



Public Works Department Sewer Lateral Installations

Commission Conference

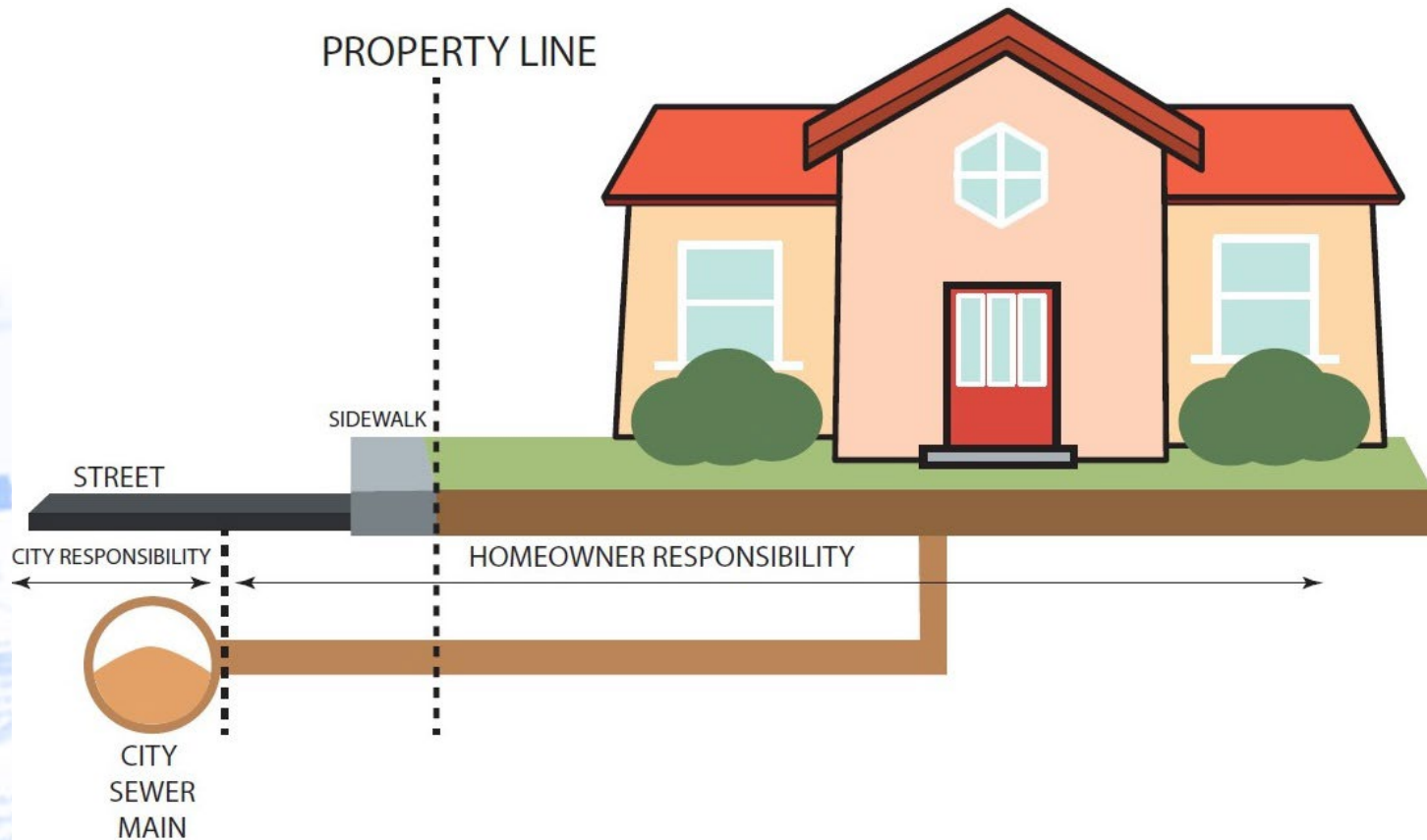
September 22, 2022

Goals and Objectives

- 1 Evaluate historical information, ordinances and practices
- 2 Costs data and analytics
- 3 Options and recommendation
- 4 Ensure funding for any new policy



Current Installation per 2014 Ordinance



Maintenance of Sewer Laterals

**Clogged Laterals Can Be the City's,
Homeowner's, or Both!**



Sewer Lateral Installation - History

1970 - 2000 Ordinance No. (C-14-49)

- ▶ City installed: recovery fee of \$3,500 per installation

Waterworks Program: (2000 - 2014)

- ▶ City installed as part of CIP projects

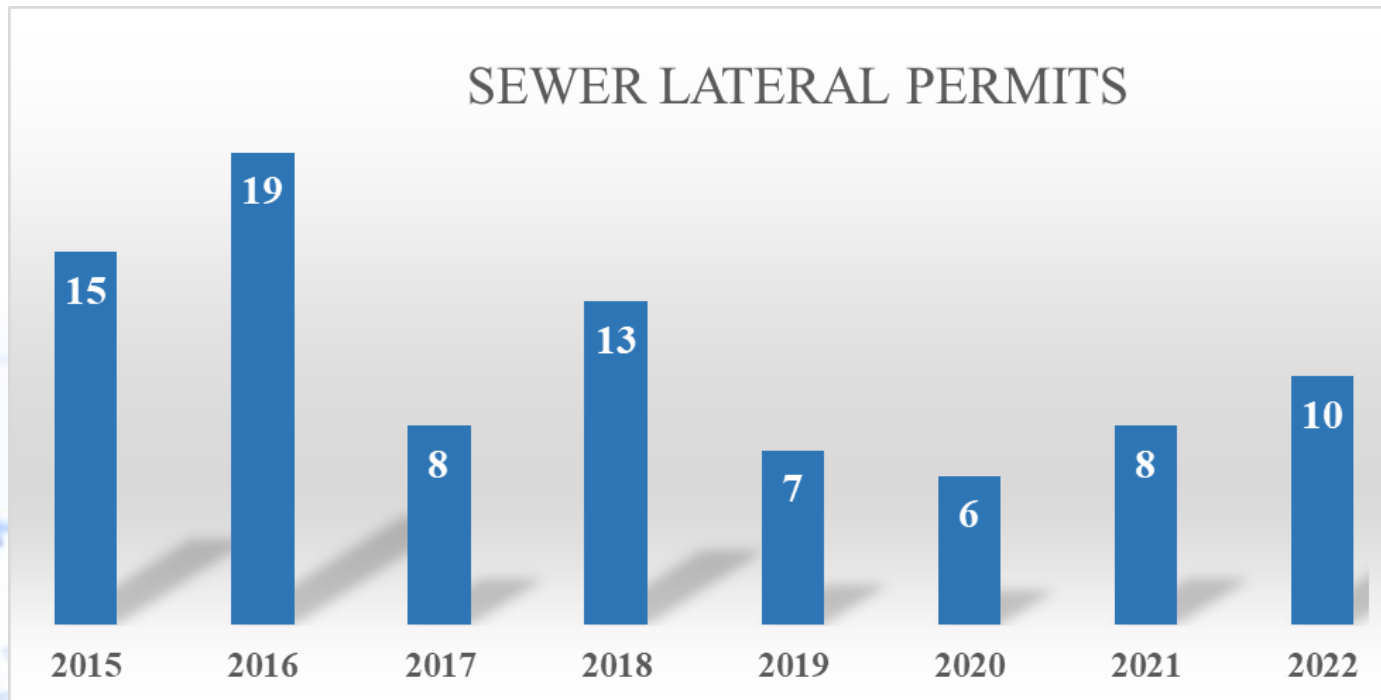
2014 Ordinance Change

- ▶ Owner installs sewer lateral at his/her own costs
- ▶ Owner applies for permit for sewer lateral installation

Sewer Lateral Installation – Logistics / Factors

- Depth of sewer mains in the street
- Slope, size, and length of the laterals to the gravity main
- Condition of the gravity main in the street
- Are there sidewalks or not?
- Construction methods, dewatering, and Maintenance of Traffic (MOT)

Rights of Way (ROW) – Sewer Lateral Permits



Sewer Lateral Construction Categories

Depth	Construction Methods	Construction Considerations
Less than 6 Feet deep	Open cut	No dewatering No trench shoring / box Relatively easy installation Can be dry installation
Greater than 6 Feet deep	Open cut	Dewatering required Groundwater water zone Trench shoring required Desilting box for dewatering Disposal of groundwater

Sewer Lateral - Installation Costs (2022)

Depth	City Crews	Contractors (Providers)
Less than 6 Feet deep	\$6,000 - \$7,000	\$12,000 - \$15,000
Greater than 6 Feet deep	N/A ***	\$58,000 - \$60,000

***** Requires the development of in-house deep construction capabilities**

Develop In-house Deep Construction Capabilities

Categories	Resources	Costs
Crews / Labor *	1 Crew Leader 1 Equipment Operator 3 Serviceworkers	\$276,200 *
Equipment **	Pick up truck, service truck, bobcat, loader, excavator, loading trailer	\$811,397 **
Tools **	Hand and power tools, saws, compactor, jackhammers, etc.	\$ 47,000 **
Total		\$1,134,597

* **Annual recurring Labor Cost: \$290,000 (Year 1, based on 5% increase)**

** **Annual Replacement and Maintenance Cost: \$170,000 (5 years replacement schedule)**

Options & Recommendations

Options	Owner	City	Permit Fees	Ordinance Recovery Fees	Ordinance Change	Budget Impact
City Install (Shallow)	N/A	Via City Crews	N/A	City Crew Cost or \$12,000	Yes	Yes **
City Install (Deep)	N/A	Via Contractor	Yes	Contractor Costs or \$60,000	Yes	\$1.5 M Annual Sewer Contract
No Change	Install	N/A	Yes	0	No	0

**** If crews are installing sewer laterals, resources are diverted from system maintenance**

Sewer Lateral Installations - Survey

Municipality	City Install	Owner / Builder Install	Comments
Fort Lauderdale		✓	
Hollywood		✓	
Pompano Beach	✓		City provides one lateral. If additional laterals are required, owner pays.
Broward County		✓	County installs <u>only</u> if it is part of a septic tank elimination program (run sewer in new area-CIP).
Town of Davie		✓	
Plantation		✓	
Oakland Park		✓	
Pembroke Pines	✓		Rare occasions – City is relatively new. City installs at owner's costs

Questions /Answers

