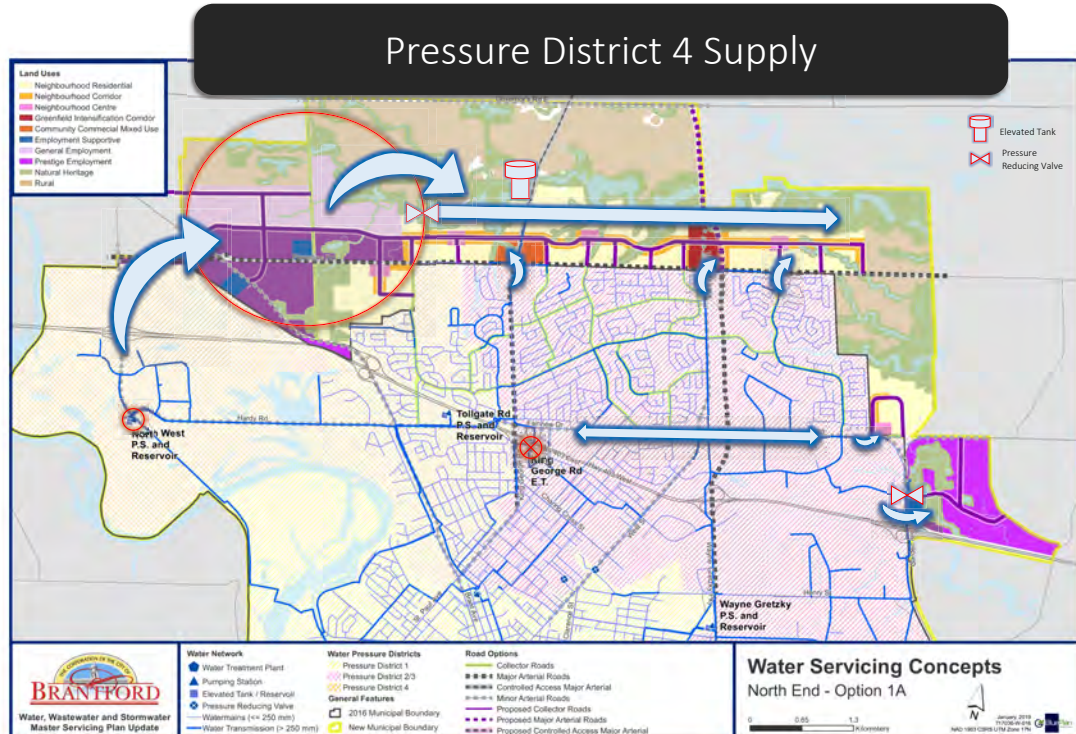
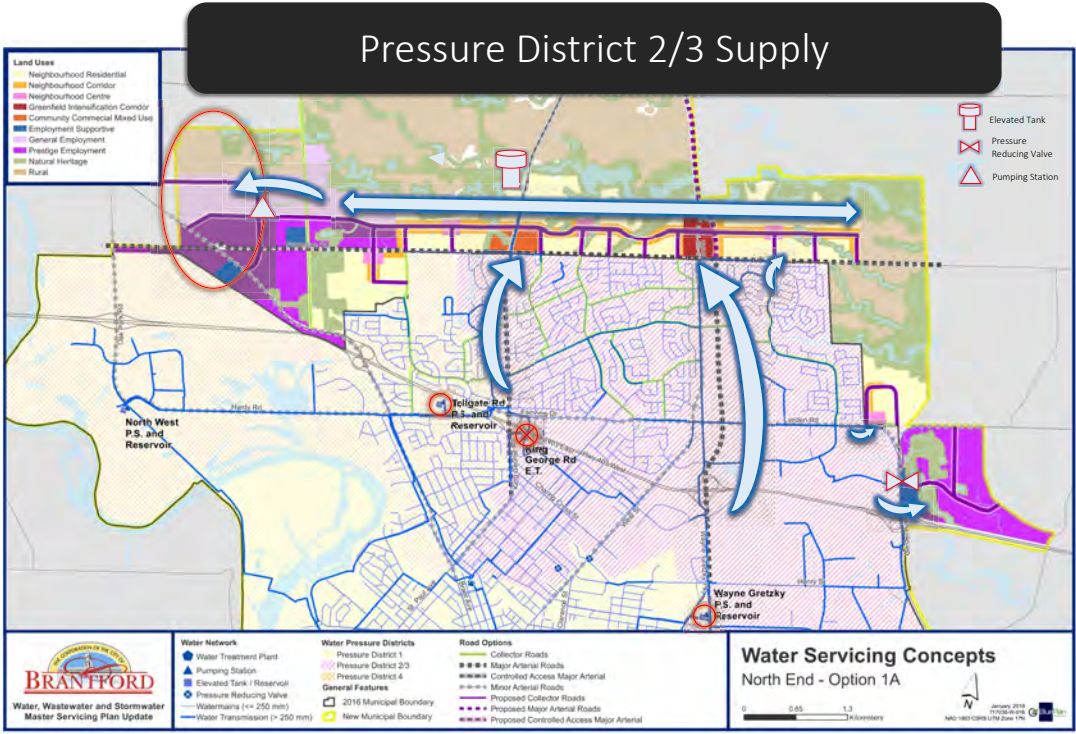
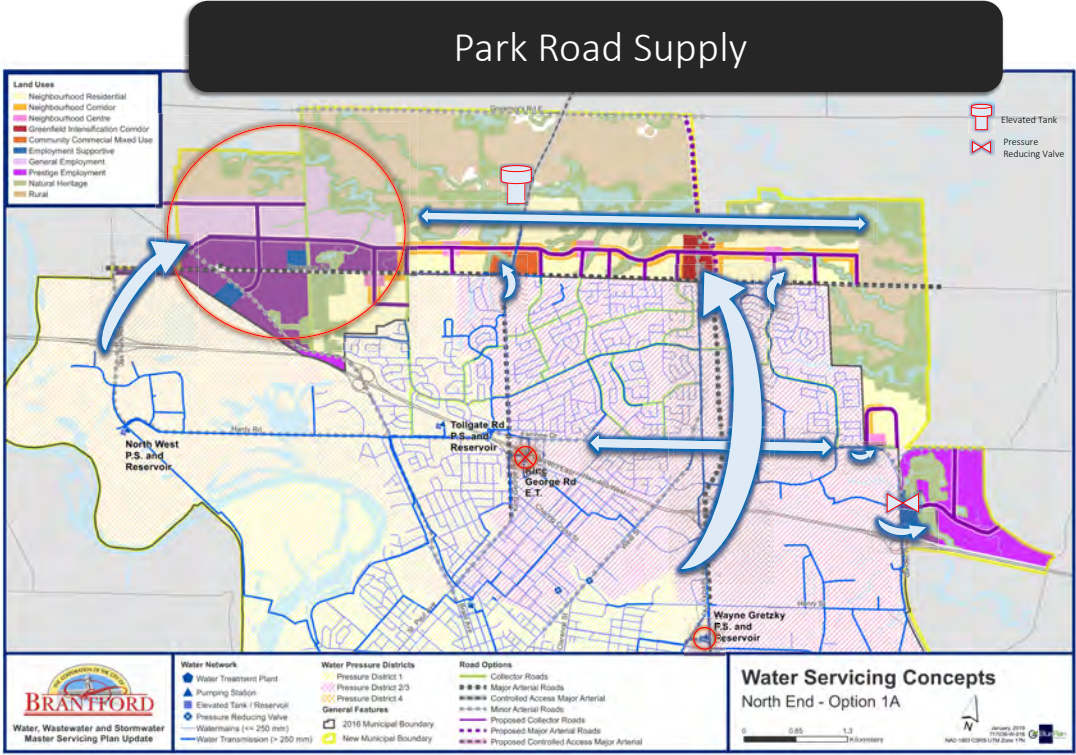
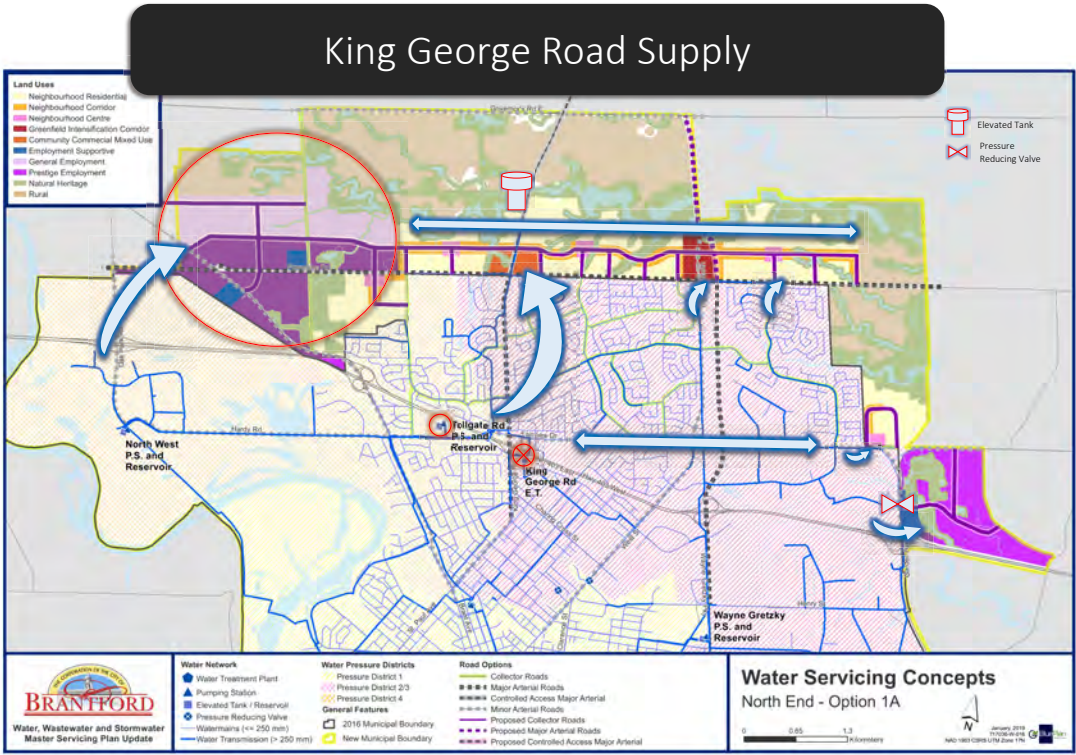


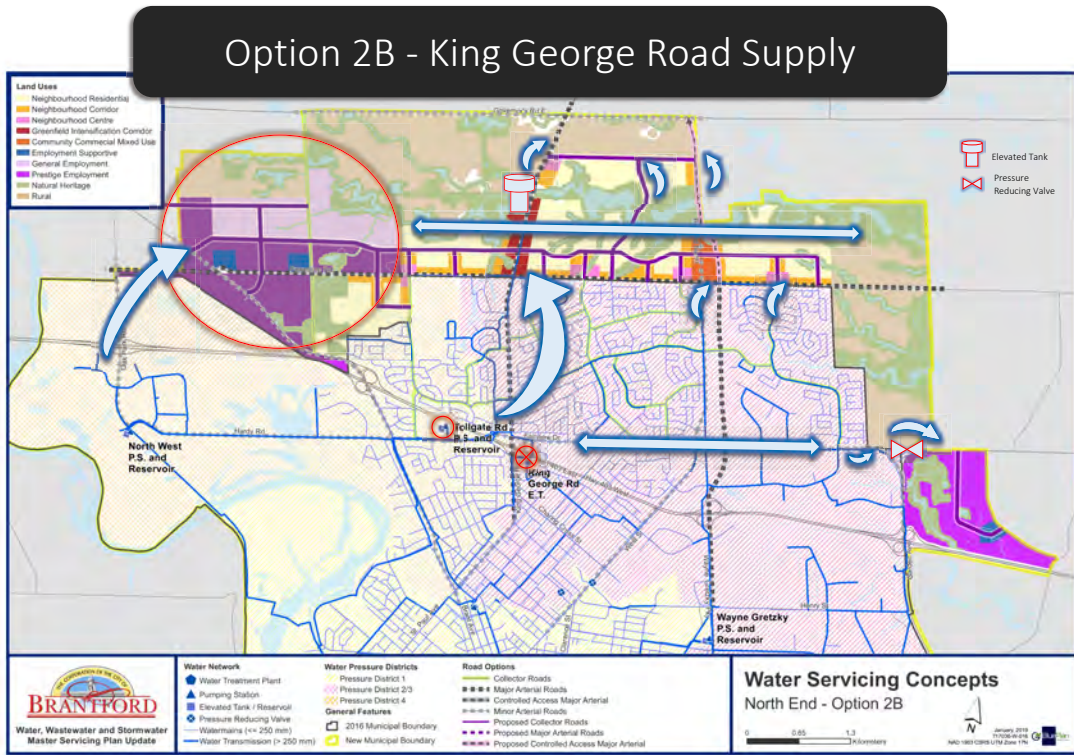
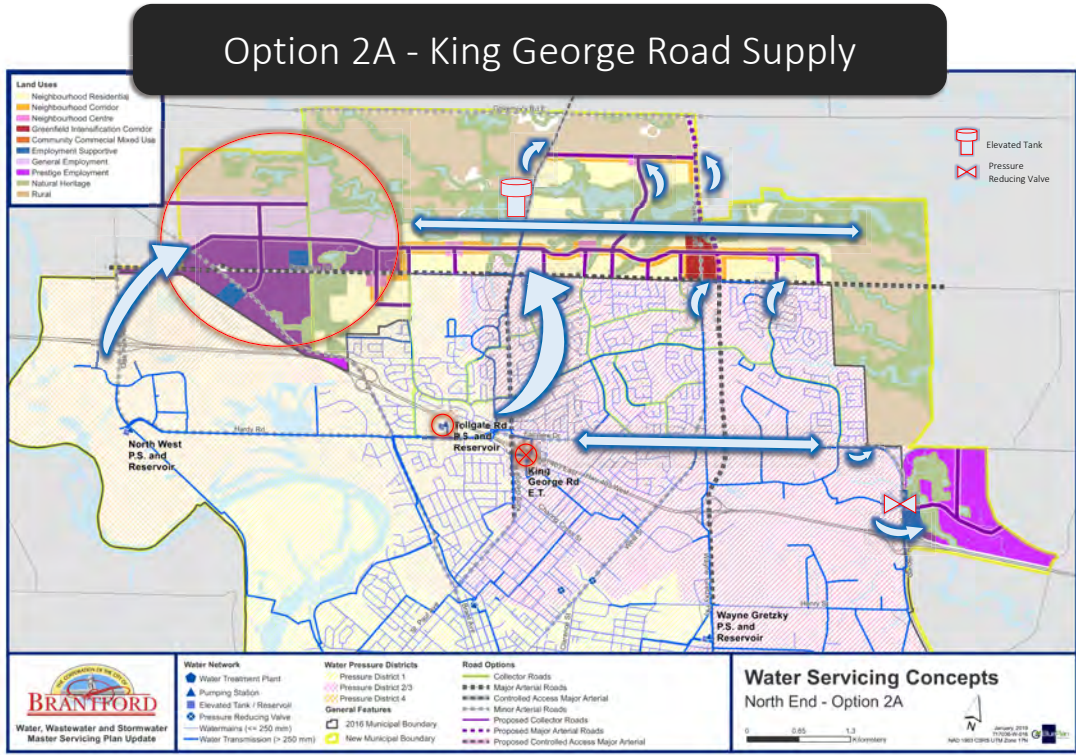
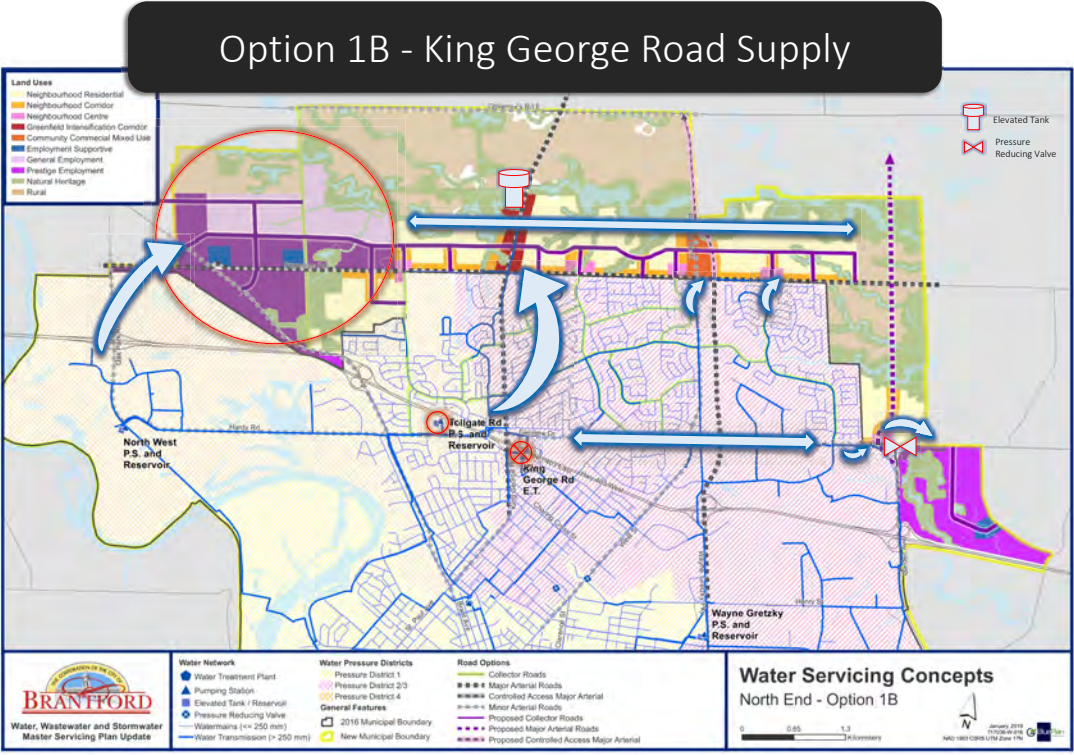
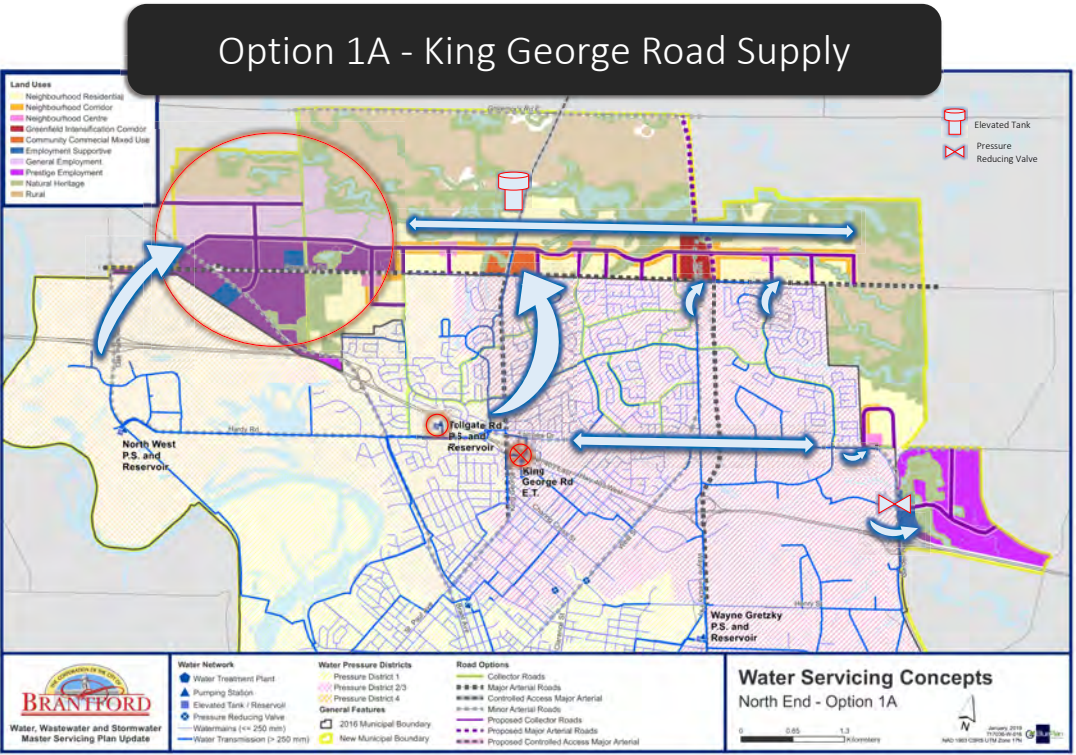
Water Servicing Concepts



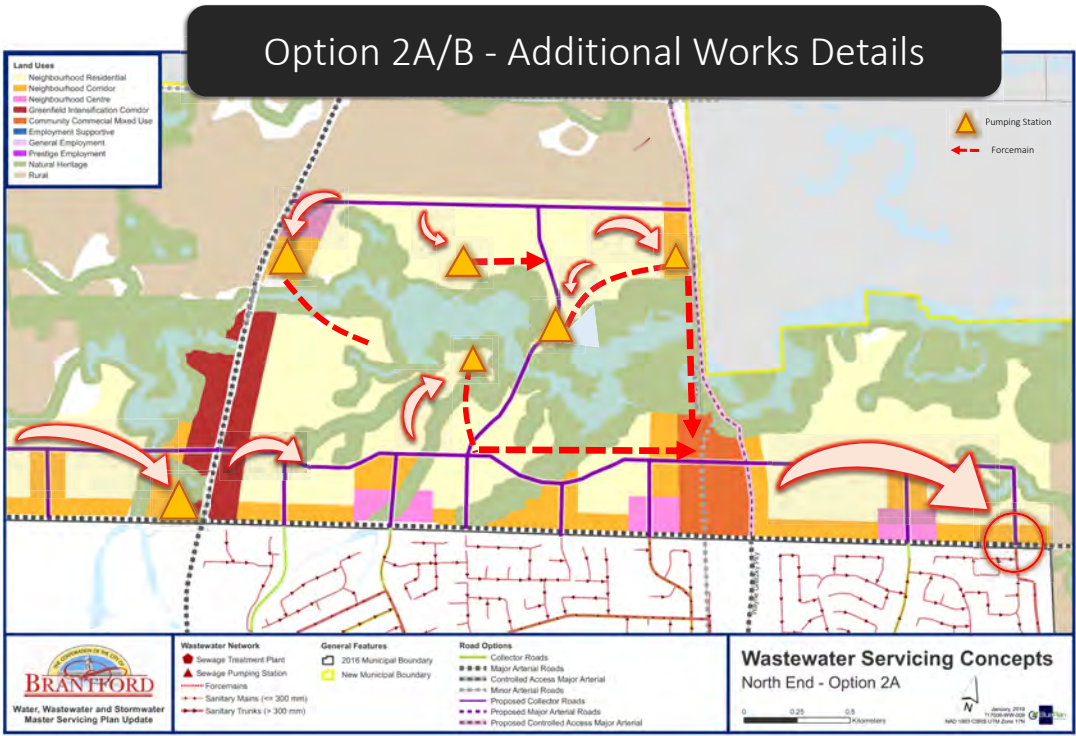
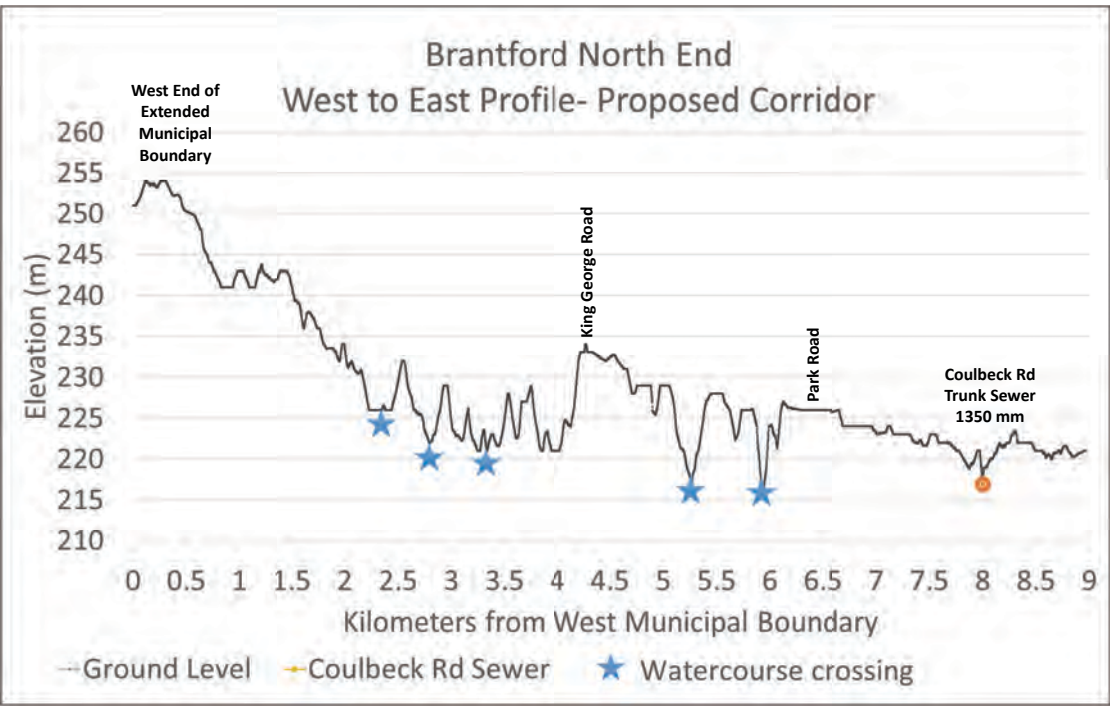
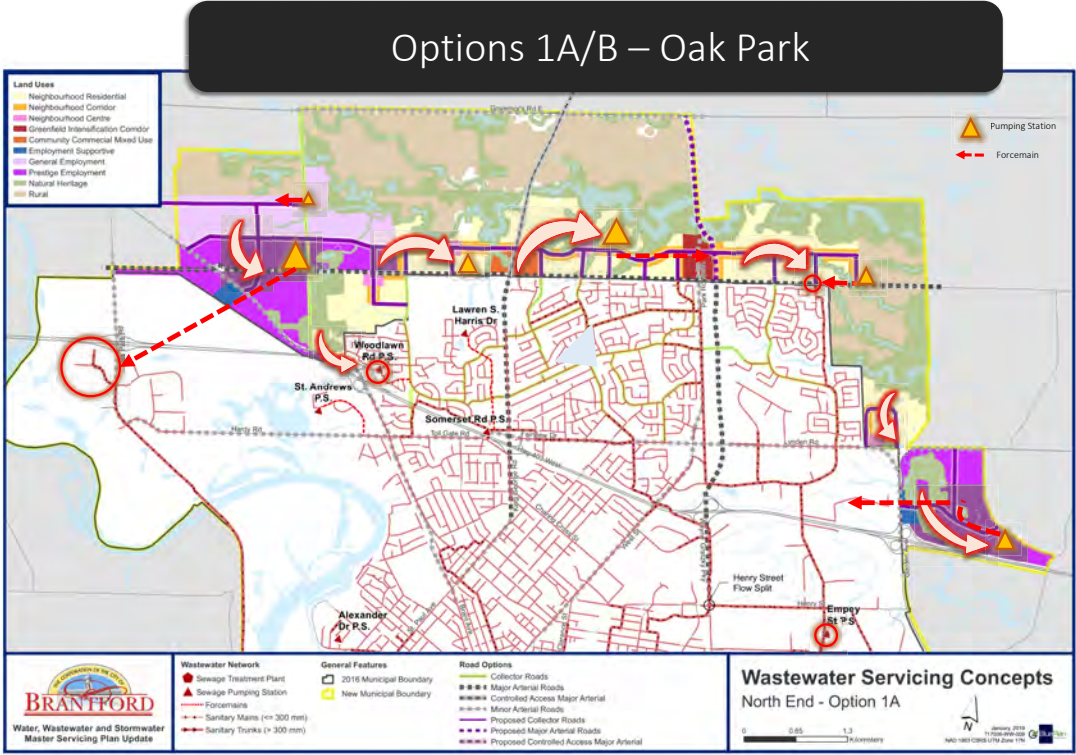
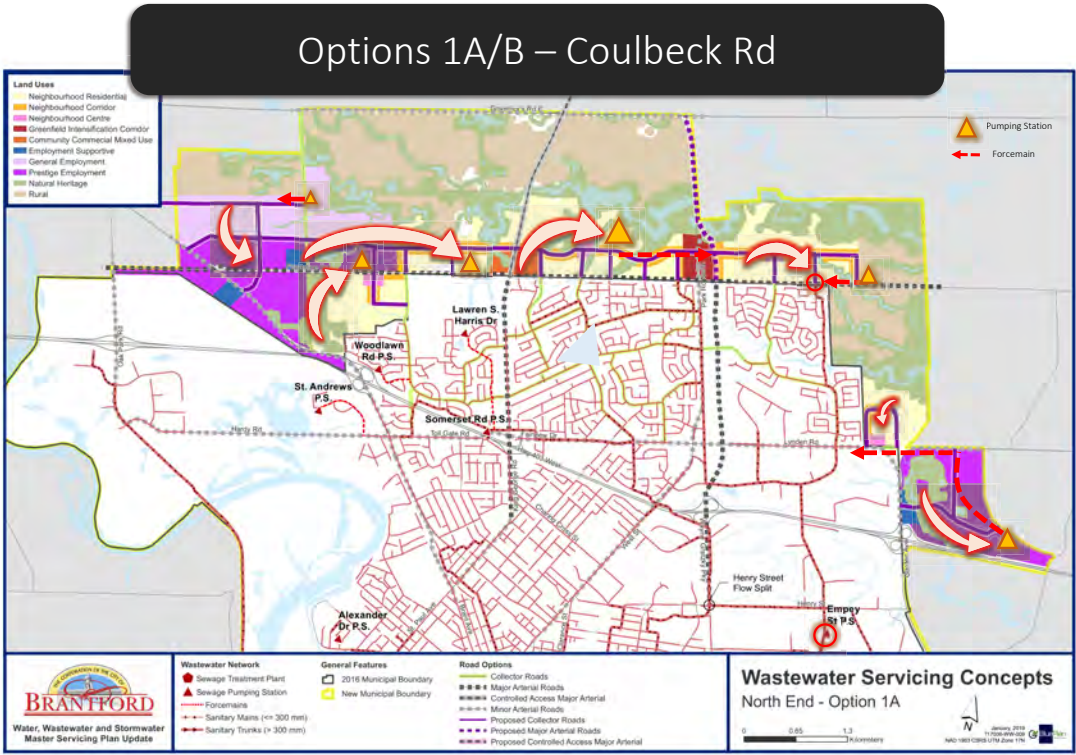
Water Servicing Concepts Evaluation

Water Servicing Concept	Advantages	Disadvantages	Cost Ranking
King George Road Supply <ul style="list-style-type: none"> Strengthen supply from Tollgate Pumping Station & King George Rd trunk watermain New pressure district in northwest employment lands New elevated tank to support growth 	<ul style="list-style-type: none"> Shortest distance of upgraded watermain needed Tollgate pumping station has sufficient capacity Supports new elevated storage easily Supports pressure district boundary optimization Provides phasing flexibility 	<ul style="list-style-type: none"> Requires a major highway 403 crossing watermain 	\$
Park Road Supply <ul style="list-style-type: none"> Strengthen supply from Wayne Gretzky Pumping Station & Park Rd trunk watermain New pressure district in northwest employment lands New elevated tank to support growth 	<ul style="list-style-type: none"> Wayne Gretzky pumping station has sufficient capacity Significant intensification occurring on Wayne Gretzky corridor Better supports expansion lands to the east Upgrades align with wastewater phasing 	<ul style="list-style-type: none"> Requires a major highway 403 crossing watermain Restrict pressure district boundary optimization Additional east/west trunk watermain upgrades are needed 	\$\$
King George and Park Road Supply <ul style="list-style-type: none"> Strengthening supply from both King George Rd and Park Rd New pumping station to supply northwest employment lands New elevated tank to support growth 	<ul style="list-style-type: none"> No new major highway 403 crossing is required Support growth along both King George and Wayne Gretzky intensification corridors Increases overall system resiliency Supports new elevated storage easily 	<ul style="list-style-type: none"> Difficulty phasing of employment lands Longest distance of upgraded watermain needed Requires an additional facility to be built Restricts pressure district boundary optimization 	\$\$\$
Pressure District 4 Supply <ul style="list-style-type: none"> Strengthening supply from Northwest pumping station & new pressure district 4 trunk watermain New pressure reducing valve to supply pressure district 2/3 New elevated tank to support growth 	<ul style="list-style-type: none"> Uses surplus capacity in Northwest pumping station Minimize trunk watermain upgrades Supports pressure district boundary optimization 	<ul style="list-style-type: none"> Requires multiple major highway 403 crossing watermain Increased dependence on single pressure district 4 trunk watermain Limits servicing phasing flexibility May require storage and pumping station upgrades to Northwest 	\$

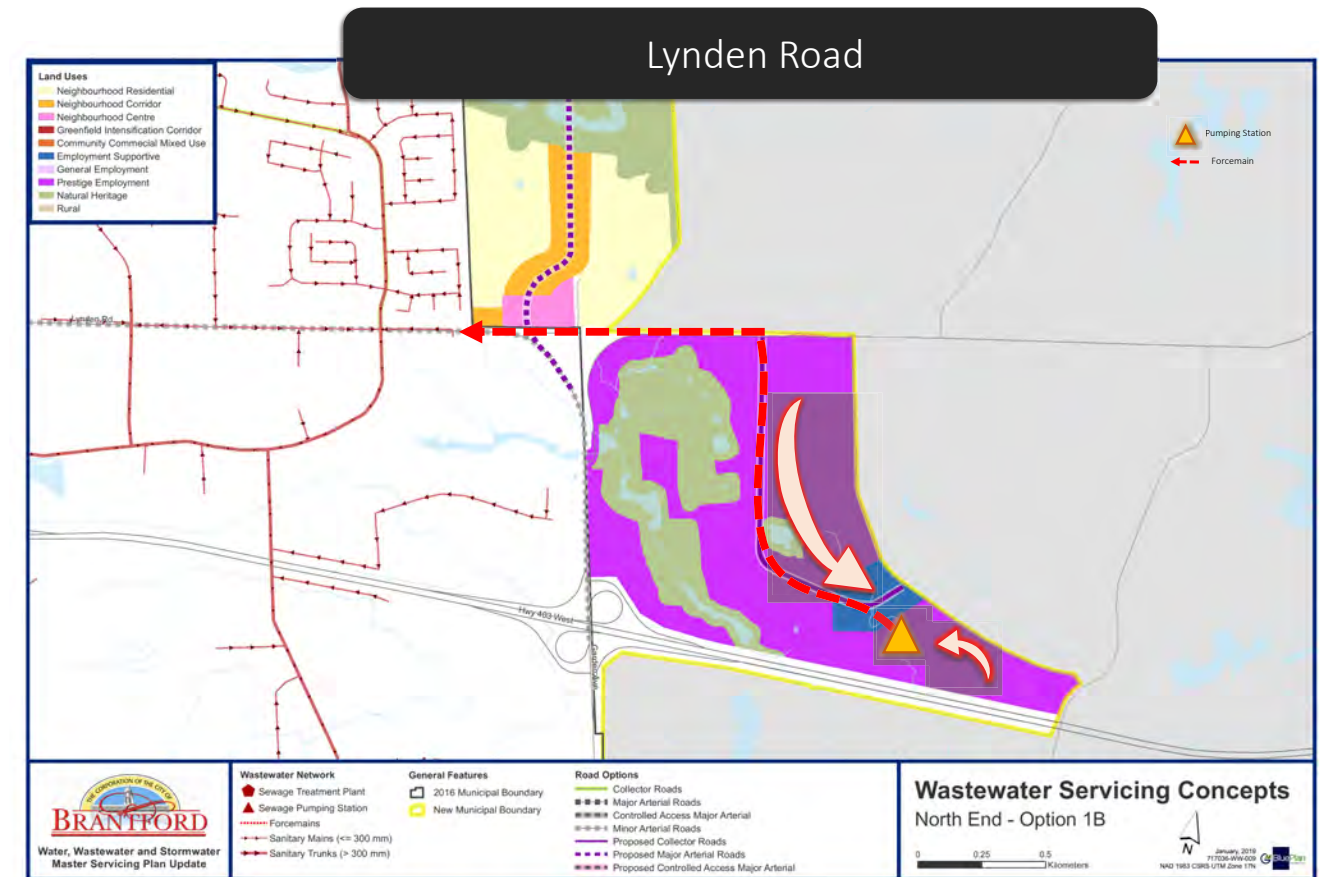
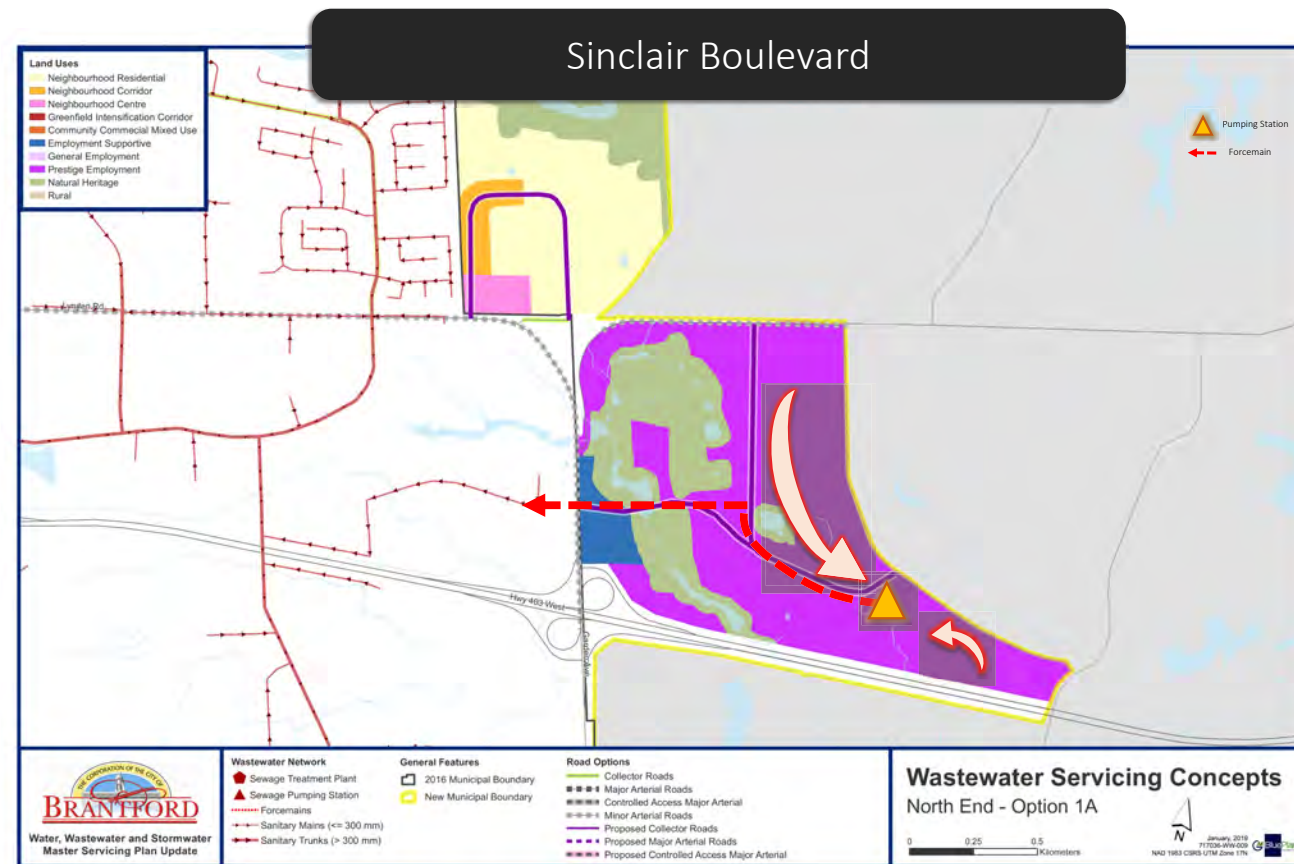
Land Use Options with Preferred Water Servicing Concepts



Wastewater Servicing Concepts – North Lands



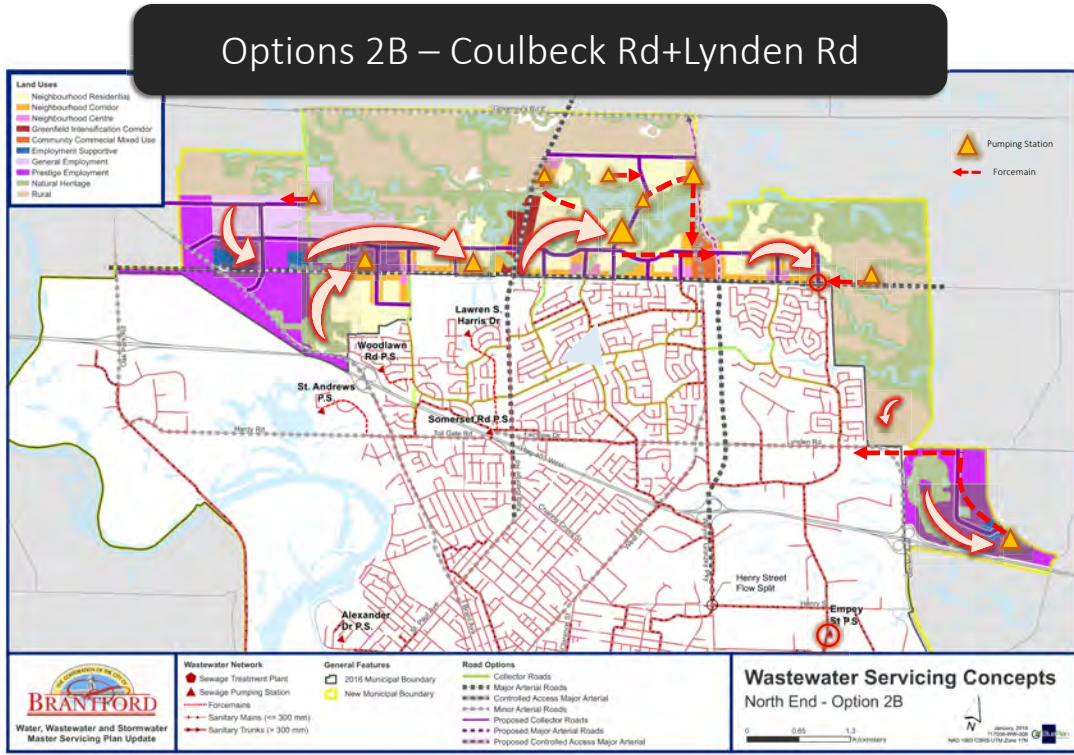
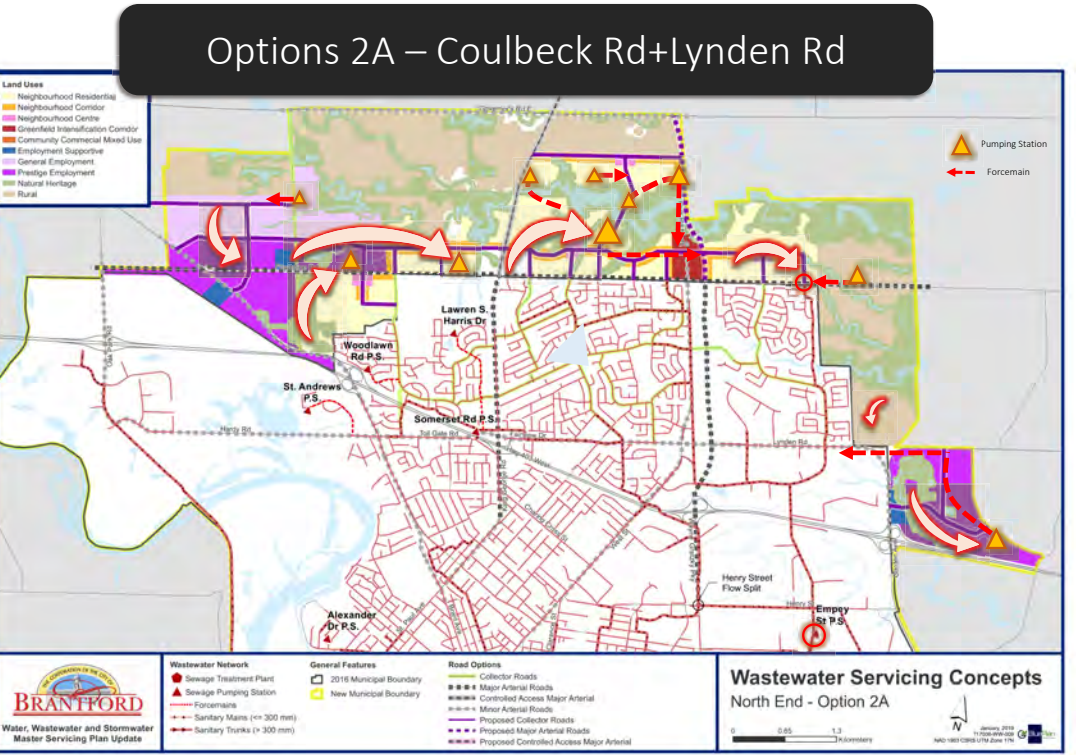
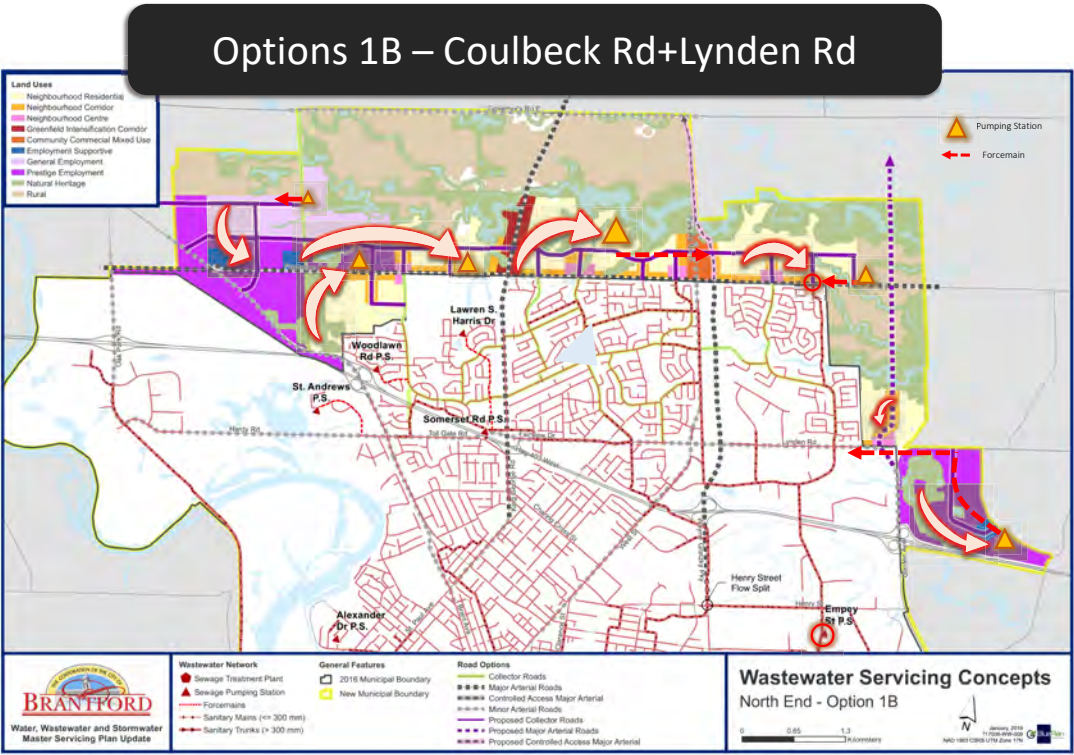
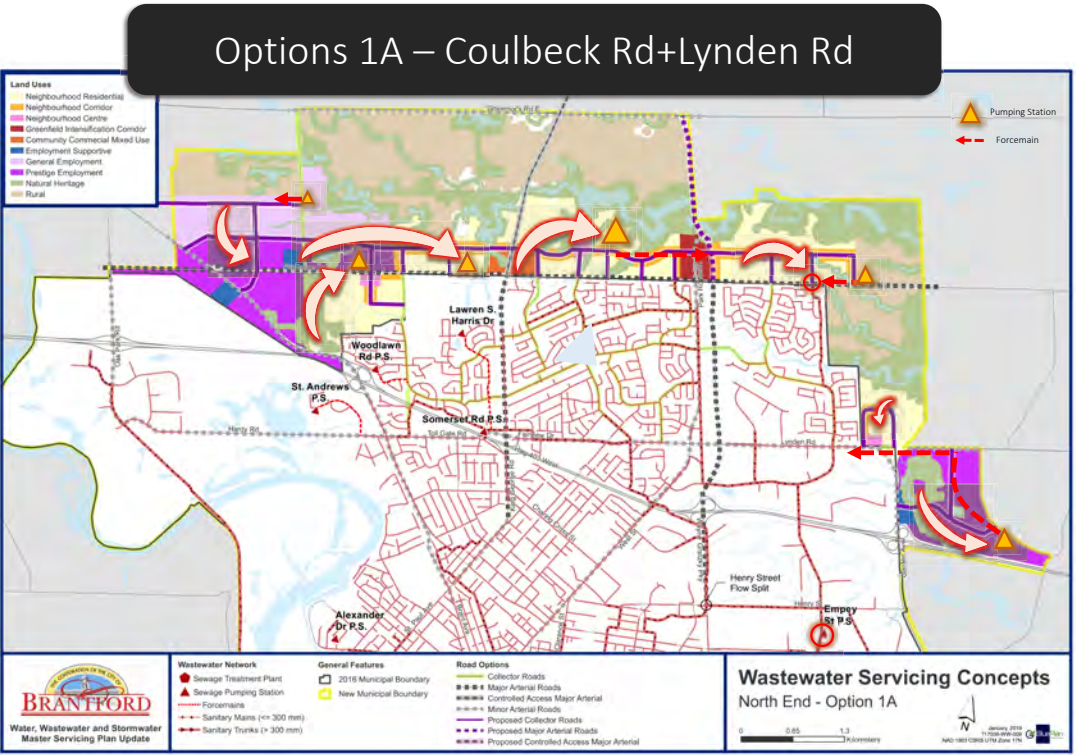
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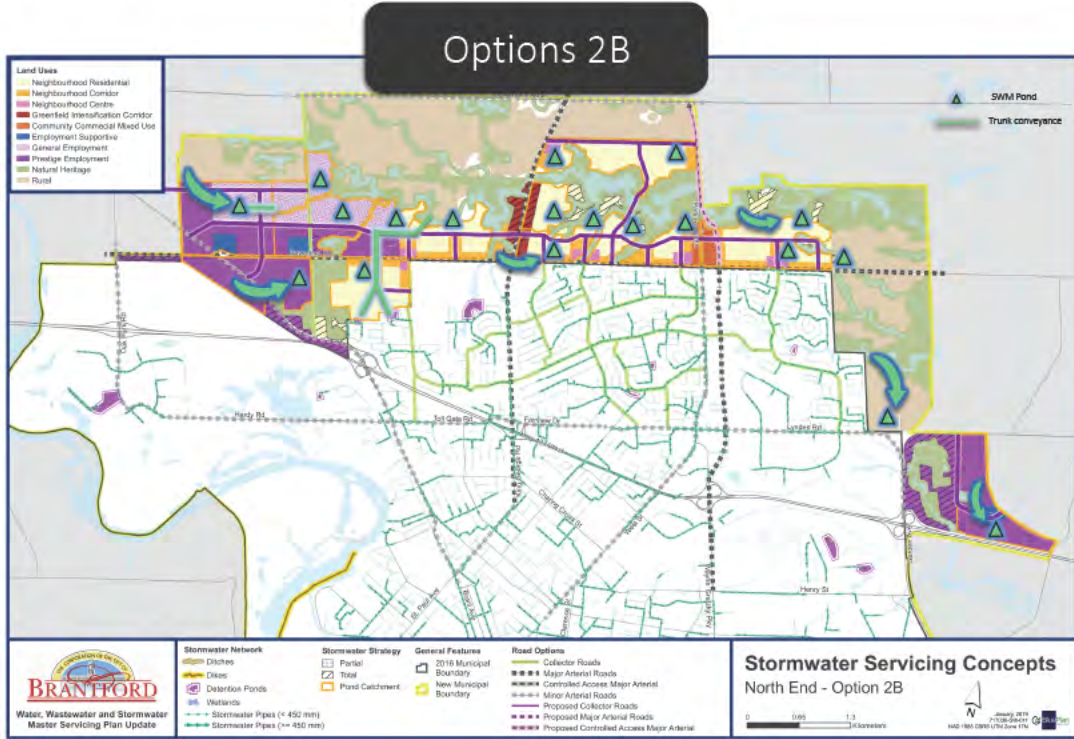
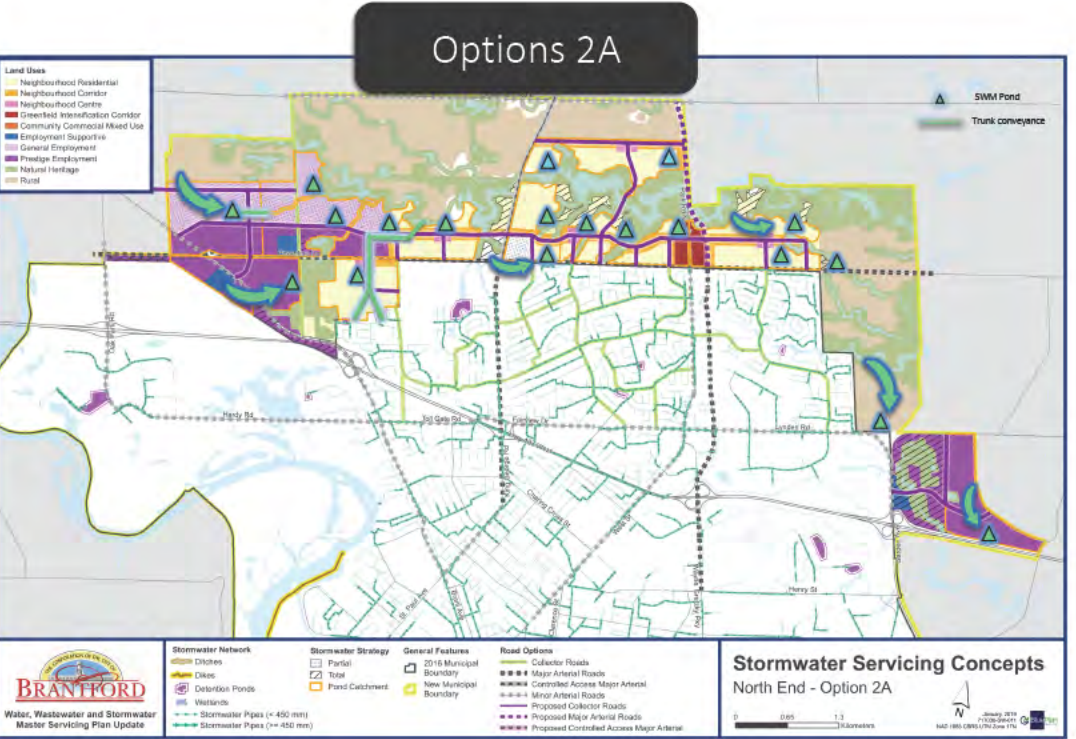
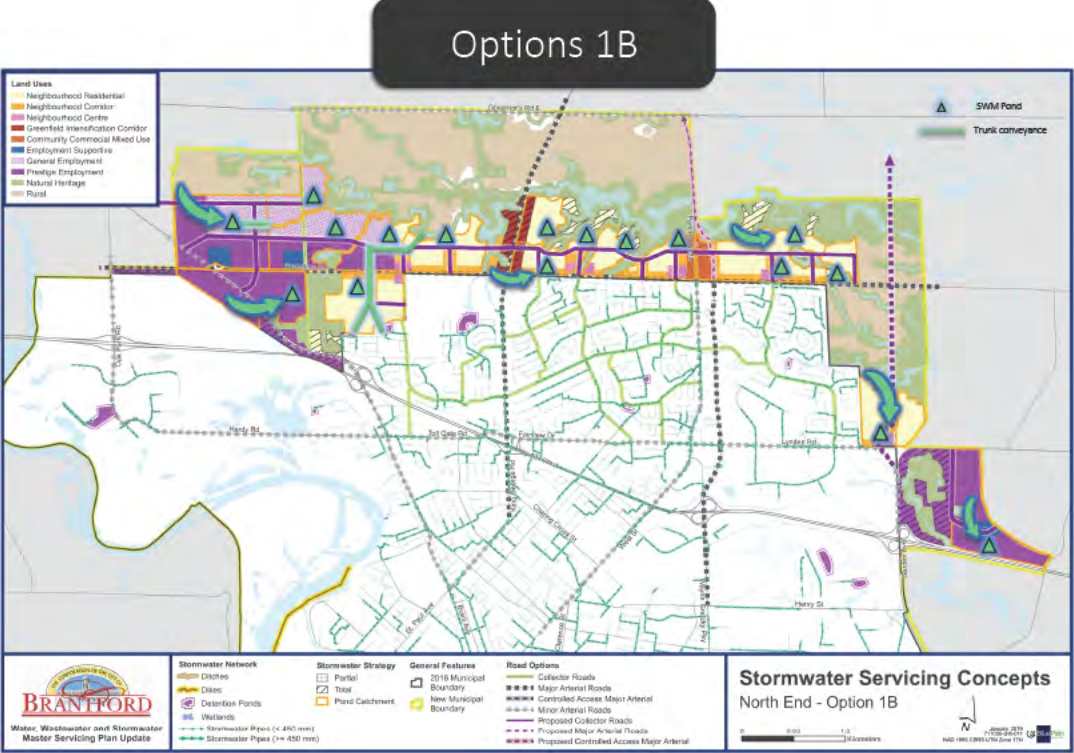
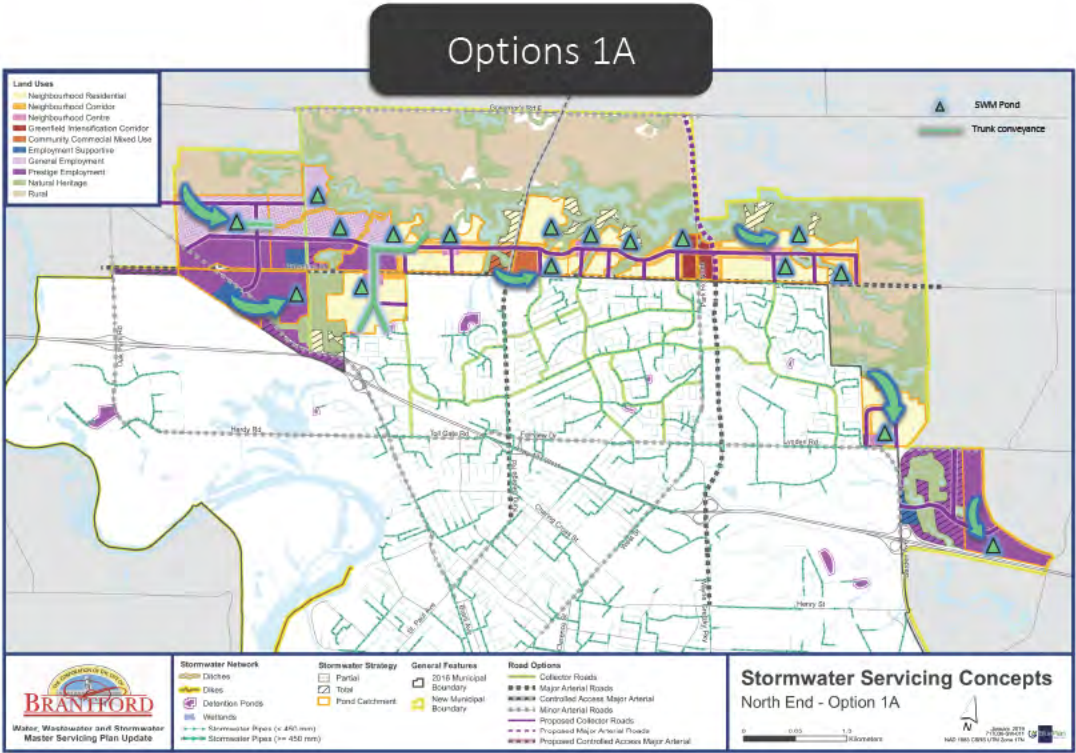
Wastewater Servicing Concepts Evaluation

Wastewater Servicing Concept	Advantages	Disadvantages	Cost Ranking
Coulbeck Rd (North Lands) <ul style="list-style-type: none"> All north expansion lands to trunk sewer on Coulbeck Rd Additional pumping stations required to service Option 2 landuse 	<ul style="list-style-type: none"> Minimal downstream upgrades are required Use topography to increase gravity fed area of northwest employment lands 	<ul style="list-style-type: none"> Requires deep trunk sewer Requires pump stations to Coulbeck Rd Tie in point relatively shallow 	\$
Oak Park (North Lands) <ul style="list-style-type: none"> Northwest employment lands to tie into Oak Park trunk sewer Remaining north lands to trunk sewer on Coulbeck Rd Additional pumping stations required to service Option 2 landuse 	<ul style="list-style-type: none"> Reduces pump station capacities needed to convey flows to Coulbeck Rd Minimal downstream upgrades required 	<ul style="list-style-type: none"> Requires highway 403 crossing Works against topography of northwest employment lands Requires deep trunk sewer Does not fully eliminate need for pump stations to Coulbeck Rd 	\$\$
Sinclair Boulevard (East Lands) <ul style="list-style-type: none"> New pump station to support employment lands, with forcemain discharge to Sinclair Boulevard Upgrade to Sinclair Boulevard sewer Residential lands gravity connection to Lynden Road 	<ul style="list-style-type: none"> Reduced length of forcemain 	<ul style="list-style-type: none"> Longer length of sewer upgrades needed Sewer upgrades along 2 corridors; Sinclair Boulevard and Lynden Road 	\$\$
Lynden Road (East Lands) <ul style="list-style-type: none"> New pump station to support employment lands, with forcemain discharge to Sinclair Boulevard Residential lands gravity connection to Lynden Road Upgrade to Lynden Road sewer 	<ul style="list-style-type: none"> Minimizes existing system upgrades Streamline sewer upgrades for residential and employment lands to single corridor 	<ul style="list-style-type: none"> Longer forcemain is needed 	\$

Land Use Options with Preferred Wastewater Servicing Concepts



Land Use Options with Preferred Stormwater Servicing Concepts



Tutela Heights – Water, Wastewater, and Stormwater Servicing

Water



Wastewater Option 1 – Connect at Mount Pleasant Rd



Wastewater Option 2 – Connect at Gilkison St



Stormwater

