# Southeast Brandon Drainage Improvements Project



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- What: Construction of new stormwater infrastructure in the southeast area of Brandon to augment and expand upon the existing drainage network.
- Why: Southeast Brandon has a drainage network that is currently incomplete and inadequate. Continued development in the southeast without the project would increase risk of overland flooding and potential surcharge of domestic sewer systems.



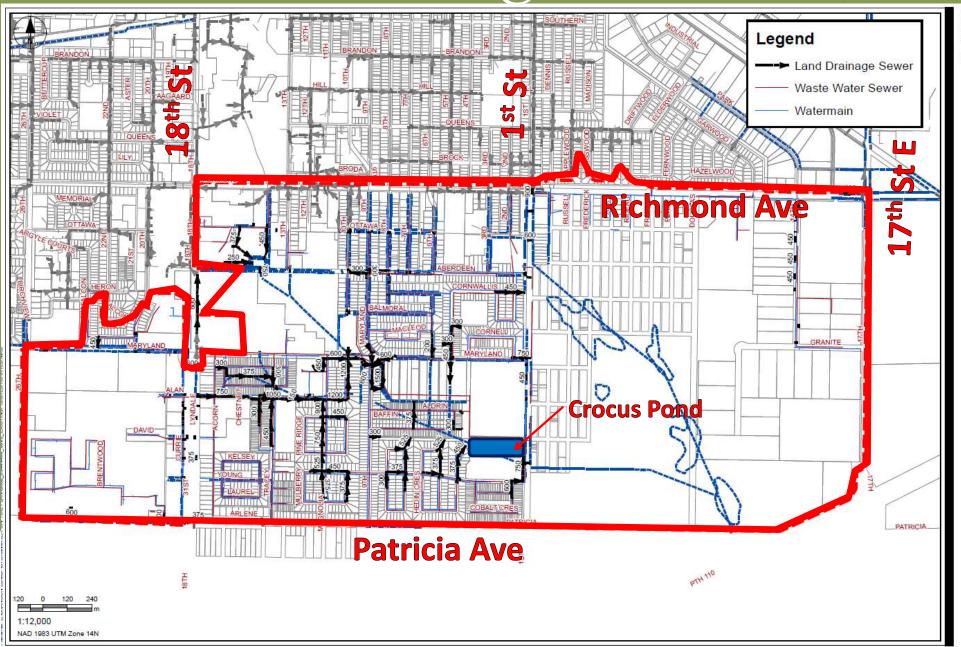
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Project Funding:
 City Administration is proposing a debenture through general borrowing, requesting a borrowing authority of \$30.14 million.

 Several debentures will be issued based on cash flow requirements over the various project phases and multiple years.



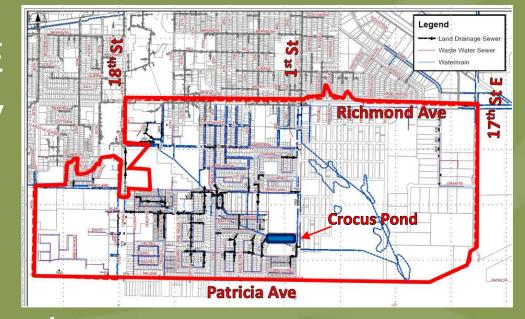
### Southeast Drainage Catchment



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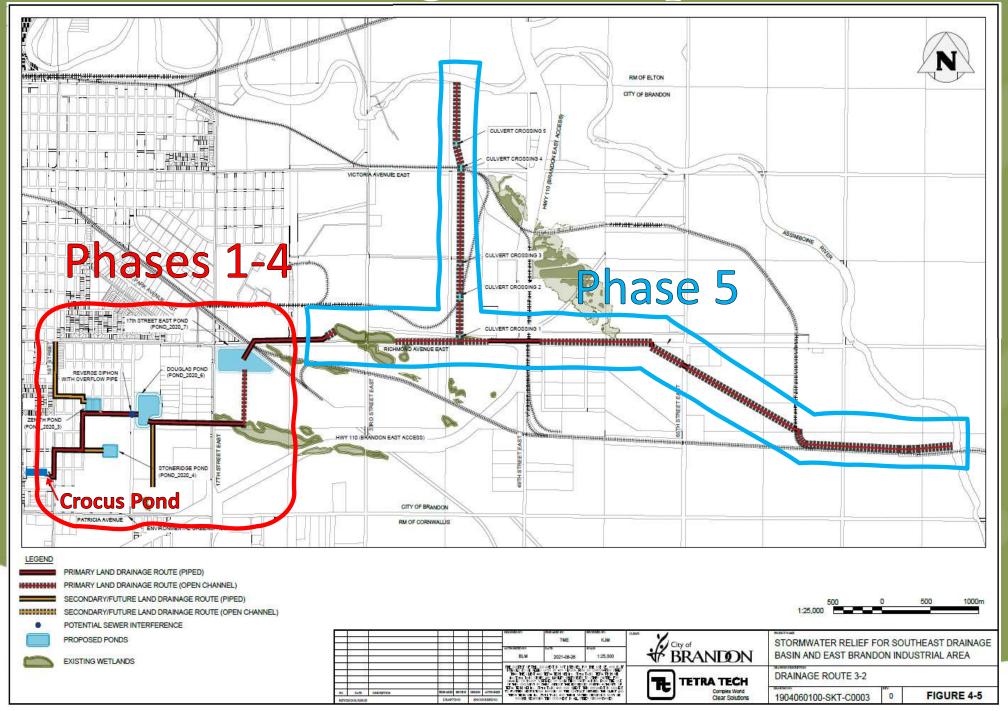
- Existing catchment is roughly bounded by Richmond Ave, Patricia Ave, 26<sup>th</sup> St and 17<sup>th</sup> St E
- Drainage predominantly flows in a southeast direction and currently terminates in the pond south of Crocus Plains Regional Secondary School

(Crocus Pond)





#### Southeast Drainage - Concept Overview



#### Southeast Drainage – Concept Overview

- A multi-phased drainage project to augment and expand the existing drainage network that currently ends at Crocus Pond along 1st Street South
- Currently proposed with 5 phases of construction
- Detailed design of phases 1-4 currently underway



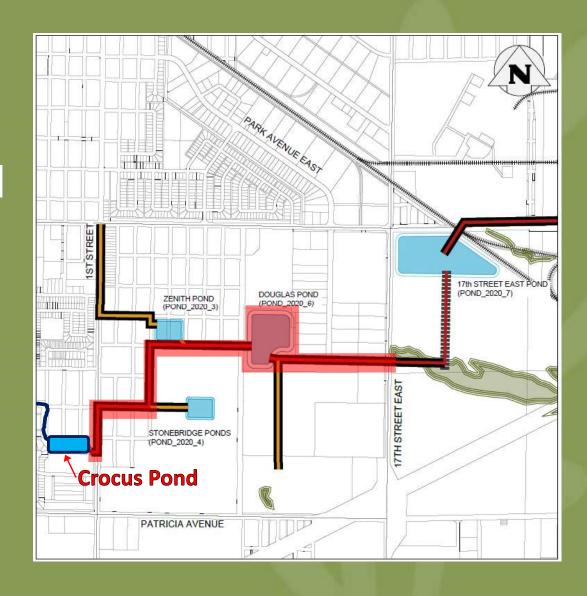
- Phases 1 4 include:
  - Construction of new trunk sewer and drainage infrastructure
  - Construction of new stormwater retention ponds
  - Modifications to existing pond and channel
  - Re-establish overland flow to proposed environmental preserve



- Proposed drainage works will address:
  - Incomplete drainage network
  - Drainage relief for adjacent sub-catchment areas

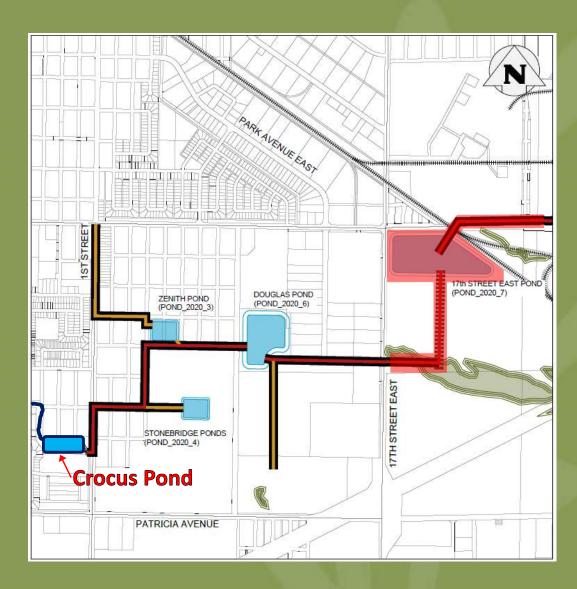


- Outlet from Crocus Pond
- Douglas pond and storm sewer from 1st St to 17th St E
- Anticipated construction commencing Summer 2022



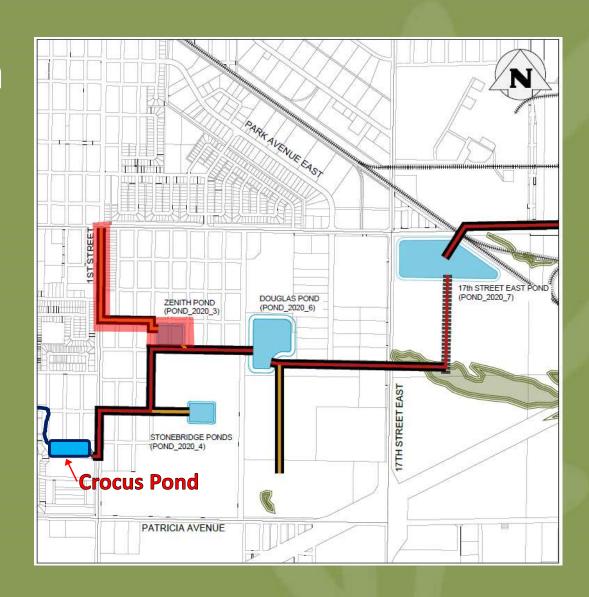


- Extension of Phase 1
- Large retention pond
- Outlet across
  Richmond Ave
- Maintain flows to existing wetland east of 17<sup>th</sup> St E



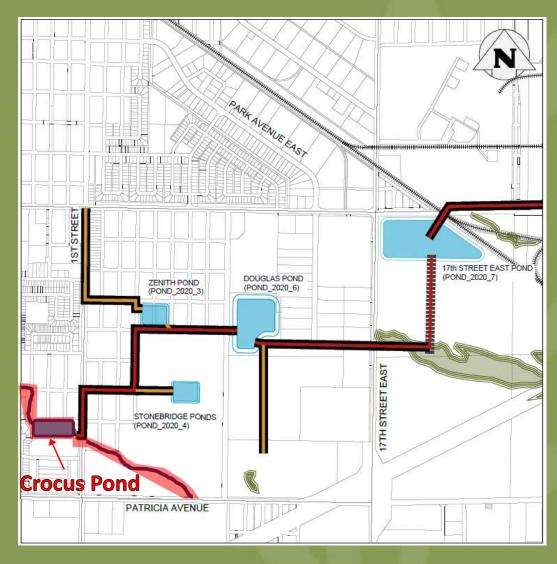


- Relief sewer from 1<sup>st</sup> St and Richmond Ave
- New retention pond
- Connection to Phase 1 storm sewer

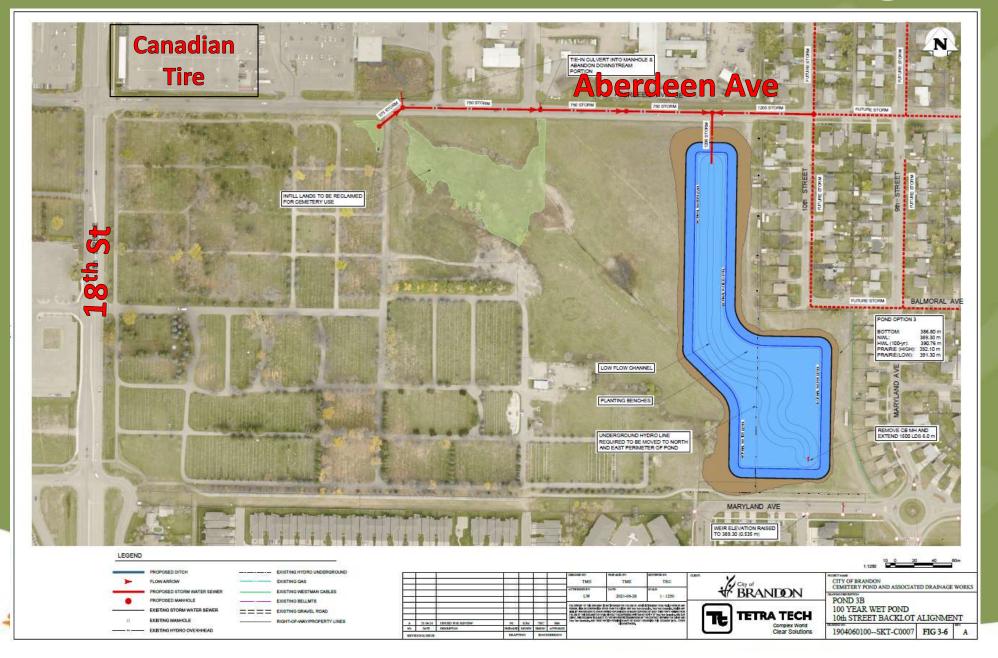




- Construction of small pump station
- Irrigation through environmental preserve







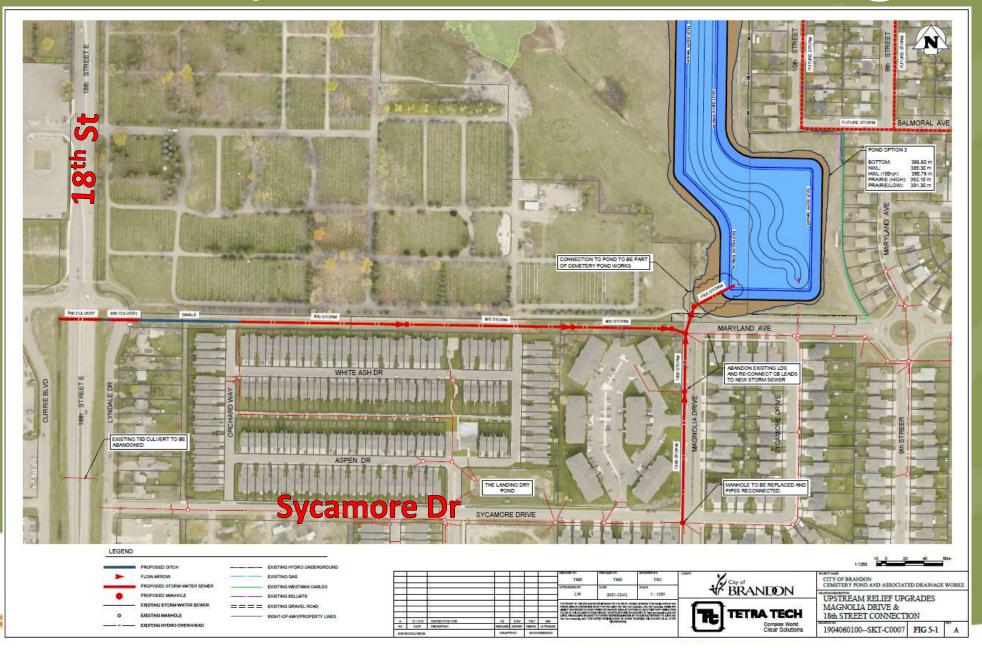
- Works include detailed design and construction of:
  - Stormwater retention pond
  - Stormwater sewers
- Works addresses:
  - Increased drainage capacity
  - High risk overland flood areas



- New stormwater retention pond
- New storm sewer along Aberdeen Ave
- Allows for future expansion of storm sewer network









- New drainage infrastructure along southside of cemetery
- New storm sewer on Magnolia Dr
- Works completed after Cemetery retention pond to provide relief to overland flood prone areas

