

# Infrastructure Masterplan – List of Projects

The list of potential projects under the Infrastructure Master plan is a dynamic document. This is a snapshot as of April 4, 2022.

## Transportation

### Growth Projects

- Main Street Bath – Fairfield Street to east limits of Village, including Windemere intersection
- Amherst Drive – Speers Boulevard to County Rd 6
- Shane Street - County Road 2 to County Rd 6
- Henzy Street – Upgrade coordinated with development of 315 Main Street, Odessa
- Potter Drive – South Street to County Road 2
- Creighton Drive – South Street to County Road 2
- Amherstview West impacts on Amherst Drive, Kildare Avenue, and County Road 6
- New snow dump location
- Long-term expansion of County Road 6 Public Works complex, garage, winter sand/salt storage

### Non-growth Projects

- Active transportation
  - Amherst Island Trail
  - Rural Trail Development
  - Urban linkages – trails and sidewalks
  - Address sidewalk discontinuities
- Traffic calming
  - Establish priority projects
  - Develop new policy
  - Apply policy to secondary priorities
  - Establish pedestrian safety policy
  - Policy for crossing guard warrants, pedestrian crossings
- Address inconsistencies
  - Establish policy for use of stop/yield sign use
  - Signage and update signs
- Main Street, Odessa
  - Drainage improvements, sidewalk extension
- Front Road
  - Sidewalk and drainage improvements
- South Shore Road

- Shoreline stabilization
- Taylor-Kidd Extension (L&A County)
  - Modifications to local Township roads in vicinity of proposed extension (Doyle Road, Ham Road)

## New Technology

- Expansion of electric vehicle use
- Impacts due to use of autonomous vehicles

## Regulatory

- Future technological improvements changes regarding application of winter salt, sand, and brine
- Future road upgrades can expect to include requirements for the implementation of LID features
- Future regulatory changes regarding the use of road salt

## Stormwater

### Growth Projects

- Currently expect that any new stormwater management facilities will be directly funded by developers as part of their subdivision process
- Exception - Amherstview West requirements not known yet – expect at least two stormwater management facilities

### Regulatory

- MECP is updating stormwater requirements constantly
- Expect increased project costs if low impact design (LID) features become obligatory for both new and remedial projects
- Changes to effluent-to-effluent loadings
- New lineal ECA results in increased administration, inspection, increases Township's role at design stage, speeds up approval process

### Remedial Projects

- Examine Bath, Odessa, and Amherstview, and address remedial issues for minor and major storms:
  - Review of minor storm system
  - Review major storm system and ability to manage increased storm frequencies and intensities, ability to maintain all outlets and routes
- Main Street, Odessa project (L&A County) provides an opportunity to address several Main Street, Odessa area drainage issues
- Nicholson Point Road
  - Examine issue of insufficient outlet capacity
- Front Road
  - Address remedial drainage issues within the hamlet of Stella as part of road improvements

## Water

### Remedial Projects

- Review taste and odour issues Bath system
- Review level of non-revenue water and recommend action plan
- Review operational resiliency of screens between high lift pumps and membranes at Bath Water plant

### Regulatory

- Monitoring for THMs in distribution system
- Opportunity for SCADA improvements, metering
- Emerging contaminants

### New Technology

- Reduction in carbon footprint of water system through optimization process

### Growth Projects

- Review adequacy of all piping, including trunk main to Odessa
- Review adequacy of storage facilities
- Evaluate the need and location of different pressure zones in Bath
- Evaluate the needs for Amherstview West
- Determine timing of plant expansions, Bath and Fairfield
- Develop policy for allocating reserve water capacity
- Extension of watermain to service undeveloped industrial lands and beyond

## Wastewater

### Growth Projects

- Amherstview West trunk servicing options conceptually include trunk gravity sewers, force mains, possible upgrades to Lakeview Sewage Pumping Station (SPS), and a potential new sewage pump station
- Evaluate need to upgrade all other SPSs to accommodate planned growth
- Evaluate all piping to ensure capacity available for growth including trunk sewer from Odessa
- Extension of Odessa West trunk sewer
- Examine the need and timing for treatment plant capacity expansion. This evaluation should include the need to improve the clarification and digester facilities to meet growth needs
- Add second auger at Bath Sewage Treatment Plant inlet screening process

### Remedial Projects

- Review the various sub-processes at Bath Sewage Treatment Plant and address remedial needs: headworks, aeration, digester, and clarifiers. Major upgrades anticipated in near and medium term
- Evaluate improvements to sludge management

- Potential to improve SCADA
- Ability to install and maintain remote monitoring of in-line pipe flow monitoring to assist with evaluating local inflow and infiltration (I&I) impacts

### New Technology

Potential to provide smaller incremental increases in capacity using modular filters (membranes) at an economically feasible rate, to be evaluated against full expansion of tankage

### Regulatory

- Potential for new regulations regarding emerging contaminants, i.e., pharmaceuticals, fire retardants
- Potential for regulations to tighten on phosphorus, suspended solids, or nitrogen compounds (ammonia) loadings in final effluent
- Potential for restrictions for sludge disposal, where applied to farm fields

### Miscellaneous Topics

- Evaluate developing Township soil storage and/or process site that meets the requirements of new provincial excess soil regulation
- Consider establishing a natural capital asset management policy
- Review Township policies for protecting and improving groundwater resources
- Review Township's ability to respond to scenarios identified in MMAH's Housing Affordability Task Force Report