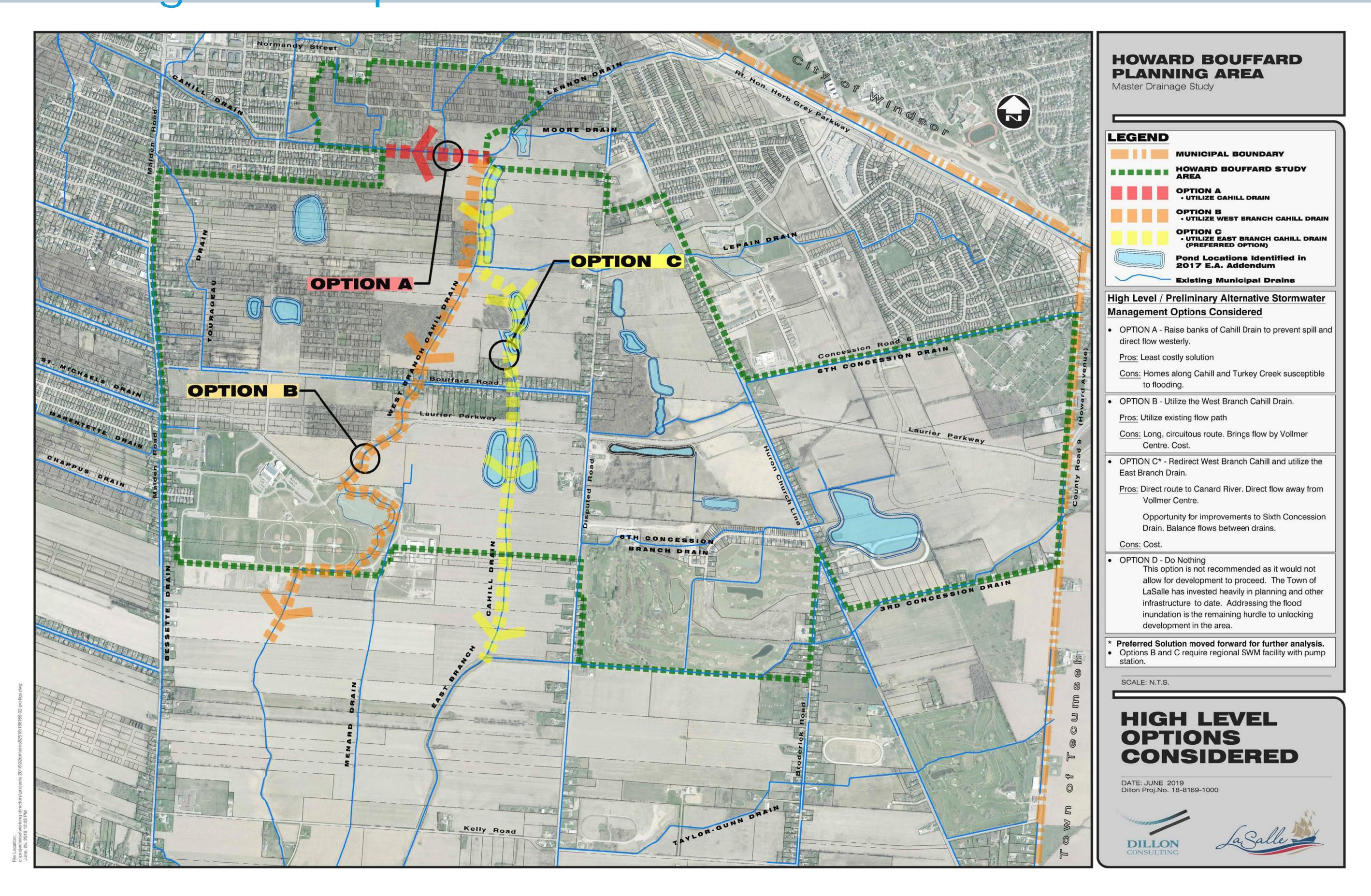
#### High Level / Preliminary Alternative Stormwater Management Options Considered



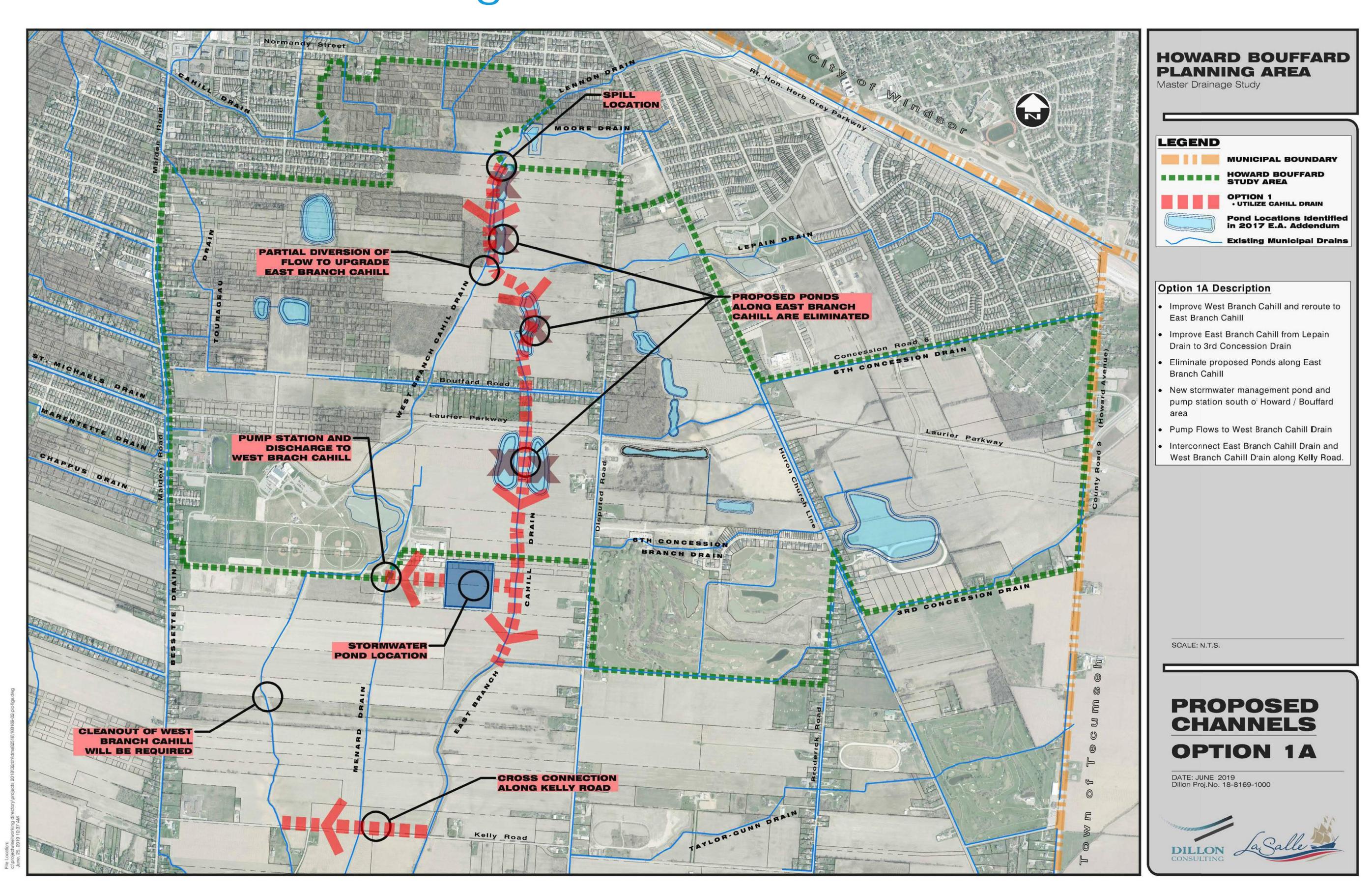




# Alternative 1A Eliminate Ponds Along East Branch Cahill



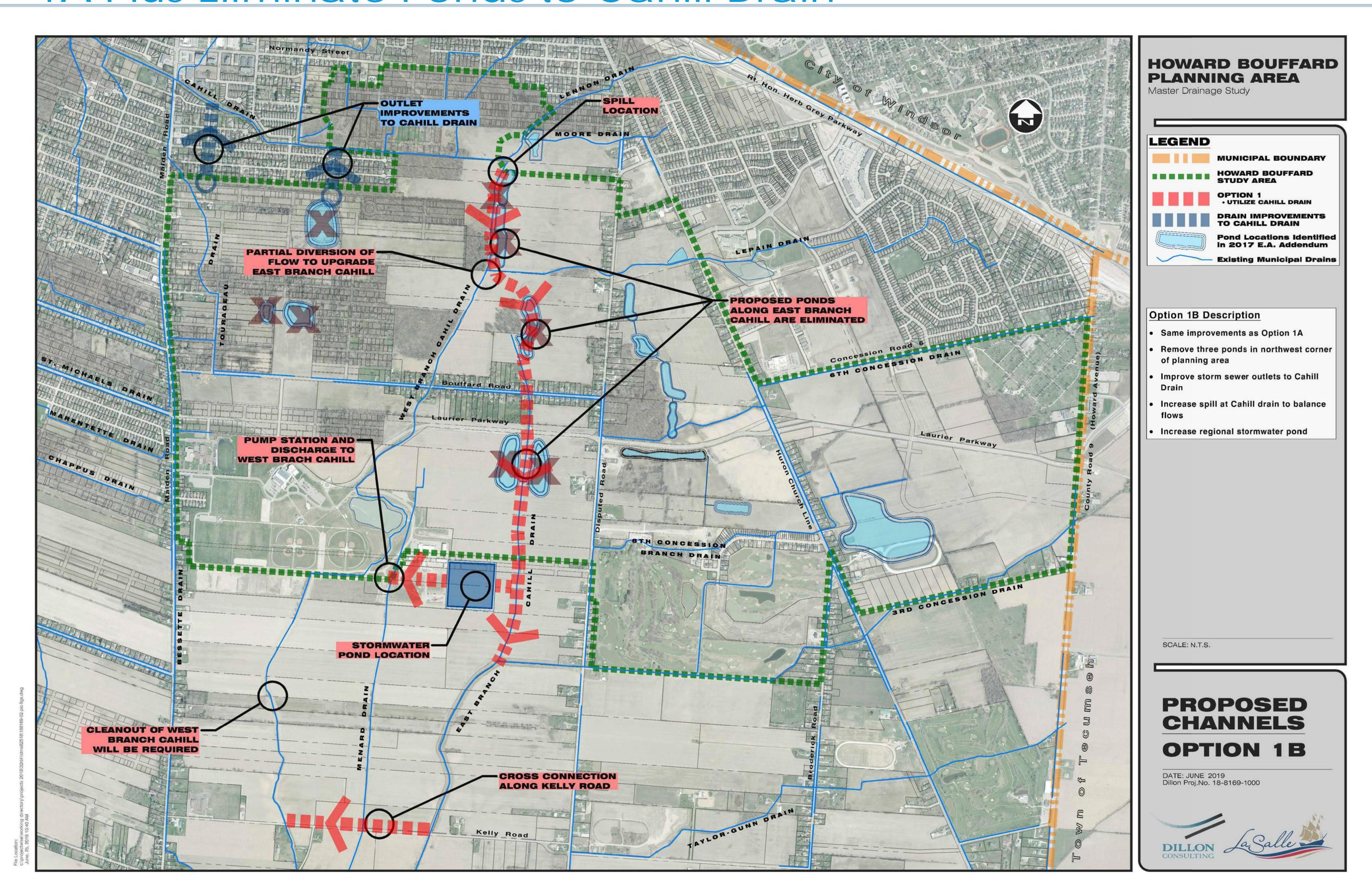




## Alternative 1B 1A Plus Eliminate Ponds to Cahill Drain



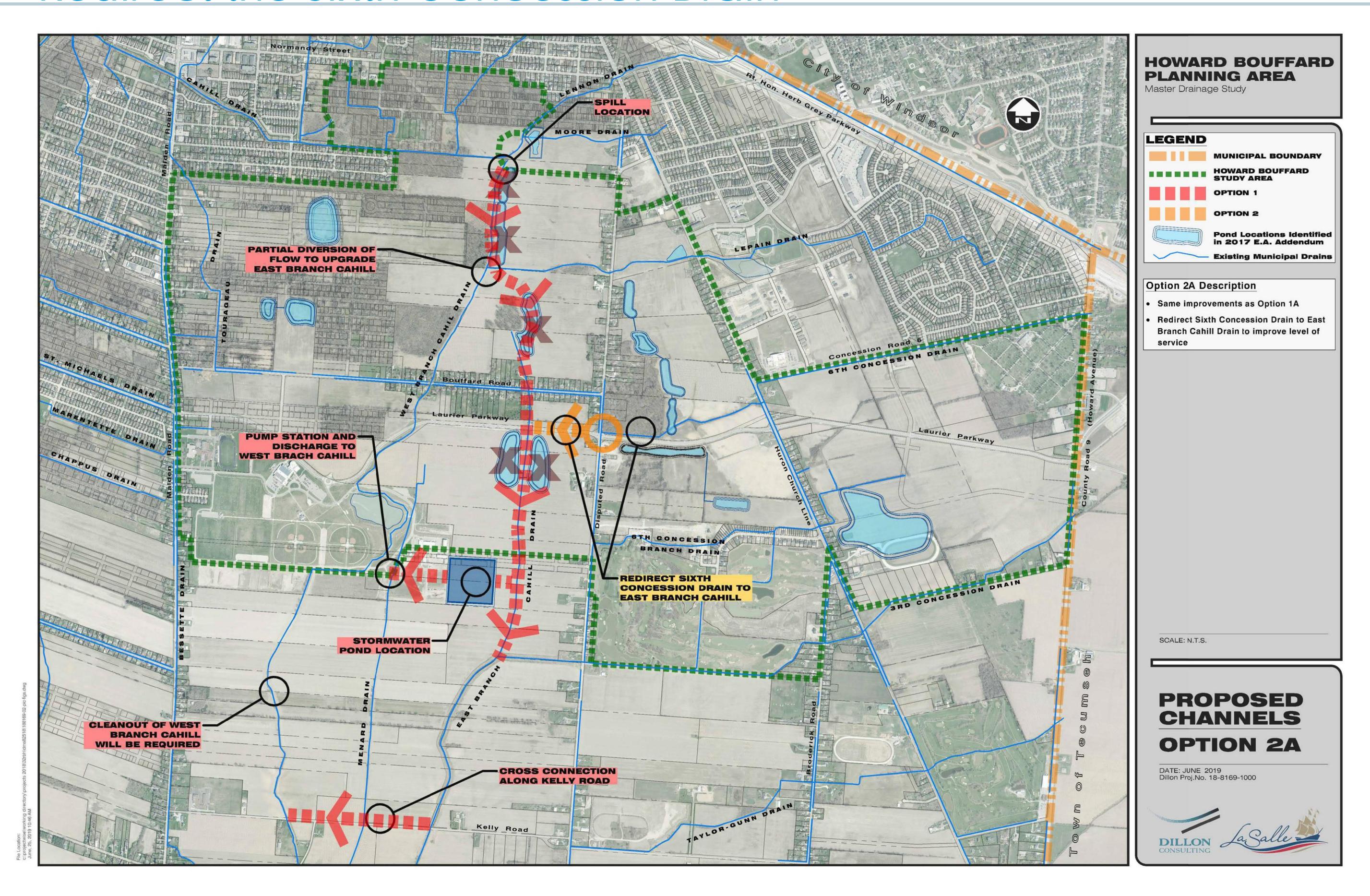




## Alternative 2A Redirect the Sixth Concession Drain



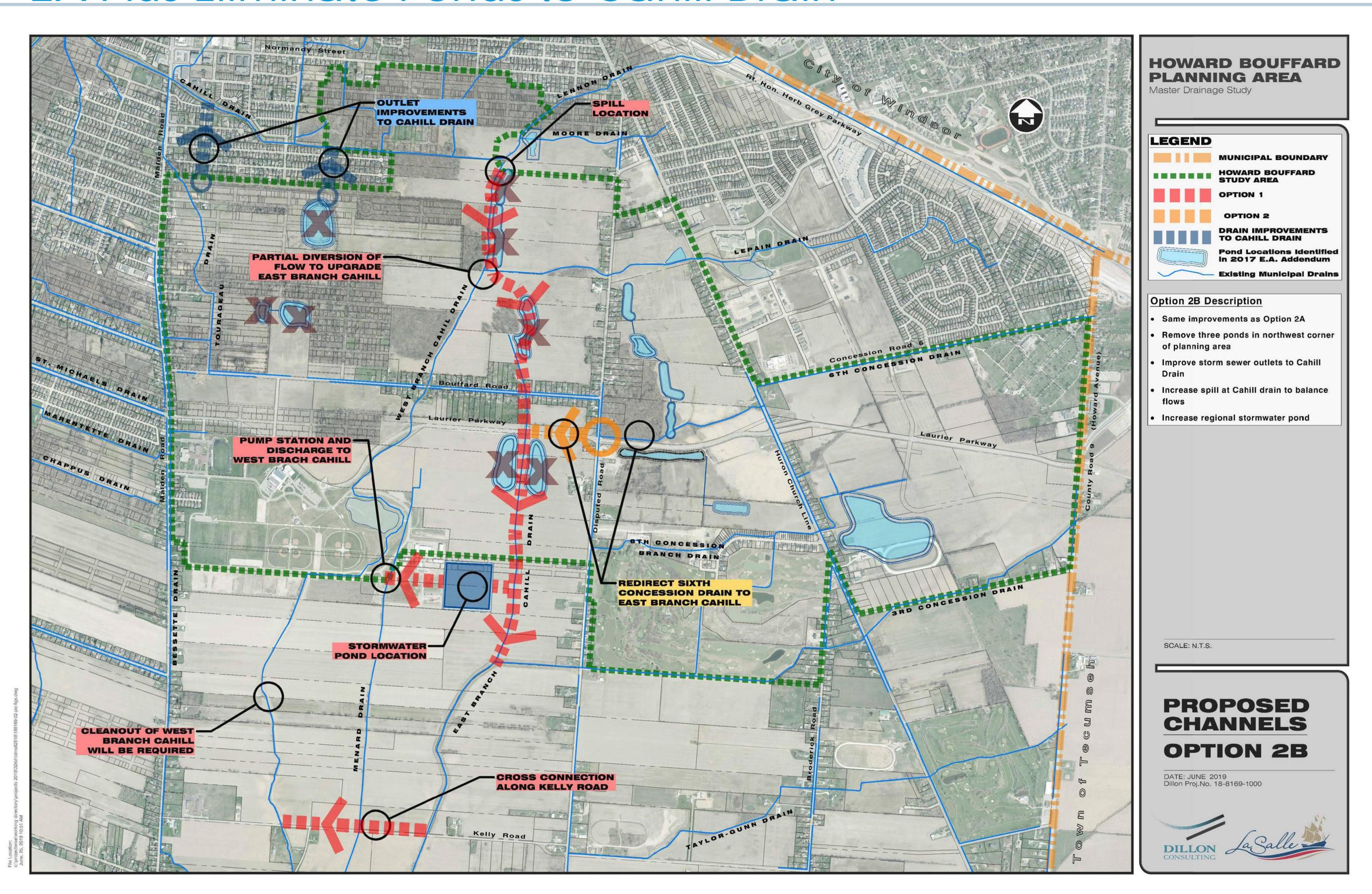




### Alternative 2B 2A Plus Eliminate Ponds to Cahill Drain



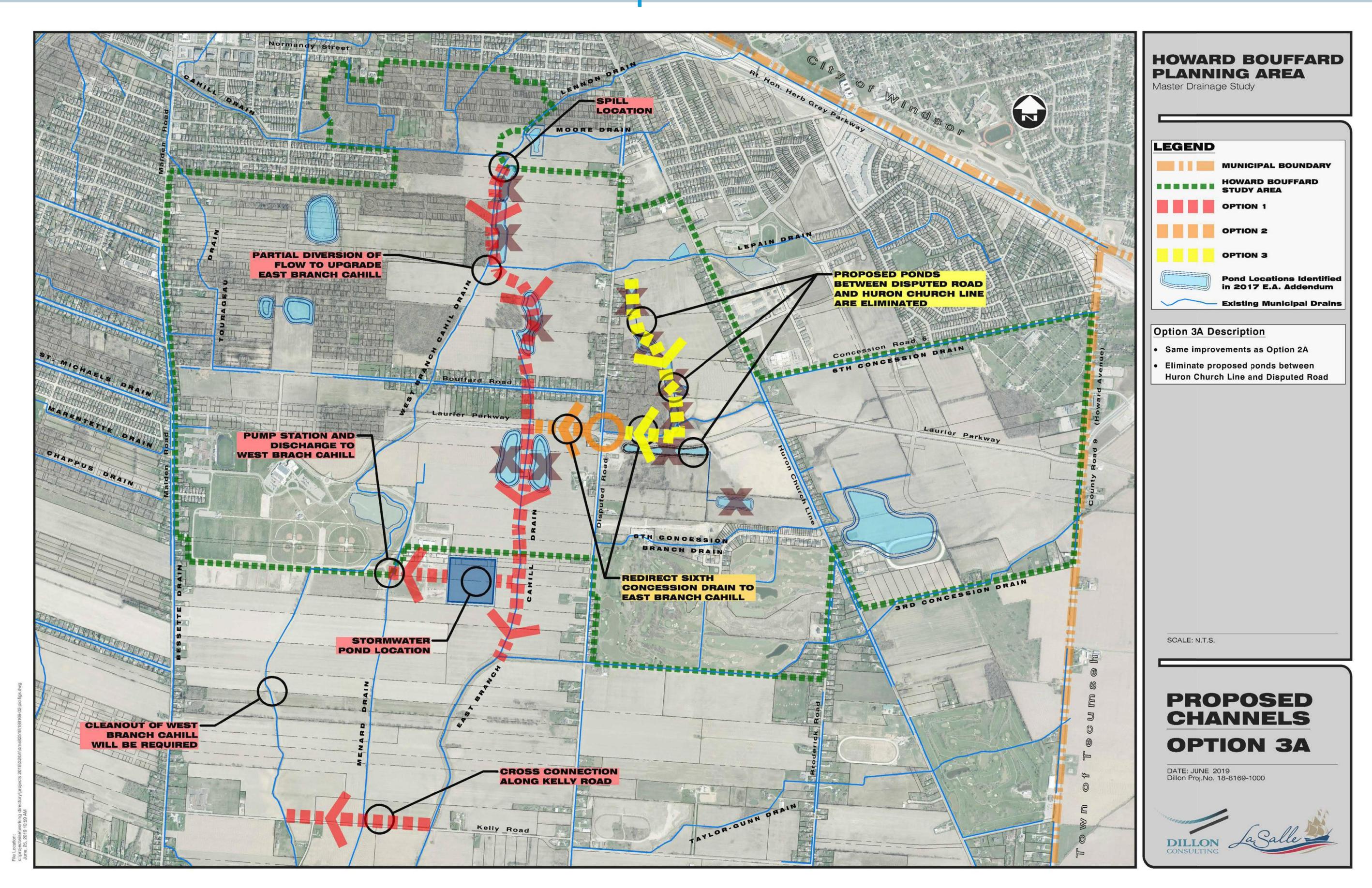




#### Alternative 3A Eliminate Ponds Between Disputed and Huron Church



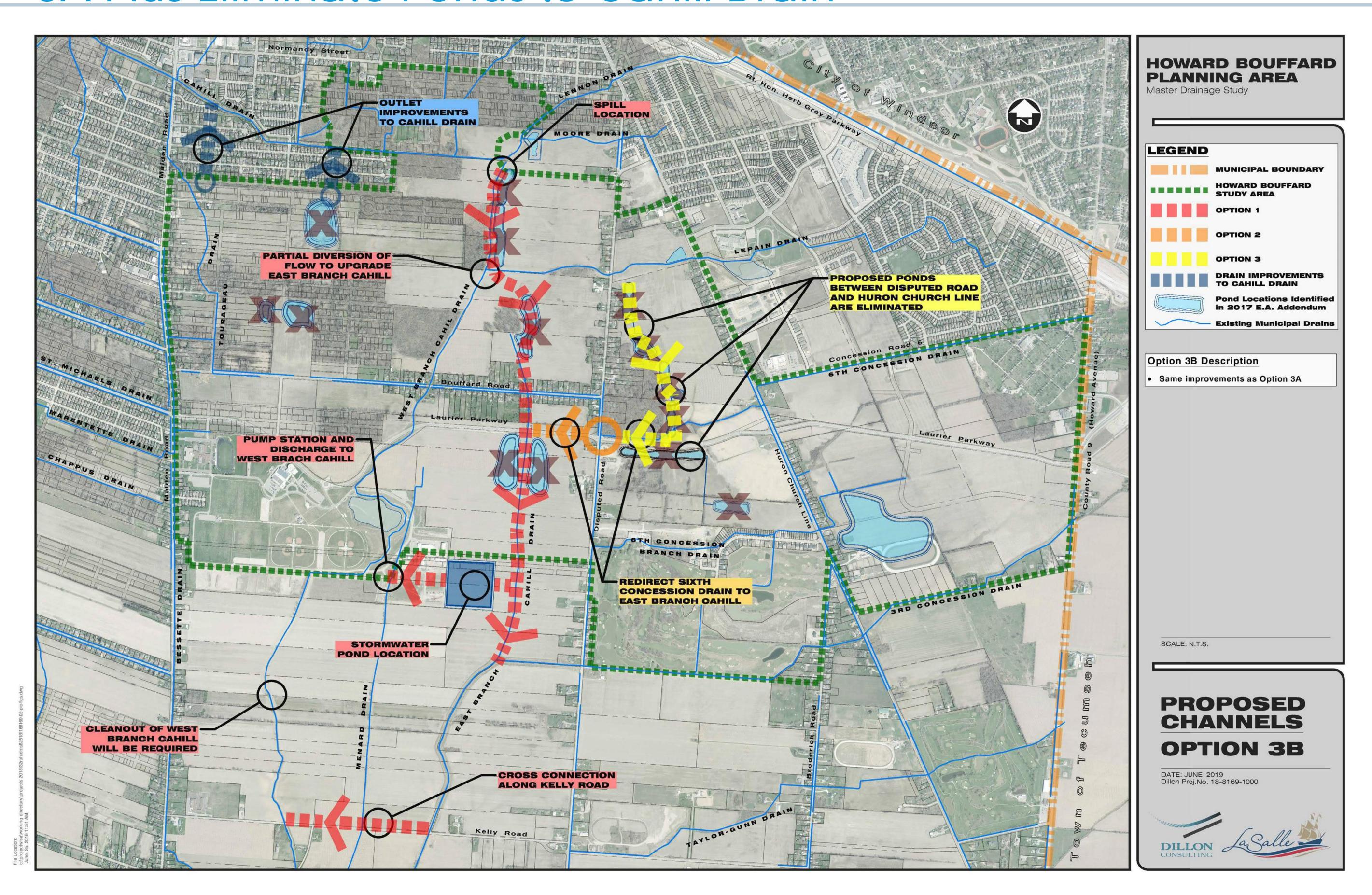




## Alternative 3B 3A Plus Eliminate Ponds to Cahill Drain



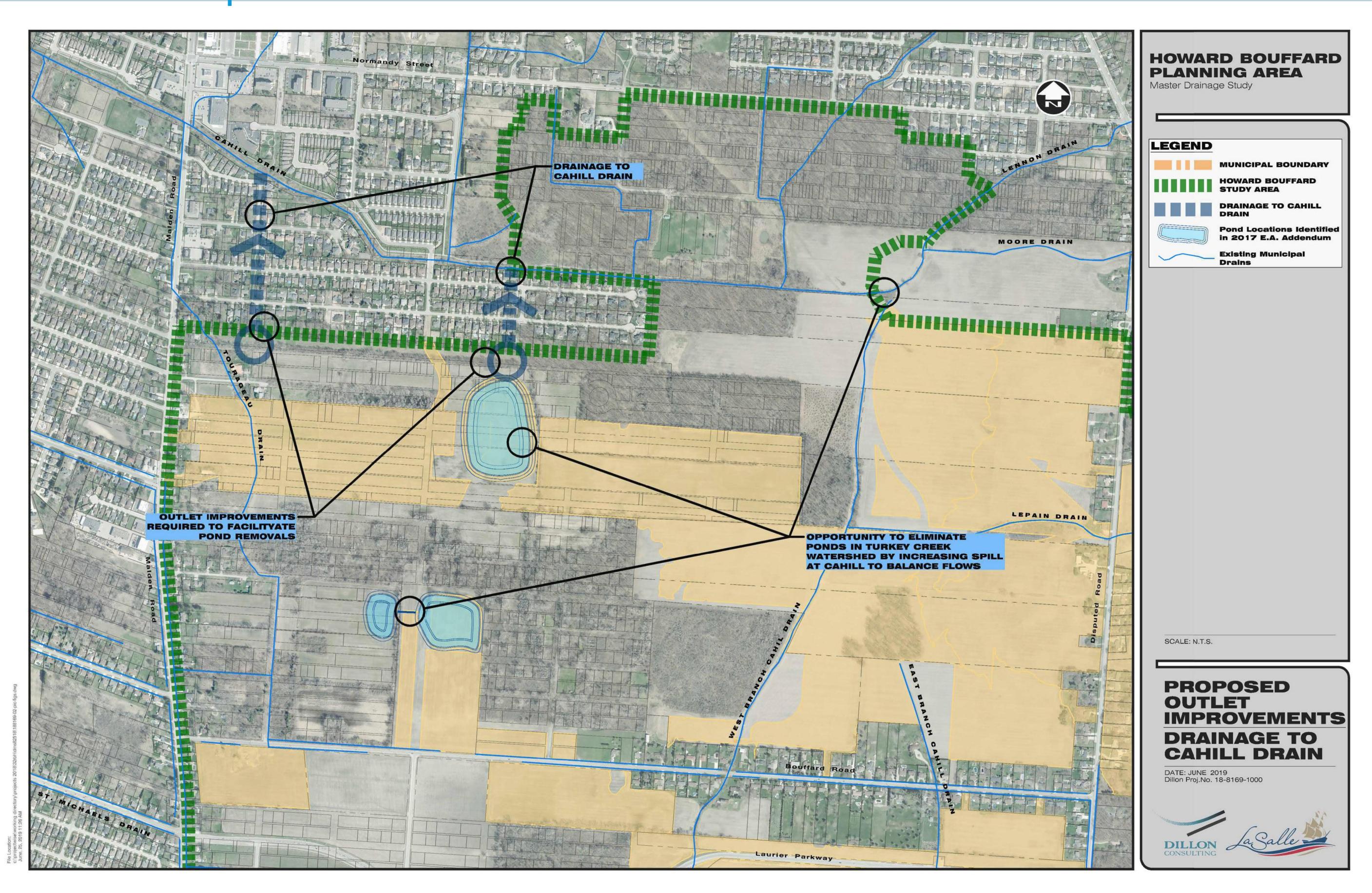




# Alternative 1B, 2B and 3B Outlet Improvements to Cahill Drain







#### Regional Pond Sizing





Proposed Option	Pond Footprint (m)	Storage Volume Required – 100yr24hr Chicago (m³)	Pond Depth (m) (Including 0.5m Freeboard)
Option #1A	222 x 222	110,000	3.17
Option #1B	230 x 230	149,000	3.95
Option #2A	224 x 224	119,000	3.35
Option #2B	232 x 232	157,000	4.12
Option #3A	228 x 228	139,000	3.75
Option #3B	277 x 277	212,000	3.72

- § 190m x 190m Pond Bottom For Options 1A to 3A
- § 240m x 240m Pond Bottom for Option 3B
- § 5:1 Side Slopes

#### **Evaluation Criteria**





Input received today will be used to finalize and evaluate the design options.

The EA process requires alternatives be developed and evaluated based on potential impacts to the environment, as well as engineering considerations and costs.

The following criteria were considered in the evaluation of alternatives.

Additional Benefits Risk Assessment Address known issues and Impacts on downstream opportunities for waterways and landowners efficiencies Recommended Alternative Economic/Financial Land Requirements Relative cost (order of Impacts on existing residential magnitude) and agricultural properties Natural Environment Cultural Heritage Public & Agency Input Minimizes negative impacts on the Impacts on archaeological natural environment resources and heritage resources

#### Recommended Alternative 3B





