

City of Chattanooga

Combined Sewer Area



Combined Sewer Area

- **Chapter 31 of the City Code**
 - **Addresses the Combined Sewer areas**

CSS Full Fixture Method

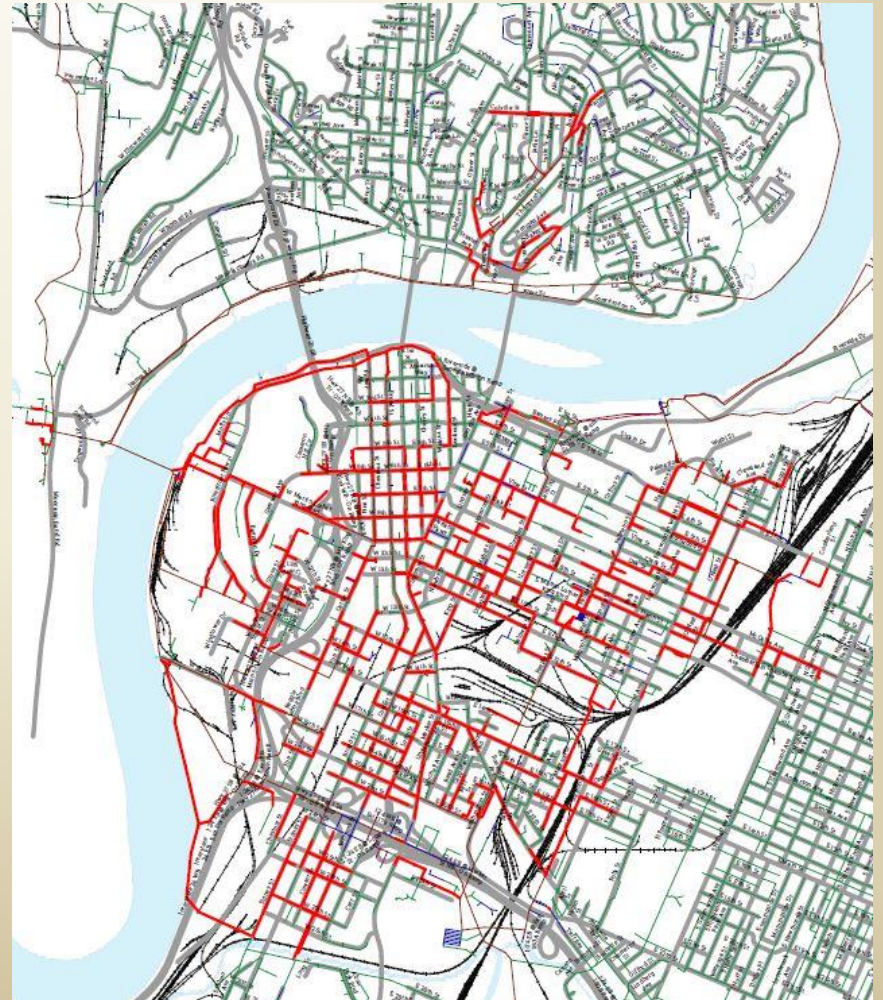
- Greater than 1 acre
- Increasing the impervious area

CSS Primary Method

- Voluntary Stay-On-Volume
- SOV greater than 0.5"
- Earn Fee Discounts and Coupons

CSS Simple Fixture Method

- 5,000 s.f. and greater
- No increase in impervious area



Combined Sewer Area

CSS Full Fixture Method

- Greater than 1 acre
- Increasing the impervious

		Peak Combined Discharges (cfs)				
		2-Yr.	5-Yr.	10-Yr.	25-Yr.	
		(cfs)	(cfs)	(cfs)	(cfs)	
		Storm Events:				
		Existing, Permitted Development:				
	Input Cells	Storm	3.973	5.149	6.043	7.399
		Fixtures	0.000	0.000	0.000	0.000
		Combined Existing Q's - TARGET	3.973	5.149	6.043	7.399
	STORM	Proposed Development				
	Site	Storm	5.415	6.663	7.598	9.003
	Acres	Fixtures	0.836	0.836	0.836	0.836
Predevelopment	1.00	Combined Proposed Q's	6.251	7.498	8.434	9.838
Existing, Permitted Development	1.00	Combined Discharge Reduction	2.278	2.349	2.391	2.439
Proposed Development	1.00	% Discharge Reduction	36.4%	31.3%	28.3%	24.8%

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- Voluntary Stay-On-Volume
- SOV greater than 0.5"
- Earn Fee Discounts and Coupons

Intermed. Calcs		Final A	Peak Combined Discharges (cfs)						
F_p	T_c (hrs.)	FIXTUR	Storm Events:	2-Yr. (cfs)	5-Yr. (cfs)	10-Yr. (cfs)	25-Yr. (cfs)		
1.00	0.083	n/a	Existing, Permitted Development:						
			Storm	3.973	5.149	6.043	7.399		
			Fixtures	0.000	0.000	0.000	0.000		
			Combined Existing Q's - TARGET	3.973	5.149	6.043	7.399		
			Proposed Development						
			Storm	3.295	4.546	5.563	7.058		
			Fixtures	0.836	0.836	0.836	0.836		
			Combined Proposed Q's	4.131	5.381	6.399	7.894		
			Combined Discharge Reduction	0.158	0.232	0.355	0.495		
1.00	0.083	500	1.0	75%	0.836	2.11	2.91	3.56	4.52

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CSS Simple Fixture Method

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- No increase in impervious area

		Peak Combined Discharges (cfs)			
		2-Yr.	5-Yr.	10-Yr.	25-Yr.
		(cfs)	(cfs)	(cfs)	(cfs)
	Storm Events:				
	Existing, Permitted Development:				
	Storm	5.415	6.663	7.598	9.003
	Fixtures	0.000	0.000	0.000	0.000
	Combined Existing Q's - TARGET	5.415	6.663	7.598	9.003
	Proposed Development				
	Storm	5.415	6.663	7.598	9.003
	Fixtures	0.836	0.836	0.836	0.836
	Combined Proposed Q's	6.251	7.498	8.434	9.838
	Combined Discharge Reduction	0.836	0.836	0.836	0.836
	% Discharge Reduction	13.4%	11.1%	9.9%	8.5%
Predevelopment	1.00				
Existing, Permitted Development	1.00				
Proposed Development	1.00				

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Questions?

Thank You!