

Drainage Services Flood Prevention Strategy

Lakewood/Knottwood Community Consultation

The logo for the City of Edmonton, featuring a stylized building with a triangular roof and the text "City of Edmonton" in a serif font, oriented vertically on the left side of the slide.

Flooding in Edmonton

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



Actions Since the Flood

- Emergency response in July
- Homeowner subsidy program for backwater valves: \$3.0M 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

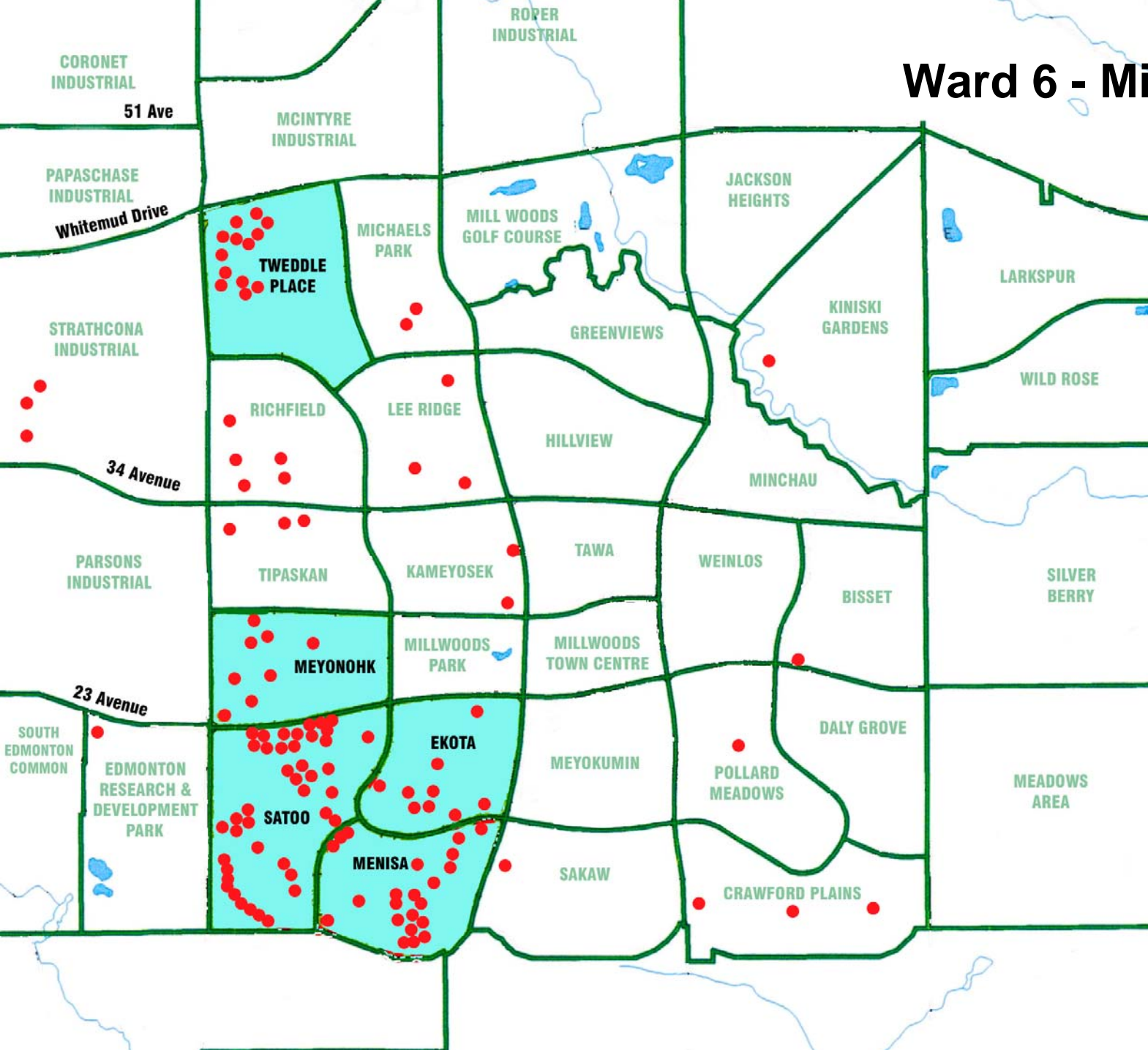


July Flood Impact

Lakewood/Knottwood

- 233 homes flooded in 2004 floods
- 284 homes flooded before 2004
- 3,940 homes in area

Ward 6 - Millwoods



Lakewood/Knottwood Findings

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



Lakewood/Knottwood Findings

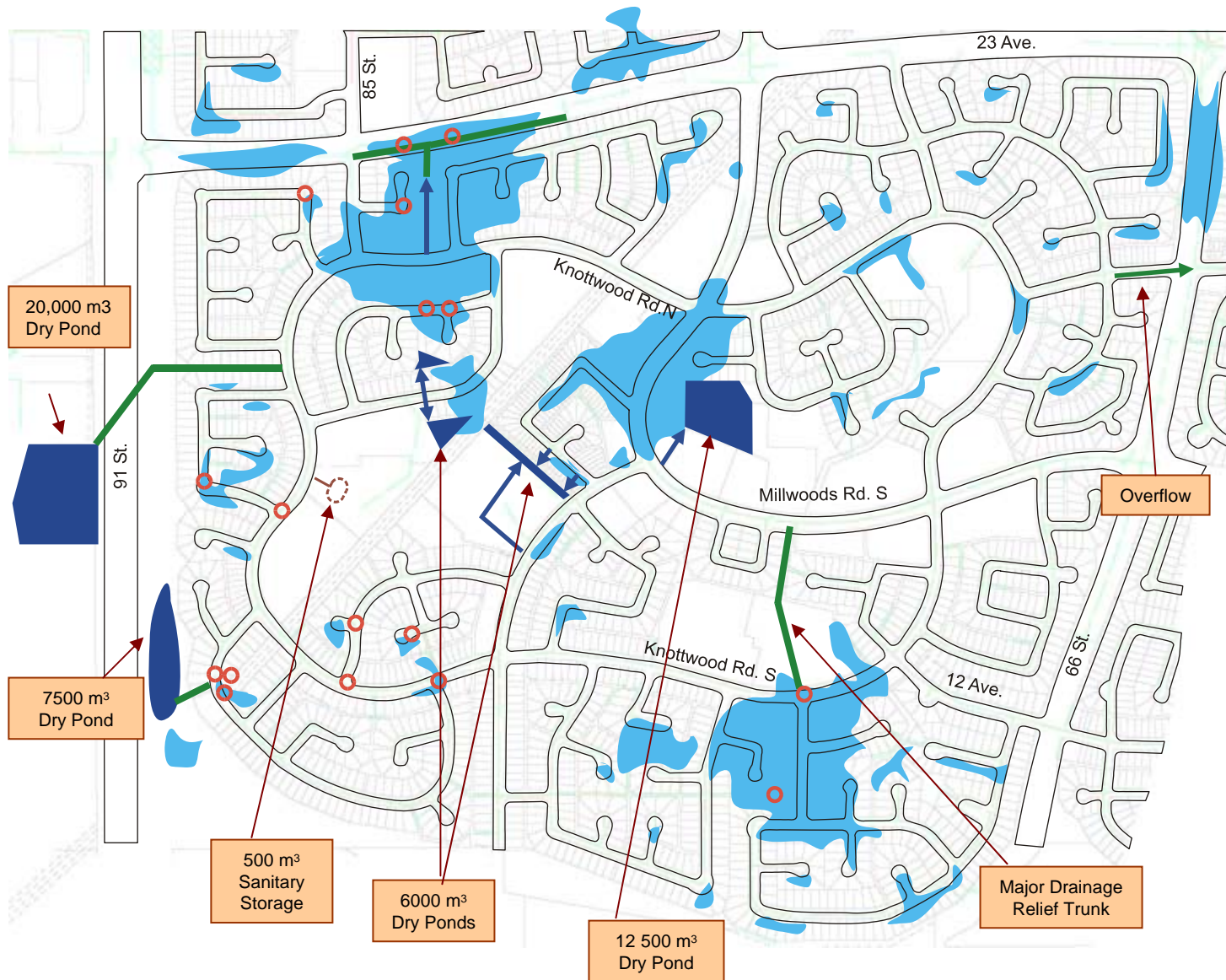
- **Common characteristics of flooded homes**
 - 17% had landscaping or lot grading that caused water to drain toward the house
 - Many houses had downspouts discharging too close to the home










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

Knottwood



Legend

-  Low Areas
-  Surface Storage
-  Surface Drainage for Major Flows
-  New Storm System
-  Inlet Capacity Upgrade
-  New Sanitary System
-  Underground Sanitary Storage Tank

Lakewood



Legend

- Inlet Capacity Upgrade



Improvement Options

Dry Pond and Storm trunk relief from Knottwood trunk	\$4,900,000
Dry Pond and Major flow diversions	\$2,800,000
Sag inlet capacity upgrades	\$290,000
Relief storm sewer pipe	\$170,000
Sanitary storage tank	\$750,000
Total	\$8,910,000

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 and sump pump



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?

Household Servicing (1989 to present)

