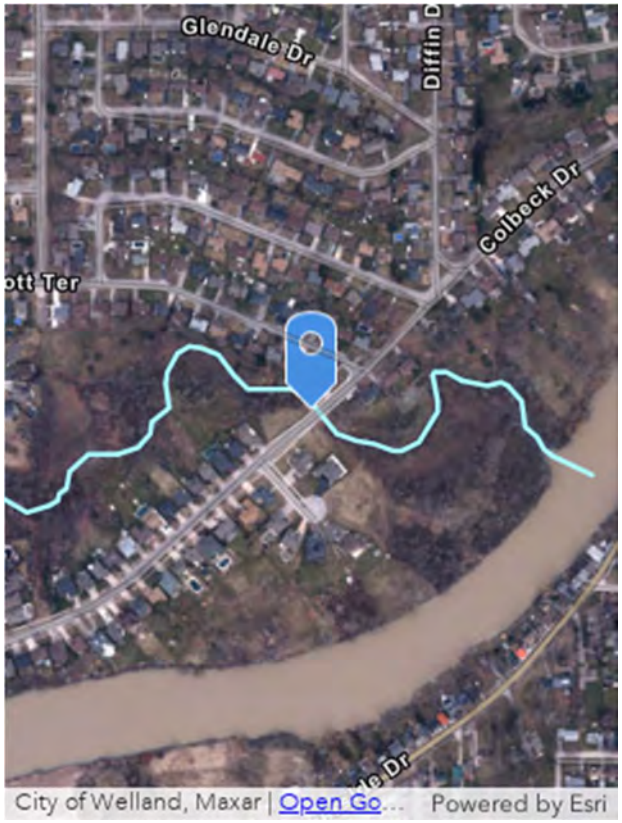
HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_42	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.35 x 3.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 23.87		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 170.65	U/S Obvert Elev. (m):172.00	Additional Information:
Location (Road Name/Intersection): Colbeck Dr	D/S Invert Elev. (m): 170.62	D/S Obvert Elev. (m): 171.97	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 25		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

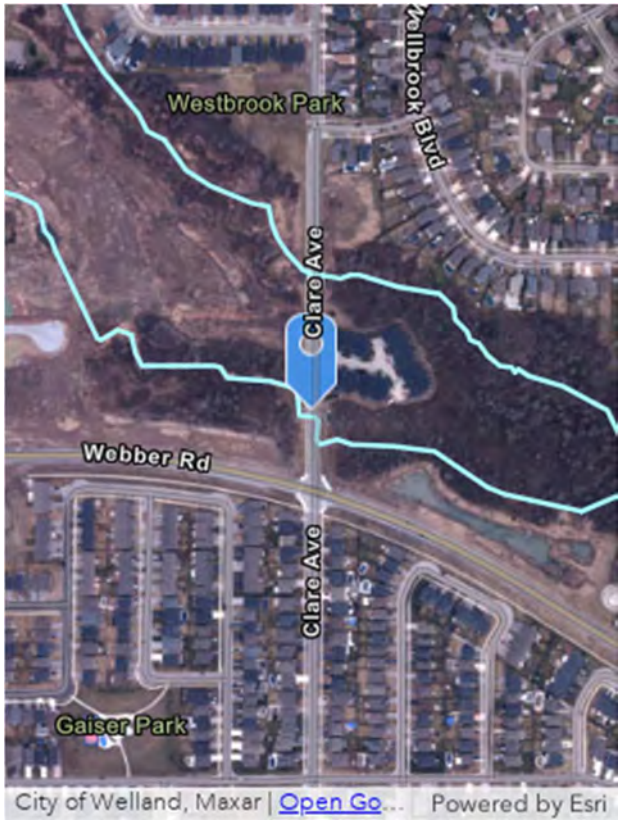
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_43	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.45 x 2.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 23		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 173.7	U/S Obvert Elev. (m):175.15	Additional Information: DS end has large deep pool, channel is backwatered (DS only)
Location (Road Name/Intersection): Clare Ave	D/S Invert Elev. (m): 173.65	D/S Obvert Elev. (m): 175.1	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 250		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

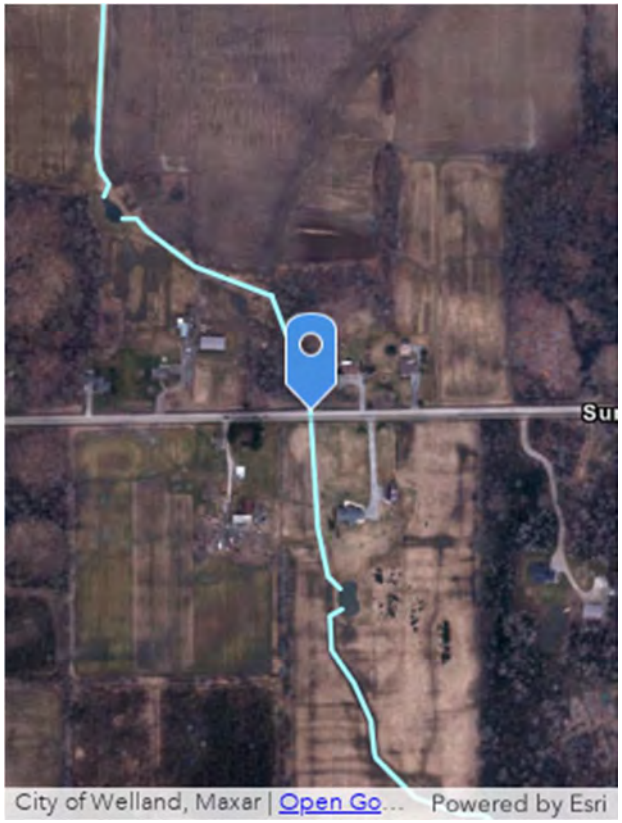
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_44	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.6		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 180.96	U/S Obvert Elev. (m): 182.06	Additional Information: Standing water in roadside ditches on US and DS sides despite very little flow in channel. poor drainage, heavy sediment buildup, especially on US side
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m): 180.97	D/S Obvert Elev. (m): 182.07	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 300		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

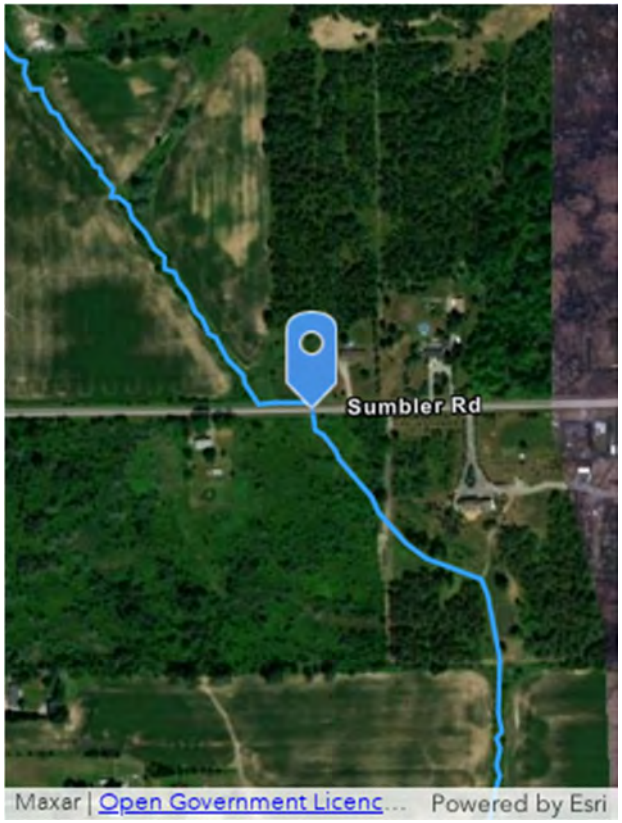
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 2,504
ABL ID: ABL_45	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.7 x 2.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 13.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.94	U/S Obvert Elev. (m): 181.64	Additional Information: left cell is overflow, significant sedimentation, no flow
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m): 179.89	D/S Obvert Elev. (m): 181.59	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 300		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

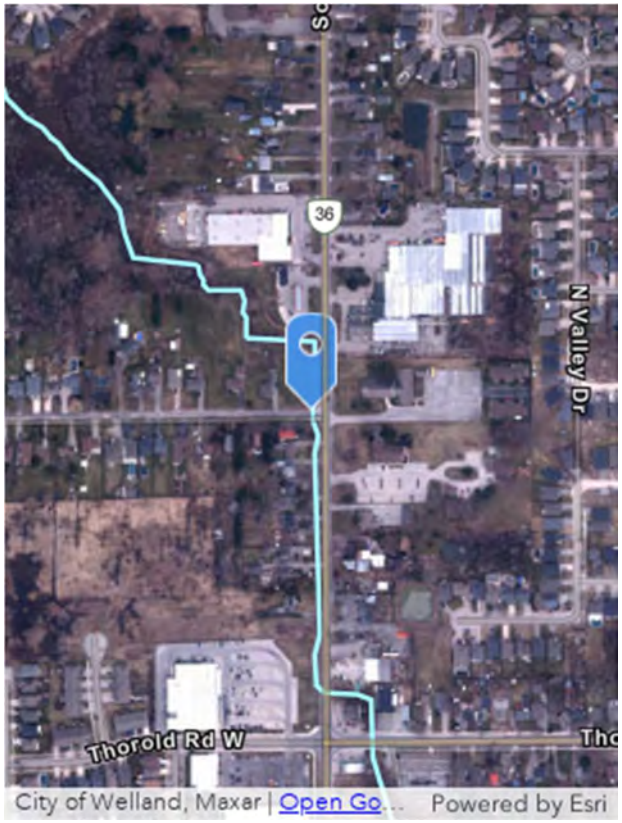
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 150
ABL ID: ABL_46	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.5		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 180.05	U/S Obvert Elev. (m):181.05	Additional Information: ditches on both sides of Sumbler drain into creek at structure, no flow or standing water in either ditch. Small area of undercutting on right bank DS of structure
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m): 180.05	D/S Obvert Elev. (m): 181.05	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

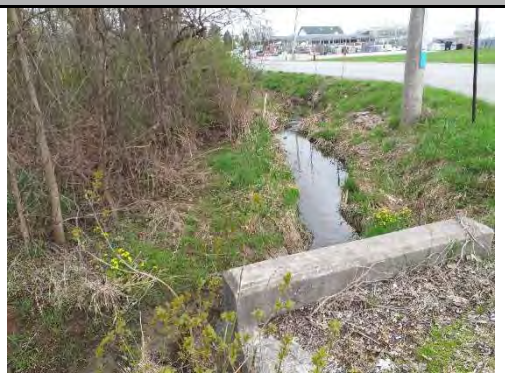
Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

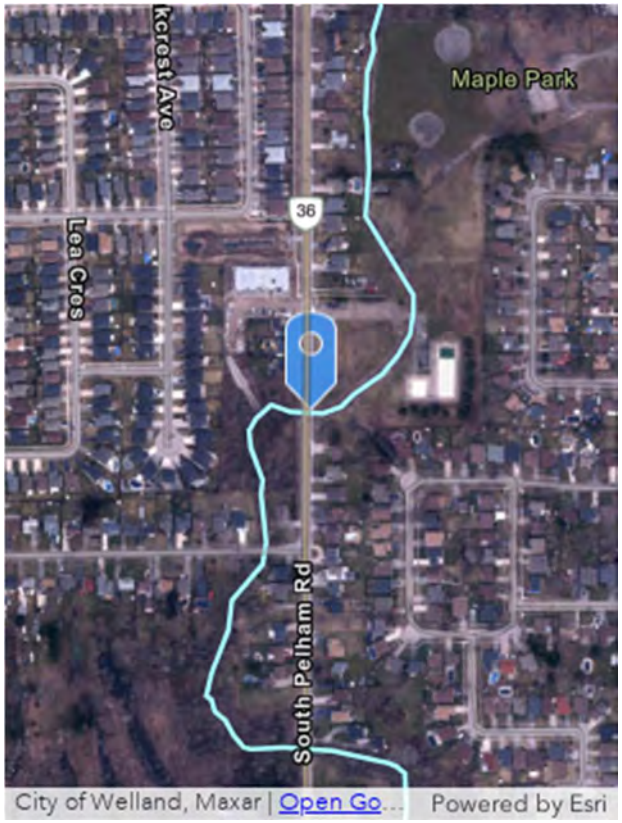
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 150
ABL ID: ABL_47	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 14		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 177.21	U/S Obvert Elev. (m):178.61	Additional Information: US runs through park. Stream naturalization project sign was noted. Gabion basket headwalls in good condition. 650mm Storm outfall outlets on DS side. Park laneway crosses creek, structure not included in
Location (Road Name/Intersection): South Pelham Rd	D/S Invert Elev. (m): 176.97	D/S Obvert Elev. (m): 178.37	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

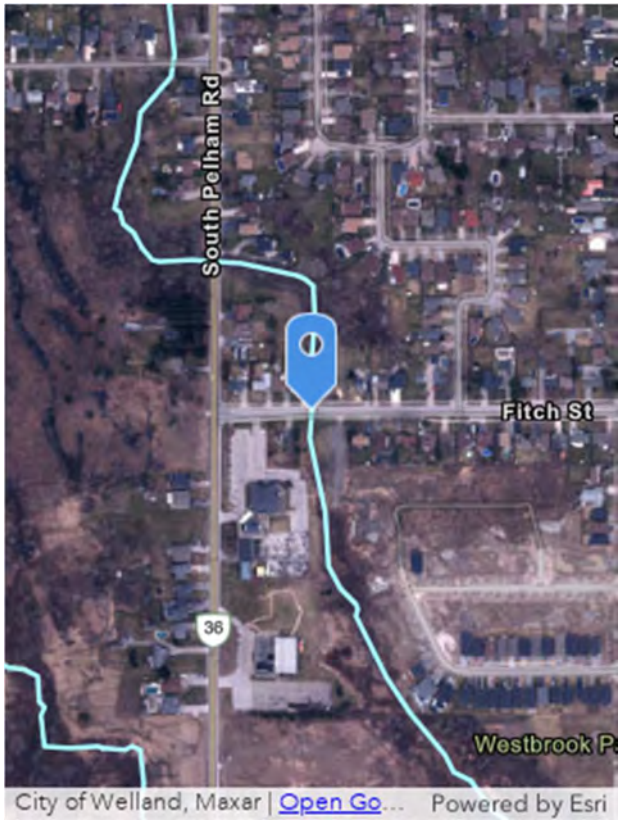
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HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 100
ABL ID: ABL_48	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.3 x 3.65		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 23.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 175.62	U/S Obvert Elev. (m):176.92	Additional Information:
Location (Road Name/Intersection): Fitch St	D/S Invert Elev. (m): 175.57	D/S Obvert Elev. (m): 176.87	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 30		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

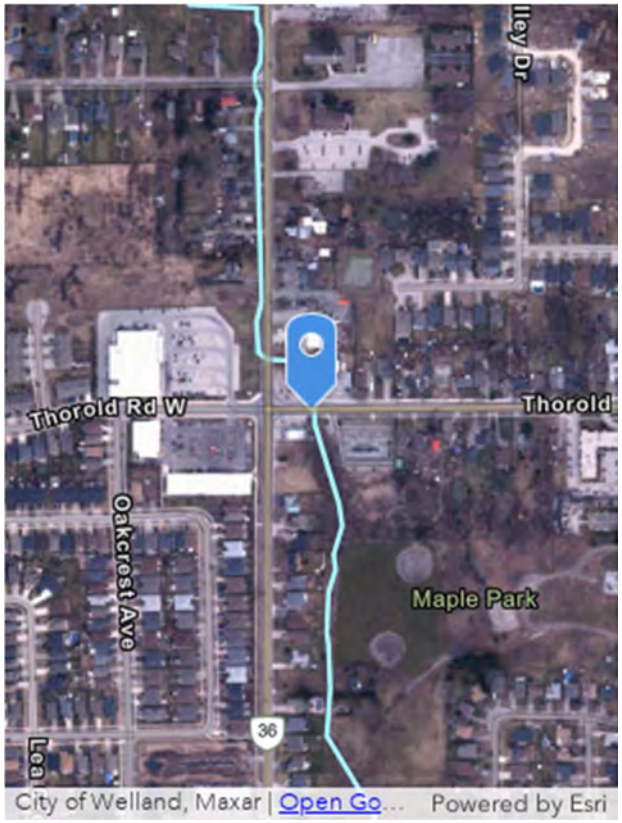
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Road Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 200
ABL ID: ABL_49	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): ~ 1.3 x 3		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 17.3		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 179	U/S Obvert Elev. (m):180.25	Additional Information: Small debris jam US. DS channel has variety of unofficial erosion control measures (including piled stone, tied logs, metal stakes, and plastic sheeting) and is heavily channelized with near vertical banks
Location (Road Name/Intersection): Thorold Rd	D/S Invert Elev. (m): 178.8	D/S Obvert Elev. (m): 180.25	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

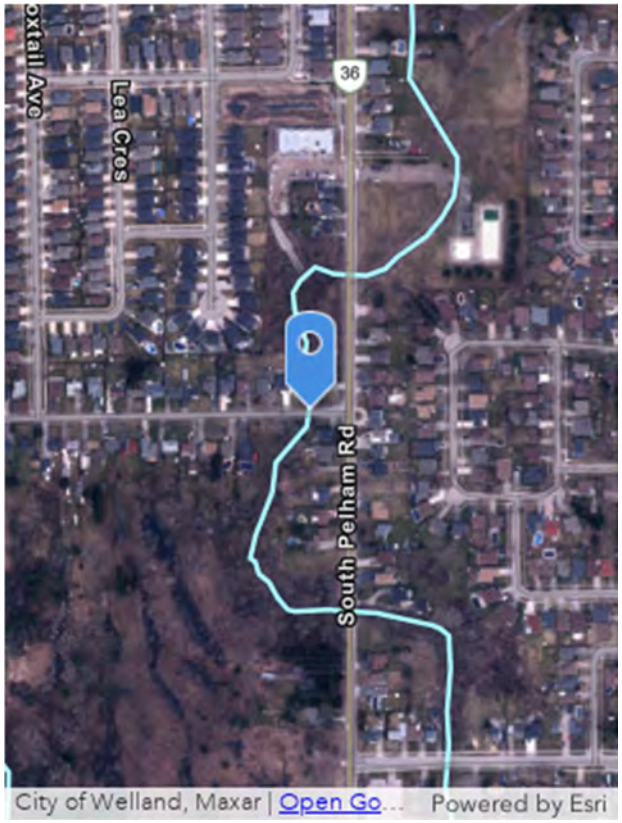
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 300
ABL ID: ABL_50	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.7		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.62	U/S Obvert Elev. (m): 178.32	Additional Information: Left bank is gabion lined DS only. Small private bridge 10m DS. Large debris jam 20m DS. Headwalls are staked concrete slabs, limited grout noted on US, headwall washing out on US side, slabs falling
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 176.56	D/S Obvert Elev. (m): 178.26	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

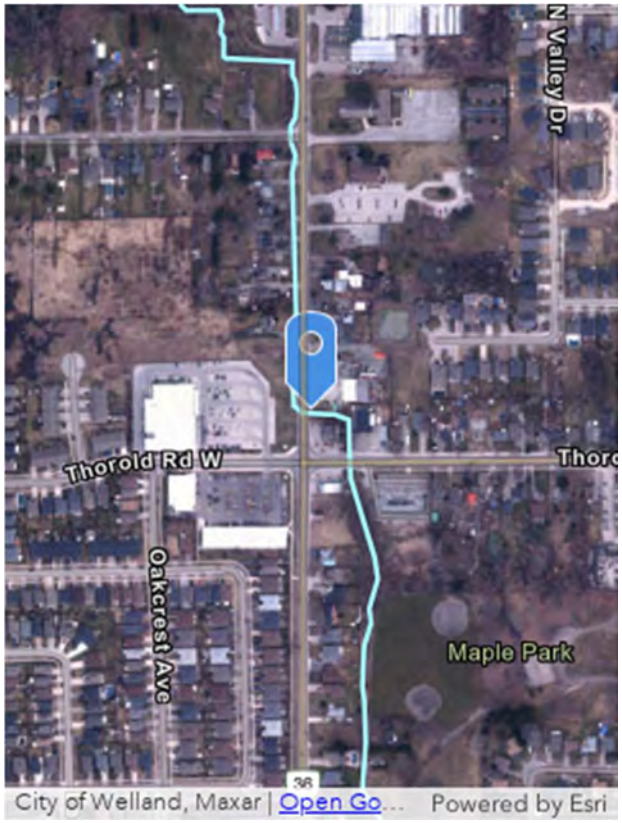
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 200
ABL ID: ABL_51	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 0.95 x 3.55		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 14.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.29	U/S Obvert Elev. (m): 180.24	Additional Information: Sediment on DS side only. Debris jam immediately DS.
Location (Road Name/Intersection): South Pelham Rd	D/S Invert Elev. (m): 179.23	D/S Obvert Elev. (m): 180.18	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 200		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

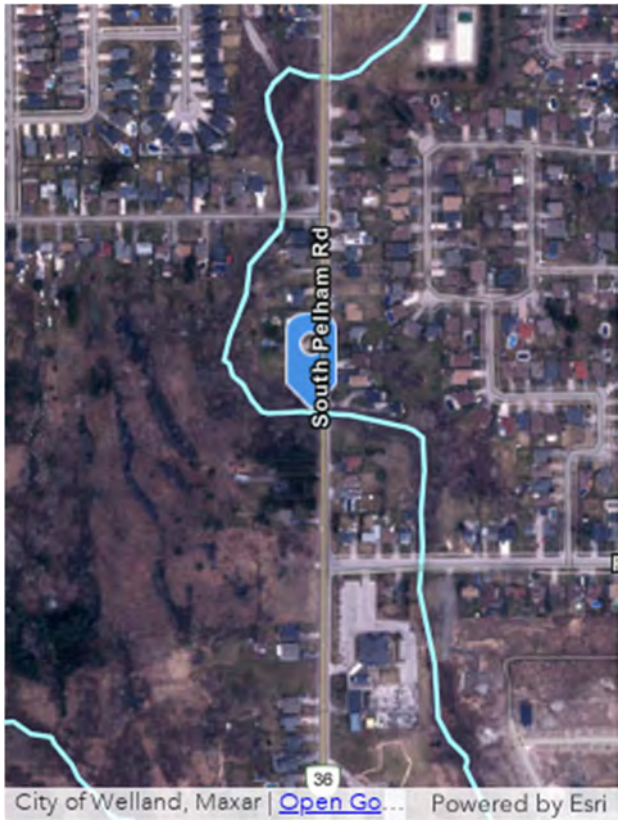
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 100
ABL ID: ABL_52	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.75 x 3.5		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 10.75		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.07	U/S Obvert Elev. (m): 177.82	Additional Information: gabion basket wingwalks are largely buried and are slumping. Series of small debris jams US. Fully exposed pipe crosses perpedindicular to creek approx. 0.5m above creek bed on US side
Location (Road Name/Intersection): South Pelham Rd	D/S Invert Elev. (m): 176.08	D/S Obvert Elev. (m): 177.83	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

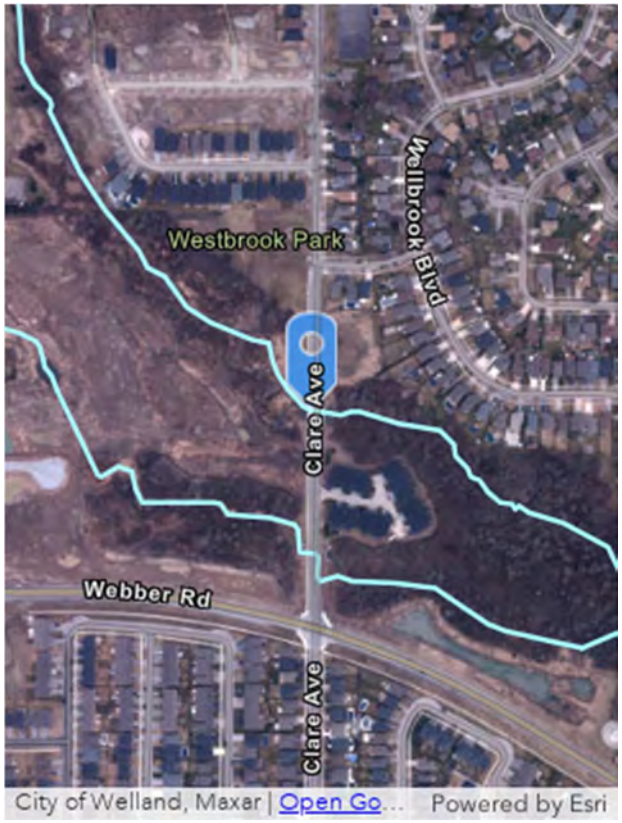
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Road Bridge, Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 250
ABL ID: ABL_53	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 2.05 x 7.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 18		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 173.47	U/S Obvert Elev. (m): 175.52	Additional Information: large shallow pools and very heavy sediment buildup on both sides of structure
Location (Road Name/Intersection): Clare Avenue	D/S Invert Elev. (m): 173.4	D/S Obvert Elev. (m): 175.45	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 500		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

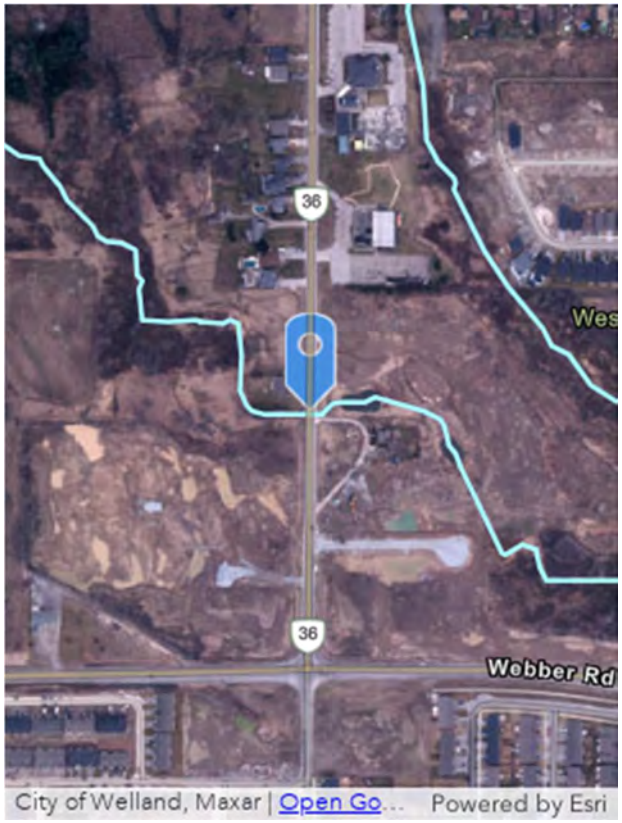
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_54	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 0.95 / 1.05		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 15.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 175.77	U/S Obvert Elev. (m):176.87	Additional Information: Second cell is 1.05m CSP. DS channel is newly/still under comstruction. Poorly formed channel cros section has resulted in wide shallow pooling.
Location (Road Name/Intersection): South Pelham RD	D/S Invert Elev. (m): 175.75	D/S Obvert Elev. (m): 176.8	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

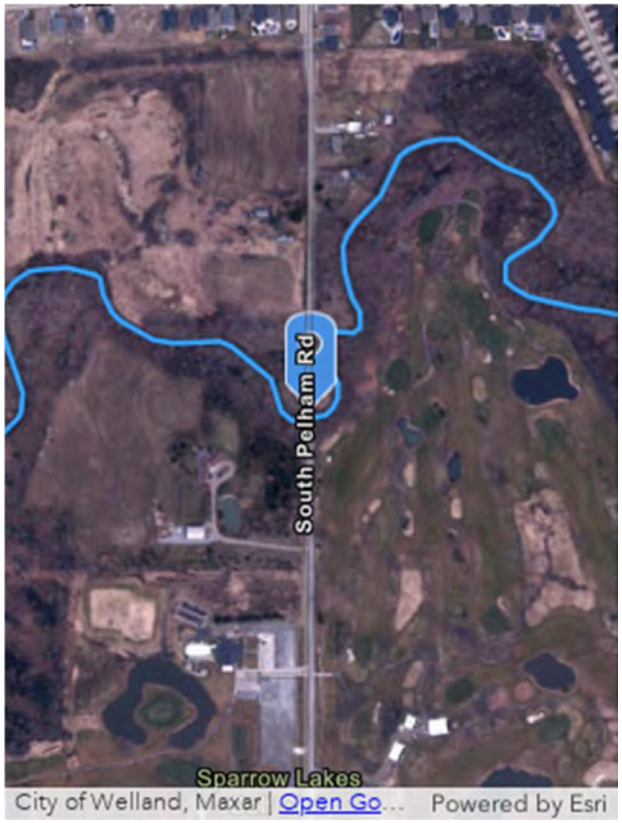
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 11/23/2023	Structure Type: Road Bridge	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 1,000
ABL ID: ABL_55	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 3.68 x 6.87		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 8.40		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 169.59	U/S Obvert Elev. (m): 173.27	Additional Information:
Location (Road Name/Intersection): South Pelham Road	D/S Invert Elev. (m): 169.46	D/S Obvert Elev. (m): 173.25	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 25		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

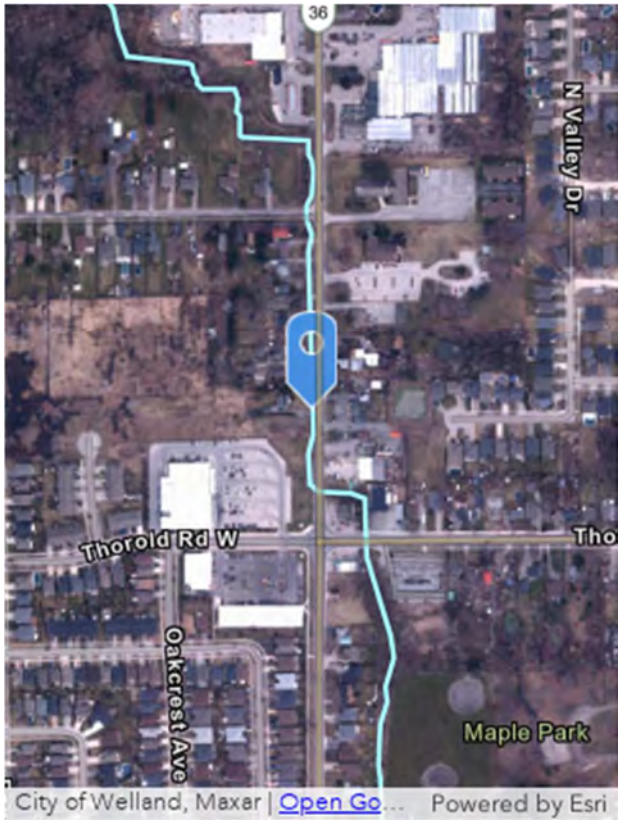
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Driveway Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 250
ABL ID: ABL_56	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.5 x 2.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.4	U/S Obvert Elev. (m): 180.9	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 9	D/S Invert Elev. (m): 179.5	D/S Obvert Elev. (m): 181.0	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 75		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

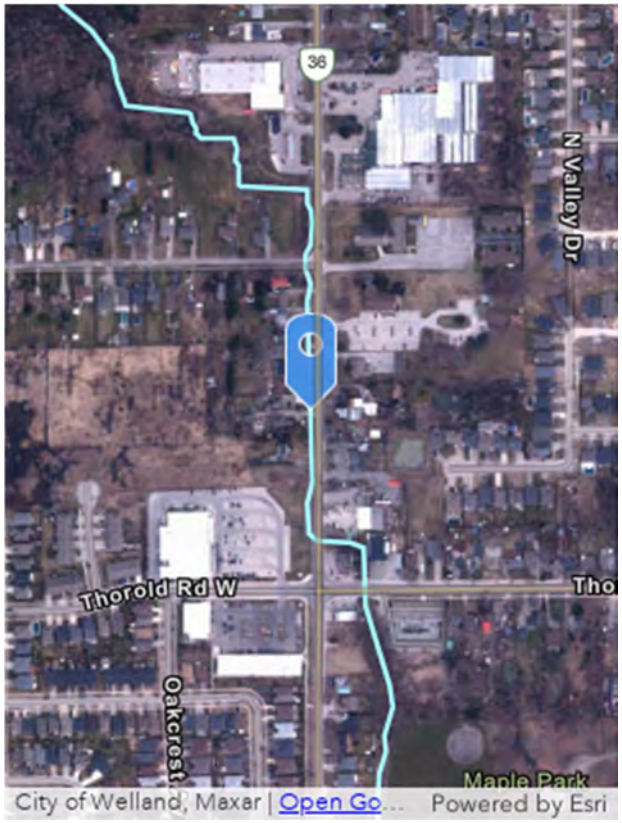
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_57	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.56	U/S Obvert Elev. (m):180.66	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 8	D/S Invert Elev. (m): 179.54	D/S Obvert Elev. (m): 180.64	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

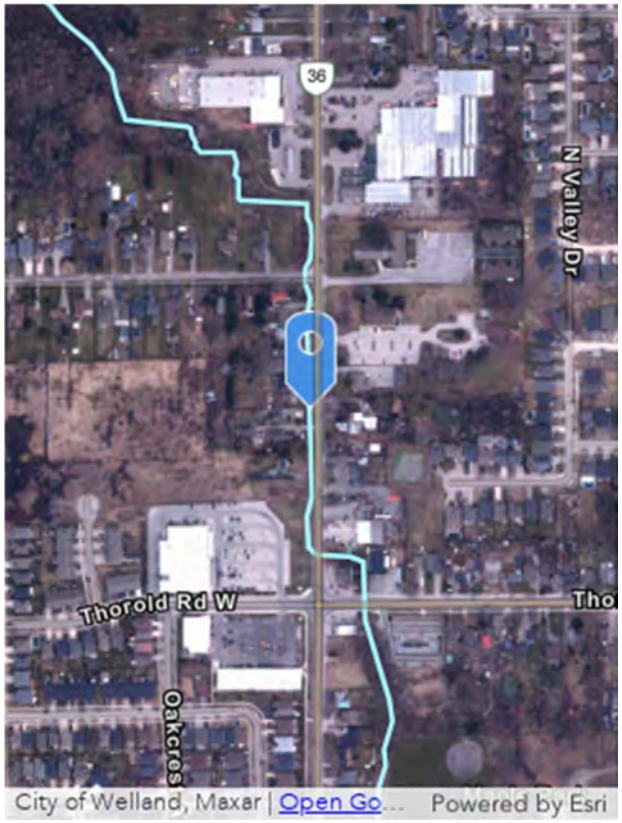
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 250
ABL ID: ABL_58	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.55	U/S Obvert Elev. (m):180.65	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 7	D/S Invert Elev. (m): 179.52	D/S Obvert Elev. (m): 180.62	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

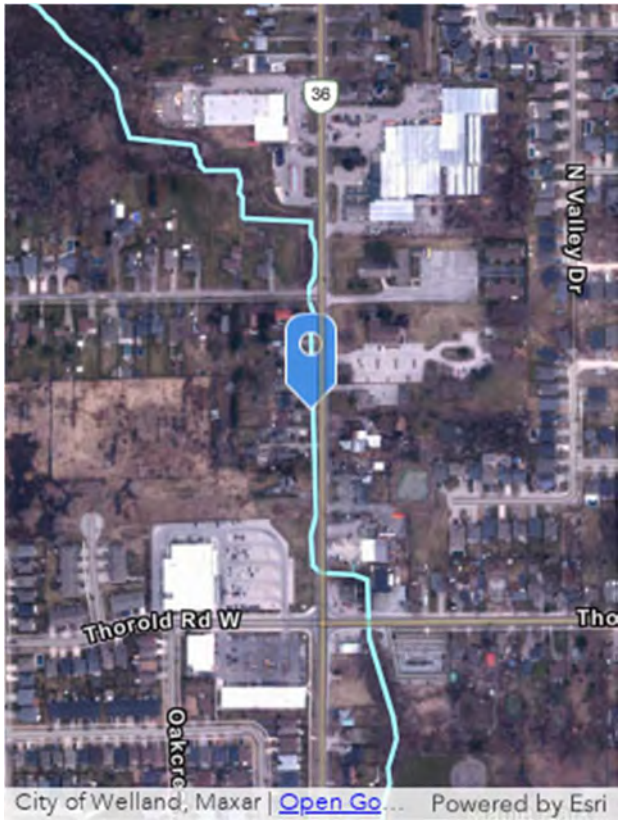
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 270
ABL ID: ABL_59	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.61	U/S Obvert Elev. (m):180.71	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 6	D/S Invert Elev. (m): 179.6	D/S Obvert Elev. (m): 180.7	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

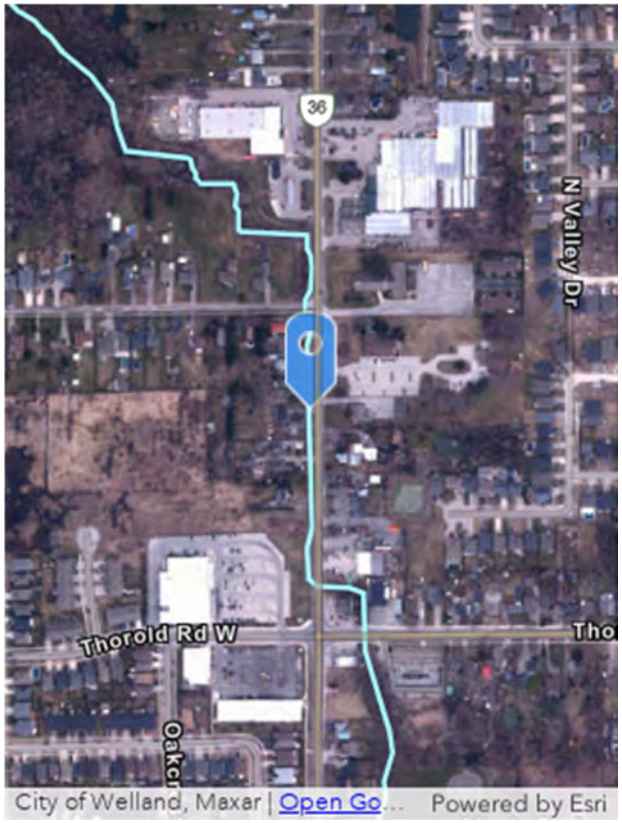
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 350
ABL ID: ABL_60	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.48	U/S Obvert Elev. (m): 180.58	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 5	D/S Invert Elev. (m): 179.56	D/S Obvert Elev. (m): 180.66	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

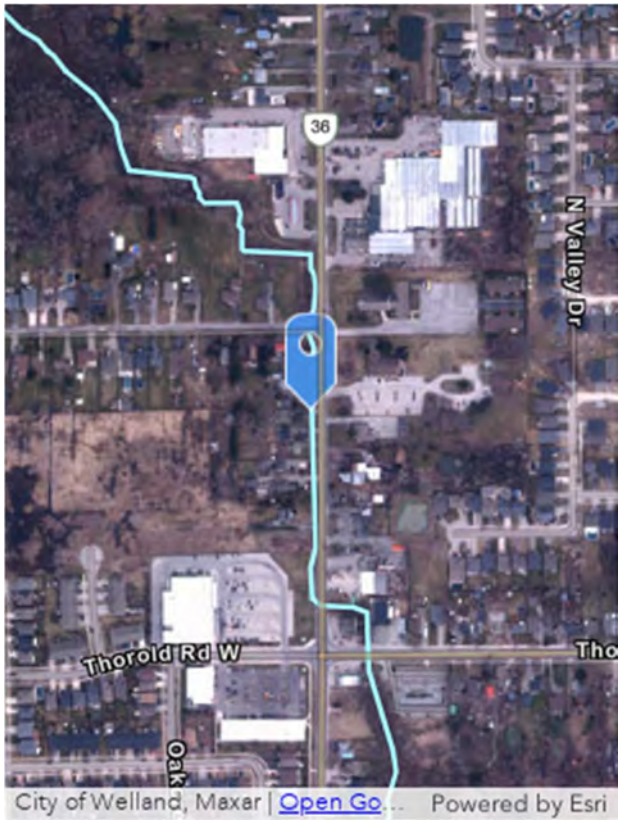
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 400
ABL ID: ABL_61	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.54	U/S Obvert Elev. (m):180.64	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 4	D/S Invert Elev. (m): 179.52	D/S Obvert Elev. (m): 180.62	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

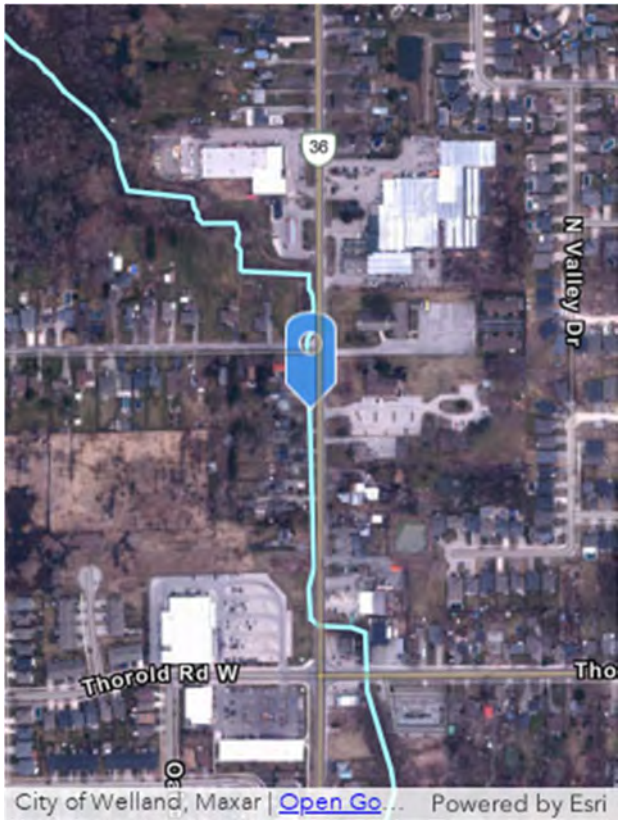
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 250
ABL ID: ABL_62	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.7	U/S Obvert Elev. (m): 180.8	Additional Information:
Location (Road Name/Intersection): South Pelham Rd	D/S Invert Elev. (m): 179.64	D/S Obvert Elev. (m): 180.74	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

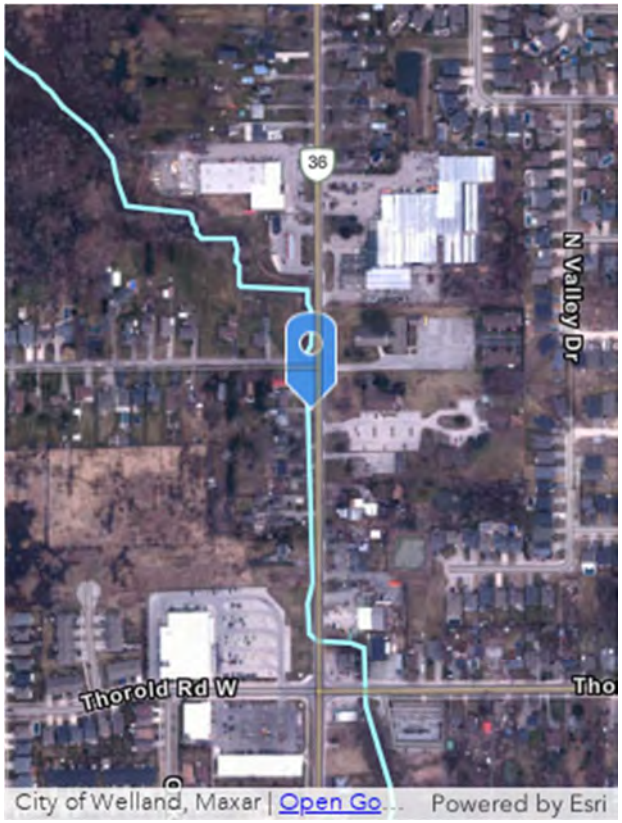
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 350
ABL ID: ABL_63	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.8	U/S Obvert Elev. (m): 180.9	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 2	D/S Invert Elev. (m): 179.8	D/S Obvert Elev. (m): 180.9	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

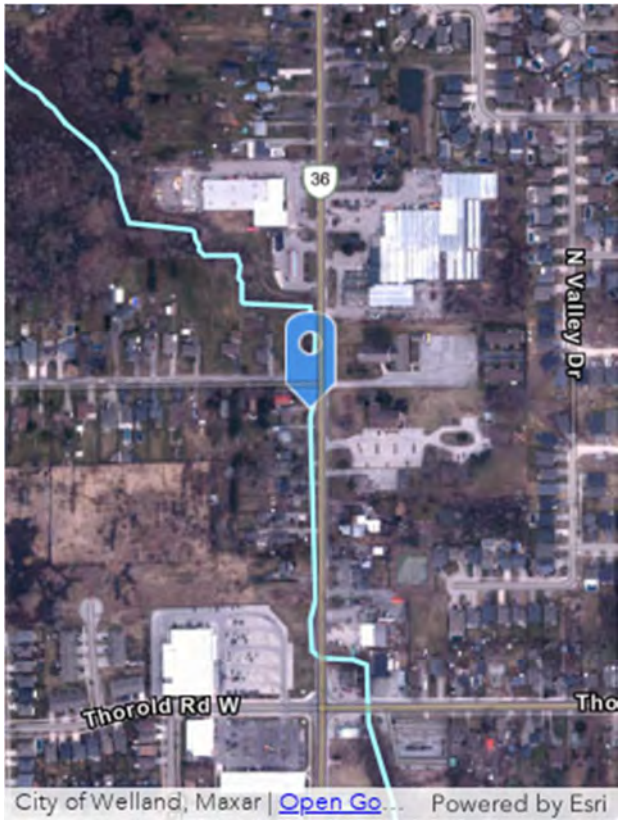
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 450
ABL ID: ABL_64	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.7	U/S Obvert Elev. (m):180.8	Additional Information:
Location (Road Name/Intersection): Sumbler Rd DS 1	D/S Invert Elev. (m): 179.8	D/S Obvert Elev. (m): 180.9	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

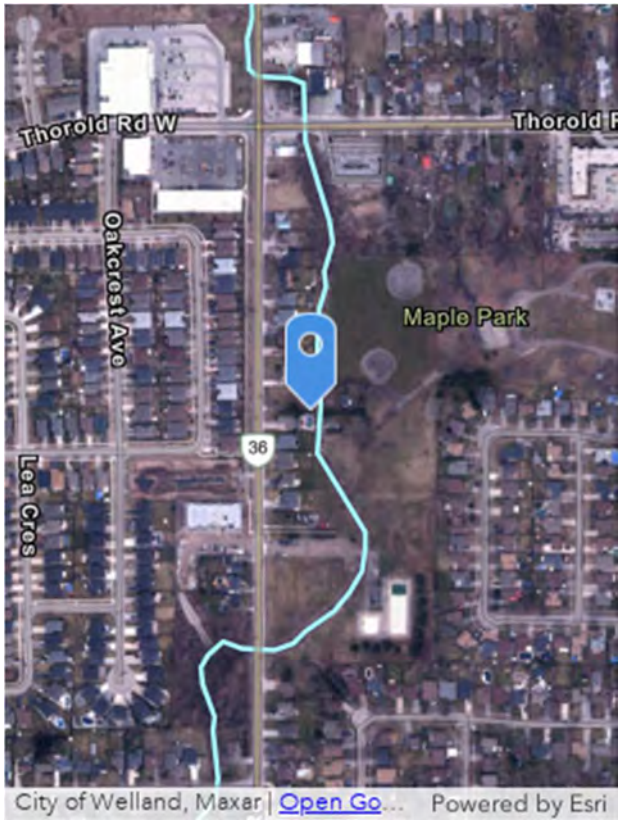
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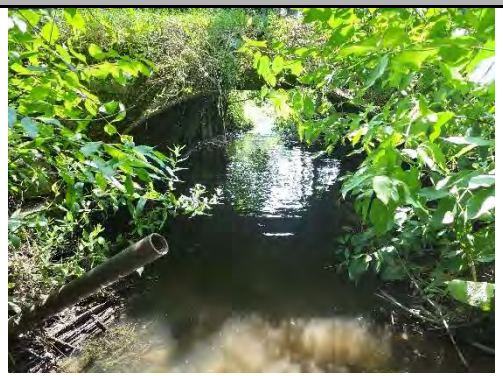
HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_65	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.3 x 2.3		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.94	U/S Obvert Elev. (m): 179.24	Additional Information:
Location (Road Name/Intersection): Private Driveway, Thorold Rd DS 1	D/S Invert Elev. (m): 178.05	D/S Obvert Elev. (m): 179.35	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 20		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

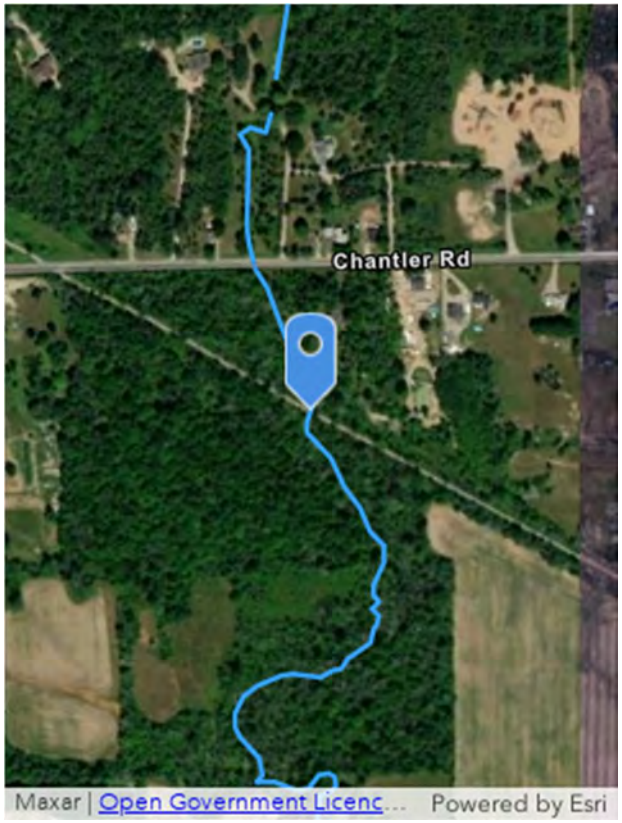
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Trail Bridge (Old	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 150
ABL ID: ABL_72	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 2.2 x 3.1		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: Heavy vegetation prevented collection of some XS points
Location (Road Name/Intersection): Trail, Chantler Rd DS 1	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

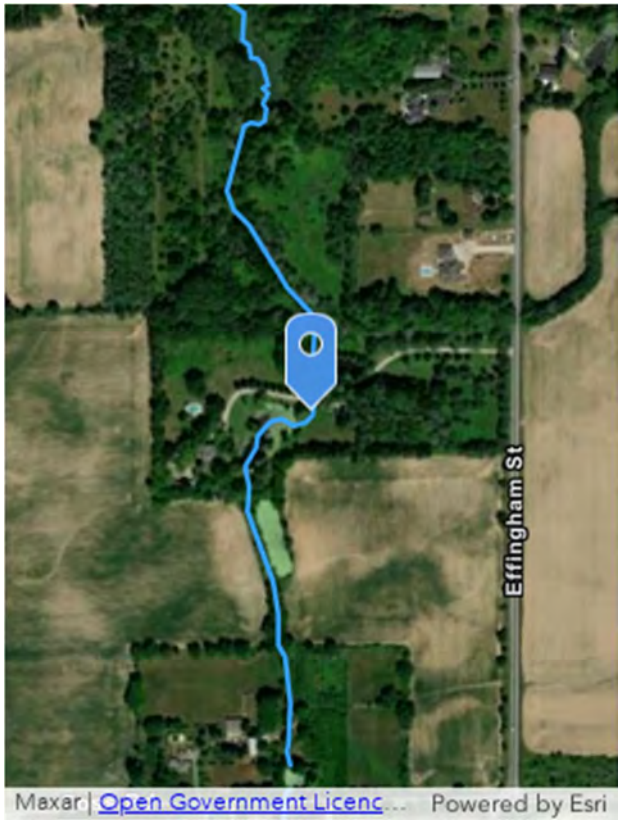
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/28/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 3	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 550
ABL ID: ABL_79	Material (Concrete/Steel): Corrugated Plastic		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.75 / 0.45		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 11.6		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 185.22	U/S Obvert Elev. (m): 185.97	Additional Information: Flows into pond second and third culvert 0.375m
Location (Road Name/Intersection): Foss Rd US 2	D/S Invert Elev. (m): 184.96	D/S Obvert Elev. (m): 185.71	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

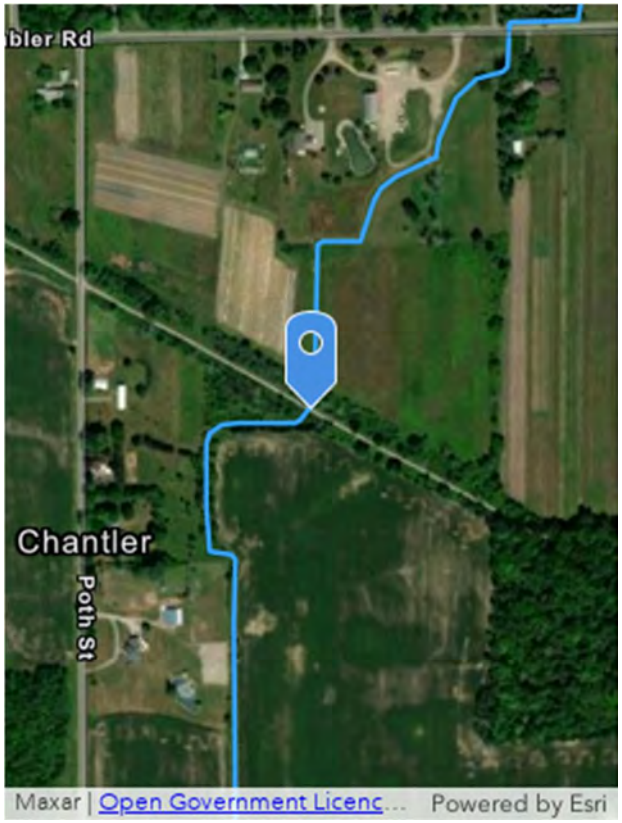
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 09/01/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_85	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.3 x 1.85		Upstream Erosion (Y/N):
Subcatchment Name:	Length (m): 13.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.61	U/S Obvert Elev. (m): 180.91	Additional Information:
Location (Road Name/Intersection): Trail	D/S Invert Elev. (m): 179.67	D/S Obvert Elev. (m): 180.97	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

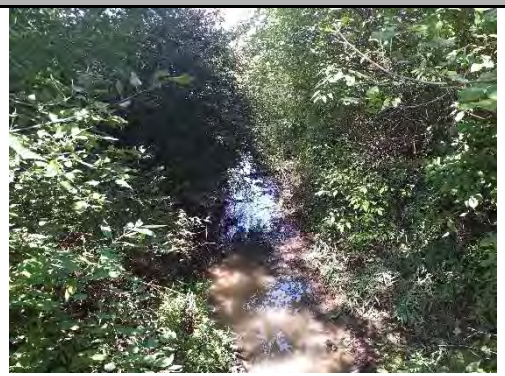
Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

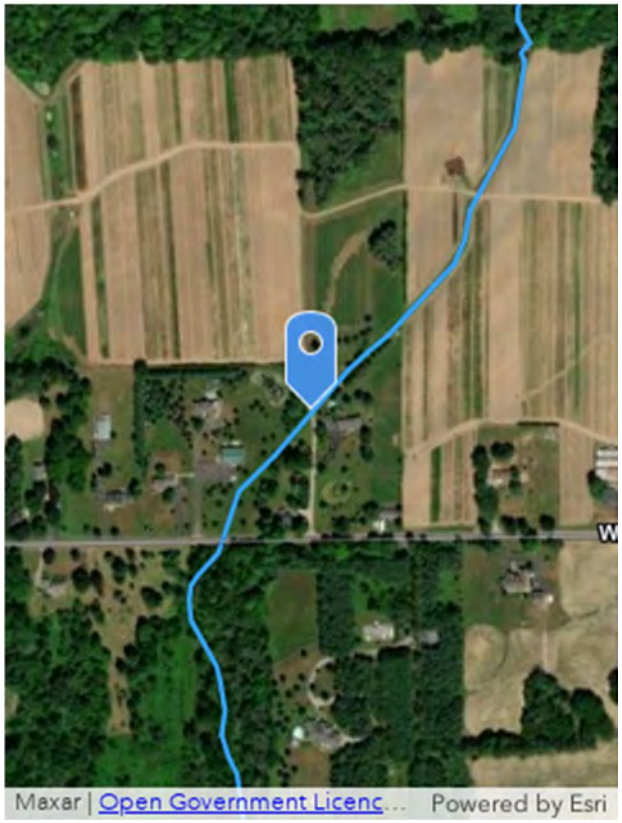
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT,MH	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 350
ABL ID: ABL_91	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.75 x 1.1		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 6.9		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 190.15	U/S Obvert Elev. (m): 190.9	Additional Information: second cell circular and smaller width 0.75m headwall is concrete block
Location (Road Name/Intersection): Welland Rd US 1	D/S Invert Elev. (m): 190.14	D/S Obvert Elev. (m): 190.89	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 25		
	Depth of Siltation (mm): 150		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

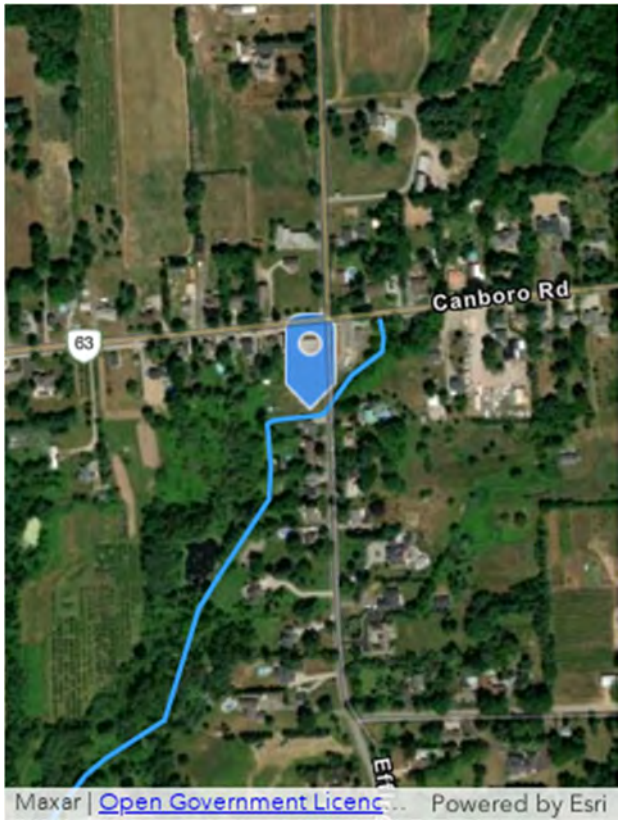
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT,MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 20
ABL ID: ABL_97	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.9 x 1.5		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 203.05	U/S Obvert Elev. (m): 203.95	Additional Information: runs under private backyard
Location (Road Name/Intersection): Effingham St DS 1	D/S Invert Elev. (m): 202.97	D/S Obvert Elev. (m): 203.87	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 5		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

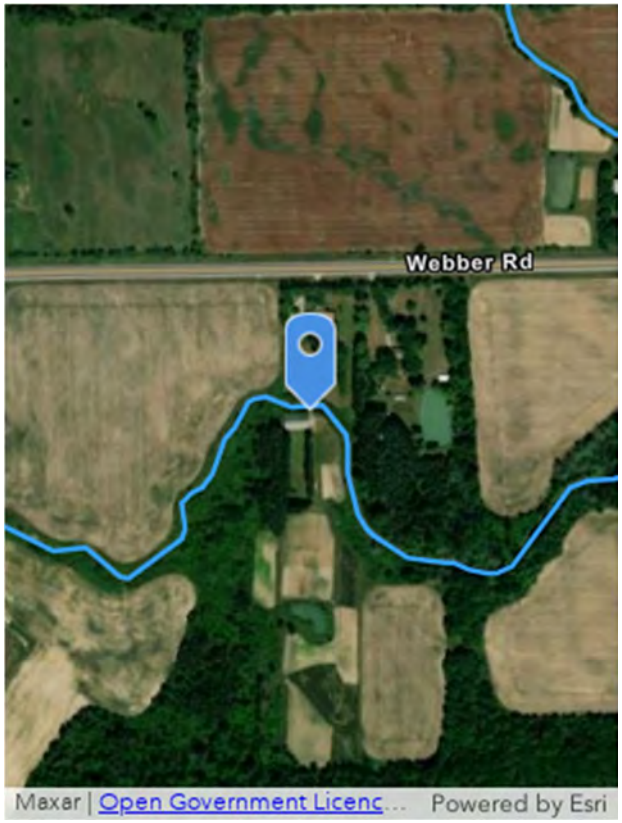
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 09/01/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 500
ABL ID: ABL_99	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.9 x 3.1		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 6.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 172.42	U/S Obvert Elev. (m): 174.32	Additional Information:
Location (Road Name/Intersection): Effingham St US 1	D/S Invert Elev. (m): 172.33	D/S Obvert Elev. (m): 174.23	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

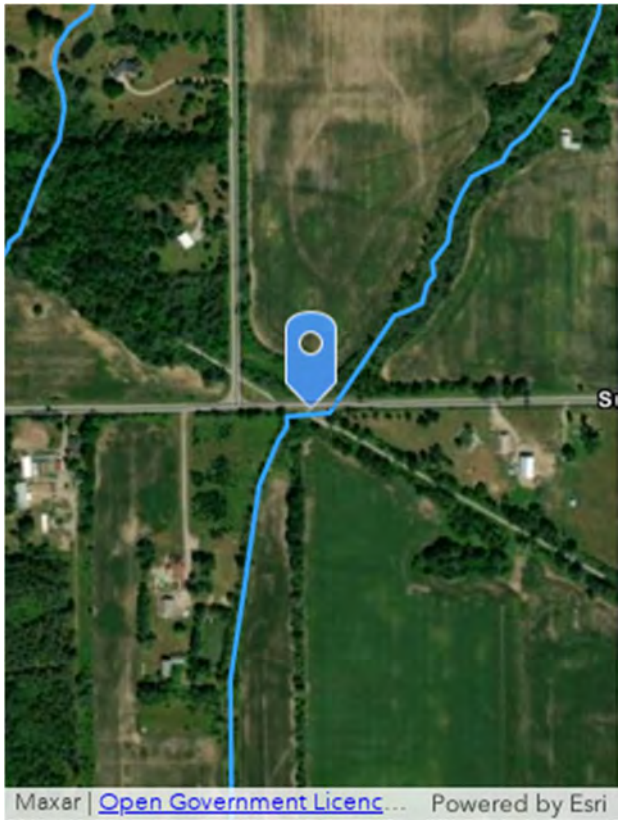
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_105	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.6		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 180.57	U/S Obvert Elev. (m): 181.17	Additional Information:
Location (Road Name/Intersection): Trail	D/S Invert Elev. (m): 180.52	D/S Obvert Elev. (m): 181.12	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

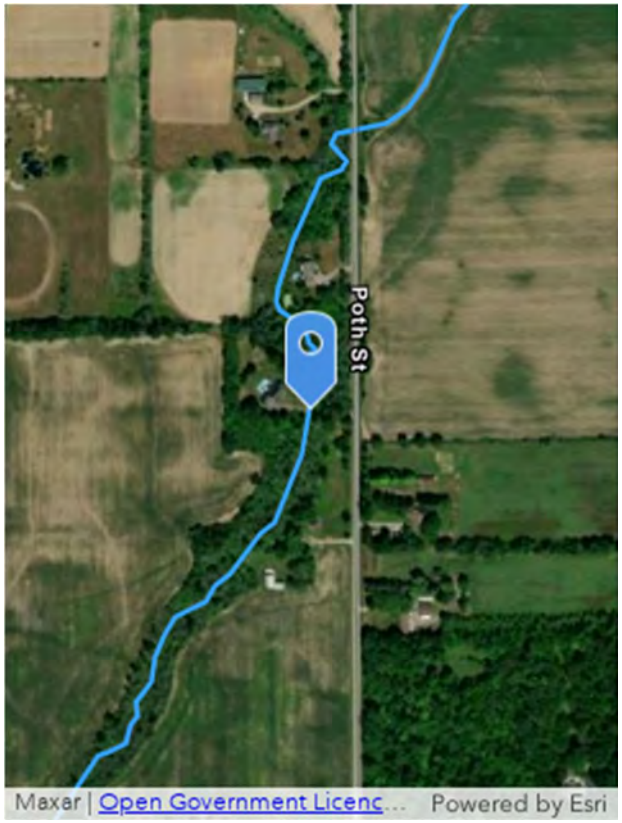
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 3	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 250
ABL ID: ABL_106	Material (Concrete/Steel): Plastic		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.6		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 9.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 182.65	U/S Obvert Elev. (m): 183.25	Additional Information:
Location (Road Name/Intersection): Poth St DS 1	D/S Invert Elev. (m): 182.55	D/S Obvert Elev. (m): 183.15	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

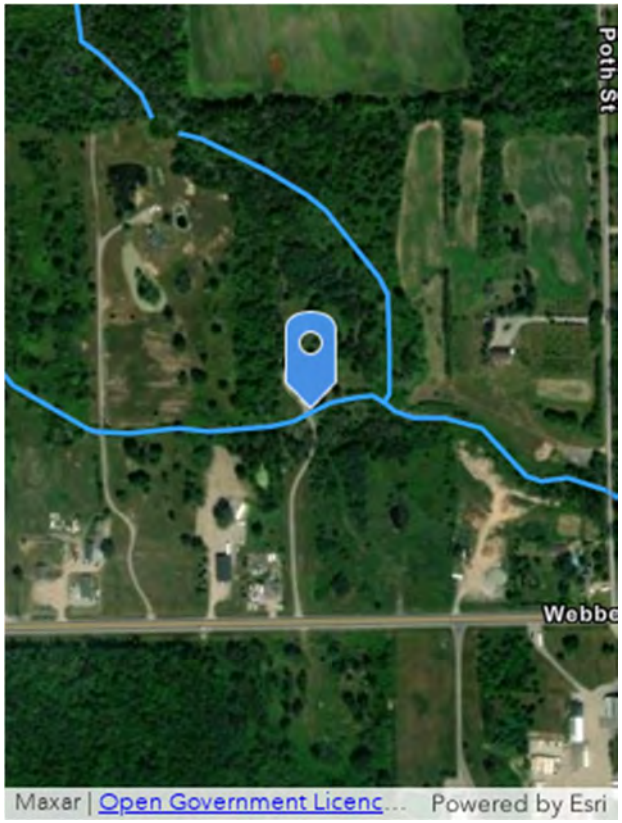
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT,TS	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_110	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 7.1		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 173.50	U/S Obvert Elev. (m): 175.30	Additional Information:
Location (Road Name/Intersection): Poth St US 1	D/S Invert Elev. (m): 173.51	D/S Obvert Elev. (m): 175.31	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

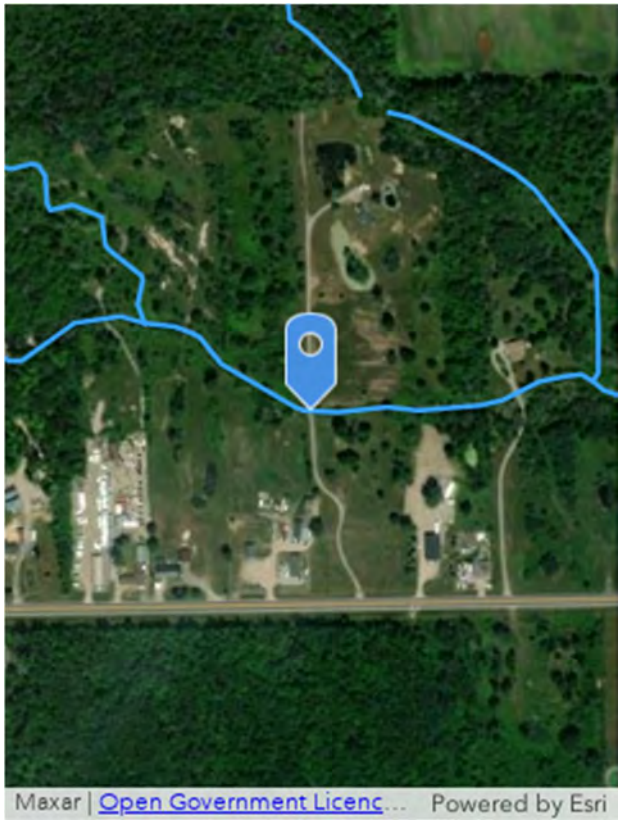
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_112	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.4 x 2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 9.5		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 174.0	U/S Obvert Elev. (m): 175.4	Additional Information: The upstream end is a culvert extension that is larger than the inside culvert. Dimesions above are of inner culvert.
Location (Road Name/Intersection): Poth St US 2	D/S Invert Elev. (m): 173.8	D/S Obvert Elev. (m): 175.2	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

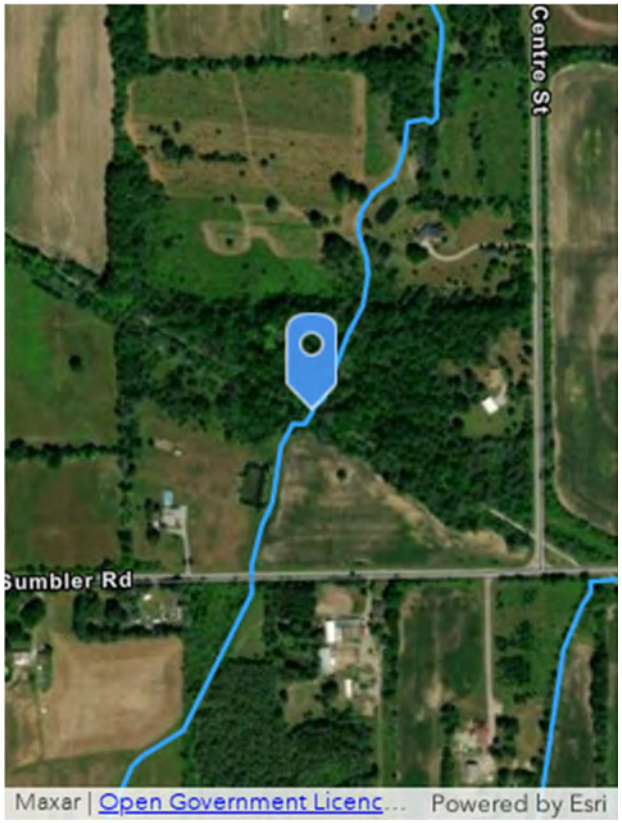
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_118	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 1.0		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 15		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 180.81	U/S Obvert Elev. (m): 181.81	Additional Information:
Location (Road Name/Intersection): Trail	D/S Invert Elev. (m): 180.70	D/S Obvert Elev. (m): 181.70	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

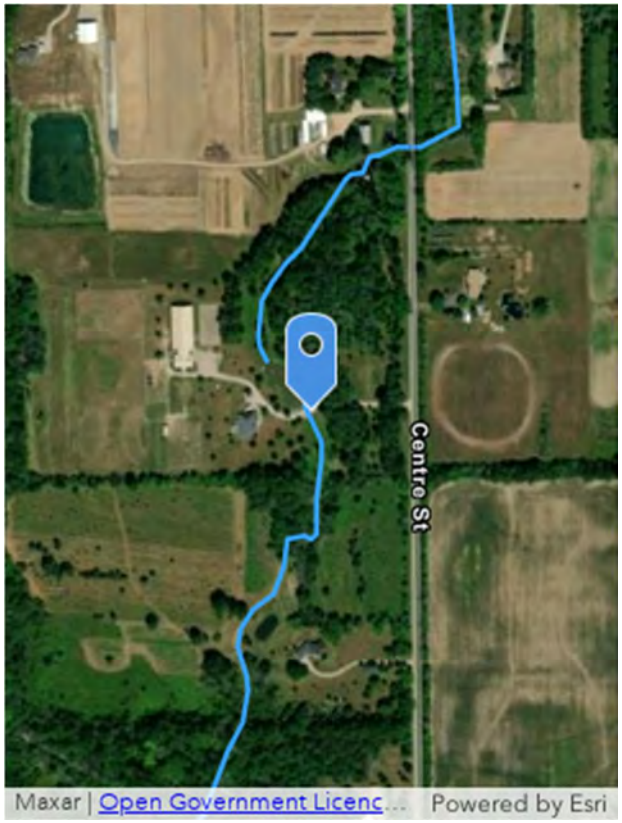
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 450
ABL ID: ABL_121	Material (Concrete/Steel): plastic		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.5		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 183.40	U/S Obvert Elev. (m): 183.90	Additional Information: US side is private pond. secondary cell is 0.45m CSP
Location (Road Name/Intersection): Centre St DS 1	D/S Invert Elev. (m): 183.20	D/S Obvert Elev. (m): 183.70	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

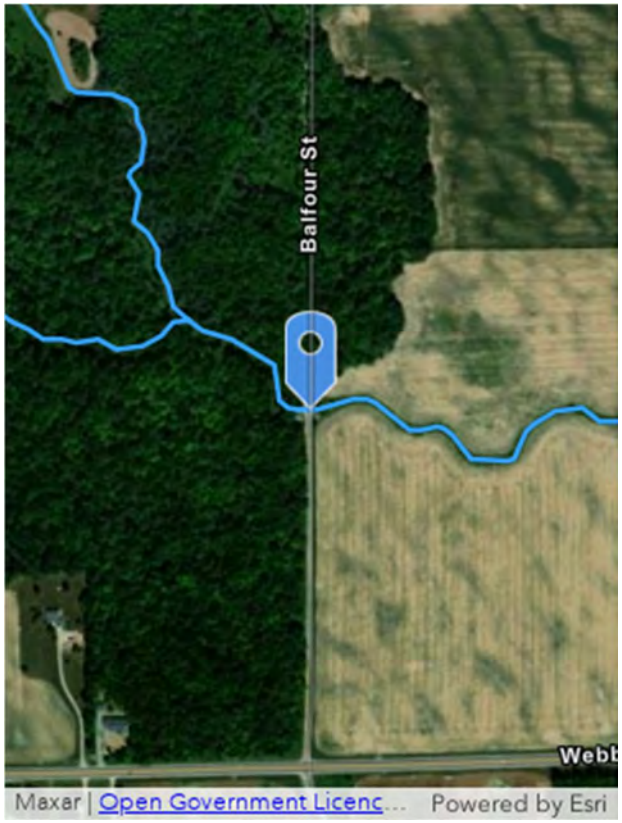
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 08/31/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 250
ABL ID: ABL_128	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 2.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 11.9		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 175.81	U/S Obvert Elev. (m):178.01	Additional Information:
Location (Road Name/Intersection): Balfour St	D/S Invert Elev. (m): 175.74	D/S Obvert Elev. (m): 177.94	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

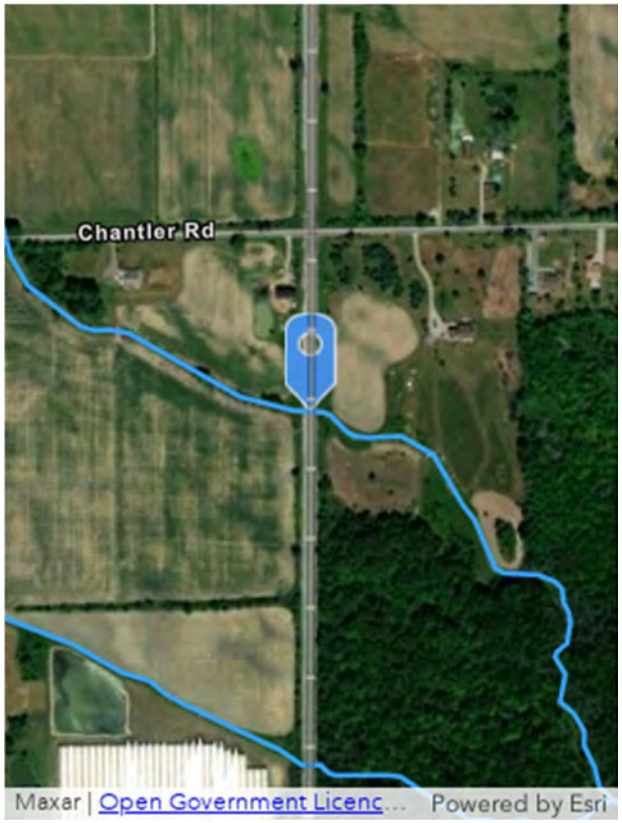
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 09/01/2023	Structure Type: Rail Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_129	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 2.3		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 17.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.70	U/S Obvert Elev. (m): 177.90	Additional Information:
Location (Road Name/Intersection): Railway between Church St and Balfour St	D/S Invert Elev. (m): 176.65	D/S Obvert Elev. (m): 177.85	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

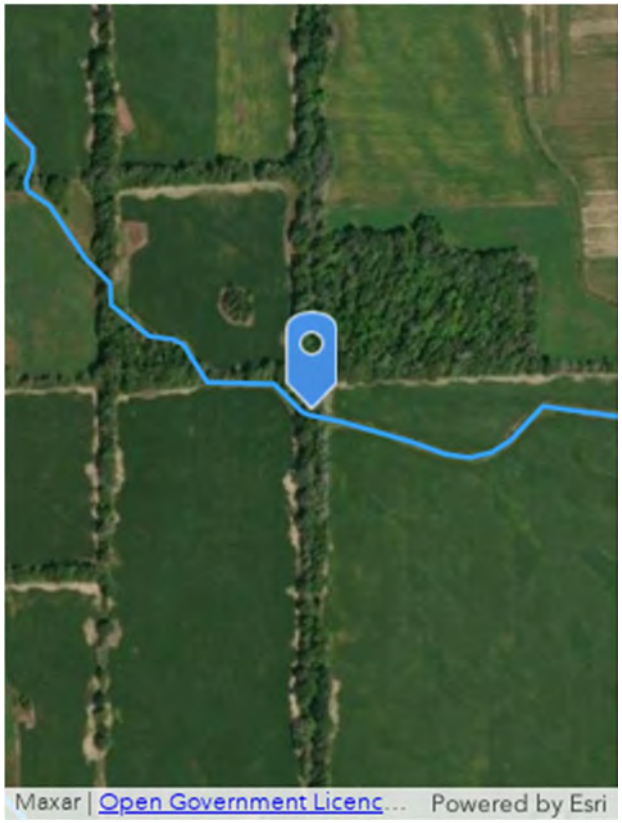
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 09/01/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_132	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 1.6		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 9.1		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 177.78	U/S Obvert Elev. (m): 178.98	Additional Information:
Location (Road Name/Intersection): Farr St	D/S Invert Elev. (m): 177.82	D/S Obvert Elev. (m): 179.02	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

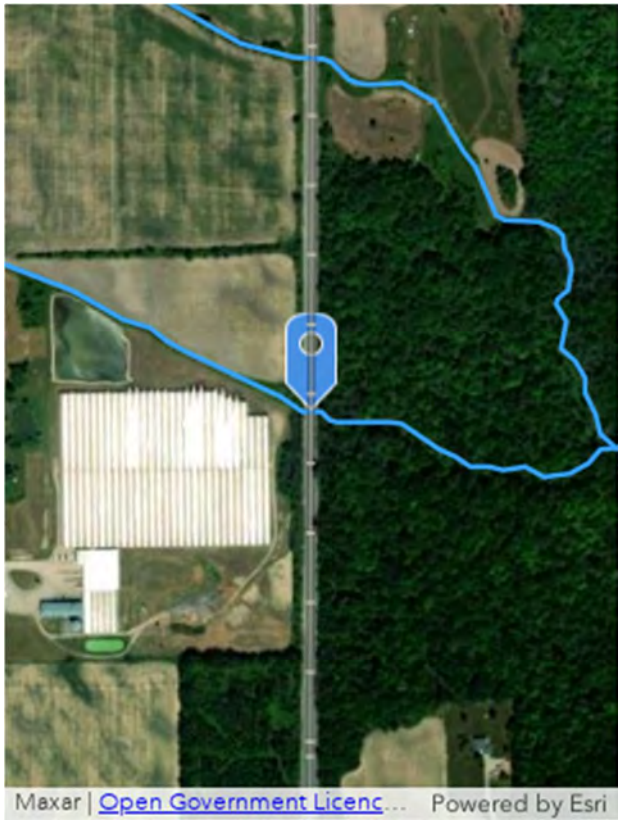
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 09/01/2023	Structure Type: Rail Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, TS	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 50
ABL ID: ABL_133	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 2.3		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 14.5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.95	U/S Obvert Elev. (m): 178.15	Additional Information:
Location (Road Name/Intersection): Railway between Church St and Balfour St	D/S Invert Elev. (m): 176.91	D/S Obvert Elev. (m): 178.11	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

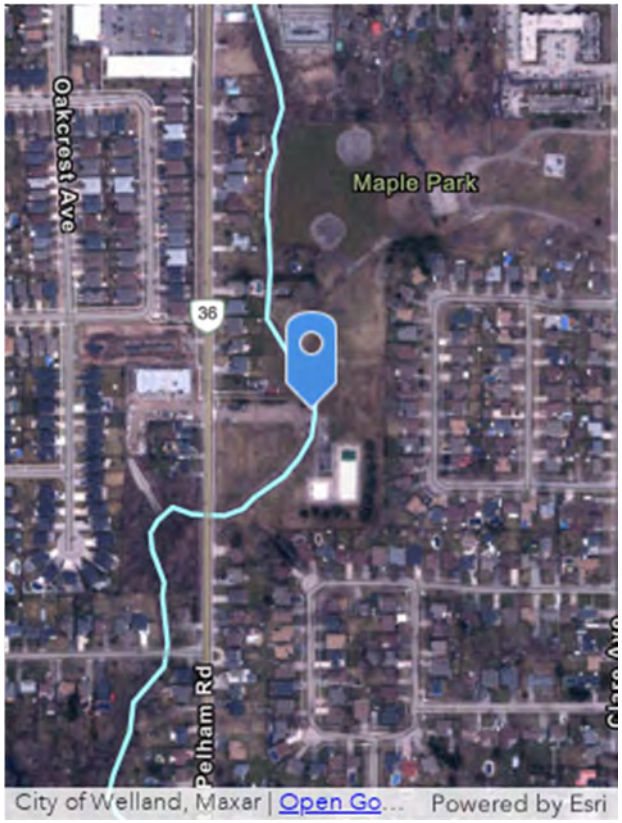
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 07/26/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): N
Field Crew: MT, JW	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 750
ABL ID: ABL_142	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.6 x 2.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.30	U/S Obvert Elev. (m): 178.90	Additional Information: US channel is offset from structure entrance, makes hard turn along head wall to enter the culvert
Location (Road Name/Intersection): Thorold Rd DS 2	D/S Invert Elev. (m): 177.36	D/S Obvert Elev. (m): 178.96	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

Description of Photograph: