Sample

Sewer Area Study

ESTU# PC#

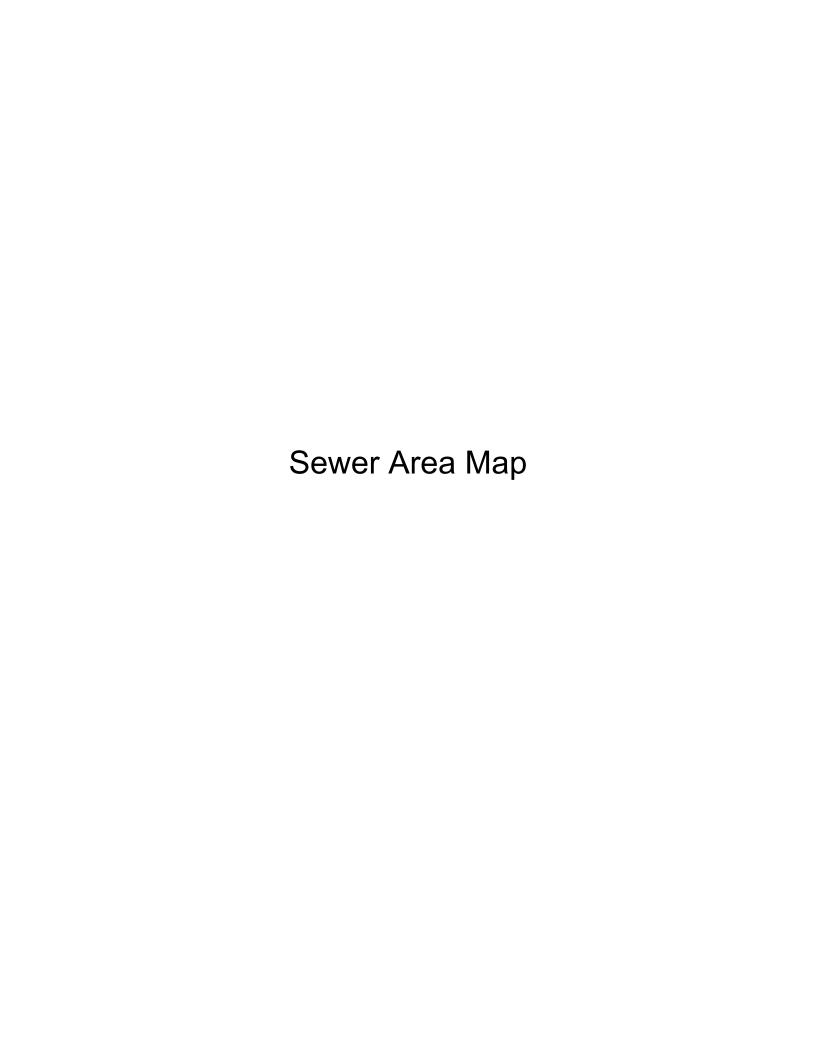
Project Site Address TR # PM #

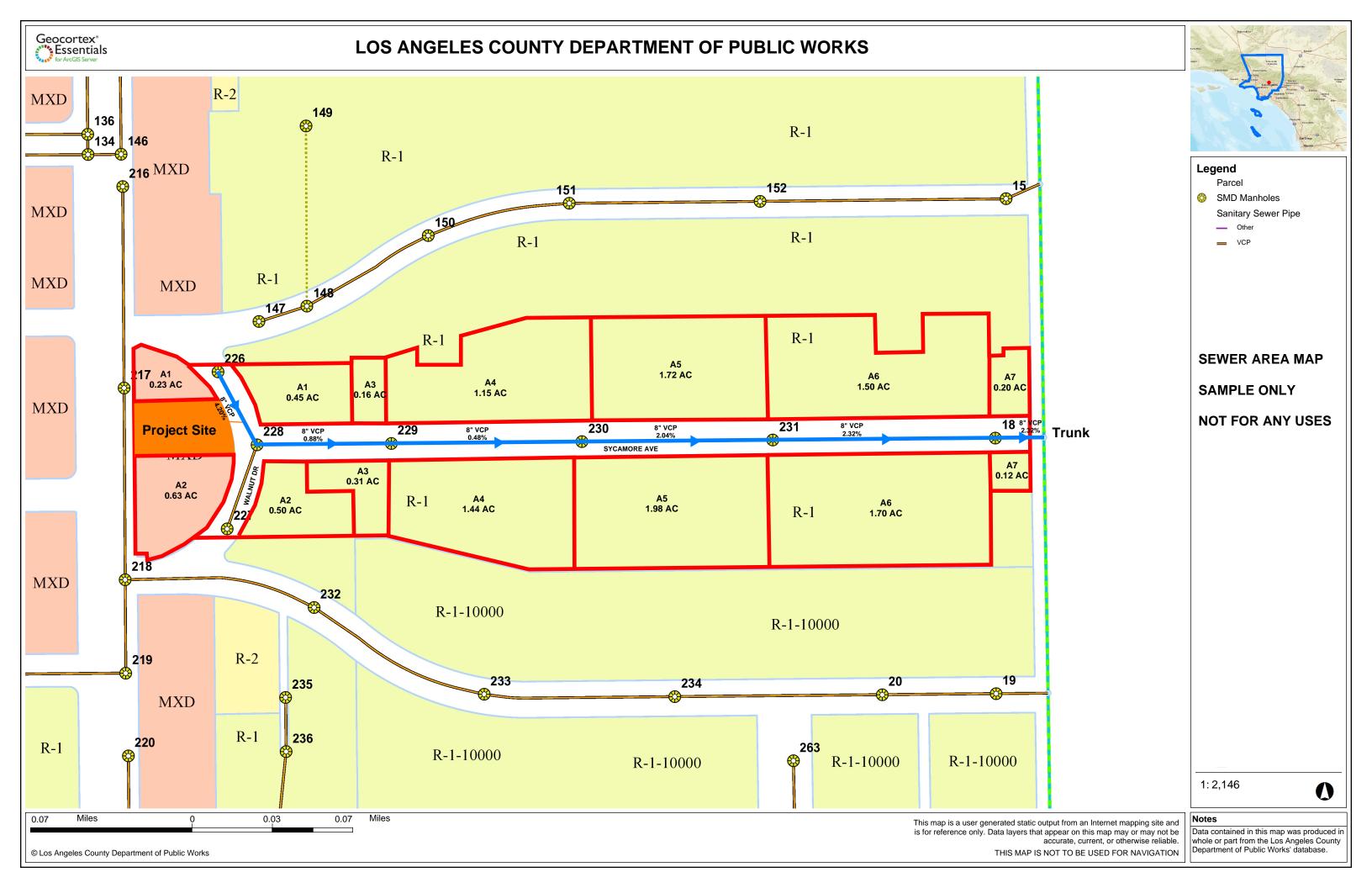
Prepared by:

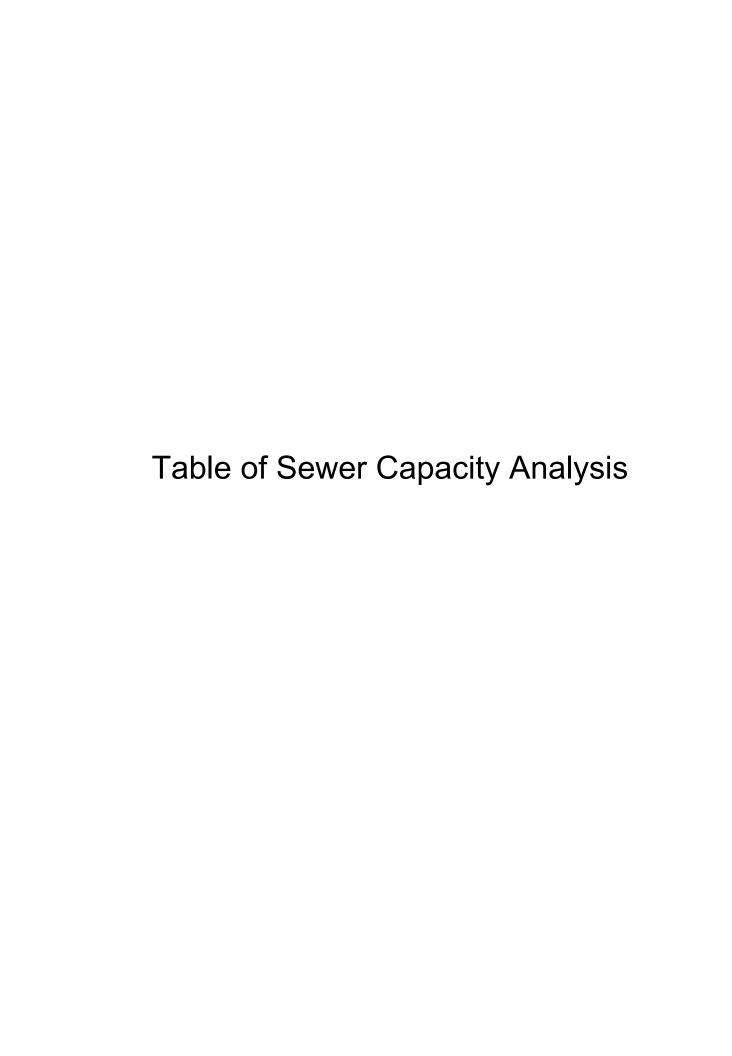
County of Los Angeles Department of Public Work Land Development Division

Signature, stamp or seal, and license expiration date of a licensed civil engineer.

- I. Introduction
- II. Site description
- III. Project description
- IV. Description of existing sewer system
- V. Description of proposed sewer system
- **VI.** Methodology used and list of references
- VII. Sewer capacity analysis
- VIII. Proposed mitigation if necessary
 - IX. Conclusion
 - X. Appendix or Reference
 - a) . Sewer Area Map
 - b). Table of Sewer Capacity Analysis
 - c). Will Serve Letter
 - d). All Supporting Plans / Maps
 - 1. Tentative Map / Parcel Map / Site Plans
 - 2. SMD map
 - 3. As-built







Sewer Area Study Table

* Calculated using Kutter's Formula with n=0.013

** Design capacity keeps three decimal places at least

*** Based on current land use and coefficients per LA County, (Attach supporting calculations)

**** For pipes < 15", design capacity of the sewer mainline is defined as 1/2 full = 100% capacity (d/D)

****** For pipes ≥ 15", design capacity of the sewer mainline is defined as 3/4 full = 100% capacity (d/D)

Kutter's Formula

$$C = \frac{41.65 + \frac{0.00281}{s} + \frac{1.811}{n}}{1 + \frac{n}{\sqrt{R}} \left(41.65 + \frac{0.00281}{s}\right)} \qquad V = C\sqrt{RS}$$

$$Q = CA\sqrt{RS}$$

Street Name	Segment		Pipe		* Design capacity		Area	Zoning	Calculated	***Cumulative	PC orCl	%Full		
	M.H. #	M.H. #	Size (in.)	Slope (%)		3/4 Full(≥15")	(Acres)		Flow (cfs)	Calculated Flow (cfs)	Construction Plan #	Cumulative Flow / Capacity	Comment	Jurisdiction
Walnut Dr. A1							0.23	0.015	0.003	0.003	CI 1374			LA County
Walnut Dr. A1							0.45	0.004	0.002	0.005	CI 1374			LA County
Project Site	226	228	8	4.2	1.137				0.010	0.015	CI 1374	1.34%	Under Capacity	LA County
Walnut Dr. A2							0.63	0.015	0.009	0.025	CI 1374			LA County
Walnut Dr. A2							0.5	0.004	0.002	0.027	CI 1374			LA County
Sycamore A3	228	229	8	0.88	0.519		0.47	0.004	0.002	0.029	CI 1374	5.50%	Under Capacity	LA County
Sycamore A4	229	230	8	0.48	0.383		2.59	0.004	0.010	0.039	CI 1374	10.17%	Under Capacity	LA County
Sycamore A5	230	231	8	2.04	0.792		3.7	0.004	0.015	0.054	CI 1374	6.79%	Under Capacity	LA County
Sycamore A6	231	18	8	2.32	0.845		3.2	0.004	0.013	0.067	CI 1374	7.88%	Under Capacity	LA County
Sycamore A7	18	Trunk	8	2.32	0.845		0.32	0.004	0.001	0.068	CI 1374	8.03%	Under Capacity	LA County

Project Site Flow = 10 Condominiums x 0.001 cfs/unit = 0.01 cfs

