City of Edmonton

Drainage Services
Flood Prevention Program

Bearspaw
Community Consultation
November 6, 2006

City of Edmonton

How Did We Get Here?

- Major flooding in July, 2004
- Flood prevention becomes top priority
- Commitment to reduce flood risk and provide public education
- flood*proof* program
- 43 at risk neighbourhoods identified (incl. Bearspaw)
- May 8, 2006 Public Meeting

City of Edmonton

May 8 Public Meeting

- Upgrade needs identified
- Council approval of Program outstanding
- Designs proceeding
- Input from residents (12)
  - Supportive of sewer upgrades
  - Recognized lake improvements necessary
  - Suggested other alternatives for lake
  - Wanted least disruptive lake alternative
  - Valued waterfowl on lake
  - Naturalization (wetlands) favoured

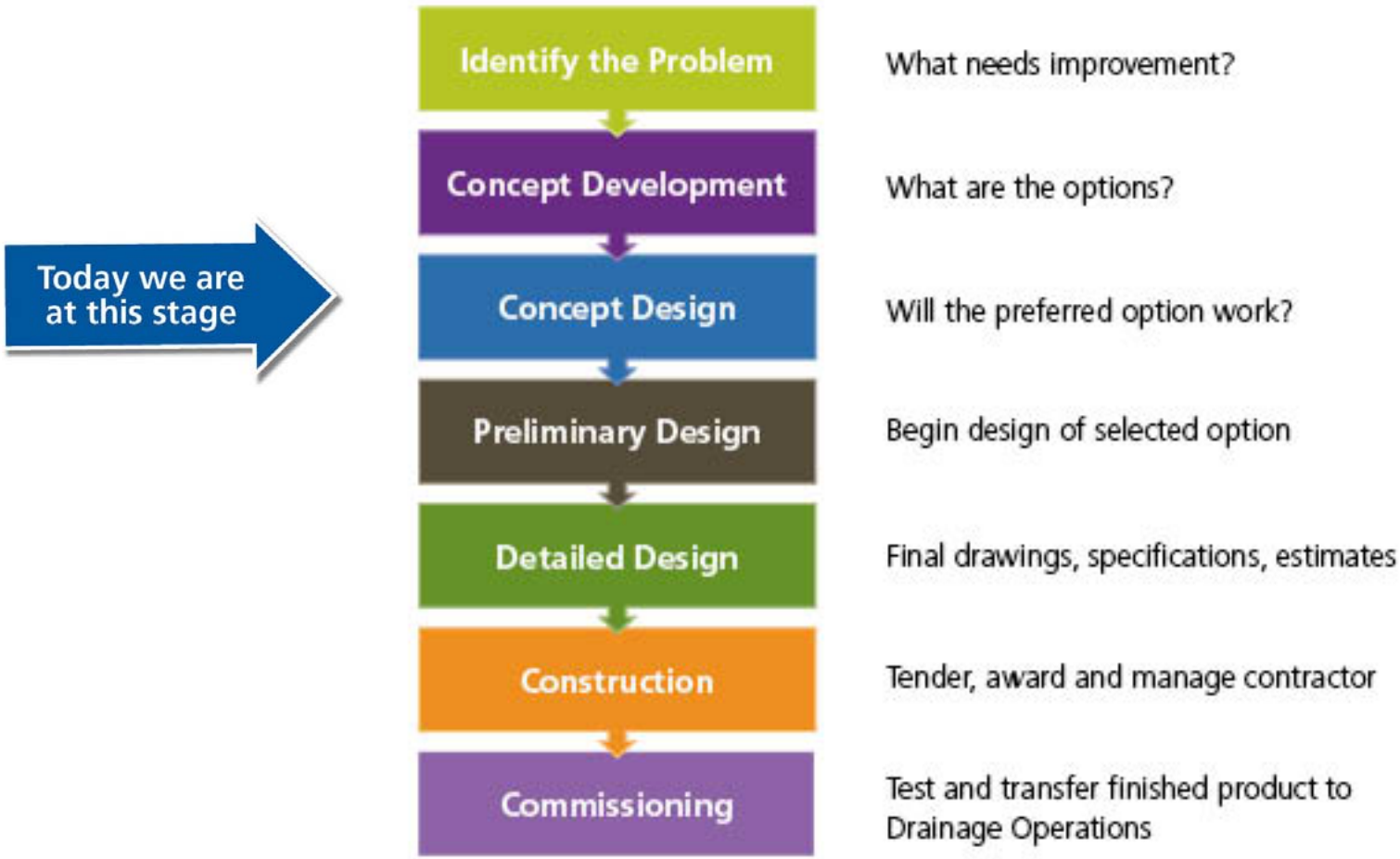
City of Edmonton

Current Status

- **$146M Flood Prevention Program and Financing Plan approved by Council**
- **Bearspaw Lake upgrades top priority**
- **Conceptual Design project for Bearspaw underway**

Drainage Services Engineering Project Life Cycle

Every engineering project goes through a number of stages before it is finally constructed and completed. At certain points in the project life cycle we would like your input before proceeding to the next stage.



Edmonton

City of Edmonton

Tonight's Meeting

1. Review need for flood prevention and various planned upgrades
2. Present lake improvement alternatives and potential site enhancement opportunities
3. Get your input and feedback

City of Edmonton

After Tonight's Meeting

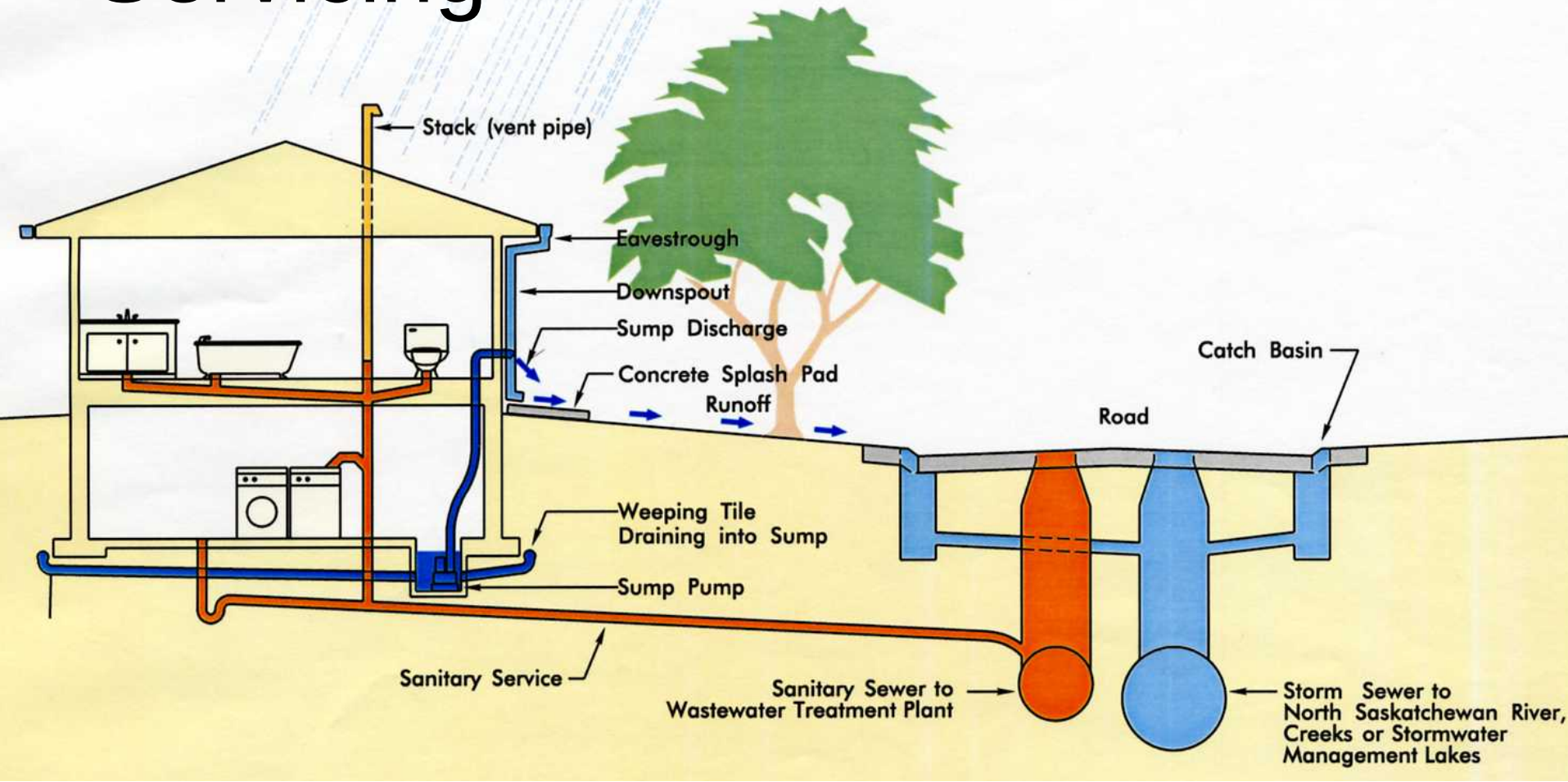
1. Summarize and share input
2. Incorporate input into planning
3. Develop conceptual design of favoured lake improvement alternative and site enhancements
4. Present to community in early 2007
5. Finalize design concept and initiate detailed design work

July 11, 2004 Flooding

Study Area

Basement Flooding
July, 2004

Typical New Home Servicing



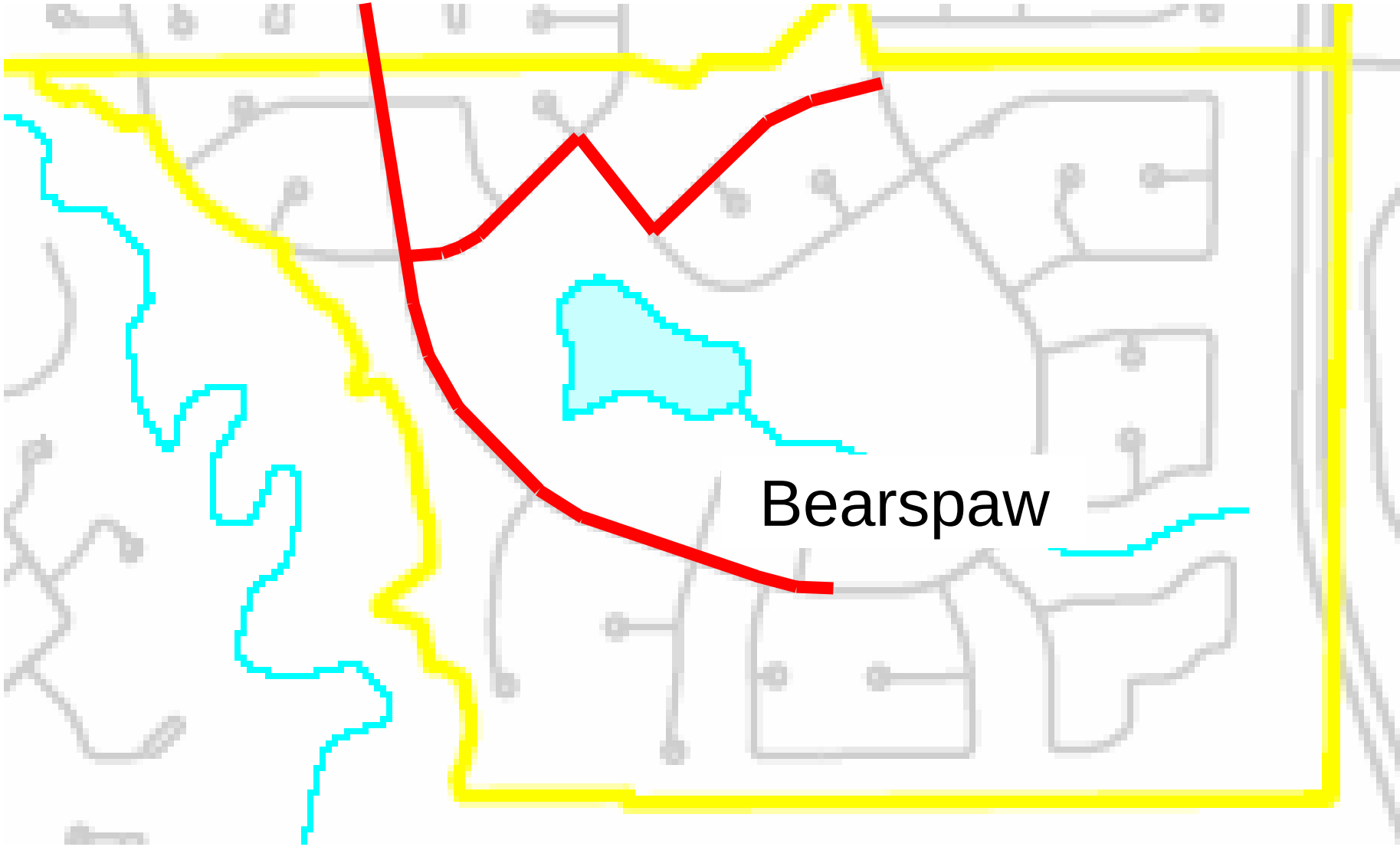
City of Edmonton

Bearspaw Findings

- Water volume exceeded capacity of storm sewer system
- Water volume ponded in low areas and could not flow to lake or creek
- Lake backed up contributing storm sewers
- Stormwater got into sanitary system
  - manhole covers
  - cross-filtration from storm sewers
  - weeping tiles

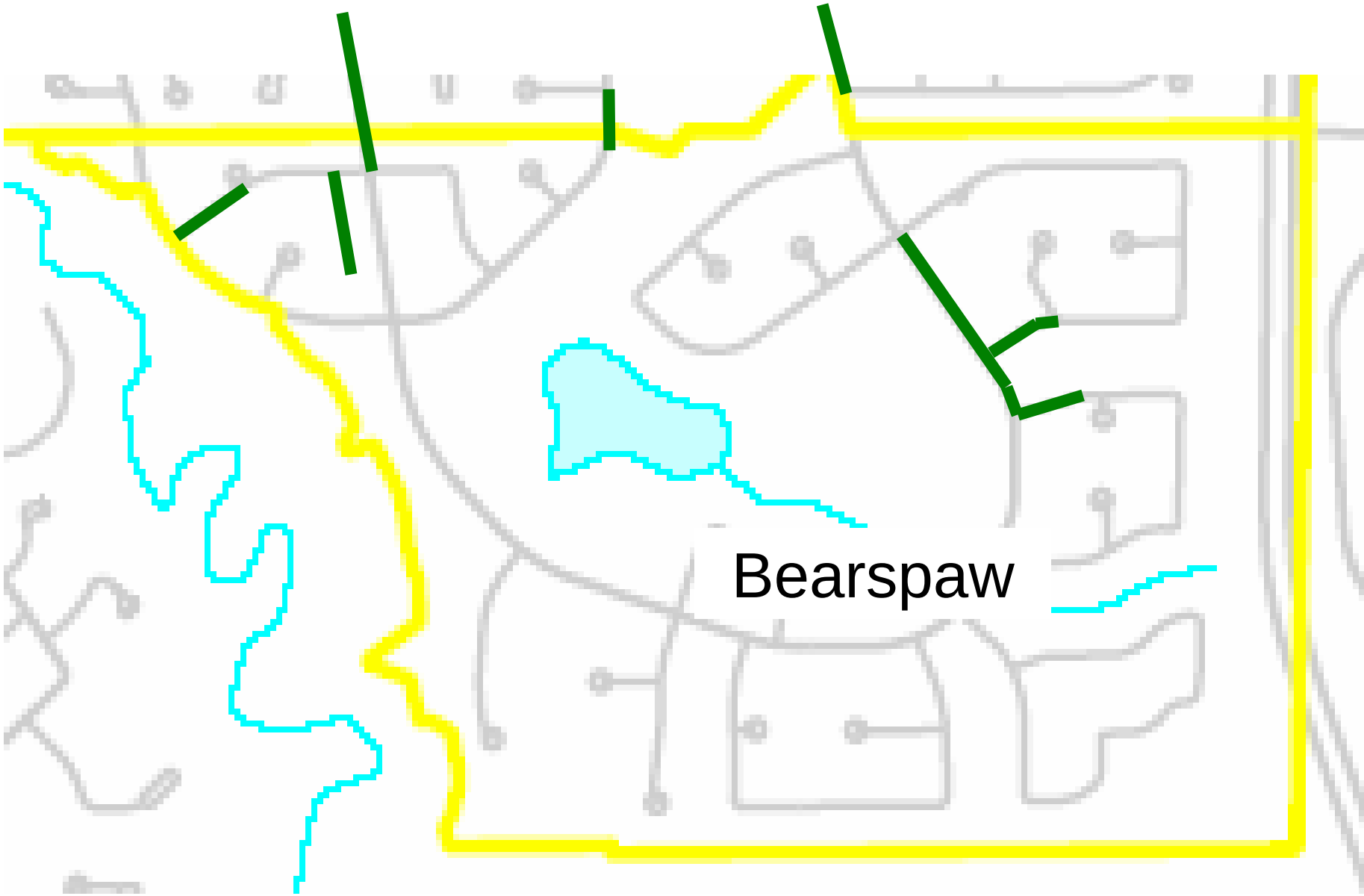
Sanitary Sewer System

Sanitary Sewer System Upgrades



Storm Sewer System

Storm Sewer System Upgrades



Bearspaw Lake