

# Drainage Services Flood Prevention Program

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## Lynnwood/Elmwood Community Consultation



# Flooding in Edmonton

- Recurring problem in many areas
- Causes disruptions; cost time and money
- Flood prevention top priority
- Flood prevention program goals:
  - Find primary causes
  - Identify options
  - Work with communities/other stakeholders to implement viable solutions that improves flood prevention



# Actions Since the Flood

- Emergency response in July
- Homeowner subsidy program for backwater valves: \$3M committed to date
- Public meetings in Sept./04
- Engineering studies of high risk neighbourhoods completed Feb./05



# Actions Since the Flood

- **Commitment to public consultation and education**
  - Share knowledge and information
  - Stay in touch through regular communications
  - Consult the community before taking further action
  - Reflect community needs and preferences in the action plan



# Today's Meeting

1. Share engineering findings
2. Lay out various options
3. Get community input and feedback to help define best outcomes for homeowners and City

**No final decisions tonight**

# After Today's Meeting

1. Summarize and share input
2. Incorporate input into action plan recommendations
3. Come back to the community to discuss plan and get feedback
4. Report progress

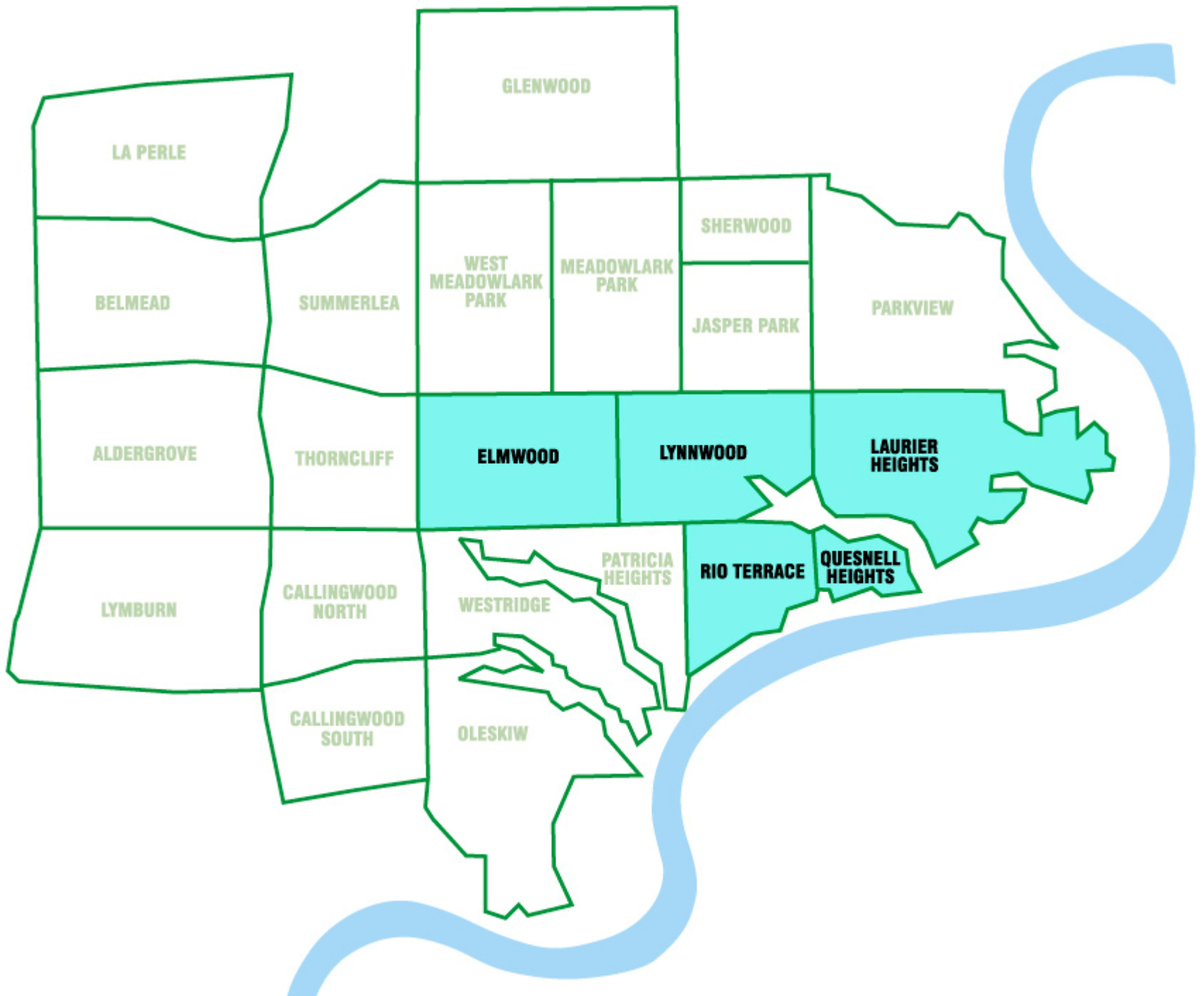
Consultation will continue as required



# Why a Joint Meeting?

- Drainage patterns and trouble spots common to both communities
- Similar causes for flooding
- Options to improve flood prevention have impacts on both communities









# July Flood Impact

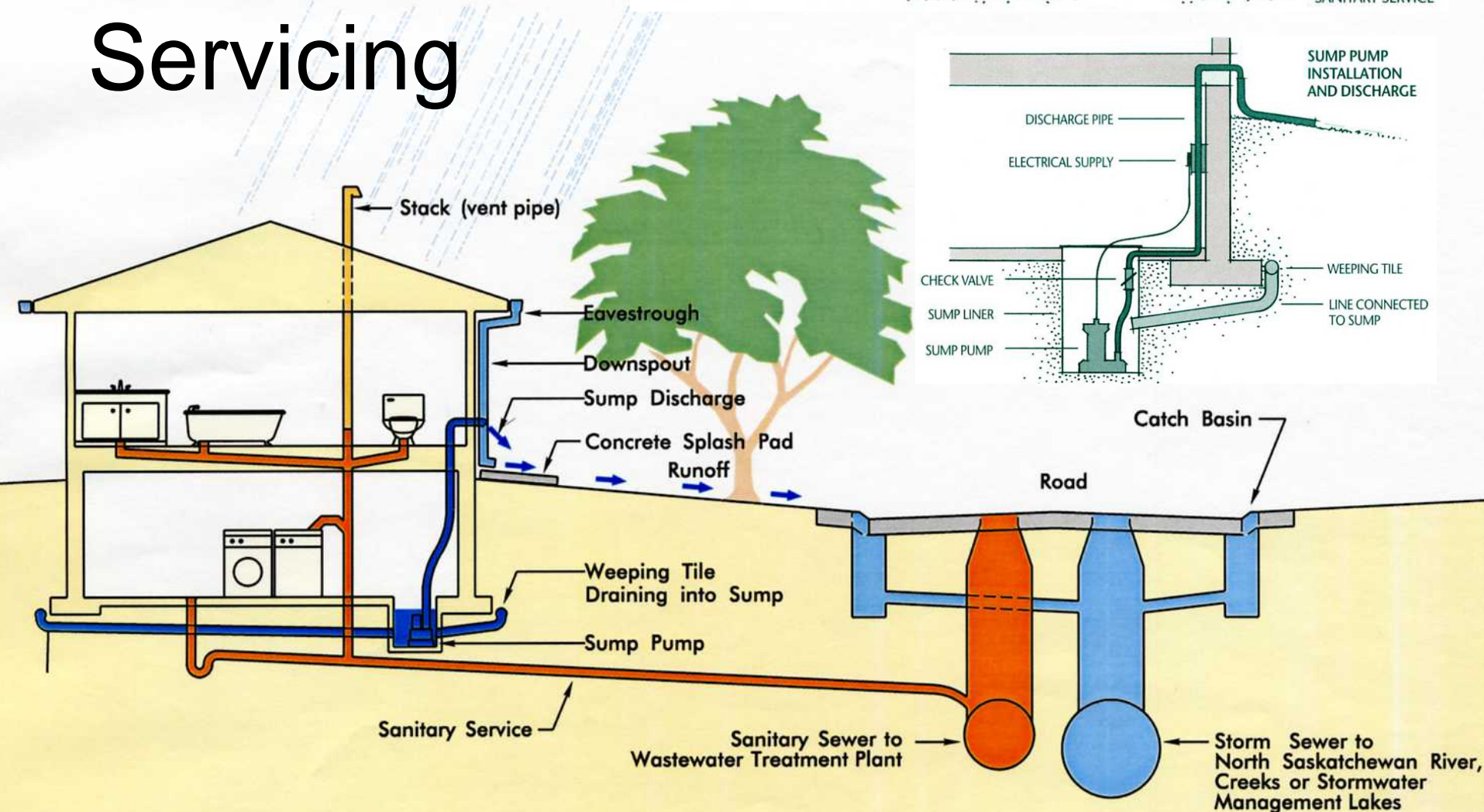
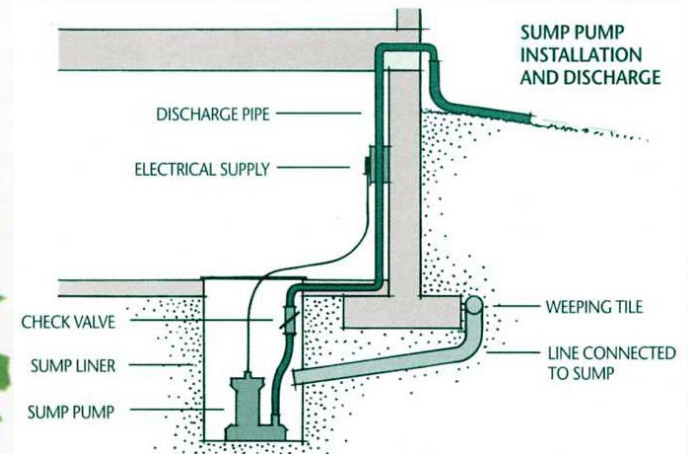
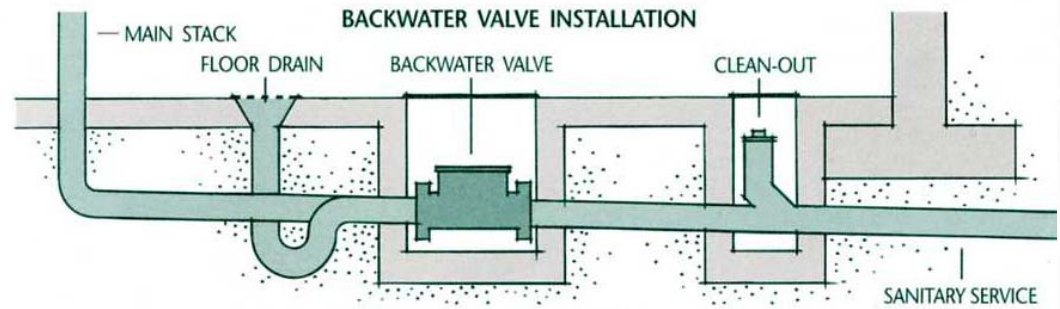
## Lynnwood

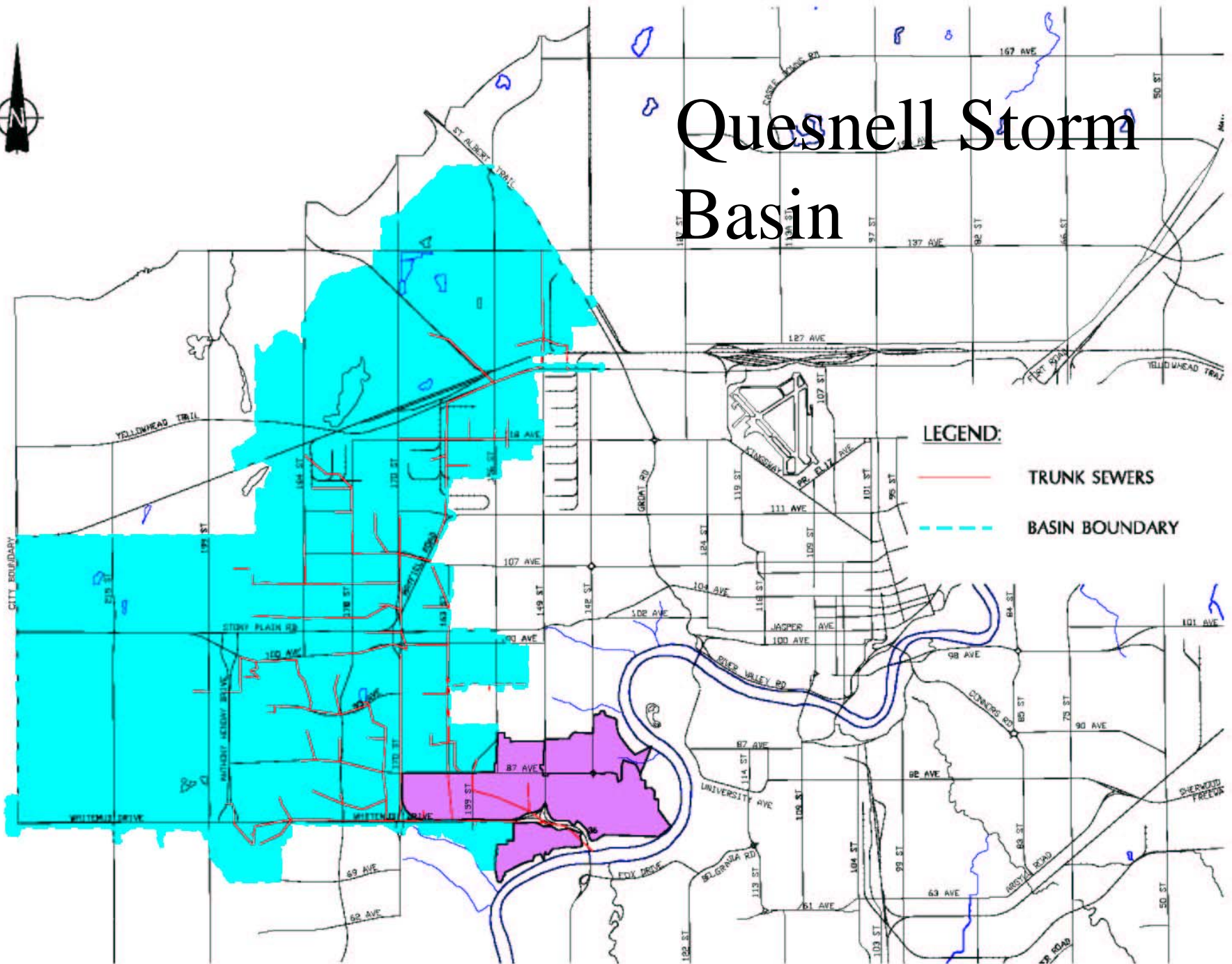
- 237 homes flooded in 2004 floods
- 78 homes flooded before 2004
- 775 homes

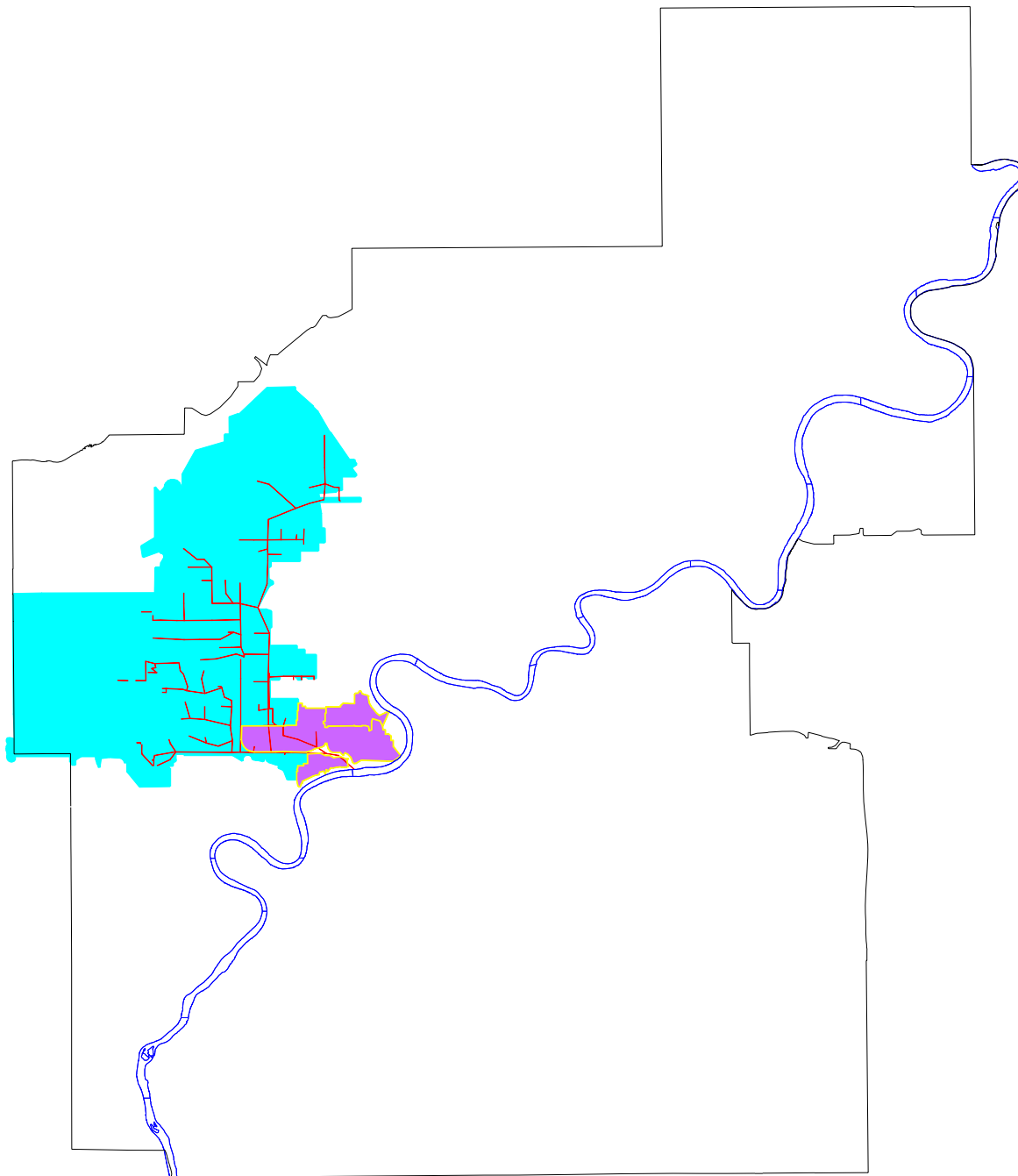
## Elmwood

- 269 homes flooded in 2004 floods
- 50 homes flooded before 2004
- 930 homes

# Typical New Home Servicing

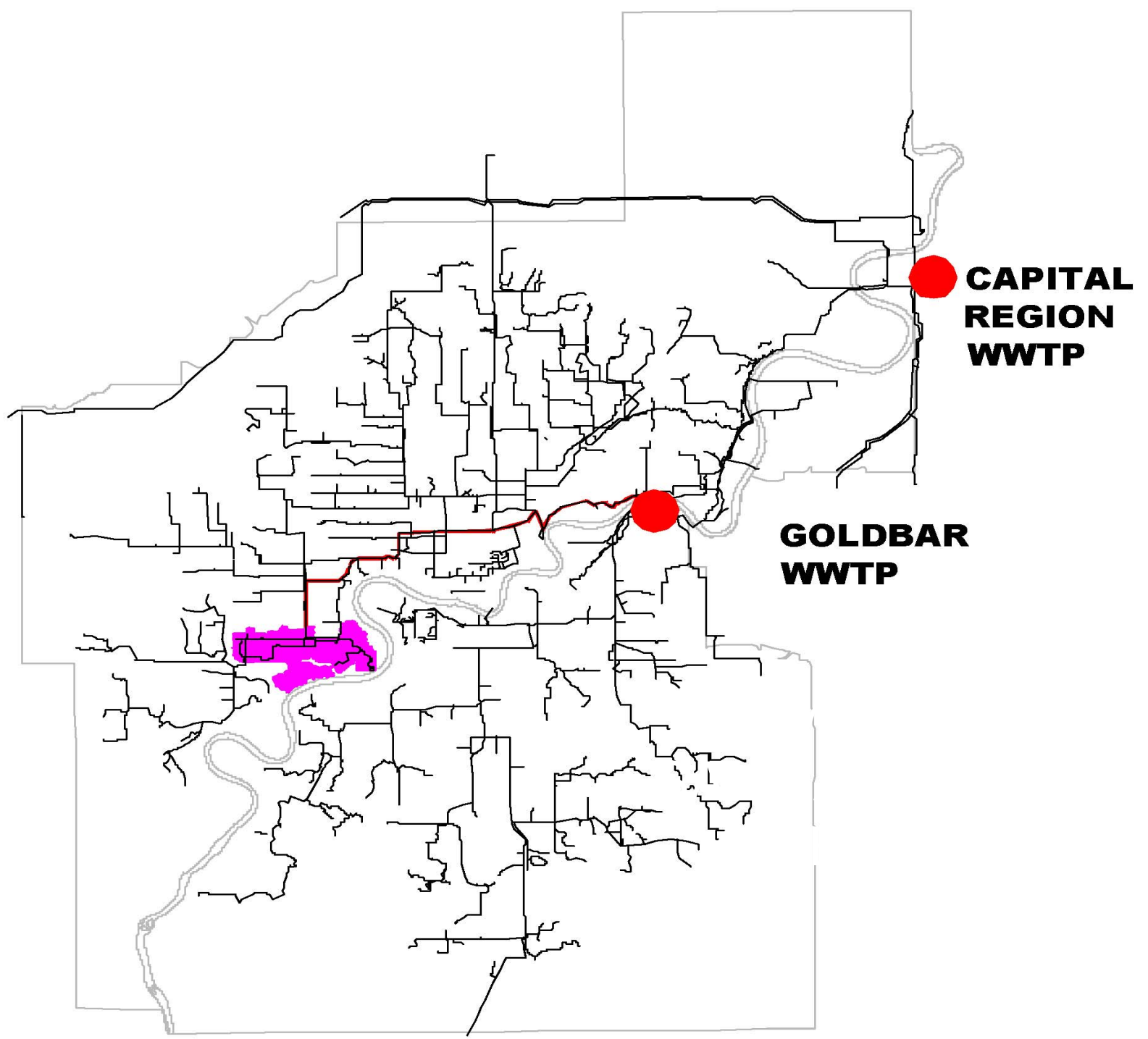






# QUESNELL STORM BASIN





# Lynnwood/Elmwood Findings

- **Water volume exceeded storm sewer capacity**
- **Stormwater got into sanitary system via:**
  - Flooded manhole covers
  - Weeping tile connected to home's sanitary sewer
- **Most flooded basements caused by sanitary sewer backup**



# Lynnwood/Elmwood Findings

- **Common characteristics of flooded homes**
  - 60% had yard elevations above the street curb of 0.5 metres or less
  - 37% had landscaping or lot grading that caused water to drain toward the house
  - 30% had no roof leader or extensions were less than recommended length
  - Only 3% had backflow prevention valves

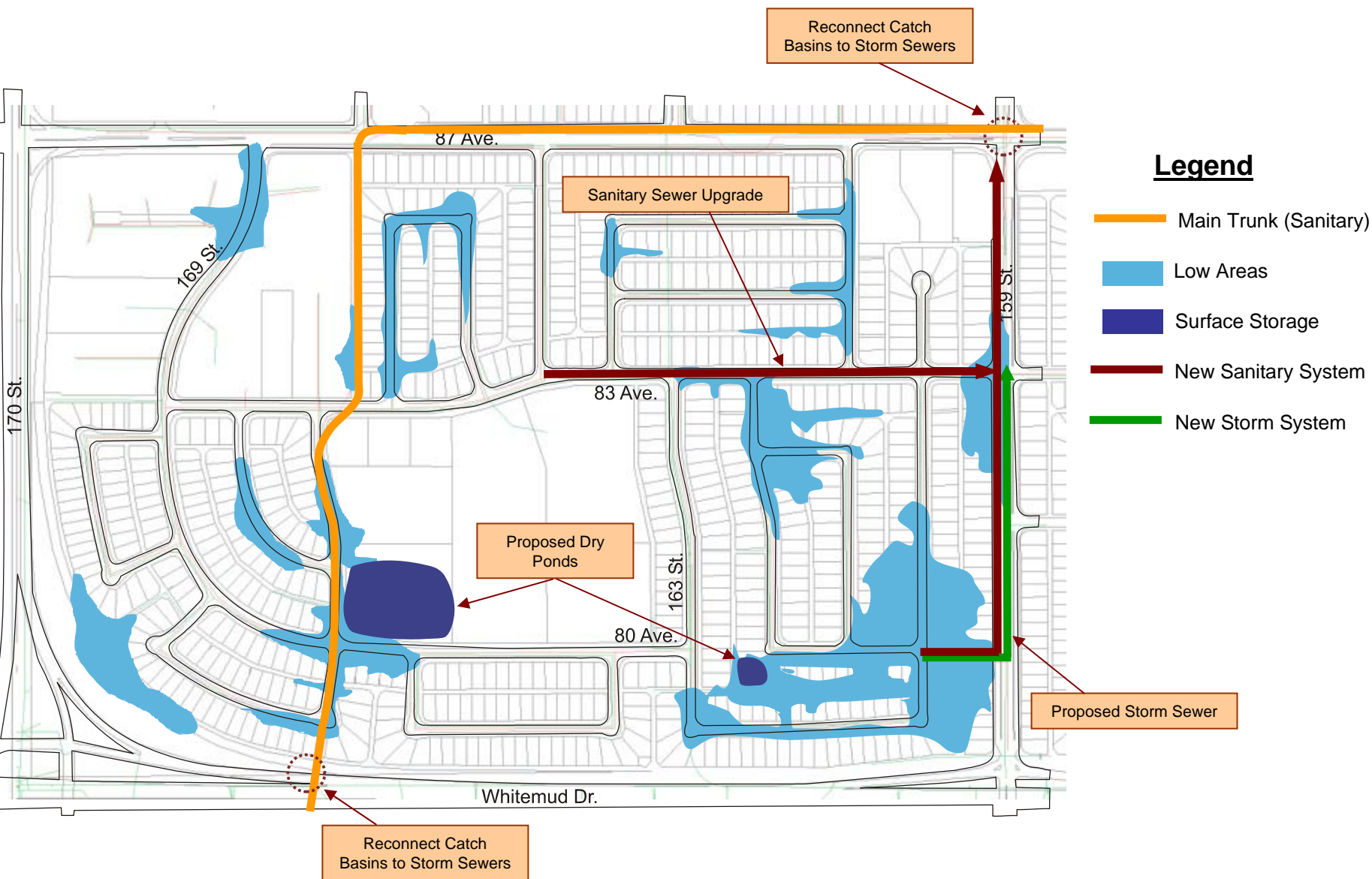


The image features a vertical banner on the left side with the text "City of Edmonton" in a stylized font. The background of the banner shows a modern building with a glass facade and a large, triangular, metallic structure on top, situated next to a body of water. The main content area is a solid blue background with white text.

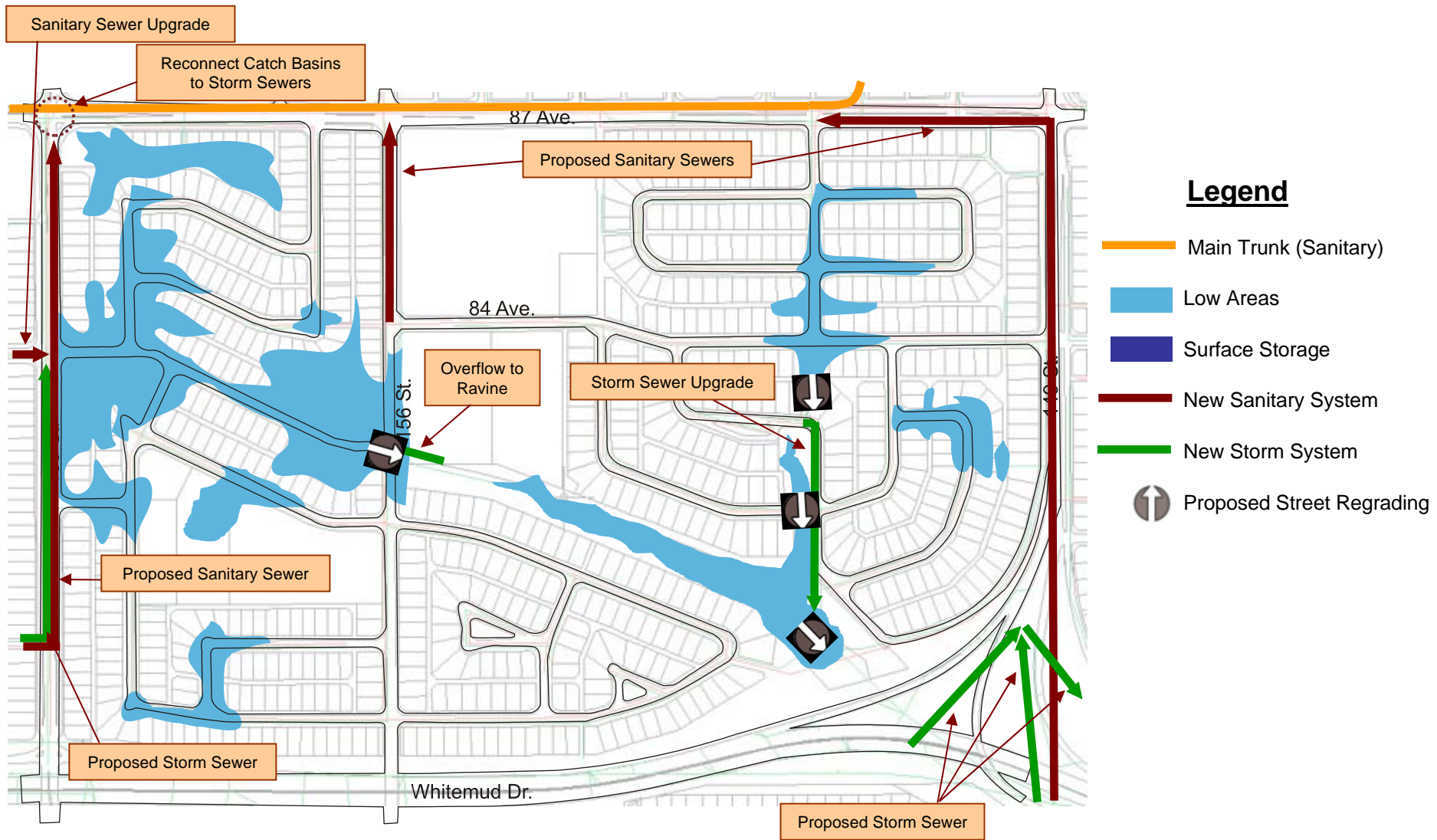
# What Does it Mean?

- Better flood prevention requires joint effort from homeowners and City
- System improvements needed; involves significant time and expense
- Cooperation needed from others who manage or own private property
- Support needed from community to move ahead

# Elmwood



# Lynnwood





# Improvement Options

Sanitary sewer upgrades	\$3,540,000
Storm sewer upgrades	\$1,000,000
Build dry ponds in Elmwood	\$206,000
Do street grading/redirect catchbasins	\$150,000
Total	\$4,896,000

Twin the Quesnell Storm Trunk

\$5,800,000



# Homeowner Options

- Improve lot grading to get surface water away from house
- Install/maintain adequate eavestroughs: 6 inch wide trough recommended
- Set in place downspouts: 1.5 metre extensions
- Install backflow prevention valve
- Install sump pump



The logo for the City of Edmonton, featuring a stylized blue and white geometric design of a city skyline and the text "City of Edmonton" in a serif font, oriented vertically on the left side of the slide.

# What are the Benefits?

- Quicker overall drainage
- Less pooling of water on the surface
- Less likelihood of basement flooding
- Less property damage
- Savings of time, money and inconvenience

# Discussion and Feedback

Clarifying Questions?



Issues, comments, concerns?



Ideas and suggestions?



Preferred options?