A copy of the pertinent sections of the design criteria in the City's Master Plan is attached as Appendix B.

Sewer Generation Rates. The sewer generation rates for the project and surrounding area are presented as Table 1 below.

TABLE 1 9407 JERICHO ROAD PROJECT CITY OF LA MESA SEWER GENERATION RATES	
Land Use	Generation Rate
Low-Density (Single-Family) Residential	270 gpd/DU
Mid-Density (Multi-Family) Residential	180 gpd/DU
Commercial, Industrial, and Institutional	500 gpd/ac

Peaking Factor

The peaking factor for residential development is identified in the City's Master Plan. The peaking factor is given as a formula. The formula is stated: Peaking Factor = $7.9817/Q^{0.121}$, where Q equals average flow in gpd.



Manning's "n"

The gravity sewer analyses are prepared using a computer spreadsheet calculation which uses the Manning Equation for all of its calculations. The Manning's "n" used by the computer spreadsheet calculation is held as a constant for all depths in a circular conduit. The value of Manning's "n" used for this study is 0.013 for VCP and 0.011 for all other pipe material per WAS.

Depth and Velocity of Flow in Gravity Sewers

Gravity sewer lines are designed to convey peak flow. New sewer pipelines that are 12-inches in diameter and smaller are designed to convey this flow with a maximum depth-to-diameter (d/D) ratio of 0.50. New sewer pipelines that are larger than 12-inches in diameter are designed for a maximum d/D ratio of 0.75. Gravity sewer lines are designed to maintain a minimum velocity of 2.0 feet per second at peak flow to prevent the deposition of solids.

Onsite Gravity Sewer Lines

The onsite sewer facilities for the project are proposed to be private. These facilities will be formally designed in accordance with the California Plumbing Code and/or City's design standards and will be analyzed in a separate study/report.

Existing Sewer System

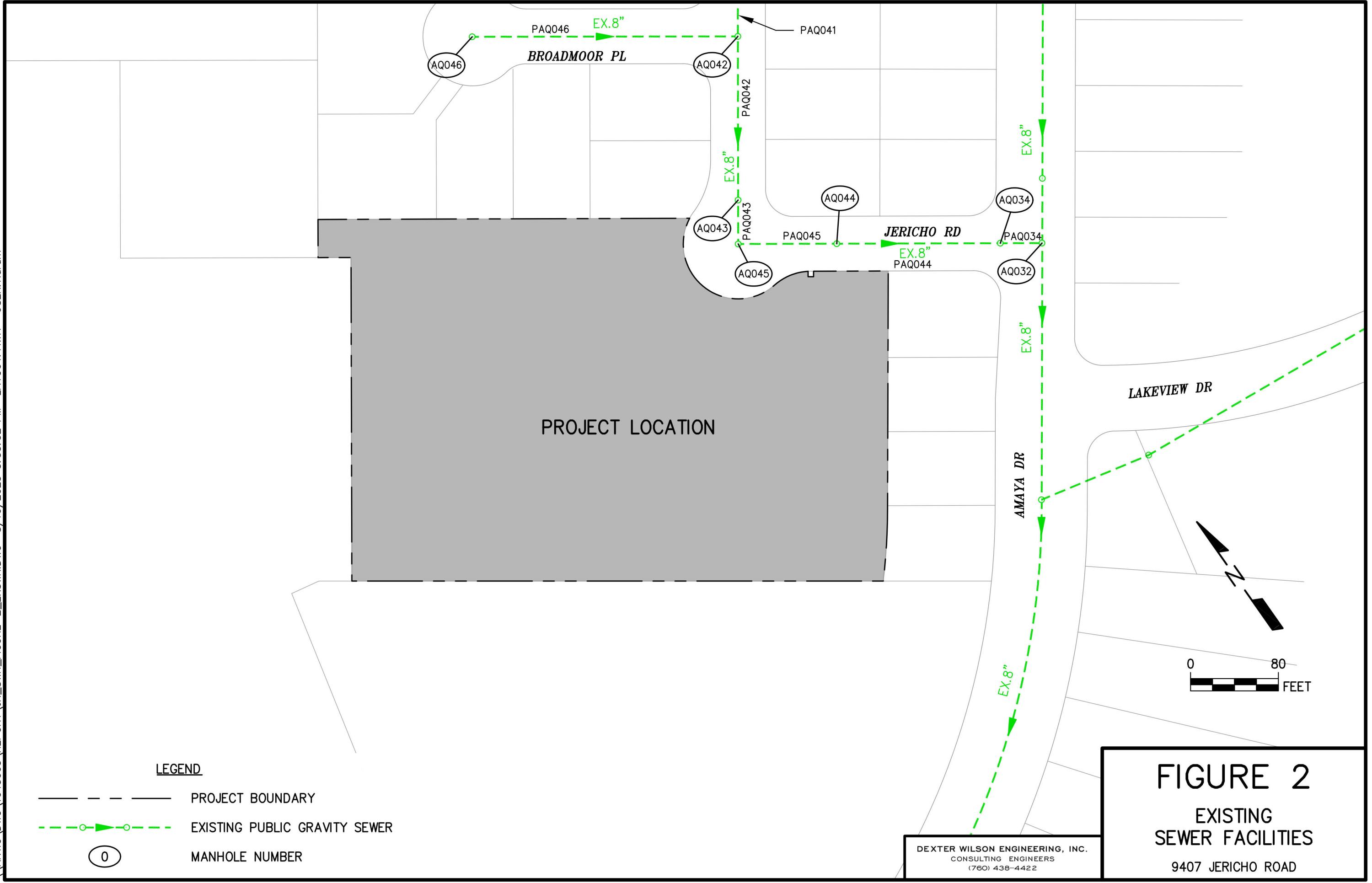
The existing gravity sewer line that is adjacent to the project site is an 8-inch diameter gravity in Jericho Road; this sewer line flows southeast to another existing 8-inch diameter gravity sewer line in Anaya Drive.

Figure 2 presents the existing public sewer facilities within the project area. Appendix B provides the As-Built Drawings.

Existing Sewer Flows. The sewer system analysis for the 9407 Jericho Road project will need to take into account sewage flows from existing development that is upstream of the project. Table 2 summarizes the projected sewage flows from existing development.

TABLE 2 EXISTING SEWER FLOWS TRIBUTARY TO JERICHO ROAD	
Sewer Line	Average Sewage Flow ¹
PAQ046	2,160 gpd
PAQ041	810 gpd
PAQ042	1,080 gpd
PAQ043	0 gpd
PAQ045	1,728 gpd
PAQ044	270 gpd
PAQ034	0 gpd
Total Average Flow	6,048 gpd
Total Peak Flow	16,832 gpd

¹ Per City Master Plan



Proposed Sewer Facilities

The projected sewer flow from the 9407 Jericho Road project is based on 73 townhome units and an average generation rate of 180 gpd per multi-family unit. Table 3 provides the summary of projected sewage flows for the project.

TABLE 3
9407 JERICHO ROAD
PROJECTED SEWAGE FLOWS

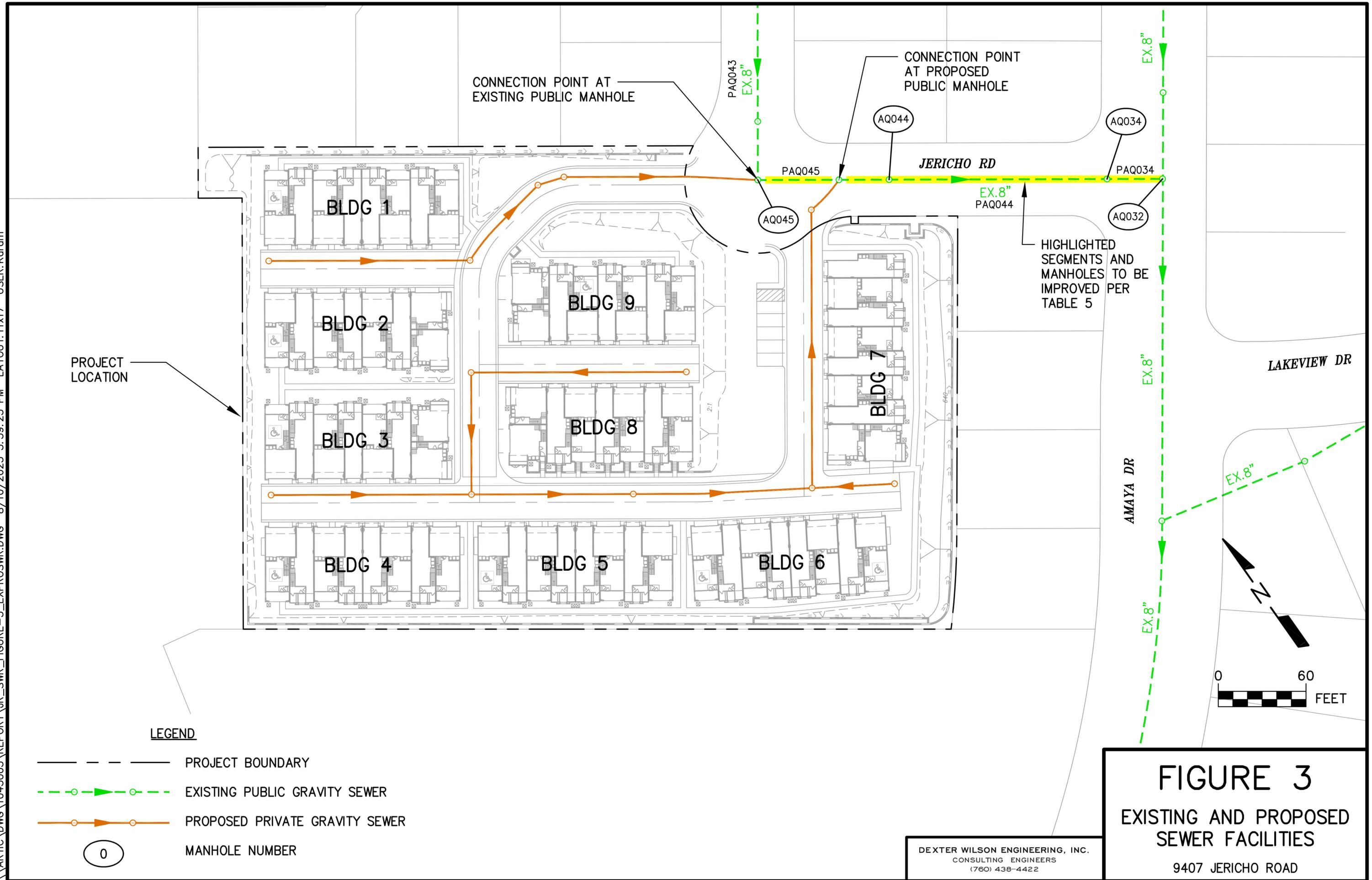
Description	Quantity	Generation Factor	Average Sewage Flow	Peak Sewage Flow ¹
Multi-Family Residential	73 DUs	180 gpd/DU	13,140 gpd (9 gpm)	33,292 gpd (23 gpm)

The project will construct a new private gravity collection system onsite that will all flow to two manholes in Jericho Road. Figure 3 presents the proposed sewer facilities for the proposed project.

Sewer System Capacity Analysis

To analyze the impact of the 9407 Jericho Road project on the existing sewer system, a hydraulic analysis was conducted up to the existing 8-inch sewer line in Amaya Drive per direction from the City.

Appendix C provides the hydraulic analysis output and Exhibit A provides the corresponding Sewer Manhole Diagram. To perform this analysis, we obtained As-Built Drawings of the existing sewer system so that the pipe sizes and slopes could be input into the spreadsheet. A key component of the hydraulic analysis is to estimate existing flows within the sewer lines that will be utilized to serve the 9407 Jericho Road project. Table 2 provided the summary of existing flows from existing offsite tributary development.



Sewer System Capacity Analysis Results

Appendix C presents the results of the hydraulic analysis for the 9407 Jericho Road project. The results indicate that the existing downstream system has adequate capacity to serve the project. With the additional sewer flow from the 9407 Jericho Road project, all sections of the existing 8-inch sewer lines will flow at, or less than, a 0.14 d/D ratio during peak flow conditions.

A summary of the impacts to the existing downstream gravity sewer by the proposed 9407 Jericho Road project is shown below in Table 4.

TABLE 4 9407 JERICHO ROAD PROJECT EXISTING DOWNSTREAM SEWER IMPACTS				
Existing Downstream Sewer Section	Maximum d/D Ratio		Minimum Velocity, fps	
	Existing Flow	Existing plus Project Flow	Existing Flow	Existing plus Project Flow
8-inch Diameter	0.08	0.14	2.0	2.4

Sewer System Condition Assessment

As requested by the City, a condition assessment of the existing offsite sewer facilities was conducted in Jericho Road from Manhole AQ045.00 downstream to Manhole AQ032.00. The inspection was conducted in July 2023 by San Diego Stormwater Solutions and included approximately 275 feet of 8-inch gravity sewer pipeline and four manholes. Dexter Wilson Engineering, Inc. evaluated the reports, pictures, and videos provided by San Diego Stormwater Solutions to determine whether improvements to the system are necessary. The resulting recommendations of improvements are summarized in Table 5 below. The inspection reports and pictures as received from San Diego Stormwater Solutions are provided in Appendix D; the CCTV videos can be made available to the City upon request.

TABLE 5
JERICHO ROAD GRAVITY SEWER INSPECTION RESULTS

COMPONENT	LENGTH	INSPECTION SUMMARY	DWEI RECOMMENDATIONS
Manhole AQ045.00	--	Manhole Sound.	None.
Pipeline AQ045.00 to AQ044.00	~90 feet	No Mainline Structural Defects.	Clean as part of routine City efforts.
Manhole AQ044.00	--	Manhole Sound.	None.
Pipeline AQ044.00 to AQ034.00	~152 feet	No Mainline Structural Defects.	Clean as part of routine City efforts.
Manhole AQ034.00	--	Manhole Sound. Frame offset.	Reset frame.
Pipeline AQ034.00 to AQ032.00	~34 feet	No Mainline Structural Defects.	Clean as part of routine City efforts.
Manhole AQ032.00	--	Manhole Sound. Some aggregate exposed.	Line Manhole per Greenbook.

Conclusions and Recommendations

The following conclusions have been made related to providing sewer service to the 9407 Jericho Road project.

1. The 73-unit 9407 Jericho Road project can receive sewer service by making two connections to the existing public 8-inch diameter gravity sewer line.
2. The development of the project is projected to result in an average sewage flow of 13,140 gpd.
3. The project will construct a private sewer collection system onsite. The onsite private collection system will convey flows via gravity to the existing sewer in Jericho Road.
4. A sewer system capacity analysis was conducted (see Appendix C) and indicates that all existing downstream sewer lines in the study area have adequate capacity to convey peak flows from existing development plus the 9407 Jericho Road project while maintaining the City required depth-to-diameter ratio of less than 0.50 d/D.

Johanna Crooker
August 10, 2023
Sewer System Analysis for 9407 Jericho Road Project

5. Offsite sewer capacity improvements are not required for the 9407 Jericho Road project.
6. Existing offsite sewer integrity improvements are recommended and summarized in Table 5.
7. Figure 3 presents the proposed sewer system for the project.
8. The proposed private onsite gravity sewer system will be designed according to the California Plumbing Code and/or City of La Mesa design standards to comply with all design criteria (depth, velocity, minimum slope, etc.). Proposed sewer lines for the project are recommended to be SDR-35 PVC.

Thank you for the opportunity to assist you with the sewer system planning for the 9407 Jericho Road project. If you have any questions regarding the information and conclusions presented in this report, please do not hesitate to call.

Dexter Wilson Engineering, Inc.



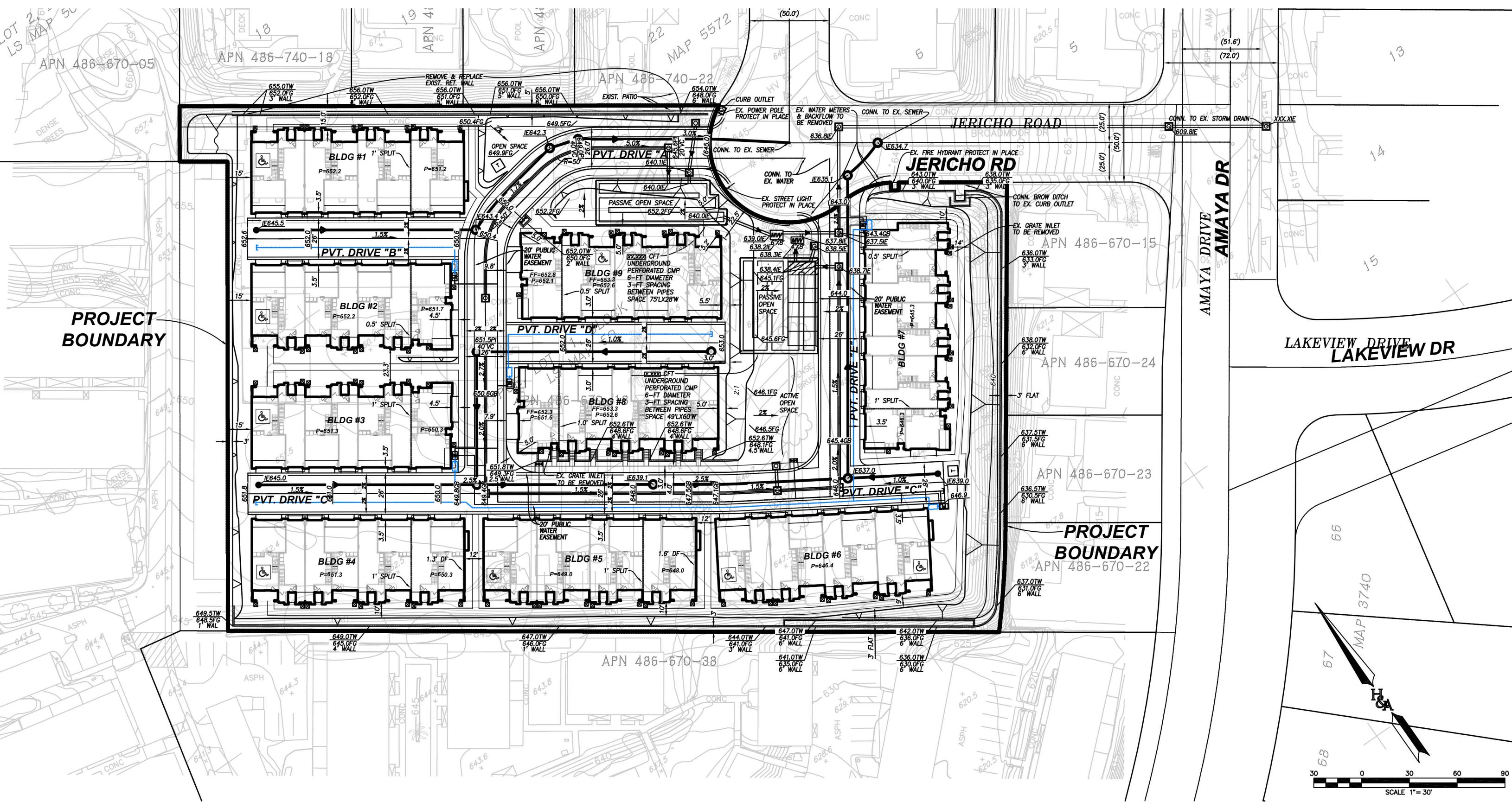
Steven Henderson, P.E.

Attachments

SH:NF:ah

APPENDIX A

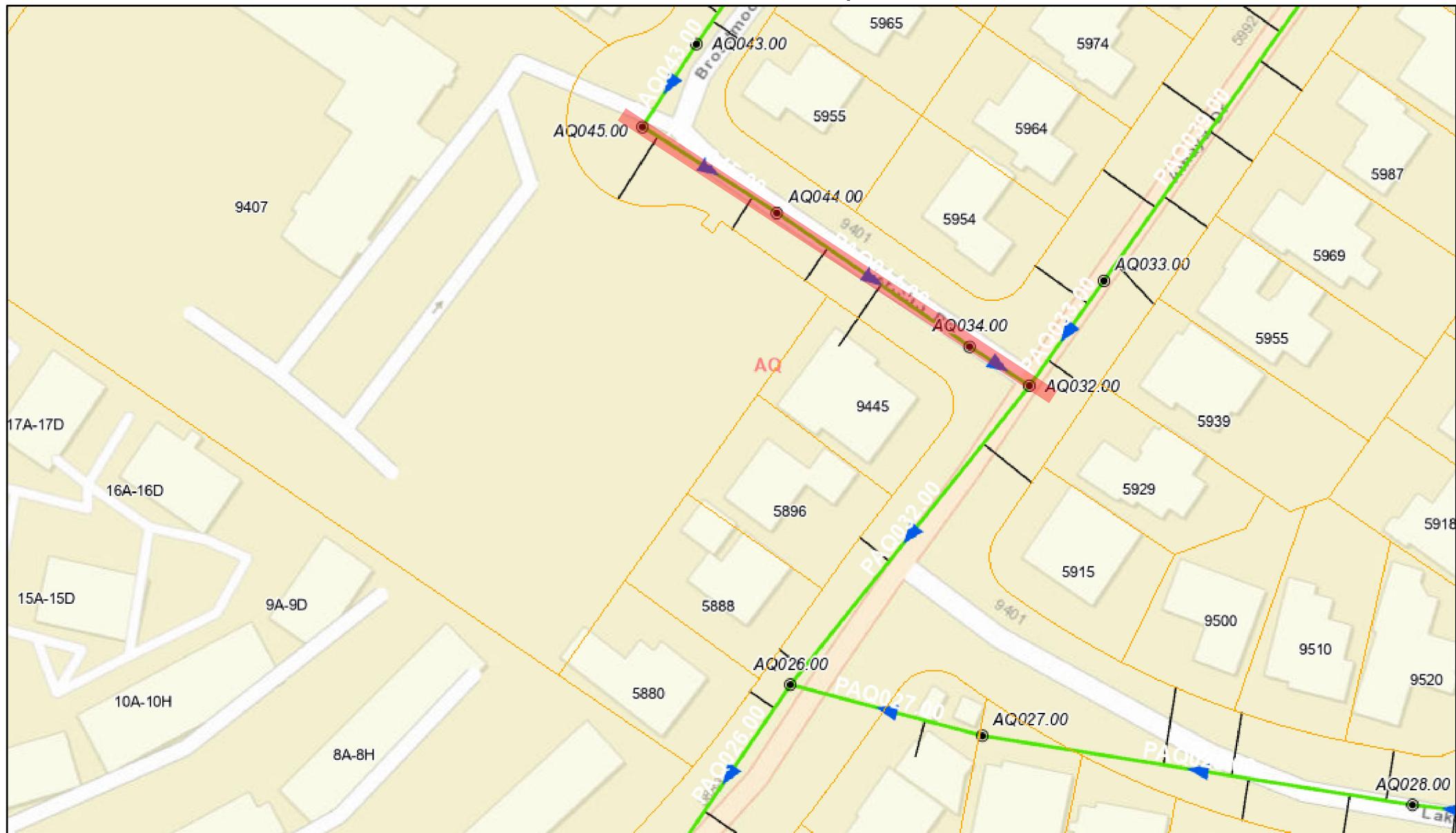
PRELIMINARY SITE PLAN



APPENDIX B

**CITY OF LA MESA DESIGN CRITERIA, BASE MAPS,
AND AS-BUILT DRAWINGS**

La Mesa Web Map



4/14/2023, 8:16:27 AM

1:1,128

0 0.01 0.01 0.03 0.03 mi

0 0.01 0.01 0.03 0.05 km

 City Boundary

Manhole Label

Sewer Pipe

 Parcels

Lateral

Active, City of La Mesa; Active, <Null>

Address Labels

 Sewer Basin

Manhole

● Standard, Active

City of El Cajon, SanGIS, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS

Web AppBuilder for ArcGIS
City of El Cajon, SanGIS, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS | City of La Mesa

CITY OF LA MESA

WASTEWATER COLLECTION SYSTEM

MASTER PLAN

October 2008

Prepared For:



**City of La Mesa
8130 Allison Avenue
La Mesa, CA 91941**

Prepared By:



**9275 Sky Park Court, Suite 200
San Diego, CA 92123
858.874.1810**

PBS&J Project No.: 491261

Dean Gipson, P.E.

Mark B. Elliott, P.E.

Executive Summary

**Table ES-2
SSMP Elements**

Mandatory SSMP Elements	Elements in the Master Plan	Elements to be Completed
(i) Goals		X
(ii) Organization		X
(iii) Legal Authority	X	
(iv) Operations & Maintenance Program		X
(v) Design and Performance Provisions	X	
(vi) Overflow Emergency Response Plan	X	
(vii) Fats, Oils, and Grease Control Program	X	
(viii) System Evaluation and Capacity Assurance Plan	X	
(ix) Monitoring, Measurement, and Plan Modifications		X
(x) SSMP Program Audits		X
(xi) Communication Program		X

Wastewater Generation Projections

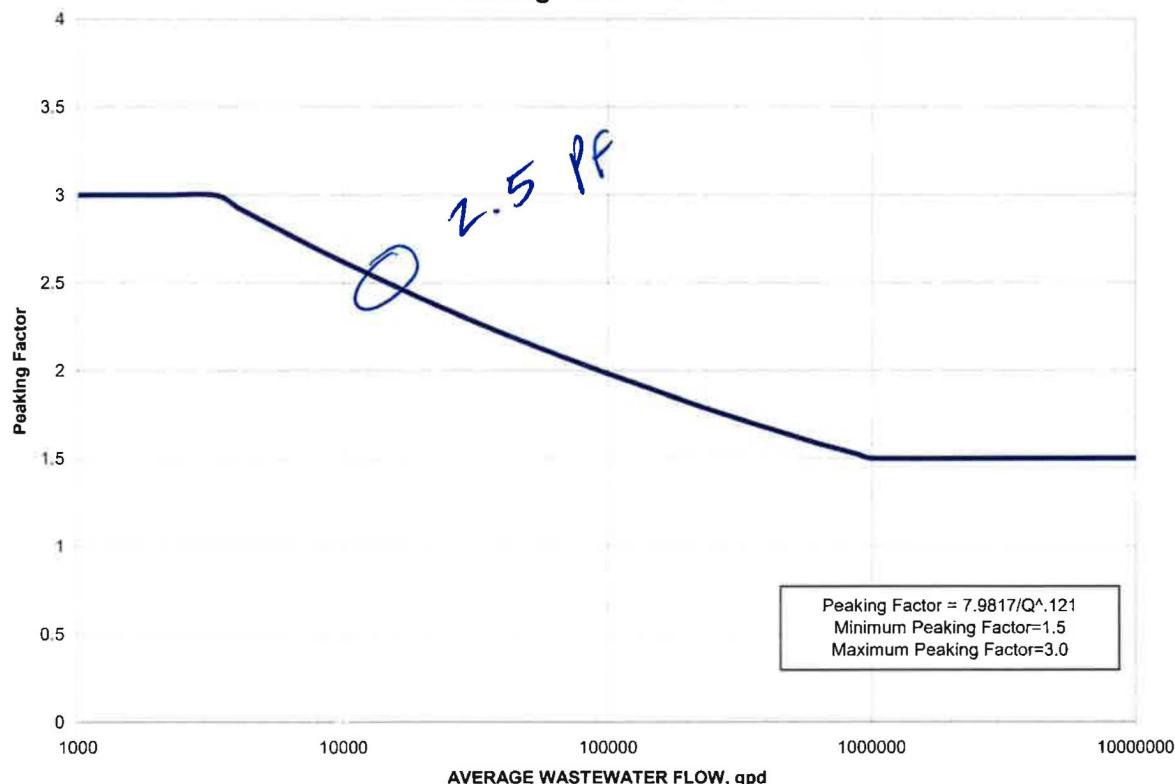
Unit wastewater generation rates were developed using two sources: 1) the City's current land use data; and 2) population projections compiled by SANDAG (Series 7), by comparison to the City's Metro flow meters at seven (7) locations. Table ES-3 summarizes the recommended unit generation rates for estimating future wastewater flows.

**Table ES-3
Recommended Unit Wastewater Generation Rate**

Land Use / Population	Recommended Unit Generation Rate
Land Use	
Single-Family Residential	270 gpd/DU
Multi-Family Residential	180 gpd/DU
Commercial	500 gpd/AC
Industrial	500 gpd/AC
Institutional	500 gpd/AC
Population	
Single-Family Residential	90 gpdc
Multi-Family Residential	15 gpdc

X 77
 13860 gpd
 + 2.5
34,650 gpd

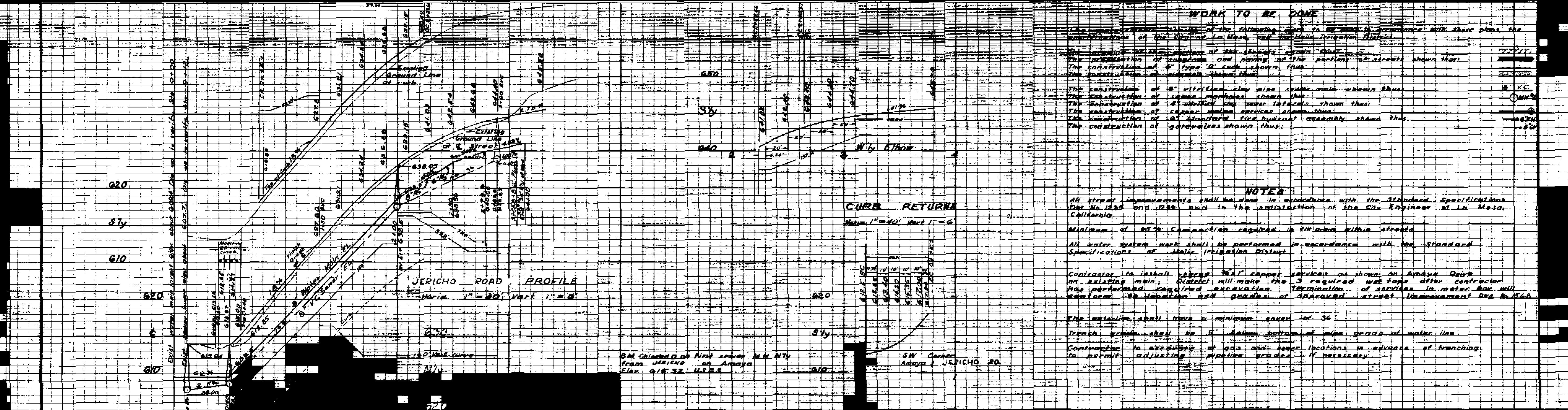
Figure 4-2
Peaking Factor Curve



4.4 Inflow and Infiltration

Infiltration is water that enters sewers from the ground through such means as defective pipes, pipe joints, connections, and manhole walls. Inflow is water that enters the sewer through roof, yard, and other drains (usually illicit connections), cross connections with storm drains, and manhole covers. Depending on the local groundwater and soil conditions, infiltration into the sewer system may occur for relatively long periods following rainfall events as water percolates through the soil. In some instances, high water tables may result in a constant base flow comprised of groundwater that has infiltrated into the system. Inflow is usually directly associated with rainfall events, and may result in large, rapid flow increases or "spikes" in the collection system.

An assessment of inflow and infiltration in the City's collection system was made by comparing flow records collected at Metro metering sites between the months of September, 2005 and February, 2007. As shown in Figure 4-3, these months are representative of dry weather and wet weather conditions within the City. The metering period in February included a large storm event that occurred on February 19, 2007 with total precipitation recorded at the City of La Mesa, of 0.91 inch over six hours and 1.85 inches over 24 hours. These readings are slightly lower than the two-year design storms for San Diego County.



HELIX IRRIGATION DISTRICT
Approved *[Signature]* RE 9695
Chief Engineer

Date 3/8/60
Subject to Revision in 90 days.



IMPROVEMENT PLANS FOR JERICHO ROAD
PORTION OF LOT II, BLOCK 30, EL CAJON HEIGHTS MAP NO. 593

CITY OF LA MESA ENGINEERING DEPARTMENT			SHEET 1 OF 1 SHEETS	W.O. NO.
PLAN REVISION				
CHANGE	BY	DATE	APPROVAL	<i>Lane P. Hall</i> 5-4-60
AS BUILT	T.C.	1-27-61	CITY ENGINEER APPROVALS FOR	AS & CITY ENGINEER AND OFFICE ENGINEER
			WATER DEPT	SEWERAGE
			PLANNING DEPT	SUPERVISOR
			CONSTRUCTION RECORD	CHECKED
			ELECTRICAL	DESIGNED
			STRUCTURAL	1750
DATE STARTED	DATE COMPLETED		TRAFFIC	
CONTR.	INSP.			

APPENDIX C

SEWER SYSTEM CAPACITY ANALYSIS RESULTS

The following conditions were modeled for the 9407 Jericho Road Project:

1. Existing Flows
 2. Existing Plus Project Flows
- Exhibit A – Manhole Diagram

DATE: 8/10/2023

JOB NUMBER: 1043-003

SEWER STUDY SUMMARY

FOR: 9407 Jericho Road Project City of La Mesa, Existing Flow in Jericho Road
 BY: Dexter Wilson Engineering, Inc.

SHT 1 OF 2
 REFER TO PLAN SHEET: EXHIBIT A

FROM	TO	LINE	IN-LINE FLOW	AVG. DRY WEATHER FLOW (gpd)	PEAKING FACTOR	PEAK FLOW (gpd)	COMBINED PEAK FLOW (DESIGN FLOW)		LINE SIZE (inches)	AS-BUILT SLOPE (%)	DEPTH K ⁽¹⁾	dn (feet)	dn/D ⁽²⁾	C _a for Velocity ⁽³⁾	VELOCITY (f.p.s.)	COMMENTS
							M.G.D.	C.F.S.								
AQ043	AQ045	PAQ043	4,050	4,050	2.92	11,832	0.012	0.018	8	1.00	0.007017	0.06000	0.09	0.0350	1.18	
AQ045	AQ044	PAQ045	1,728	5,778	2.80	16,170	0.016	0.025	8	7.16	0.003584	0.04000	0.06	0.0192	2.93	
AQ044	AQ034	PAQ044	270	6,048	2.78	16,832	0.017	0.026	8	16.00	0.002496	0.03333	0.05	0.0147	3.99	
AQ034	AQ032	PAQ034	0	6,048	2.78	16,832	0.017	0.026	8	2.11	0.006872	0.05333	0.08	0.0294	1.99	

JOB NUMBER: 1043-003

FOR: 9407 Jericho Road Project City of La Mesa, Existing plus Project Flow in Jericho Road
 BY: Dexter Wilson Engineering, Inc.

SHT 2 OF 2
 REFER TO PLAN SHEET: EXHIBIT A

FROM	TO	LINE	IN-LINE FLOW	AVG. DRY WEATHER FLOW (gpd)	PDWF PEAKING FACTOR	PDWF (gpd)	COMBINED PEAK FLOW (DESIGN FLOW)		LINE SIZE (inches)	DESIGN SLOPE (%)	DEPTH K ⁽¹⁾	dn (feet)	dn/D ⁽²⁾	C _a for Velocity ⁽³⁾	VELOCITY (f.p.s.)	COMMENTS
							M.G.D.	C.F.S.								
AQ043	AQ045	PAQ043	4,050	4,050	2.92	11,832	0.012	0.018	8	1.00	0.007017	0.06000	0.09	0.0350	1.18	
AQ045	AQ044	PAQ045	14,868	18,918	2.42	45,864	0.046	0.071	8	7.16	0.010165	0.06667	0.10	0.0409	3.90	Project P.O.C.
AQ044	AQ034	PAQ044	270	19,188	2.42	46,439	0.046	0.072	8	16.00	0.006885	0.06000	0.09	0.0350	4.62	
AQ034	AQ032	PAQ034	0	19,188	2.42	46,439	0.046	0.072	8	2.11	0.018960	0.09333	0.14	0.0668	2.42	

1 K' based on n = 0.013

2 dn/D using K' in Brater King Table 7-14

3 From Brater King Table 7-4 based on dn/D

PROJECT
LOCATION

CONNECTION POINT
AT
EXISTING PUBLIC MANHOLE

PAQ043
EX.8"

CONNECTION POINT
AT PROPOSED
PUBLIC MANHOLE

AQ044

JERICHO RD

AQ045

PAQ045

EX.8"

PAQ044

EX.8"

AQ034

AQ032

PAQ034

EX.8"

LAKEVIEW DR

AMAYA DR

EX.8"

EX.8"

EX.8"

0 60 FEET

LEGEND

— - - PROJECT BOUNDARY

- - - EXISTING PUBLIC GRAVITY SEWER

— - - PROPOSED PRIVATE GRAVITY SEWER

0

MANHOLE NUMBER

DEXTER WILSON ENGINEERING, INC.
CONSULTING ENGINEERS
(760) 438-4422

EXHIBIT A

MANHOLE DIAGRAM

9407 JERICHO ROAD

APPENDIX D

SEWER SYSTEM CONDITION ASSESSMENT

MANHOLE INSPECTIONS

**Project**

Surveyed By	Jason Bingham	Certificate Number	U-0417-07007758
Date / Time	7/3/2023 14:59	Owner	
Customer		Sheet Number	
PO Number		Is Imperial	True
Purpose	Sewer System Evaluation Survey		

Comments**Manhole**

Inspection Status	Surface Inspection	Drainage Area	
Manhole Number	AQ045	Manhole Use	Sanitary
Weather (Ground Conditions)		Street	Jericho Rd
City	La Mesa	Location Details	
Location Code	Local Rural Streets - Light traffic, town and city back streets, estate streets and curbside parking areas		
Additional Info			

Manhole 2

Rim To Invert	Grade To Invert
Rim To Grade	Year Constructed
Year Renewed	Pre-Cleaning
Date Cleaned	Evidence of Surcharge No
Additional Component Information	Media Label

Surface / Steps

Surface Type Asphalt	No	Surface Type Concrete	Yes
Surface Type Concrete	No	Surface Type Grass	No
Collar		Dirt	
Surface Type Gravel	No	Surface Type Other	No
Inflow Potential For Runoff	Ponding	Access Type	Manhole
Step Number	2	Step Material	Metal

Cover 1

Cover Shape	Cover Size
Cover Material	Cover Type Solid No

Cover Type Vented	No	Cover Type Gasketed	No
Cover Type Bolted	No	Cover Type Inner Cover	No
Cover Type Locking	No	Cover Size Width	

Cover 2

Cover Bearing Surface Diameter		Cover Frame Fit	
Cover Condition Sound	Yes	Cover Condition Cracked	No
Cover Condition Broken	No	Cover Condition Corroded	No
Cover Condition Bolts Missing	No	Cover Condition Missing	No
Cover Insert Type	None	Cover Bearing Surface Width	

Hole / Insert

Hole Diameter		Hole Number	0
Insert Condition Sound	No	Insert Condition Poorly Fitting	No
Insert Condition Cracked	No	Insert Condition Leaking	No
Insert Condition Insert Fell	No	Insert Condition Corroded	No

Ring

Adjustment Ring Type	None	Adjustment Ring Height	
Ring Condition Sound	No	Ring Condition Cracked	No
Ring Condition Broken	No	Ring Condition Corroded	No
Ring Condition Leaking	No	Ring Condition Poor Install	No
Adjustment Ring Material			

Frame

Frame Material		Frame Bearing Surface Width	
Frame Bearing Surface Depth		Frame Clear Open Diameter	
Frame Condition Sound	Yes	Frame Condition Cracked	No
Frame Condition Broken	No	Frame Condition Missing	No

Frame Condition	No	Frame Condition	No
Corroded		Coated	
Frame / Seal			
Frame Offset Distance		Frame Seal Inflow	
Frame Depth	0	Seal Condition Sound	No
Seal Condition		Seal Condition Loose	No
Cracked		Seal Condition Missing	No
Seal Condition Offset	No	Frame Clear Open Width	
Chimney			
Chimney Material 1		Chimney Material 2	
Chimney Ini		Chimney Clear Opening	
Chimney Depth		Chimney Lining Interior	
Chimney Lining		Chimney Present	
Exterior			
Chimney Condition	Sound	Cone	
Cone Type		Cone Material	
Cone Depth		Cone Lining Interior	
Cone Lining Exterior		Cone Condition	Sound
Wall			
Wall Diameter	0	Wall By Size	0
Wall Material		Wall Depth	
Wall Lining Interior		Wall Lining Exterior	
Wall Condition	Sound		
Bench / Channel			
Bench Present		Bench Material	
Bench Lining		Channel Installed	
Channel Material		Channel Type	
Channel Exposure		Work Order	
Project		Custom	
Custom 1		Custom 2	
Custom 3		Custom 4	
Custom 5		Custom 6	
Custom 7		Custom 8	

Custom 9

Cover Type Hatch No
Single

Cover Type Lamphole No

Cover Condition
Restraint Defective No

Center Cover Size

Custom 10**Cover 3**

Cover Type Hatch No
Double

Cover Type
Removable Center No

Cover Condition
Restraint Missing No

QA / QC

Reviewed By

Bench Condition Sound

Reviewer Certificate
Number

Consequence of
Failure

Rim to Grade Exposed

Channel Condition Sound

Created with the  report generator

MANHOLE AQ045



Scanned with CamScanner



Scanned with CamScanner

CS Scanned with CamScanner

**Project**

Surveyed By	Jason Bingham	Certificate Number	U-0417-07007758
Date / Time	7/3/2023 14:59	Owner	
Customer		Sheet Number	
PO Number		Is Imperial	True
Purpose	Sewer System Evaluation Survey		

Comments**Manhole**

Inspection Status	Surface Inspection	Drainage Area	
Manhole Number	AQ044	Manhole Use	Sanitary
Weather (Ground Conditions)		Street	Jericho Rd
City	La Mesa	Location Details	
Location Code	Local Rural Streets - Light traffic, town and city back streets, estate streets and curbside parking areas		
Additional Info			

Manhole 2

Rim To Invert	Grade To Invert
Rim To Grade	Year Constructed
Year Renewed	Pre-Cleaning
Date Cleaned	Evidence of Surcharge No
Additional Component Information	Media Label

Surface / Steps

Surface Type Asphalt	No	Surface Type Concrete	Yes
Surface Type Concrete	No	Surface Type Grass	No
Collar		Dirt	
Surface Type Gravel	No	Surface Type Other	No
Inflow Potential For Runoff	Ponding	Access Type	Manhole
Step Number	2	Step Material	Metal

Cover 1

Cover Shape	Cover Size
Cover Material	Cover Type Solid No

Cover Type Vented	No	Cover Type Gasketed	No
Cover Type Bolted	No	Cover Type Inner Cover	No
Cover Type Locking	No	Cover Size Width	

Cover 2

Cover Bearing Surface Diameter		Cover Frame Fit	
Cover Condition Sound	Yes	Cover Condition Cracked	No
Cover Condition Broken	No	Cover Condition Corroded	No
Cover Condition Bolts Missing	No	Cover Condition Missing	No
Cover Insert Type	None	Cover Bearing Surface Width	

Hole / Insert

Hole Diameter		Hole Number	0
Insert Condition Sound	No	Insert Condition Poorly Fitting	No
Insert Condition Cracked	No	Insert Condition Leaking	No
Insert Condition Insert Fell	No	Insert Condition Corroded	No

Ring

Adjustment Ring Type	None	Adjustment Ring Height	
Ring Condition Sound	No	Ring Condition Cracked	No
Ring Condition Broken	No	Ring Condition Corroded	No
Ring Condition Leaking	No	Ring Condition Poor Install	No
Adjustment Ring Material			

Frame

Frame Material		Frame Bearing Surface Width	
Frame Bearing Surface Depth		Frame Clear Open Diameter	
Frame Condition Sound	Yes	Frame Condition Cracked	No
Frame Condition Broken	No	Frame Condition Missing	No

Frame Condition	No	Frame Condition	No
Corroded		Coated	

Frame / Seal

Frame Offset Distance		Frame Seal Inflow	
Frame Depth	0	Seal Condition Sound	No
Seal Condition		Seal Condition Loose	No
Cracked			
Seal Condition Offset	No	Seal Condition Missing	No
		Frame Clear Open	
		Width	

Chimney

Chimney Material 1		Chimney Material 2	
Chimney Ini		Chimney Clear	
Chimney Depth		Opening	
Chimney Lining		Chimney Lining	
Exterior		Interior	
Chimney Condition	Sound	Chimney Present	

Cone

Cone Type		Cone Material	
Cone Depth		Cone Lining Interior	
Cone Lining Exterior		Cone Condition	Sound

Wall

Wall Diameter	0	Wall By Size	0
Wall Material		Wall Depth	
Wall Lining Interior		Wall Lining Exterior	
Wall Condition	Sound		

Bench / Channel

Bench Present		Bench Material	
Bench Lining		Channel Installed	
Channel Material		Channel Type	
Channel Exposure		Work Order	
Project			

Custom

Custom 1		Custom 2	
Custom 3		Custom 4	
Custom 5		Custom 6	
Custom 7		Custom 8	

Custom 9

Cover Type Hatch No
Single

Cover Type Lamphole No

Cover Condition
Restraint Defective No

Center Cover Size

Custom 10**Cover 3**

Cover Type Hatch No
Double

Cover Type
Removable Center No

Cover Condition
Restraint Missing No

QA / QC

Reviewed By

Bench Condition Sound

Reviewer Certificate
Number

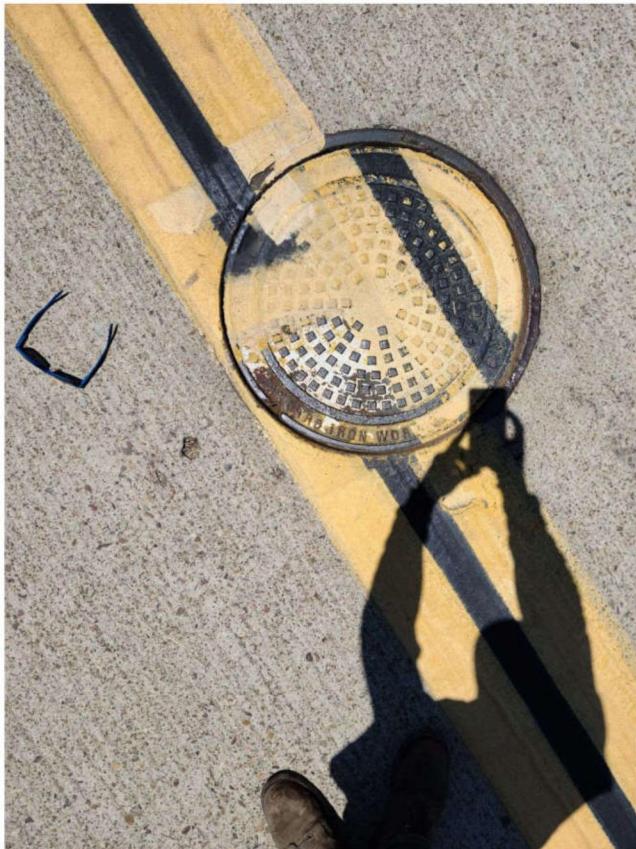
Consequence of
Failure

Rim to Grade Exposed

Channel Condition Sound

Created with the  report generator

MANHOLE AQ044



CS Scanned with CamScanner



CS Scanned with CamScanner



CS Scanned with CamScanner

**Project**

Surveyed By	Jason Bingham	Certificate Number	U-0417-07007758
Date / Time	7/3/2023 14:59	Owner	
Customer		Sheet Number	
PO Number		Is Imperial	True
Purpose	Sewer System Evaluation Survey		

Comments**Manhole**

Inspection Status	Surface Inspection	Drainage Area	
Manhole Number	AQ034	Manhole Use	Sanitary
Weather (Ground Conditions)		Street	Jericho Rd
City	La Mesa	Location Details	
	Local Rural Streets - Light traffic, town and city back streets, estate streets and curbside parking areas	Additional Info	Start of Chimney is offset from frame opening.

Manhole 2

Rim To Invert		Grade To Invert	
Rim To Grade		Year Constructed	
Year Renewed		Pre-Cleaning	
Date Cleaned		Evidence of Surcharge	No
Additional Component Information	Media Label		

Surface / Steps

Surface Type Asphalt	No	Surface Type Concrete Pavement	Yes
Surface Type Concrete Collar	No	Surface Type Grass	No
Surface Type Gravel	No	Surface Type Other	No
Inflow Potential For Runoff	Ponding	Access Type	Manhole
Step Number	3	Step Material	Metal

Cover 1

Cover Shape		Cover Size	
Cover Material		Cover Type Solid	No
Cover Type Vented	No	Cover Type Gasketed	No
Cover Type Bolted	No	Cover Type Inner Cover	No
Cover Type Locking	No	Cover Size Width	

Cover 2

MANHOLE AQ034

Cover Bearing		Cover Frame Fit	
Surface Diameter			
Cover Condition Sound	Yes	Cover Condition Cracked	No
Cover Condition Broken	No	Cover Condition Corroded	No
Cover Condition Bolts Missing	No	Cover Condition Missing	No
Cover Insert Type	None	Cover Bearing Surface Width	

Hole / Insert

Hole Diameter		Hole Number	0
Insert Condition Sound	No	Insert Condition Poorly Fitting	No
Insert Condition Cracked	No	Insert Condition Leaking	No
Insert Condition Insert Fell	No	Insert Condition Corroded	No

Ring

Adjustment Ring Type	None	Adjustment Ring Height	
Ring Condition Sound	No	Ring Condition Cracked	No
Ring Condition Broken	No	Ring Condition Corroded	No
Ring Condition Leaking	No	Ring Condition Poor Install	No
Adjustment Ring Material			

Frame

Frame Material		Frame Bearing Surface Width	
Frame Bearing Surface Depth		Frame Clear Open Diameter	
Frame Condition Sound	Yes	Frame Condition Cracked	No
Frame Condition Broken	No	Frame Condition Missing	No
Frame Condition Corroded	No	Frame Condition Coated	No

Frame / Seal

Frame Offset Distance		Frame Seal Inflow	
Frame Depth	0	Seal Condition Sound	No
Seal Condition Cracked	No	Seal Condition Loose	No
Seal Condition Offset	No	Seal Condition Missing	No
		Frame Clear Open Width	

Chimney

MANHOLE AQ034

Chimney Material 1	Chimney Material 2
Chimney Ini	Chimney Clear
Chimney Depth	Opening
Chimney Lining	Chimney Lining
Exterior	Interior
Chimney Condition	Chimney Present

Cone	
Cone Type	Cone Material
Cone Depth	Cone Lining Interior
Cone Lining Exterior	Cone Condition
	Sound

Wall	
Wall Diameter	0
Wall Material	Wall By Size
Wall Lining Interior	Wall Depth
Wall Condition	Wall Lining Exterior
	Sound

Bench / Channel	
Bench Present	Bench Material
Bench Lining	Channel Installed
Channel Material	Channel Type
Channel Exposure	Work Order
Project	

Custom	
Custom 1	Custom 2
Custom 3	Custom 4
Custom 5	Custom 6
Custom 7	Custom 8
Custom 9	Custom 10

Cover 3	
Cover Type Hatch Single	No
Cover Type Lamphole No	Cover Type Hatch Double
	Removable Center
	Cover Condition
	Restraint Missing
Cover Condition	No
Restraint Defective	
Center Cover Size	

Reviewed By**Reviewer Certificate****Number****Consequence of
Failure****Rim to Grade****Exposed****Channel Condition**

Sound

Bench Condition

Sound

Created with the



report generator



**Project**

Surveyed By	Jason Bingham	Certificate Number	U-0417-07007758
Date / Time	7/3/2023 14:59	Owner	
Customer		Sheet Number	
PO Number		Is Imperial	True
Purpose	Sewer System Evaluation Survey		

Comments**Manhole**

Inspection Status	Surface Inspection	Drainage Area	
Manhole Number	AQ032	Manhole Use	Sanitary
Weather (Ground Conditions)		Street	Jericho Rd
City	La Mesa	Location Details	
Location Code	Local Rural Streets - Light traffic, town and city back streets, estate streets and curbside parking areas		
Additional Info			

Manhole 2

Rim To Invert	Grade To Invert
Rim To Grade	Year Constructed
Year Renewed	Pre-Cleaning
Date Cleaned	Evidence of Surcharge No
Additional Component Information	Media Label

Surface / Steps

Surface Type Asphalt	Yes	Surface Type Concrete	No
Surface Type Concrete	No	Pavement	
Collar		Surface Type Grass	No
Surface Type Gravel	No	Dirt	
Inflow Potential For Runoff	Ponding	Surface Type Other	No
Step Number	3	Access Type	Manhole
		Step Material	Metal

Cover 1

Cover Shape	Cover Size
Cover Material	Cover Type Solid No

Cover Type Vented	No	Cover Type Gasketed	No
Cover Type Bolted	No	Cover Type Inner Cover	No
Cover Type Locking	No	Cover Size Width	

Cover 2

Cover Bearing Surface Diameter		Cover Frame Fit	
Cover Condition Sound	Yes	Cover Condition Cracked	No
Cover Condition Broken	No	Cover Condition Corroded	No
Cover Condition Bolts Missing	No	Cover Condition Missing	No
Cover Insert Type	None	Cover Bearing Surface Width	

Hole / Insert

Hole Diameter		Hole Number	0
Insert Condition Sound	No	Insert Condition Poorly Fitting	No
Insert Condition Cracked	No	Insert Condition Leaking	No
Insert Condition Insert Fell	No	Insert Condition Corroded	No

Ring

Adjustment Ring Type	None	Adjustment Ring Height	
Ring Condition Sound	No	Ring Condition Cracked	No
Ring Condition Broken	No	Ring Condition Corroded	No
Ring Condition Leaking	No	Ring Condition Poor Install	No
Adjustment Ring Material			

Frame

Frame Material		Frame Bearing Surface Width	
Frame Bearing Surface Depth		Frame Clear Open Diameter	
Frame Condition Sound	Yes	Frame Condition Cracked	No
Frame Condition Broken	No	Frame Condition Missing	No

Frame Condition	No	Frame Condition	No
Corroded		Coated	
Frame / Seal			
Frame Offset Distance		Frame Seal Inflow	
Frame Depth	0	Seal Condition Sound	No
Seal Condition		Seal Condition Loose	No
Cracked		Seal Condition Missing	No
Seal Condition Offset	No	Frame Clear Open Width	
Chimney			
Chimney Material 1		Chimney Material 2	
Chimney Ini		Chimney Clear Opening	
Chimney Depth		Chimney Lining Interior	
Chimney Lining		Chimney Present	
Exterior			
Chimney Condition	Sound	Cone	
Cone Type		Cone Material	
Cone Depth		Cone Lining Interior	
Cone Lining Exterior		Cone Condition	Sound
Wall			
Wall Diameter	0	Wall By Size	0
Wall Material		Wall Depth	
Wall Lining Interior		Wall Lining Exterior	
Wall Condition	Sound	Bench / Channel	
Bench Present		Bench Material	
Bench Lining		Channel Installed	
Channel Material		Channel Type	
Channel Exposure		Work Order	
Project		Custom	
Custom 1		Custom 2	
Custom 3		Custom 4	
Custom 5		Custom 6	
Custom 7		Custom 8	

Custom 9

Cover Type Hatch No
Single

Cover Type Lamphole No

Cover Condition
Restraint Defective No

Center Cover Size

Custom 10**Cover 3**

Cover Type Hatch No
Double

Cover Type
Removable Center No

Cover Condition
Restraint Missing No

QA / QC

Reviewed By

Bench Condition Sound

Reviewer Certificate Number

Consequence of Failure

Rim to Grade Exposed

Channel Condition Defective

Created with the  report generator

MANHOLE AQ032



PIPELINE INSPECTIONS



PIPELINE
AQ045-AQ044

Surveyor Name	Jason Bingham	Certificate Number	U-0417-07007758
Owner		Customer	Dexter Wilson Engineering inc.
Drainage Area		PO Number	
Pipe Segment Reference		Date	7/19/2023 11:42
Street	Jericho Rd	City	La Mesa
Comments			
Upstream MH	AQ045	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	AQ044	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Pipe Use	Sanitary Sewage Pipe	Direction of Survey	Downstream
Height (Diameter)	8	Width	
Shape	Circular	Material	Vitrified Clay Pipe
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	86.4
Year Constructed		Year Renewed	
Flow Control		Misc	
Purpose	Sewer System Evaluation Survey (SSES)	Media Label	DVD
Pre-Cleaning	Not Known	Consequence of Failure	
Weather	Dry - No Precipitation During Survey	Date Cleaned	
Additional Info		Location Code	Primary major arterial roads, interstates, numbered roads or town/city center roads for heavy vehicles.
Custom 1		Location Details	
Custom 3		Custom	
Custom 5		Custom 2	
Custom 7		Custom 4	
Custom 9		Custom 6	
		Custom 8	
		Custom 10	
Reverse Setup ID		Project	
Imperial Units (US)	True	Sheet (Group) Number	
Work Order		Pressure Value	
Coating Method		Project	Dexter Wilson Engineering
CCTV	Yes	Completed	Yes
Sidewall	No	Insp Tech Used	
Zoom	No	Laser	No
Reviewed By	Complete Inspection	Sonar	No
		Other	No
Inspection Status	Complete Inspection	Inspection	
Reviewed By		Reviewer Certificate Number	

		Count Groups	
Taps	2	Roots	0
Cracks / Fractures	0	Broken / Holes / Collapse	0
Deposits	0	Obstruction	0
Abandoned Survey	0		

	Scores
Structure Peak Score	0
Structure Peak Grade	1

Structure Mean Score 0
Service Peak Score 3
Service Mean Score 0.03

Structure Mean Grade 1
Service Peak Grade 5.8
Service Mean Grade 1

PIPELINE
AQ045-AQ044

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Project: Dexter Wilson Engineering

Date: 7/19/2023 11:42:00 AM

Street: Jericho Rd

Length Surveyed: 86.4

Run Number:

Height (Diameter): 8

Pipe Segment Reference:

Upstream MH: AQ045

Downstream MH: AQ044

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

Distance	Fault Observation	Time	Picture
0.0	Access Point Manhole Severity: None Remarks: AQ045	00:00:00 00:00:00	
0.0	Miscellaneous Water Level Severity: None Percent: 5	00:00:00 00:00:00	

5.4	<p>Tap Factory Defective Position: 2 Severity: None Size: 4 Remarks: JAM Maint Weight: 3</p>	00:00:00 00:00:00	<p>MM AQ045 7/19/2023 TO Dexter Wilson Engine TPD - Tap Factory Defective Inc: -8.9% v: 0.0ft/min MM AQ044 11:48 Dist: 5.4ft 12 9 3 6 JAM a=""> <=""></p>
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Distance	Fault Observation	Time	Picture
5.4	<p>Picture Number: 2 Tap Factory Defective Position: 2</p>	00:00:00	<p>MM AQ045 7/19/2023 TO Dexter Wilson Engine MM AQ044 11:48 12 9 3 6 v: 0.0ft/min Inc: -7.1% Dist: 5.6ft a=""> <=""></p>

			
5.6	Miscellaneous General Photo Severity: None Remarks: JAM	00:00:00 00:00:00	
78.6	Tap Factory Position: 2 Severity: None Size: 4 Joint	00:00:00 00:00:00	

Distance	Fault Observation	Time	Picture
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86.4	<p>Access Point Manhole Severity: None Remarks: AQ044</p>	00:00:00 00:00:00	 <p><u>a=""></u></p>
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Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	3	3
2	0	0	0
1	0	0	0
Overall	0	3	3
Number of Defects	0	1	1
Pipe Rating	0000	3100	3100
Pipe Ratings Index	0	3	3

Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location		
				Dimension		%		At / From	To	
				1st	2nd					
0	00:00:00	AMH - Access Point Manhole								
AQ045										
0	00:00:00	MWL - Miscellaneous Water Level				5				
5.4	00:00:00	TFD - Tap Factory Defective		4				2		
JAM										
5.6	00:00:00	MGP - Miscellaneous General Photo								
JAM										
78.6	00:00:00	TF - Tap Factory		4			X	2		
86.4	00:00:00	AMH - Access Point Manhole								
AQ044										

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**Project Information**

Surveyor Name	Jason Bingham	Certificate Number	U-0417-07007758
Owner		Customer	Dexter Wilson Engineering inc.
Drainage Area		PO Number	
Pipe Segment Reference		Date	7/19/2023 11:53
Street	Jericho Rd	City	La Mesa
Comments			

Manhole

Upstream MH	AQ044	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	AQ034	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Pipe Use	Sanitary Sewage Pipe	Direction of Survey	Downstream

Pipe

Height (Diameter)	8	Width	
Shape	Circular	Material	Vitrified Clay Pipe
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	149
Year Constructed		Year Renewed	

Misc

Flow Control	Sewer System	Media Label	DVD
Purpose	Evaluation Survey (SSES)	Consequence of Failure	
Pre-Cleaning	Not Known	Date Cleaned	
Weather	Dry - No Precipitation During Survey	Location Code	Primary major arterial roads, interstates, numbered roads or town/city center roads for heavy vehicles.

Additional Info**Location Details****Custom**

Custom 1	Custom 2
Custom 3	Custom 4
Custom 5	Custom 6
Custom 7	Custom 8

Custom 9

Reverse Setup ID	
Imperial Units (US)	True
Work Order	

Custom 10**Project**

Sheet (Group) Number

Pressure Value

Project

Dexter Wilson
Engineering**Coating Method**

Completed

Yes

Insp Tech Used

CCTV	Yes
Sidewall	No
Zoom	No

Inspection

Inspection Status Complete Inspection

Reviewed By

Reviewer Certificate
Number**Count Groups**

Taps	3	Roots	0
Cracks / Fractures	0	Broken / Holes / Collapse	0
Deposits	0	Obstruction	0
Abandoned Survey	0		

Scores

Structure Peak Score	0	Structure Peak Grade	1
Structure Mean Score	0	Structure Mean Grade	1
Service Peak Score	6	Service Peak Grade	2
Service Mean Score	0.04	Service Mean Grade	1

Project: Dexter Wilson Engineering

Date: 7/19/2023 11:53:00 AM

Street: Jericho Rd

Length Surveyed: 149

Run Number:

Height (Diameter): 8

Pipe Segment Reference:

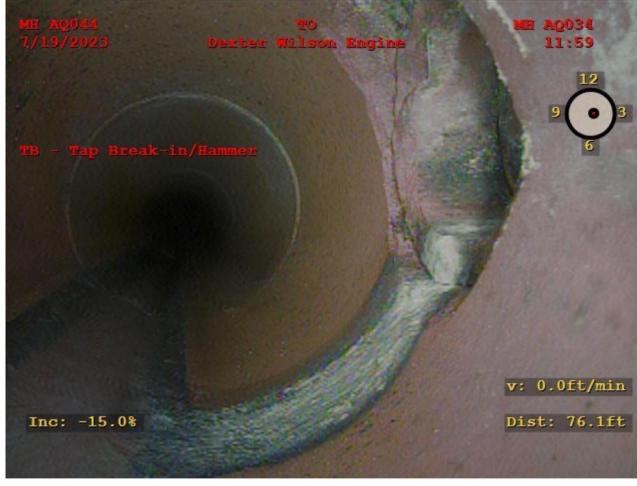
Upstream MH: AQ044

Downstream MH: AQ034

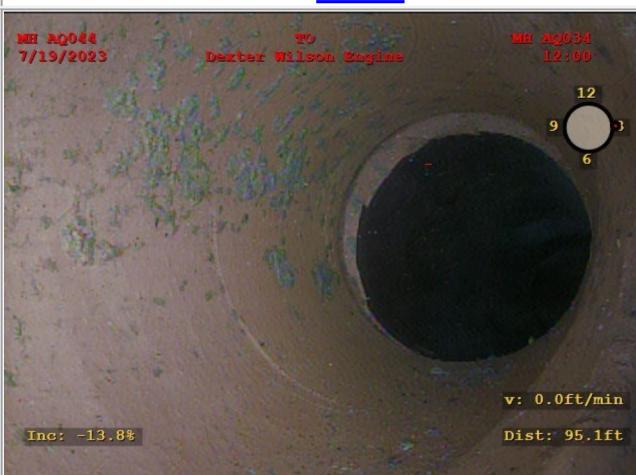
Direction of Survey: Downstream

Material: Vitrified Clay Pipe

Distance	Fault Observation	Time	Picture
0.0	<p>Access Point Manhole Severity: None Remarks: AQ044</p>	00:00:00 00:00:00	 <p>a=""></p>
0.0	<p>Miscellaneous Water Level Severity: None Percent: 5</p>	00:00:00 00:00:00	 <p>a=""></p>

76.1	<p>Tap Break-in/Hammer Position: 2 Severity: None Size: 4</p>	00:00:00 00:00:00	 a="">
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Distance	Fault Observation	Time	Picture
94.9	<p>Tap Factory Defective Position: 2 Severity: None Size: 4 Remarks: JAM Maint Weight: 3</p>	00:00:00 00:00:00	 a="">

			
94.9	Picture Number: 2 Tap Factory Defective Position: 2	00:00:00	
94.9	Picture Number: 3 Tap Factory Defective Position: 2	00:00:00	

Distance	Fault Observation	Time	Picture
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95.1	<p>Tap Factory Defective Position: 2 Severity: None Size: 4 Remarks: JAM Maint Weight: 3</p>	<p>00:00:00 00:00:00</p>	
149.0	<p>Access Point Manhole Severity: None Remarks: AQ034</p>	<p>00:00:00 00:00:00</p>	

Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	6	6
2	0	0	0
1	0	0	0
Overall	0	6	6
Number of Defects	0	2	2
Pipe Rating	0000	3200	3200
Pipe Ratings Index	0	3	3

Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location		
				Dimension		%		At / From	To	
				1st	2nd					
0	00:00:00	AMH - Access Point Manhole								
AQ044										
0	00:00:00	MWL - Miscellaneous Water Level				5				
76.1	00:00:00	TB - Tap Break-in/Hammer		4				2		
94.9	00:00:00	TFD - Tap Factory Defective		4				2		
JAM										
95.1	00:00:00	TFD - Tap Factory Defective		4				2		
JAM										
149	00:00:00	AMH - Access Point Manhole								
AQ034										

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**Project Information**

Surveyor Name	Jason Bingham	Certificate Number	U-0417-07007758
Owner		Customer	Dexter Wilson Engineering inc.
Drainage Area		PO Number	
Pipe Segment Reference		Date	7/19/2023 12:05
Street	Jericho Rd	City	La Mesa
Comments			

Manhole

Upstream MH	AQ034	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	AQ032	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Pipe Use	Sanitary Sewage Pipe	Direction of Survey	Downstream

Pipe

Height (Diameter)	8	Width	
Shape	Circular	Material	Vitrified Clay Pipe
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	35.2
Year Constructed		Year Renewed	

Misc

Flow Control	Sewer System	Media Label	DVD
Purpose	Evaluation Survey (SSES)	Consequence of Failure	
Pre-Cleaning	Not Known	Date Cleaned	
Weather	Dry - No Precipitation During Survey	Location Code	Primary major arterial roads, interstates, numbered roads or town/city center roads for heavy vehicles.
Additional Info		Location Details	

Custom

Custom 1	Custom 2
Custom 3	Custom 4
Custom 5	Custom 6
Custom 7	Custom 8

Custom 9

Reverse Setup ID
Imperial Units (US) True
Work Order

Custom 10

Project
Sheet (Group) Number
Pressure Value
Project Dexter Wilson
 Engineering

Coating Method

CCTV Yes
 Sidewall No
 Zoom No

Completed

Yes

Insp Tech Used

Laser No
 Sonar No
 Other No

Inspection

Inspection Status Complete Inspection

Reviewed By

**Reviewer Certificate
 Number**

Count Groups

Taps	0	Roots	0
Cracks / Fractures	0	Broken / Holes / Collapse	0
Deposits	2	Obstruction	0
Abandoned Survey	0		

Scores

Structure Peak Score	2	Structure Peak Grade	5.8
Structure Mean Score	0.11	Structure Mean Grade	1
Service Peak Score	2	Service Peak Grade	1
Service Mean Score	0.11	Service Mean Grade	1

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Project: Dexter Wilson Engineering

Date: 7/19/2023 12:05:00 PM

Street: Jericho Rd

Length Surveyed: 35.2

Run Number:

Height (Diameter): 8

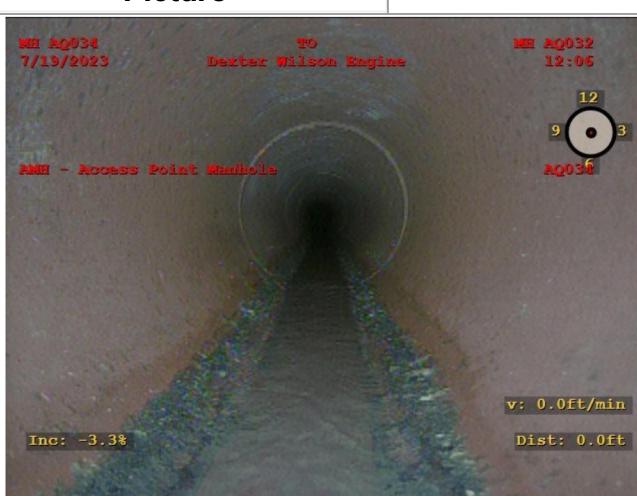
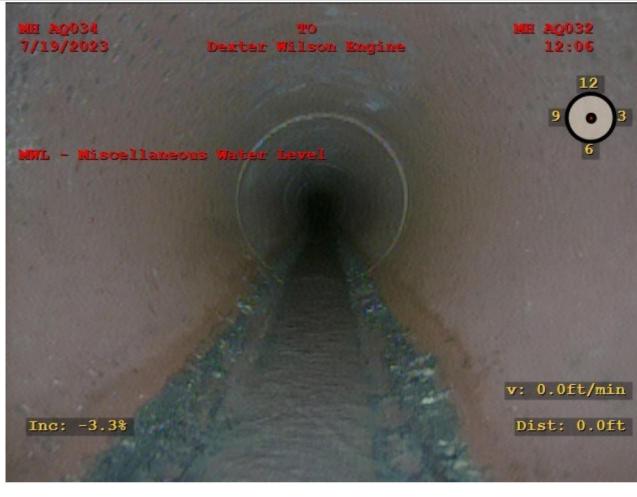
Pipe Segment Reference:

Upstream MH: AQ034

Downstream MH: AQ032

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

Distance	Fault Observation	Time	Picture
0.0	Access Point Manhole Severity: None Remarks: AQ034	00:00:00 00:00:00	
0.0	Miscellaneous Water Level Severity: None Percent: 5	00:00:00 00:00:00	

Distance	Fault Observation	Time	Picture
2.7	Deposits Attached Grease Position: 5 To 7 Severity: None Cont Defect: S01 Percent: 0 Maint Weight: 2	00:00:00 00:00:00	 a="">

Distance	Fault Observation	Time	Picture
13.9	Miscellaneous Water Level Sag Severity: None Cont Defect: S02 Percent: 15 Struct Weight: 2	00:00:00 00:00:00	 a="">

			
35.1	<p>Deposits Attached Grease Position: 5 To 7 Severity: None Cont Defect: F01 Percent: 0 Maint Weight: 2</p>	00:00:00 00:00:00	
35.2	<p>Miscellaneous Water Level Sag Severity: None Cont Defect: F02 Percent: 15 Struct Weight: 2</p>	00:00:00 00:00:00	

Distance	Fault Observation	Time	Picture
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35.2	<p>Access Point Manhole Severity: None Remarks: AQ032</p>	00:00:00 00:00:00	<p>The image shows an aerial view of a circular manhole cover on a grassy area. Overlaid on the image are several pieces of text and data:</p> <ul style="list-style-type: none">Top left: "MH AQ034 7/19/2023"Top center: "TO Dexter Wilson Engine"Top right: "MH AQ032 12:11"Middle left: "AMH - Access Point Manhole"Bottom left: "Inc: 1.6°"Bottom right: "v: 0.0ft/min" and "Dist: 35.2ft"Bottom center: "a="">"Top right corner: A small diagram of a circle with numbers 12, 9, and 3.
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Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	0	0
2	8	12	20
1	0	0	0
Overall	8	12	20
Number of Defects	4	6	10
Pipe Rating	2400	2600	2A00
Pipe Ratings Index	2	2	2

Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location		
				Dimension		%		At / From	To	
				1st	2nd					
0	00:00:00	AMH - Access Point Manhole								
AQ034										
0	00:00:00	MWL - Miscellaneous Water Level				5				
2.7	00:00:00	DAGS - Deposits Attached Grease	S01			0		5	7	
13.9	00:00:00	MWLS - Miscellaneous Water Level Sag	S02			15				
35.1	00:00:00	DAGS - Deposits Attached Grease	F01			0		5	7	
35.2	00:00:00	MWLS - Miscellaneous Water Level Sag	F02			15				
35.2	00:00:00	AMH - Access Point Manhole								
AQ032										

Created with the  report generator