

Background

- **The West Thornhill area in Markham experienced significant flooding during August 2005 due to severe storm event.**
- **A Class Environmental Assessment (EA) Study was initiated to improve the level of protection in the affected area.**
- **Public Notices and two Public Information Meetings #1 and #2 have been completed**
- **Staff communicated a 5 year level of protection is preferred**
- **Council provided direction to present draft preferred alternative solution – 100 year level of protection**

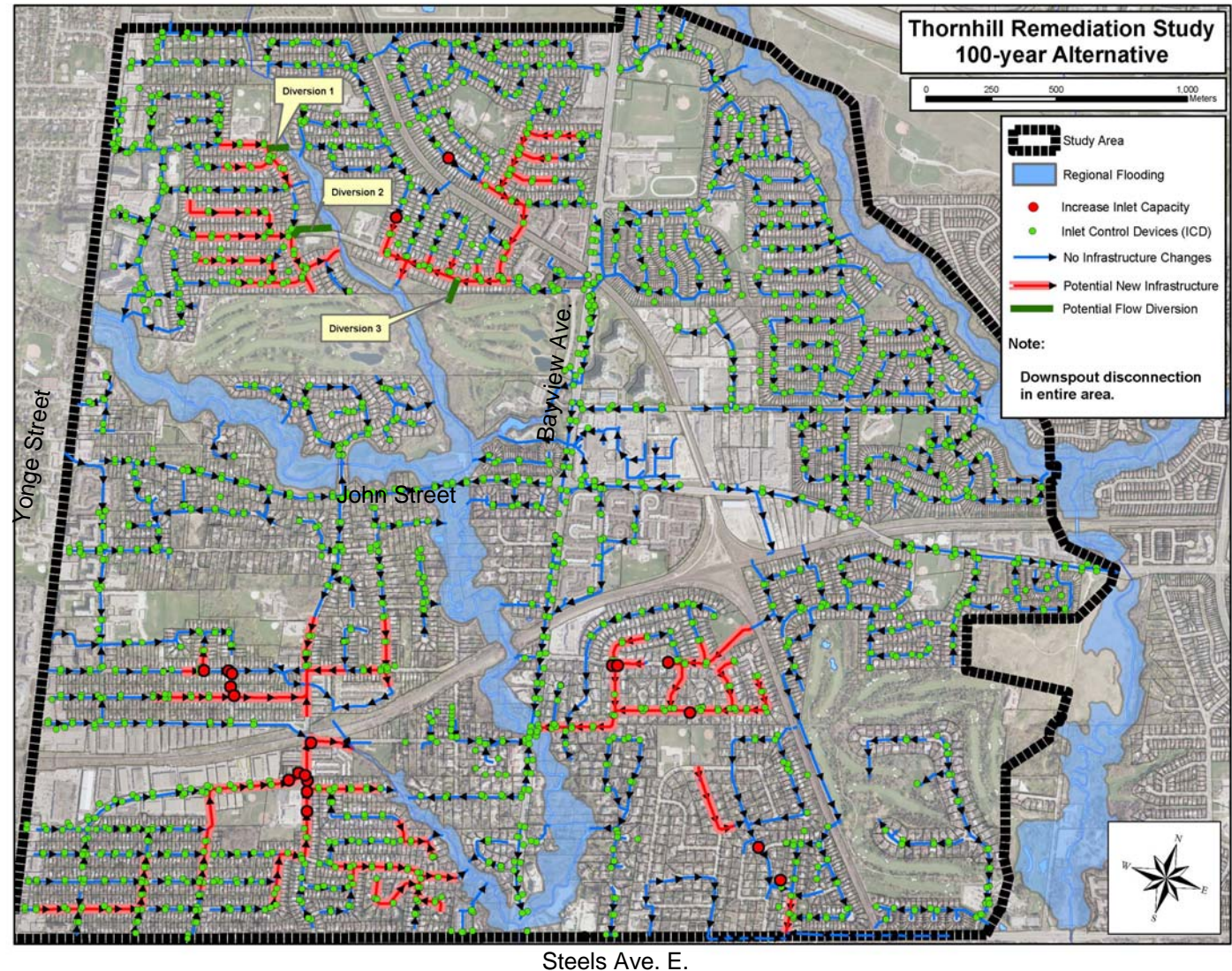
Alternative Solutions

- **Each alternative solution (except for Do Nothing) is a combination of:**
 - ❖ Downspout disconnection
 - ❖ Inlet control devices (to reduce surface flow into storm sewers where there is no capacity)
 - ❖ New catchbasins (to increase surface flow into storm sewers where there is capacity)
- **Potential new infrastructures (twining sewers and diversions) are only considered for basement flood prone areas only**
- **The variety of Alternatives have been evaluated for each of the following storm event return periods**
 - ❖ Alternative #1: Do Nothing
 - ❖ Alternative #2: 5 year level of protection (\$17 Million)
 - ❖ Alternative #3: 25 year level of protection (\$33 Million)
 - ❖ Alternative #4: 100 year level of protection (\$40 Million)

West Thornhill Stormwater Flood Remediation Class EA Study

Selection of Alternative Solutions

- Alternatives evaluated based on four Evaluation Criteria
- PIC #2 presented the draft preferred alternative – 100 year protection. Only one objection was received from the public



•Therefore Alternative #4 – 100 year level of protection is recommended to be the preferred alternative (\$40 Million)

Town-wide Implications and Financial Impacts

Level of Protection	West Thornhill	Rest of Town (Projected)	Total Cost
Stormwater – 100 year level of protection	\$40 Million	\$ 77 Million	\$117 Million
Sanitary	\$37.5 Million	\$ 72 Million	\$109.5 Million
Total	\$77.5 Million	\$149 Million	\$226.5 Million

- The cost associated with the rest of Town is estimated only based on prorating the cost of the Thornhill area and applying it to the rest of the Town. The actual cost may be substantially different depending on the further detailed studies.

Next Steps

- Consultants and Town to finalize Class EA / Master Plan Report.
- Notice of Completion to be sent to MOE, all review agencies and public three weeks before the commencement of review.
- Class EA report to be made available for agencies and public review and commenting for a 30 day review period (Early 2010)
- Comments or concerns to be received by the Town within the 30 days
 - ❖ This is an opportunity for public and review agencies to request the Minister of the Environment to require the Town to comply with Part II of the EA Act which addresses individual EA – known as Part II Order
 - ❖ Procedure to request a Part II order
 - A person or Party with a concern should bring it to the Town's attention during the EA study and 30 day review period;
 - If a concern is not resolved through discussions with the Town, the person or party may request the Town to voluntarily elevate a Schedule B project to Schedule C or to an individual EA;
 - If the Town declines, the person or party may write to the Minister of MOE and request a Part II Order within the 30 days review period. These requests shall be copied to the Town at the same time.
 - ❖ Minister's Decision
 - Deny the request for a Part II Order and the project may proceed;
 - Refer the Matter to Mediation;
 - Request the Town to comply with Part II of the EA Act.
- Provided that no significant impacts are found and no requests are received to elevate the project to Schedule C or undertake the project as an individual EA (Part II Order), the project may proceed to detailed design and Staff will report back on implementation strategy (resource requirements, finance options, Town-wide implications, phasing strategy, value engineering, detail design and construction schedule for the initial phase)