





## Municipal Drain No. 120

**Consideration of Report** October 1, 2024

## Authority

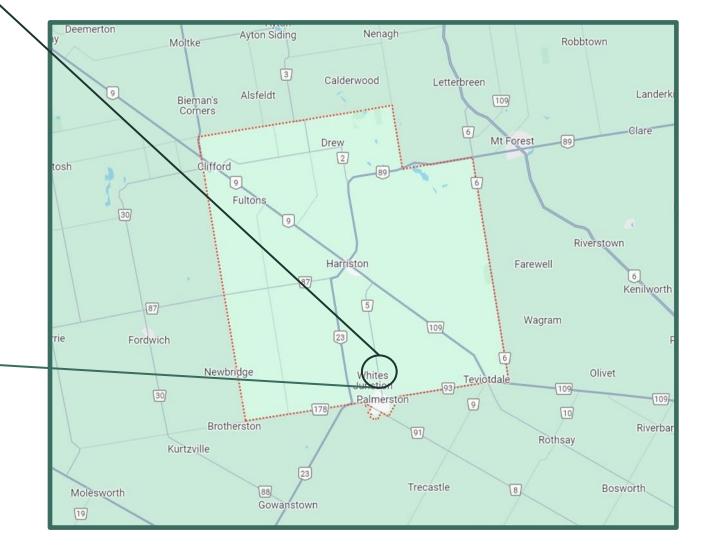
 Headway was appointed under Section 4 of the Drainage Act at the May 9, 2023, Council Meeting for the:

#### "Construction of a new tile drain"





Project Location





# Public Engagements

## Onsite Meeting June 27, 2023

Information Meeting May 30, 2024

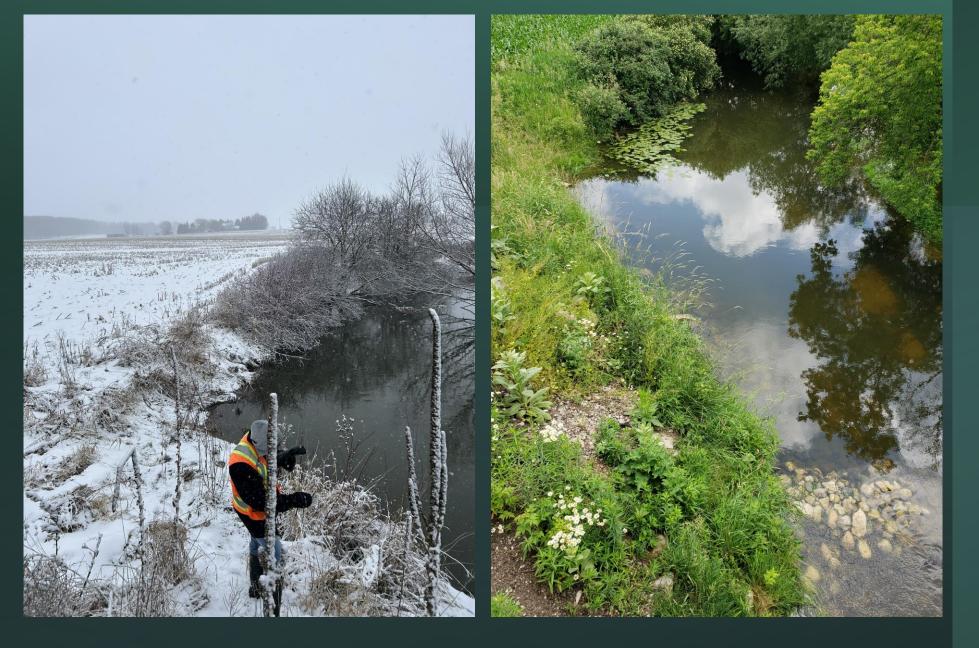


## Findings

#### • FINDINGS

- A new, deeper sufficient outlet is required for several properties in the watershed.
- There is some land outside the watershed that will be tiled into the watershed after the installation of the new drain.
- There is large ponding areas on part of Lot 20, Concession 3.
- County Road 5 needs drainage.
- Municipal Drain 5 (open ditch) to serve as the outlet for the new drain.
- High pressure gas main on the east side of County Road 5 (on private property).
- The watershed area is approximately 68 ha (168 acres), consisting of agricultural lands (primarily), woodlots, and roads.
- Watershed is currently served by private tile drains that are not of sufficient capacity, depth or size, to serve the watershed at today's standards of drainage.





# Photos

#### **Outlet Location into Drain 5**





PhotoS

Existing Catchbasin D/S side of Wellington Rd 5

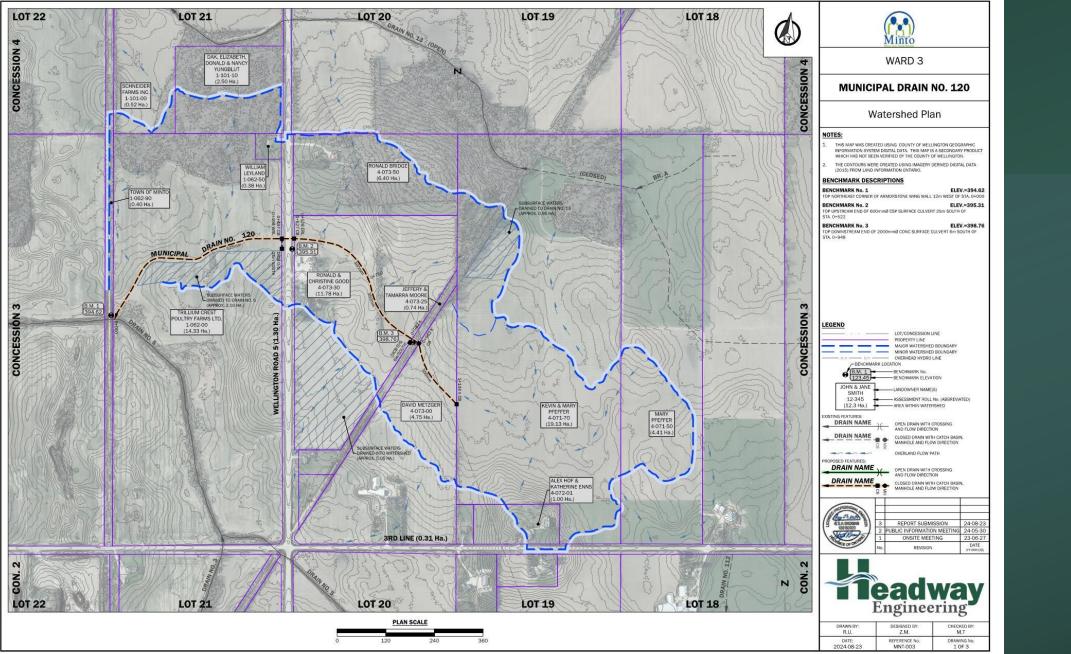


#### Recommendations

#### **Recommendations:**

- A new tile drainage system be installed from an outlet into Drain No. 5, just upstream of the bridge through the Town of Minto walking path, upstream approximately 1,144 metres to the property boundary between the Metzger and Pfeffer properties (Lot 19/Lot 20, Concession 3).
- The new tile drainage system consist of 350mm to 525mm dia. concrete field tile.
- A 600mm dia. smooth wall steel casing be installed through the County Road 5 road allowance by means of the boring method.
- No work be done in Drain No. 5.
- The new tile drainage system be designed using a 38mm per 24 hour Drainage Coefficient.

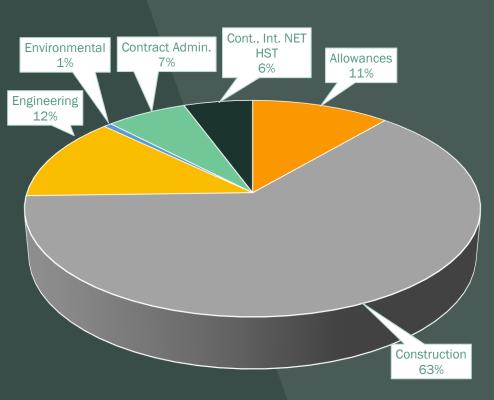




D C S i O Q



## Estimated **Project Costs**







Construction Costs (including Provisional items)



\$

Meetings/Correspondence, Survey, Design, Cost Estimates, Reporting, etc.

**Environmental Consultations/Approvals** 

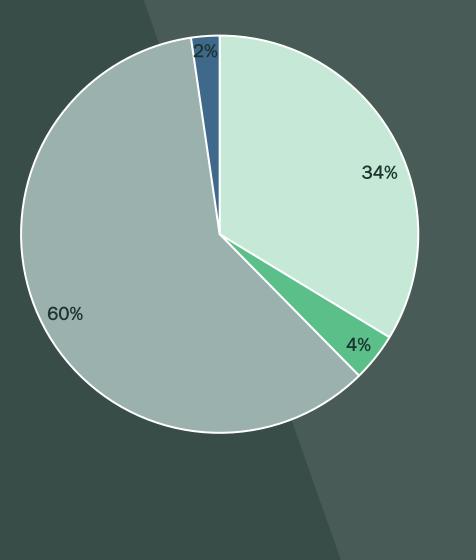
Contract Documents, Administration, Supervision & Inspection

Contingencies, Interest & NET HST

Total Estimated Costs: \$315,900 



## Assessment of Costs (Summary)





Municipal Lands: **\$106,410 (34%)** 



Private Non-Agricultural Lands: \$12,428 (4%)



Private Agricultural Lands: \$189,762 (60%)



Public Utilities: \$7,300 (2%)



Total Assessment

MUNICIPAL DRAIN NO. 120: \$315,900





#### Tile Installation by means of Wheel Machine









### **Catchbasin Installation**



#### **Smooth Wall Steel Casing Installation** (Jack and Bore Method)





## **Working Corridor After Completion**



