Inventory Data

Structure Name:	Concession 4 NDR Lot 30 Culvert	**Site Number:**	B-105
District:		**Road Name:**	Concession 4
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	CSP (arch)	**Overall Struct. Width:**	25 m
Number of Spans:	2	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	7.4 m

GPS Coordinates (Degrees)

	Latitude:	44.211104	**Span (s):** 5.4 m
General			**Total Deck Area:** 185 sq.m
	Longitude:	-80.895677	**Current Load Limit:** 0

Inspection Data

Date of Inspection:	10-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	12
Special Notes:	Culvert is in good condition, recommend railing system repair.

Overall Inspection Summary

BCI: 74   **Next Inspection:** 10-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1992	**Contract Number When Built:**	
Latest Biennial Inspection:	March 23, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: East Barrel: View from south.

Description: West Barrel: View from south.

Description: West Barrel: View from north.

Description: Railing systems: Medium to severe rot throughout with localized 100% section loss.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-105	
Element Name:	Barrels	**Width:**	2.7	m
Element type:		**Height:**	2.7	m
Sub-element:		**Length:**	25	m
Material:	Corrugated Steel	**Count:**	2	
Location:		**Total Quantity:**	424	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 424   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 11:52 AM

Element Inspection

Element Group:	Culverts	**Site Number:**	B-105
Element Name:	Outlet Components	**Width:**	5.4 m
Element type:		**Height:**	2.7 m
Sub-element:		**Length:**	0 m
Material:	Corrugated Steel	**Count:**	1
Location:	North Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group:	Decks	**Site Number:**	B-105	
Element Name:	Wearing surface	**Width:**	6.6	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	7.4	m
Material:	Asphalt	**Count:**	1	
Location:		**Total Quantity:**	49	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 49   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 11:57 AM

Element Group: Embankments & Streams   **Site Number:** B-105

Element Name: Streams and Waterways   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 1

Location: **Total Quantity:** 1 each

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jun 10 11:56 AM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-105

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 10 11:57 AM

Element Group: Barriers

Element Name: Railing systems

Element type: Flexi beam with steel posts

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: B-105

Width: 0 m

Height: 0.8 m

Length: 24 m

Count: 2

Total Quantity: 48 m

Not inspected: ☐

Perform. deficiencies:

Maint needs: Barrier/railing system repair

Maintenance Type: Structural

Maint. Time Period: 2 Year

Condition Data (m):

Exec: 0   **Good:** 36   **Fair:** 6   **Poor:** 6

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Medium to severe rot throughout with localized 100% section loss.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-105	
Element Name:	Inlet Components	**Width:**	5.4	m
Element type:		**Height:**	2.7	m
Sub-element:		**Length:**	0	m
Material:	Corrugated Steel	**Count:**	1	
Location:	South Side	**Total Quantity:**	2	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	2	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

OSIM Biennial Inspection Report

Baseline, 0.3 km North of Grey Rd 4 Culvert

2024 Jun 11 11:43 AM

South Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Baseline, 0.3 km North of Grey Rd 4 Culve	**Site Number:**	G-132
District:		**Road Name:**	Baseline
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	50
Structure Type:	CSP (arch)	**Overall Struct. Width:**	13 m
Number of Spans:	2	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	4.5 m

GPS Coordinates (Degrees)

General	**Latitude:**	44.191241	**Span (s):** 3.6 m
	Longitude:	-80.768758	**Total Deck Area:** 58 sq.m
			Current Load Limit: 0

Inspection Data

Date of Inspection:	11-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	16
Special Notes:	Fill on structure = 0.2 m. Culvert is in poor condition. Barrel is misshaped. Inadequate fill over culverts. Recommend monitor deformations until replaced.

Overall Inspection Summary

BCI: 62

Next Inspection: 22-Mar-25

Additional Investigation Required:	Monitor Deformations and Cracking	**Priority:**	Medium
Additional Investigation Cost:			
Rehabilitation Needs:	Replace		
Rehabilitation Timing:	1 to 5 years		
Total Rehabilitation Budget Costings:	$261,000.00	**Engineering Fee:**	$31,320

Historical Data

Year Built:	1990	**Contract Number When Built:**	
Latest Biennial Inspection:	March 22, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	62	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: North barrel: View from east.

Description: South barrel: View from west.

Description: South barrel: View from east.

Description: Barrel: Bottom appears to be flattening.

Description: Barrel: Moderate deformation mid barrel.

Description: Inlet: Severe scouring of south barrel.

Element Inspection

Element Group:	Culverts	**Site Number:**	G-132
Element Name:	Barrels	**Width:**	1.8 m
Element type:		**Height:**	1.2 m
Sub-element:		**Length:**	21.4 m
Material:	Corrugated Steel	**Count:**	2
Location:		**Total Quantity:**	161 sqm
Environment:	Moderate	**Not inspected:**	☐
Perform. deficiencies:	Load carrying capacity	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	121	**Fair:**	20	**Poor:**	20

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Bottom appears to be flattening. Moderate deformation mid barrel. North barrel at time of inspection: Height - 1.07m, Width: 1.85m. South barrel at time of inspection: Height - 1.24m, Width: 1.83m. Both measured from West end.

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: East Side

Environment: Moderate

Site Number: G-132

Width: 4.5 m

Height: 1.2 m

Length: 0 m

Count: 2

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Severe scouring of south barrel.

2024 Jun 11 11:42 AM

Element Inspection

Element Group:	Decks	**Site Number:**	G-132
Element Name:	Wearing surface	**Width:**	6.6 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	4.5 m
Material:	Gravel	**Count:**	1
Location:		**Total Quantity:**	30 sqm
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 30   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group: Embankments & Streams
Element Name: Embankments
Element type:
Sub-element:
Material:
Location:
Environment: Moderate

Site Number: G-132
Width: 0 m
Height: 0 m
Length: 0 m
Count: 4
Total Quantity: 4 each
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:
Rehab time period: None Recommended
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	G-132
Element Name:	Outlet Components	**Width:**	4.5 m
Element type:		**Height:**	1.2 m
Sub-element:		**Length:**	0 m
Material:	Steel	**Count:**	2
Location:	West Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	2	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: G-132

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Culvert (overall)	**Site Number:**	G-132
Element Name:	All Elements	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:	Corrugated Steel	**Count:**	2
Location:		**Total Quantity:**	2 sqm
Environment:		**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	0	**Fair:**	0	**Poor:**	2

Rehab Needs:	CSP Replacement	**Unit Cost:**	$4500 / sq.m
Rehab time period:	1 - 5 Years	**Estimated Cost:**	$261,000
Quantity:	58 sq.m		

General Comments:

Barrel has advanced deformations recommend monitor further deformations until replacement.

OSIM Biennial Inspection Report

Concession 14 NDR Lot 11 Culvert

2024 Jun 13 10:37 AM

East Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Concession 14 NDR Lot 11 Culvert	**Site Number:**	B-118
District:		**Road Name:**	Concession 14
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	50
Structure Type:	CSP (arch)	**Overall Struct. Width:**	16 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	2.4 m

GPS Coordinates (Degrees)

General	**Latitude:**	44.285975	**Span (s):** 2.4 m
	Longitude:	-81.014148	**Total Deck Area:** 38 sq.m
			Current Load Limit: 0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74

Next Inspection: 13-Jun-26

Additional Investigation Required:	
Priority:	
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	
Engineering Fee:	

Historical Data

Year Built:	1980	**Contract Number When Built:**	
Latest Biennial Inspection:	March 22, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Improper splice bolt pattern, no cracking noted.

2024 Jun 13 10:35 AM

Description: Barrel: Light corrosion along waterline.

Description: Barrel: Moderate deformation mid barrel.

Description: West barrel: View from south.

Description: East barrel: View from north.

2024 Jun 13 10:33 AM

Description: West barrel: View from north.

2024 Jun 13 10:34 AM

Description: Wearing surface: Moderate erosion at edges.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-118	
Element Name:	Barrels	**Width:**	2.4	m
Element type:		**Height:**	1.9	m
Sub-element:		**Length:**	16	m
Material:	Corrugated Steel	**Count:**	1	
Location:		**Total Quantity:**	121	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 119   **Fair:** 2   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Improper splice bolt pattern, no cracking noted. Light corrosion along waterline. Moderate deformation mid barrel.

2024 Jun 13 10:31 AM

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: B-118

Width: 2.4 m

Height: 1.9 m

Length: 0 m

Count: 2

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 10:33 AM

Element Group:	Culverts	**Site Number:**	B-118
Element Name:	Outlet Components	**Width:**	2.4 m
Element type:		**Height:**	1.9 m
Sub-element:		**Length:**	0 m
Material:	Corrugated Steel	**Count:**	2
Location:	South Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 2 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 10:32 AM

Element Group: Decks   **Site Number:** B-118

Element Name: Wearing surface   **Width:** 6.5 m

Element type: **Height:** 0 m

Sub-element: **Length:** 2.4 m

Material: Gravel   **Count:** 1

Location: **Total Quantity:** 16 sqm

Environment: Severe   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 16   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Moderate erosion at edges.

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-118

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments & Streams   **Site Number:** B-118

Element Name: Streams and Waterways   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 1

Location: **Total Quantity:** 1 each

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jun 13 10:36 AM

OSIM Biennial Inspection Report

West Grey

Concession 2 & 3E, Lot 3

2024 Jun 13 01:45 PM

North Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Concession 2 & 3E, Lot 3	**Site Number:**	G-030
District:		**Road Name:**	Concession 2
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	9.75 m
Number of Spans:	1	**Roadway Width:**	8.5 m
Direction of Structure:	East-West	**Total Deck Length:**	7.3 m

GPS Coordinates (Degrees)

General

Latitude:	44.310179	**Span (s):**	6.4 m
Longitude:	-80.821420	**Total Deck Area:**	71 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 13-Jun-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:	1965	**Contract Number When Built:**	
Latest Biennial Inspection:	March 27, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from west.

Description: Hand Railings: Minor localized damage.

Description: Barrel: Medium vertical crack with wetness staining.

2024 Jun 13 01:41 PM

Element Group: Accessories (Attachments and Signs)

Element Name: Signs

Element type:

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: G-030

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Barriers

Element Name: Hand Railings

Element type:

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: G-030

Width: 0 m

Height: 1 m

Length: 7.3 m

Count: 2

Total Quantity: 15 m

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (m):

Exec: 0   **Good:** 14   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Minor localized damage.

2024 Jun 13 01:44 PM

Element Inspection

Element Group: Barriers

Element Name: Railing Systems

Element type: Flexi beam with timber posts

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: G-030

Width: 0 m

Height: 1.05 m

Length: 33 m

Count: 2

Total Quantity: 66 m

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (m):

Exec: 0   **Good:** 66   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Culverts

Element Name: Barrels

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: G-030

Width: 6.4 m

Height: 2.5 m

Length: 9.75 m

Count: 1

Total Quantity: 111 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 110 **Fair:** 1 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Medium vertical crack with wetness staining.

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: East Side

Environment: Moderate

Site Number: G-030

Width: 7.3 m

Height: 2.5 m

Length: 0 m

Count: 1

Total Quantity: 59 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 59 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 01:40 PM

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: West Side

Environment: Moderate

Site Number: G-030

Width: 7.3 m

Height: 2.5 m

Length: 0 m

Count: 1

Total Quantity: 59 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 59   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Group:	Decks	**Site Number:**	G-030	
Element Name:	Wearing Surface	**Width:**	8.5	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	7.3	m
Material:	Gravel	**Count:**	1	
Location:		**Total Quantity:**	62	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	62	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 01:44 PM

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	G-030
Element Name:	Embankments	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:		**Count:**	4
Location:		**Total Quantity:**	4 each
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	G-030
Element Name:	Streams and Waterways	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:		**Count:**	1
Location:		**Total Quantity:**	1 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground level)

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: G-030

Width: m

Height: m

Length: m

Count:

Total Quantity: each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

Old Bridge Rd South Culvert

2024 Jun 10 01:32 PM

South Approach

Burgess Engineering Inc

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Old Bridge Rd South Culvert	**Site Number:**	B-114
District:		**Road Name:**	Old Bridge Road
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	50
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	13.5 m
Number of Spans:	1	**Roadway Width:**	6 m
Direction of Structure:	North-South	**Total Deck Length:**	3.7 m

GPS Coordinates (Degrees)

General

Latitude:	44.159073	**Span (s):**	3.1 m
Longitude:	-80.949583	**Total Deck Area:**	50 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	10-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	12
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 73   **Next Inspection:** 10-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1950	**Contract Number When Built:**	
Latest Biennial Inspection:	March 27, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	73	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from west.

Description: Barrel: Light vertical cracks with wetness and leachate staining.

Description: Barrel: Shallow delamination throughout.

Description: Barrel: Shallow localized spall with exposed reinforcing.

Description: Wearing surface: Moderate potholes throughout.

Description: Wearing surface: Severe alligator cracking at shoulders.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-114
Element Name:	Barrels	**Width:**	3.1 m
Element type:		**Height:**	1.3 m
Sub-element:		**Length:**	13.5 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:		**Total Quantity:**	77 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 75   **Fair:** 1   **Poor:** 1

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Light vertical cracks with wetness and leachate staining. Shallow delamination throughout. Shallow localized spall with exposed reinforcing.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-114
Element Name:	Inlet Components	**Width:**	3.7 m
Element type:		**Height:**	1.3 m
Sub-element:		**Length:**	0 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:	East Side	**Total Quantity:**	12 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 12   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 19 01:27 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	B-114
Element Name:	Outlet Components	**Width:**	3.7 m
Element type:		**Height:**	1.3 m
Sub-element:		**Length:**	0 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:	West Side	**Total Quantity:**	12 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	12	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Group:	Decks	**Site Number:**	B-114	
Element Name:	Wearing Surface	**Width:**	6	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	3.7	m
Material:	Asphalt	**Count:**	1	
Location:		**Total Quantity:**	22	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	Structural
Maint needs:	Asphalt Repairs	**Maint. Time Period:**	2 Year

Condition Data (sqm):

Exec: 0   **Good:** 0   **Fair:** 7   **Poor:** 15

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Moderate potholes throughout. Severe alligator cracking at shoulders.

2024 Jun 10 01:31 PM

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	B-114
Element Name:	Embankments	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:		**Count:**	4
Location:		**Total Quantity:**	4 each
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 01:31 PM

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-114

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 10 01:30 PM

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground level)

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: B-114

Width: m

Height: m

Length: m

Count: 2

Total Quantity: 2 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0 **Good:** 2 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

Concession 2 & 3W, Lot 100, West Back Line Road

2024 Jun 12 01:59 PM

South Approach

Inventory Data

Structure Name:	Concession 2 & 3W, Lot 100, West Back L	**Site Number:**	G-035
District:		**Road Name:**	West Back Line
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	0
Structure Type:	Concrete Arch	**Overall Struct. Width:**	20.75 m
Number of Spans:	1	**Roadway Width:**	7.3 m
Direction of Structure:	East-West	**Total Deck Length:**	10.7 m
GPS Coordinates (Degrees)		**Span (s):**	10.21 m
General **Latitude:**	44.304194	**Total Deck Area:**	222 sq.m
Longitude:	-80.664893	**Current Load Limit:**	0

Inspection Data

Date of Inspection:	12-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	22
Special Notes:	Culvert is in good to fair condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 73   **Next Inspection:** 12-Jun-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:	1940	**Contract Number When Built:**	
Latest Biennial Inspection:	March 24, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	73	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from west.

Description: Barrel: Medium to wide transverse cracks with leachate staining (1/2).

Description: Barrel: Medium to wide transverse cracks with leachate staining (2/2).

Element Group: Culverts   **Site Number:** G-035

Element Name: Barrels   **Width:** 10.21 m

Element type: **Height:** 3.7 m

Sub-element: **Length:** 20.75 m

Material: Cast-in-place Concrete   **Count:** 1

Location: **Total Quantity:** 365 sqm

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 350   **Fair:** 10   **Poor:** 5

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Medium to wide transverse cracks with leachate staining.

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	G-035
Element Name:	Streams and Waterways	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:		**Count:**	1
Location:		**Total Quantity:**	1 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	1	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group: Culverts
Element Name: Inlet Components
Element type:
Sub-element:
Material: Cast-in-place Concrete
Location: East Side
Environment: Moderate

Site Number: G-035
Width: 10.21 m
Height: 3.7 m
Length: 0 m
Count: 1
Total Quantity: 7 sqm
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 7 **Fair:** 0 **Poor:** 0

Rehab Needs:
Rehab time period: None Recommended
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

2024 Jun 12 01:53 PM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: G-035

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Decks	**Site Number:**	G-035
Element Name:	Wearing surface	**Width:**	10.7 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	7.3 m
Material:	Asphalt	**Count:**	1
Location:		**Total Quantity:**	78 sqm
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 78   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 12 01:59 PM

Element Inspection

Element Group: Barriers

Element Name: Railing systems

Element type: Flexi beam with steel posts

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: G-035

Width: 0 m

Height: 0.7 m

Length: 60 m

Count: 2

Total Quantity: 120 m

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (m):

Exec: 0   **Good:** 120   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Foundations	**Site Number:**	G-035
Element Name:	Foundation (below ground level)	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:	Cast-in-place Concrete	**Count:**	0
Location:		**Total Quantity:**	0 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	0	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

No signs of settlement.

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: West Side

Environment: Moderate

Site Number: G-035

Width: 10.21 m

Height: 3.7 m

Length: 0 m

Count: 1

Total Quantity: 7 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 7   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

OSIM Biennial Inspection Report

West Grey

Concession 6, West of Glenelg Rd 23 Culvert

2024 Jun 12 03:33 PM

East Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Concession 6, West of Glenelg Rd 23 Culv	**Site Number:**	G-148
District:		**Road Name:**	Concession 6
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	13 m
Number of Spans:	1	**Roadway Width:**	7 m
Direction of Structure:	East-West	**Total Deck Length:**	6.7 m

GPS Coordinates (Degrees)

General

Latitude:	44.248521	**Span (s):**	5.7 m
Longitude:	-80.724623	**Total Deck Area:**	87 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	12-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	25
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 12-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1980	**Contract Number When Built:**	
Latest Biennial Inspection:	March 24, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from north.

Description: Inlet: Light to medium cracking with leachate staining.

Element Group:	Culverts	**Site Number:**	G-148	
Element Name:	Barrels	**Width:**	5.7	m
Element type:		**Height:**	1.33	m
Sub-element:		**Length:**	13	m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:		**Total Quantity:**	109	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	109	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: South Side

Environment: Moderate

Site Number: G-148

Width: 6.7 m

Height: 1.33 m

Length: 0 m

Count: 1

Total Quantity: 14 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 13   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Light to medium cracking with leachate staining.

2024 Jun 12 03:30 PM

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: North Side

Environment: Moderate

Site Number: G-148

Width: 6.7 m

Height: 1.33 m

Length: 0 m

Count: 1

Total Quantity: 14 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 14   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:32 PM

Element Inspection

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: G-148

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: G-148

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:32 PM

Element Inspection

Element Group: Foundations
Element Name: Foundation (below ground level)
Element type:
Sub-element:
Material: Cast-in-place Concrete
Location:
Environment: Benign

Site Number: G-148
Width: 0 m
Height: 0 m
Length: 0 m
Count: 0
Total Quantity: 0 each
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

No signs of settlement.

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location:

Environment: Severe

Site Number: G-148

Width: 7 m

Height: 0 m

Length: 6.7 m

Count: 1

Total Quantity: 47 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 47   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:32 PM

OSIM Biennial Inspection Report

West Grey

Concession 8/9, Lot 10

2024 Jun 12 03:20 PM

West Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Concession 8/9, Lot 10	**Site Number:**	G-197
District:		**Road Name:**	Concession 8
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	CSP (round)	**Overall Struct. Width:**	15 m
Number of Spans:	2	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	3.6 m

GPS Coordinates (Degrees)

General	**Latitude:** 44.265322	**Span (s):**	3.6 m
	Longitude: -80.740276	**Total Deck Area:**	54 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	12-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	25
Special Notes:	Culvert is in excellent condition showing no signs of structural distress.

Overall Inspection Summary

BCI: 98   **Next Inspection:** 12-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:		**Contract Number When Built:**	
Latest Biennial Inspection:	March 24, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	98	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Moderate deformation at midspan in east barrel.

2024 Jun 12 03:18 PM

Description: West barrel: View from south.

2024 Jun 12 03:18 PM

Description: East barrel: View from north.

Description: West barrel: View from north.

Element Inspection

Element Group:	Culverts	**Site Number:**	G-197	
Element Name:	Barrels	**Width:**	1.8	m
Element type:		**Height:**	1.2	m
Sub-element:		**Length:**	12.5	m
Material:	Corrugated Steel	**Count:**	2	
Location:		**Total Quantity:**	94	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 92   **Good:** 0   **Fair:** 2   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Moderate deformation at midspan in east barrel. Recommend monitoring deformation at next inspection.

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: South Side

Environment: Moderate

Site Number: G-197

Width: 1.8 m

Height: 1.2 m

Length: 0 m

Count: 2

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 2   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:17 PM

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location:

Environment: Severe

Site Number: G-197

Width: 6 m

Height: 0 m

Length: 3.6 m

Count: 1

Total Quantity: 22 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 22   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:19 PM

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: G-197

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:19 PM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: G-197

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	G-197
Element Name:	Outlet Components	**Width:**	1.8 m
Element type:		**Height:**	1.2 m
Sub-element:		**Length:**	0 m
Material:	Corrugated Steel	**Count:**	2
Location:	North Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 2   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

OSIM Biennial Inspection Report

West Grey

Welbeck Rd Culvert

2024 Jun 13 12:46 PM

East Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Welbeck Rd Culvert	**Site Number:**	B-196
District:		**Road Name:**	Welbeck Road
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	7.9 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	4.1 m

GPS Coordinates (Degrees)

General

Latitude:	44.275308	**Span (s):**	3.1 m
Longitude:	-80.893057	**Total Deck Area:**	32 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in fair condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 67   **Next Inspection:** 13-Jun-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:		**Contract Number When Built:**	
Latest Biennial Inspection:	March 27, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	67	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from north.

Description: Barrel: Shallow to severe delaminations with exposed reinforcing throughout.

Description: Inlet: Shallow spall.

Description: Inlet: Light horizontal cracking with leachate staining.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-196
Element Name:	Barrels	**Width:**	3.1 m
Element type:		**Height:**	1 m
Sub-element:		**Length:**	7.9 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:		**Total Quantity:**	40 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 32   **Fair:** 6   **Poor:** 2

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Shallow to severe delaminations with exposed reinforcing throughout.

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: South side

Environment: Moderate

Site Number: B-196

Width: 4.1 m

Height: 1 m

Length: 0 m

Count: 1

Total Quantity: 6 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 4   **Fair:** 1   **Poor:** 1

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Shallow spall. Light horizontal cracking with leachate staining.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-196	
Element Name:	Outlet Components	**Width:**	4.1	m
Element type:		**Height:**	1	m
Sub-element:		**Length:**	0	m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:	North Side	**Total Quantity:**	6	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	6	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 12:45 PM

Element Inspection

Element Group: Decks

Element Name: Wearing Surface

Element type:

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: B-196

Width: 6.6 m

Height: 0 m

Length: 4.1 m

Count: 1

Total Quantity: 27 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 27   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 12:46 PM

Element Inspection

Element Group: Embankments & Streams **Site Number:** B-196

Element Name: Embankments **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 4

Location: **Total Quantity:** 4 each

Environment: Moderate **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Recommend hazard signs.

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	B-196
Element Name:	Streams and Waterways	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:		**Count:**	1
Location:		**Total Quantity:**	1 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	1	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 12:45 PM

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground level)

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: B-196

Width: m

Height: m

Length: m

Count:

Total Quantity: each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

Element Inspection

Element Group: Retaining walls   **Site Number:** B-196

Element Name: Walls   **Width:** 0.2 m

Element type: I Type   **Height:** 0.4 m

Sub-element: **Length:** 4.1 m

Material: Steel   **Count:** 2

Location: **Total Quantity:** 4 sqm

Environment: Severe   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Light corrosion throughout.

OSIM Biennial Inspection Report

West Grey

Site Number:

N-171

Concession 14, Lot 20

2024 Jul 30 03:10 PM

East Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Concession 14, Lot 20	**Site Number:**	N-171
District:	Concession 14	**Road Name:**	Concession Rd 14
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	200
Structure Type:	CSP (arch)	**Overall Struct. Width:**	12 m
Number of Spans:	1	**Roadway Width:**	6.2 m
Direction of Structure:	East-West	**Total Deck Length:**	3.5 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.088885	**Span (s):**	3.5 m
Longitude:	-80.910053	**Total Deck Area:**	42 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	30-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74

Next Inspection:	30-Jul-26		
Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	2012	**Contract Number When Built:**	
Latest Biennial Inspection:	September 6, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	74.5	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Minor deformations throughout.

Description: Barrel: View from east.

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location: Over Barrel

Environment: Severe

Site Number: N-171

Width: 6.2 m

Height: m

Length: 3.5 m

Count:

Total Quantity: 22 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 22   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 03:10 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-171
Element Name:	Inlet Components	**Width:**	3.5 m
Element type:		**Height:**	1.4 m
Sub-element:		**Length:**	m
Material:	Corrugated Steel	**Count:**	1
Location:		**Total Quantity:**	1 sqm
Environment:	Moderate	**Not inspected:**	☐
Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 1 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

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Element Inspection

Element Group:	Culverts	**Site Number:**	N-171	
Element Name:	Outlet Components	**Width:**	3.5	m
Element type:		**Height:**	1.4	m
Sub-element:		**Length:**		m
Material:	Corrugated Steel	**Count:**	1	
Location:		**Total Quantity:**	1	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	N-171
Element Name:	Barrels	**Width:**	3.5 m
Element type:		**Height:**	1.4 m
Sub-element:		**Length:**	12 m
Material:	Corrugated Steel	**Count:**	1
Location:		**Total Quantity:**	132 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 130   **Fair:** 2   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Minor deformations throughout.

Element Group: Embankments and Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-171

Width: m

Height: m

Length: m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 03:10 PM

Element Group: Embankments and Streams   **Site Number:** N-171

Element Name: Streams & waterways   **Width:**   m

Element type: **Height:**   m

Sub-element: **Length:**   m

Material: **Count:** 1

Location: **Total Quantity:** 1

Environment: **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity:

General Comments:

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-171

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

Element Inspection

Element Group: Barriers

Element Name: Railing systems

Element type: Flexi beam with steel posts

Sub-element:

Material: Steel

Location:

Environment: Severe

Site Number: N-171

Width: 0 m

Height: 0 m

Length: 3.5 m

Count: 2

Total Quantity: 7 m

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (m):

Exec: 0 **Good:** 7 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 03:10 PM

OSIM Biennial Inspection Report

West Grey

Baptist Church Rd, Concession 8 Culvert

2024 Jun 12 03:22 PM

North Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Baptist Church Rd. Concession 8 Culvert	**Site Number:**	G-126
District:		**Road Name:**	Baptist Church Rd
County:	Grey County	**Owner:**	
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	CSP (arch)	**Overall Struct. Width:**	16 m
Number of Spans:	2	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	3.6 m

GPS Coordinates (Degrees)

General	**Latitude:** 44.261224	**Span (s):**	3.6 m
	Longitude: -80.735543	**Total Deck Area:**	58 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	12-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	25
Special Notes:	Culvert is in excellent condition showing no signs of strucutral distress.

Overall Inspection Summary

BCI: 100   **Next Inspection:** 12-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1980	**Contract Number When Built:**	
Latest Biennial Inspection:	March 24, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	100	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: South barrel: View from west.

Description: North barrel: View from east.

Description: South barrel: View from east.

2024 Jun 12 03:24 PM

Element Group: Culverts

Element Name: Barrels

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: G-126

Width: 1.8 m

Height: 0.95 m

Length: 16 m

Count: 2

Total Quantity: 96 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 96   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: West Side

Environment: Moderate

Site Number: G-126

Width: 1.8 m

Height: 0.95 m

Length: 0 m

Count: 2

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 03:24 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	G-126
Element Name:	Outlet Components	**Width:**	1.8 m
Element type:		**Height:**	0.95 m
Sub-element:		**Length:**	0 m
Material:	Corrugated Steel	**Count:**	2
Location:	East Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 2   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	G-126	
Element Name:	Streams and Waterways	**Width:**	0	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	0	m
Material:		**Count:**	1	
Location:		**Total Quantity:**	1	each
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Group: Embankments & Streams   **Site Number:** G-126

Element Name: Embankments   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 4

Location: **Total Quantity:** 4 each

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 4   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Element Group:	Decks	**Site Number:**	G-126	
Element Name:	Wearing surface	**Width:**	6.6	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	3.6	m
Material:	Gravel	**Count:**	1	
Location:		**Total Quantity:**	24	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	24	**Good:**	0	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 12 03:22 PM

OSIM Biennial Inspection Report

West Grey

5th Sideroad NDR Lot 5 Culvert

2024 Jun 10 10:01 AM

North Approach

Burgess Engineering Inc

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	5th Sideroad NDR Lot 5 Culvert	**Site Number:**	B-115
District:		**Road Name:**	5th Sideroad NDR
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	150
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	17.6 m
Number of Spans:	1	**Roadway Width:**	6.8 m
Direction of Structure:	North-South	**Total Deck Length:**	5.35 m

GPS Coordinates (Degrees)

General

Latitude:	44.197291	**Span (s):**	4.2 m
Longitude:	-81.017880	**Total Deck Area:**	94 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	10-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	10
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74

Next Inspection: 10-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1970	**Contract Number When Built:**	
Latest Biennial Inspection:	March 22, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from west.

Description: Barrel: Medium longitudinal crack with leachate staining and stalactite (1/2).

Description: Barrel: Medium longitudinal crack with leachate staining and stalactite (2/2).

Description: Inlet: Medium horizontal crack.

Description: S&W: Heavy flow at time of inspection causing stream to be wider than culvert.

2024 Jun 10 09:59 AM

Element Inspection

Element Group: Culverts

Element Name: Barrels

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: B-115

Width: 4.2 m

Height: 1.2 m

Length: 17.6 m

Count: 1

Total Quantity: 116 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 115   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Medium longitudinal crack with leachate staining and stalactite mid barrel.

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: East Side

Environment: Moderate

Site Number: B-115

Width: 5.35 m

Height: 1.2 m

Length: 0 m

Count: 1

Total Quantity: 3 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Medium horizontal crack.

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: West Side

Environment: Moderate

Site Number: B-115

Width: 5.35 m

Height: 1.2 m

Length: 0 m

Count: 1

Total Quantity: 3 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 3   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 10 09:52 AM

Element Group: Decks

Element Name: Wearing Surface

Element type:

Sub-element:

Material: Asphalt

Location:

Environment: Severe

Site Number: B-115

Width: 6.8 m

Height: 0 m

Length: 5.35 m

Count: 1

Total Quantity: 36 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 36 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 10 10:00 AM

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	B-115
Element Name:	Embankments	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:		**Count:**	4
Location:		**Total Quantity:**	4 each
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	4	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 10:00 AM

Element Inspection

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-115

Width: ___ m

Height: ___ m

Length: ___ m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Heavy flow at time of inspection causing stream to be wider than culvert. Heavy sedemant build up causing difficult to inspect thouroughly.

2024 Jun 10 09:59 AM

Element Inspection

Element Group:	Foundations	**Site Number:**	B-115
Element Name:	Foundation (below ground level)	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:	Cast-in-place Concrete	**Count:**	2
Location:		**Total Quantity:**	2 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

10th Sideroad NDR Lot 10-11 Culvert

2024 Jun 13 10:27 AM

North Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	10th Sideroad NDR Lot 10-11 Culvert	**Site Number:**	B-120
District:		**Road Name:**	10th Sideroad
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	50
Structure Type:	CSP (arch)	**Overall Struct. Width:**	18 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	2.4 m

GPS Coordinates (Degrees)

General	**Latitude:**	44.282322	**Span (s):** 2.4 m
	Longitude:	-81.016020	**Total Deck Area:** 43 sq.m
			Current Load Limit: 0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	High water level at time of inspection. Culvert appears to be in good condition, maintained true shape.

Overall Inspection Summary

BCI: 75

Next Inspection: 13-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1981	**Contract Number When Built:**	
Latest Biennial Inspection:	March 22, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Improper splice bolt pattern, no cracking noted.

Description: Barrel: Light corrosion at waterline.

Description: North barrel: View from west.

Description: North barrel: View from east.

Description: South barrel: View from east.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-120
Element Name:	Barrels	**Width:**	2.4 m
Element type:		**Height:**	1.7 m
Sub-element:		**Length:**	18 m
Material:	Corrugated Steel	**Count:**	2
Location:		**Total Quantity:**	226 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	226	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Improper splice bolt pattern, no cracking noted. Light corrosion at waterline.

Element Inspection

Element Group: Culverts   **Site Number:** B-120

Element Name: Inlet Components   **Width:** 2.4 m

Element type: **Height:** 1.7 m

Sub-element: **Length:** 0 m

Material: Corrugated Steel   **Count:** 2

Location: East Side   **Total Quantity:** 2 sqm

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Element Inspection

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: West Side

Environment: Moderate

Site Number: B-120

Width: 2.4 m

Height: 1.7 m

Length: 0 m

Count: 2

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 10:18 AM

Element Group:	Decks	**Site Number:**	B-120	
Element Name:	Wearing surface	**Width:**	6.5	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	2.4	m
Material:	Gravel	**Count:**	1	
Location:		**Total Quantity:**	16	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 16   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 10:27 AM

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-120

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 10:25 AM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-120

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

OSIM Biennial Inspection Report

West Grey

3rd Sideroad WGR, Lot 7/8

2024 Jun 13 01:33 PM

West Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	3rd Sideroad WGR, Lot 7/8	**Site Number:**	B-198
District:		**Road Name:**	3rd Sideroad WGR
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	6.7 m
Number of Spans:	1	**Roadway Width:**	6.1 m
Direction of Structure:	East-West	**Total Deck Length:**	8.5 m

GPS Coordinates (Degrees)

General

Latitude:	44.295568	**Span (s):**	4.4 m
Longitude:	-80.857768	**Total Deck Area:**	57 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 73

Next Inspection: 13-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:		**Contract Number When Built:**	
Latest Biennial Inspection:	March 27, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	73	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from south.

Description: Outlet: Medium to wide crack.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-198
Element Name:	Barrels	**Width:**	4.4 m
Element type:		**Height:**	2.1 m
Sub-element:		**Length:**	6.7 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:		**Total Quantity:**	58 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 58   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 01:31 PM

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: North Side

Environment: Moderate

Site Number: B-198

Width: 8.5 m

Height: 2.1 m

Length: 0 m

Count: 1

Total Quantity: 9 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 8   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group: Culverts **Site Number:** B-198

Element Name: Outlet Components **Width:** 8.5 m

Element type: **Height:** 2.1 m

Sub-element: **Length:** 0 m

Material: Cast-in-place Concrete **Count:** 1

Location: South Side **Total Quantity:** 5 sqm

Environment: Moderate **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0 **Good:** 3 **Fair:** 1 **Poor:** 1

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Medium to wide crack.

Element Inspection

Element Group: Decks

Element Name: Wearing Surface

Element type:

Sub-element:

Material: Gravel

Location:

Environment: Severe

Site Number: B-198

Width: 6.1 m

Height: 0 m

Length: 8.5 m

Count: 1

Total Quantity: 52 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 40   **Fair:** 10   **Poor:** 2

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 01:33 PM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-198

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Steep embankments.

2024 Jun 13 01:33 PM

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-198

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Stream dry at time of inspection.

Element Inspection

Element Group:	Foundations	**Site Number:**	B-198
Element Name:	Foundation (below ground level)	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:	Cast-in-place Concrete	**Count:**	
Location:		**Total Quantity:**	each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

Site Number:

N-190

Helena St. Culvert, Helena St., Ayton

2024 Jul 31 11:14 AM

South Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Helena St. Culvert, Helena St., Ayton	**Site Number:**	N-190
District:	Helena St., Ayton	**Road Name:**	Helena St
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	150
Structure Type:	CSP (arch)	**Overall Struct. Width:**	15 m
Number of Spans:	1	**Roadway Width:**	6.5 m
Direction of Structure:	North-South	**Total Deck Length:**	4 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.052257	**Span (s):**	4 m
Longitude:	-80.922771	**Total Deck Area:**	60 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	31-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	21
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 31-Jul-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:	0	**Contract Number When Built:**	
Latest Biennial Inspection:	September 6, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	75.2	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from east.

Description: Barrel: Minor deformations in barrel.

Element Inspection

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Asphalt

Location: Over Barrel

Environment: Severe

Site Number: N-190

Width: 6.5 m

Height: m

Length: 4 m

Count:

Total Quantity: 26 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 26   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 11:13 AM

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: N-190

Width: 4 m

Height: 1.3 m

Length: m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 11:14 AM

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: N-190

Width: 4 m

Height: 1.3 m

Length: m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group: Culverts
Element Name: Barrels
Element type:
Sub-element:
Material: Corrugated Steel
Location:
Environment: Benign

Site Number: N-190
Width: 4 m
Height: 1.3 m
Length: 15 m
Count: 1
Total Quantity: 188 sqm
Not inspected: ☐

Perform. deficiencies: None
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (sqm):
Exec: 0   **Good:** 188   **Fair:** 0   **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity:

Unit Cost:
Estimated Cost:

General Comments:
Minor deformations in barrel.

Element Group: Embankments and Streams   **Site Number:** N-190

Element Name: Embankments   **Width:** ___ m

Element type: ___   **Height:** ___ m

Sub-element: ___   **Length:** ___ m

Material: ___   **Count:** 4

Location: ___   **Total Quantity:** 4 each

Environment: ___   **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:** ___

Maint needs: ___   **Maint. Time Period:** ___

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: ___   **Unit Cost:** ___

Rehab time period: ___   **Estimated Cost:** ___

Quantity: ___

General Comments:

2024 Jul 31 11:13 AM

Element Group: Embankments and Streams

Element Name: Streams & waterways

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-190

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-190

Width: _____ m

Height: _____ m

Length: _____ m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

Sideroad 25, Conc. 10, Lot 25/26

2024 Jul 31 11:22 AM

South Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Sideroad 25, Conc. 10, Lot 25/26	**Site Number:**	N-187
District:	Sideroad 25, Conc. 10	**Road Name:**	Side Rd 25
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	150
Structure Type:	CSP (arch)	**Overall Struct. Width:**	18 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	4 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.062571	**Span (s):**	3.3 m
Longitude:	-80.878421	**Total Deck Area:**	72 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	31-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 31-Jul-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	0	**Contract Number When Built:**	
Latest Biennial Inspection:	September 7, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Light corrosion along waterline.

Description: Barrel: View from west.

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location: Over Barrel

Environment: Severe

Site Number: N-187

Width: 6.6 m

Height: m

Length: 4 m

Count:

Total Quantity: 26 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 26 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 11:22 AM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-187
Element Name:	Inlet Components	**Width:**	m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	m
Material:	Corrugated Steel	**Count:**	1
Location:	West	**Total Quantity:**	1 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

2024 Jul 31 11:22 AM

Element Inspection

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: East

Environment: Moderate

Site Number: N-187

Width: m

Height: 0 m

Length: m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 11:21 AM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-187
Element Name:	Barrels	**Width:**	3.3 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	18 m
Material:	Corrugated Steel	**Count:**	1
Location:		**Total Quantity:**	195 sqm
Environment:	Benign	**Not inspected:**	☐
Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 195 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Light corrosion along waterline.

Element Group: Embankments and Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-187

Width: m

Height: m

Length: m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 11:22 AM

Element Inspection

Element Group: Embankments and Streams   **Site Number:** N-187

Element Name: Streams & waterways   **Width:**   m

Element type: **Height:**   m

Sub-element: **Length:**   m

Material: **Count:** 1

Location: **Total Quantity:** 1

Environment: **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity:

General Comments:

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-187

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

Varney Road Culvert, Concession 2, Lot 74

2024 Jul 30 01:45 PM

West Approach

Inventory Data

Structure Name:	Varney Road Culvert, Concession 2, Lot 7	**Site Number:**	N-072
District:	Varney Rd., Concession 2, Lot 74	**Road Name:**	Varney Rd
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	200
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	13.1 m
Number of Spans:	1	**Roadway Width:**	6.8 m
Direction of Structure:	North-South	**Total Deck Length:**	6.8 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.13621	
Longitude:	-80.813256	

Span (s):	6.3 m
Total Deck Area:	89 sq.m
Current Load Limit:	0

Inspection Data

Date of Inspection:	30-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Rain
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 73

Next Inspection:	30-Jul-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1970	**Contract Number When Built:**	
Latest Biennial Inspection:	September 15, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	73.2	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Wearing surface: Severe alligator cracking throughout.

Description: Barrel: View from south.

Element Inspection

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: West

Environment: Moderate

Site Number: N-072

Width: 6.8 m

Height: 1.4 m

Length: 0 m

Count: 0

Total Quantity: 4 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Decks	**Site Number:**	N-072
Element Name:	Wearing surface	**Width:**	6.8 m
Element type:		**Height:**	m
Sub-element:		**Length:**	6.8 m
Material:	Asphalt	**Count:**	
Location:		**Total Quantity:**	46 sqm
Environment:	Severe	**Not inspected:**	☐
Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 0   **Fair:** 0   **Poor:** 46

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Severe alligator cracking throughout. Road should be resurfaced.

2024 Jul 30 01:45 PM

Element Group: Embankments and Streams

Element Name: Streams & waterways

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-072

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Embankments and Streams	**Site Number:**	N-072
Element Name:	Embankments	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:		**Count:**	4
Location:		**Total Quantity:**	4 each
Environment:		**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group: Culverts
Element Name: Barrels
Element type:
Sub-element:
Material: Cast-in-place Concrete
Location:
Environment: Benign

Site Number: N-072
Width: 6.8 m
Height: 1.4 m
Length: 13.1 m
Count: 0
Total Quantity: 126 sqm
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (sqm):
Exec: 0 **Good:** 126 **Fair:** 0 **Poor:** 0

Rehab Needs:
Rehab time period: None Recommended
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: East

Environment: Moderate

Site Number: N-072

Width: 6.8 m

Height: 1.4 m

Length: 0 m

Count: 0

Total Quantity: 4 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 01:44 PM

OSIM Biennial Inspection Report

West Grey

5th Sideroad NDR Lot 5-6 Culvert

2024 Jun 13 10:11 AM

South Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	5th Sideroad NDR Lot 5-6 Culvert	**Site Number:**	B-121
District:		**Road Name:**	5th Sideroad
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	75
Structure Type:	CSP (arch)	**Overall Struct. Width:**	19 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	3.8 m
		Span (s):	3.8 m

GPS Coordinates (Degrees)

General

Latitude:	44.267873	**Total Deck Area:**	72 sq.m
Longitude:	-81.037891	**Current Load Limit:**	0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74   **Next Inspection:** 13-Jun-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:	1979	**Contract Number When Built:**	
Latest Biennial Inspection:	March 22, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from east.

Description: Barrel: Improper splice bolt pattern, no cracking noted.

Description: Barrel: Light to medium rust along waterline.

Description: Barrel: Minor sag in mid barrel.

Element Inspection

Element Group: Culverts   **Site Number:** B-121

Element Name: Barrels   **Width:** 3.8 m

Element type: **Height:** 2.7 m

Sub-element: **Length:** 19 m

Material: Corrugated Steel   **Count:** 1

Location: **Total Quantity:** 161 sqm

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 158   **Fair:** 3   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Improper splice bolt pattern, no cracking noted. Light to medium rust along waterline. Minor sag in mid barrel.

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: East side

Environment: Moderate

Site Number: B-121

Width: 3.8 m

Height: 2.7 m

Length: 0 m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 10:09 AM

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location: West Side

Environment: Moderate

Site Number: B-121

Width: 3.8 m

Height: 2.7 m

Length: 0 m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 10:06 AM

Element Inspection

Element Group:	Decks	**Site Number:**	B-121	
Element Name:	Wearing surface	**Width:**	6.6	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	3.8	m
Material:	Gravel	**Count:**	1	
Location:		**Total Quantity:**	25	sqm
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 25   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jun 13 10:10 AM

Element Inspection

Element Group:	Embankments & Streams	**Site Number:**	B-121
Element Name:	Streams and Waterways	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	0 m
Material:		**Count:**	1
Location:		**Total Quantity:**	1 each
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	1	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 13 10:09 AM

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-121

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Steep embankments recommend protection.

OSIM Biennial Inspection Report

West Grey

Concession 14, Lot 27

West Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Concession 14, Lot 27	**Site Number:**	N-172
District:	Concession 14	**Road Name:**	Concession Rd 14
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	150
Structure Type:	CSP (arch)	**Overall Struct. Width:**	10 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	4.4 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.092654	
Longitude:	-80.878195	

Span (s):	4.4 m
Total Deck Area:	44 sq.m
Current Load Limit:	0

Inspection Data

Date of Inspection:	31-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75

Next Inspection:	31-Jul-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1979	**Contract Number When Built:**	
Latest Biennial Inspection:	September 6, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Improper splice bolt pattern, no signs of cracking.

Description: Barrel: Light corossion along waterline.

Description: Barrel: View from north.

Element Inspection

Element Group:	Decks	**Site Number:**	N-172
Element Name:	Wearing surface	**Width:**	6.6 m
Element type:		**Height:**	m
Sub-element:		**Length:**	4.4 m
Material:	Gravel	**Count:**	
Location:	Over Barrel	**Total Quantity:**	29 sqm
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 29 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	N-172
Element Name:	Inlet Components	**Width:**	4.4 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	m
Material:	Corrugated Steel	**Count:**	1
Location:		**Total Quantity:**	1 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

2024 Jul 31 12:14 PM

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: N-172

Width: 4.4 m

Height: 0 m

Length: m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 12:15 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-172	
Element Name:	Barrels	**Width:**	4.4	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	10	m
Material:	Corrugated Steel	**Count:**	1	
Location:		**Total Quantity:**	138	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 138 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Improper splice bolt pattern, no signs of cracking. Light corossion along waterline.

Element Group: Embankments and Streams
Element Name: Embankments
Element type:
Sub-element:
Material:
Location:
Environment:

Site Number: N-172
Width: m
Height: m
Length: m
Count: 4
Total Quantity: 4 each
Not inspected: ☐

Perform. deficiencies: None
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (each):
Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity:

Unit Cost:
Estimated Cost:

General Comments:

Element Group: Embankments and Streams

Element Name: Streams & waterways

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-172

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Inspection

Element Group:	Foundations	**Site Number:**	N-172	
Element Name:	Foundation (below ground)	**Width:**		m
Element type:		**Height:**		m
Sub-element:		**Length:**		m
Material:		**Count:**	1	
Location:		**Total Quantity:**	1	
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data:

Exec:	0	**Good:**	1	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

Sideroad 20, Conc. 15, Lot 20/21

2024 Jul 30 03:00 PM

North Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Sideroad 20, Conc. 15, Lot 20/21	**Site Number:**	N-179
District:	Sideroad 20	**Road Name:**	Side Rd 20
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	100
Structure Type:	CSP (arch)	**Overall Struct. Width:**	18 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	North-South	**Total Deck Length:**	3 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.099807	**Span (s):**	3 m
Longitude:	-80.91354	**Total Deck Area:**	54 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	30-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Rain
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress. Minor top deformations in barrel.

Overall Inspection Summary

BCI: 73   **Next Inspection:** 30-Jul-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1985	**Contract Number When Built:**	
Latest Biennial Inspection:	September 6, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	73.4	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Minor deformations.

Description: Barrel: View from west.

Element Group:	Decks	**Site Number:**	N-179
Element Name:	Wearing surface	**Width:**	6.6 m
Element type:		**Height:**	m
Sub-element:		**Length:**	3 m
Material:	Gravel	**Count:**	
Location:	Over Barrel	**Total Quantity:**	20 sqm
Environment:	Severe	**Not inspected:**	☐
Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 20   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Corrugated Steel

Location:

Environment: Moderate

Site Number: N-179

Width: 3 m

Height: 0 m

Length: m

Count: 1

Total Quantity: 1 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0 **Good:** 1 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Recommend remove vegetation.

Element Inspection

Element Group:	Culverts	**Site Number:**	N-179
Element Name:	Outlet Components	**Width:**	3　m
Element type:		**Height:**	0　m
Sub-element:		**Length:**	m
Material:	Corrugated Steel	**Count:**	1
Location:		**Total Quantity:**	1　sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0　　**Good:** 1　　**Fair:** 0　　**Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	N-179	
Element Name:	Barrels	**Width:**	3	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	18	m
Material:	Corrugated Steel	**Count:**	1	
Location:		**Total Quantity:**	170	sqm
Environment:	Benign	**Not inspected:**	☐	
Perform. deficiencies:	None	**Maintenance Type:**		
Maint needs:		**Maint. Time Period:**		

Condition Data (sqm):

Exec: 0   **Good:** 162   **Fair:** 8   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Minor deformations.

Element Inspection

Element Group:	Embankments and Streams	**Site Number:**	N-179
Element Name:	Embankments	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:		**Count:**	4
Location:		**Total Quantity:**	4 each
Environment:		**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (each):

Exec:	0	**Good:**	4	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Group: Embankments and Streams **Site Number:** N-179

Element Name: Streams & waterways **Width:** ____ m

Element type: ____ **Height:** ____ m

Sub-element: ____ **Length:** ____ m

Material: ____ **Count:** 1

Location: ____ **Total Quantity:** 1

Environment: ____ **Not inspected:** ☐

Perform. deficiencies: None **Maintenance Type:** ____

Maint needs: ____ **Maint. Time Period:** ____

Condition Data:

Exec: 0 **Good:** 1 **Fair:** 0 **Poor:** 0

Rehab Needs: ____ **Unit Cost:** ____

Rehab time period: ____ **Estimated Cost:** ____

Quantity: ____

General Comments:

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-179

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

3rd Sideroad WGR Lot 8 Concession 3 WGR Culvert

2024 Jun 13 12:26 PM

East Approach

Burgess Engineering Inc

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	3rd Sideroad WGR Lot 8 Concession 3 W	**Site Number:**	B-113
District:		**Road Name:**	Sideroad 3 WGR
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	50
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	11.6 m
Number of Spans:	1	**Roadway Width:**	7 m
Direction of Structure:	East-West	**Total Deck Length:**	5.4 m

GPS Coordinates (Degrees)

General

Latitude:	44.291843	**Span (s):**	4.9 m
Longitude:	-80.892863	**Total Deck Area:**	63 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	13-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	20
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74   **Next Inspection:** 13-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1960	**Contract Number When Built:**	
Latest Biennial Inspection:	March 27, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from north.

Description: Inlet: Medium cracking at construction joints, possible sign of inward rotation.

Description: Outlet: Medium cracking and shallow delaminations at construction joints.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-113
Element Name:	Barrels	**Width:**	4.9 m
Element type:		**Height:**	1.5 m
Sub-element:		**Length:**	11.6 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:		**Total Quantity:**	92 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	92	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: North Side

Environment: Moderate

Site Number: B-113

Width: 4.9 m

Height: 1.5 m

Length: 0 m

Count: 1

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 1   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Medium cracking at construction joints, possible sign of inward rotation. No signs of movement since last inspection, continue to monitor for further movement.

2024 Jun 13 12:25 PM

Element Inspection

Element Group: Culverts
Element Name: Outlet Components
Element type:
Sub-element:
Material: Cast-in-place Concrete
Location: South Side
Environment: Moderate

Site Number: B-113
Width: 4.9 m
Height: 1.5 m
Length: 0 m
Count: 1
Total Quantity: 2 sqm
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (sqm):
Exec: 0   **Good:** 0   **Fair:** 2   **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

Medium cracking and shallow delaminations at construction joints, possible sign of inward rotation. No signs of movement since last inspection, continue to monitor for further movement.

Element Group: Embankments & Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment: Moderate

Site Number: B-113

Width: 0 m

Height: 0 m

Length: 0 m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0 **Good:** 4 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 12:26 PM

Element Group: Embankments & Streams

Element Name: Streams and Waterways

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-113

Width: 0 m

Height: 0 m

Length: 0 m

Count: 1

Total Quantity: 1 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 13 12:26 PM

Element Group: Foundations

Element Name: Foundation (below ground level)

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: B-113

Width: m

Height: m

Length: m

Count:

Total Quantity: each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: **Good:** 0 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

OSIM Biennial Inspection Report

West Grey

10th Sideroad, Conc. 5, Lot 10/11

2024 Jul 30 09:51 AM

South Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	10th Sideroad, Conc. 5, Lot 10/11	**Site Number:**	N-183
District:	10th Sideroad, Conc. 5 Lot 10/11	**Road Name:**	Side Rd 10
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	150
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	9 m
Number of Spans:	1	**Roadway Width:**	6.2 m
Direction of Structure:	North-South	**Total Deck Length:**	4 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.004448	**Span (s):**	3.5 m
Longitude:	-80.941749	**Total Deck Area:**	36 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	30-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress. Possible wall inward rotation, monitor.

Overall Inspection Summary

BCI: 73   **Next Inspection:** 30-Jul-26

Additional Investigation Required:	Monitor Further Movement	**Priority:**	Medium
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	0	**Contract Number When Built:**	
Latest Biennial Inspection:	September 6, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	73.4	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Inlet: Minor seperation on outside of construction joint, possible sign of slight wall rotation.

Description: Barrel: Shallow delamination throughout.

Description: Barrel: View from west.

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location: Over Barrel

Environment: Severe

Site Number: N-183

Width: 6.2 m

Height: m

Length: 4 m

Count:

Total Quantity: 25 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 25   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 09:50 AM

Element Inspection

Element Group: Culverts
Element Name: Inlet Components
Element type:
Sub-element:
Material: Cast-in-place Concrete
Location: East
Environment: Moderate

Site Number: N-183
Width: 3.5 m
Height: 1.4 m
Length: m
Count: 1
Total Quantity: 4 sqm
Not inspected: ☐

Perform. deficiencies: None
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (sqm):
Exec: 0 **Good:** 2 **Fair:** 2 **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity:

Unit Cost:
Estimated Cost:

General Comments:
Minor seperation on outside of construction joint, possible sign of slight wall rotation, continue to monitor.

2024 Jul 30 09:45 AM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-183
Element Name:	Outlet Components	**Width:**	3.5 m
Element type:		**Height:**	1.4 m
Sub-element:		**Length:**	m
Material:	Cast-in-place Concrete	**Count:**	1
Location:	West	**Total Quantity:**	4 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	N-183
Element Name:	Barrels	**Width:**	3.5 m
Element type:		**Height:**	1.4 m
Sub-element:		**Length:**	9 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:		**Total Quantity:**	57 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 56   **Fair:** 1   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Shallow delamination throughout.

2024 Jul 30 09:46 AM

Element Group: Embankments and Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-183

Width: m

Height: m

Length: m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments and Streams

Element Name: Streams & waterways

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-183

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 09:49 AM

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-183

Width: _____ m

Height: _____ m

Length: _____ m

Count: 2

Total Quantity: 2

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 1   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Cracking in top of walls indication of possible wall inward rotation.

OSIM Biennial Inspection Report

West Grey

Letter Breen Rd. Culvert, Letter Breen Road, Conc. 2, Lot 5

2024 Jul 31 10:26 AM

East Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Letter Breen Rd. Culvert, Letter Breen Roa	**Site Number:**	N-163
District:	Letter Breen Rd	**Road Name:**	Letterbreen Rd
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	CSP (arch)	**Overall Struct. Width:**	14 m
Number of Spans:	3	**Roadway Width:**	5.6 m
Direction of Structure:	East-West	**Total Deck Length:**	15 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.016426	**Span (s):**	2.8 m
Longitude:	-80.797838	**Total Deck Area:**	210 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	31-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	23
Special Notes:	Culvert is in fair to good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74   **Next Inspection:** 31-Jul-26

Additional Investigation Required:	**Priority:**
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	**Engineering Fee:**

Historical Data

Year Built:	1985	**Contract Number When Built:**	
Latest Biennial Inspection:	September 7, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	73.6	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: Light to medium corrosion in base region.

Description: Barrel: View from north.

Element Inspection

Element Group:	Culverts	**Site Number:**	N-163	
Element Name:	Outlet Components	**Width:**	0	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	0	m
Material:		**Count:**	3	
Location:	South	**Total Quantity:**	3	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	Routine
Maint needs:	Remove vegetation	**Maint. Time Period:**	2 Year

Condition Data (sqm):

Exec: 0   **Good:** 3   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Recommend removing vegetation.

Element Inspection

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material:

Location: North

Environment: Moderate

Site Number: N-163

Width: 0 m

Height: 0 m

Length: 0 m

Count: 3

Total Quantity: 3 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 3   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 10:25 AM

Element Group: Embankments & Streams   **Site Number:** N-163

Element Name: Streams and Waterways   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 1

Location: **Total Quantity:** 1 each

Environment: **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jul 31 10:25 AM

Element Inspection

Element Group: Embankments & Streams   **Site Number:** N-163

Element Name: Embankments   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 4

Location: **Total Quantity:** 4 each

Environment: **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	N-163
Element Name:	Barrels	**Width:**	2.8 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	14 m
Material:		**Count:**	3
Location:		**Total Quantity:**	250 sqm
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	240	**Fair:**	10	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

Only middle barrel functioning properly as other two barrels are filled with sedement. Light to medium corrosion in base region.

2024 Jul 31 10:23 AM

Element Group: Decks   **Site Number:** N-163

Element Name: Wearing surface   **Width:** 5.6 m

Element type: **Height:** 0 m

Sub-element: **Length:** 15 m

Material: Asphalt   **Count:** 0

Location: **Total Quantity:** 84 sqm

Environment: **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 84   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: None Recommended   **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jul 31 10:26 AM

OSIM Biennial Inspection Report

West Grey

Garafraxa Street

2024 Jul 30 01:19 PM

South Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Garafraxa Street	**Site Number:**	D-101
District:		**Road Name:**	HWY 6
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	4300
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	11.6 m
Number of Spans:	1	**Roadway Width:**	8 m
Direction of Structure:	North-South	**Total Deck Length:**	3 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.173217	**Span (s):**	1.2 m
		Total Deck Area:	35 sq.m
Longitude:	-80.817589	**Current Load Limit:**	0

Inspection Data

Date of Inspection: 30-Jul-24

Name of Inspector: Andrew Burgess, P.Eng. & Joel Ziegler CET

Equipment Used: Sounding hammer, measuring equipment, GPS

Weather Conditions: Rain

Temperature: 23

Special Notes: Culvert is in excellent condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: **100**   **Next Inspection:** 30-Jul-26

Additional Investigation Required: **Priority:**

Additional Investigation Cost:

Rehabilitation Needs:

Rehabilitation Timing:

Total Rehabilitation Budget Costings: **Engineering Fee:**

Historical Data

Year Built:	2021	**Contract Number When Built:**	
Latest Biennial Inspection:	September 15, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	100	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from east.

Element Group:	Decks	**Site Number:**	D-101
Element Name:	Wearing surface	**Width:**	7 m
Element type:		**Height:**	m
Sub-element:		**Length:**	1.25 m
Material:	Asphalt	**Count:**	
Location:	Over Barrel	**Total Quantity:**	9 sqm
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	9	**Good:**	0	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

2024 Jul 30 01:17 PM

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: East

Environment: Moderate

Site Number: D-101

Width: 1.2 m

Height: 0.6 m

Length: m

Count: 1

Total Quantity: 25 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 25   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 01:17 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	D-101	
Element Name:	Outlet Components	**Width:**	1.2	m
Element type:		**Height:**	0.6	m
Sub-element:		**Length:**		m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:	West	**Total Quantity:**	18	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	18	**Good:**	0	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group:	Culverts	**Site Number:**	D-101	
Element Name:	Barrels	**Width:**	1.2	m
Element type:		**Height:**	0.6	m
Sub-element:		**Length:**	11.6	m
Material:	Pre-cast Concrete	**Count:**	1	
Location:		**Total Quantity:**	28	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 28   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Group: Embankments and Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: D-101

Width: m

Height: m

Length: m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 4 **Good:** 0 **Fair:** 0 **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments and Streams   **Site Number:** D-101

Element Name: Streams & waterways   **Width:** ___ m

Element type: ___   **Height:** ___ m

Sub-element: ___   **Length:** ___ m

Material: ___   **Count:** 1

Location: ___   **Total Quantity:** 1

Environment: ___   **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:** ___

Maint needs: ___   **Maint. Time Period:** ___

Condition Data:

Exec: 1   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs: ___   **Unit Cost:** ___

Rehab time period: ___   **Estimated Cost:** ___

Quantity: ___

General Comments:

Element Inspection

Element Group: Foundations   **Site Number:** D-101

Element Name: Foundation (below ground)   **Width:** _____ m

Element type: _____   **Height:** _____ m

Sub-element: _____   **Length:** _____ m

Material: _____   **Count:** 2

Location: _____   **Total Quantity:** 2

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:** _____

Maint needs: _____   **Maint. Time Period:** _____

Condition Data:

Exec: _____   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs: _____   **Unit Cost:** _____

Rehab time period: _____   **Estimated Cost:** _____

Quantity: _____

General Comments:

No signs of settlement.

Element Group:	Sidewalks/ curbs	**Site Number:**	D-101	
Element Name:	Curbs	**Width:**	0	m
Element type:		**Height:**	0	m
Sub-element:		**Length:**	3	m
Material:	Cast-in-place Concrete	**Count:**	2	
Location:		**Total Quantity:**	6	m
Environment:	Severe	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**		
Maint needs:		**Maint. Time Period:**		

Condition Data (m):

Exec: 6   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jul 30 01:18 PM

Element Inspection

Element Group:	Barriers	**Site Number:**	D-101
Element Name:	Railing systems	**Width:**	0 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	3 m
Material:	Steel	**Count:**	2
Location:		**Total Quantity:**	6 m
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (m):

Exec: 6   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jul 30 01:18 PM

Element Inspection

Element Group:	Sidewalks/ curbs	**Site Number:**	D-101
Element Name:	Sidewalks	**Width:**	1.5 m
Element type:		**Height:**	0 m
Sub-element:		**Length:**	3 m
Material:	Cast-in-place Concrete	**Count:**	2
Location:		**Total Quantity:**	6
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data:

Exec:	6	**Good:**	0	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

OSIM Biennial Inspection Report

West Grey

Concession 4, Lot 10/11, Baptist Church Rd Culvert

2024 Jun 12 12:10 PM

North Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Concession 4, Lot 10/11, Baptist Church R	**Site Number:**	G-048
District:		**Road Name:**	Baptist Church Road
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	19 m
Number of Spans:	1	**Roadway Width:**	6.7 m
Direction of Structure:	North-South	**Total Deck Length:**	5.9 m

GPS Coordinates (Degrees)

General	**Latitude:**	44.222339	**Span (s):** 4.9 m
	Longitude:	-80.724974	**Total Deck Area:** 112 sq.m
			Current Load Limit: 0

Inspection Data

Date of Inspection:	12-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	21
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 12-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1967	**Contract Number When Built:**	
Latest Biennial Inspection:	March 24, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from west.

Description: Barrel: Light to medium vertical cracks with leachate staining.

Element Inspection

Element Group: Culverts

Element Name: Barrels

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: G-048

Width: 4.9 m

Height: 3.1 m

Length: 19 m

Count: 1

Total Quantity: 211 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 209   **Fair:** 2   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

Light to medium vertical cracks with leachate staining.

Element Inspection

Element Group: Culverts   **Site Number:** G-048

Element Name: Inlet Components   **Width:** 5.9 m

Element type: **Height:** 3.1 m

Sub-element: **Length:** 0 m

Material: Cast-in-place Concrete   **Count:** 1

Location: East Side   **Total Quantity:** 32 sqm

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (sqm):

Exec: 0   **Good:** 32   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

2024 Jun 12 12:03 PM

Element Inspection

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: West Side

Environment: Moderate

Site Number: G-048

Width: 5.9 m

Height: 3.1 m

Length: 0 m

Count: 1

Total Quantity: 6 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 6   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 12:09 PM

Element Inspection

Element Group: Decks

Element Name: Wearing Surface

Element type:

Sub-element:

Material: Asphalt

Location:

Environment: Severe

Site Number: G-048

Width: 6.7 m

Height: 0 m

Length: 5.9 m

Count: 1

Total Quantity: 40 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 40   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 12 12:10 PM

Element Group: Embankments & Streams   **Site Number:** G-048

Element Name: Embankments   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 4

Location: **Total Quantity:** 4 each

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Element Group: Embankments & Streams   **Site Number:** G-048

Element Name: Streams and Waterways   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 1

Location: **Total Quantity:** 1 each

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Element Inspection

Element Group: Foundations   **Site Number:** G-048

Element Name: Foundation (below ground level)   **Width:** ___ m

Element type: ___   **Height:** ___ m

Sub-element: ___   **Length:** ___ m

Material: ___   **Count:** ___

Location: ___   **Total Quantity:** ___ each

Environment: Benign   **Not inspected:** ☐

Perform. deficiencies: ___   **Maintenance Type:** ___

Maint needs: ___   **Maint. Time Period:** ___

Condition Data (each):

Exec: ___   **Good:** 0   **Fair:** 0   **Poor:** 0

Rehab Needs: ___   **Unit Cost:** ___

Rehab time period: ___   **Estimated Cost:** ___

Quantity: 0

General Comments:

No signs of stettlement.

OSIM Biennial Inspection Report

West Grey

Camp Creek Culvert, Normanby-Bentinck Townline, Conc.

2024 Jul 30 01:29 PM

West Approach

Burgess Engineering Inc

27-Aug-24

Inventory Data

Structure Name:	Camp Creek Culvert, Normanby-Bentinck	**Site Number:**	N-165
District:	Normanby-Bentinck TL, 0.7 km West of Hi	**Road Name:**	Normanby-Bentinck Townline
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	0
Structure Type:	Box Culvert Open Footing - Rigid	**Overall Struct. Width:**	19 m
Number of Spans:	1	**Roadway Width:**	6.5 m
Direction of Structure:	North-South	**Total Deck Length:**	6.8 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	44.14812	**Span (s):**	5 m
Longitude:	-80.823342	**Total Deck Area:**	129 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	30-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Rain
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 30-Jul-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:	1985	**Contract Number When Built:**	
Latest Biennial Inspection:	September 15, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from south.

Element Group: Decks

Element Name: Wearing surface

Element type:

Sub-element:

Material: Gravel

Location: Over Barrel

Environment: Severe

Site Number: N-165

Width: 6.5 m

Height: m

Length: 6.8 m

Count:

Total Quantity: 44 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 44   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 01:28 PM

Element Group: Culverts

Element Name: Inlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: North

Environment: Moderate

Site Number: N-165

Width: 5 m

Height: 0.8 m

Length: m

Count: 1

Total Quantity: 2 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 01:24 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-165	
Element Name:	Outlet Components	**Width:**	5	m
Element type:		**Height:**	0.8	m
Sub-element:		**Length:**		m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:	South	**Total Quantity:**	2	sqm
Environment:	Moderate	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	2	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

2024 Jul 30 01:27 PM

Element Inspection

Element Group:	Culverts	**Site Number:**	N-165	
Element Name:	Barrels	**Width:**	5	m
Element type:		**Height:**	0.8	m
Sub-element:		**Length:**	19	m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:		**Total Quantity:**	125	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**		
Maint needs:		**Maint. Time Period:**		

Condition Data (sqm):

Exec: 0   **Good:** 125   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

2024 Jul 30 01:24 PM

Element Inspection

Element Group: Embankments and Streams   **Site Number:** N-165

Element Name: Embankments   **Width:** ___ m

Element type: ___   **Height:** ___ m

Sub-element: ___   **Length:** ___ m

Material: ___   **Count:** 4

Location: ___   **Total Quantity:** 4 each

Environment: ___   **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:** ___

Maint needs: ___   **Maint. Time Period:** ___

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: ___   **Unit Cost:** ___

Rehab time period: ___   **Estimated Cost:** ___

Quantity: ___

General Comments:

Element Group: Embankments and Streams

Element Name: Streams & waterways

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-165

Width: m

Height: m

Length: m

Count: 1

Total Quantity: 1

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 30 01:27 PM

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: N-165

Width: m

Height: m

Length: m

Count: 2

Total Quantity: 2

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data:

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

Element Inspection

Element Group:	Barriers	**Site Number:**	N-165
Element Name:	Railing systems	**Width:**	0 m
Element type:	Post and Cable	**Height:**	0 m
Sub-element:		**Length:**	6.8 m
Material:	Hybrid	**Count:**	2
Location:		**Total Quantity:**	14 m
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (m):

Exec:	0	**Good:**	14	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:	None Recommended	**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jul 30 01:28 PM

OSIM Biennial Inspection Report

West Grey

Pfeffer Culvert, Concession 2, Lot 70/71

2024 Jul 31 09:54 AM

West Approach

Burgess Engineering Inc

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	Pfeffer Culvert, Concession 2, Lot 70/71	**Site Number:**	N-071
District:	Pfeffer, Road 71	**Road Name:**	Rd 71
County:	Grey County	**Owner:**	West Grey
Township:		**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	Box Culvert - Rigid	**Overall Struct. Width:**	24 m
Number of Spans:	1	**Roadway Width:**	7.3 m
Direction of Structure:	North-South	**Total Deck Length:**	5.3 m

GPS Coordinates (Degrees)

REVIEWED

Latitude:	43.981504	**Span (s):**	4.9 m
		Total Deck Area:	127 sq.m
Longitude:	-80.811391	**Current Load Limit:**	0

Inspection Data

Date of Inspection:	31-Jul-24
Name of Inspector:	Andrew Burgess, P.Eng. & Joel Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Sunny
Temperature:	23
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 75   **Next Inspection:** 31-Jul-26

Additional Investigation Required:	
Priority:	
Additional Investigation Cost:	
Rehabilitation Needs:	
Rehabilitation Timing:	
Total Rehabilitation Budget Costings:	
Engineering Fee:	

Historical Data

Year Built:	1977	**Contract Number When Built:**	
Latest Biennial Inspection:	September 7, 2022	**Latest Specialized Inspection:**	
Latest Structure Rating:	75	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from north.

Element Inspection

Element Group:	Decks	**Site Number:**	N-071
Element Name:	Wearing surface	**Width:**	7.3 m
Element type:		**Height:**	m
Sub-element:		**Length:**	5.3 m
Material:	Asphalt	**Count:**	
Location:	Over Barrel	**Total Quantity:**	39 sqm
Environment:	Severe	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 39 **Fair:** 0 **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Group:	Culverts		**Site Number:**	N-071	
Element Name:	Inlet Components		**Width:**	4.9	m
Element type:			**Height:**	2.65	m
Sub-element:			**Length:**		m
Material:	Cast-in-place Concrete		**Count:**	1	
Location:	South		**Total Quantity:**	5	sqm
Environment:	Moderate		**Not inspected:**	☐	

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	5	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

Element Inspection

Element Group: Culverts

Element Name: Outlet Components

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location: North

Environment: Moderate

Site Number: N-071

Width: 4.9 m

Height: 2.65 m

Length: m

Count: 1

Total Quantity: 5 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 5   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

2024 Jul 31 09:52 AM

Element Inspection

Element Group: Culverts

Element Name: Barrels

Element type:

Sub-element:

Material: Cast-in-place Concrete

Location:

Environment: Benign

Site Number: N-071

Width: 4.9 m

Height: 2.65 m

Length: 24 m

Count: 1

Total Quantity: 362 sqm

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 362   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments and Streams

Element Name: Embankments

Element type:

Sub-element:

Material:

Location:

Environment:

Site Number: N-071

Width: m

Height: m

Length: m

Count: 4

Total Quantity: 4 each

Not inspected: ☐

Perform. deficiencies: None

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity:

Unit Cost:

Estimated Cost:

General Comments:

Element Group: Embankments and Streams   **Site Number:** N-071

Element Name: Streams & waterways   **Width:** ___ m

Element type: ___   **Height:** ___ m

Sub-element: ___   **Length:** ___ m

Material: ___   **Count:** 1

Location: ___   **Total Quantity:** 1

Environment: ___   **Not inspected:** ☐

Perform. deficiencies: None   **Maintenance Type:** ___

Maint needs: ___   **Maint. Time Period:** ___

Condition Data:

Exec: 0   **Good:** 1   **Fair:** 0   **Poor:** 0

Rehab Needs: ___   **Unit Cost:** ___

Rehab time period: ___   **Estimated Cost:** ___

Quantity: ___

General Comments:

2024 Jul 31 09:53 AM

Element Inspection

Element Group:	Foundations	**Site Number:**	N-071
Element Name:	Foundation (below ground)	**Width:**	m
Element type:		**Height:**	m
Sub-element:		**Length:**	m
Material:		**Count:**	2
Location:		**Total Quantity:**	2
Environment:	Benign	**Not inspected:**	☐

Perform. deficiencies:	None	**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data:

Exec:	0	**Good:**	2	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:			

General Comments:

No signs of settlement.

Element Group: Barriers

Element Name: Railing systems

Element type: Flexi beam with timber posts

Sub-element:

Material:

Location:

Environment: Severe

Site Number: N-071

Width: 0 m

Height: 0 m

Length: 5.3 m

Count: 2

Total Quantity: 11 m

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (m):

Exec: 0   **Good:** 11   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period: None Recommended

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

OSIM Biennial Inspection Report

6Conc. 4 NDR, Lot 26

2024 Jun 10 11:23 AM

West Approach

Burgess Engineering Inc
27-Aug-24

Inventory Data

Structure Name:	6Conc. 4 NDR. Lot 26	**Site Number:**	B-195
District:		**Road Name:**	Concession 4 NDR
County:	Grey County	**Owner:**	West Grey
Township:	West Grey	**Skew:**	0
Bridge or Culvert:	Culvert	**AADT:**	250
Structure Type:	Box Culvert Open Footing - Simple	**Overall Struct. Width:**	14 m
Number of Spans:	1	**Roadway Width:**	6.6 m
Direction of Structure:	East-West	**Total Deck Length:**	3 m

GPS Coordinates (Degrees)

General	**Latitude:** 44.207934	**Span (s):**	2.4 m
	Longitude: -80.915086	**Total Deck Area:**	42 sq.m
		Current Load Limit:	0

Inspection Data

Date of Inspection:	10-Jun-24
Name of Inspector:	A. Burgess P.Eng. & J. Ziegler CET
Equipment Used:	Sounding hammer, measuring equipment, GPS
Weather Conditions:	Cloudy
Temperature:	12
Special Notes:	Culvert is in good condition, showing no signs of structural distress.

Overall Inspection Summary

BCI: 74   **Next Inspection:** 10-Jun-26

Additional Investigation Required:		**Priority:**	
Additional Investigation Cost:			
Rehabilitation Needs:			
Rehabilitation Timing:			
Total Rehabilitation Budget Costings:		**Engineering Fee:**	

Historical Data

Year Built:		**Contract Number When Built:**	
Latest Biennial Inspection:	March 23, 2023	**Latest Specialized Inspection:**	
Latest Structure Rating:	74	**Latest Structure Condition:**	
RehabHistory:			
Regional Priority Number:		**Programmed Work Year:**	
NatureOfProgramWork:			

Description: Barrel: View from north.

Description: Barrel: Shallow spalling with exposed reinforcing.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-195	
Element Name:	Barrels	**Width:**	2.4	m
Element type:		**Height:**	1.3	m
Sub-element:		**Length:**	14	m
Material:	Cast-in-place Concrete	**Count:**	1	
Location:		**Total Quantity:**	70	sqm
Environment:	Benign	**Not inspected:**	☐	

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0 **Good:** 68 **Fair:** 1 **Poor:** 1

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

Shallow spalling with exposed reinforcing.

Element Inspection

Element Group:	Culverts	**Site Number:**	B-195
Element Name:	Inlet Components	**Width:**	2.4 m
Element type:		**Height:**	1.3 m
Sub-element:		**Length:**	0 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:	South Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 11:19 AM

Element Inspection

Element Group:	Culverts	**Site Number:**	B-195
Element Name:	Outlet Components	**Width:**	2.4 m
Element type:		**Height:**	1.3 m
Sub-element:		**Length:**	0 m
Material:	Cast-in-place Concrete	**Count:**	1
Location:	North Side	**Total Quantity:**	2 sqm
Environment:	Moderate	**Not inspected:**	☐

Perform. deficiencies:		**Maintenance Type:**	
Maint needs:		**Maint. Time Period:**	

Condition Data (sqm):

Exec:	0	**Good:**	2	**Fair:**	0	**Poor:**	0

Rehab Needs:		**Unit Cost:**	
Rehab time period:		**Estimated Cost:**	
Quantity:	0		

General Comments:

2024 Jun 10 11:21 AM

Element Group: Decks

Element Name: Wearing Surface

Element type:

Sub-element:

Material: Gravel

Location:

Environment: Severe

Site Number: B-195

Width: 6.6 m

Height: 0 m

Length: 3 m

Count: 1

Total Quantity: 20 sqm

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (sqm):

Exec: 0   **Good:** 20   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

2024 Jun 10 11:22 AM

Element Inspection

Element Group: Embankments & Streams   **Site Number:** B-195

Element Name: Embankments   **Width:** 0 m

Element type: **Height:** 0 m

Sub-element: **Length:** 0 m

Material: **Count:** 4

Location: **Total Quantity:** 4 each

Environment: Moderate   **Not inspected:** ☐

Perform. deficiencies: **Maintenance Type:**

Maint needs: **Maint. Time Period:**

Condition Data (each):

Exec: 0   **Good:** 4   **Fair:** 0   **Poor:** 0

Rehab Needs: **Unit Cost:**

Rehab time period: **Estimated Cost:**

Quantity: 0

General Comments:

Steep embankments.

Element Group: Embankments & Streams
Element Name: Streams and Waterways
Element type:
Sub-element:
Material:
Location:
Environment: Benign

Site Number: B-195
Width: 0 m
Height: 0 m
Length: 0 m
Count: 1
Total Quantity: 1 each
Not inspected: ☐

Perform. deficiencies:
Maint needs:

Maintenance Type:
Maint. Time Period:

Condition Data (each):
Exec: 0 **Good:** 1 **Fair:** 0 **Poor:** 0

Rehab Needs:
Rehab time period:
Quantity: 0

Unit Cost:
Estimated Cost:

General Comments:

2024 Jun 10 11:21 AM

Element Inspection

Element Group: Foundations

Element Name: Foundation (below ground level)

Element type:

Sub-element:

Material:

Location:

Environment: Benign

Site Number: B-195

Width: _____ m

Height: _____ m

Length: _____ m

Count: 2

Total Quantity: 2 each

Not inspected: ☐

Perform. deficiencies:

Maint needs:

Maintenance Type:

Maint. Time Period:

Condition Data (each):

Exec: 0   **Good:** 2   **Fair:** 0   **Poor:** 0

Rehab Needs:

Rehab time period:

Quantity: 0

Unit Cost:

Estimated Cost:

General Comments:

No signs of settlement.

2024 Bridge Condition Index (BCI)

BCI	Years Left	Site #	Structure Name	Road Name	Structure Type	Deck Area (m²)	Status
28.3	0	N-189	+Sideroad 25, Conc. 13, Lot 26	Side Rd 25	Box Culvert Open Footing - Simple	32	Closed
44.3	0	G-038	Concession 2 & 3N, Lot 6	Northline Road	Concrete Arch	87	Closed
48.7	0	G-033	Concession 9, Lot 9, Traverston Bridge	Traverston Road	Through Truss w/ Concrete Deck	209	Closed
51.4	0	B-020	Concession 2 & 3, Kennedy Bridge	Concession 2 NDR	Pony Truss w/ Concrete Deck	139	Closed
57.8	0	B-025	Hudson Bridge, Concession 3 SDR, Lot 21, 10th Sideroad SDR	Normanby-Bentinck Townline	Pony Truss w/ Timber Deck	153	Closed
57.8	0	N-051	Concession 17 & 18, Lot 15 Bridge	Concession 18	Pony Truss w/ Timber Deck	128	Closed
63.2	0	N-055	Hampden Bridge, Concession 17, Lot 20/21	Side Rd 20	Pony Truss w/ Timber Deck	136	Closed
67.4	0	N-070	Concession 2, Lot 74	Concession Rd 2 WGR	Pony Truss w/ Timber Deck	190	Closed
36.5	0	EG-001	Stonehill Road Culvert	Stonehill Road	CSP (round)	8	Open
46.8	1	N-184	Sideroad 25, Conc. 8, Lot 25/26	Side Rd 25	Box Culvert Open Footing - Simple	33	Open
50.1	1	B-003	Concession 6 & 7, Lot 18 Bridge	Concession 6	Concrete Rigid Frame	113	Open
51.2	1	G-044	Concession 2-3N, Lot 32	N Line	Concrete Arch	102	Open
54.1	4	N-188	Sideroad 25, Conc. 12, Lot 25/26	Side Rd 25	Box Culvert Open Footing - Simple	26	Open
57.7	1	G-037	Concession 2 & 3, Lot 6	North Line	Concrete Rigid Frame	78	Open
61.8	2	G-132	Baseline, 0.3 km North of Grey Rd 4 Culvert	Baseline	CSP (arch)	58	Open
63.8	6	B-008	Concession 12, Lot 32 & 13, 3W Bridge	Baseline	Concrete Rigid Frame	61	Open
65.5	6	G-133	Southline Road, Concession 2 EGR, Lot 63-64	Southline	Box Culvert Open Footing - Simple	27	Open
66.9	10	B-196	Welbeck Rd Culvert	Welbeck Road	Box Culvert Open Footing - Simple	32	Open
67.4	8	N-185	Sideroad 25, Conc. 8, Lot 25/26	Side Rd 25	Box Culvert Open Footing - Simple	42	Open
67.4	9	B-001	Concession 12 & 13 NDR, Lot 3 Bridge	Concession 12	Concrete Rigid Frame	69	Open
67.5	12	G-040	Concession 4, Lot 12 & 13, Burkes Bridge	Concession 4	Pony Truss w/ Concrete Deck	107	Open
67.5	7	B-011	Concession 1W, Lot 3 & 4 Bridge	Sideroad 3 WGR	Concrete Rigid Frame	57	Open
68.5	2	N-061	Concession 13/14, Lot 30	Concession Rd 14	Pony Truss w/ Timber Deck	88	Open
68.7	12	B-009	Concession 3W, Lot 14 & 15 Bridge	Welbeck Road	Concrete Rigid Frame	95	Open
69.6	12	G-041	Concession 4, Burkes Overflow Bridge	Concession 4	Concrete Rigid Frame	70	Open
69.7	8	N-060	Concession 11/12, Lot 30	Concession Rd 12	Box Culvert Open Footing - Simple	49	Open
70.0	8	N-058	Concession 11/12, Lot 30	Concession Rd 12	Concrete T-Beam	75	Open
70.1	13	B-006	Concession 11, Lot 25 & 26 Bridge	Mulock Road	Concrete Rigid Frame	67	Open
71.1	22	B-021	Concession 2 & 3, Overflow Structure to Kennedy	Concession 2 NDR	Concrete Rigid Frame	91	Open
71.1	16	N-059	Concession 11/12, Lot 30	Concession Rd 12	Concrete T-Beam	68	Open
71.3	18	B-119	Concession 14 NDR Lot 3 Culvert	Concession 14 NDR	Box Culvert Open Footing - Simple	40	Open
71.7	11	B-007	Concession 12, Lot 30 & 31 Bridge	30th Sideroad NDR	Timber Deck w/ Steel Beams	54	Open
71.7	14	N-056	Concession 15/16, Lot 27	Concession Rd 16	Pony Truss w/ Timber Deck	127	Open
71.7	21	B-005	Concession 10 & 11, Lot 25 Bridge	Concession 10	Concrete Rigid Frame	61	Open

2024 Bridge Condition Index (BCI)

BCI	Years Left	Site #	Structure Name	Road Name	Structure Type	Deck Area (m²)	Status
72.0	28	B-026	Mulock Road Bridge, Concession 2 SDR, Lot 50/51, Mulock Road	Mulock Rd	Concrete Rigid Frame	106	Open
72.1	18	G-031	Cencession 2 &3E, Lot 28 Bridge	Concession 2	Concrete Rigid Frame	131	Open
72.1	18	B-004	Concession 8 & 9, NDR, Lot 18 Bridge	Concession 8	Concrete Rigid Frame	60	Open
72.1	18	B-104	Baseline Rd. at Sideroad 18 Culvert	Baseline Rd	CSP (arch)	96	Open
72.2	30	B-107	Concession 4 NDR Lot 3 Culvert	Concession 4	Box Culvert Open Footing - Rigid	54	Open
72.6	27	B-198	3rd Sideroad WGR, Lot 7/8	3rd Sideroad WGR	Box Culvert Open Footing - Simple	57	Open
72.7	28	B-027	Concession 3 SDR, Lot 57, Concession 2 SDR	Concession Rd 2 SDR	Concrete Rigid Frame	132	Open
72.8	32	N-054	Ford's Bridge, Concession 15/16, Lot 7	Concession Rd 16	Concrete Rigid Frame	359	Open
72.9	22	B-015	Concession 5, Sills (Overflow)	Mulock Road	Concrete Rigid Frame	82	Open
72.9	33	N-067	Concession 2/3, Lot 63	Concession Rd 2 WGR	Concrete Arch	57	Open
73.0	21	B-114	Old Bridge Rd South Culvert	Old Bridge Road	Box Culvert Open Footing - Simple	50	Open
73.0	18	G-046	Concession 2 & 3N, Lot 43, McQuarrie Bridge	NorthLine	Pony Truss w/ Concrete Deck	145	Open
73.0	21	B-013	Concession 3W, Jelinski Bridge	Baseline	Box Culvert Open Footing - Simple	58	Open
73.2	26	N-072	Varney Road Culvert, Concession 2, Lot 74	Varney Rd	Box Culvert Open Footing - Rigid	89	Open
73.4	26	N-179	Sideroad 20, Conc. 15, Lot 20/21	Side Rd 20	CSP (arch)	54	Open
73.4	22	G-035	Concession 2 & 3W, Lot 100, West Back Line Road	West Back Line	Concrete Arch	222	Open
73.4	22	N-183	10th Sideroad, Conc. 5, Lot 10/11	Side Rd 10	Box Culvert Open Footing - Simple	36	Open
73.5	23	B-195	6Conc. 4 NDR, Lot 26	Concession 4 NDR	Box Culvert Open Footing - Simple	42	Open
73.7	18	N-163	Letter Breen Rd. Culvert, Letter Breen Road, Conc. 2, Lot 55/56	Letterbreen Rd	CSP (arch)	210	Open
73.7	16	G-154	Traverston Road, 1.4 km S of Concession 12 Culvert	Traverston Road	CSP (arch)	62	Open
73.8	26	B-019	Concession 2 & 3, Lot 35 Bridge	Concession 2 NDR	Concrete Rigid Frame	121	Open
73.9	24	B-113	3rd Sideroad WGR Lot 8 Concession 3 WGR Culvert	Sideroad 3 WGR	Box Culvert Open Footing - Simple	63	Open
73.9	25	B-018	Concession 2 & 3W, Lot 42 Bridge	Concession 2 WGR	Concrete Rigid Frame	193	Open
74.0	21	G-039	Concession 4, Lot 13, Baptist Church Road Bridge	Baptist Church Road	Pony Truss w/ Concrete Deck	176	Open
74.0	56	N-064	Diepel Bridge, Concession 7, Lot 5/6	Side Rd 5	Concrete Rigid Frame	95	Open
74.1	14	B-017	Concession 4 & 5, Lot 29 Bridge	Concession 4	Through Truss w/ Concrete Deck	187	Open
74.2	20	B-105	Concession 4 NDR Lot 30 Culvert	Concession 4	CSP (arch)	185	Open
74.2	28	G-032	Concession 8 & 9, Lot 5 Bridge	Concession 8	Concrete Rigid Frame	133	Open
74.3	58	N-065	Riest Bridge, Concession 5/6, Lot 9	Concession Rd 6	Concrete Deck w/ Pre-stressed Beams	227	Open
74.4	24	B-121	5th Sideroad NDR Lot 5-6 Culvert	5th Sideroad	CSP (arch)	72	Open
74.4	41	G-047	Saugeen River Bridge, Concession 2-3N, Lot 47	N Line	Concrete Deck w/ Steel Beams	116	Open
74.4	27	B-115	5th Sideroad NDR Lot 5 Culvert	5th Sideroad NDR	Box Culvert Open Footing - Rigid	94	Open
74.4	20	B-118	Concession 14 NDR Lot 11 Culvert	Concession 14	CSP (arch)	38	Open
74.5	28	B-012	Concession 1W, Lot 6 & 7 Bridge	Welbeck Road	Concrete Rigid Frame	80	Open

2024 Bridge Condition Index (BCI)

BCI	Years Left	Site #	Structure Name	Road Name	Structure Type	Deck Area (m²)	Status
74.5	38	N-171	Concession 14, Lot 20	Concession Rd 14	CSP (arch)	42	Open
74.6	46	B-014	Concession 4 & 5, Roy Hopkins Bridge	Concession 4	Concrete Deck w/ Pre-stressed Beams	624	Open
74.6	53	N-069	Pfeffer Bridge, Concession 2, Lot 70/71	Rd 71	Concrete Deck w/ Pre-stressed Beams	471	Open
74.6	46	B-022	Concession 3, Bailey Bridge	Allan Park Road	Concrete Deck w/ Pre-stressed Beams	264	Open
74.7	38	N-063	Glasser Bridge, Concession 7/8, Lot 3	Concession Rd 8	Concrete Rigid Frame	164	Open
74.7	58	B-023	Herd Bridge, Concession 1 SDR, Lot 40/41	Allen Park Road	Concrete Rigid Frame	134	Open
74.7	28	G-048	Concession 4, Lot 10/11, Baptist Church Rd Culvert	Baptist Church Road	Box Culvert Open Footing - Simple	112	Open
74.8	30	G-148	Concession 6, West of Glenelg Rd 23 Culvert	Concession 6	Box Culvert Open Footing - Rigid	87	Open
74.8	58	N-062	Concession 13/14, Lot 30	Concession Rd 14	Concrete Rigid Frame	102	Open
74.8	29	B-010	Concession 2 & 3W, Long Swamp Bridge	Concession 2	Concrete Rigid Frame	82	Open
74.8	33	N-050	Concession 17/18, Lot 1	Concession Road 18 Extension	Concrete Deck w/ Steel Beams	198	Open
74.8	29	G-030	Concession 2 & 3E, Lot 3	Concession 2	Box Culvert Open Footing - Rigid	71	Open
74.9	58	N-052	Concession 2/3, Lot 5	Concession Rd 2 WGR	Concrete Rigid Frame	106	Open
74.9	53	N-068	Concession 3, Lot 63/64	63 Rd	Concrete Rigid Frame	120	Open
74.9	23	N-199	Culvert, Concession 12, Lot 26	Concession Rd 12	CSP (arch)	57	Open
74.9	46	B-016	Concession 5, Sills Bridge	Mulock Road	Concrete Deck w/ Pre-stressed Beams	171	Open
74.9	41	G-045	Concession 2 & 3N, Lot 33, Northline Rd Bridge	North Line	Concrete Deck w/ Steel Beams	105	Open
74.9	30	P-101	Durham Pedestrian Bridge	George St East	Timber Deck w/ Timber Beams	505	Open
74.9	56	G-043	Glenelg Centre Bridge, Concession 5, Lot 17	Consession Rd 4	Concrete Deck w/ Pre-stressed Beams	373	Open
75.0	33	N-066	Concession 5/6, Lot 19	Concession Rd 6	Concrete Rigid Frame	328	Open
75.0	46	B-002	Concession 4 & 5, Styx View Bridge	Concession 4	Concrete Deck w/ Pre-stressed Beams	249	Open
75.0	48	N-057	Kreller Bridge, Concession 11/12, Lot 9	Concession Rd 12	Concrete Deck w/ Pre-stressed Beams	485	Open
75.0	21	B-120	10th Sideroad NDR Lot 10-11 Culvert	10th Sideroad	CSP (arch)	43	Open
75.0	43	N-053	Concession 15/16, Lot 1	Concession Rd 12 E	Concrete Deck w/ Steel Beams	245	Open
75.0	53	N-071	Pfeffer Culvert, Concession 2, Lot 70/71	Rd 71	Box Culvert - Rigid	127	Open
75.0	48	N-165	Camp Creek Culvert, Normanby-Bentinck Townline, Conc. 1, Lot 1	Normanby-Bentinck Townline	Box Culvert Open Footing - Rigid	129	Open
75.0	26	N-172	Concession 14, Lot 27	Concession Rd 14	CSP (arch)	44	Open
75.0	36	N-178	Sideroad 20, Conc. 13, Lot 20/21	Side Rd 20	CSP (arch)	41	Open
75.0	18	N-187	Sideroad 25, Conc. 10, Lot 25/26	Side Rd 25	CSP (arch)	72	Open
75.0	63	P-102	Neustadt Pedestrian Bridge	Walking Trail	Pony Truss w/ Timber Deck	36	Open
75.2	48	N-190	Helena St. Culvert, Helena St., Ayton	Helena St	CSP (arch)	60	Open
86.5	50	D-001	Garafraxa Street Culvert, Durham	HWY 6	Concrete Rigid Frame	313	Open
98.4	71	G-197	Concession 8/9, Lot 10	Concession 8	CSP (round)	54	Open
99.5	66	G-126	Baptist Church Rd, Concession 8 Culvert	Baptist Church Rd	CSP (arch)	58	Open
99.6	46	B-112	Concession 2 WGR Lot 3 Culvert	Concession 2	CSP (arch)	43	Open

2024 Bridge Condition Index (BCI)

BCI	Years Left	Site #	Structure Name	Road Name	Structure Type	Deck Area (m^2)	Status
100.0	73	B-028	Concession 2 & 3W, Lantz Bridge	Concession 2 WGR	Timber Deck w/ Timber Beams	208	Open
100.0	73	D-101	Garafraxa Street	HWY 6	Box Culvert Open Footing - Rigid	35	Open

2024 Maintanence Needs

West Grey

Site #	Structure Name	Road Name	Element Name	Element Group	Needs Type	Maintenance Needs	Time Period (yrs)
B-001	Concession 12 & 13 NDR, Lot 3 Bridge	Concession 12	Approaches	Curbs	Routine	Bridge cleaning	2
			Decks	Drainage System	Structural	Install/extend drain pipes	2
			Abutments	Wingwalls	Routine	Bridge cleaning	2
B-004	Concession 8 & 9, NDR, Lot 18 Bridge	Concession 8	Decks	Drainage System	Structural	Install/extend drain pipes	1
B-005	Concession 10 & 11, Lot 25 Bridge	Concession 10	Decks	Drainage System	Structural	Install/extend drain pipes	2
B-006	Concession 11, Lot 25 & 26 Bridge	Mulock Road	Approaches	Wearing surface	Structural	Asphalt Repairs	1
			Decks	Wearing Surface	Structural	Asphalt Repairs	1
			Decks	Drainage system	Structural	Install/extend drain pipes	1
B-007	Concession 12, Lot 30 & 31 Bridge	30th Sideroad NDR	Accessories (Attachments and Signs)	Signs	Routine	Sign Repair	1
B-008	Concession 12, Lot 32 & 13, 3W Bridge	Baseline	Embankments & Streams	Embankments	Routine	Erosion control	1
B-010	Concession 2 & 3W, Long Swamp Bridge	Concession 2	Barriers	Barrier/Parapet Walls	Structural	Barrier/railing system repair	2
B-011	Concession 1W, Lot 3 & 4 Bridge	Sideroad 3 WGR	Barriers	Railing systems	Structural	Barrier/railing system repair	1
B-012	Concession 1W, Lot 6 & 7 Bridge	Welbeck Road	Decks	Wearing Surface	Structural	Asphalt Repairs	2
B-016	Concession 5, Sills Bridge	Mulock Road	Embankments & Streams	Embankments	Routine	Erosion control	2
B-017	Concession 4 & 5, Lot 29 Bridge	Concession 4	Barriers	Railing systems	Structural	Barrier/railing system repair	1
B-018	Concession 2 & 3W, Lot 42 Bridge	Concession 2 WGR	Barriers	Railing systems	Structural	Barrier/railing system repair	1
			Embankments & Streams	Embankments	Routine	Erosion control	2
B-019	Concession 2 & 3, Lot 35 Bridge	Concession 2 NDR	Decks	Wearing Surface	Routine	Bridge cleaning	1
B-021	Concession 2 & 3, Overflow Structure to Kennedy	Concession 2 NDR	Barriers	Railing Systems	Structural	Barrier/railing system repair	1
B-022	Concession 3, Bailey Bridge	Allan Park Road	Barriers	Railing Systems	Structural	Barrier/railing system repair	1
			Joints	Seals (strip)	Routine	Bridge cleaning	1
B-025	Hudson Bridge, Concession 3 SDR, Lot 21, 10th Sideroad SDR	Normanby-Bentinck Townline	Approaches	Railing system	Structural	Repair guide rail protection	1
			Decks	Wearing surface	Structural	Asphalt Repairs	1

West Grey

Site #	Structure Name	Road Name	Element Name	Element Group	Needs Type	Maintenance Needs	Time Period (yrs)
B-027	Concession 3 SDR, Lot 57, Concession 2 SDR	Concession Rd 2 SDR	Sidewalks/curbs	Curbs	Routine	Bridge cleaning	2
B-104	Baseline Rd. at Sideroad 18 Culvert	Baseline Rd	Barriers	Railing systems	Structural	Barrier/railing system repair	2
B-105	Concession 4 NDR Lot 30 Culvert	Concession 4	Barriers	Railing systems	Structural	Barrier/railing system repair	2
B-107	Concession 4 NDR Lot 3 Culvert	Concession 4	Barriers	Railing Systems	Structural	Barrier/railing system repair	1
B-107	Concession 4 NDR Lot 3 Culvert	Concession 4	Embankments & Streams	Embankments	Routine	Erosion control	2
B-114	Old Bridge Rd South Culvert	Old Bridge Road	Decks	Wearing Surface	Structural	Asphalt Repairs	2
B-119	Concession 14 NDR Lot 3 Culvert	Concession 14 NDR	Barriers	Railing Systems	Structural	Barrier/railing system repair	1
B-119	Concession 14 NDR Lot 3 Culvert	Concession 14 NDR	Barriers	Railing systems	Structural	Barrier/railing system repair	2
G-031	Cencession 2 &3E, Lot 28 Bridge	Concession 2	Barriers	Railing Systems	Structural	Barrier/railing system repair	1
G-032	Concession 8 & 9, Lot 5 Bridge	Concession 8	Barriers	Railing systems	Structural	Barrier/railing system repair	2
G-032	Concession 8 & 9, Lot 5 Bridge	Concession 8	Barriers	Railing Systems	Structural	Barrier/railing system repair	2
G-037	Concession 2 & 3, Lot 6	North Line	Sidewalks/ curbs	Curbs	Routine	Bridge cleaning	1
G-038	Concession 2 & 3N, Lot 6	Northline Road	Approaches	Wearing surface	Routine	Erosion control	1
G-038	Concession 2 & 3N, Lot 6	Northline Road	Embankments & Streams	Embankments	Routine	Erosion control	1
G-039	Concession 4, Lot 13, Baptist Church Road Bridge	Baptist Church Road	Barriers	Railing systems	Structural	Barrier/railing system repair	1
G-040	Concession 4, Lot 12 & 13, Burkes Bridge	Concession 4	Barriers	Hand railings	Structural	Hand rail repairs	2
G-040	Concession 4, Lot 12 & 13, Burkes Bridge	Concession 4	Beams/Main Longitudinal Elements	Floor beams (steel)	Structural	Structural steel repair	2
G-040	Concession 4, Lot 12 & 13, Burkes Bridge	Concession 4	Barriers	Railing systems	Structural	Barrier/railing system repair	2
G-040	Concession 4, Lot 12 & 13, Burkes Bridge	Concession 4	Joints	Seals (open)	Structural	Bridge Joint Repair	2
G-041	Concession 4, Burkes Overflow Bridge	Concession 4	Barriers	Railing systems	Structural	Barrier/railing system repair	1
G-043	Glenelg Centre Bridge, Concession 5, Lot 17	Consession Rd 4	Joints	Seals (strip)	Routine	Bridge cleaning	1
G-044	Concession 2-3N, Lot 32	N Line	Accessories	Signs	Routine	Sign Repair	1
G-046	Concession 2 & 3N, Lot 43, McQuarrie Bridge	NorthLine	Barriers	Railing systems	Structural	Barrier/railing system repair	1
G-046	Concession 2 & 3N, Lot 43, McQuarrie Bridge	NorthLine	Barriers	Railing systems	Structural	Barrier/railing system repair	1

2024 Maintanence Needs

West Grey

Site #	Structure Name	Road Name	Element Name	Element Group	Needs Type	Maintenance Needs	Time Period (yrs)
N-052	Concession 2/3, Lot 5	Concession Rd 2 WGR	Signs	Signs	Structural	Sign Repair	1
N-055	Hampden Bridge, Concession 17, Lot 20/21	Side Rd 20	Decks	Wearing surface	Structural	Asphalt Repairs	2
			Approaches	Wearing surface	Structural	Asphalt Repairs	2
N-056	Concession 15/16, Lot 27	Concession Rd 16	Beams/Main Longitudinal Elements	Verticals/diagonals	Structural	Structural steel repair	2
N-059	Concession 11/12, Lot 30	Concession Rd 12	Barriers	Railing system	Structural	Barrier/railing system repair	1
			Approaches	Railing system	Routine	Barrier/railing system repair	1
N-065	Riest Bridge, Concession 5/6, Lot 9	Concession Rd 6	Approaches	Wearing surface	Structural	Asphalt Repairs	2
			Approaches	Curbs	Routine	Bridge cleaning	2
N-067	Concession 2/3, Lot 63	Concession Rd 2 WGR	Embankments & Streams	Embankments	Routine	Erosion control	1
			Signs	Signs	Routine	Sign Repair	1
			Approaches	Railing systems	Structural	Barrier/railing system repair	1
N-068	Concession 3, Lot 63/64	63 Rd	Barriers	Railing system	Structural	Barrier/railing system repair	2
N-163	Letter Breen Rd. Culvert, Letter Breen Road, Conc. 2, Lot 55/56	Letterbreen Rd	Culverts	Outlet Components	Routine	Remove vegetation	2
N-188	Sideroad 25, Conc. 12, Lot 25/26	Side Rd 25	Embankments & Streams	Embankments	Routine	Erosion control	1

APPENDIX D

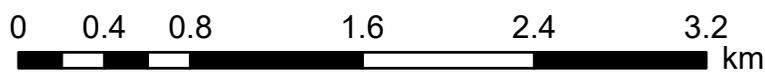## CHANGE IN EMERGENCY RESPONSE TIME MAPS
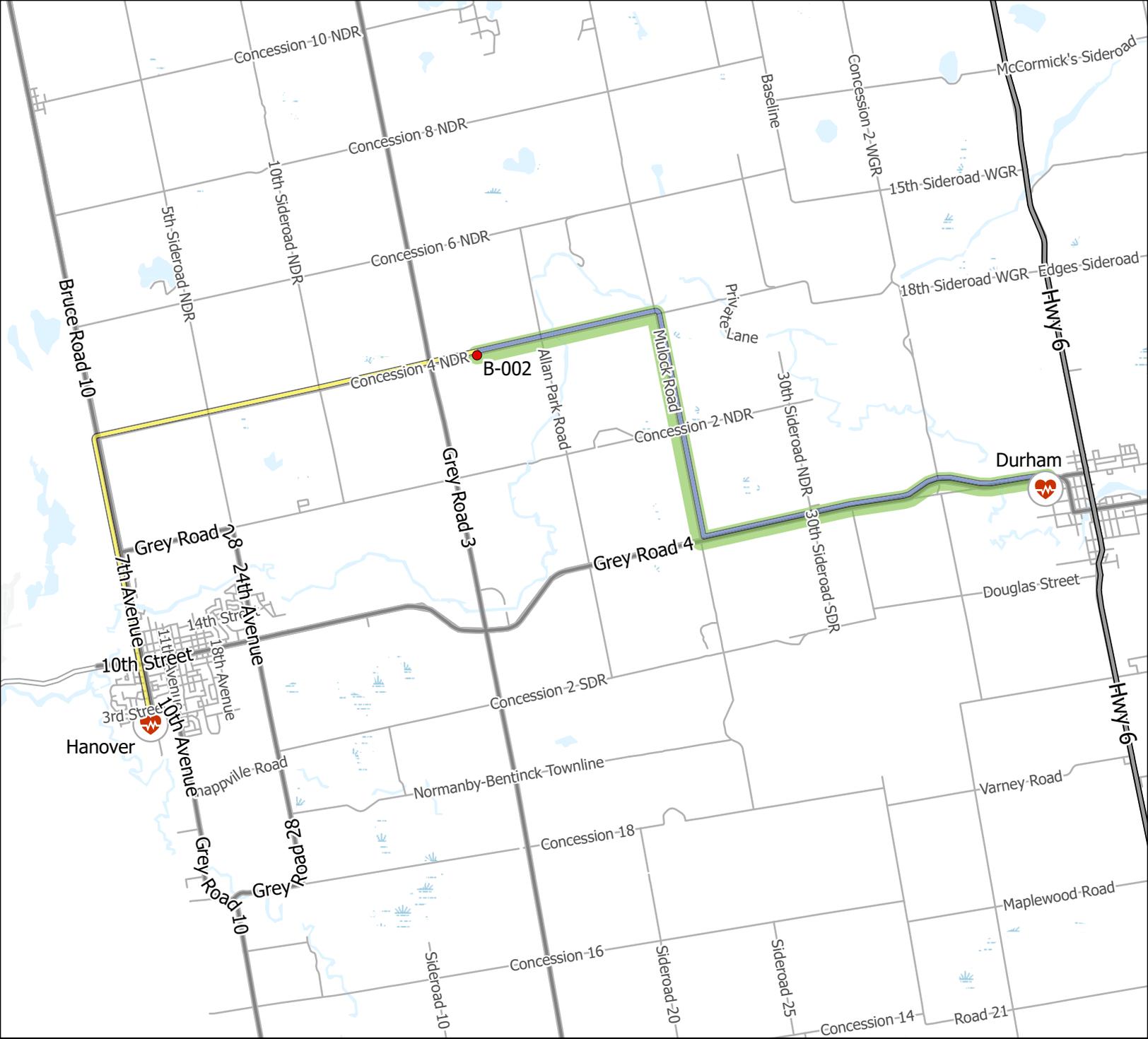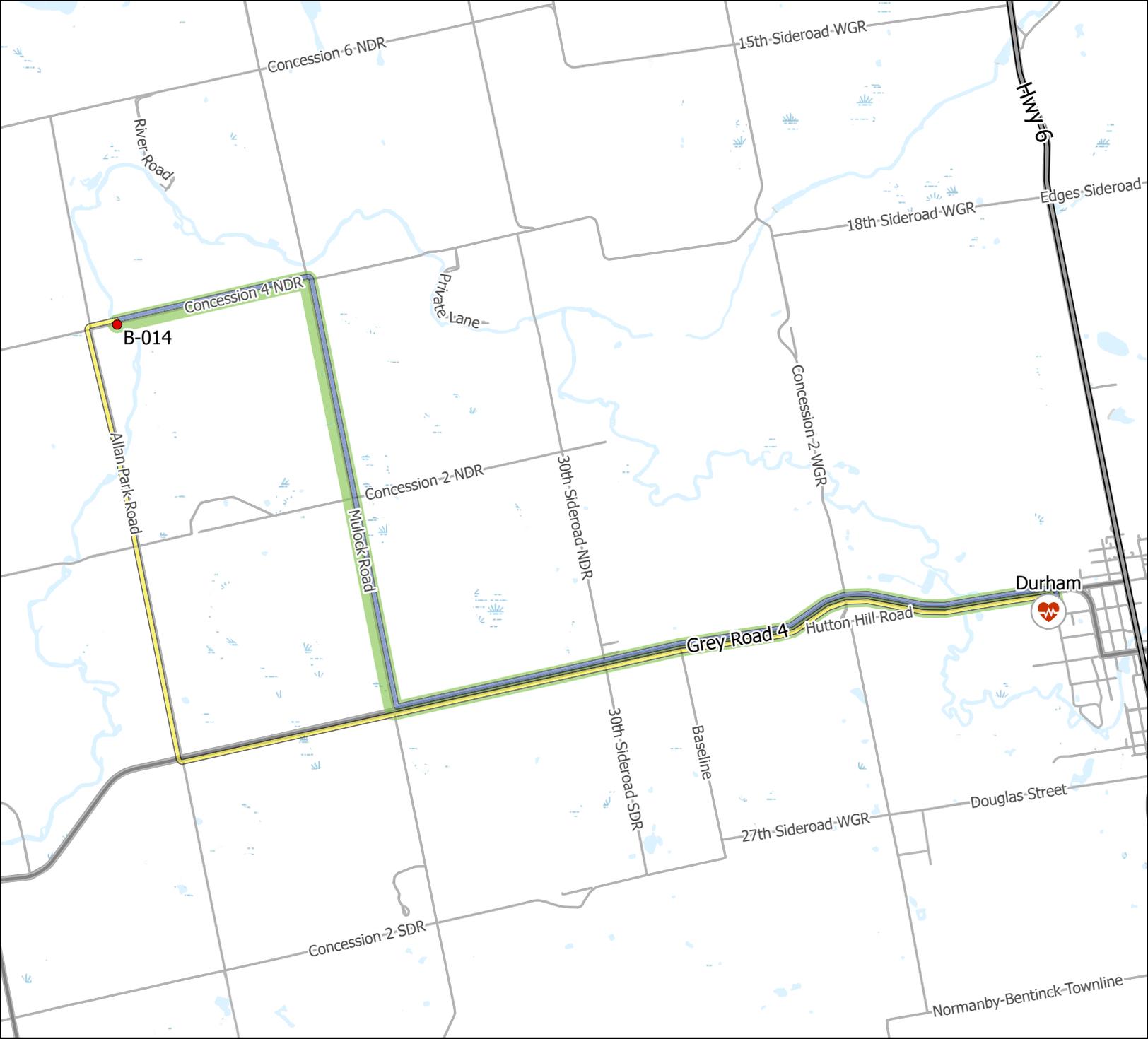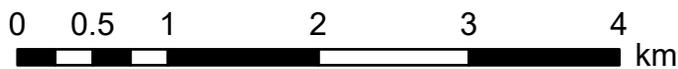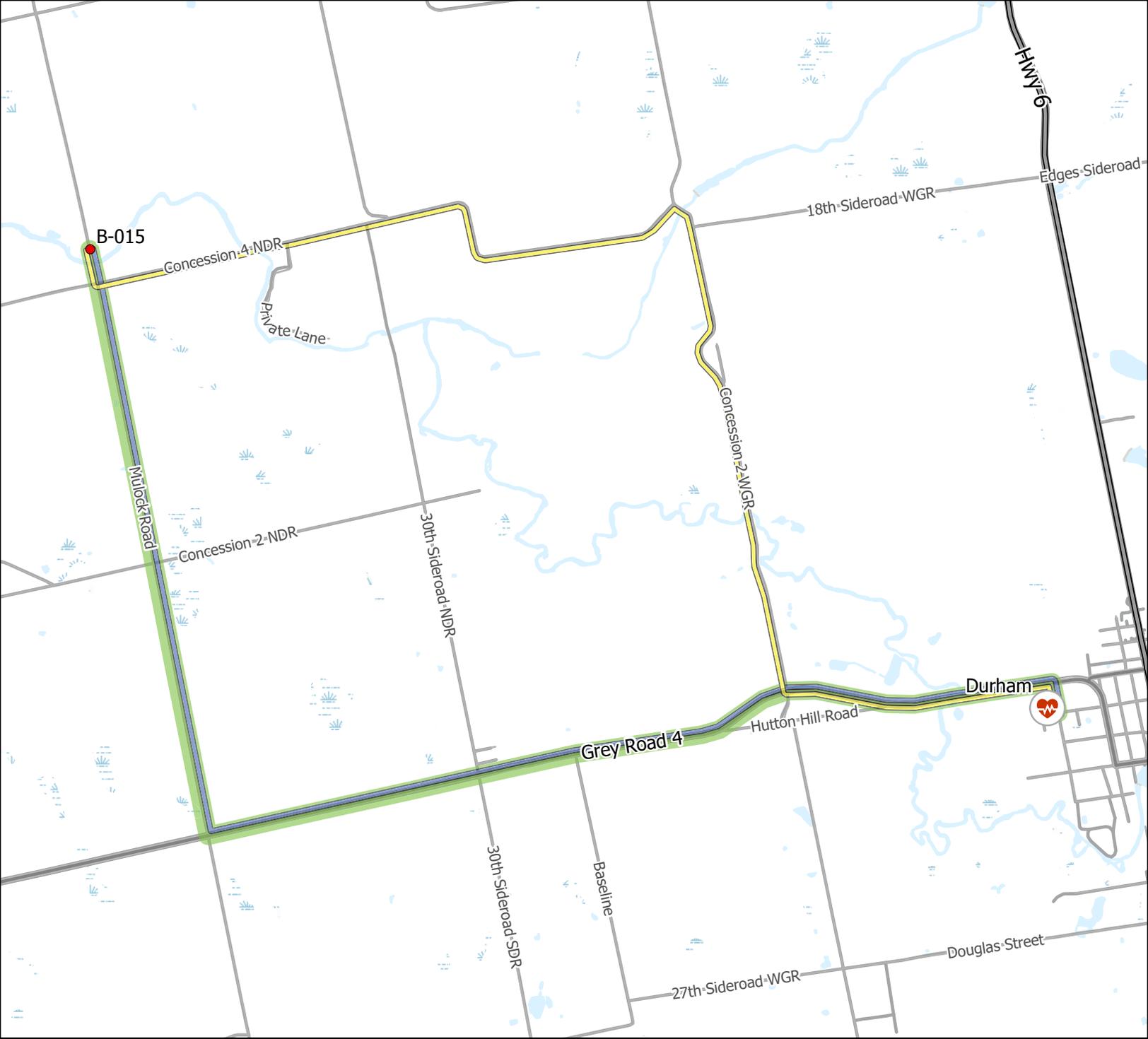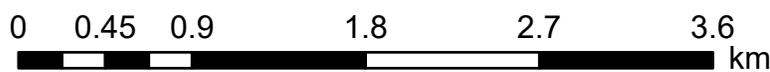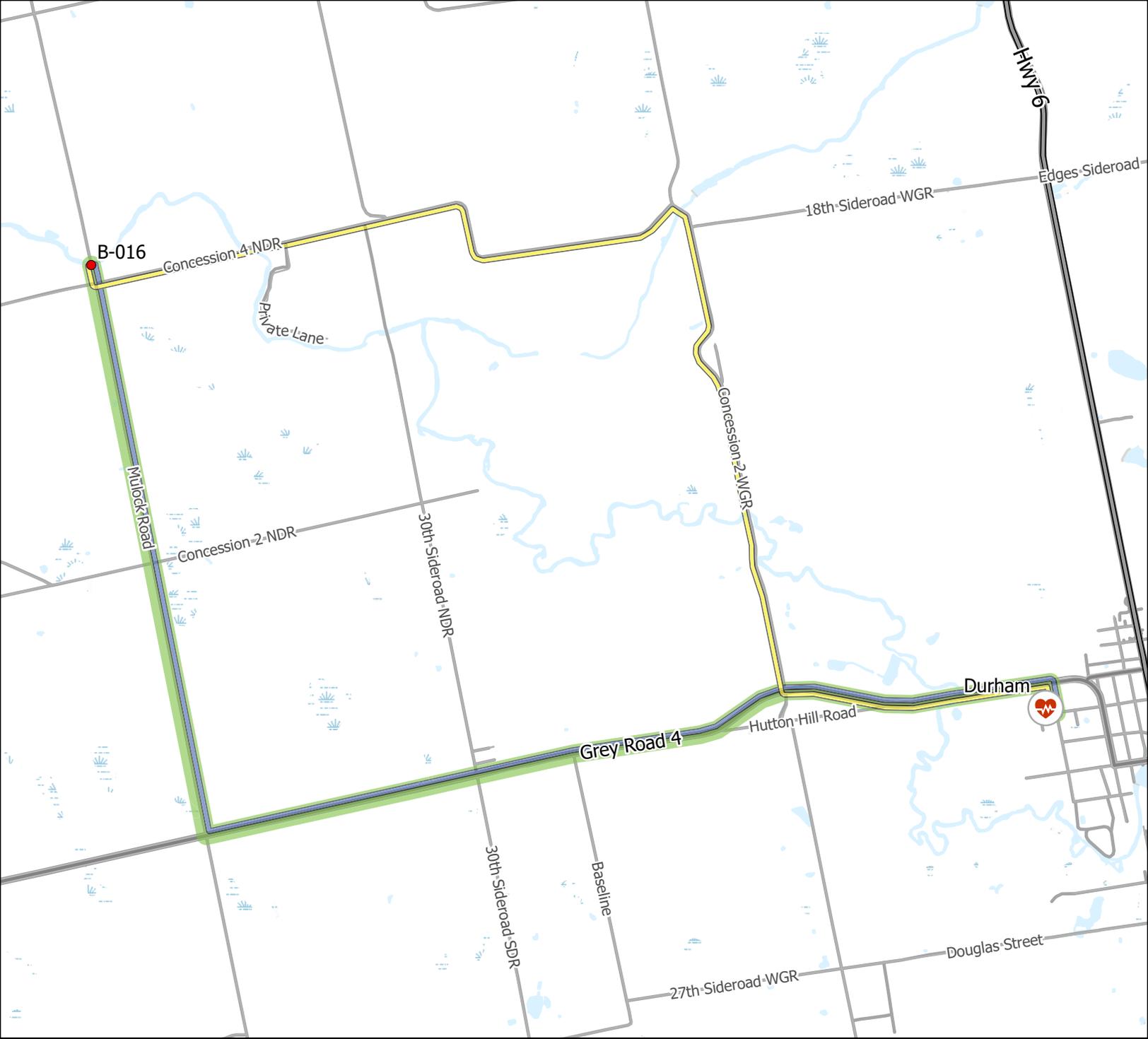
Structure: B-002

Travel Time Difference: 1.6 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-002 - Durham	11.2	14.1	N/W Barrier
B-002 - Durham	11.2	14.1	Original
B-002 - Hanover	12.8	12.2	S/E Barrier

0 1 2 4 6 8 km

N

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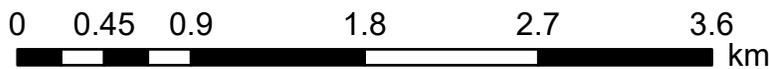Date: October 17, 2024
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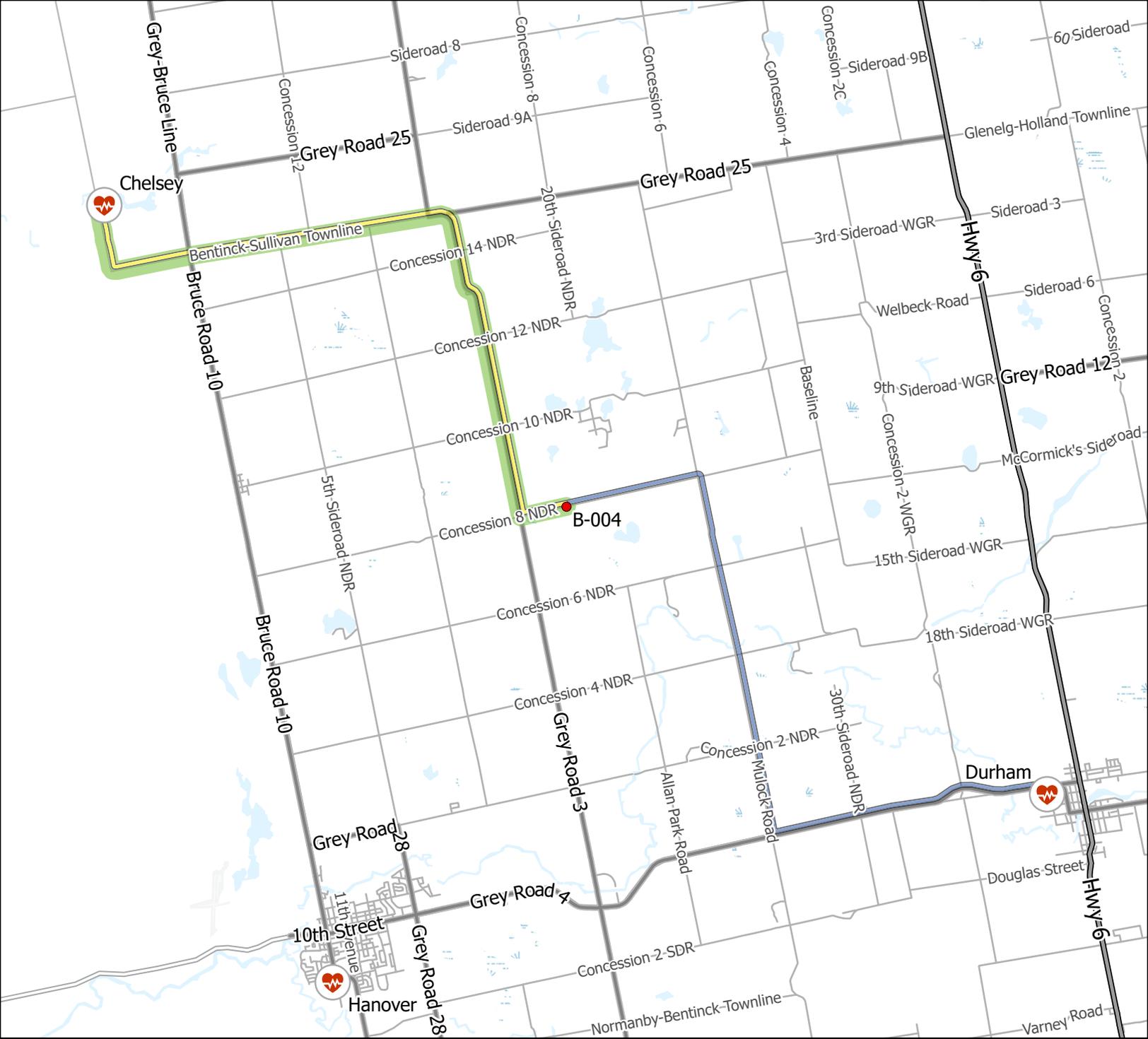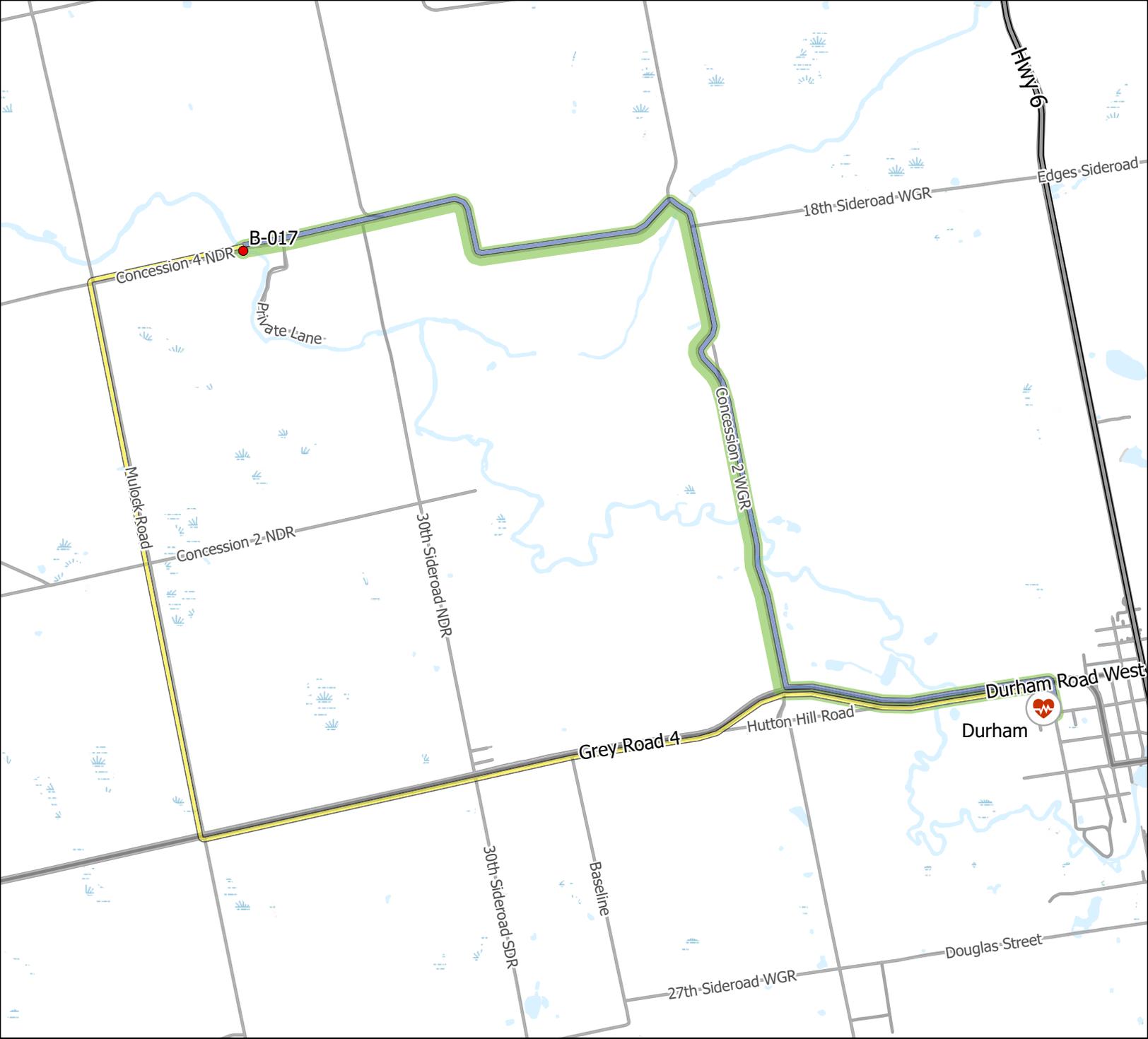
Structure: B-004

Travel Time Difference: 0.3 minutes

- ● Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-004 - Durham	14.8	17.9	N/W Barrier
B-004 - Chelsey	14.5	17.3	Original
B-004 - Chelsey	14.5	17.3	S/E Barrier

0   1.25   2.5   5   7.5   10
km

N

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Date: October 17, 2024
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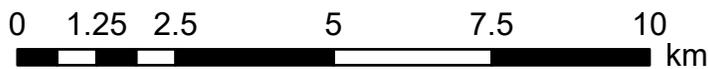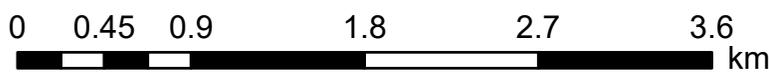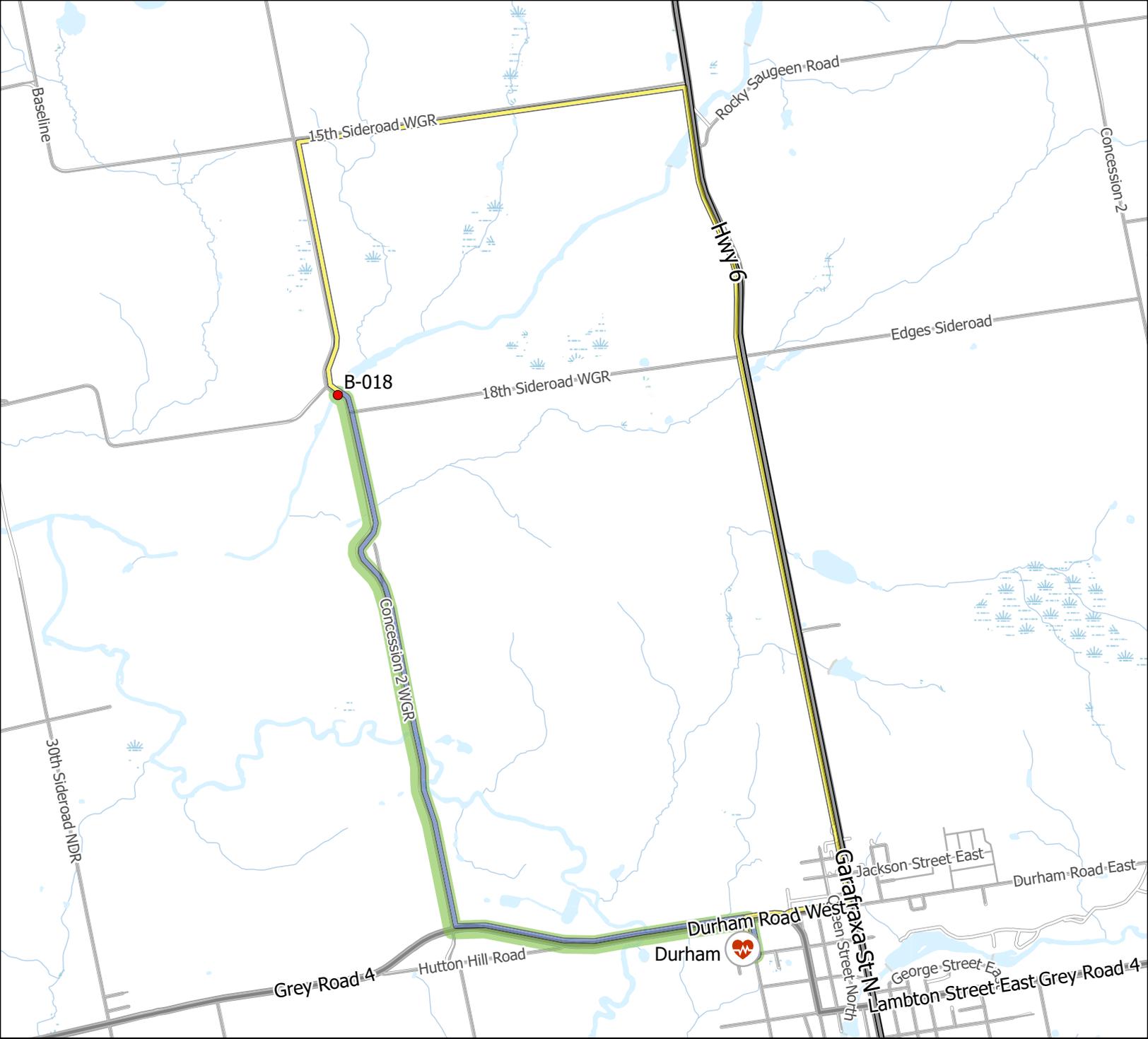
Structure: B-005

Travel Time Difference: 2.6 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-005 - Durham	13.7	17.1	N/W Barrier
B-005 - Durham	13.7	17.1	Original
B-005 - Chelsey	16.3	18.5	S/E Barrier

0 1.25 2.5 5 7.5 10 km

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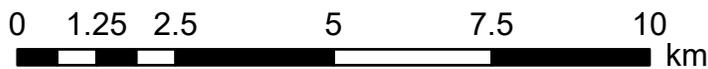
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Date: October 17, 2024
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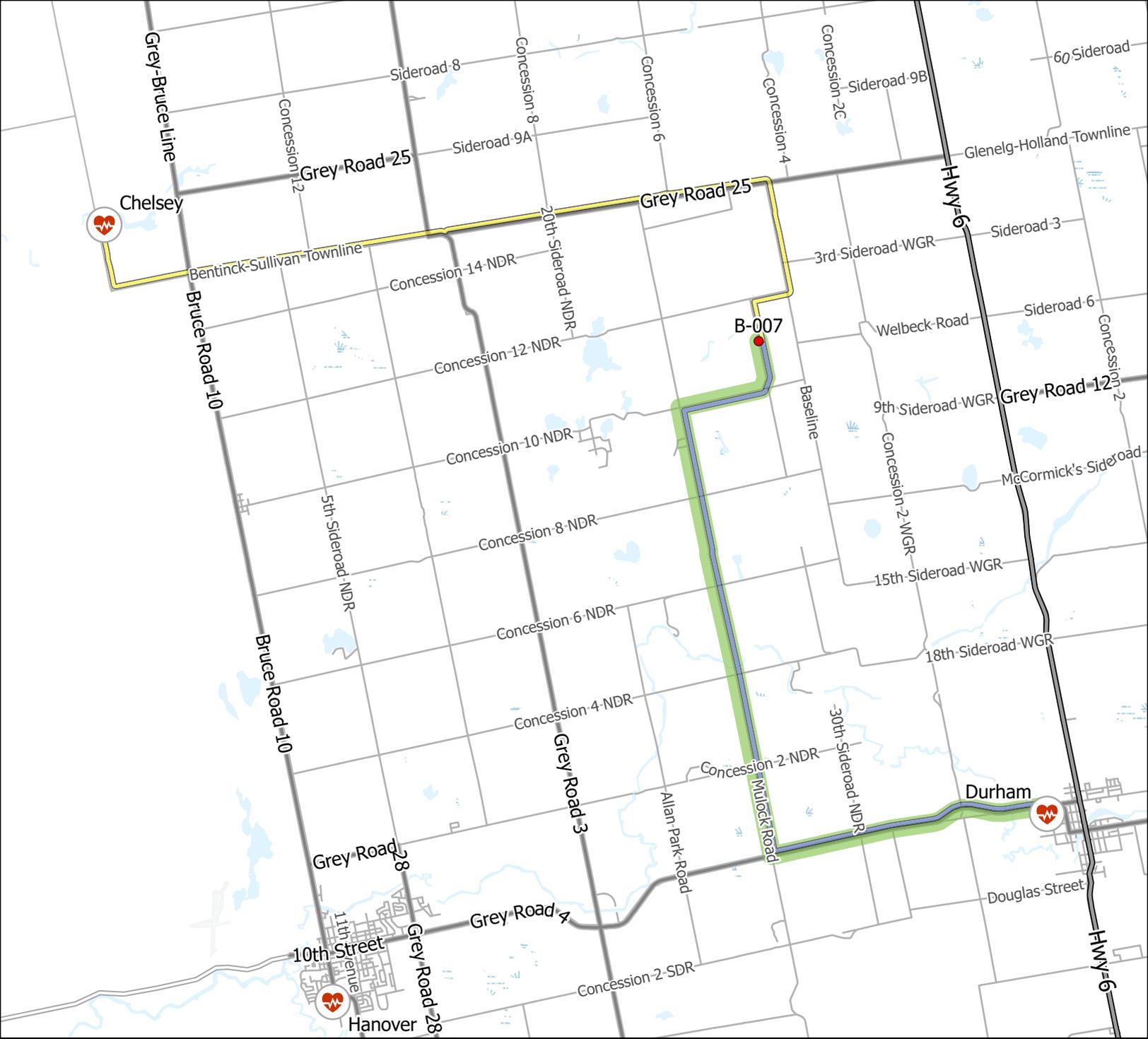
Structure: B-007

Travel Time Difference: 0.7 minutes

- **Structure**
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-007 - Durham	21.5	20	N/W Barrier
B-007 - Durham	21.5	20	Original
B-007 - Chelsey	22.2	20.8	S/E Barrier

0   1.25   2.5   5   7.5   10
km

N
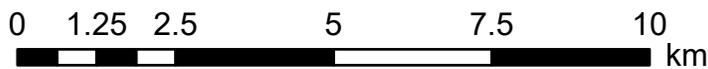
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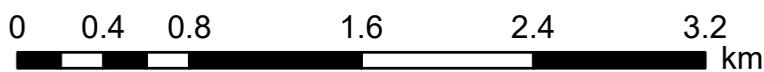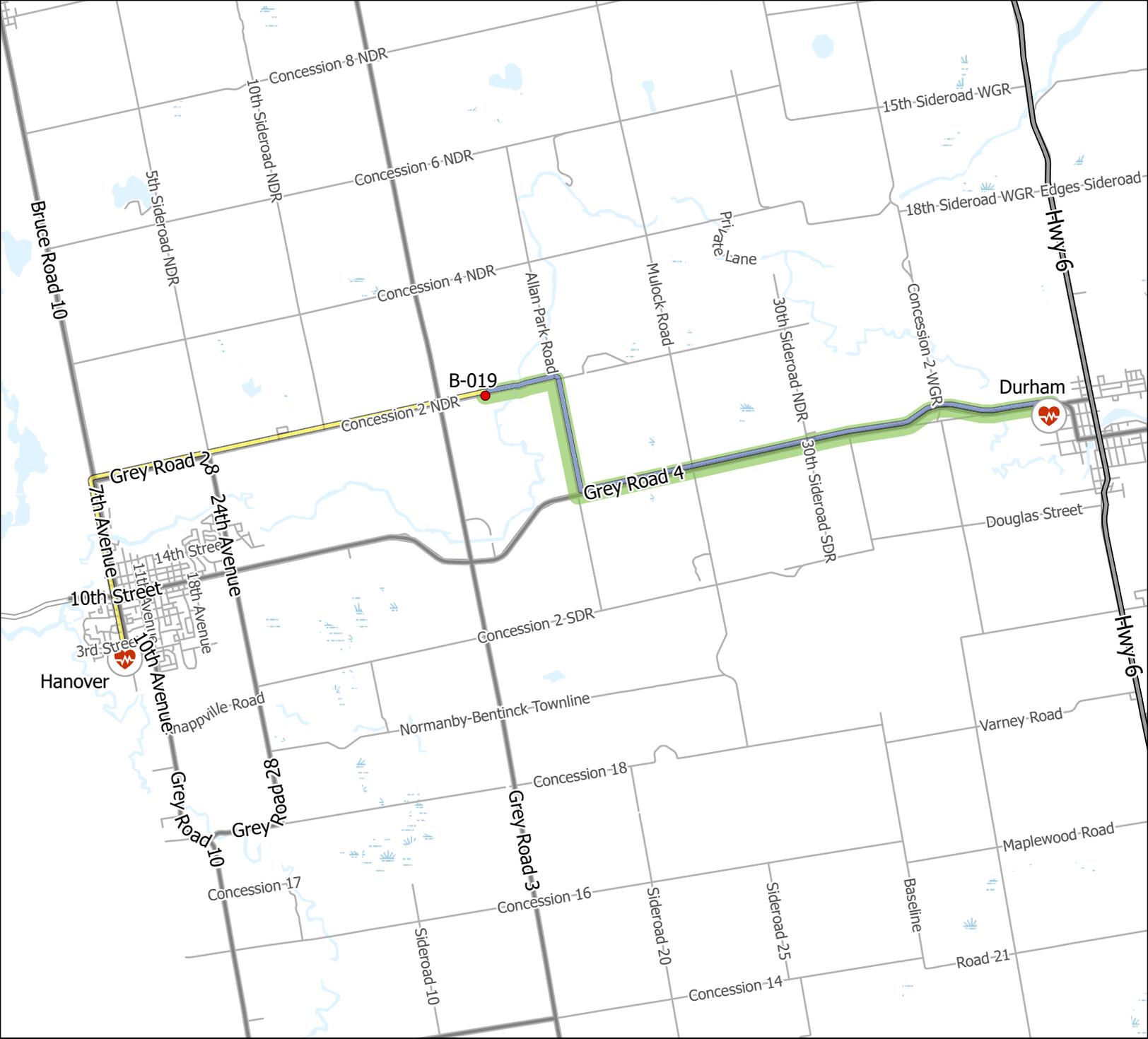Date: October 17, 2024
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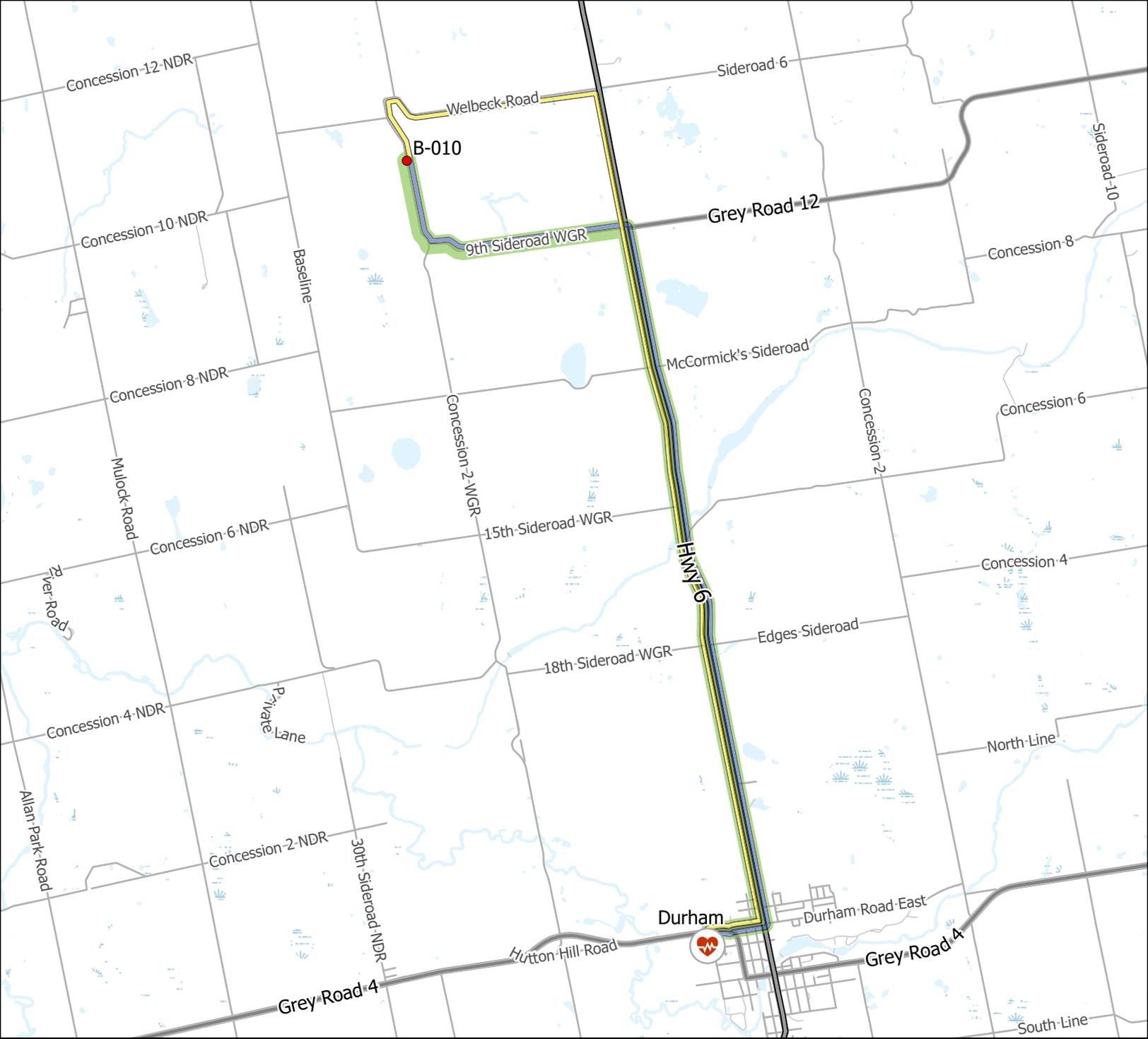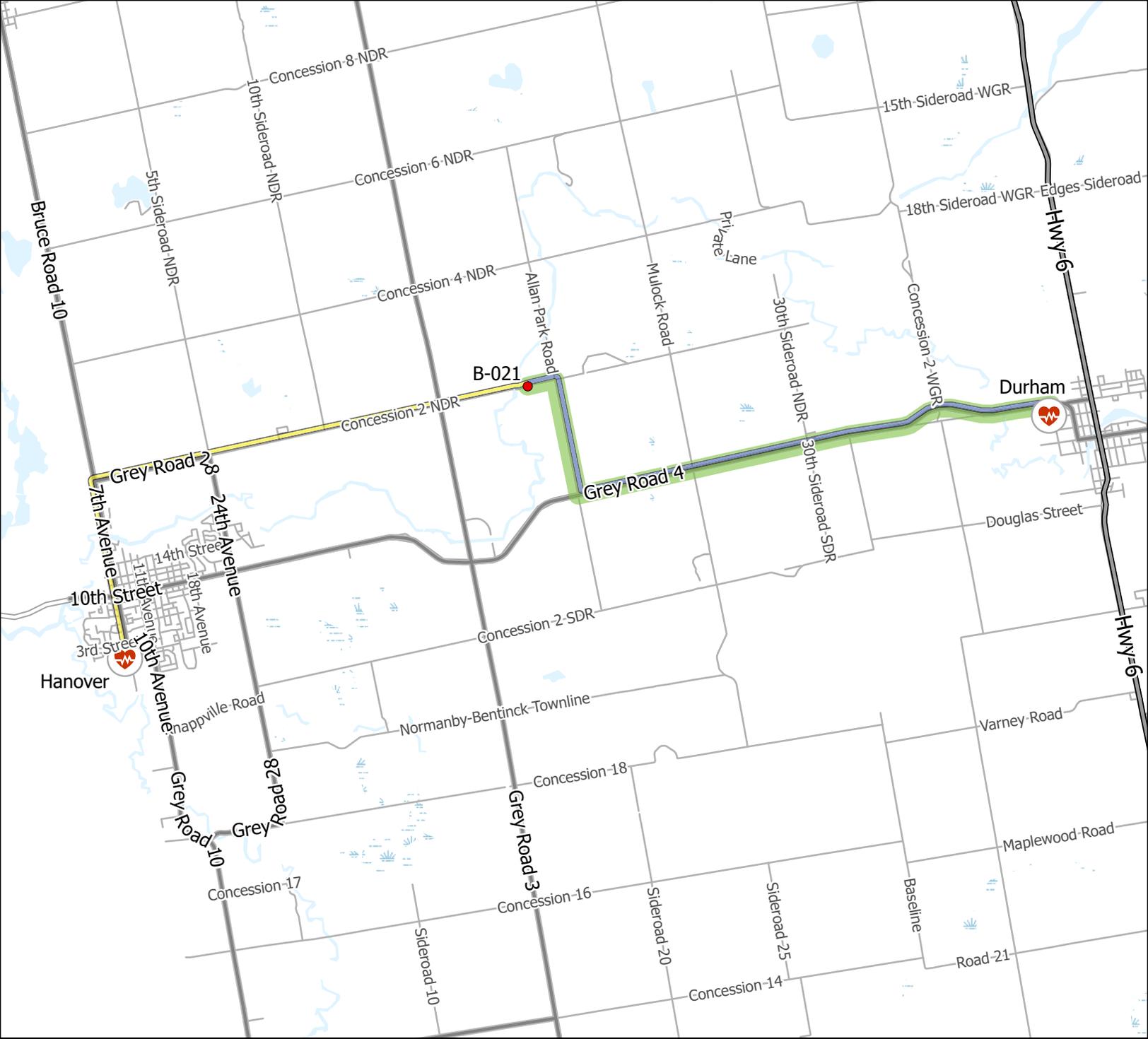
Structure: B-010

Travel Time Difference: 1.7 minutes

- ● Structure
- Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-010 - Durham	12.7	14	N/W Barrier
B-010 - Durham	12.7	14	Original
B-010 - Durham	14.4	15.9	S/E Barrier

0   0.75   1.5   3   4.5   6   km

N
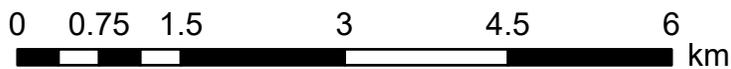
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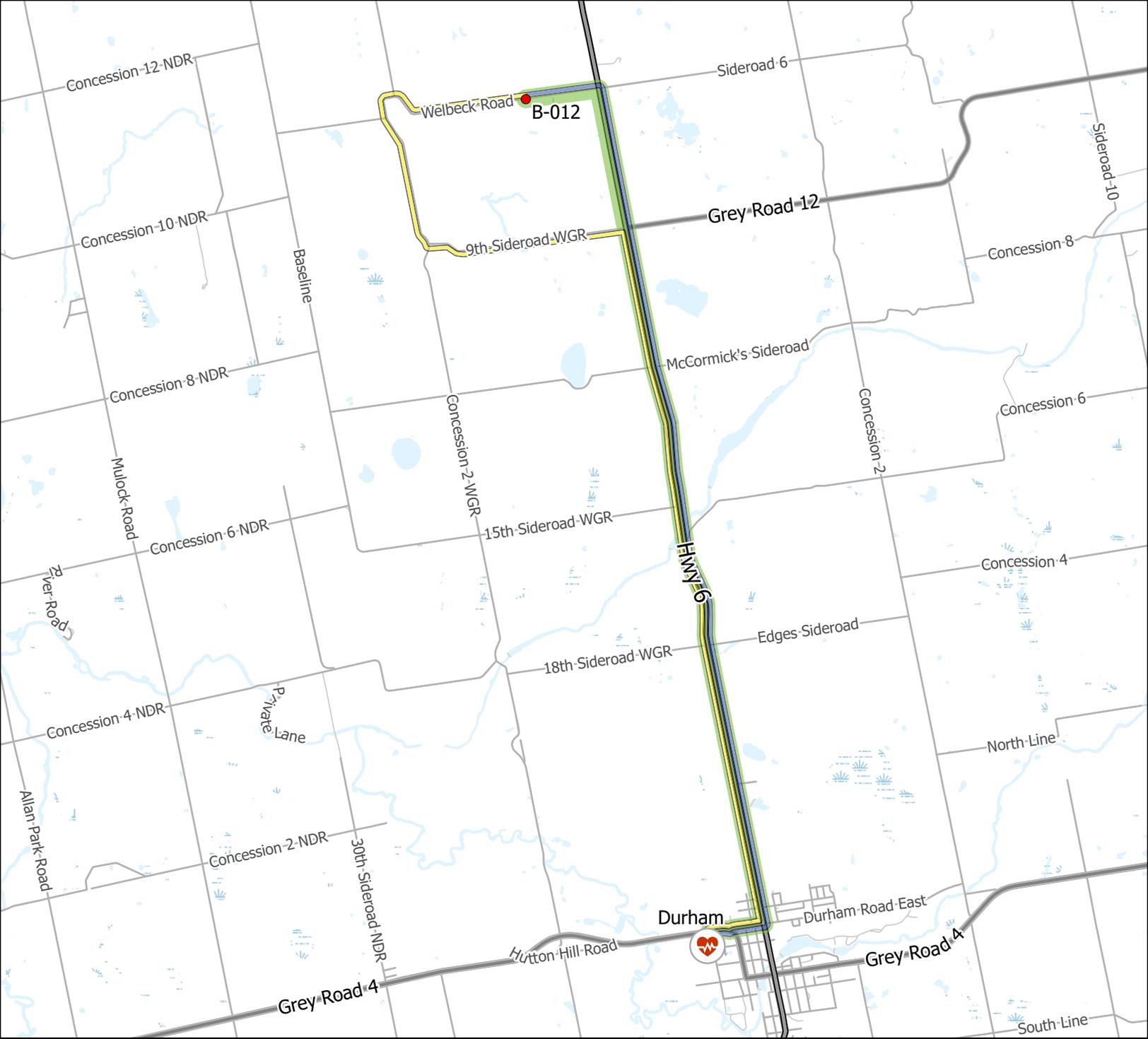
Structure: B-012

Travel Time Difference: 4.4 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-012 - Durham	11.3	13.1	N/W Barrier
B-012 - Durham	11.3	13.1	Original
B-012 - Durham	15.8	16.9	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.75 1.5 3 4.5 6 km

N

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Date: October 17, 2024
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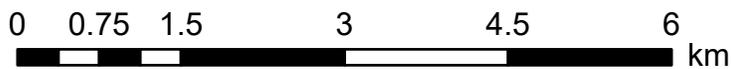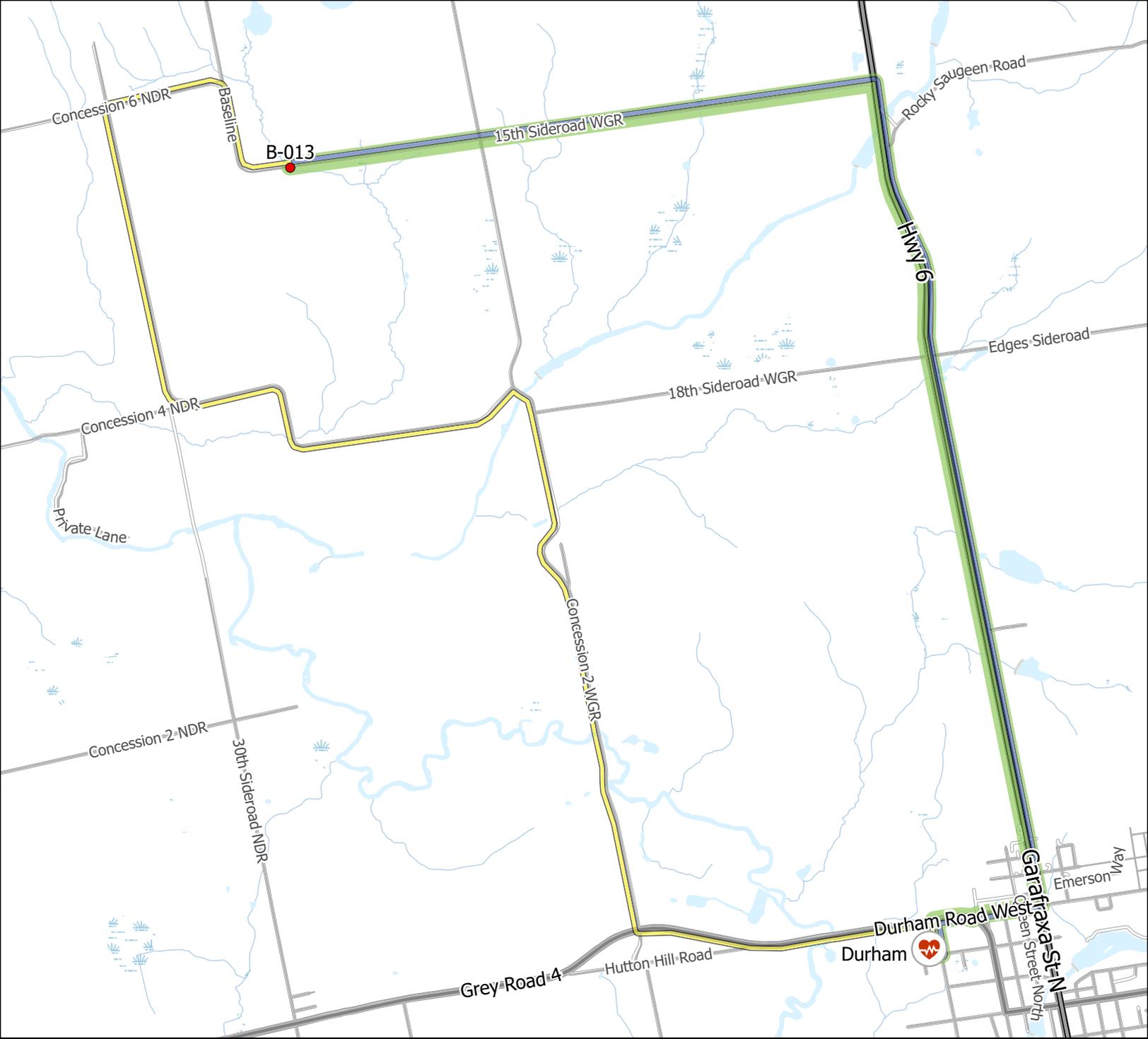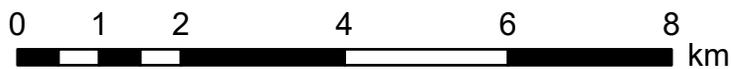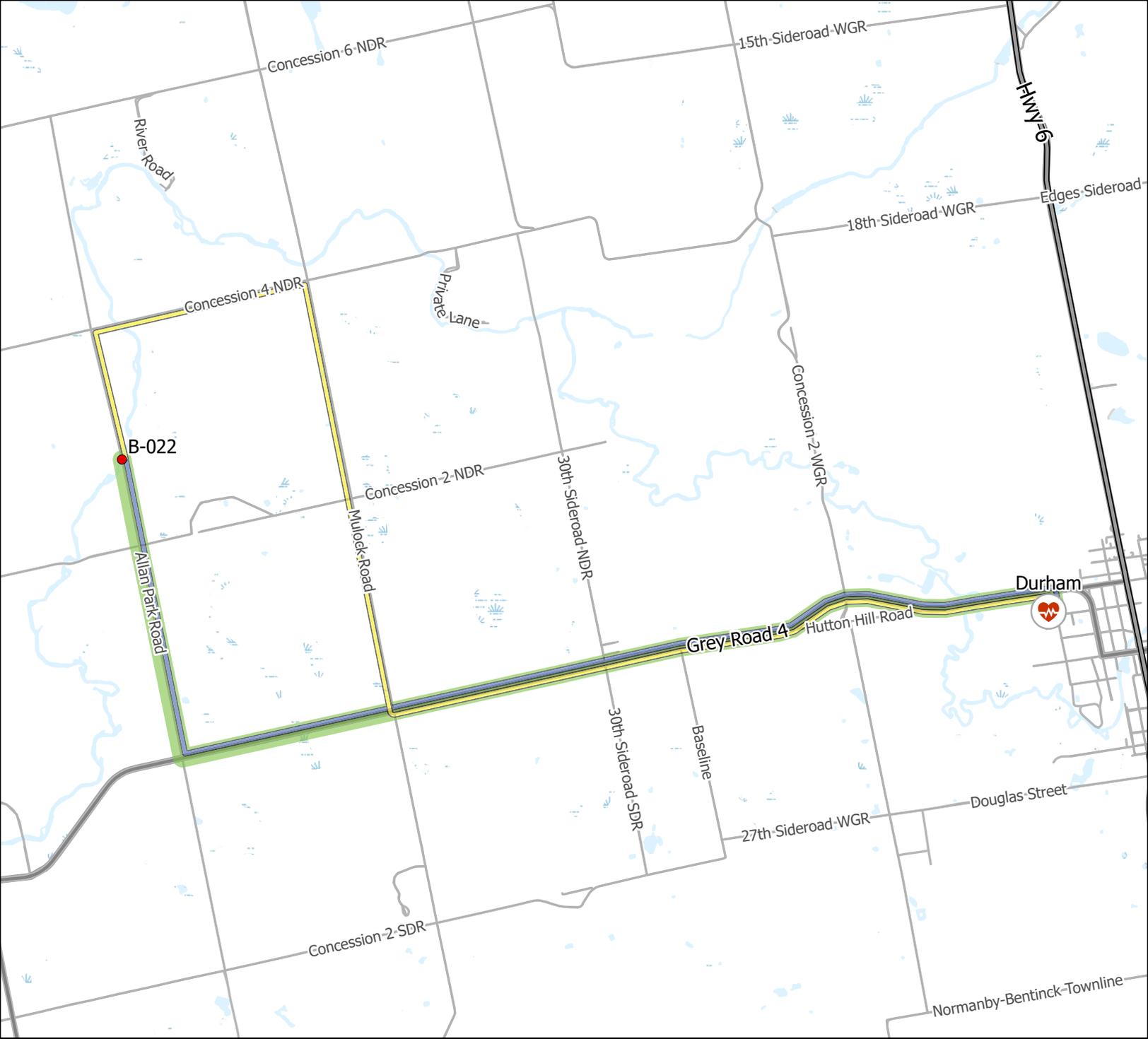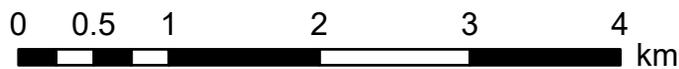
Structure: B-013

Travel Time Difference: 3.4 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-013 - Durham	9.4	10.5	N/W Barrier
B-013 - Durham	9.4	10.5	Original
B-013 - Durham	12.8	12.4	S/E Barrier

0   0.4   0.8   1.6   2.4   3.2
km

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Structure: B-014

Travel Time Difference: 1.5 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-014 - Durham	10.2	12.7	N/W Barrier
B-014 - Durham	10.2	12.7	Original
B-014 - Durham	11.7	13.1	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.5 1 2 3 4 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: B-015

Travel Time Difference: 2.2 minutes

- **Structure** (red dot)
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-015 - Durham	9	11.1	N/W Barrier
B-015 - Durham	9	11.1	Original
B-015 - Durham	11.1	11.1	S/E Barrier

0   0.45   0.9   1.8   2.7   3.6
km

N

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Date: October 17, 2024
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Structure: B-016

Travel Time Difference: 2.2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-016 - Durham	8.9	11	N/W Barrier
B-016 - Durham	8.9	11	Original
B-016 - Durham	11	10.9	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   0.45   0.9   1.8   2.7   3.6 km

N

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Date: October 17, 2024
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Structure: B-017

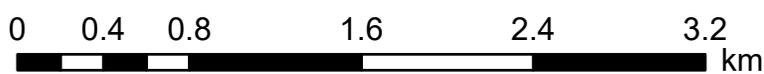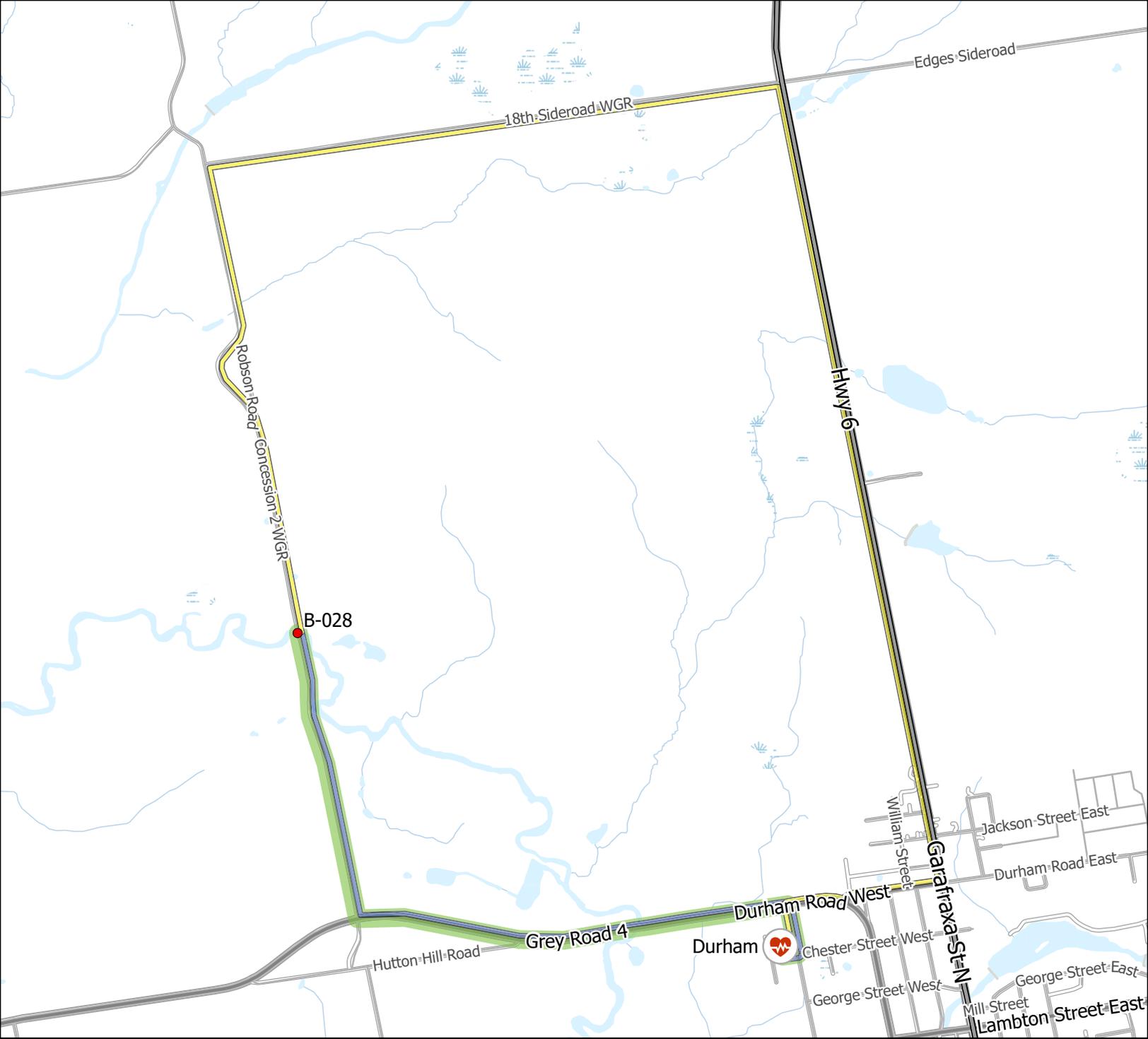### Travel Time Difference: 0.3 minutes

- • Structure
- ♥ Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-017 - Durham	9.7	9.7	N/W Barrier
B-017 - Durham	9.7	9.7	Original
B-017 - Durham	10	12	S/E Barrier

0   0.45   0.9   1.8   2.7   3.6
km

Structure: B-018

Travel Time Difference: 4.1 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-018 - Durham	5.8	6	N/W Barrier
B-018 - Durham	5.8	6	Original
B-018 - Durham	10	11	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.4 0.8 1.6 2.4 3.2 km

N

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Date: October 17, 2024
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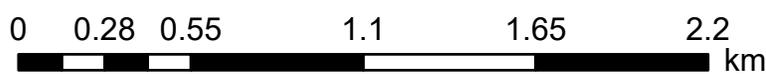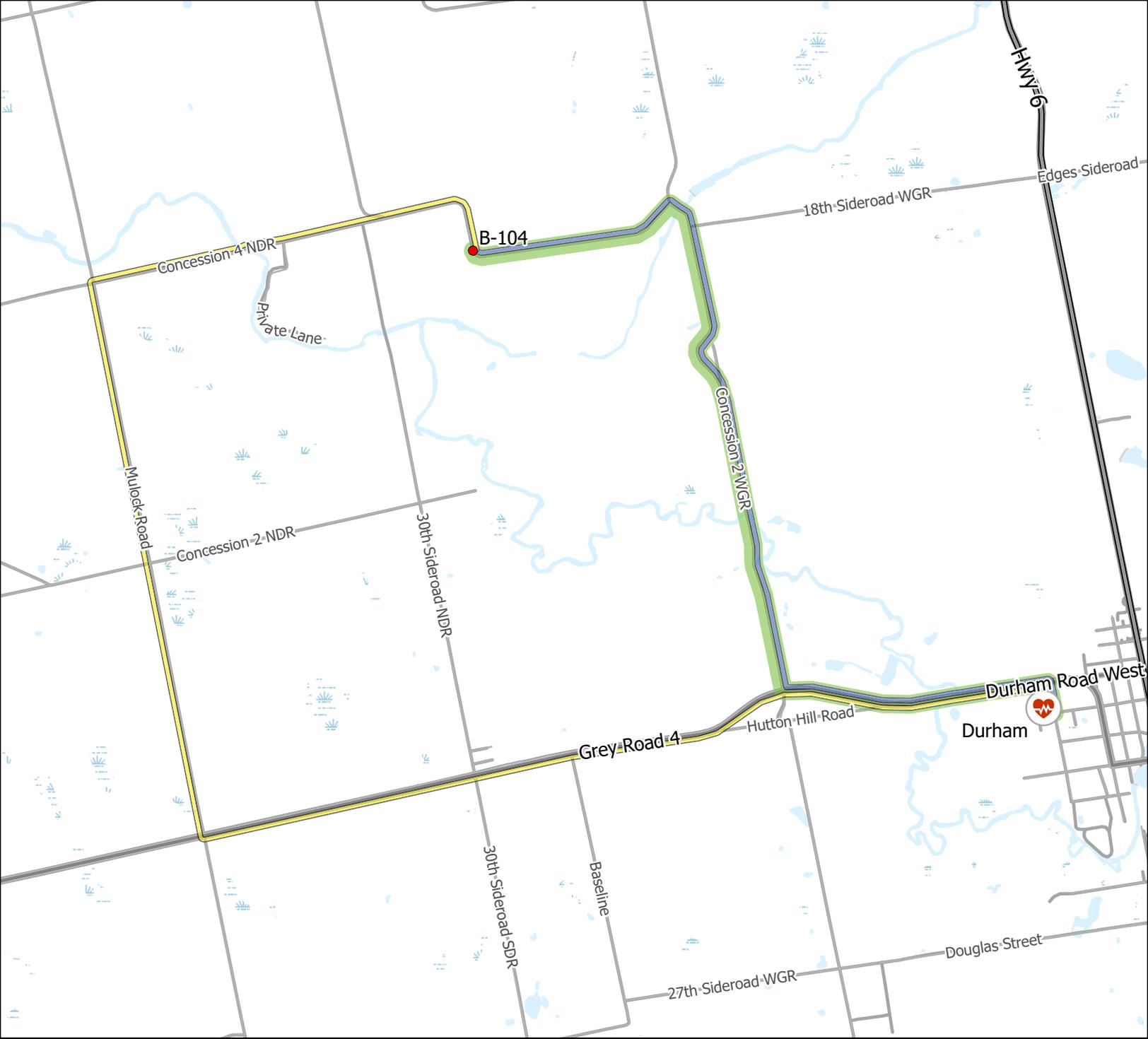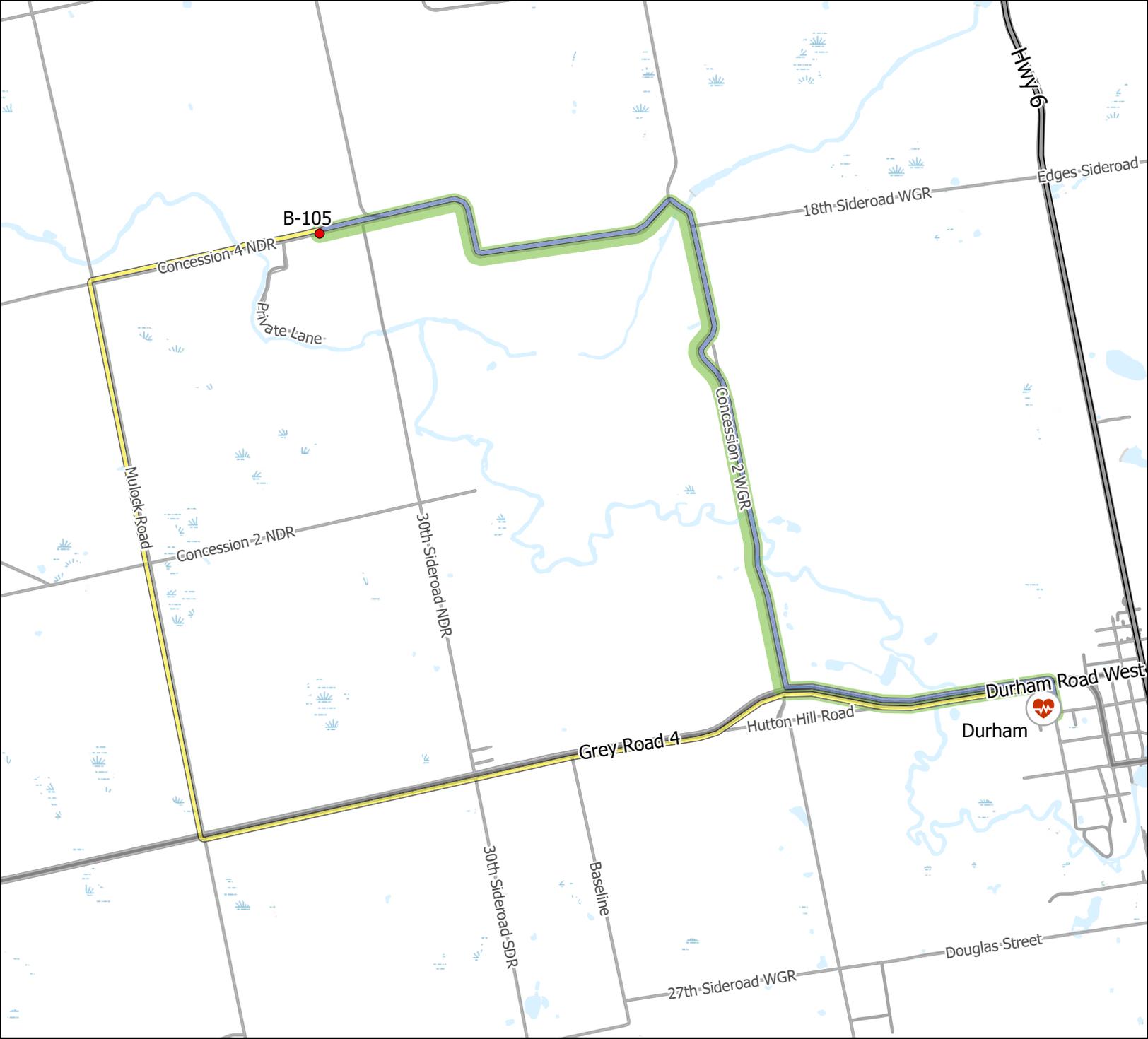## Structure: B-019

Travel Time Difference: 0.9 minutes

● Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-019 - Durham	10.9	12	N/W Barrier
B-019 - Durham	10.9	12	Original
B-019 - Hanover	11.8	10.2	S/E Barrier

0   1   2   4   6   8
km

N

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Date: October 17, 2024
NAD83 UTM Zone 17

Structure: B-021

Travel Time Difference: 2.9 minutes

- **Structure** (red dot)
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-021 - Durham	9.9	11.3	N/W Barrier
B-021 - Durham	9.9	11.3	Original
B-021 - Hanover	12.8	10.9	S/E Barrier

0 1 2 4 6 8 km

N

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Date: October 17, 2024
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Structure: B-022

Travel Time Difference: 1.5 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-022 - Durham	10.2	11.6	N/W Barrier
B-022 - Durham	10.2	11.6	Original
B-022 - Durham	11.7	14.2	S/E Barrier

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.5 1 2 3 4
km

N

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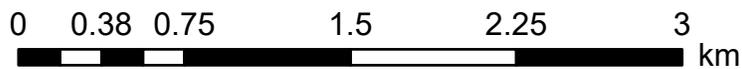Date: October 17, 2024
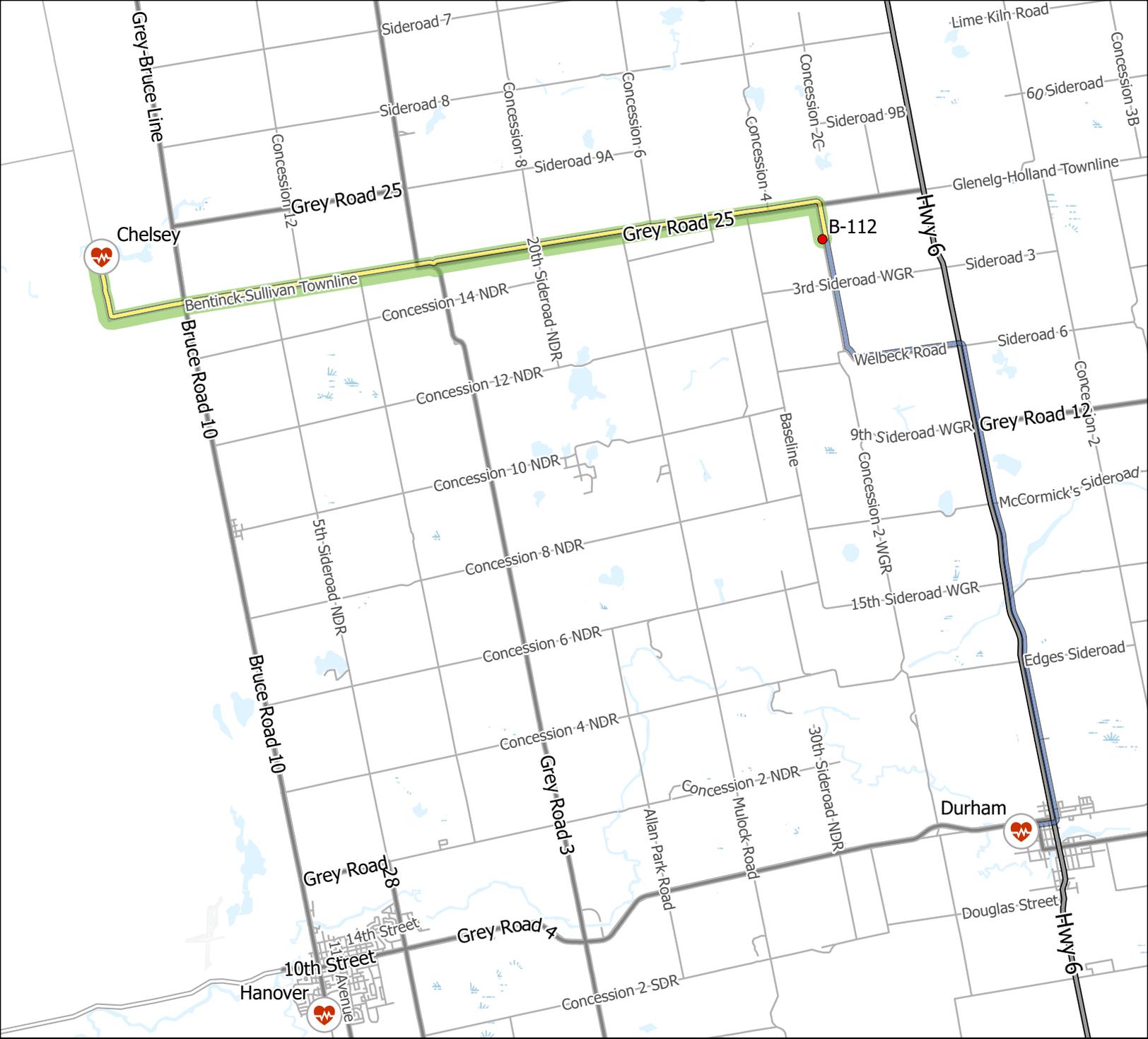NAD83 UTM Zone 17
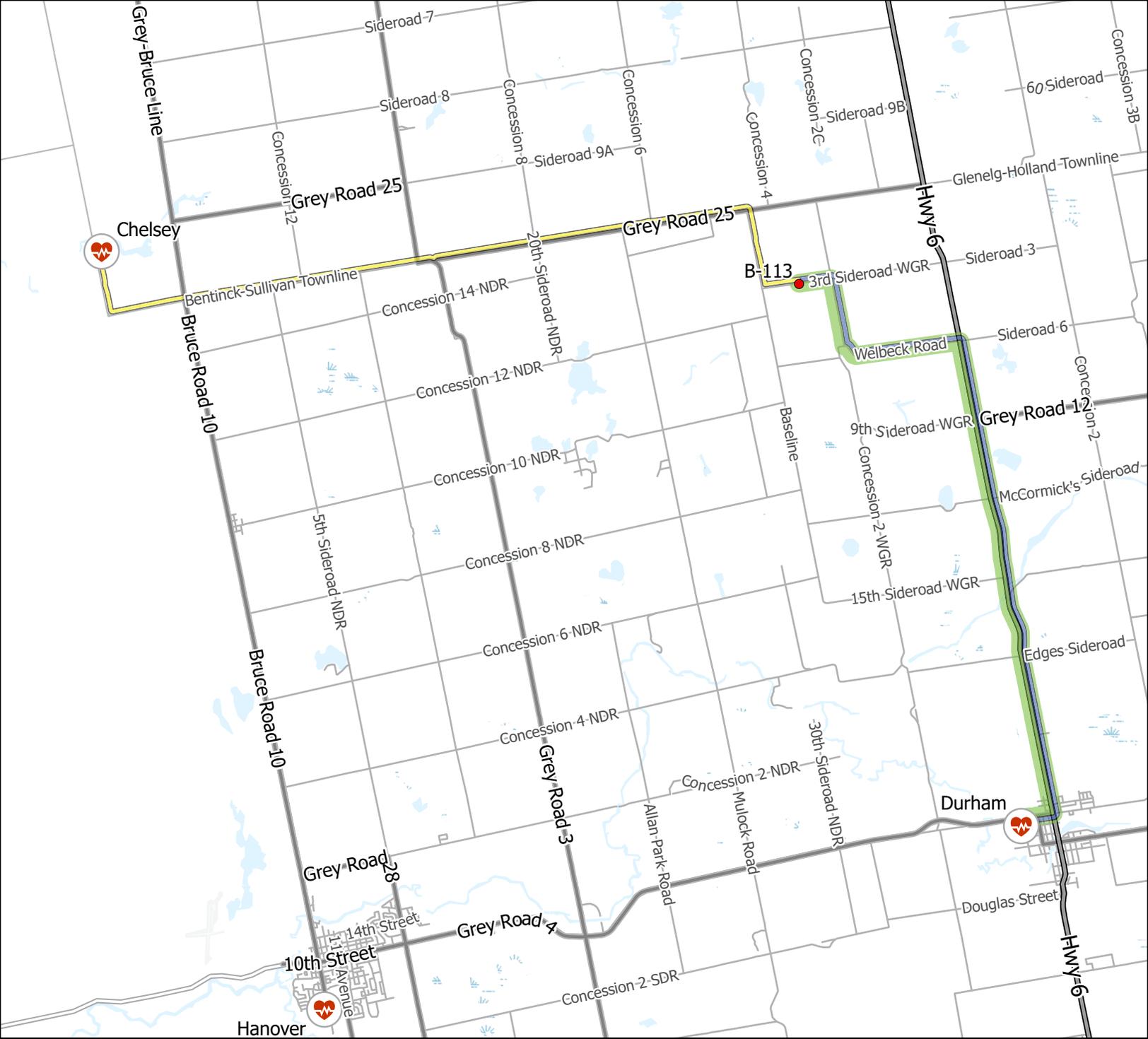
Structure: B-023

Travel Time Difference: 2.9 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-023 - Durham	11.3	12	N/W Barrier
B-023 - Durham	8.4	9.6	Original
B-023 - Durham	8.4	9.6	S/E Barrier

0   0.5   1   2   3   4
km

N
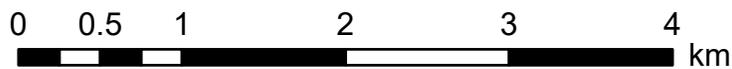
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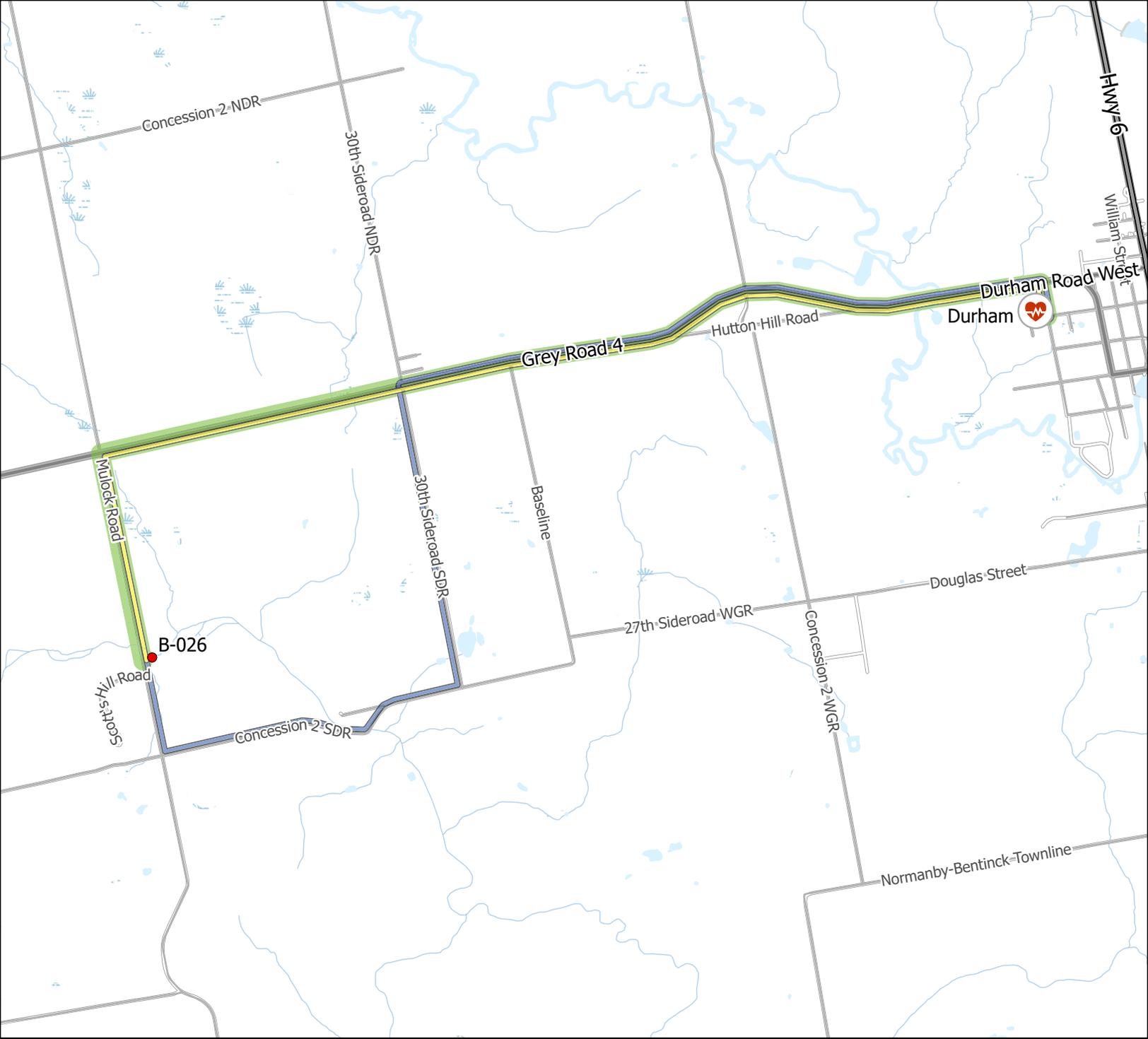
Structure: B-026

Travel Time Difference: 2.3 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-026 - Durham	9.4	9.5	N/W Barrier
B-026 - Durham	7.2	8.1	Original
B-026 - Durham	7.2	8.1	S/E Barrier

- ● Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   0.4   0.8   1.6   2.4   3.2
km

N
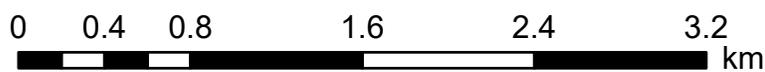
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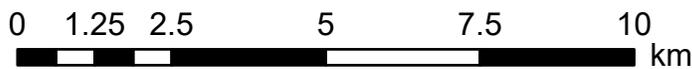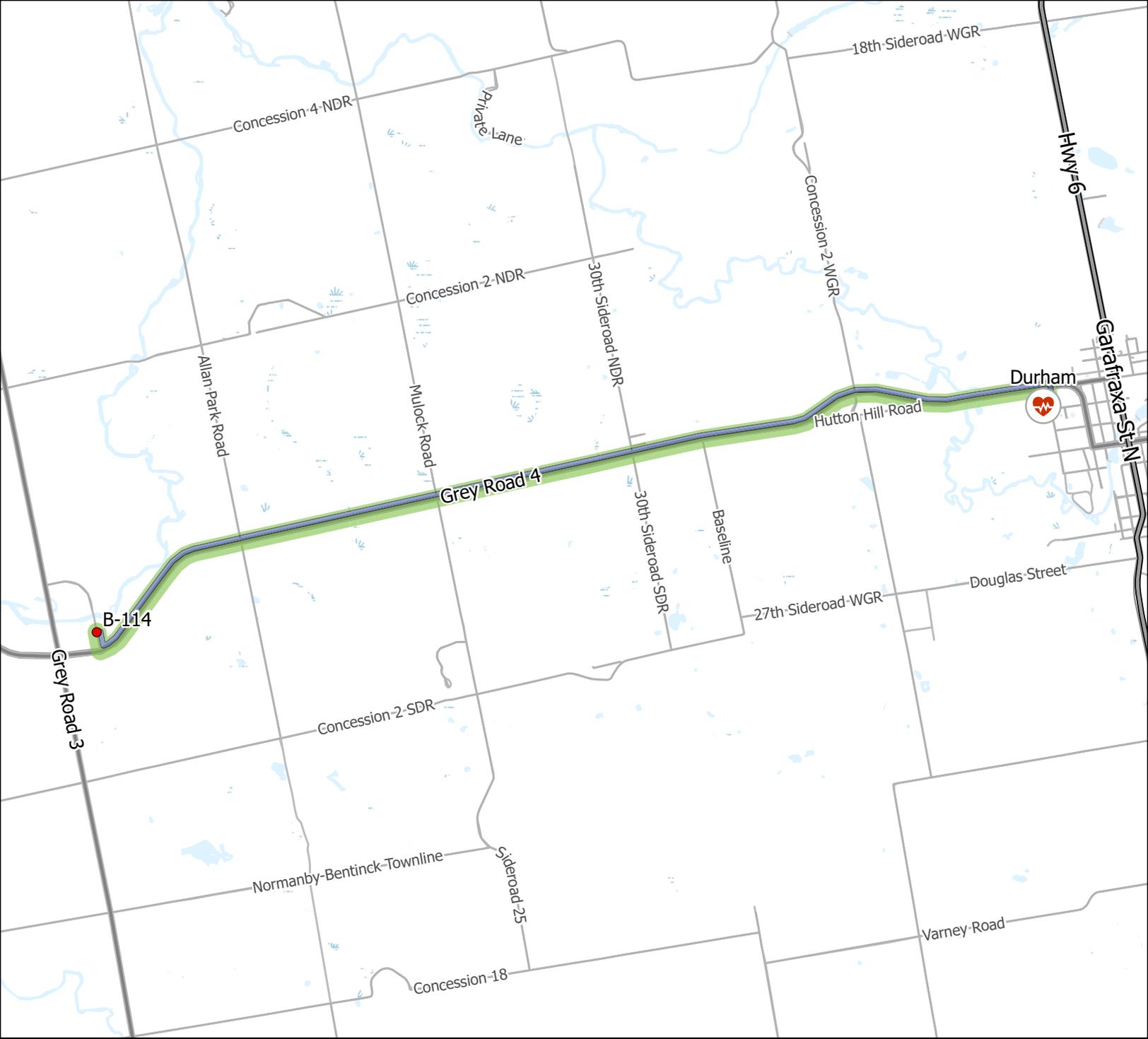NAD83 UTM Zone 17
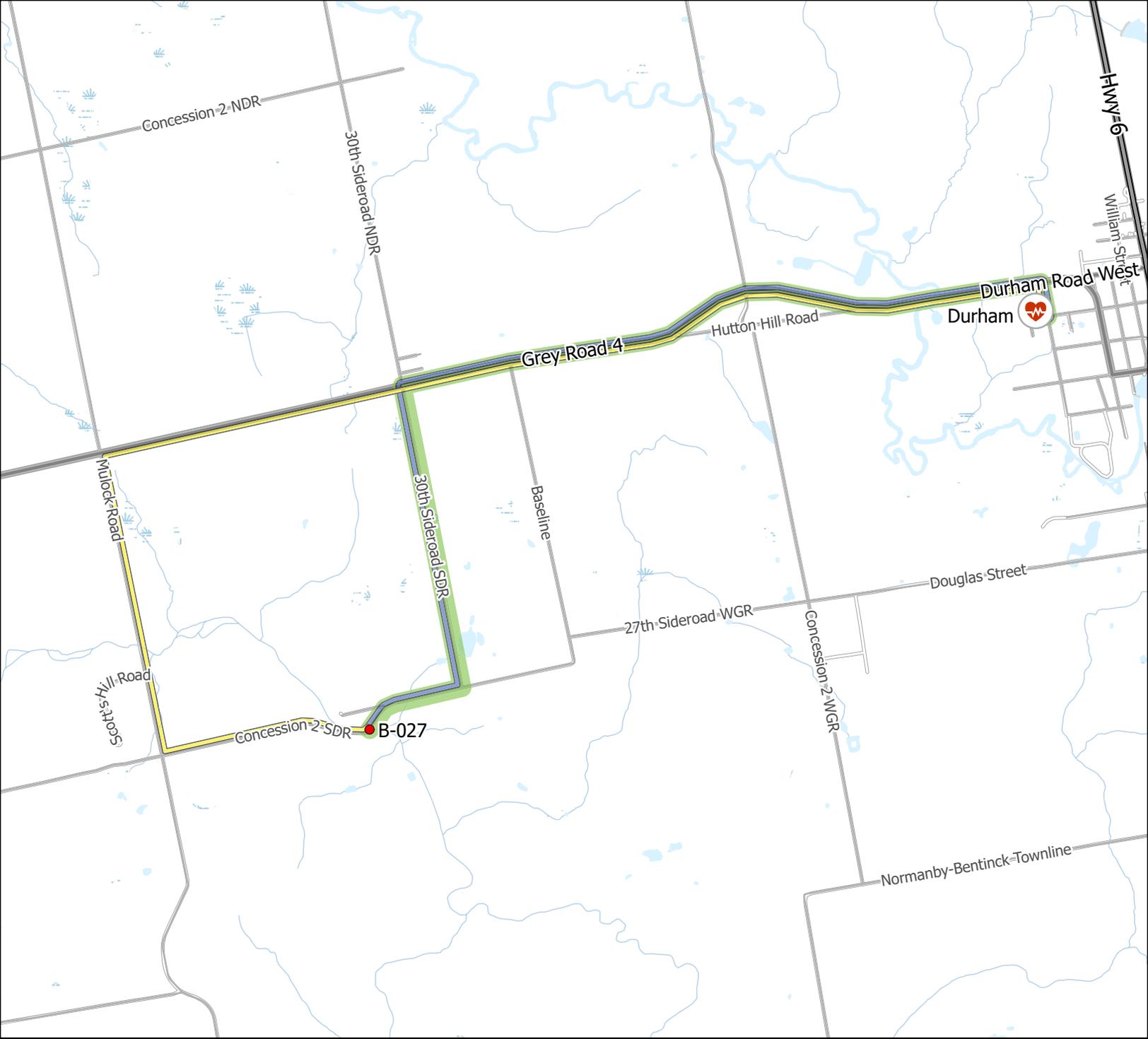
Structure: B-027

Travel Time Difference: 2.1 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-027 - Durham	7.3	7.4	N/W Barrier
B-027 - Durham	7.3	7.4	Original
B-027 - Durham	9.4	10.2	S/E Barrier

0 0.4 0.8 1.6 2.4 3.2 km

N

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Structure: B-028

Travel Time Difference: 5.3 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-028 - Durham	3.8	3.6	N/W Barrier
B-028 - Durham	3.8	3.6	Original
B-028 - Durham	9.1	9.6	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.28 0.55 1.1 1.65 2.2
km

N

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Structure: B-104

Travel Time Difference: 4.1 minutes
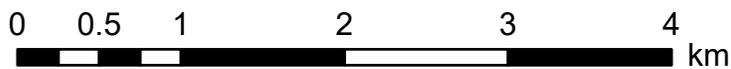
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-104 - Durham	7.7	7.7	N/W Barrier
B-104 - Durham	7.7	7.7	Original
B-104 - Durham	11.8	14	S/E Barrier

0   0.45   0.9   1.8   2.7   3.6
km

Created by: Grey County GIS
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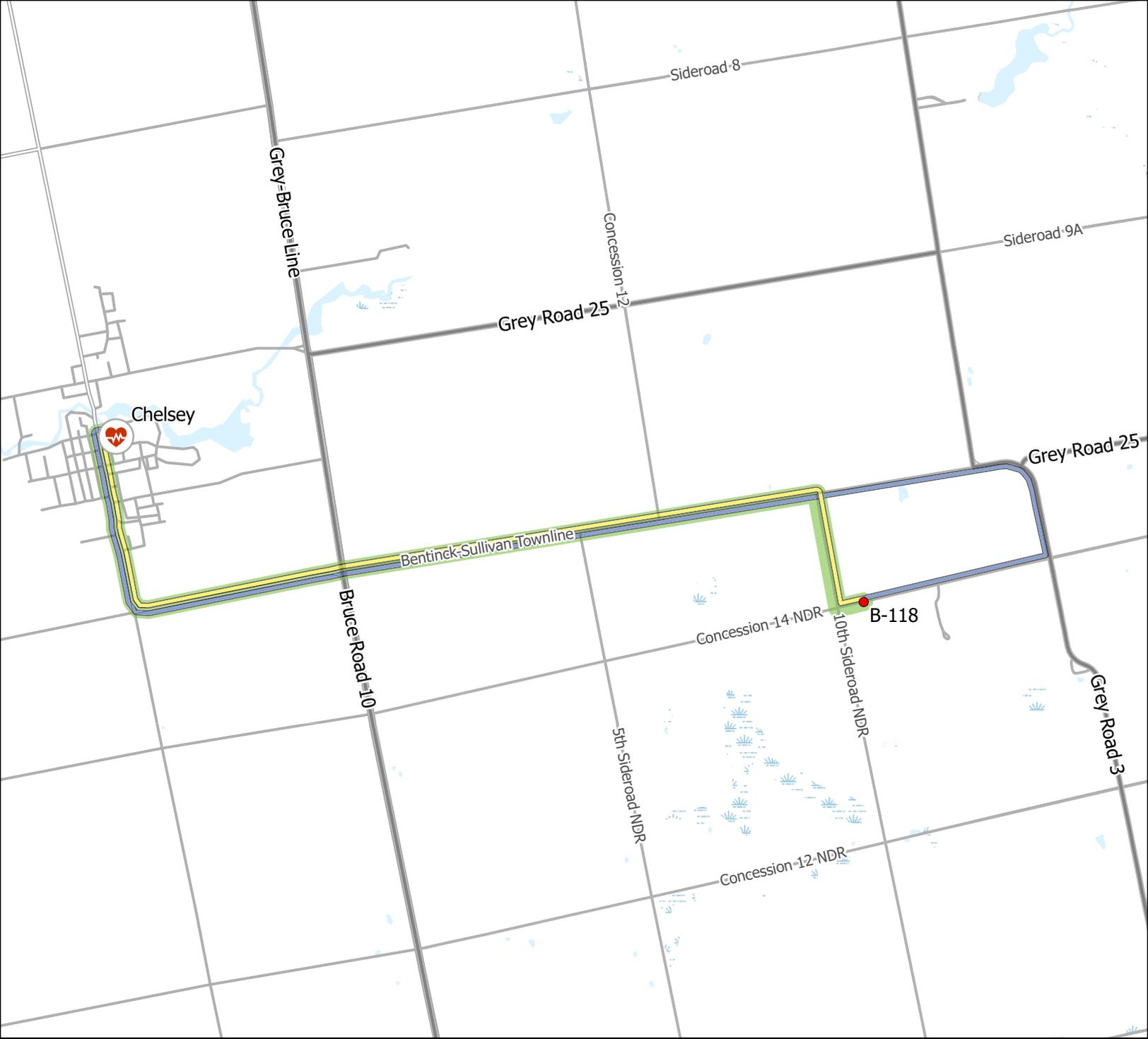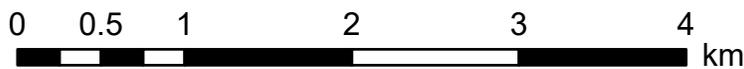NAD83 UTM Zone 17
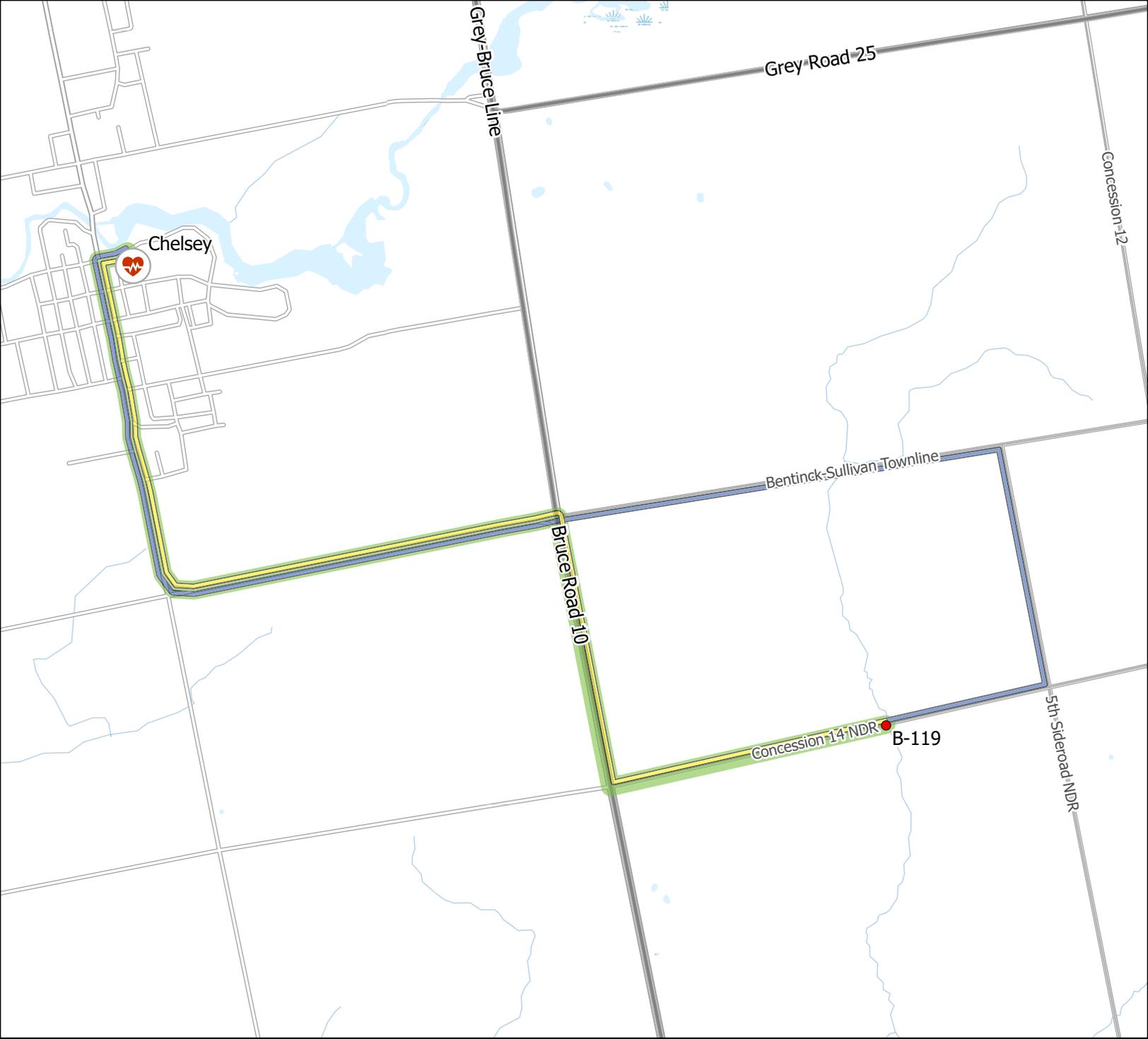
Structure: B-105

Travel Time Difference: 1.4 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-105 - Durham	9.1	9.1	N/W Barrier
B-105 - Durham	9.1	9.1	Original
B-105 - Durham	10.5	12.6	S/E Barrier

0	0.45	0.9	1.8	2.7	3.6

km

N

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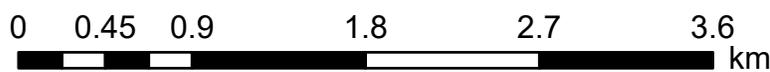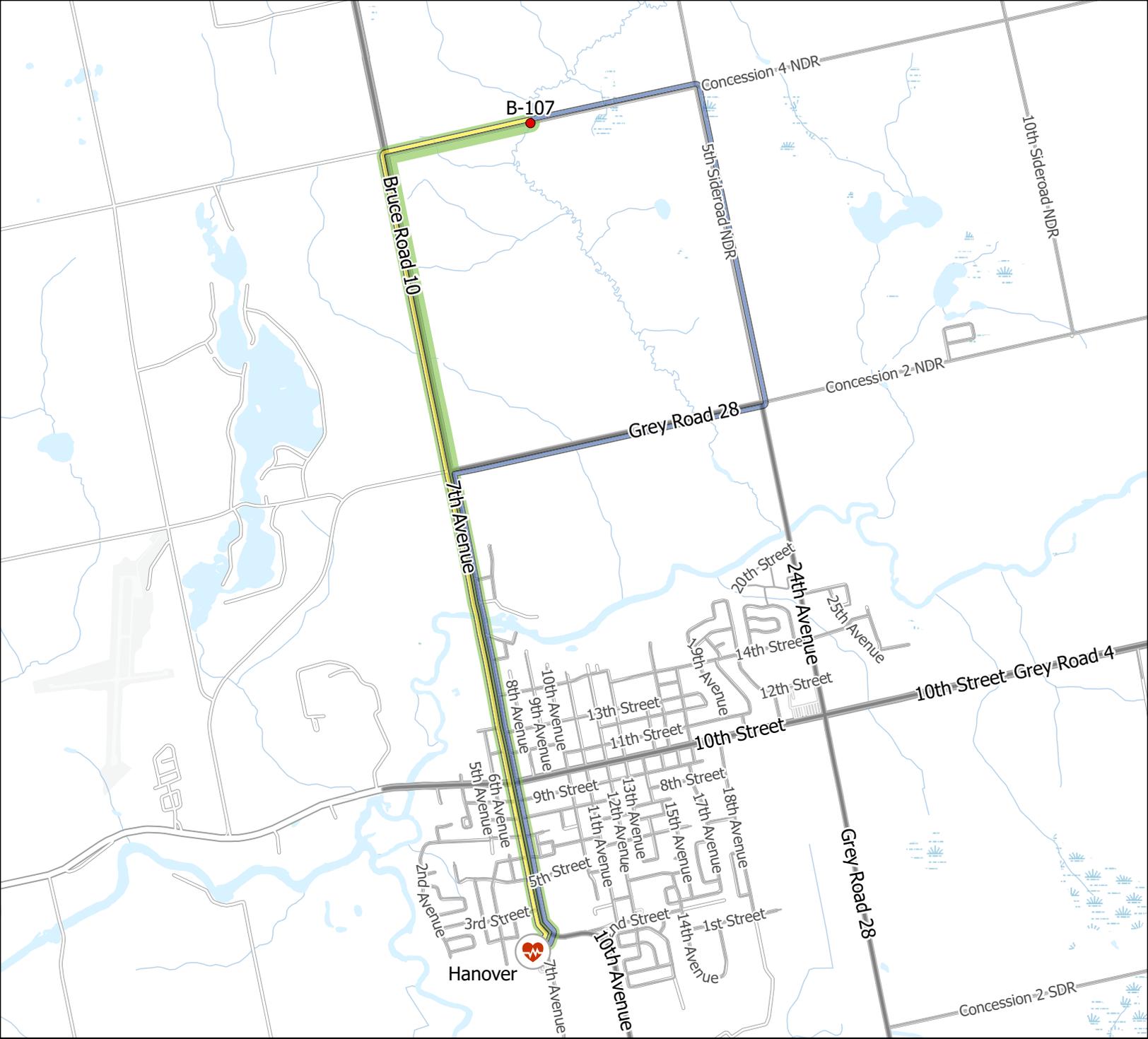
Structure: B-107

Travel Time Difference: 2.1 minutes

- 🔴 Structure
- 💗 Hospital
- 🟩 Original (Fastest)
- 🟦 N/W Barrier
- 🟨 S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-107 - Hanover	10.2	8.4	N/W Barrier
B-107 - Hanover	8.1	6.3	Original
B-107 - Hanover	8.1	6.3	S/E Barrier

0   0.38 0.75   1.5   2.25   3
km

N

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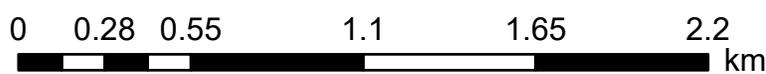Date: October 17, 2024
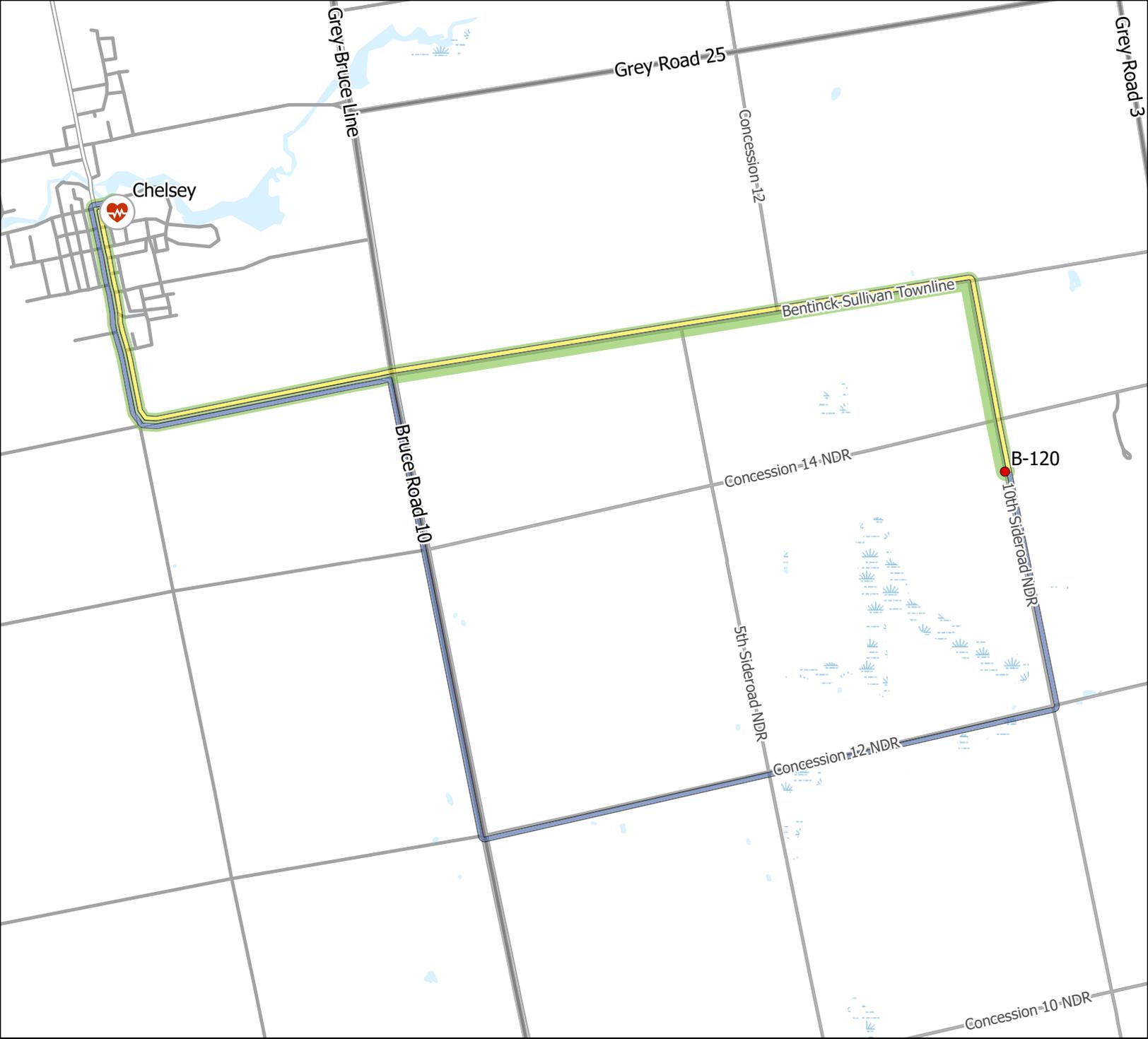NAD83 UTM Zone 17
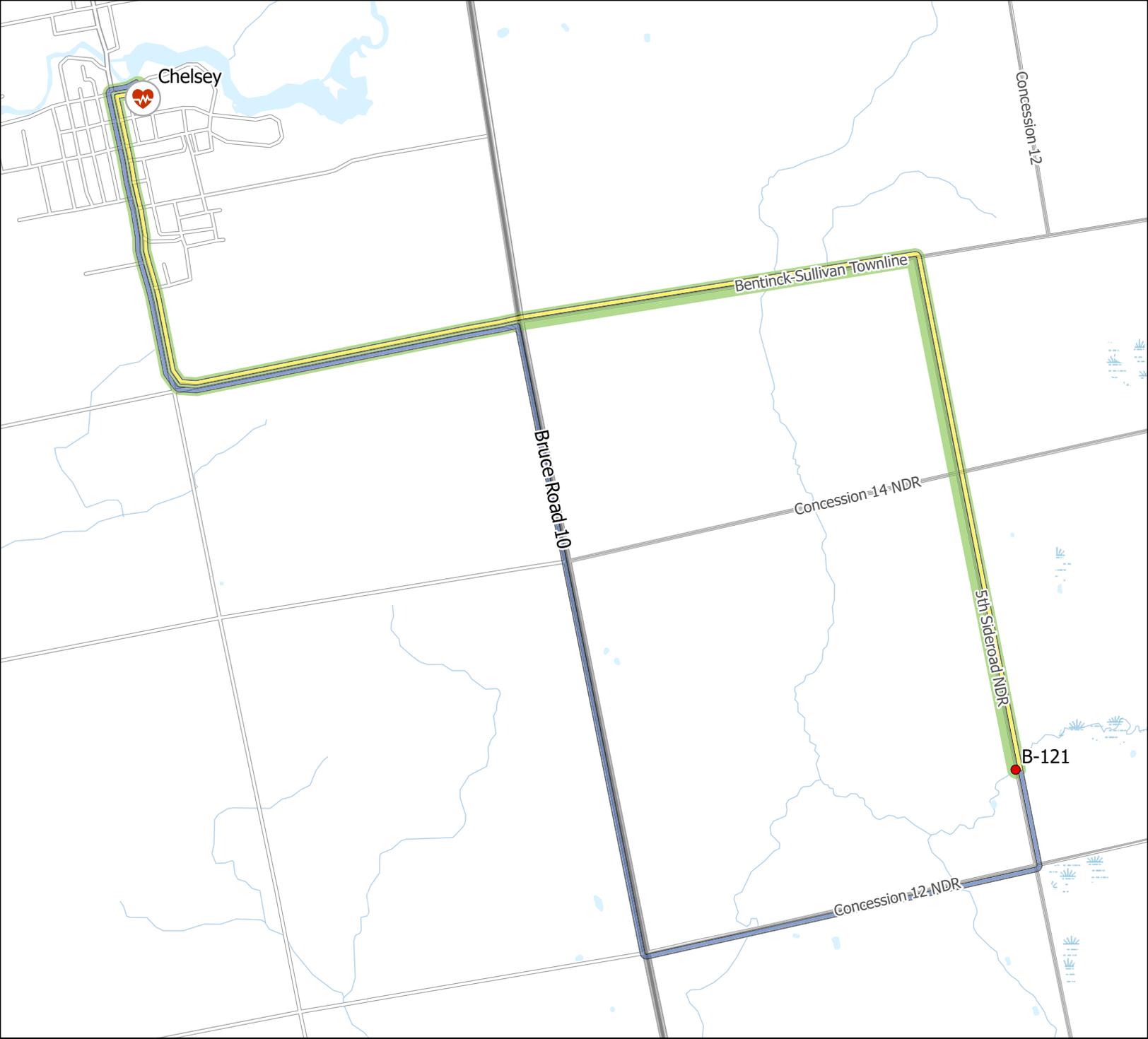
Structure: B-112

Travel Time Difference: 0.3 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-112 - Durham	16	17.5	N/W Barrier
B-112 - Chelsey	15.7	18.9	Original
B-112 - Chelsey	15.7	18.9	S/E Barrier

0   1.25   2.5   5   7.5   10
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: B-113

Travel Time Difference: 0.7 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-113 - Durham	15.6	17.2	N/W Barrier
B-113 - Durham	15.6	17.2	Original
B-113 - Chelsey	16.3	19.2	S/E Barrier

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   1.25 2.5   5   7.5   10
km

N

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NAD83 UTM Zone 17

Structure: B-114

Not a through road. Closure of B-114 would require full road closure north of structure

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-114 - Durham	9.4	10.8	N/W Barrier
B-114 - Durham	9.4	10.8	Original

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.5 1 2 3 4 km

N
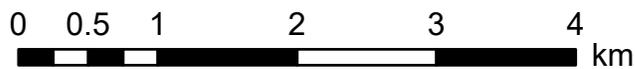
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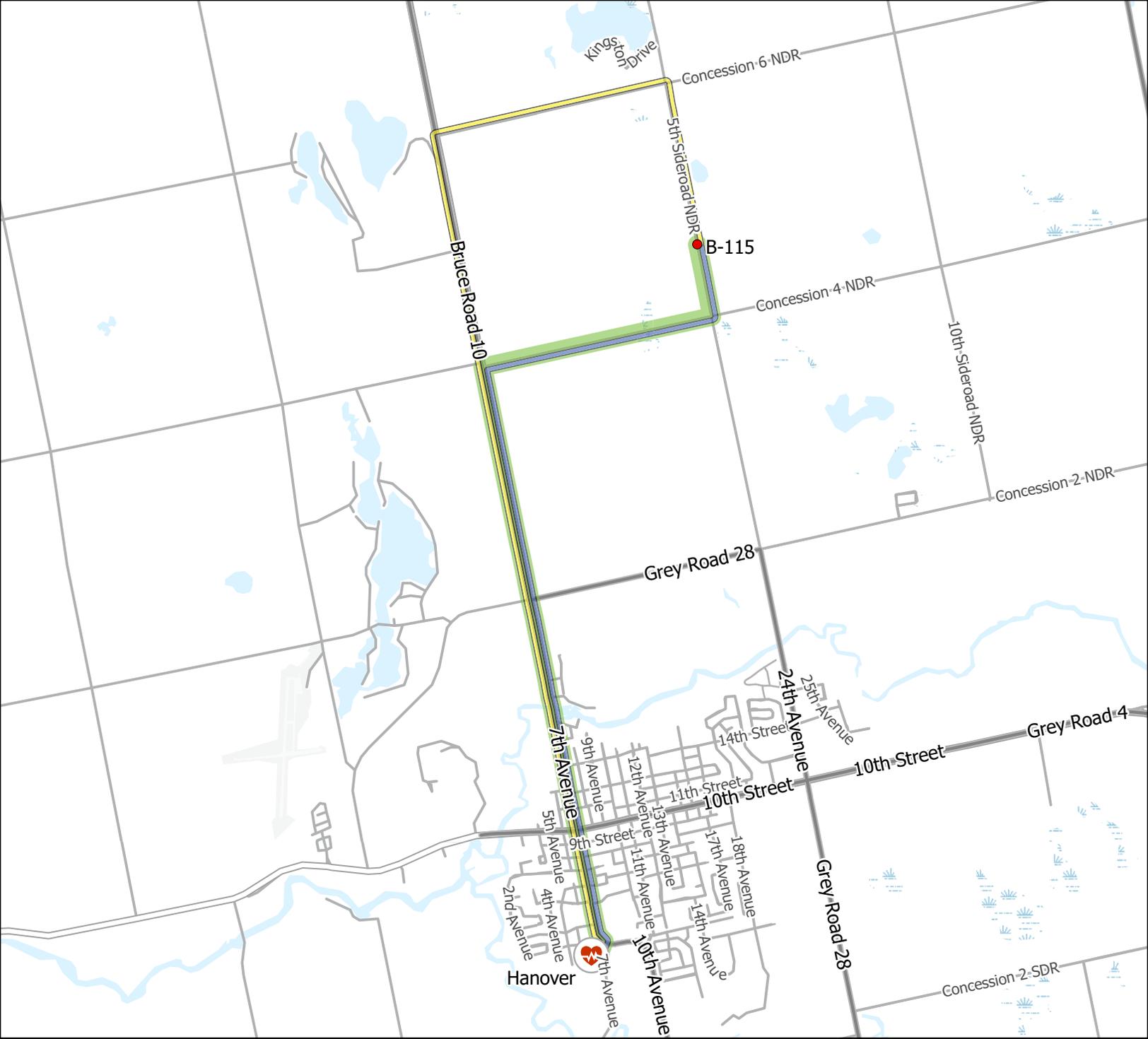
Structure: B-115

Travel Time Difference: 2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-115 - Hanover	9.6	8	N/W Barrier
B-115 - Hanover	9.6	8	Original
B-115 - Hanover	11.6	10.8	S/E Barrier

0 0.5 1 2 3 4 km

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Structure: B-118

Travel Time Difference: 1.8 minutes

- **Structure** (red dot)
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-118 - Chelsey	10.4	11.7	N/W Barrier
B-118 - Chelsey	8.7	8.7	Original
B-118 - Chelsey	8.7	8.7	S/E Barrier

0 0.5 1 2 3 4 km

N

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Date: October 17, 2024
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Structure: B-119

Travel Time Difference: 1.2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-119 - Chelsey	7.3	7.3	N/W Barrier
B-119 - Chelsey	6.2	6	Original
B-119 - Chelsey	6.2	6	S/E Barrier

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   0.28   0.55   1.1   1.65   2.2
km

Structure: B-120

Travel Time Difference: 3 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-120 - Chelsey	11.9	12.4	N/W Barrier
B-120 - Chelsey	8.9	8.9	Original
B-120 - Chelsey	8.9	8.9	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

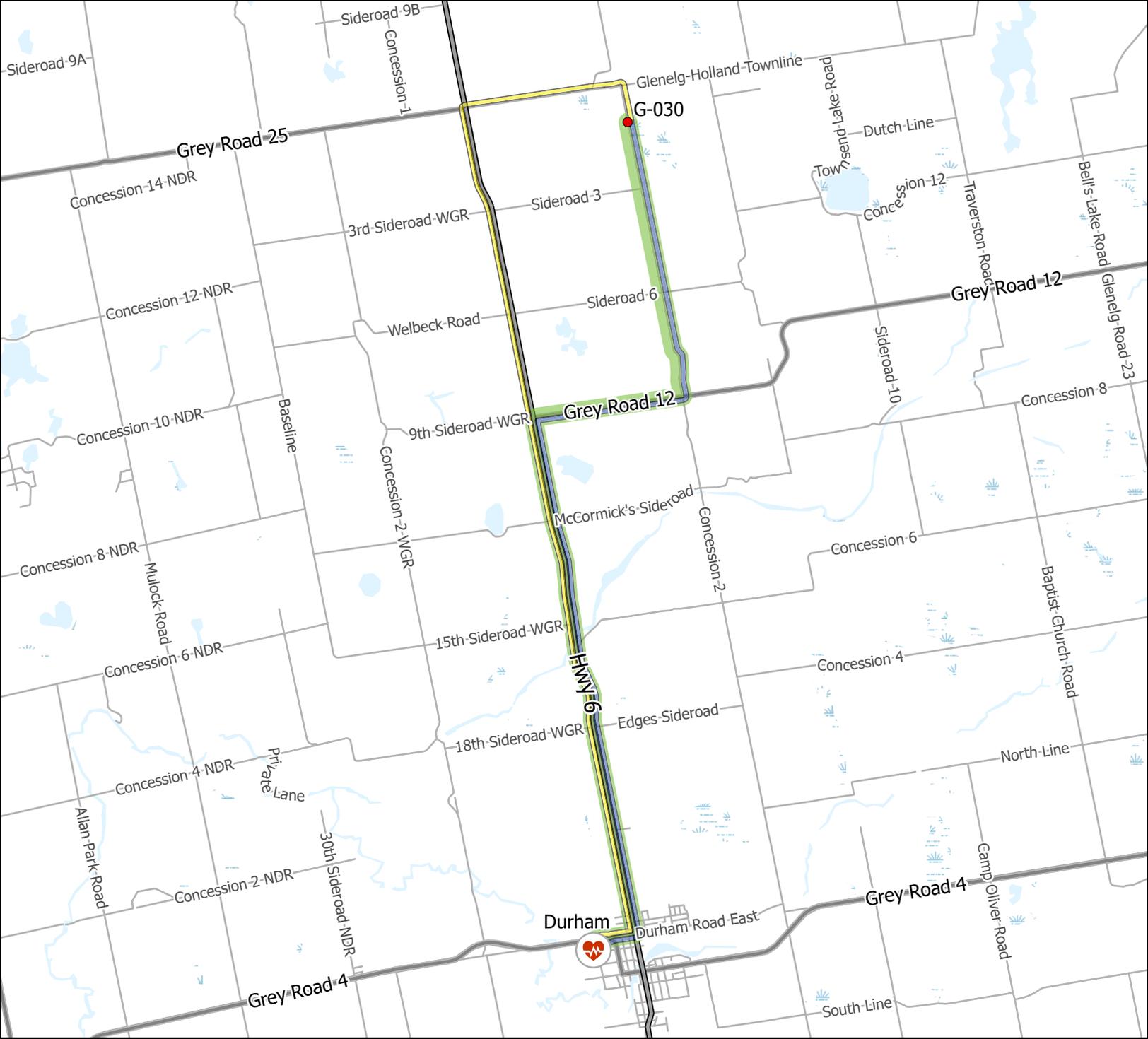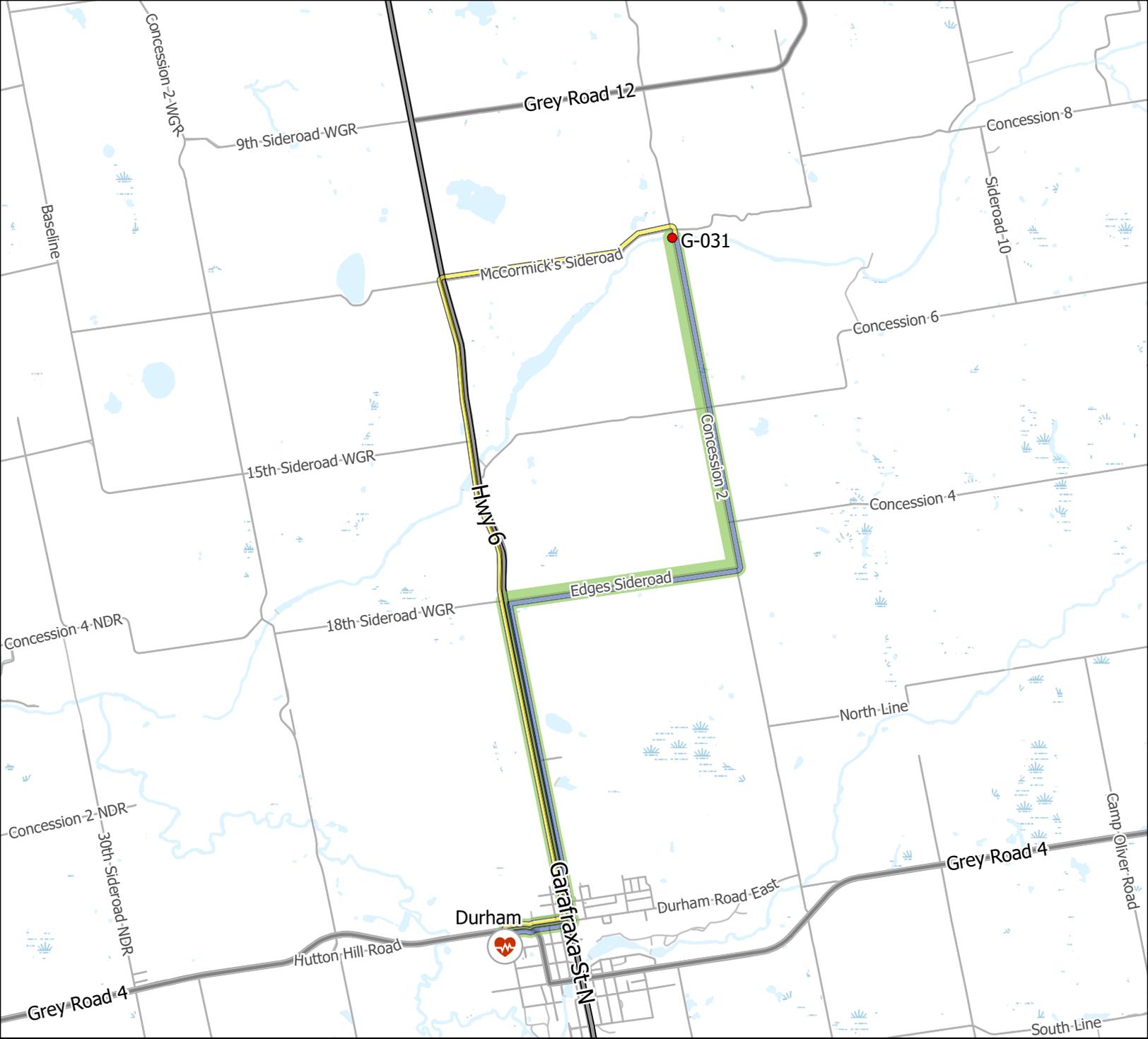0   0.42   0.85   1.7   2.55   3.4
km

N

Structure: B-121

Travel Time Difference: 0.4 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-121 - Chelsey	8.5	9.2	N/W Barrier
B-121 - Chelsey	8.2	8.1	Original
B-121 - Chelsey	8.2	8.1	S/E Barrier

0   0.3   0.6   1.2   1.8   2.4
km

N
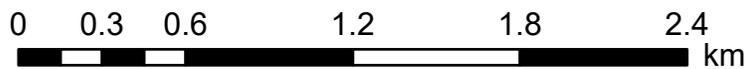
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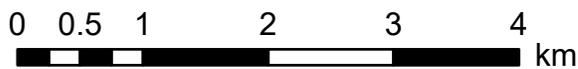Date: October 17, 2024
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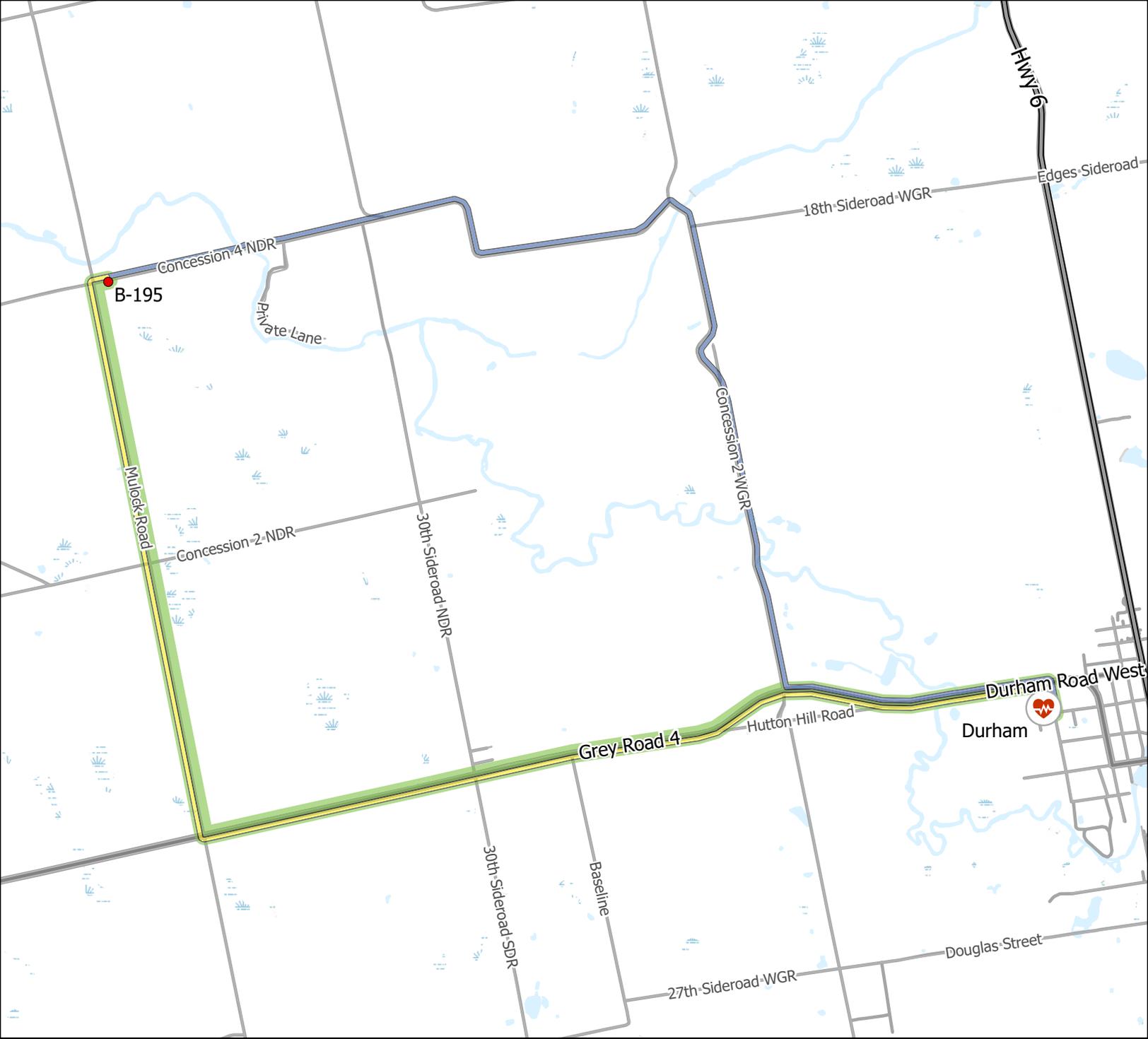
Structure: B-195

Travel Time Difference: 1.9 minutes

- • Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-195 - Durham	10.8	10.7	N/W Barrier
B-195 - Durham	8.9	11	Original
B-195 - Durham	8.9	11	S/E Barrier

0   0.45   0.9   1.8   2.7   3.6
km
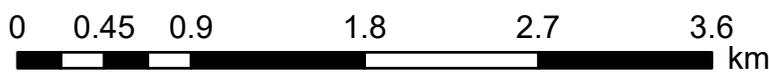
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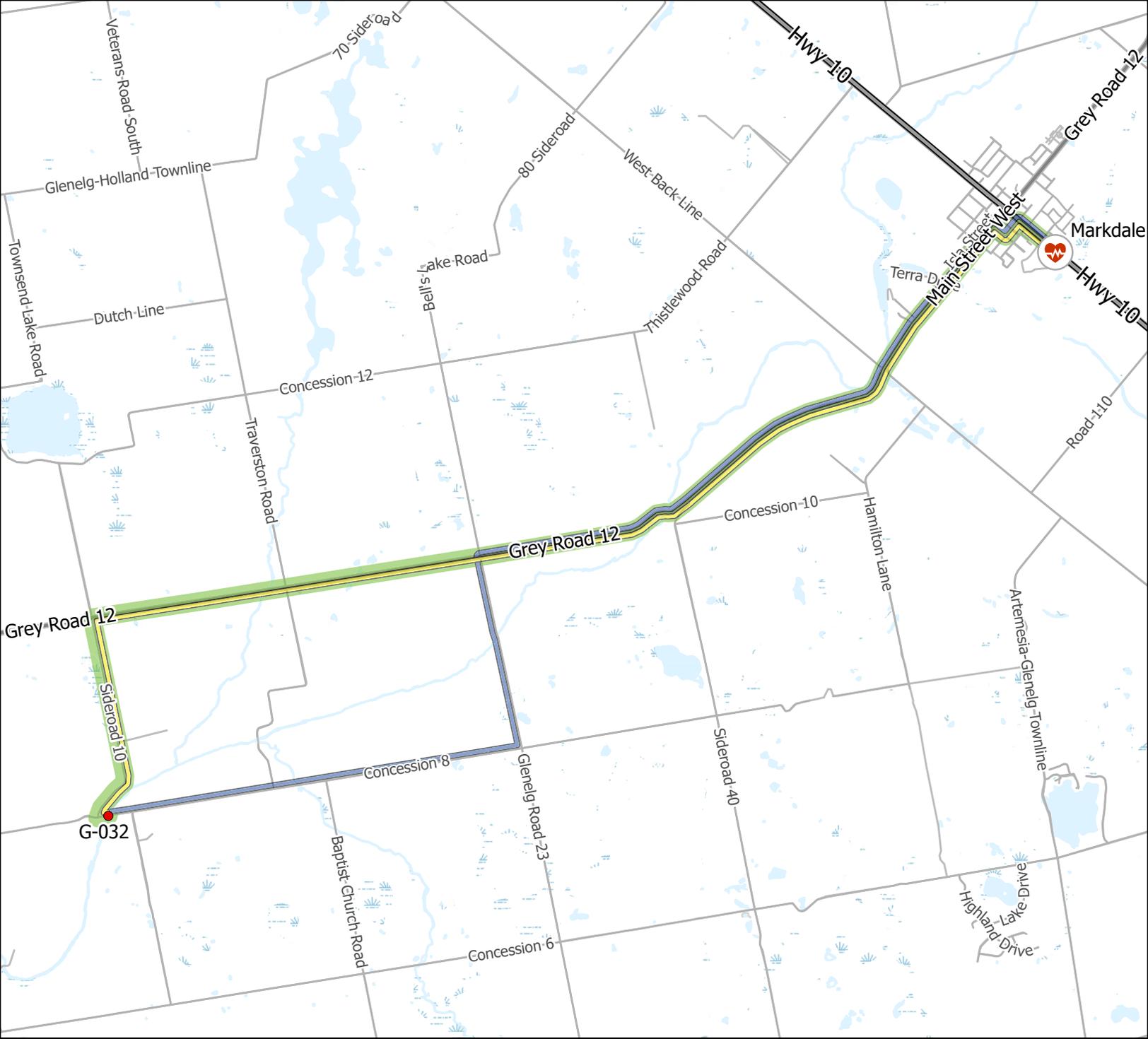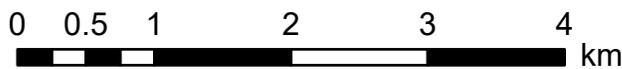NAD83 UTM Zone 17
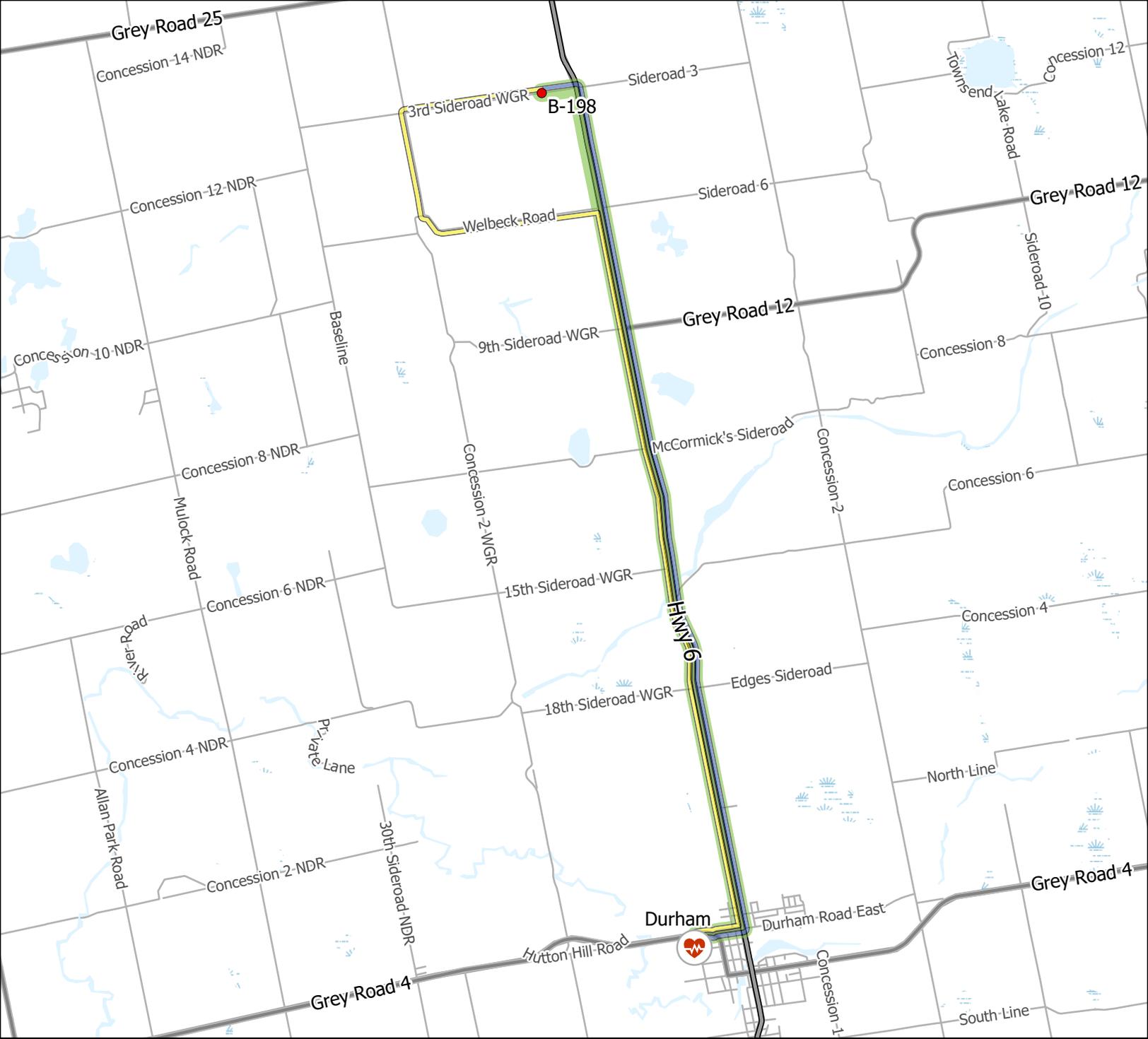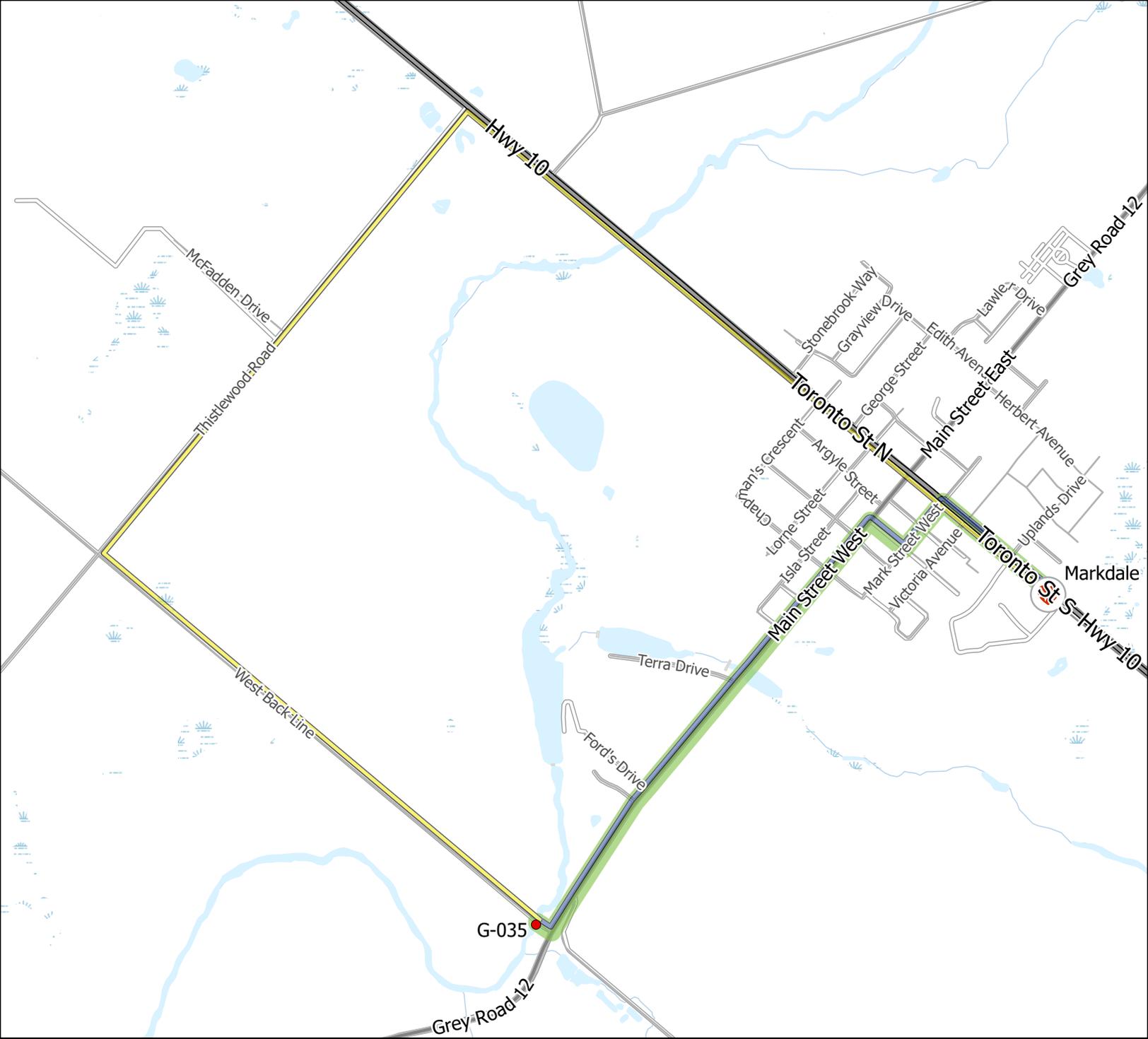
Structure: B-198

Travel Time Difference: 4.5 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
B-198 - Durham	12.4	14.5	N/W Barrier
B-198 - Durham	12.4	14.5	Original
B-198 - Durham	16.9	18.6	S/E Barrier

0 0.75 1.5 3 4.5 6
km

N

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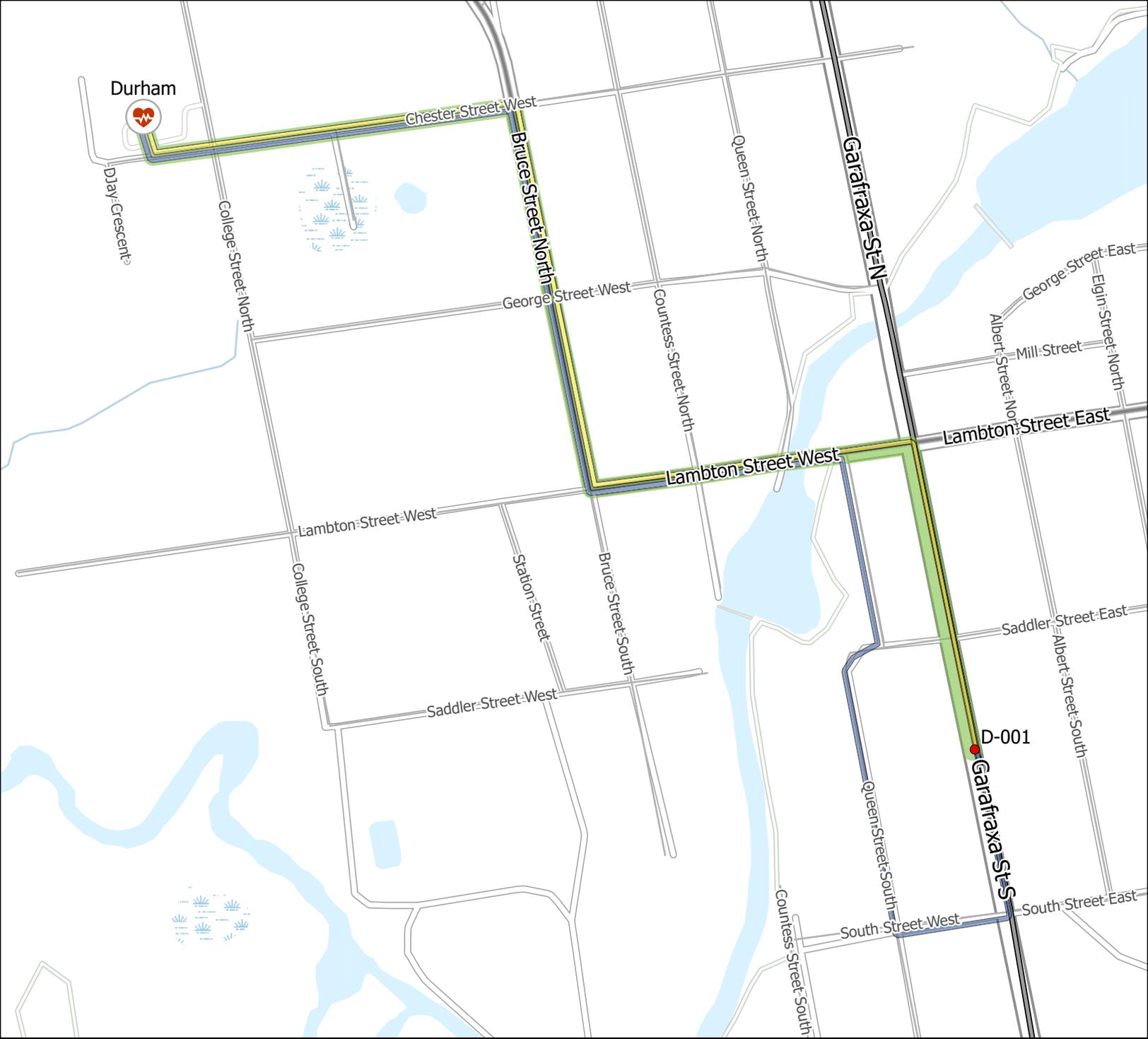
Structure: D-001

Travel Time Difference: 1 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
D-001 - Durham	4	2.1	N/W Barrier
D-001 - Durham	3	1.6	Original
D-001 - Durham	3	1.6	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
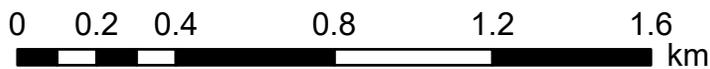- S/E Barrier

0 0.05 0.1   0.2   0.3   0.4
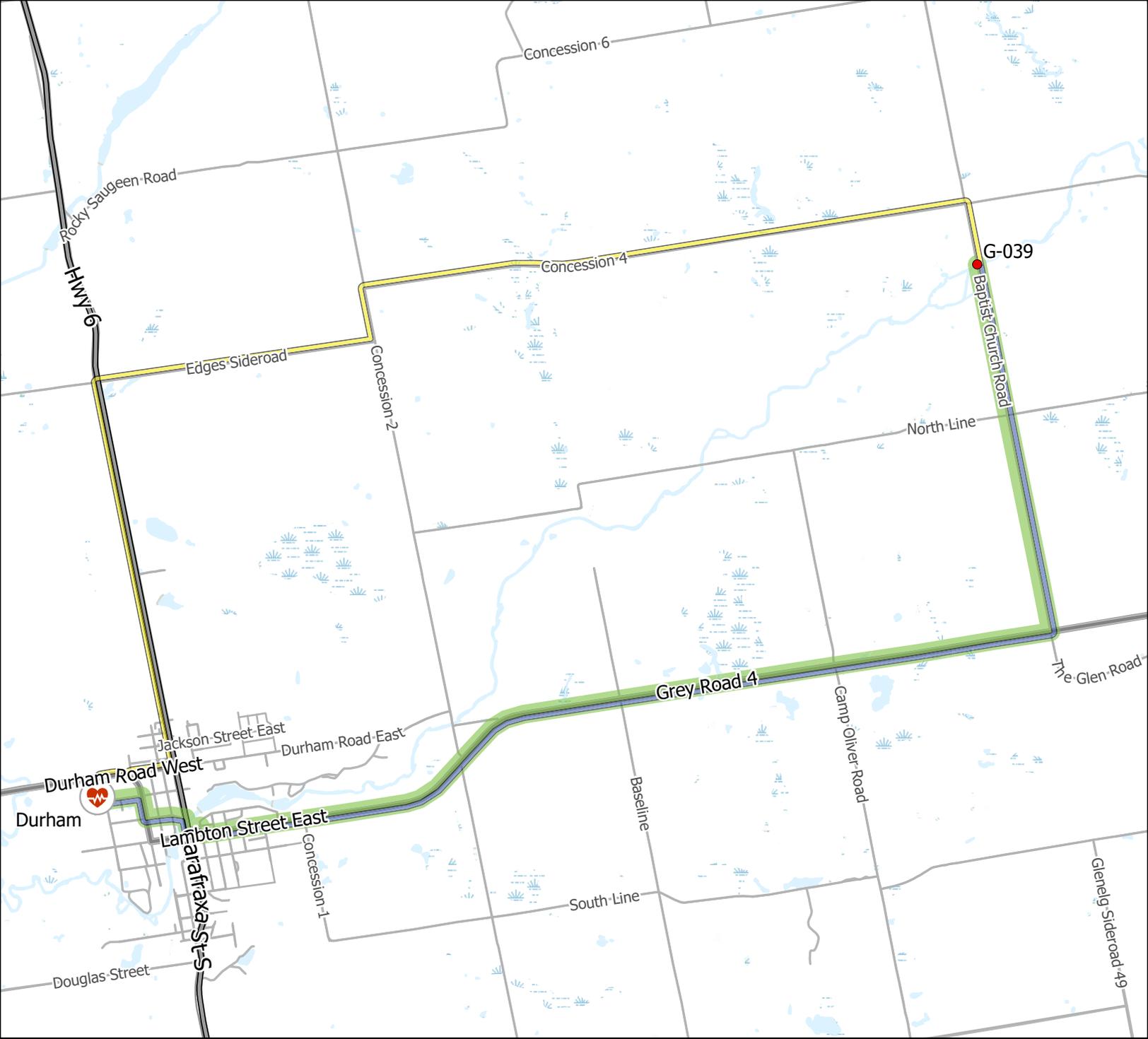km

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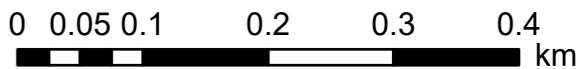
Structure: D-101

Travel Time Difference: 0.7 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
D-101 - Durham	2.8	1.4	N/W Barrier
D-101 - Durham	2.1	1.1	Original
D-101 - Durham	2.1	1.1	S/E Barrier

0   0.05 0.1   0.2   0.3   0.4
km

N
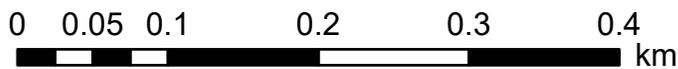
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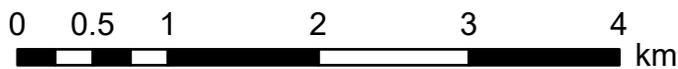Date: October 17, 2024
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Structure: G-030

Travel Time Difference: 0.9 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-030 - Durham	15.4	17.9	N/W Barrier
G-030 - Durham	15.4	17.9	Original
G-030 - Durham	16.2	19.2	S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
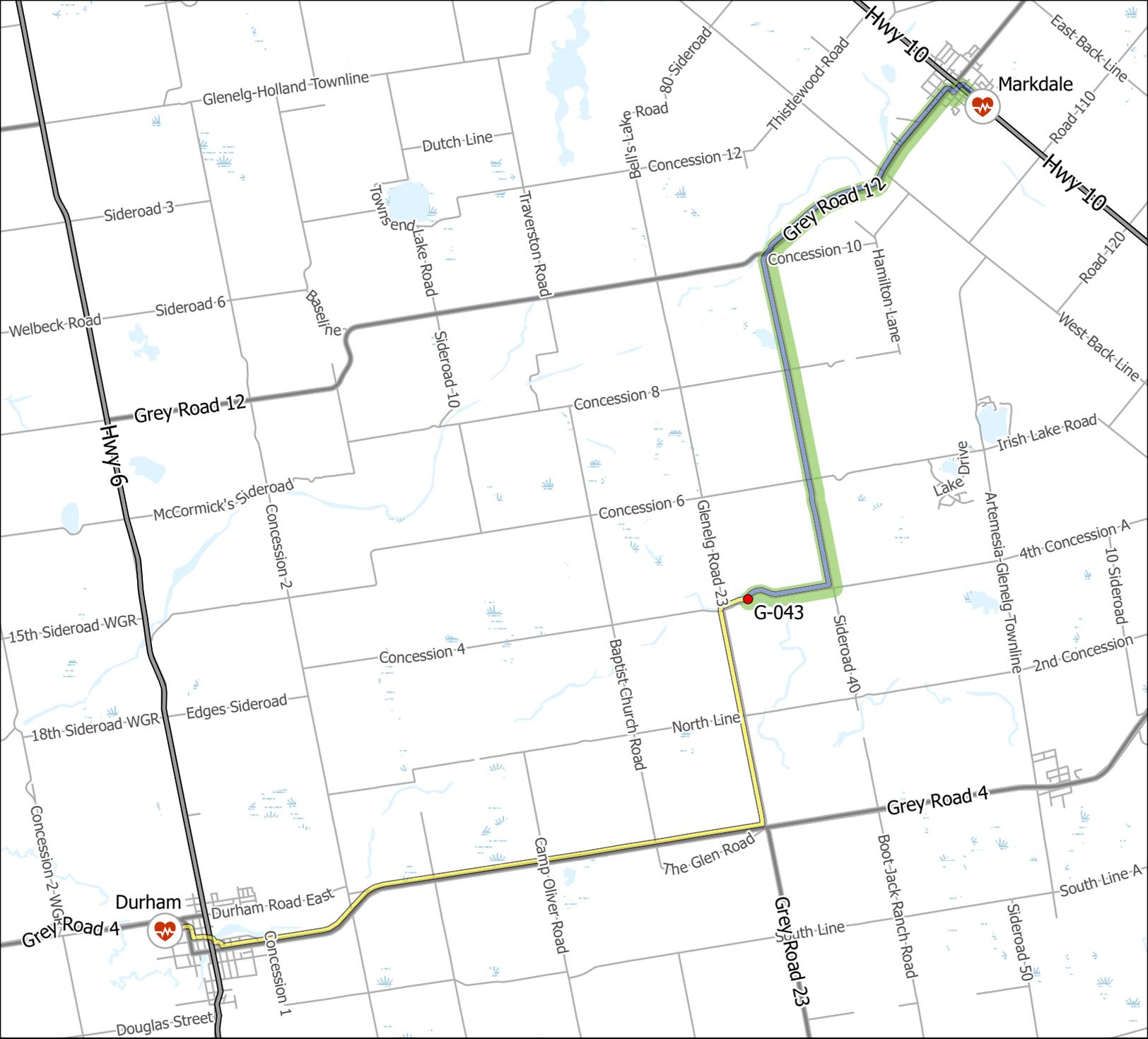NAD83 UTM Zone 17

Structure: G-031

Travel Time Difference: 0.9 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-031 - Durham	10.3	11.2	N/W Barrier
G-031 - Durham	10.3	11.2	Original
G-031 - Durham	11.2	11.2	S/E Barrier

0   0.5   1   2   3   4 km
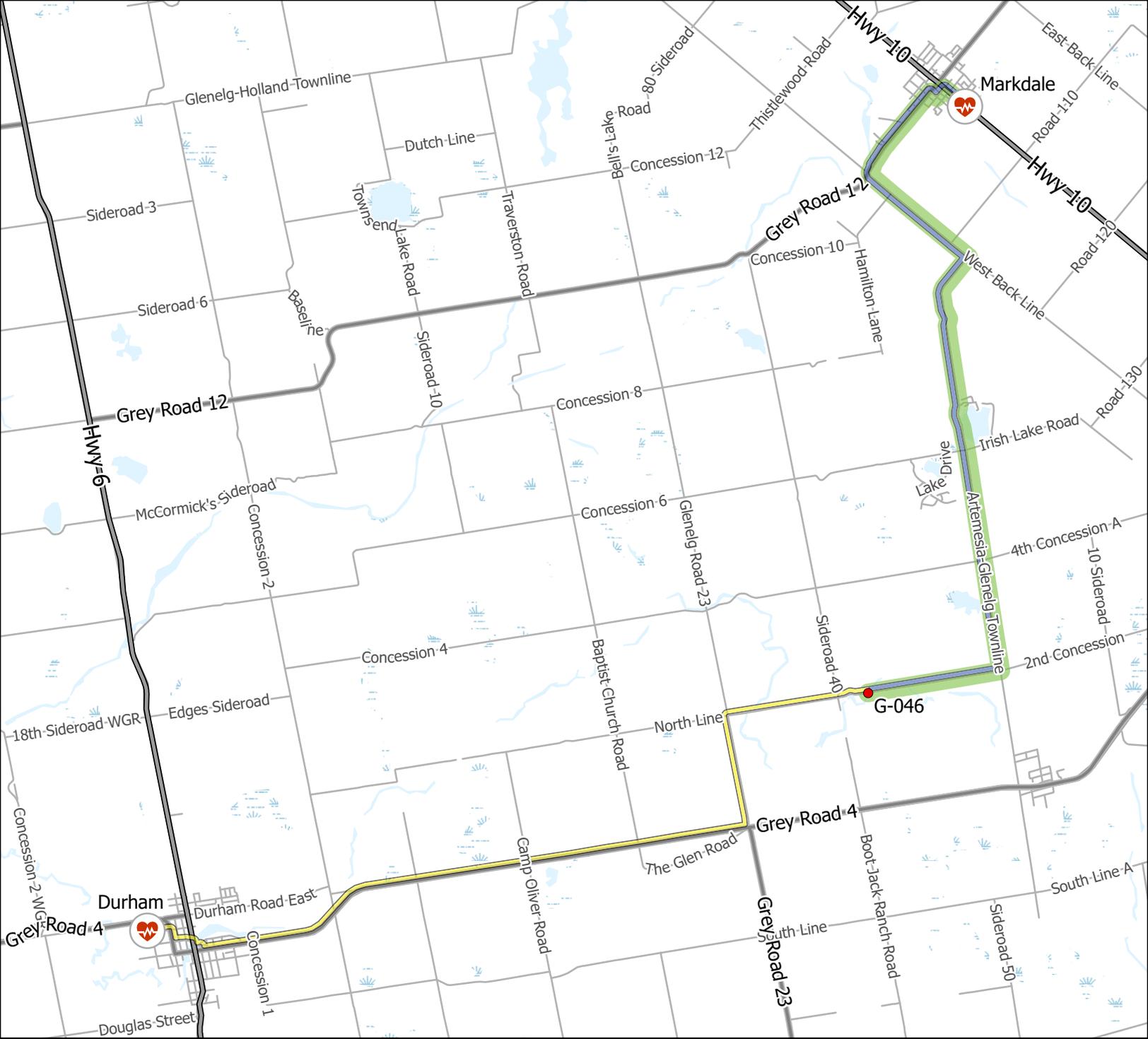
N

Structure: G-032

Travel Time Difference: 0.1 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-032 - Markdale	13.5	13.9	N/W Barrier
G-032 - Markdale	13.5	13.9	Original
G-032 - Markdale	13.5	13.9	S/E Barrier

0   0.5   1   2   3   4
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: G-035

Travel Time Difference: 3.6 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-035 - Markdale	3.7	2.8	N/W Barrier
G-035 - Markdale	3.7	2.8	Original
G-035 - Markdale	7.3	6.8	S/E Barrier

Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

0   0.2   0.4   0.8   1.2   1.6
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17
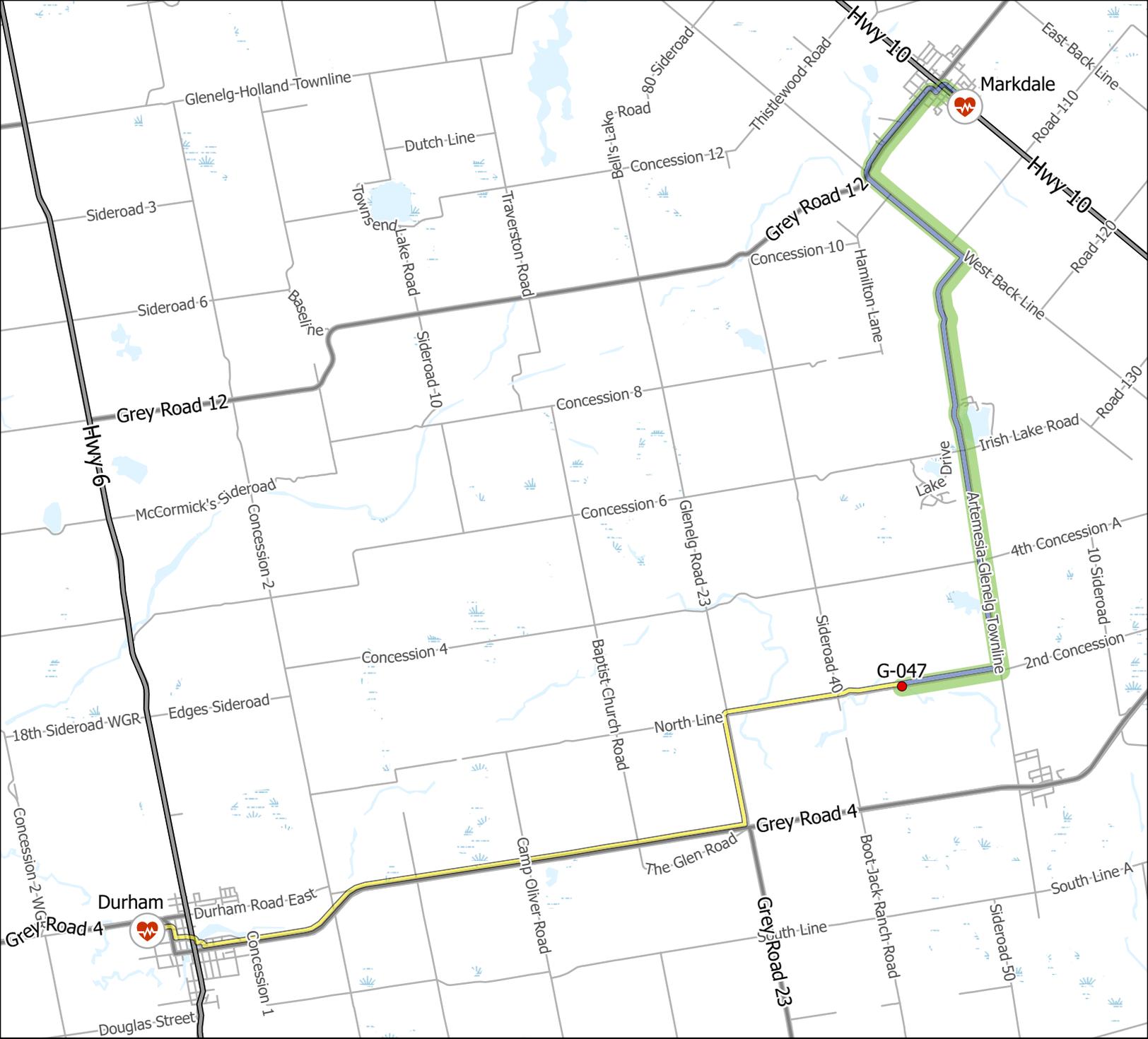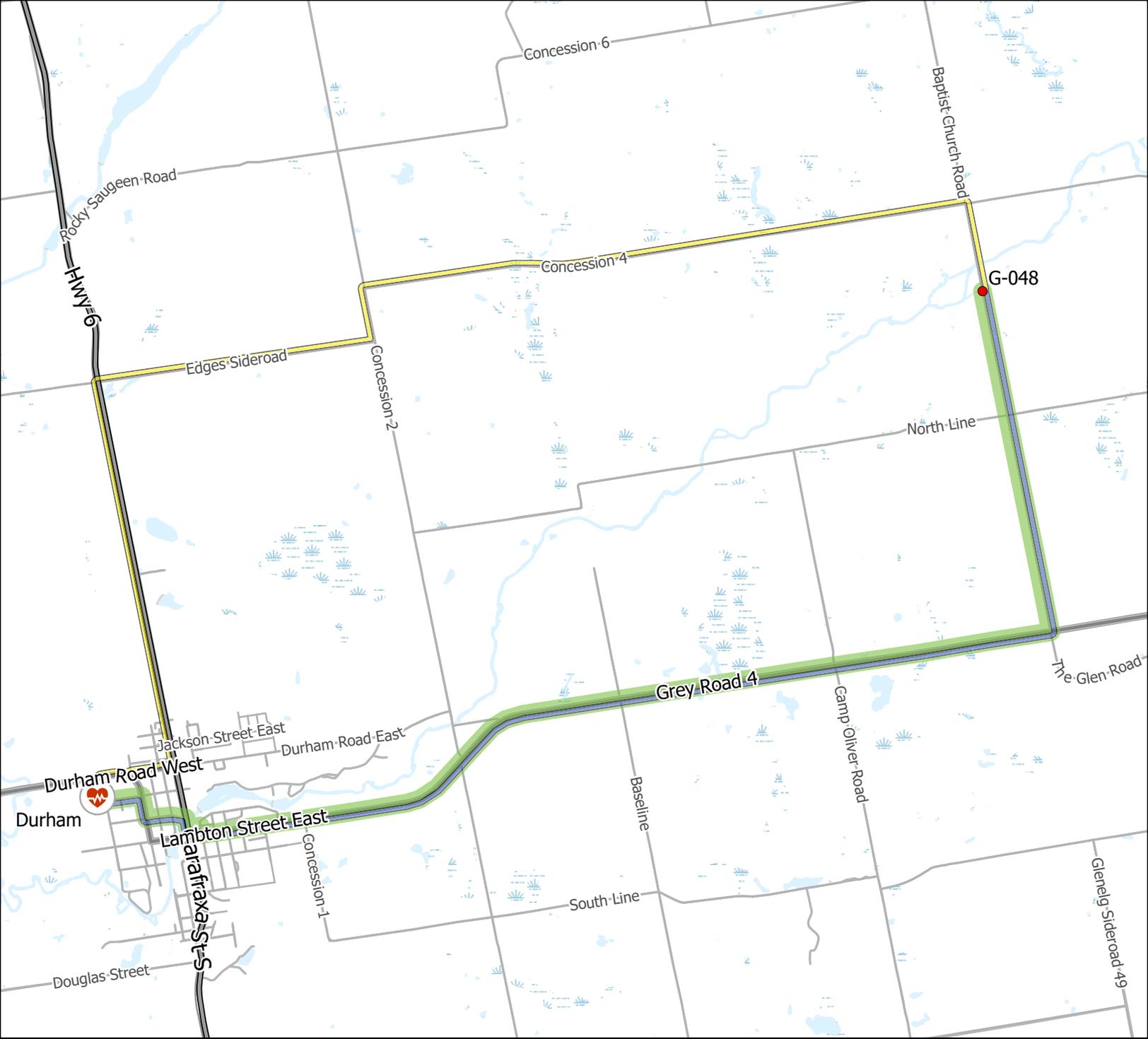
Structure: G-039

Travel Time Difference: 0.7 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-039 - Durham	12.1	13.3	N/W Barrier
G-039 - Durham	12.1	13.3	Original
G-039 - Durham	12.8	14.2	S/E Barrier

0 0.5 1 2 3 4 km

N

Structure: G-043

Travel Time Difference: 1.5 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-043 - Markdale	13.3	13.3	N/W Barrier
G-043 - Markdale	13.3	13.3	Original
G-043 - Durham	14.7	16.3	S/E Barrier

● Structure
♥ Hospital
▬ Original (Fastest)
▬ N/W Barrier
▬ S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
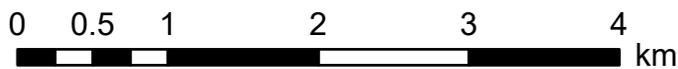Date: October 17, 2024
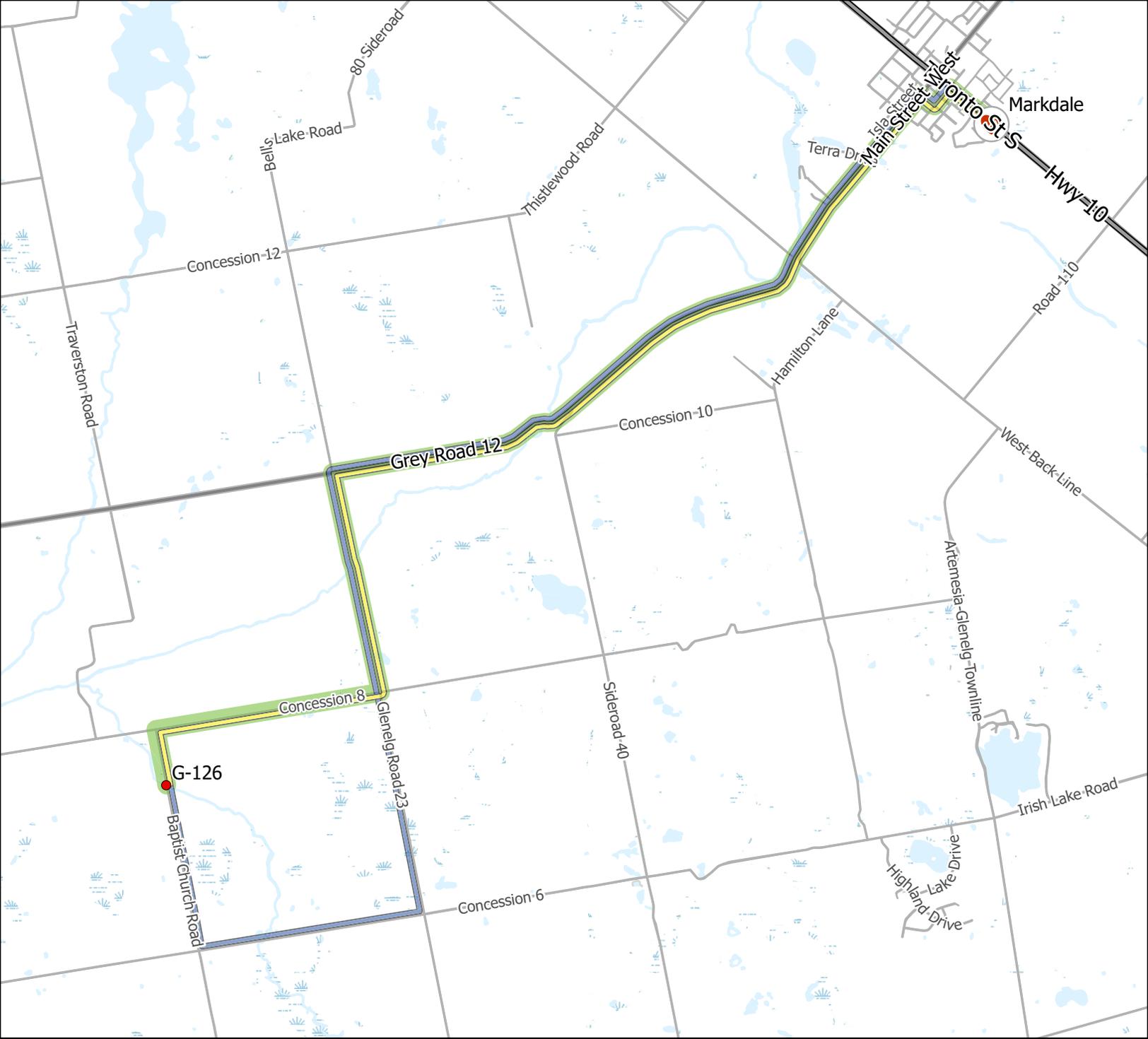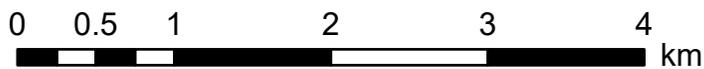NAD83 UTM Zone 17

Structure: G-045

Travel Time Difference: 5 minutes
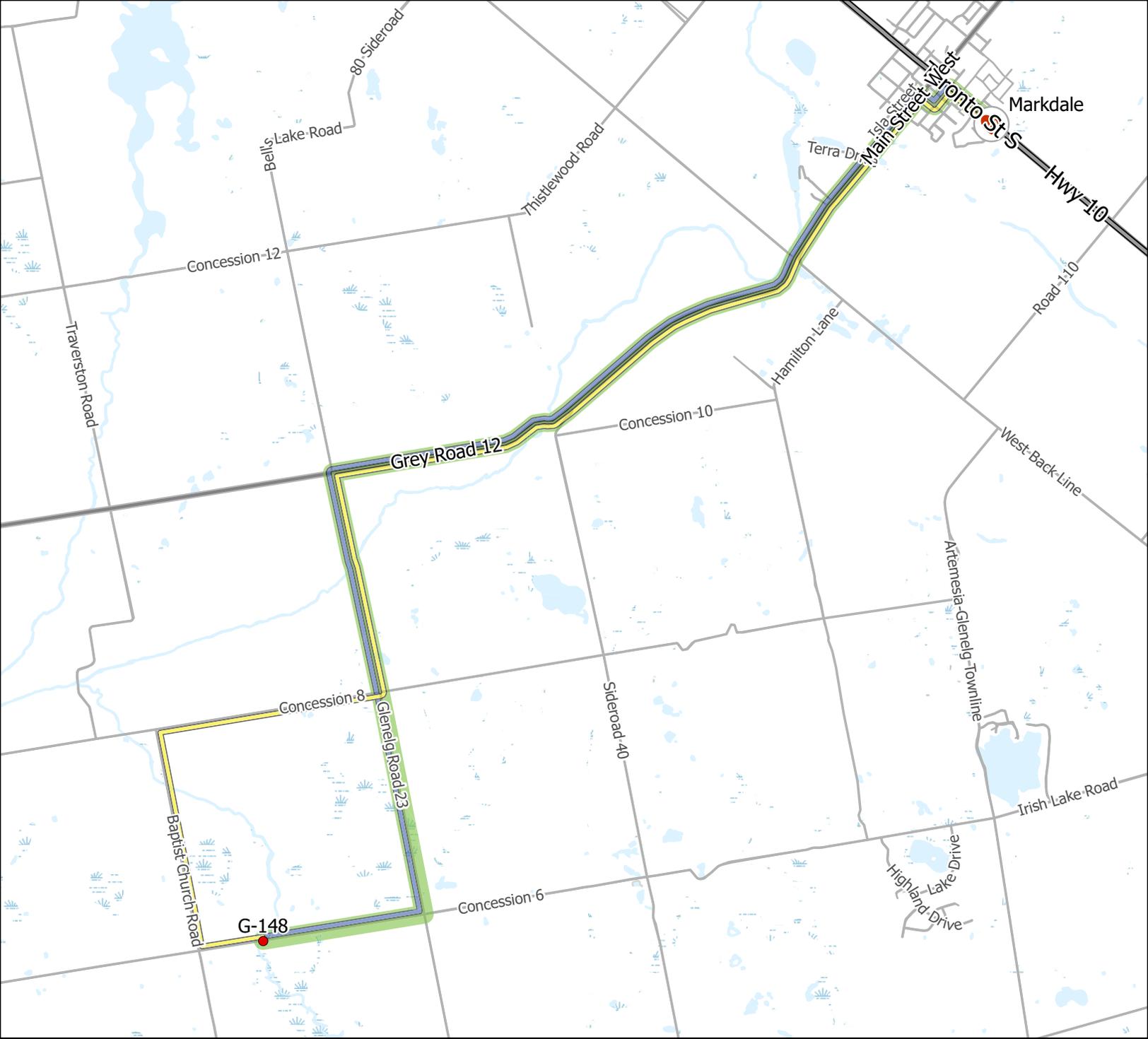
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-045 - Markdale	18.4	15.2	N/W Barrier
G-045 - Durham	13.4	14.5	Original
G-045 - Durham	13.4	14.5	S/E Barrier

0 1 2 4 6 8 km

N

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Structure: G-046

Travel Time Difference: 0.8 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-046 - Markdale	15.2	15.4	N/W Barrier
G-046 - Markdale	15.2	15.4	Original
G-046 - Durham	15.9	16.5	S/E Barrier

Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: G-047

Travel Time Difference: 2.5 minutes

- • **Structure**
- ♥ **Hospital**
- ▬ **Original (Fastest)**
- ▬ **N/W Barrier**
- ▬ **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-047 - Markdale	14.3	14.8	N/W Barrier
G-047 - Markdale	14.3	14.8	Original
G-047 - Durham	16.8	17.1	S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
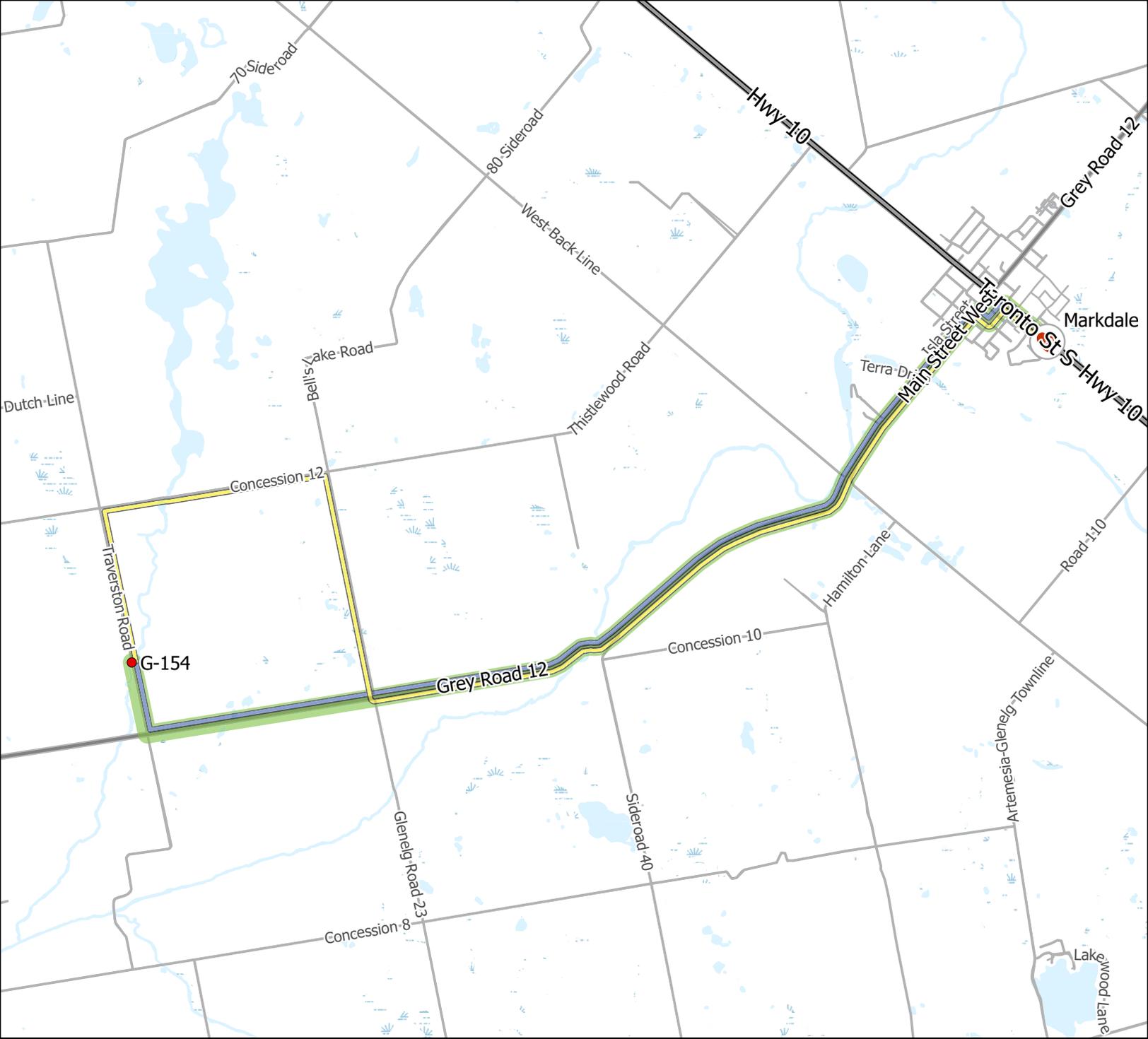NAD83 UTM Zone 17

Structure: G-048

Travel Time Difference: 1 minutes

- **Structure**
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-048 - Durham	11.9	13	N/W Barrier
G-048 - Durham	11.9	13	Original
G-048 - Durham	13	14.4	S/E Barrier

0   0.5   1   2   3   4 km

N

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Date: October 17, 2024
NAD83 UTM Zone 17

Structure: G-126

Travel Time Difference: 2.2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-126 - Markdale	13.9	15.2	N/W Barrier
G-126 - Markdale	11.7	12.1	Original
G-126 - Markdale	11.7	12.1	S/E Barrier

- **Structure**
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

0   0.5   1   2   3   4 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: G-148

Travel Time Difference: 1.7 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-148 - Markdale	11.9	13.1	N/W Barrier
G-148 - Markdale	11.9	13.1	Original
G-148 - Markdale	13.6	14.2	S/E Barrier

- ● Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.5 1 2 3 4 km

N

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Date: October 17, 2024
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Structure: G-154

Travel Time Difference: 3.9 minutes

- **Structure** (red dot)
- **Hospital**
- **Original (Fastest)** (green)
- **N/W Barrier** (blue)
- **S/E Barrier** (yellow)

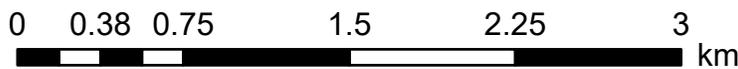| Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-154 - Markdale	9.5	10.2	N/W Barrier
G-154 - Markdale	9.5	10.2	Original
G-154 - Markdale	13.3	13	S/E Barrier

0   0.5   1   2   3   4   km
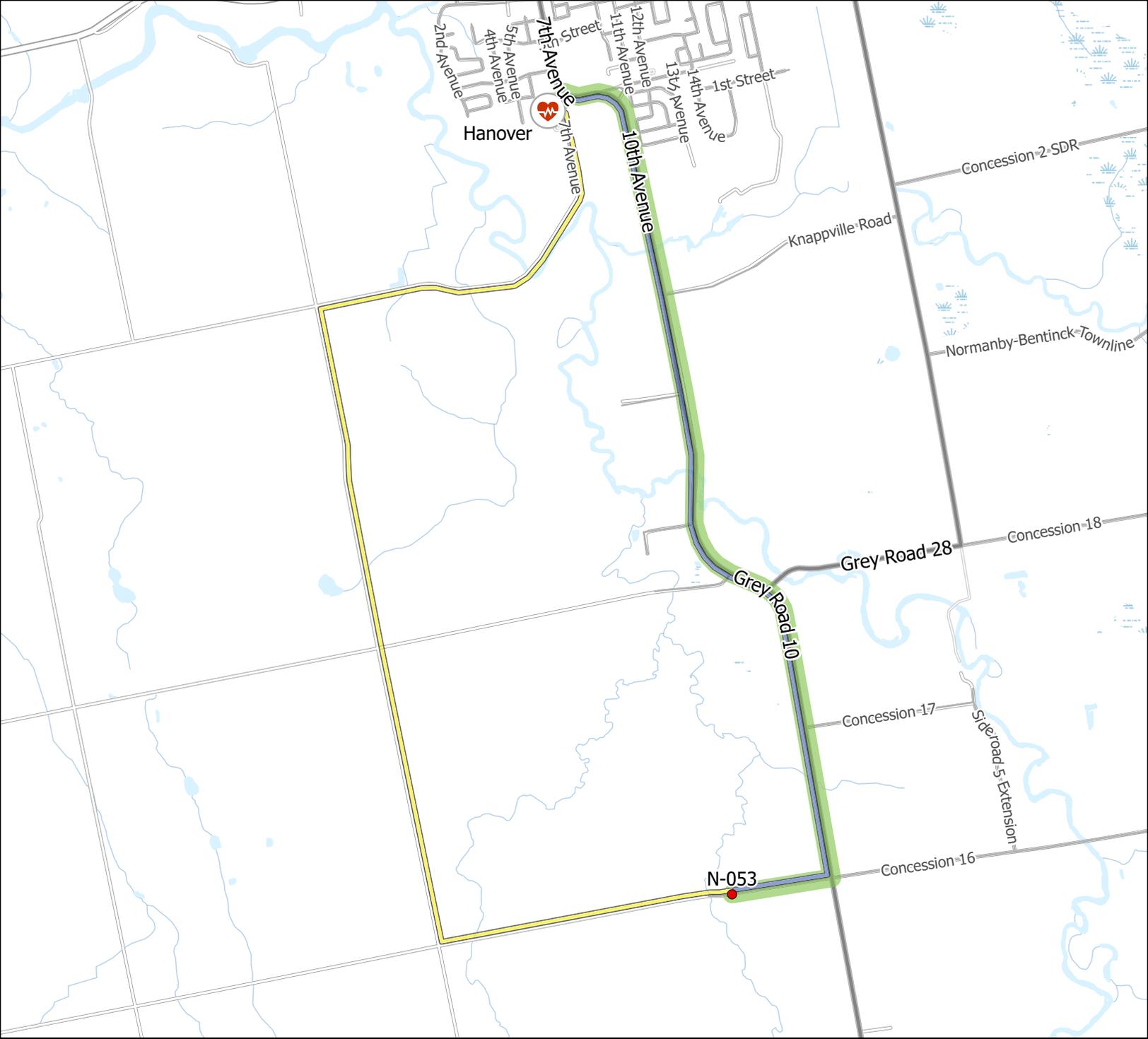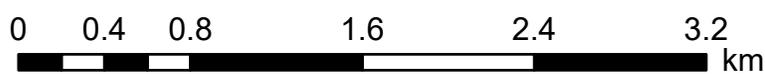
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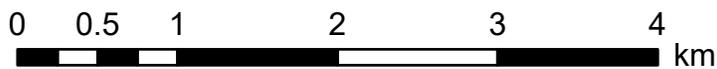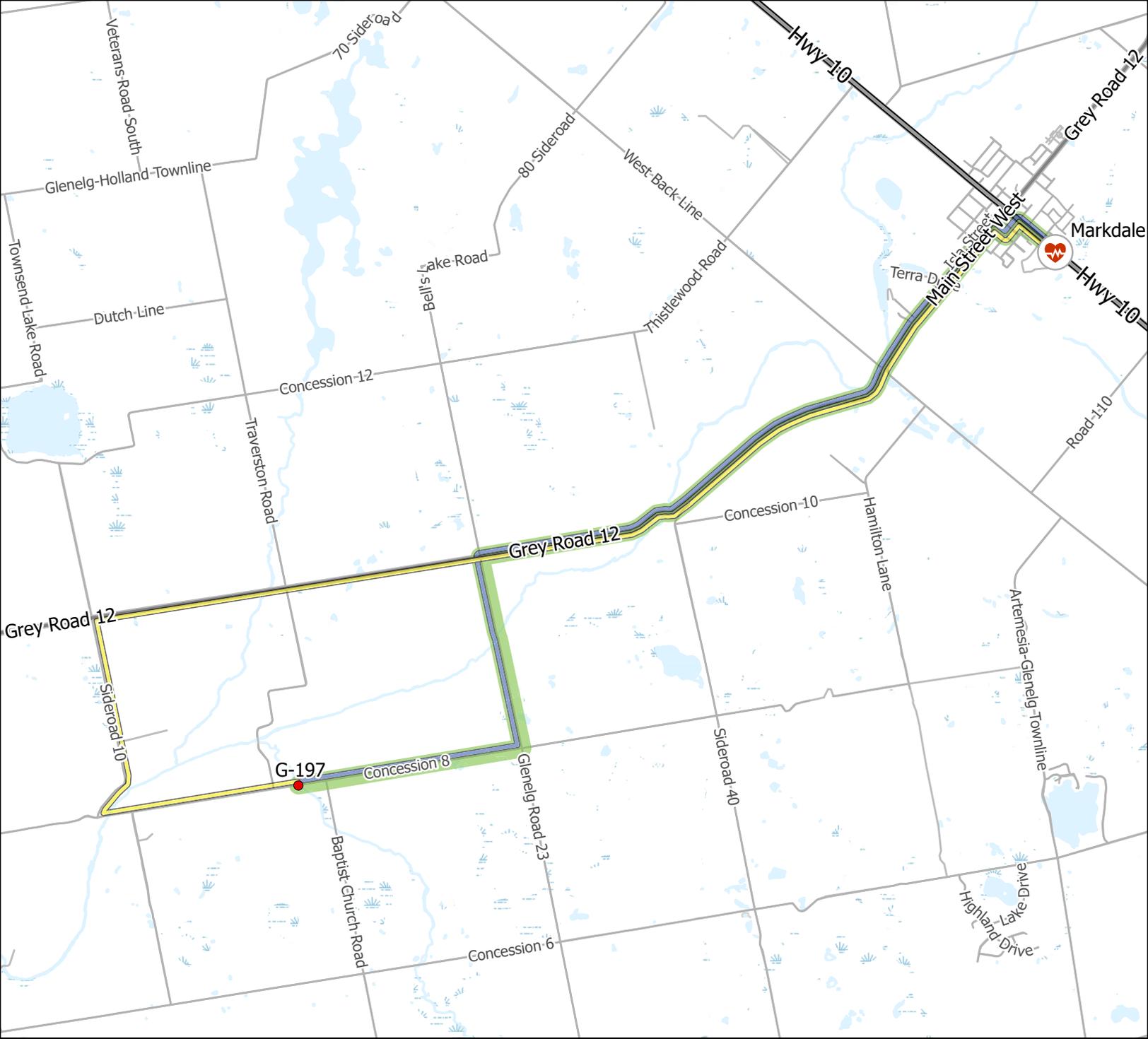
Structure: G-197

Travel Time Difference: 4.1 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
G-197 - Markdale	11.4	11.9	N/W Barrier
G-197 - Markdale	11.4	11.9	Original
G-197 - Markdale	15.5	15.9	S/E Barrier

0 0.5 1 2 3 4 km

N

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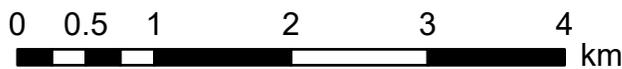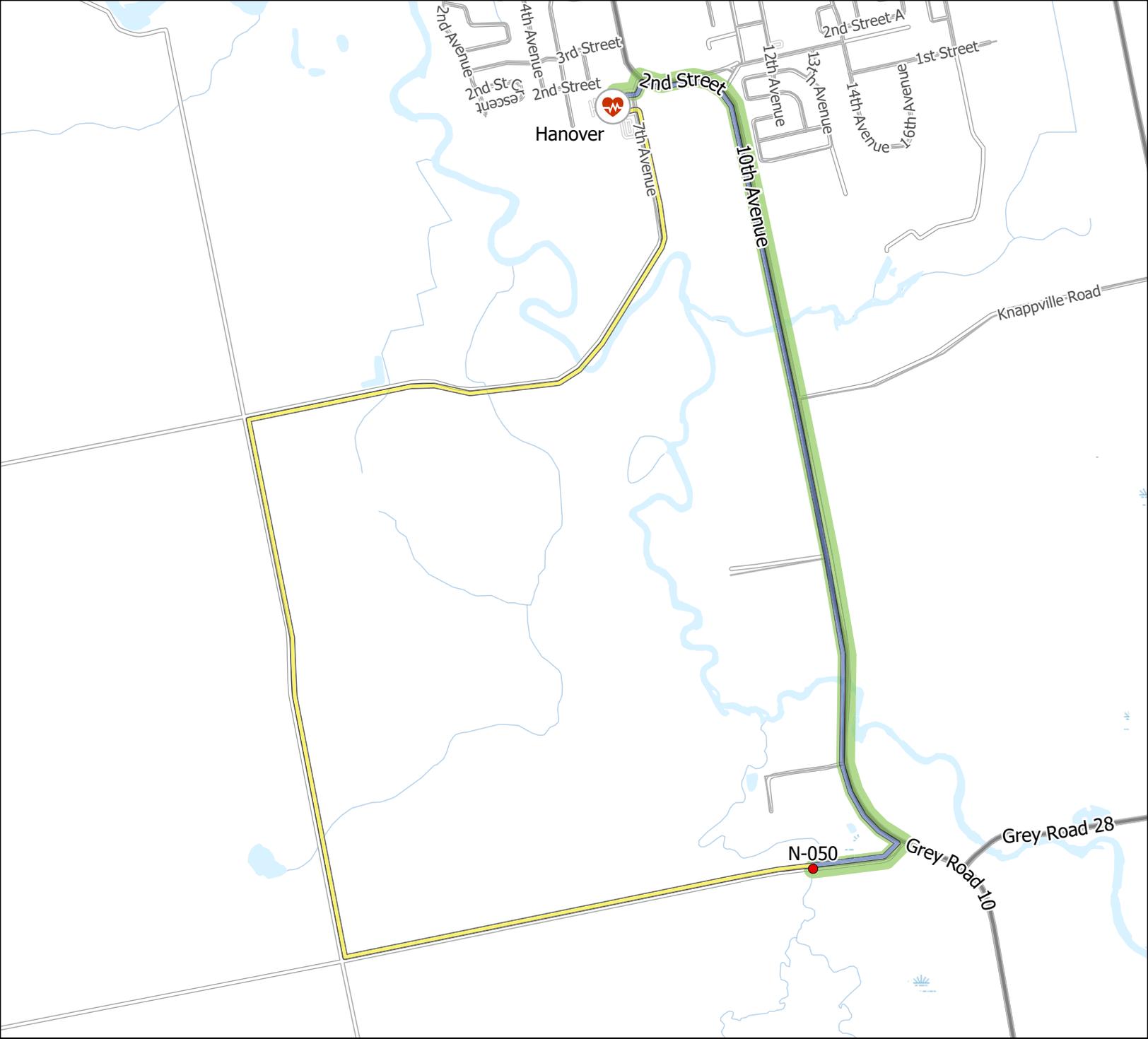
Structure: N-050

Travel Time Difference: 1.9 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-050 - Hanover	4.7	4.3	N/W Barrier
N-050 - Hanover	4.7	4.3	Original
N-050 - Hanover	6.6	7	S/E Barrier

- ● Structure
- Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

0   0.25   0.5   1   1.5   2   km

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Date: October 17, 2024
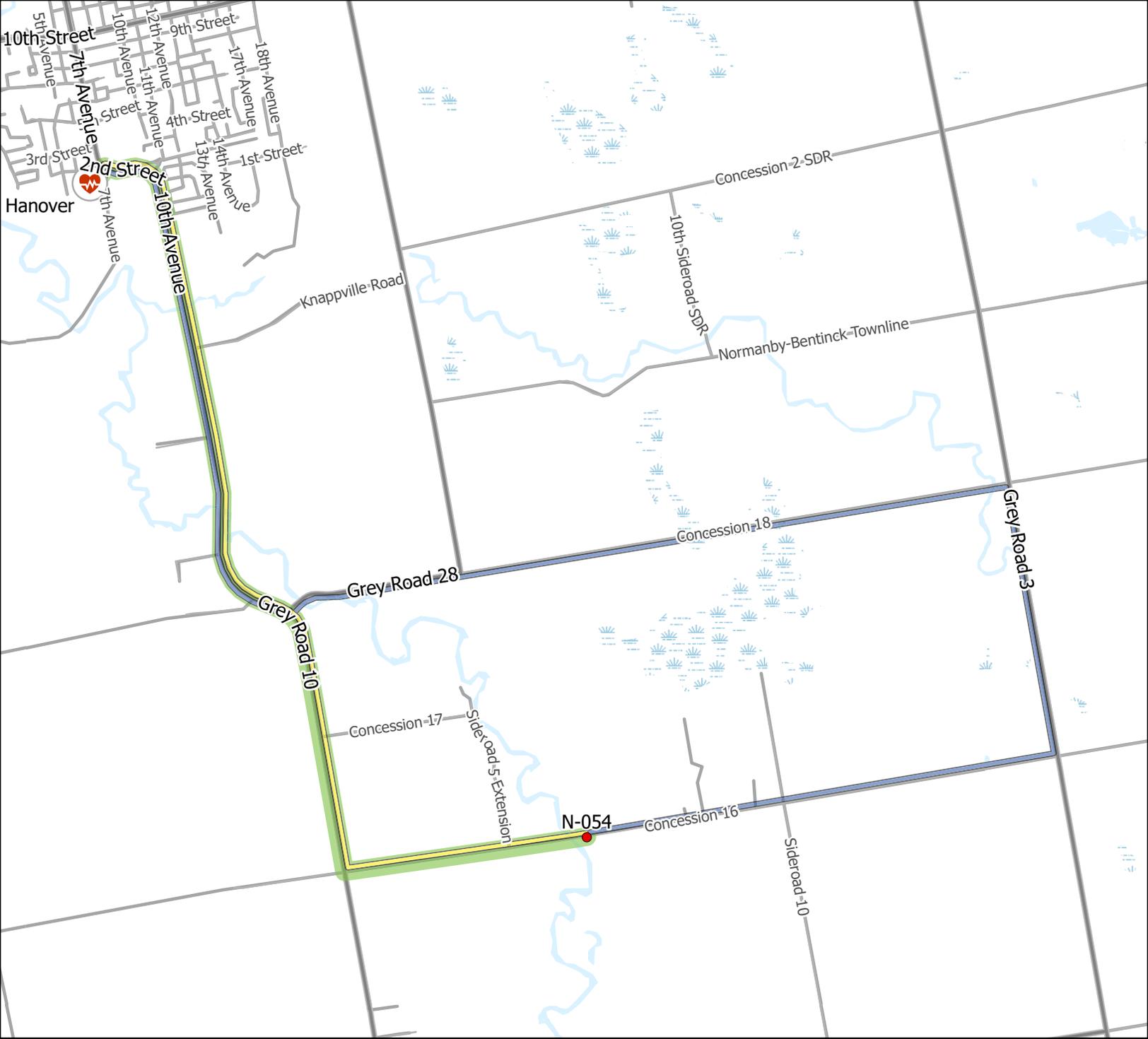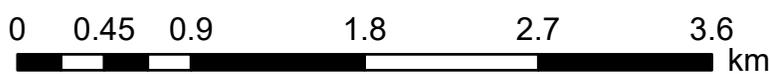NAD83 UTM Zone 17
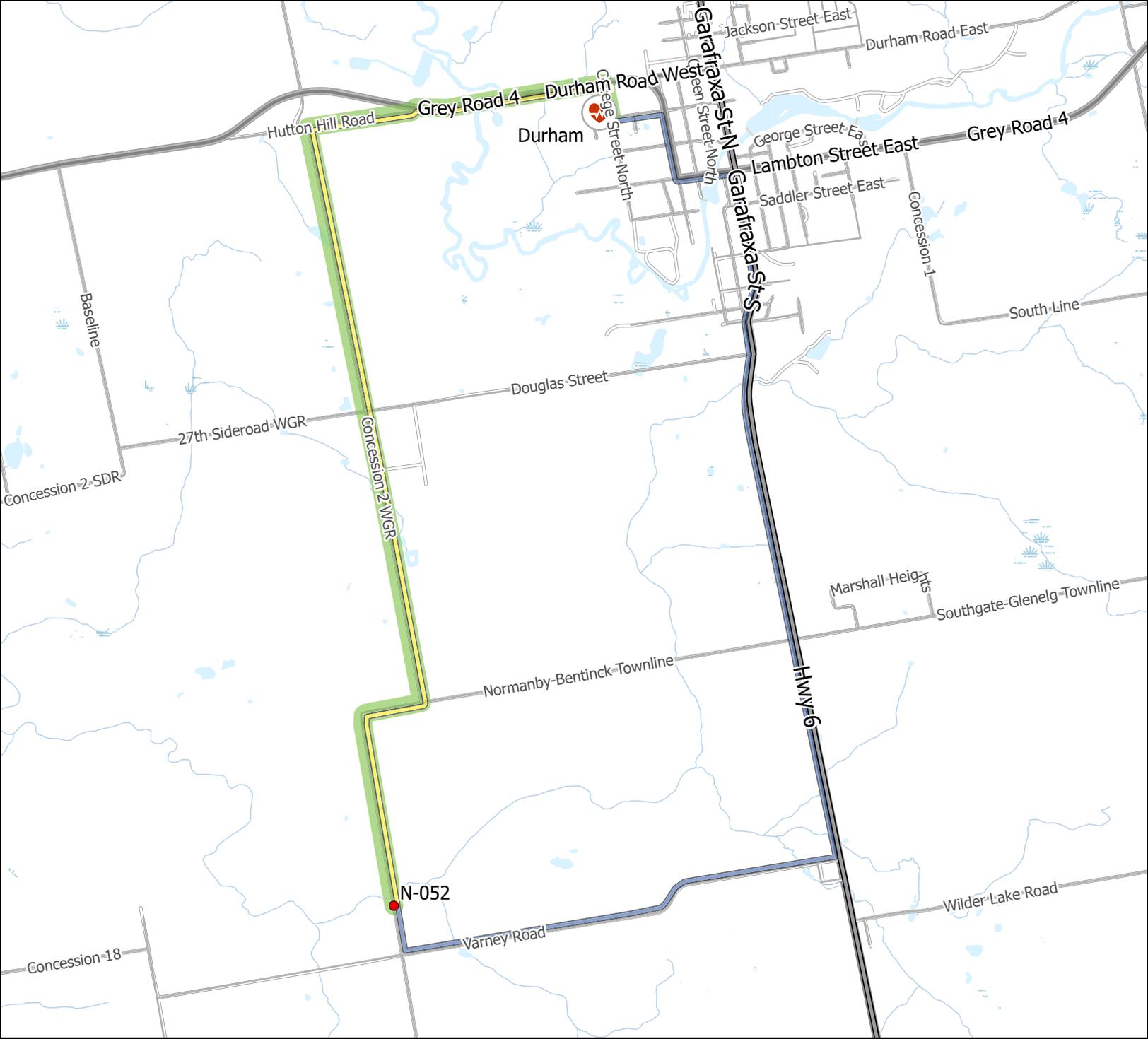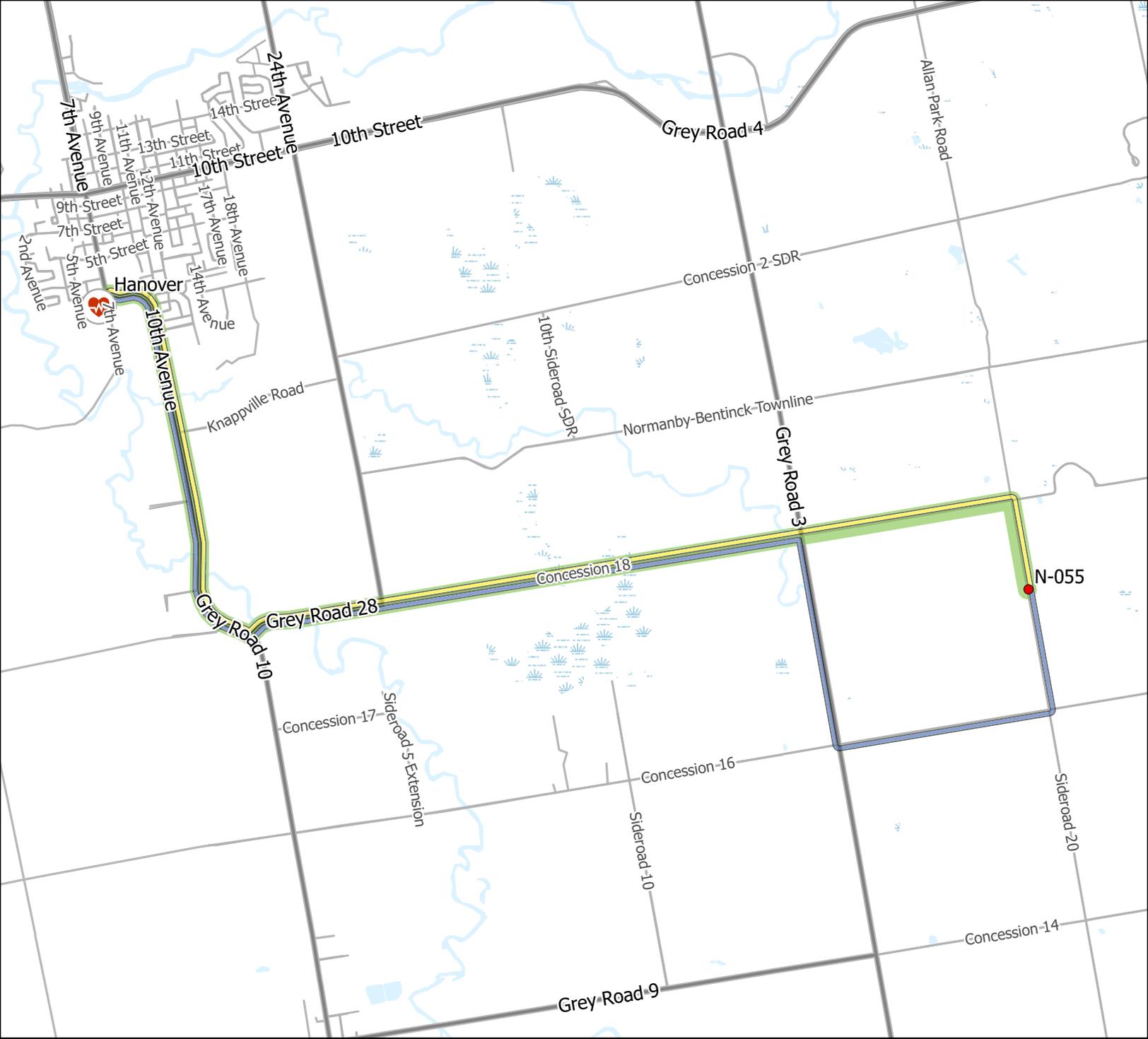
Structure: N-052

Travel Time Difference: 2.3 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-052 - Durham	9.8	9	N/W Barrier
N-052 - Durham	7.4	7.7	Original
N-052 - Durham	7.4	7.7	S/E Barrier

0   0.38   0.75   1.5   2.25   3
km

Structure: N-053

Travel Time Difference: 1.6 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-053 - Hanover	6.6	6.8	N/W Barrier
N-053 - Hanover	6.6	6.8	Original
N-053 - Hanover	8.2	9	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
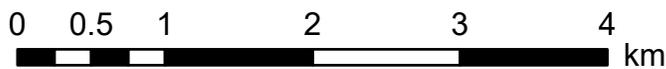- S/E Barrier

0 0.4 0.8 1.6 2.4 3.2 km
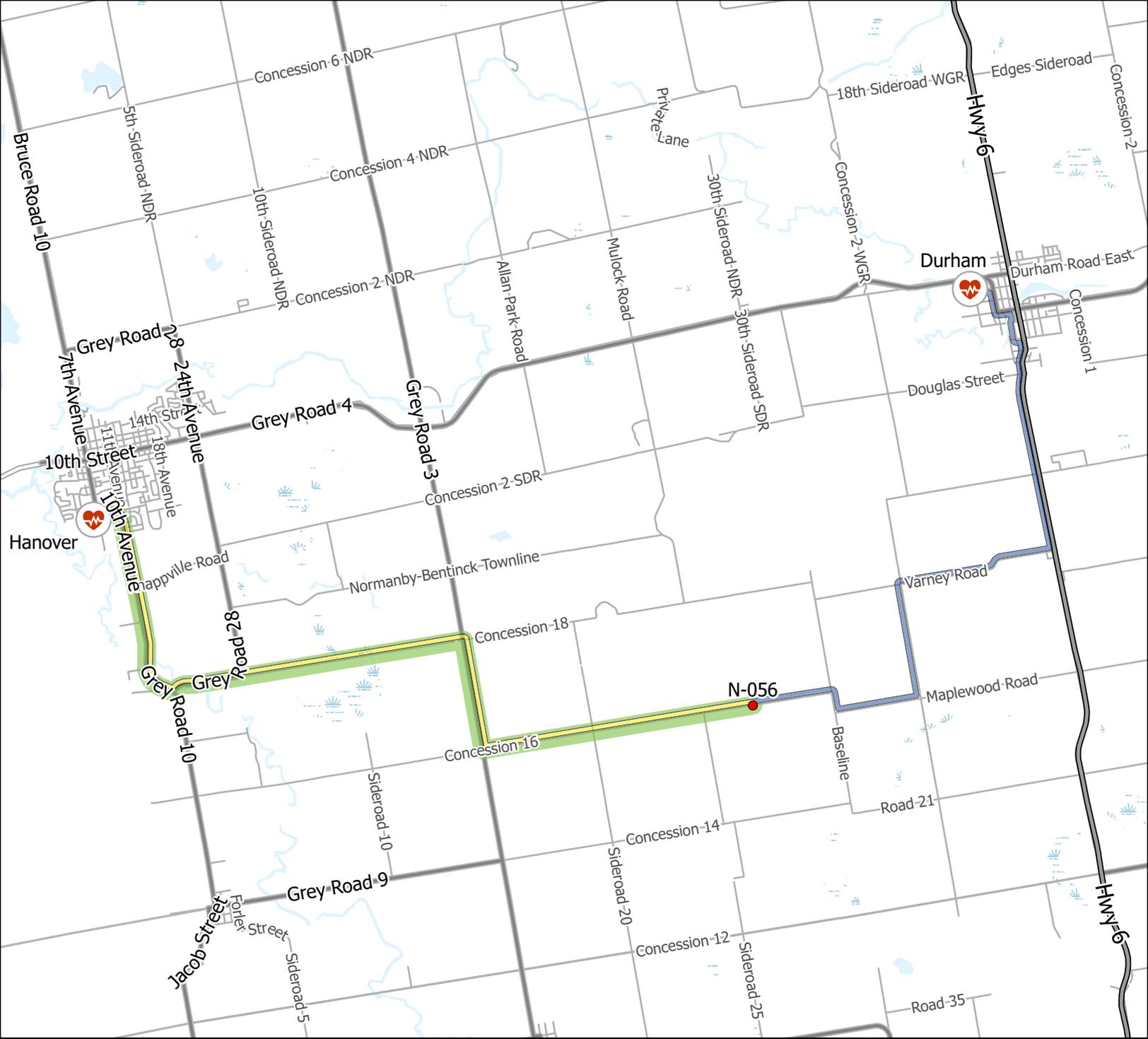
N

Structure: N-054

Travel Time Difference: 5.6 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-054 - Hanover	12.9	15.1	N/W Barrier
N-054 - Hanover	7.3	7.9	Original
N-054 - Hanover	7.3	7.9	S/E Barrier

0   0.45   0.9   1.8   2.7   3.6
km

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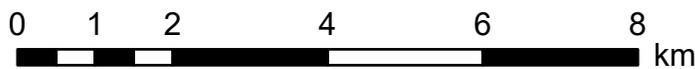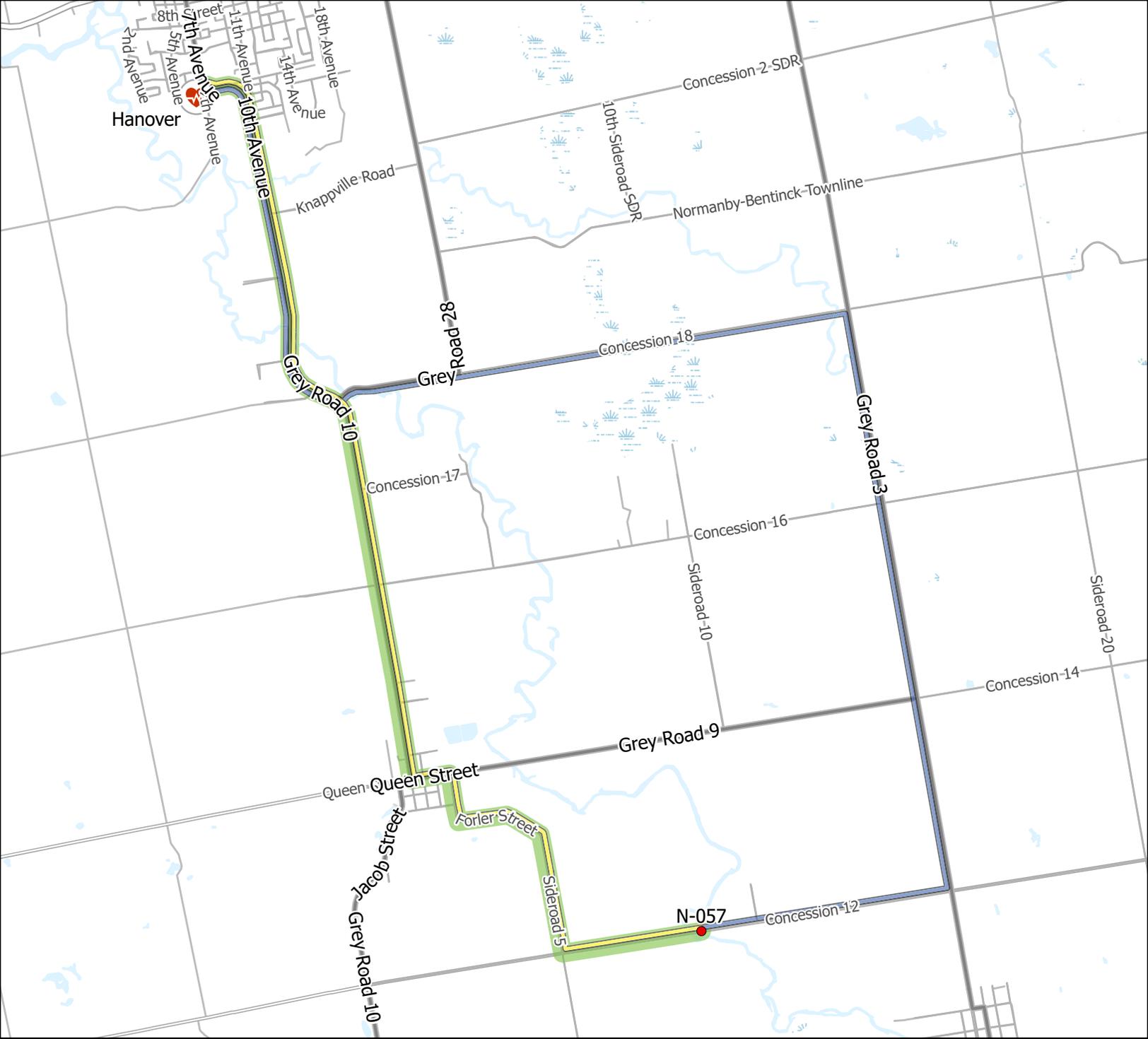
Structure: N-055

Travel Time Difference: 1.9 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-055 - Hanover	13.5	14.8	N/W Barrier
N-055 - Hanover	11.6	12.5	Original
N-055 - Hanover	11.6	12.5	S/E Barrier

0   0.5   1   2   3   4
km

N

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NAD83 UTM Zone 17

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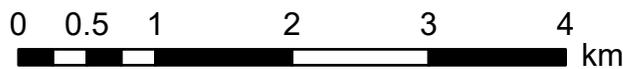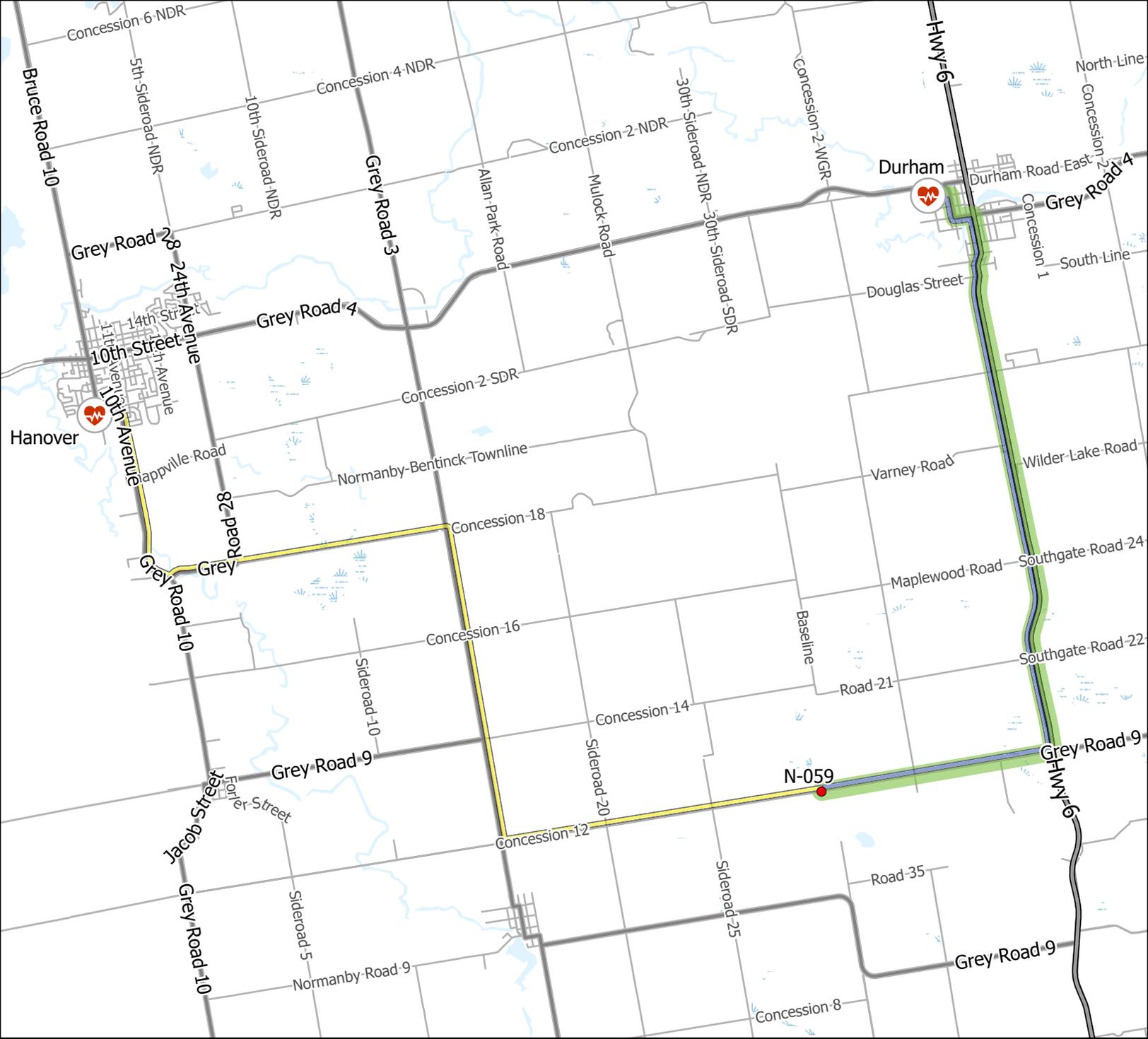
Structure: N-056

Travel Time Difference: 0.8 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-056 - Durham	15.3	14.3	N/W Barrier
N-056 - Hanover	14.6	16.6	Original
N-056 - Hanover	14.6	16.6	S/E Barrier

0 1 2 4 6 8
km

Created by: Grey County GIS
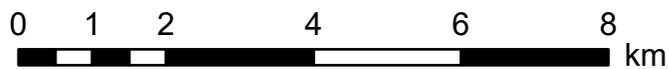Date: October 17, 2024
NAD83 UTM Zone 17
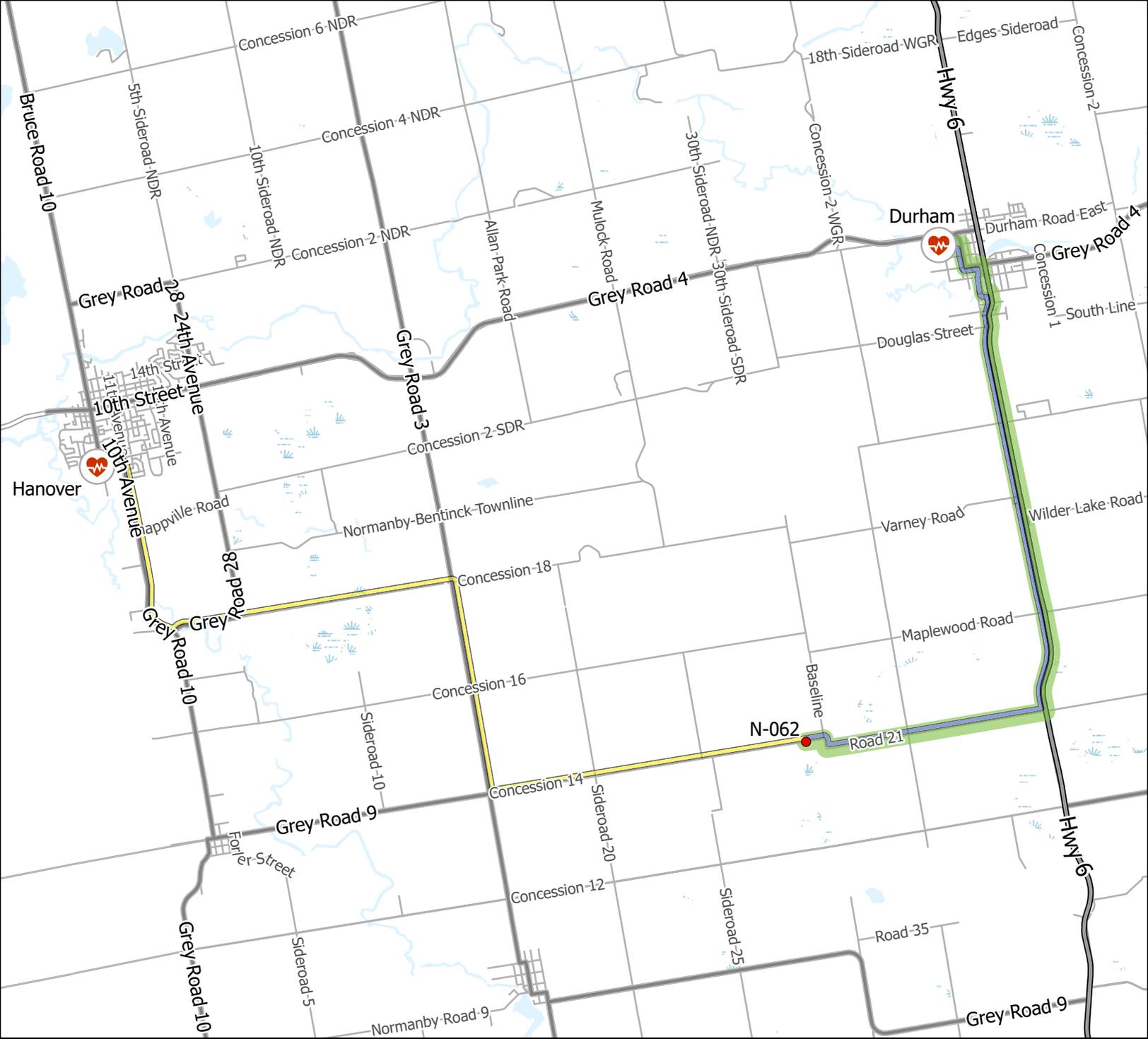
Structure: N-057

Travel Time Difference: 3.7 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-057 - Hanover	16.2	18.3	N/W Barrier
N-057 - Hanover	12.6	12.7	Original
N-057 - Hanover	12.6	12.7	S/E Barrier

0   0.5   1   2   3   4 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-059

Travel Time Difference: 2.4 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-059 - Durham	15.7	16.3	N/W Barrier
N-059 - Durham	15.7	16.3	Original
N-059 - Hanover	18.1	21.9	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-062

Travel Time Difference: 1.2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-062 - Durham	15.7	14.8	N/W Barrier
N-062 - Durham	15.7	14.8	Original
N-062 - Hanover	16.9	19.7	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
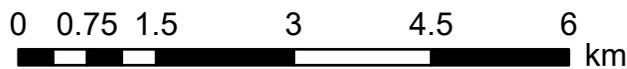- N/W Barrier
- S/E Barrier

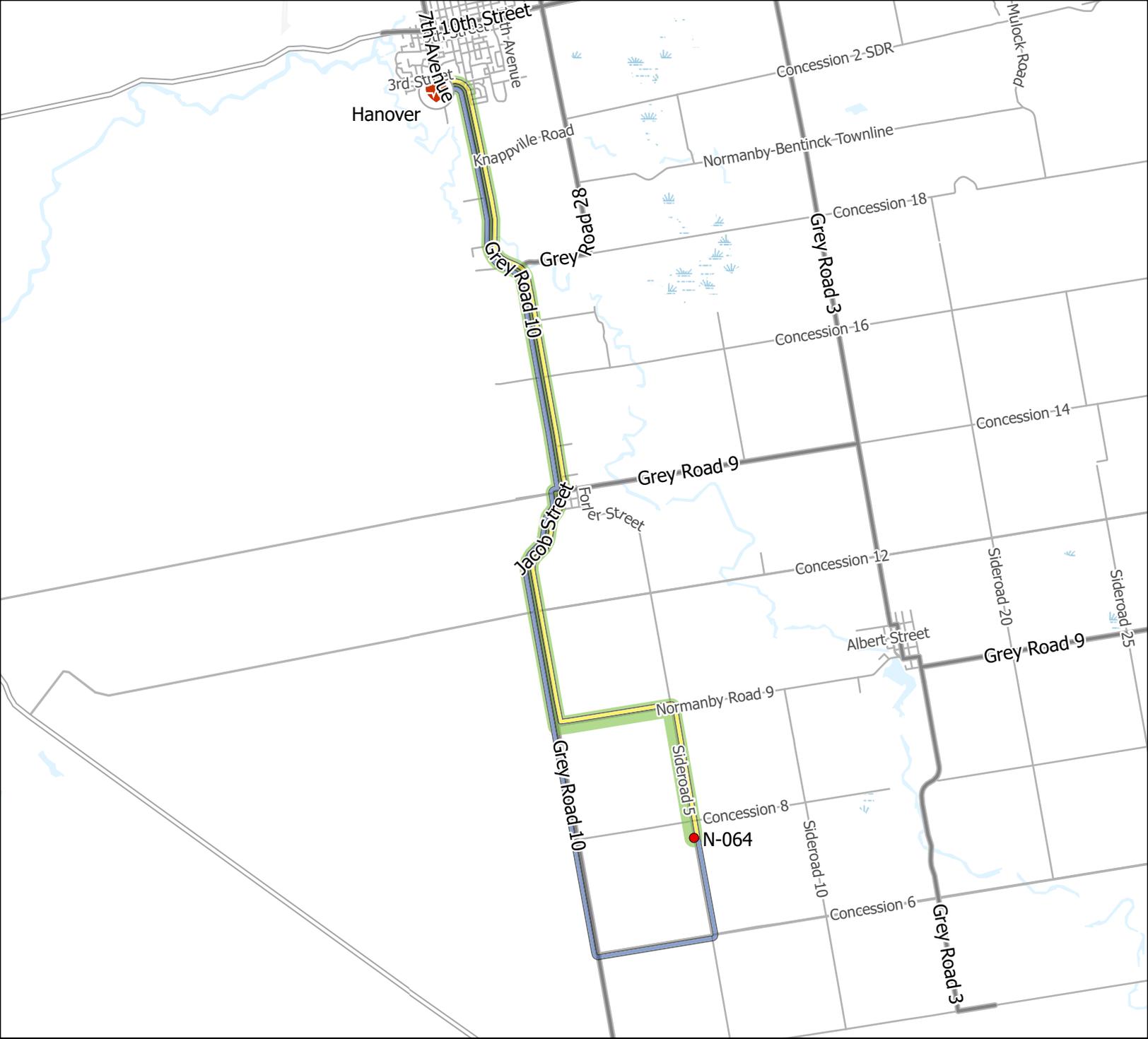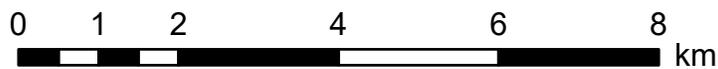0 1 2 4 6 8 km

N
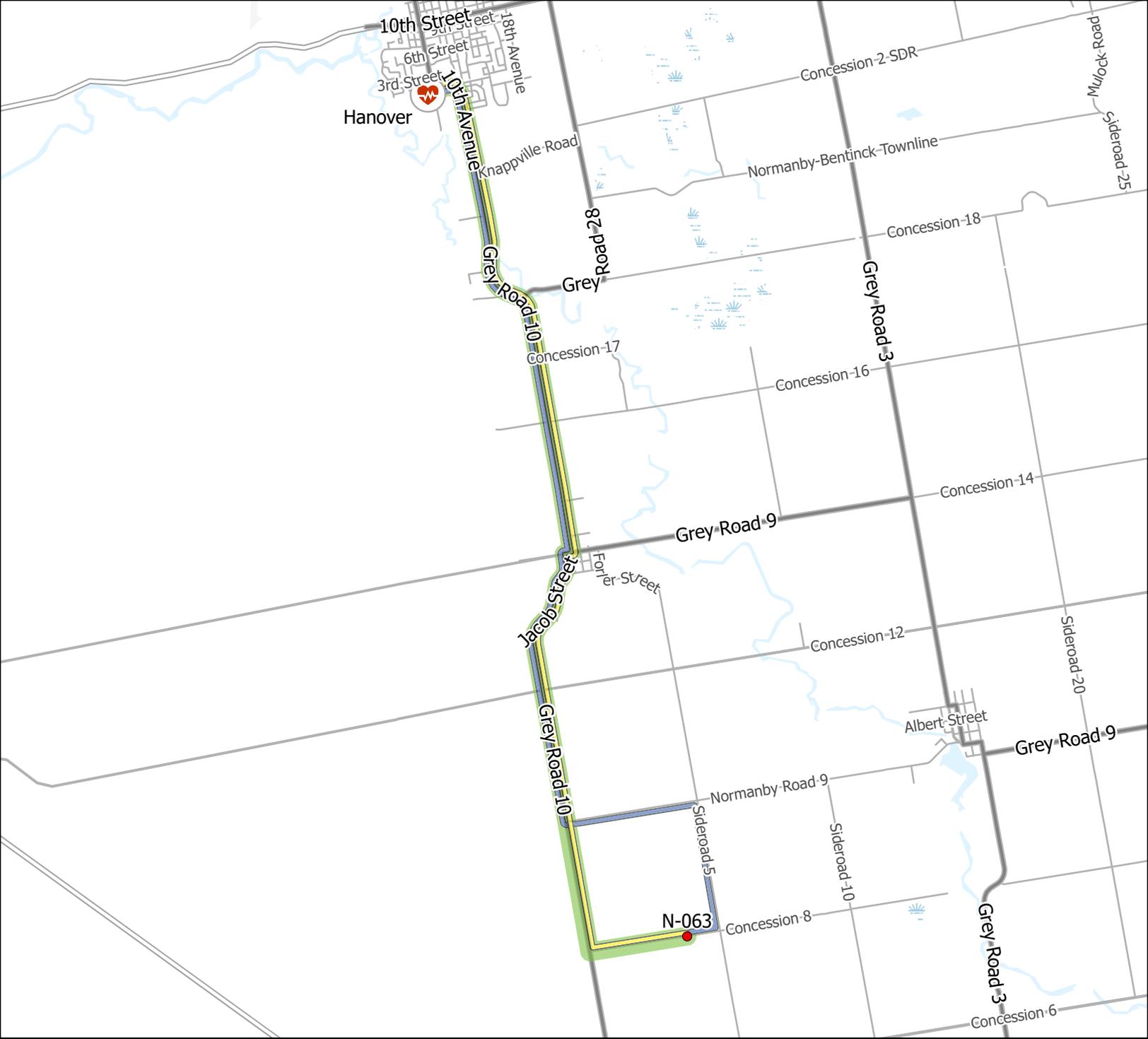
Structure: N-063

Travel Time Difference: 0.8 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-063 - Hanover	15.9	17.2	N/W Barrier
N-063 - Hanover	15.1	16.2	Original
N-063 - Hanover	15.1	16.2	S/E Barrier

0   0.75   1.5   3   4.5   6
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-064

Travel Time Difference: 2.7 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-064 - Hanover	18.4	20.5	N/W Barrier
N-064 - Hanover	15.8	17	Original
N-064 - Hanover	15.8	17	S/E Barrier

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17
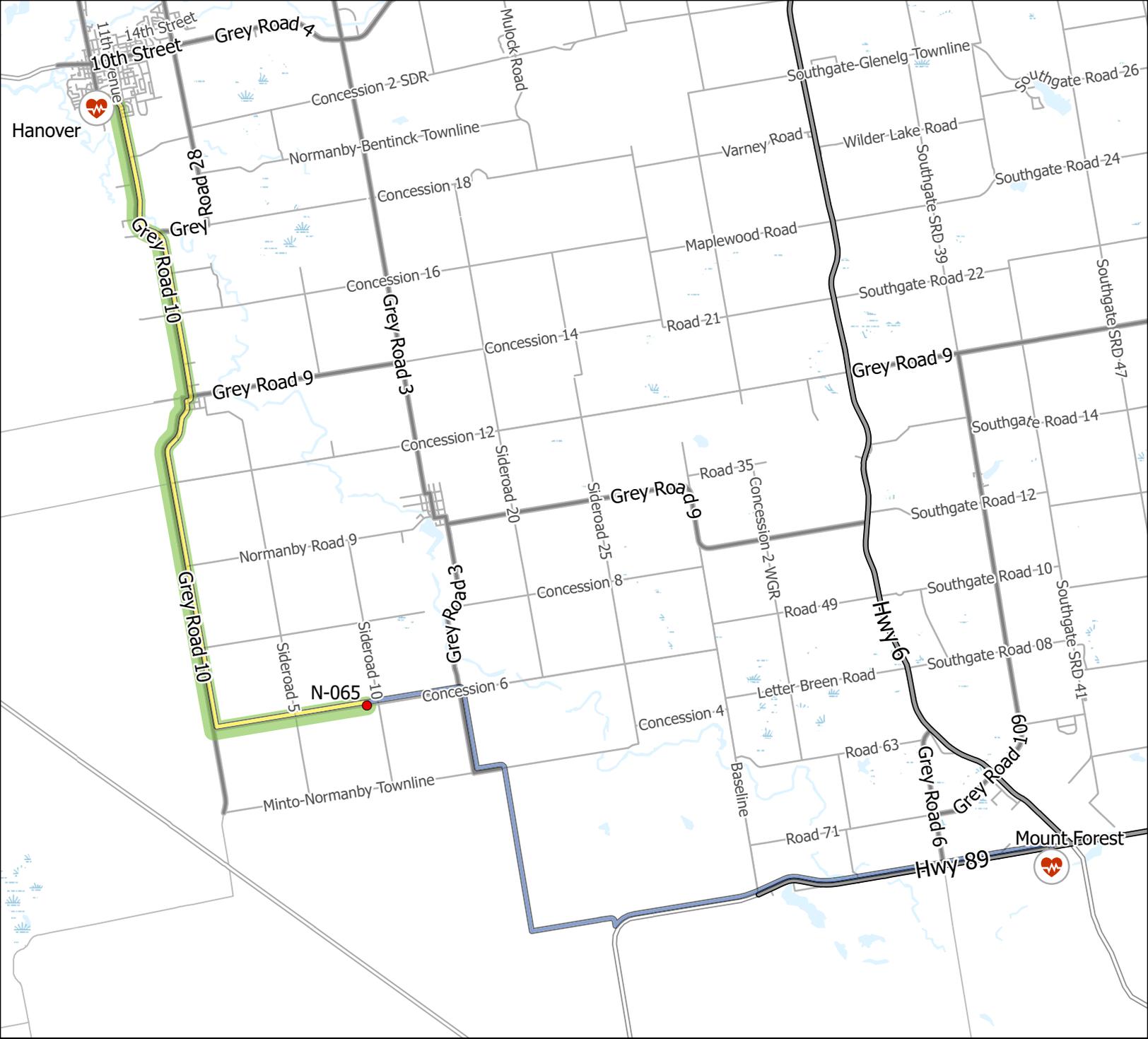
Structure: N-065

Travel Time Difference: 1 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-065 - Mount Forest	19.4	22.9	N/W Barrier
N-065 - Hanover	18.4	20.5	Original
N-065 - Hanover	18.4	20.5	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 1.5 3 6 9 12 km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

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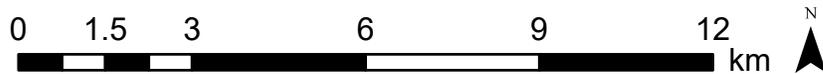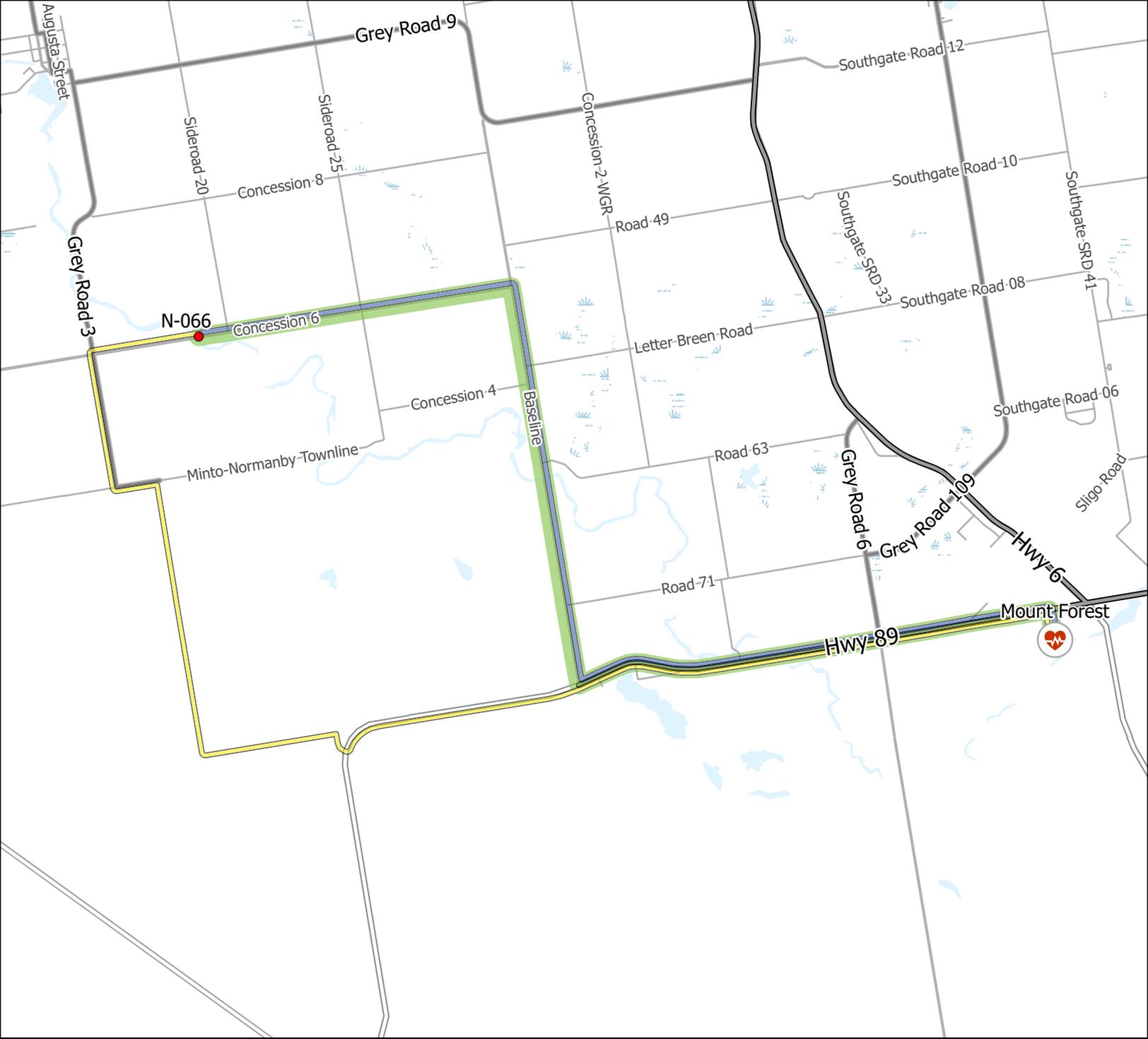
Structure: N-066

Travel Time Difference: 2.6 minutes

- **Structure**
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-066 - Mount Forest	16.2	18.5	N/W Barrier
N-066 - Mount Forest	16.2	18.5	Original
N-066 - Mount Forest	18.8	22.2	S/E Barrier

0 0.75 1.5 3 4.5 6
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17
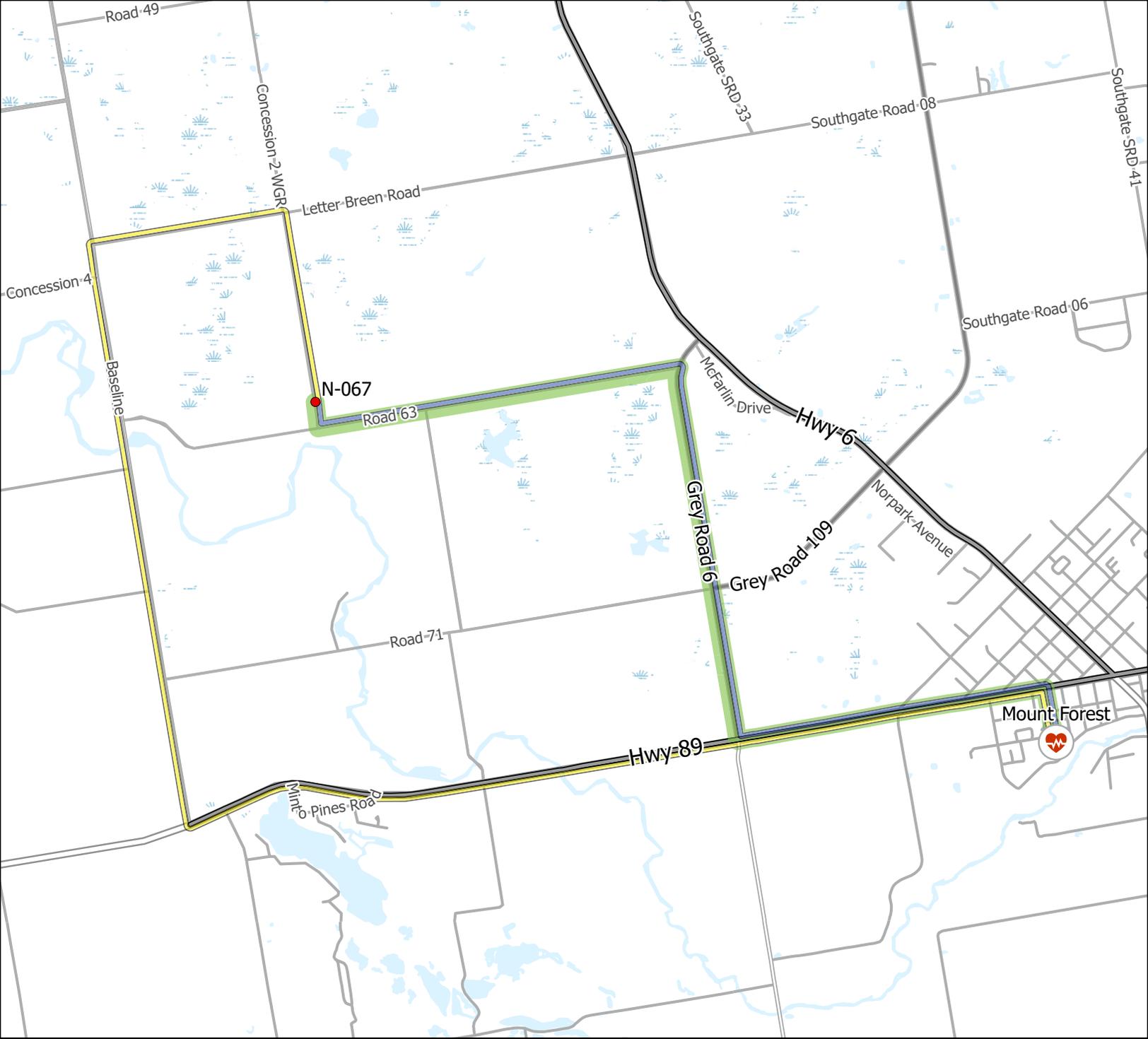
Structure: N-067

Travel Time Difference: 4.8 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-067 - Mount Forest	8.9	9.4	N/W Barrier
N-067 - Mount Forest	8.9	9.4	Original
N-067 - Mount Forest	13.7	15.8	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 0.5 1 2 3 4 km

N
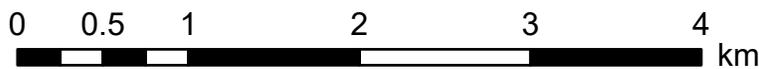
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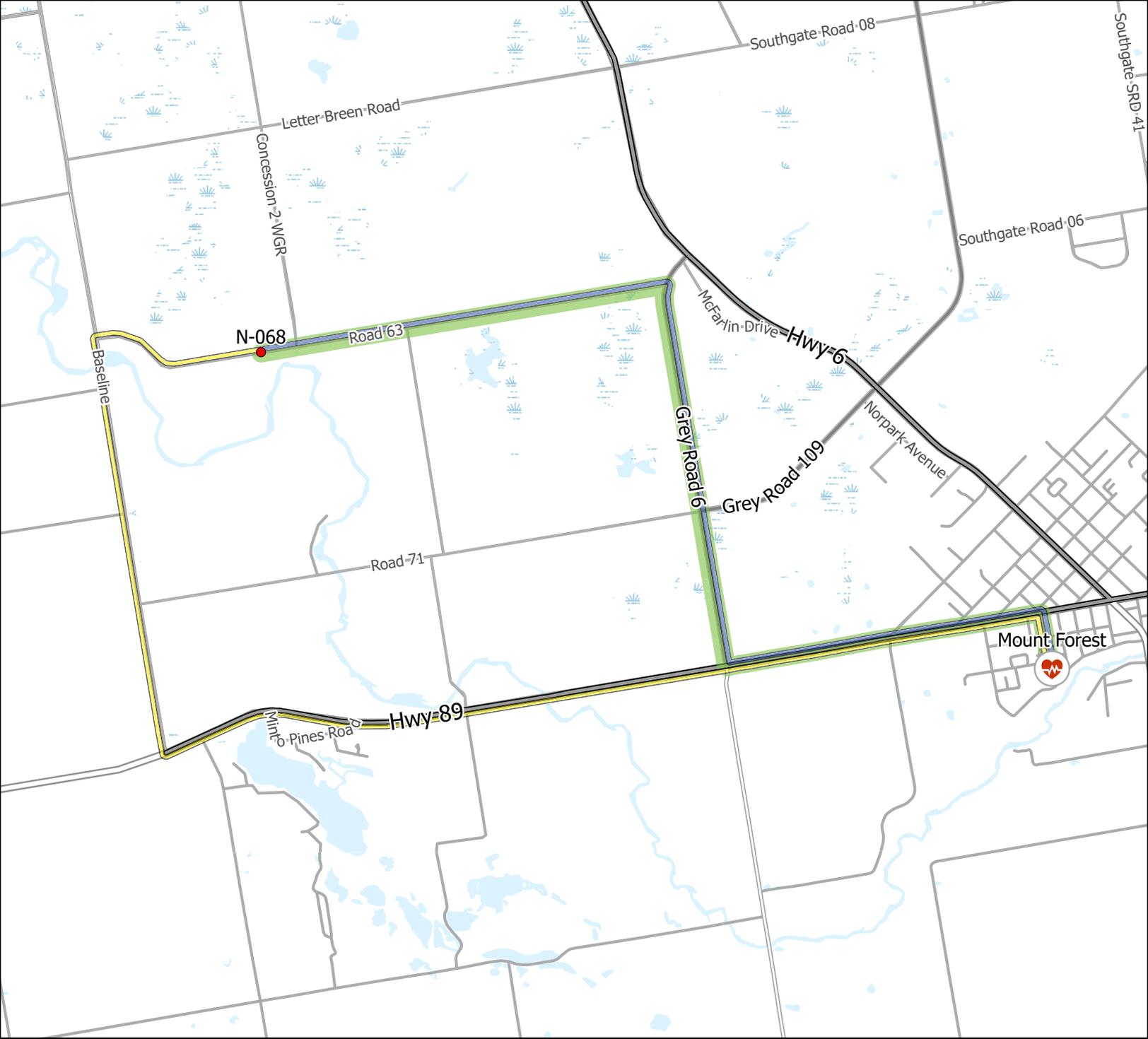
Structure: N-068

Travel Time Difference: 2 minutes

Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-068 - Mount Forest	9	9.5	N/W Barrier
N-068 - Mount Forest	9	9.5	Original
N-068 - Mount Forest	11	12.5	S/E Barrier

0 0.5 1 2 3 4 km

N
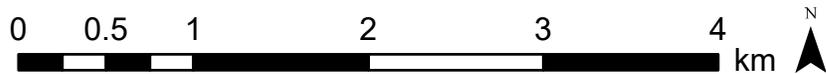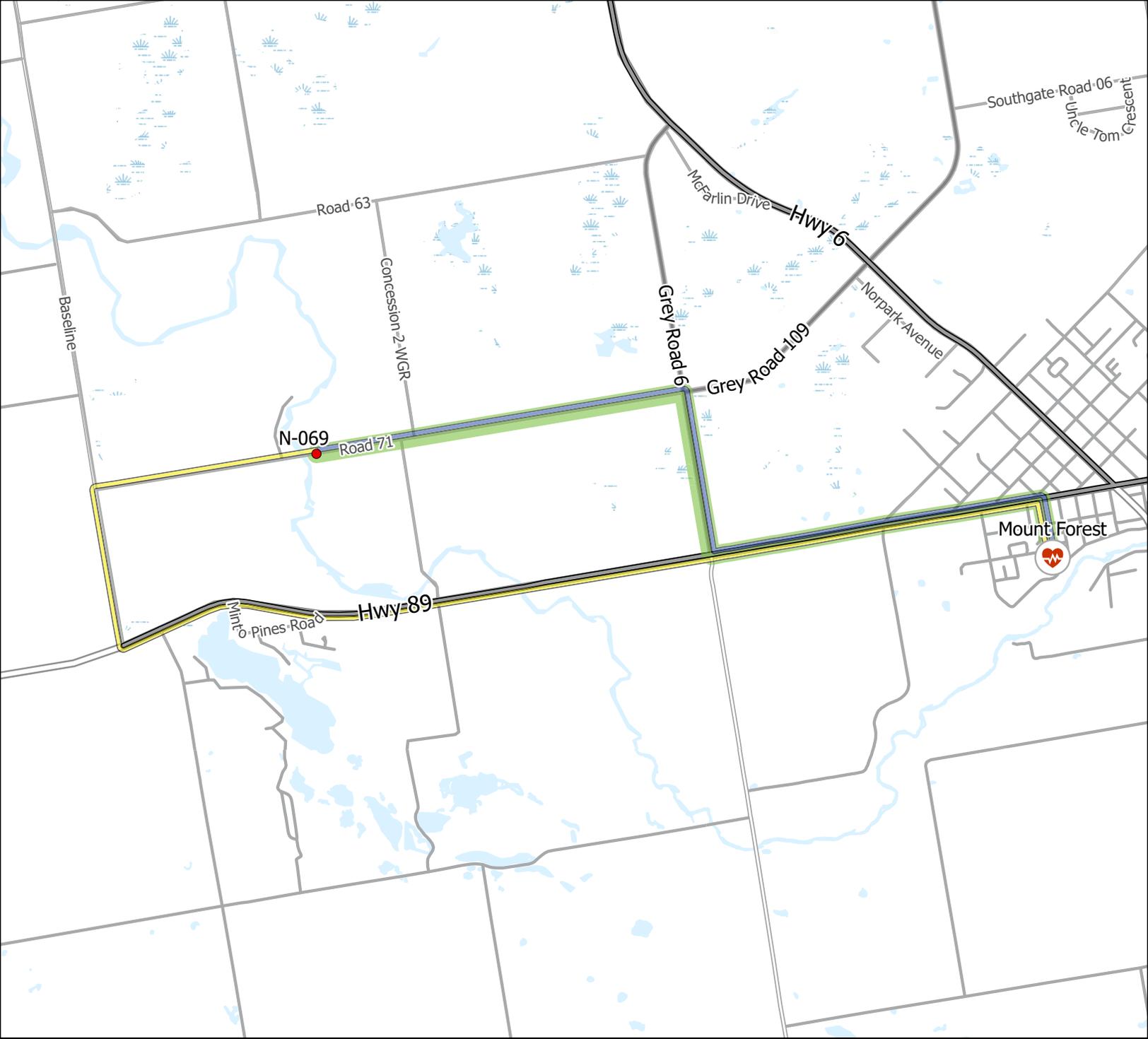
Structure: N-069

Travel Time Difference: 2.5 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-069 - Mount Forest	6.8	7.2	N/W Barrier
N-069 - Mount Forest	6.8	7.2	Original
N-069 - Mount Forest	9.3	10.6	S/E Barrier

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   0.47   0.95   1.9   2.85   3.8
km

N
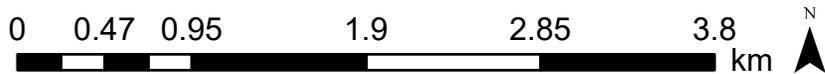
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Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-071

Travel Time Difference: 2.2 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-071 - Mount Forest	7	7.4	N/W Barrier
N-071 - Mount Forest	7	7.4	Original
N-071 - Mount Forest	9.1	10.4	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   0.47   0.95   1.9   2.85   3.8   km

N

Created by: Grey County GIS
Date: October 17, 2024
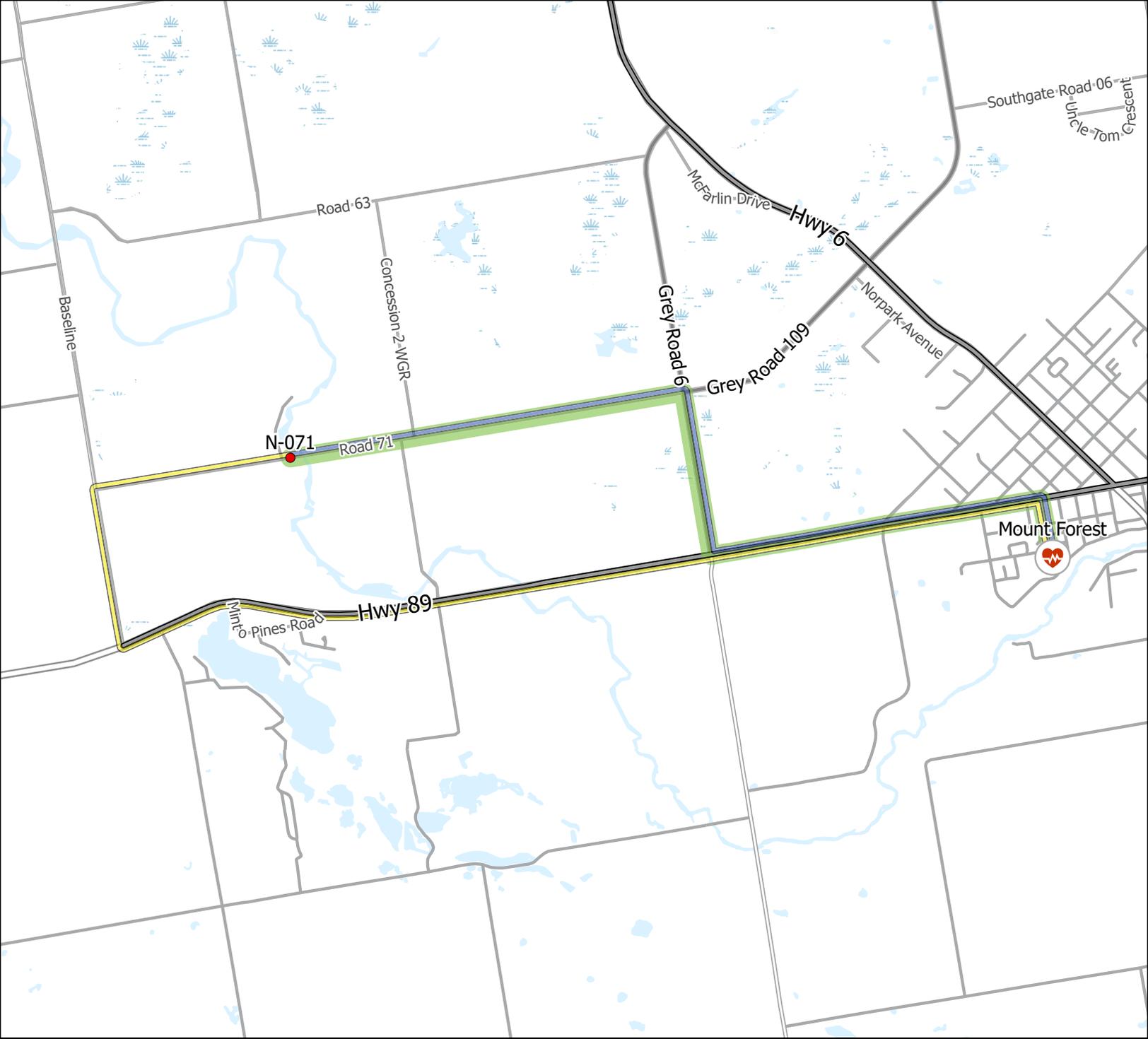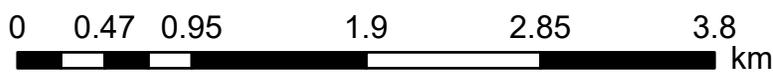NAD83 UTM Zone 17
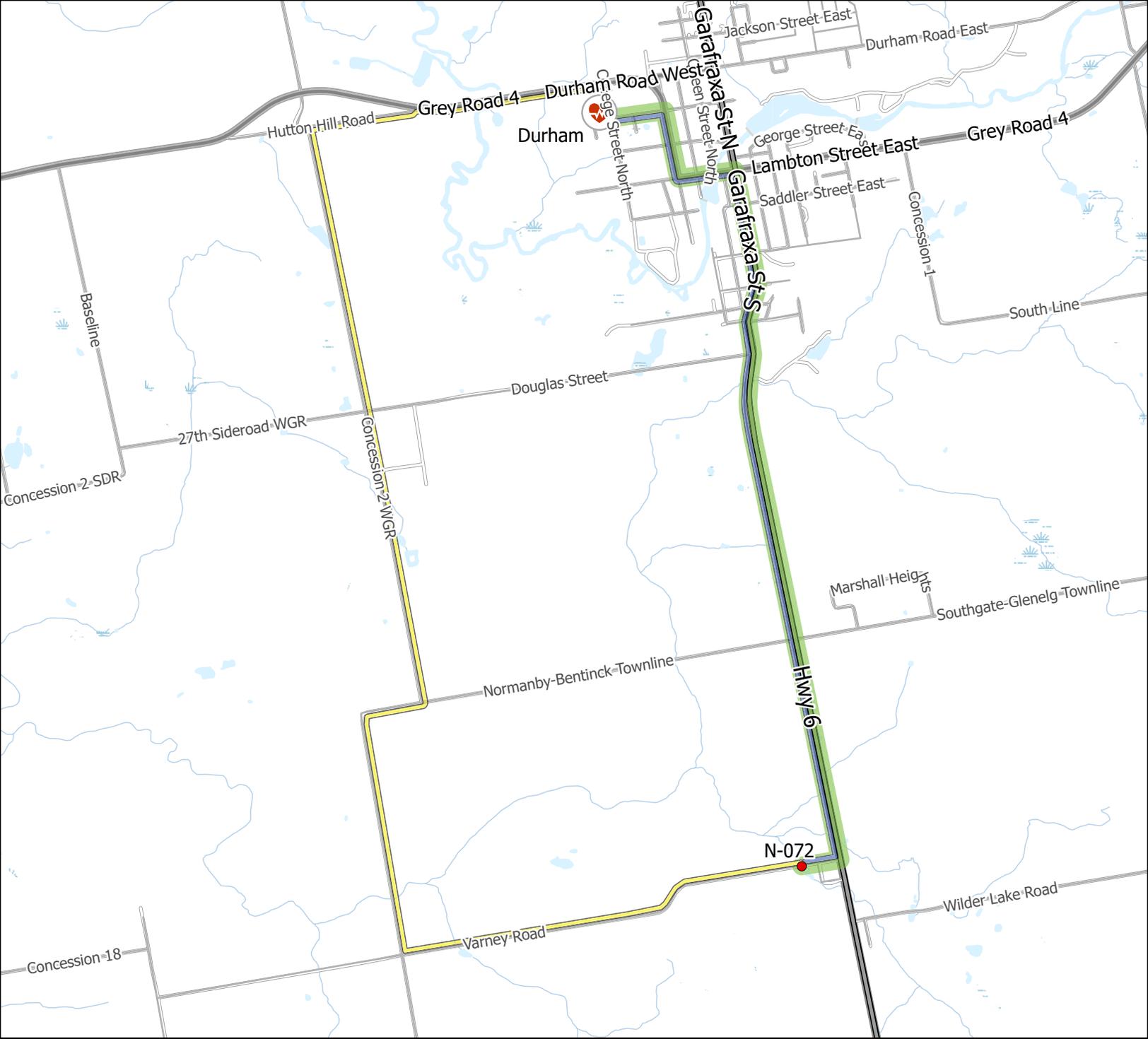
Structure: N-072

Travel Time Difference: 2.8 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-072 - Durham	7.1	6	N/W Barrier
N-072 - Durham	7.1	6	Original
N-072 - Durham	9.9	10.6	S/E Barrier

0   0.38   0.75   1.5   2.25   3
km

Created by: Grey County GIS
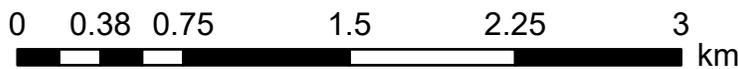Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-163

Travel Time Difference: 4.7 minutes

- • Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-163 - Mount Forest	8.5	8	N/W Barrier
N-163 - Mount Forest	8.5	8	Original
N-163 - Mount Forest	13.2	15.8	S/E Barrier

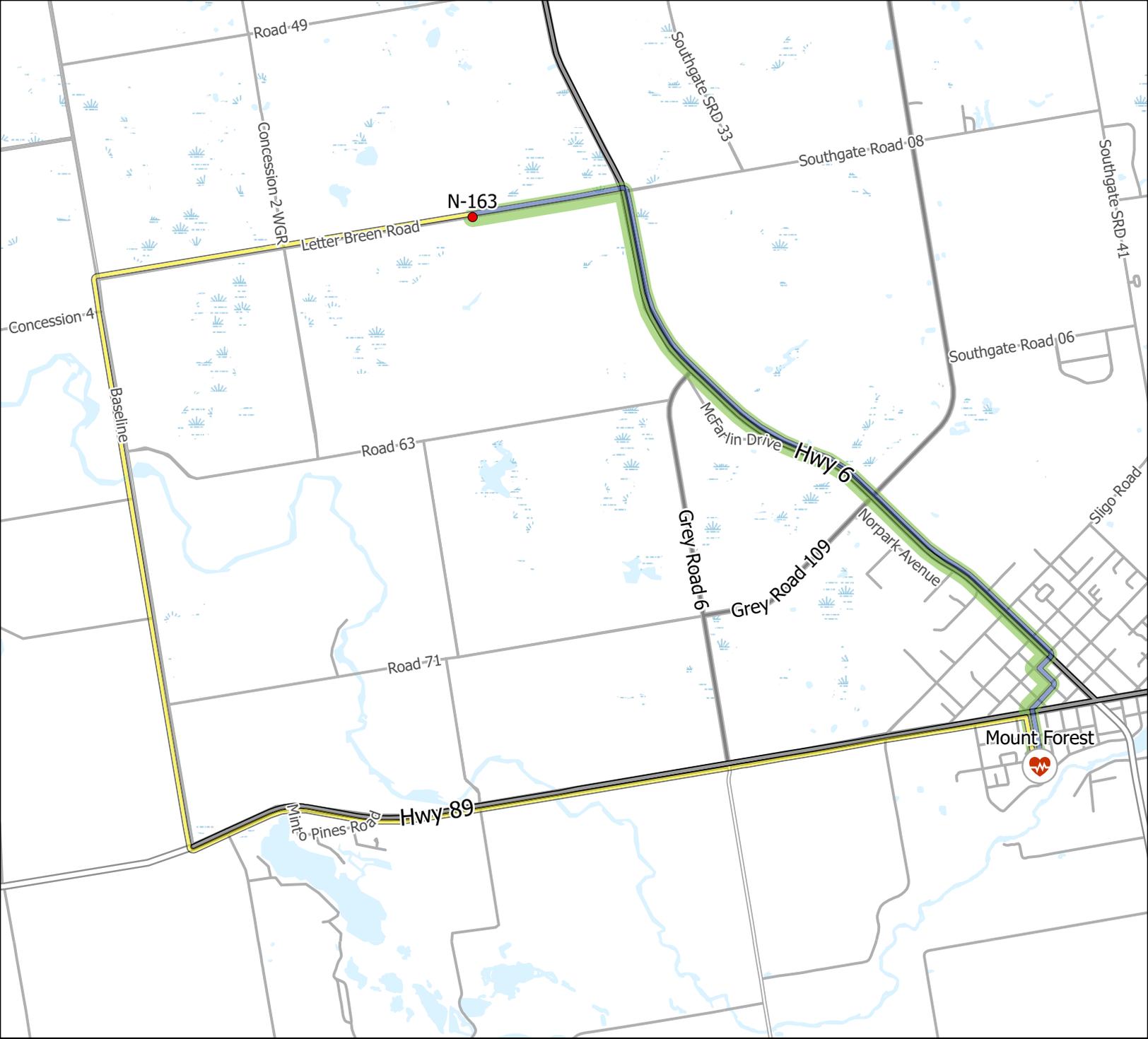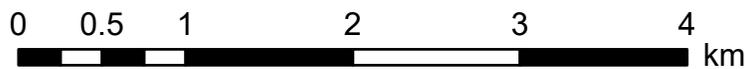0   0.5   1   2   3   4
km

N

Structure: N-165
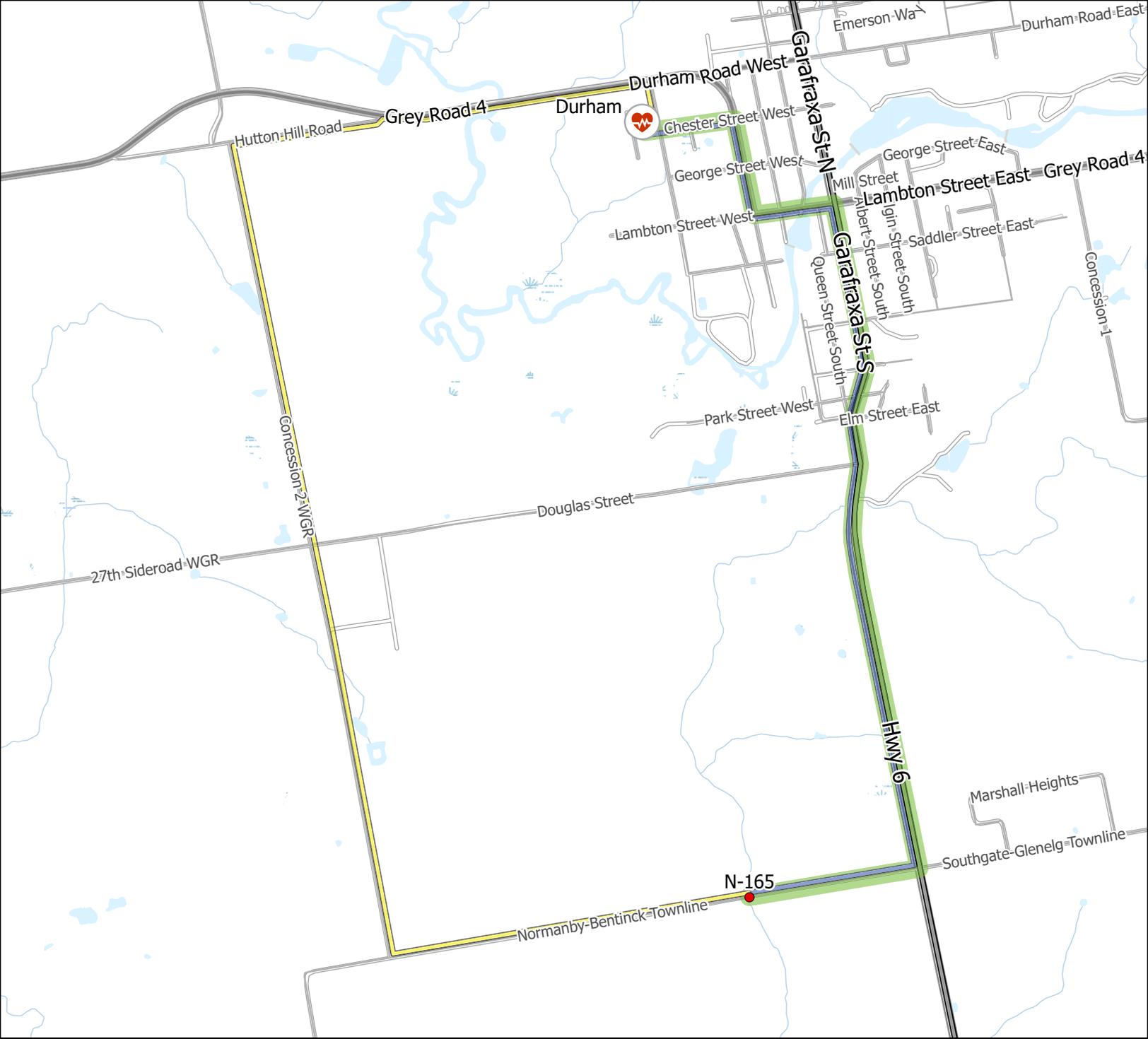
Travel Time Difference: 1 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-165 - Durham	6.5	5.1	N/W Barrier
N-165 - Durham	6.5	5.1	Original
N-165 - Durham	7.5	7.7	S/E Barrier

0   0.28   0.55   1.1   1.65   2.2
km

Structure: N-171

Travel Time Difference: 3.9 minutes

Legend

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

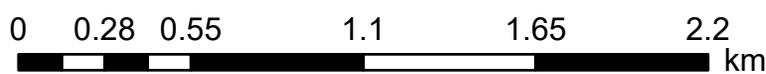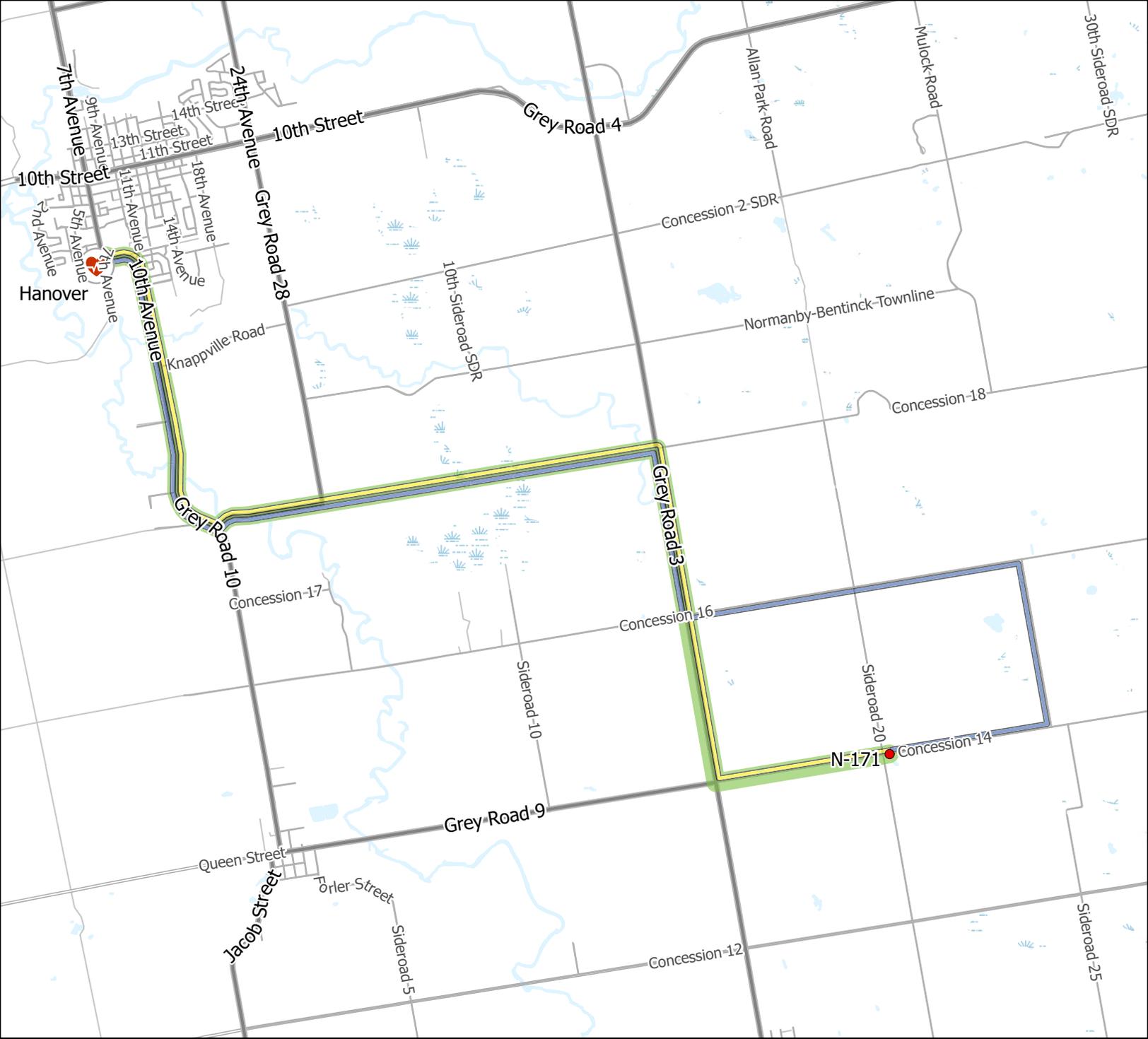| Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-171 - Hanover	17.6	19.7	N/W Barrier
N-171 - Hanover	13.8	15.8	Original
N-171 - Hanover	13.8	15.8	S/E Barrier

0   0.75   1.5   3   4.5   6
km

Structure: N-172

Travel Time Difference: 0.9 minutes

- ● Structure
- ♥ Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-172 - Durham	16.6	15.8	N/W Barrier
N-172 - Hanover	15.7	18.3	Original
N-172 - Hanover	15.7	18.3	S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: October 17, 2024
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Structure: N-178

Travel Time Difference: 2.4 minutes

Legend

- **Structure** (red dot)
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-178 - Hanover	16.6	19.3	N/W Barrier
N-178 - Hanover	14.1	16.1	Original
N-178 - Hanover	14.1	16.1	S/E Barrier

0 0.5 1 2 3 4 km

N

Created by: Grey County GIS
Date: October 17, 2024
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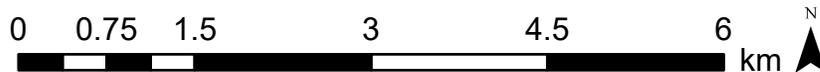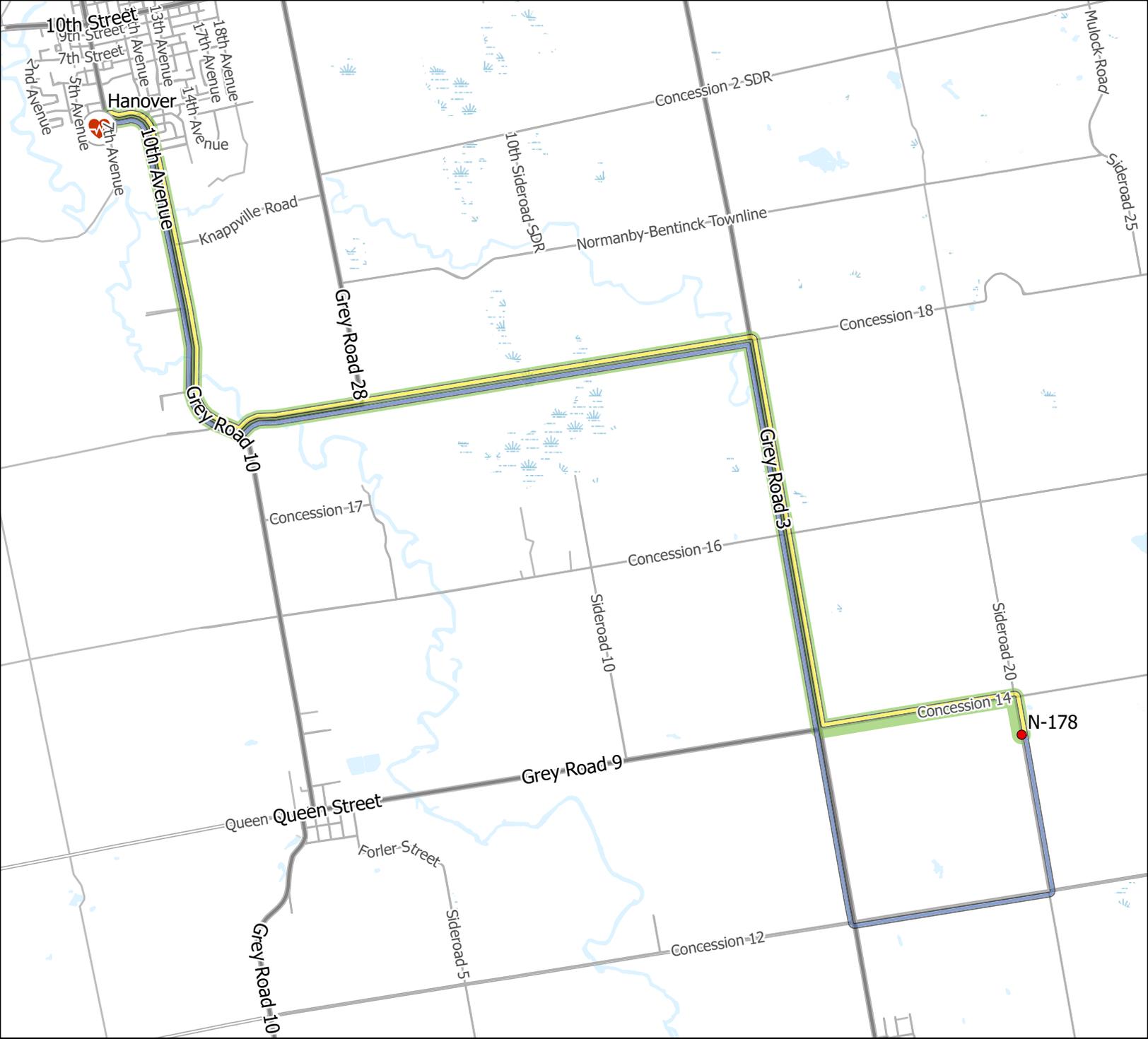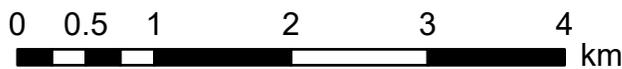
Structure: N-179

Travel Time Difference: 1.9 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-179 - Hanover	14.9	16.9	N/W Barrier
N-179 - Hanover	13	14.4	Original
N-179 - Hanover	13	14.4	S/E Barrier

0 0.5 1 2 3 4
km

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Structure: N-183

Travel Time Difference: 1.1 minutes

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-183 - Mount Forest	18.3	21.9	N/W Barrier
N-183 - Mount Forest	18.3	21.9	Original
N-183 - Hanover	19.4	21.5	S/E Barrier

Legend:
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier
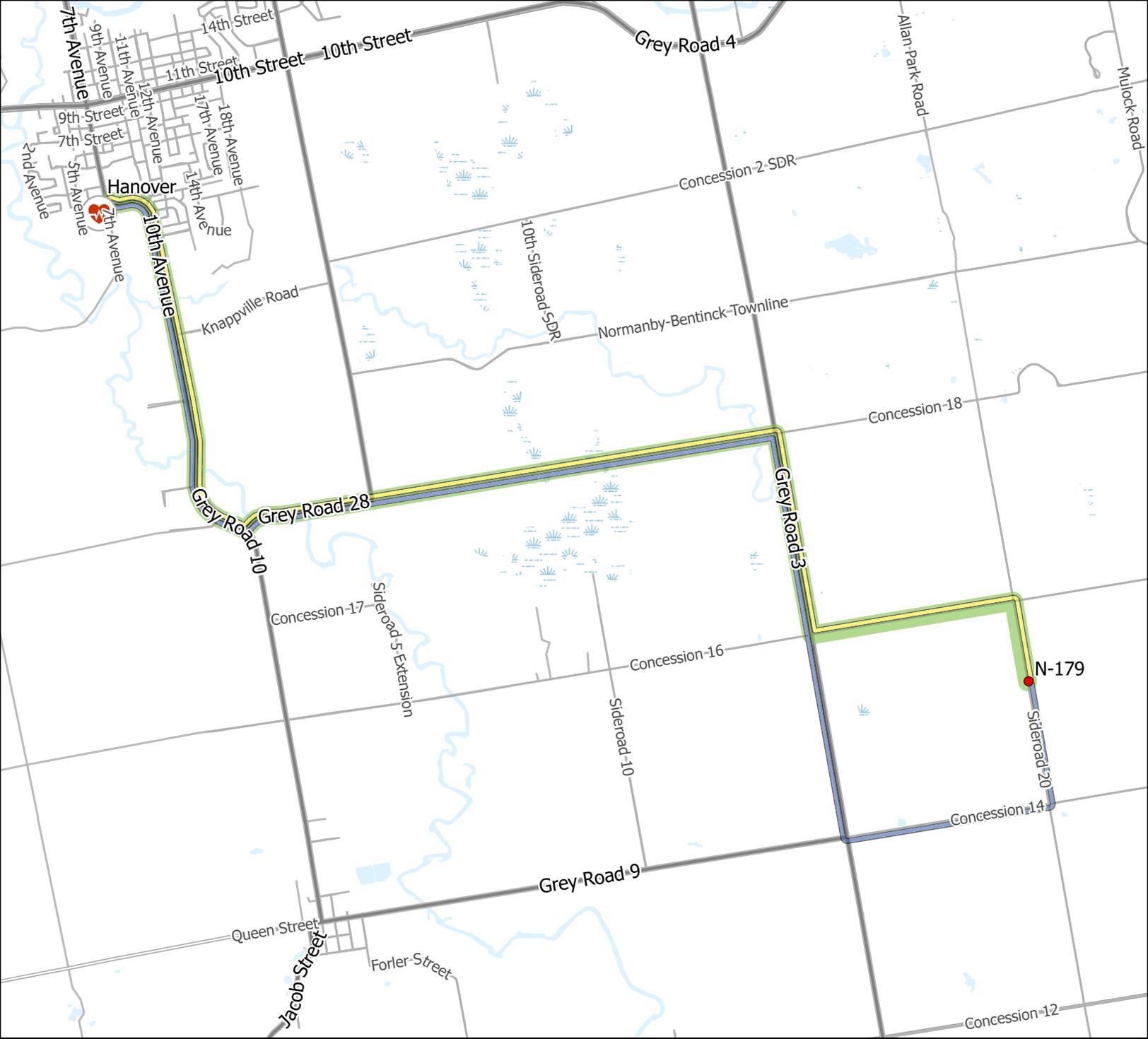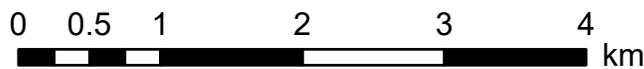
0 1.5 3 6 9 12 km
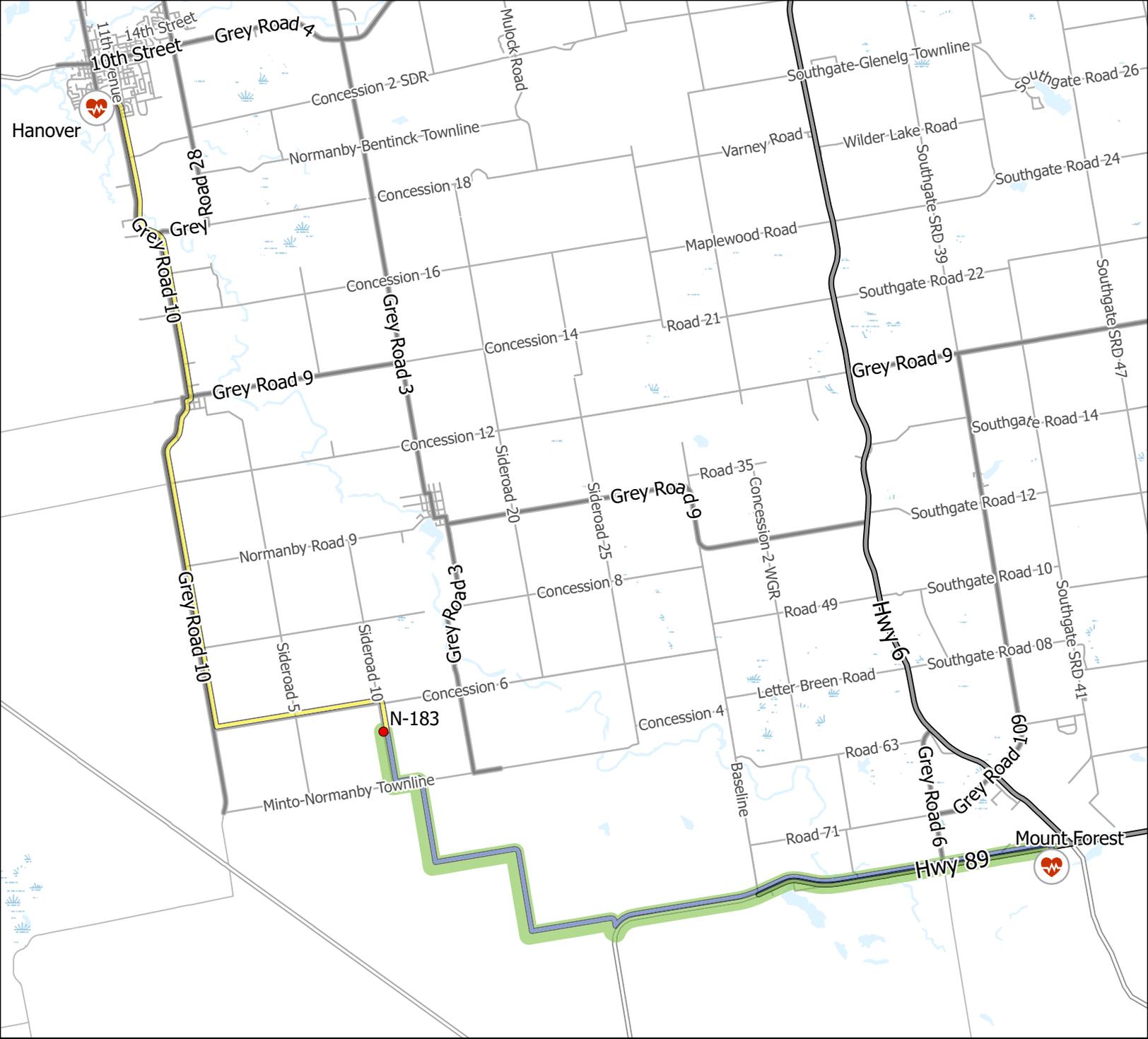
N

Structure: N-187

Travel Time Difference: 0.8 minutes

- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-187 - Mount Forest	17	19.1	N/W Barrier
N-187 - Mount Forest	17	19.1	Original
N-187 - Hanover	17.8	21	S/E Barrier

0 1.5 3 6 9 12 km

N

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Date: October 17, 2024
NAD83 UTM Zone 17

Structure: N-190

Travel Time Difference: 0.4 minutes

- **●** Structure
- **♥** Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-190 - Hanover	16.2	17.9	N/W Barrier
N-190 - Hanover	15.8	17.9	Original
N-190 - Hanover	15.8	17.9	S/E Barrier

0   0.5   1   2   3   4 km

N
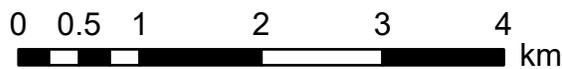
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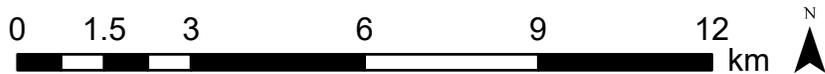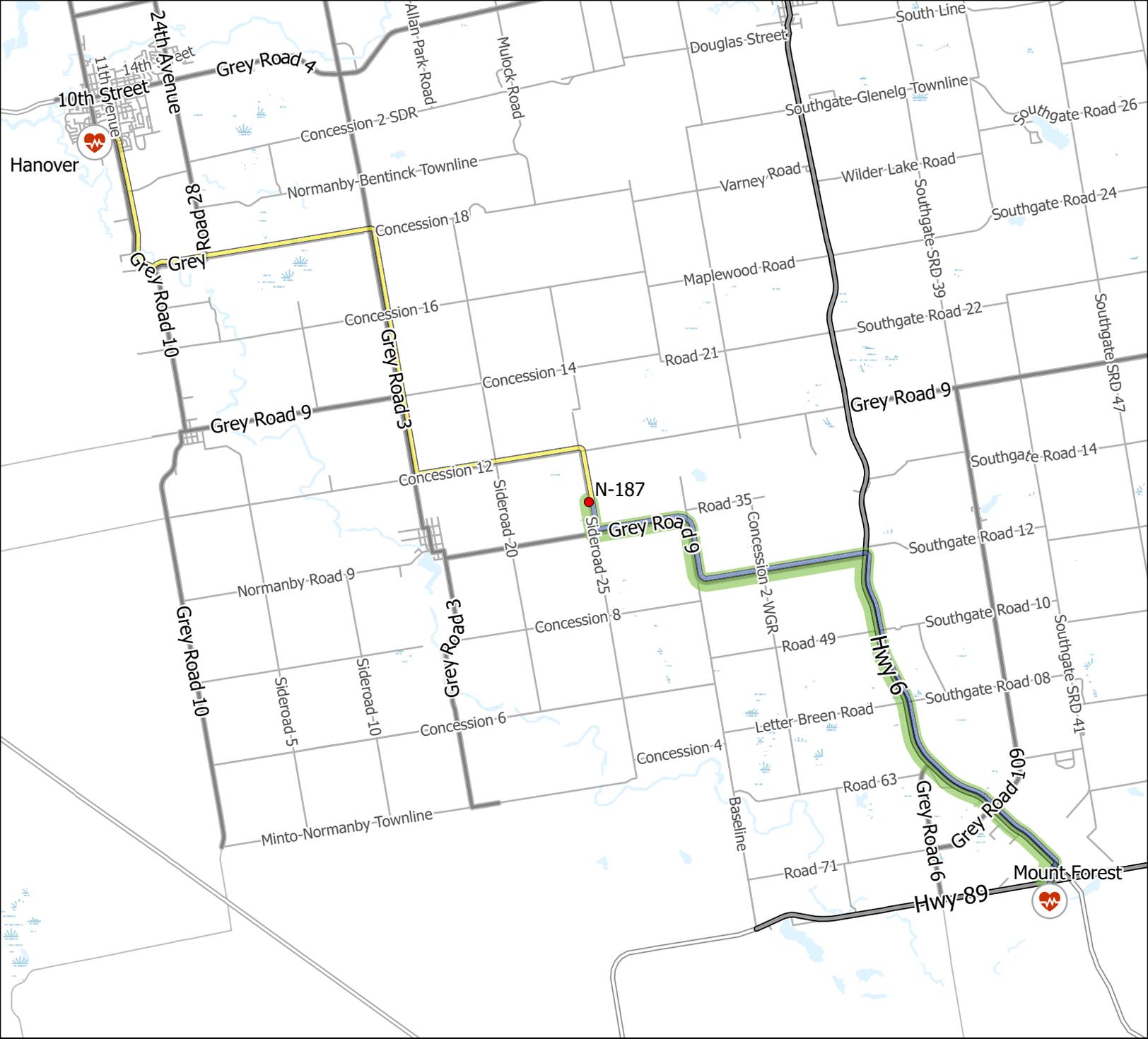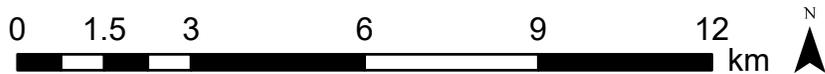NAD83 UTM Zone 17
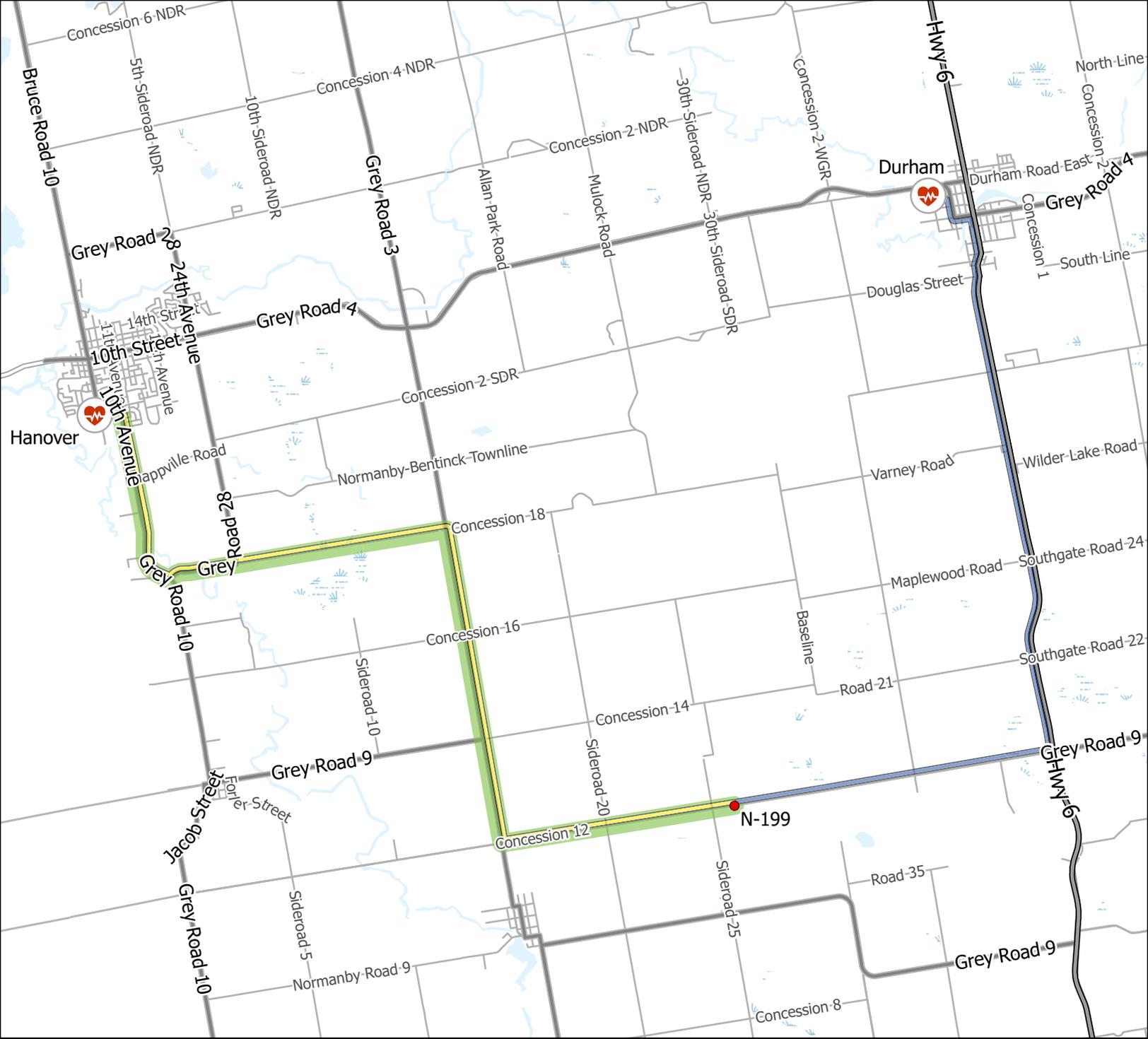
Structure: N-199

Travel Time Difference: 0.6 minutes
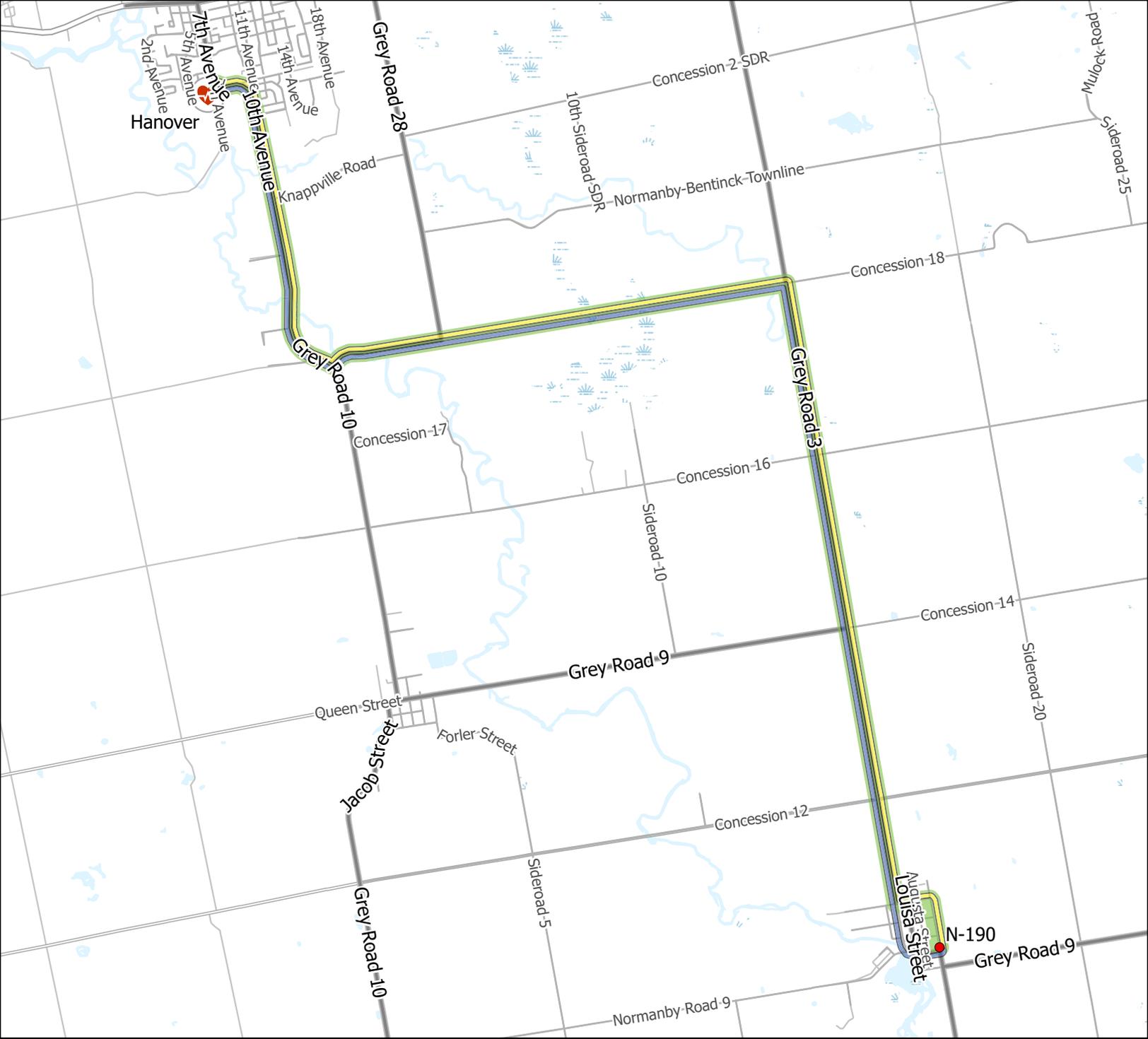
- Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
N-199 - Durham	17.4	18	N/W Barrier
N-199 - Hanover	16.8	20.2	Original
N-199 - Hanover	16.8	20.2	S/E Barrier
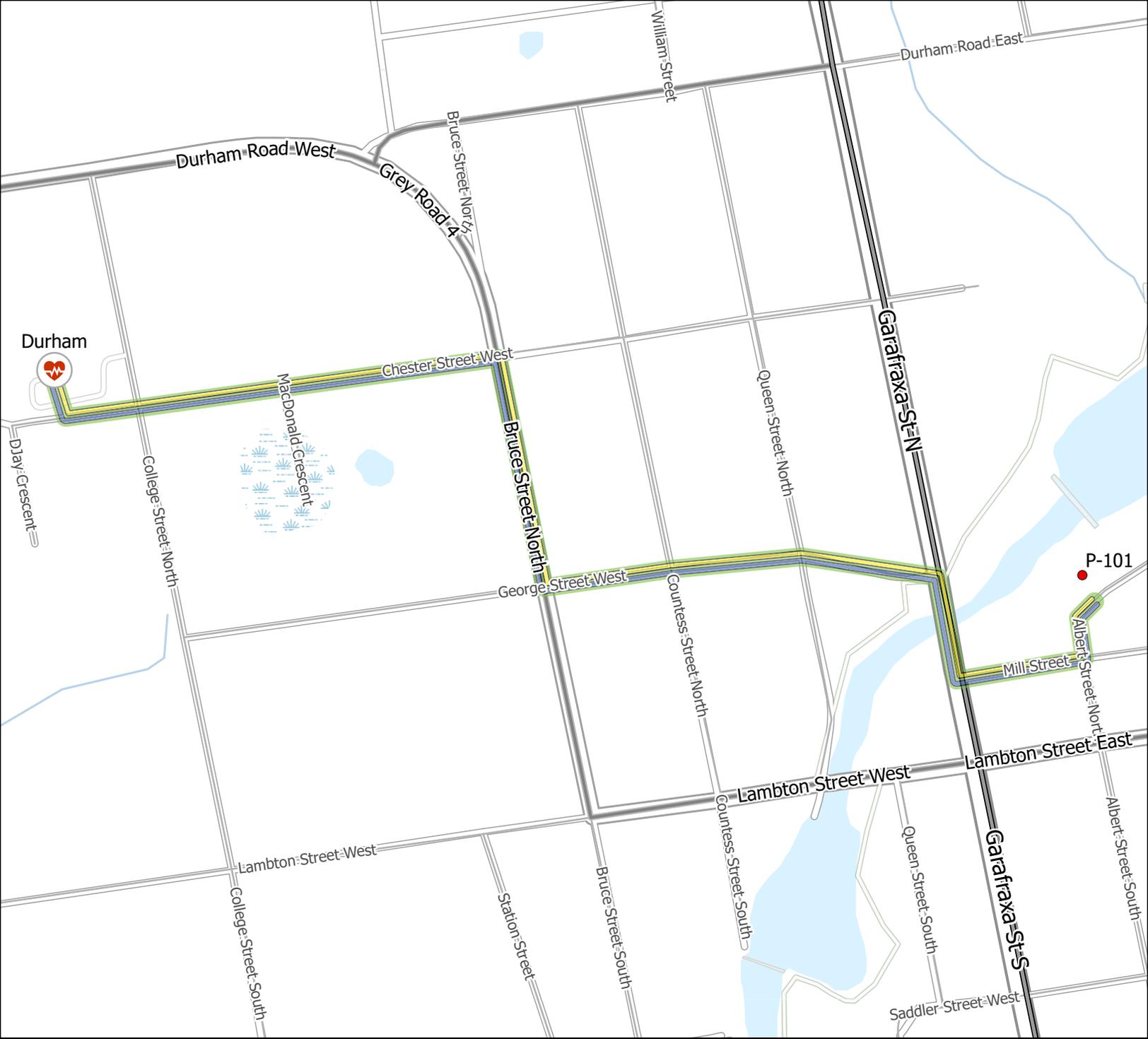
0 1 2 4 6 8 km

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Date: October 17, 2024
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Structure: P-101

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
P-101 - Durham	2.7	1.3	N/W Barrier
P-101 - Durham	2.7	1.3	Original
P-101 - Durham	2.7	1.3	S/E Barrier
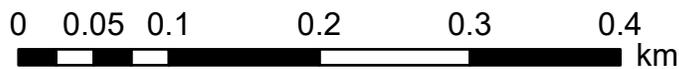
Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

0   0.05 0.1   0.2   0.3   0.4
km

N

Created by: Grey County GIS
Date: October 17, 2024
NAD83 UTM Zone 17

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Structure: P-102

Name - Nearest Hospital	Travel Time (min)	Kilometers	Scenario
P-102 - Hanover	9.9	8.8	N/W Barrier
P-102 - Hanover	9.9	8.8	Original
P-102 - Hanover	9.9	8.8	S/E Barrier

Structure

Hospital

Original (Fastest)

N/W Barrier

S/E Barrier

0 0.5 1 2 3 4
km

N
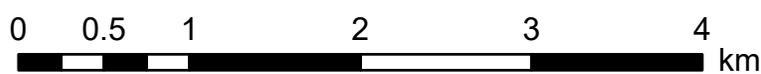
Structure: B-001

Travel Time Difference: 2.9 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-001 - Chelsey	6.9	7.3	Original
B-001 - Chelsey	6.9	7.3	S/E Barrier
B-001 - Chelsey	9.8	10.1	N/W Barrier

0   1   2 km

N

Structure: B-003

Travel Time Difference: 1.9 minutes

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-003 - Durham	12.5	15.9	Original
B-003 - Durham	12.5	15.9	N/W Barrier
B-003 - Hanover	14.4	14.4	S/E Barrier

Legend:
- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0 1 2 4 6 8 km

Structure: B-006
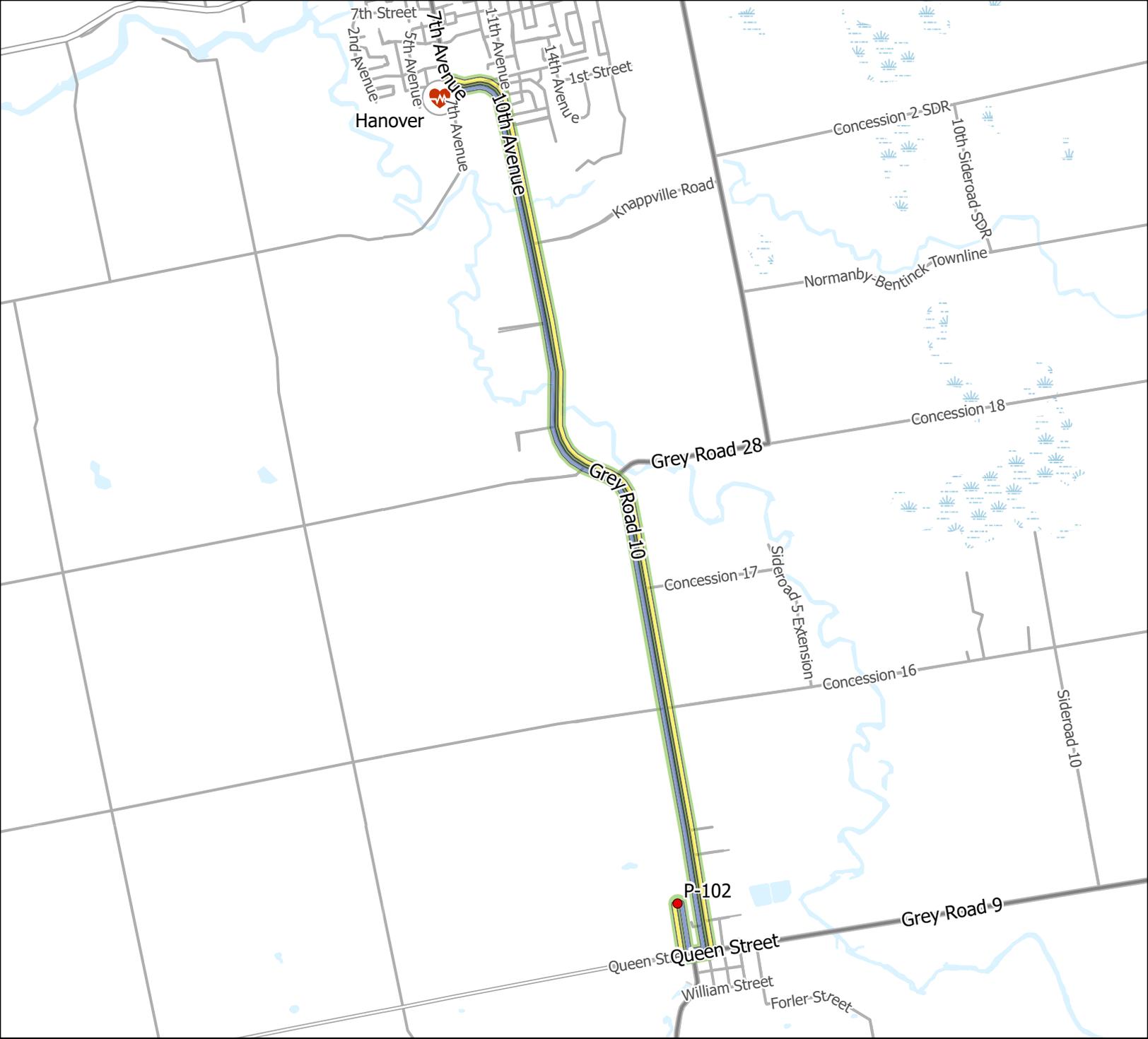
Travel Time Difference: 2.1 minutes

- ● Prioritized Structure
- ♥ Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-006 - Durham	13.8	17.2	Original
B-006 - Durham	13.8	17.2	N/W Barrier
B-006 - Chelsey	16.0	18.1	S/E Barrier

0 1 2 4 6 8 10 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17

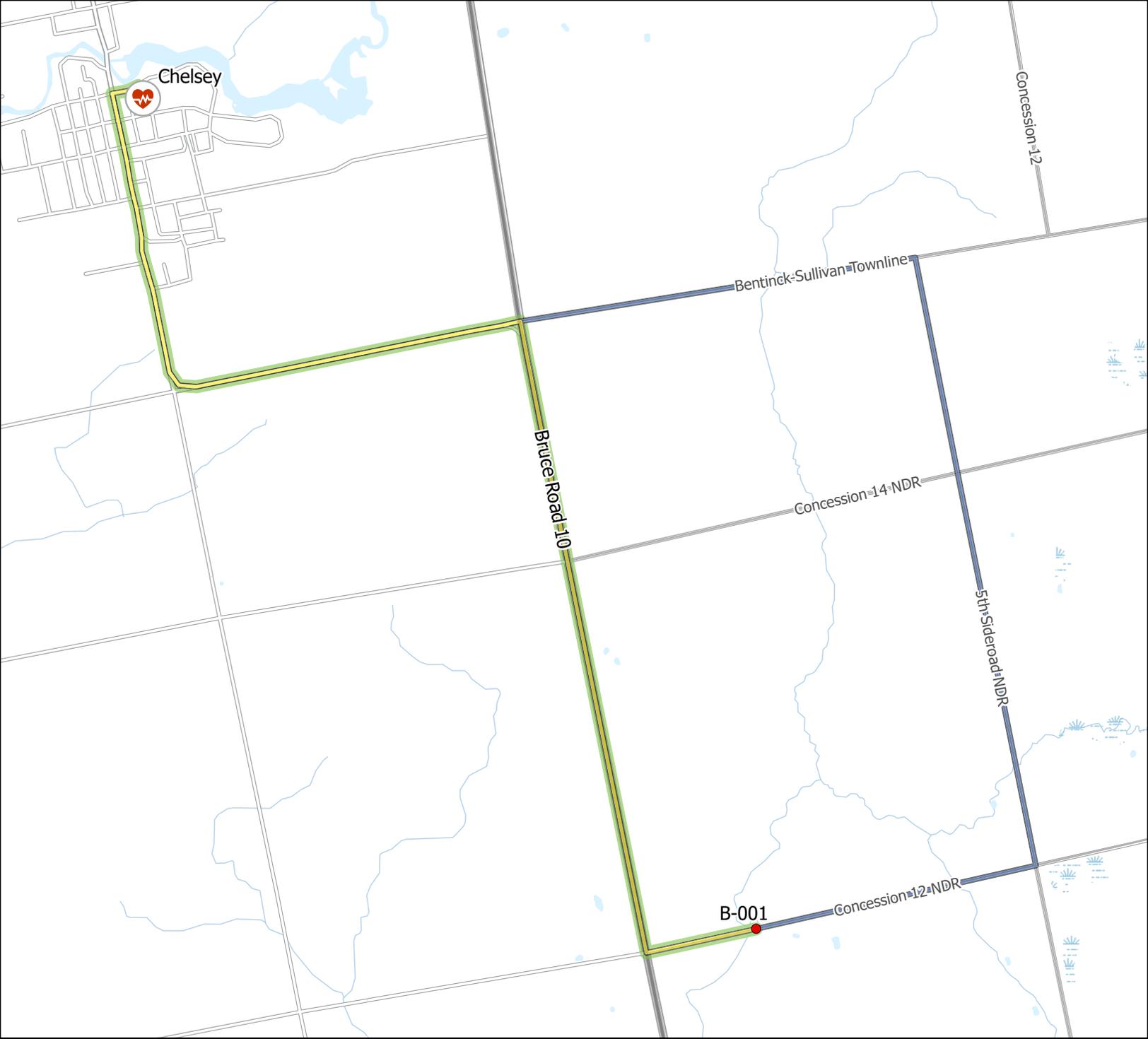## Structure: B-008

Travel Time Difference: 1.3 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-008 - Durham	15.6	17.1	Original
B-008 - Chelsey	16.9	19.8	S/E Barrier
B-008 - Durham	15.6	17.1	N/W Barrier

0 1 2 4 6 8 10 km

N

Created by: Grey County GIS
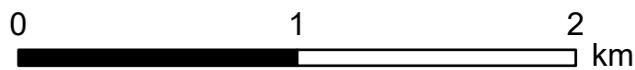Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: B-009

Travel Time Difference: 3.4 minutes

- 🔴 Prioritized Structure
- 🏥 Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-009 - Durham	14.6	16.1	Original
B-009 - Durham	14.6	16.1	N/W Barrier
B-009 - Durham	17.9	21.3	S/E Barrier

0 1 2 4 6 km

N

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Date: Sept 5. 2024
NAD83 UTM Zone 17

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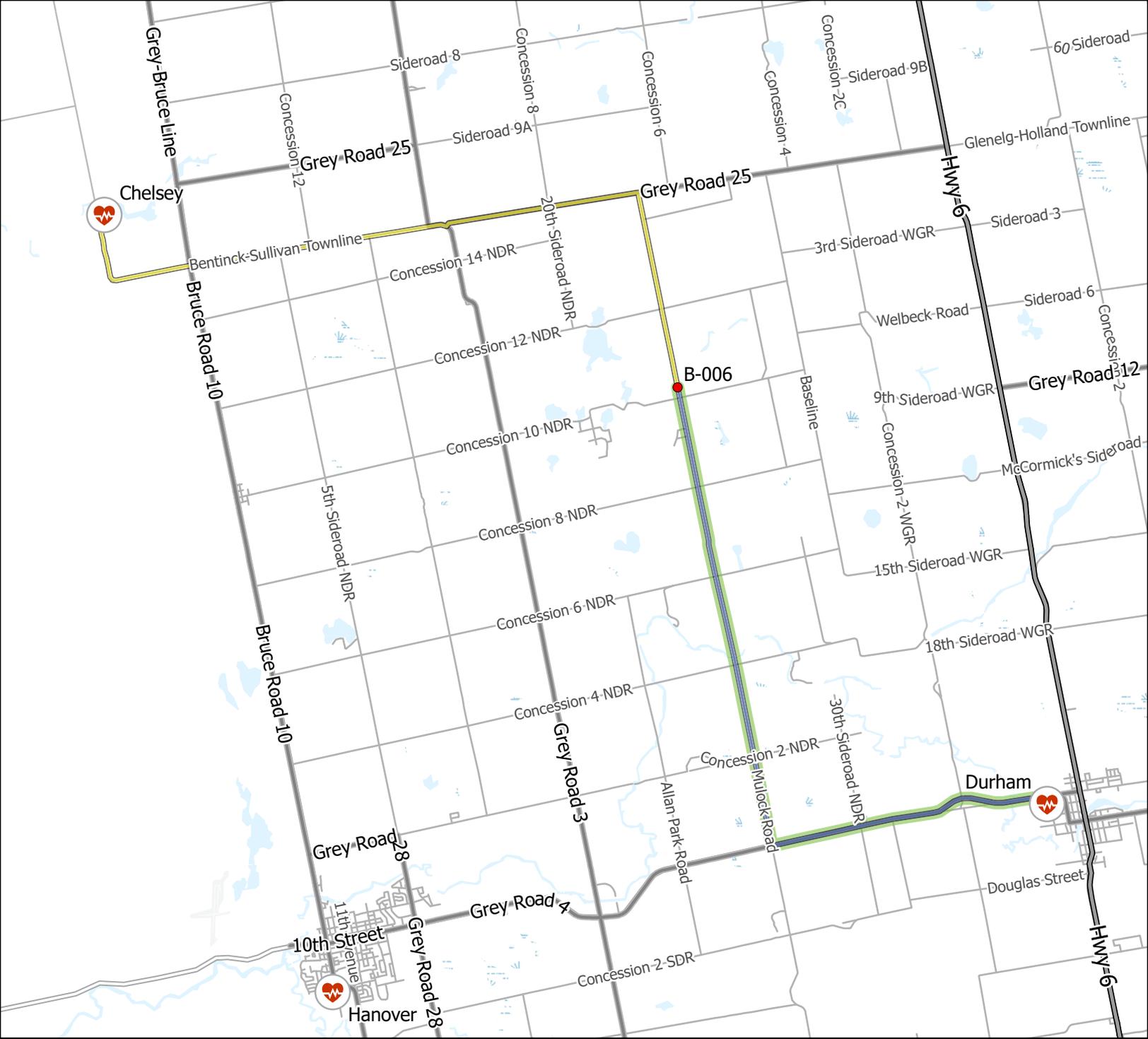
Structure: B-011

Travel Time Difference: 5.4 minutes

- 🔴 Prioritized Structure
- 💗 Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-011 - Durham	11.9	14.1	Original
B-011 - Durham	11.9	14.1	N/W Barrier
B-011 - Durham	17.4	19.0	S/E Barrier

0 1 2 4 6 km

N

Created by: Grey County GIS
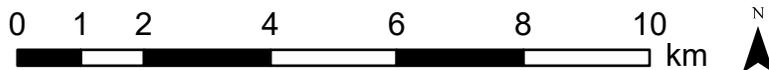Date: Sept 5. 2024
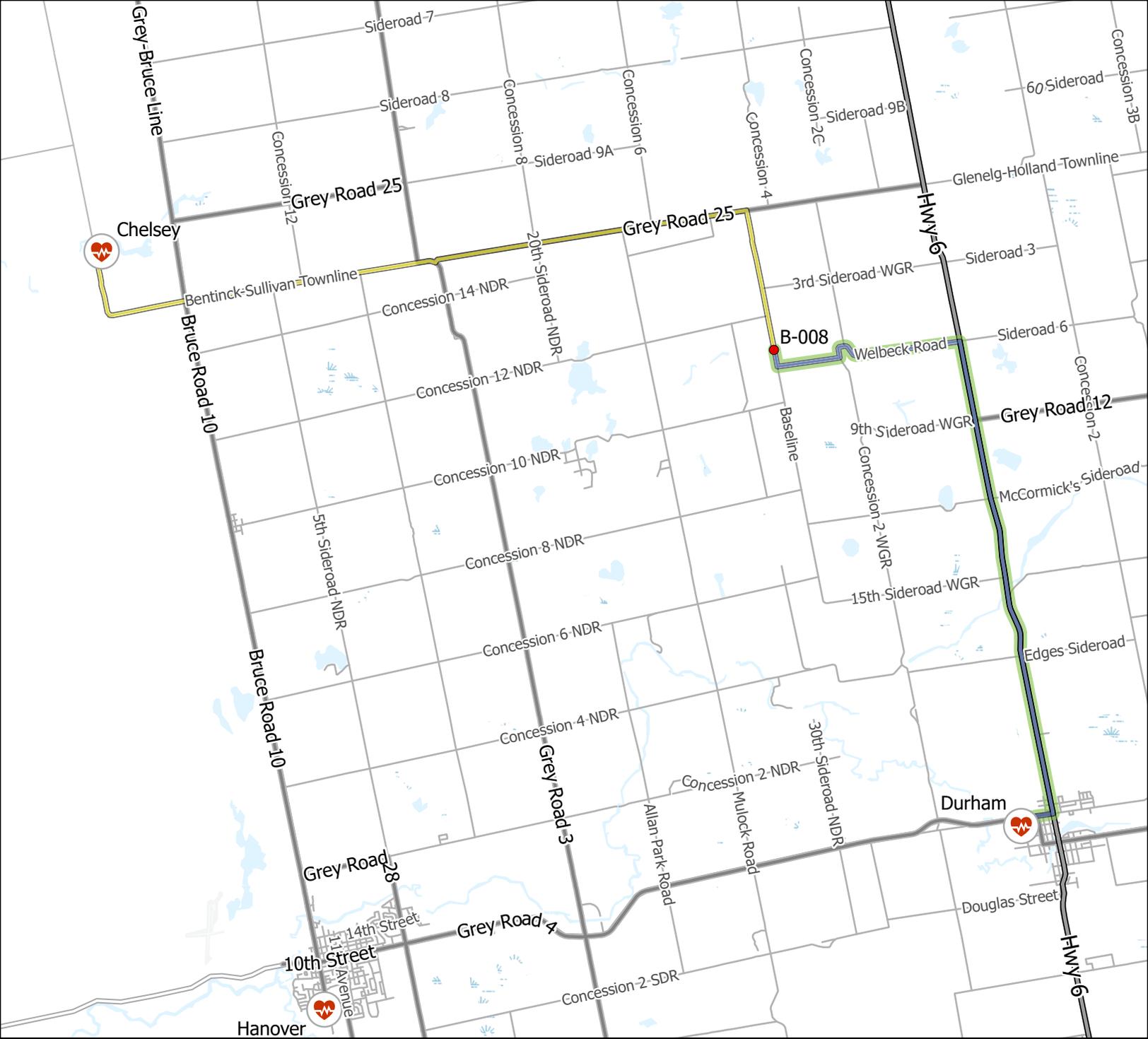NAD83 UTM Zone 17

Structure: B-020

Travel Time Difference: 2.4 minutes

- 🔴 Prioritized Structure
- 💟 Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

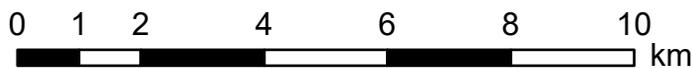| Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-020 - Durham	10.1	11.5	Original
B-020 - Durham	10.1	11.5	N/W Barrier
B-020 - Hanover	12.6	10.7	S/E Barrier

0 1 2 4 6 km
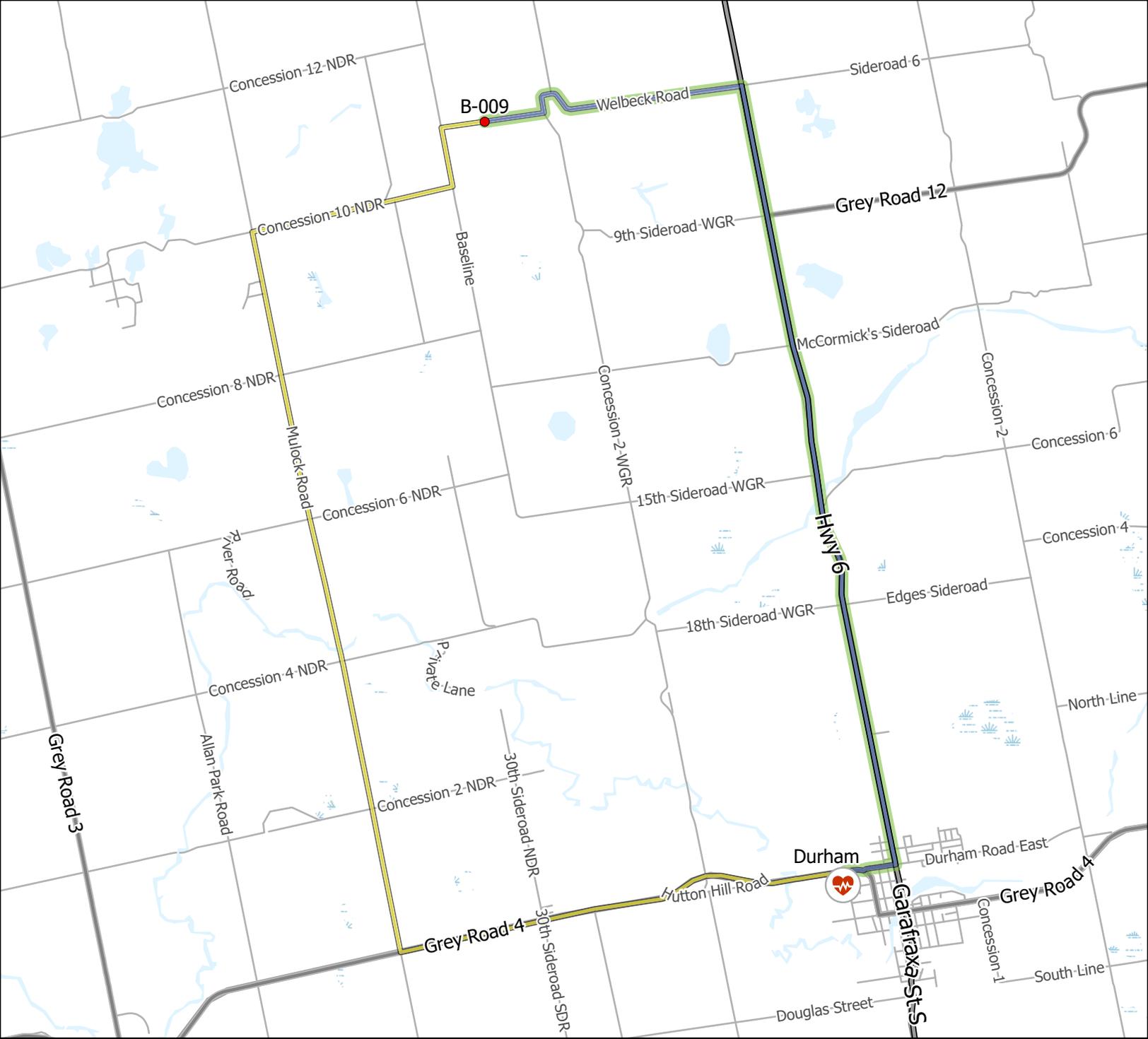
N

Structure: B-025

Travel Time Difference: 0.2 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-025 - Hanover	7.5	6.8	Original
B-025 - Hanover	7.5	6.8	N/W Barrier
B-025 - Hanover	7.7	7.0	S/E Barrier

0   1   2 km

N

Created by: Grey County GIS
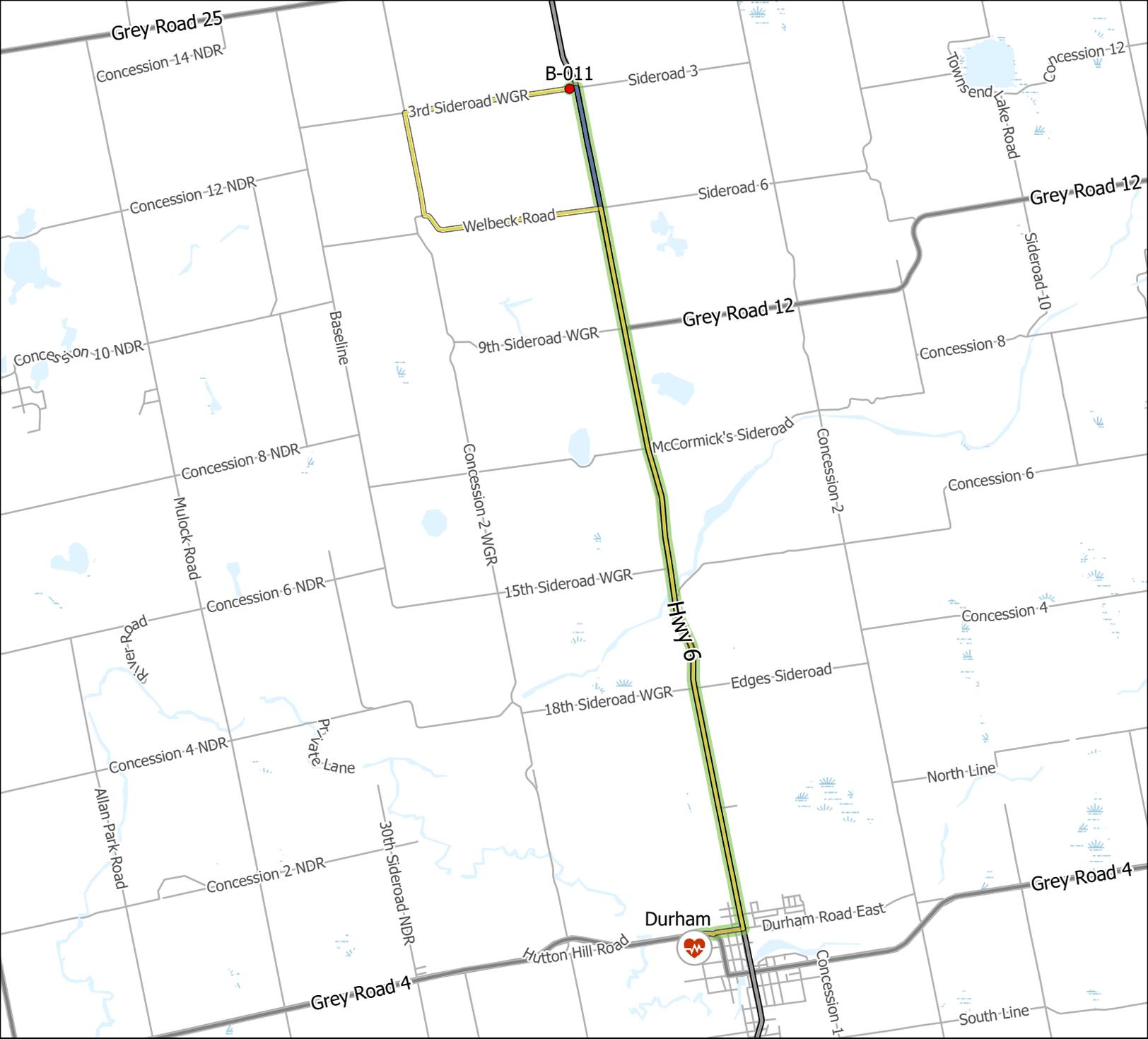Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: B-196

Travel Time Difference: 3.1 minutes

- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
B-196 - Durham	14.7	16.2	Original
B-196 - Durham	14.7	16.2	N/W Barrier
B-196 - Durham	17.8	21.1	S/E Barrier

0 1 2 4 6 km

N

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Date: Sept 5. 2024
NAD83 UTM Zone 17

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Structure: G-033

Travel Time Difference: 2.6 minutes

- 🔴 Prioritized Structure
- ❤️ Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-033 - Markdale	12.0	11.6	Original
G-033 - Markdale	14.6	12.7	N/W Barrier
G-033 - Markdale	12.0	11.6	S/E Barrier

0 1 2 km

N

Created by: Grey County GIS
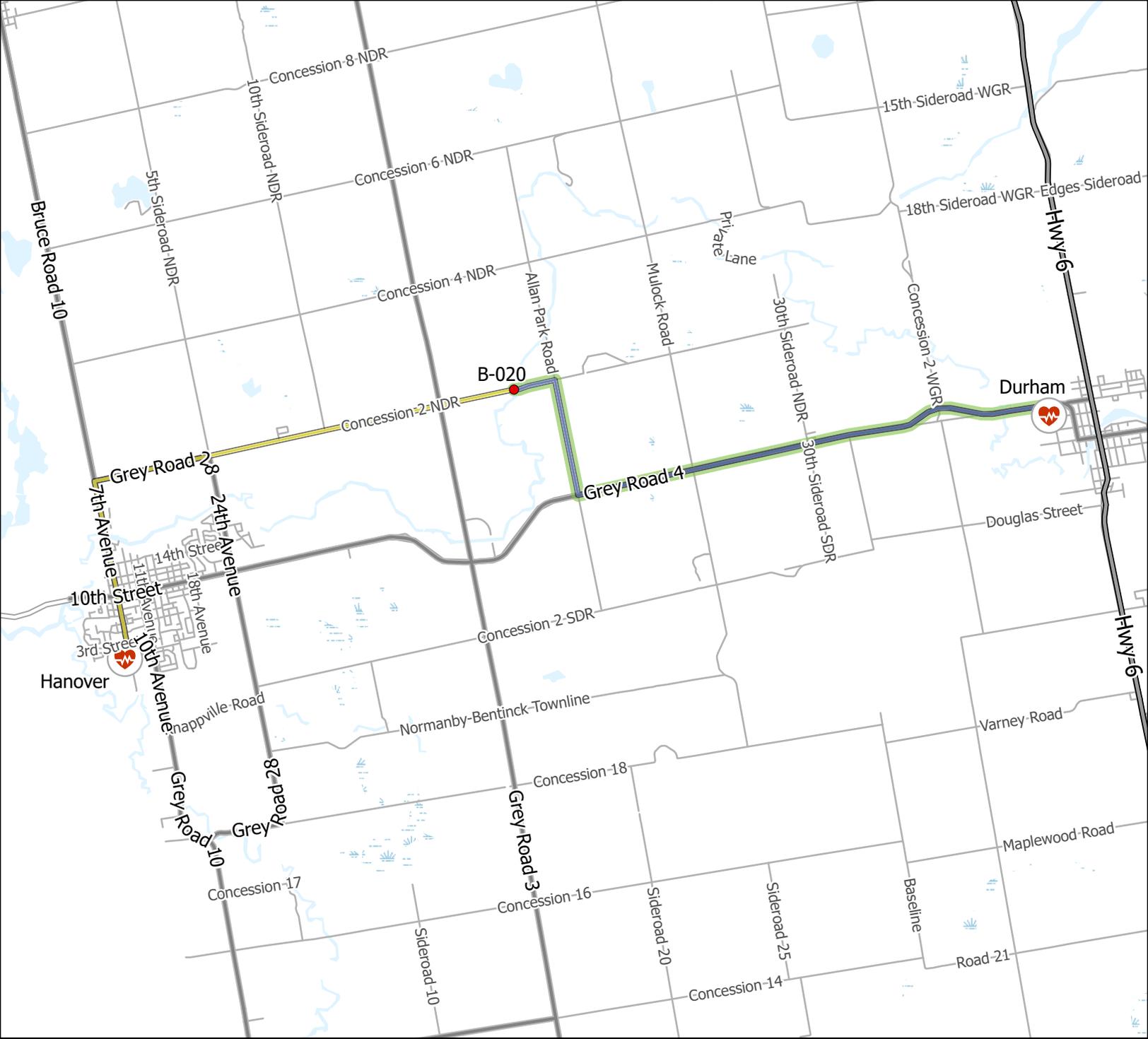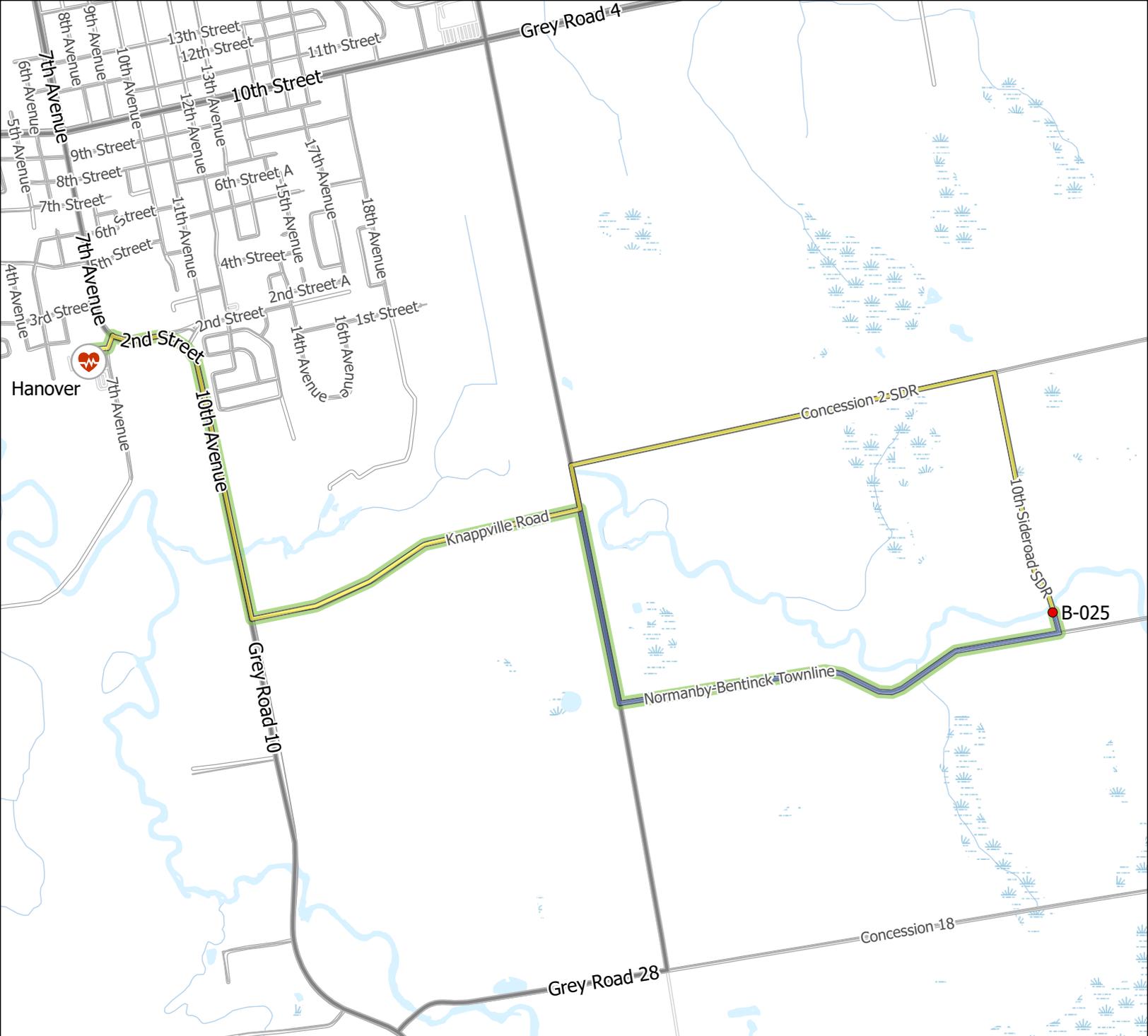Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: G-037

Travel Time Difference: 1.8 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-037 - Durham	10.0	8.3	Original
G-037 - Durham	11.8	10.7	N/W Barrier
G-037 - Durham	10.0	8.3	S/E Barrier

0   1   2 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17
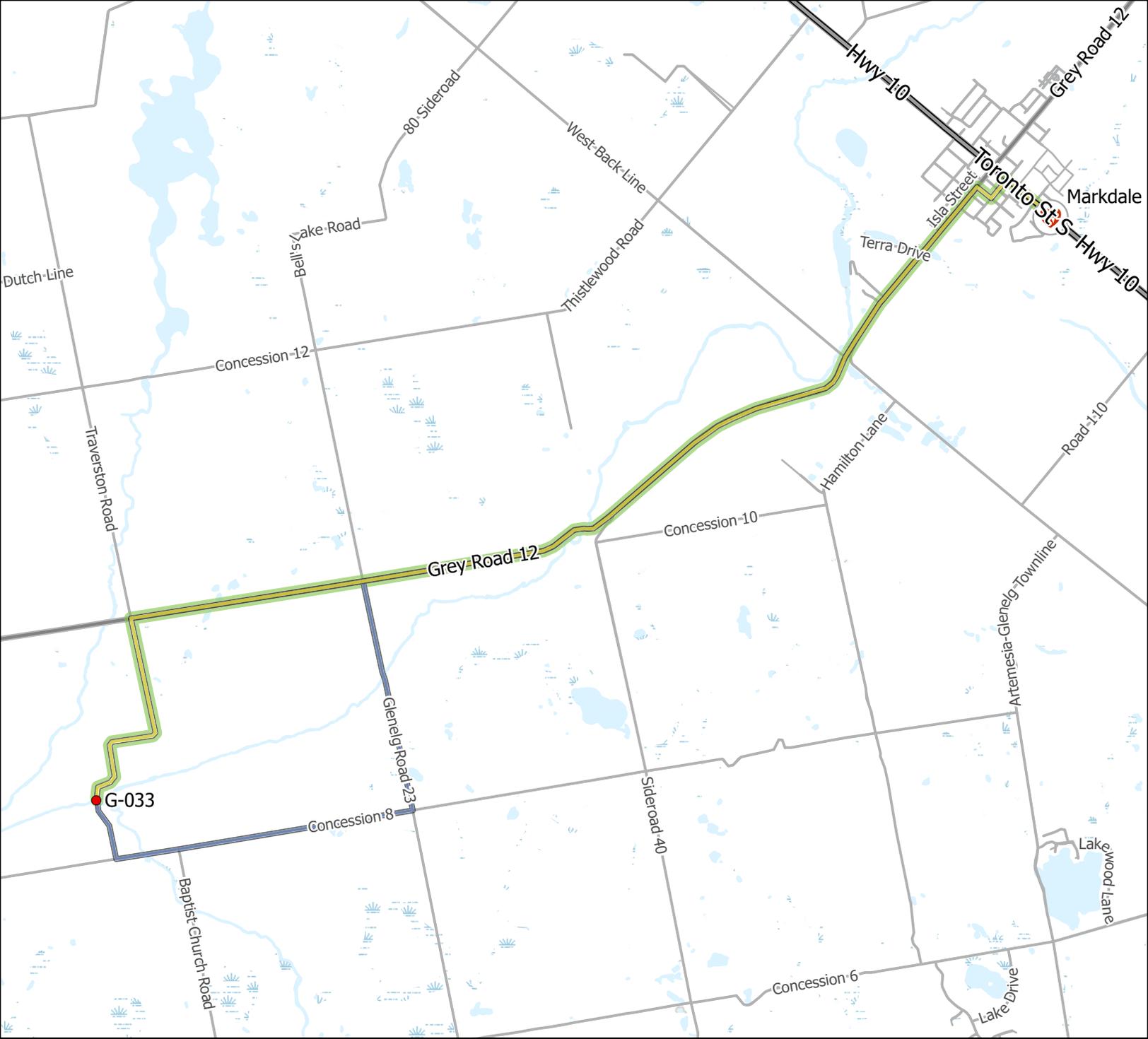
Structure: G-038

Travel Time Difference: 1.7 minutes

- 🔴 Prioritized Structure
- 🏥 Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-038 - Durham	10.0	8.4	Original
G-038 - Durham	11.7	10.6	N/W Barrier
G-038 - Durham	10.0	8.4	S/E Barrier

0   1   2 km

N

Created by: Grey County GIS
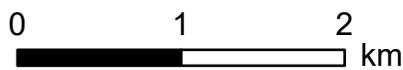Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: G-040

Travel Time Difference: 1.7 minutes

- 🔴 Prioritized Structure
- Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-040 - Durham	13.7	14.8	Original
G-040 - Durham	15.4	16.9	N/W Barrier
G-040 - Durham	13.7	14.8	S/E Barrier

0   1   2   4
km

N

Created by: Grey County GIS
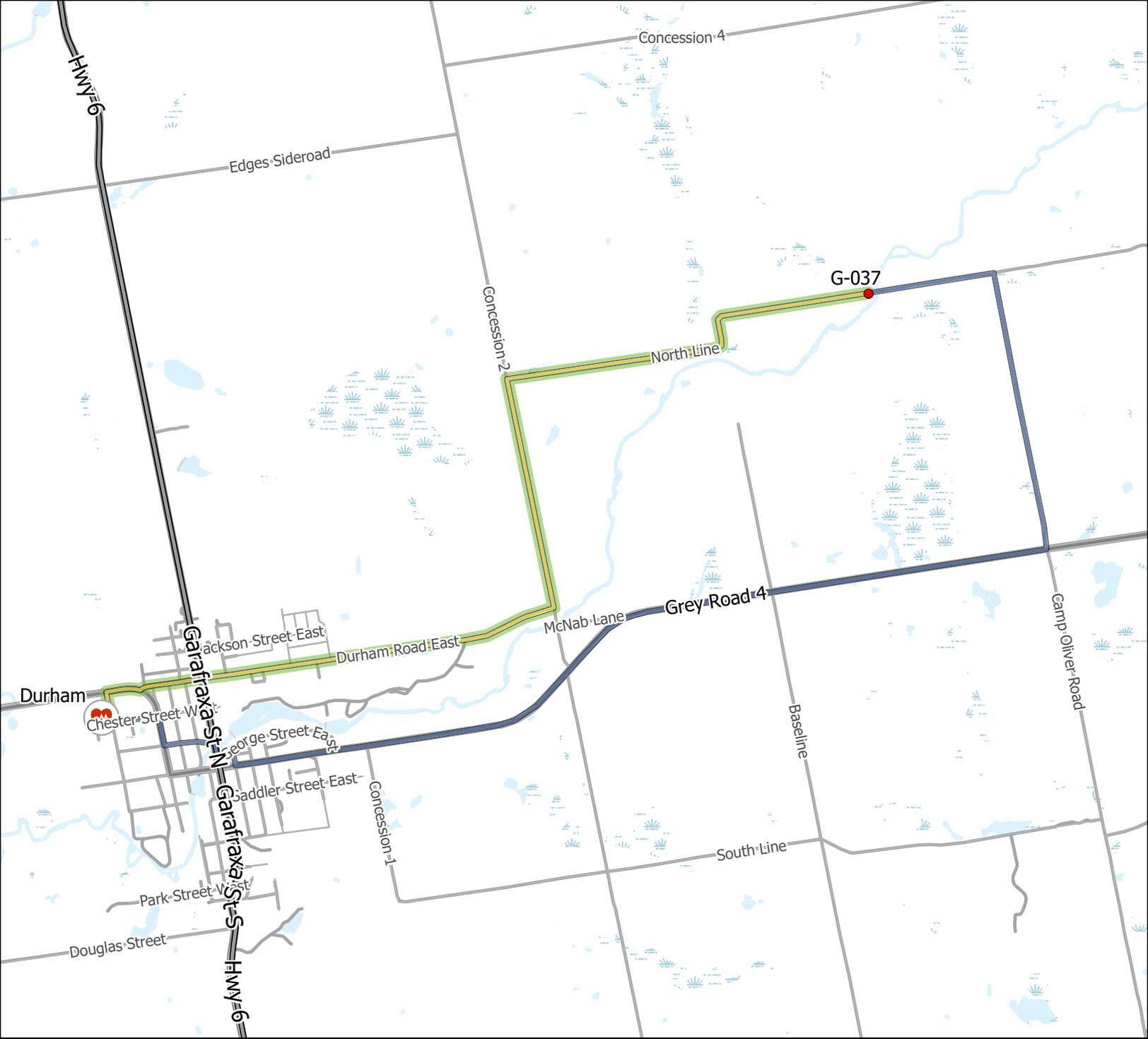Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: G-041

Travel Time Difference: 1.6 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-041 - Durham	13.7	14.9	Original
G-041 - Durham	15.3	16.8	N/W Barrier
G-041 - Durham	13.7	14.9	S/E Barrier

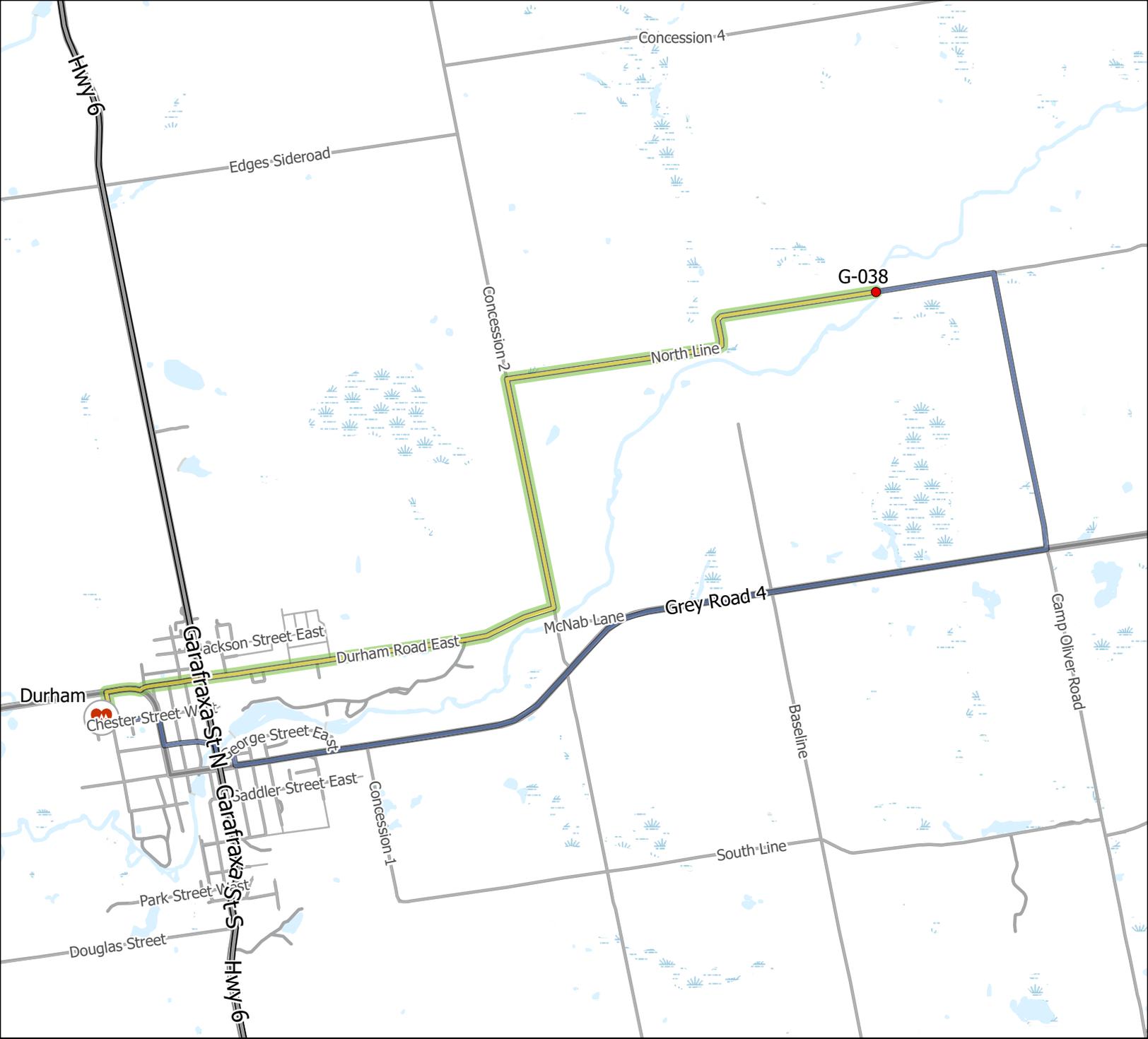0 1 2 4 km
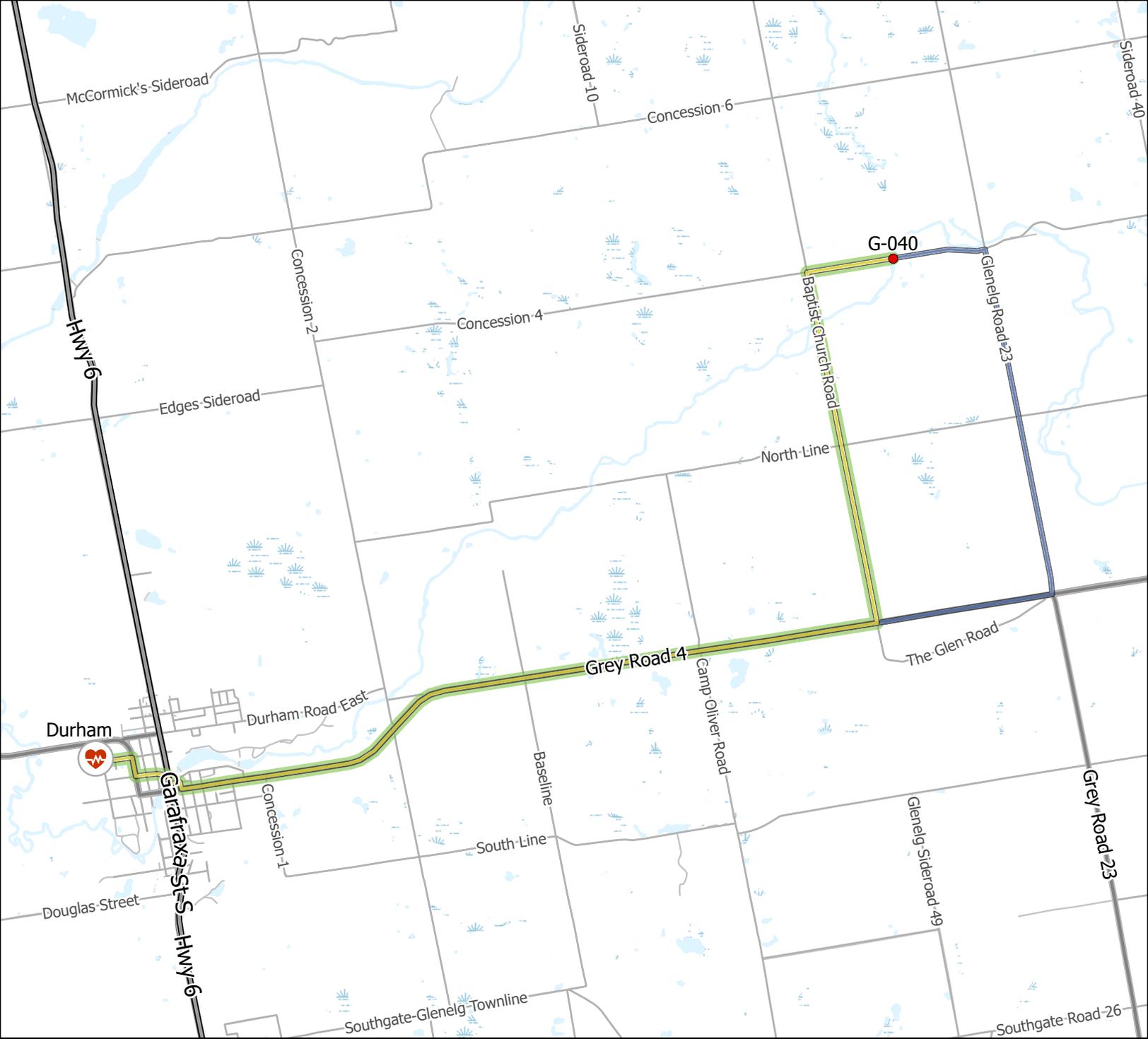
N

Structure: G-044

Travel Time Difference: 5.2 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-044 - Durham	13.0	14.1	Original
G-044 - Markdale	18.1	17.8	N/W Barrier
G-044 - Durham	13.0	14.1	S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17

Structure: G-132

Travel Time Difference: Baseline not a through road. Closure of G-132 would require full road closure north of structure
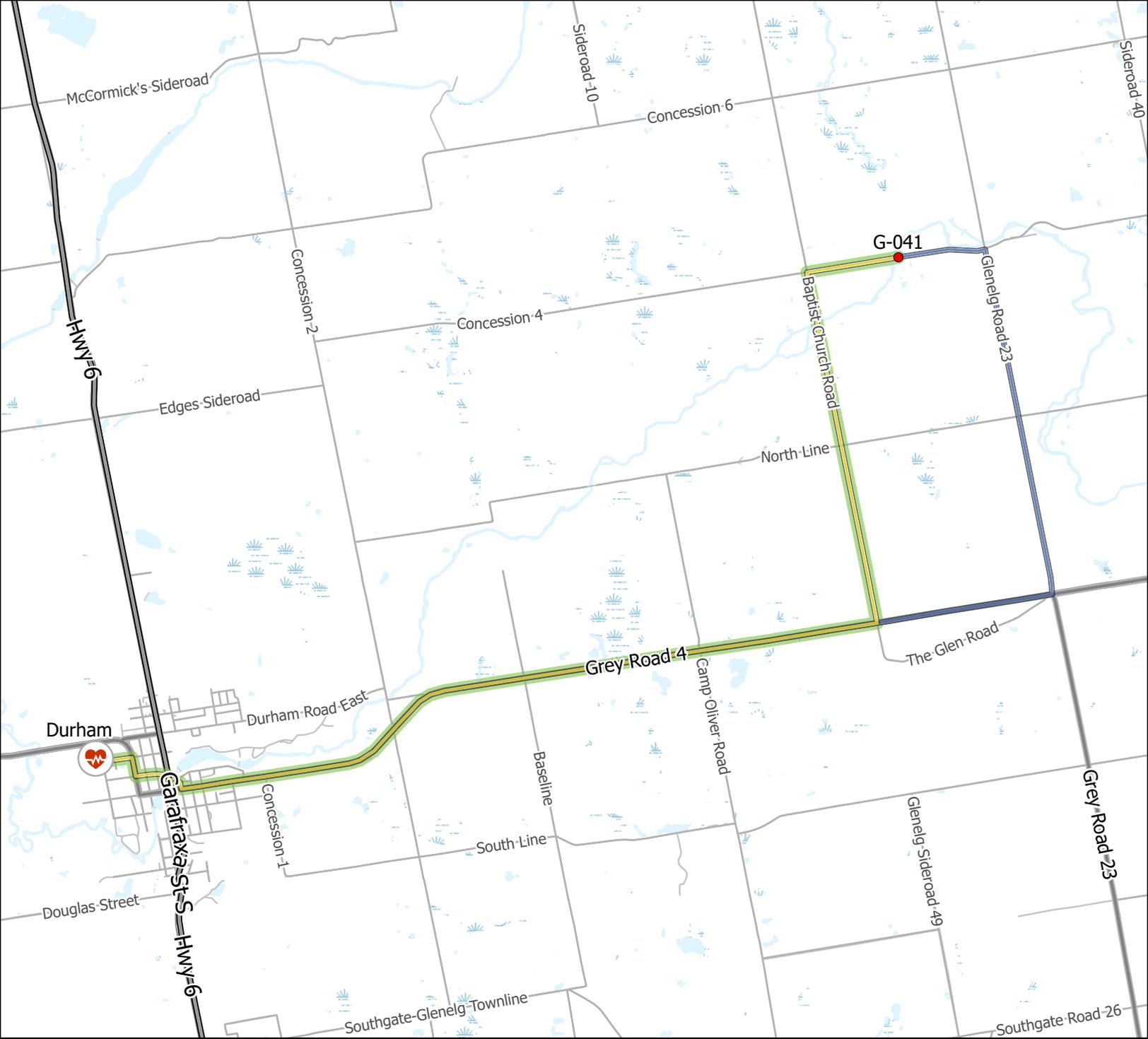
- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-132 - Durham	7.2	6.0	Original
G-132 - Durham	7.2	6.0	N/W Barrier

0 1 2 km

N
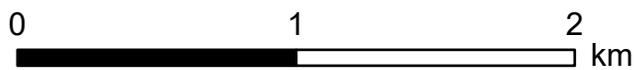
Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17
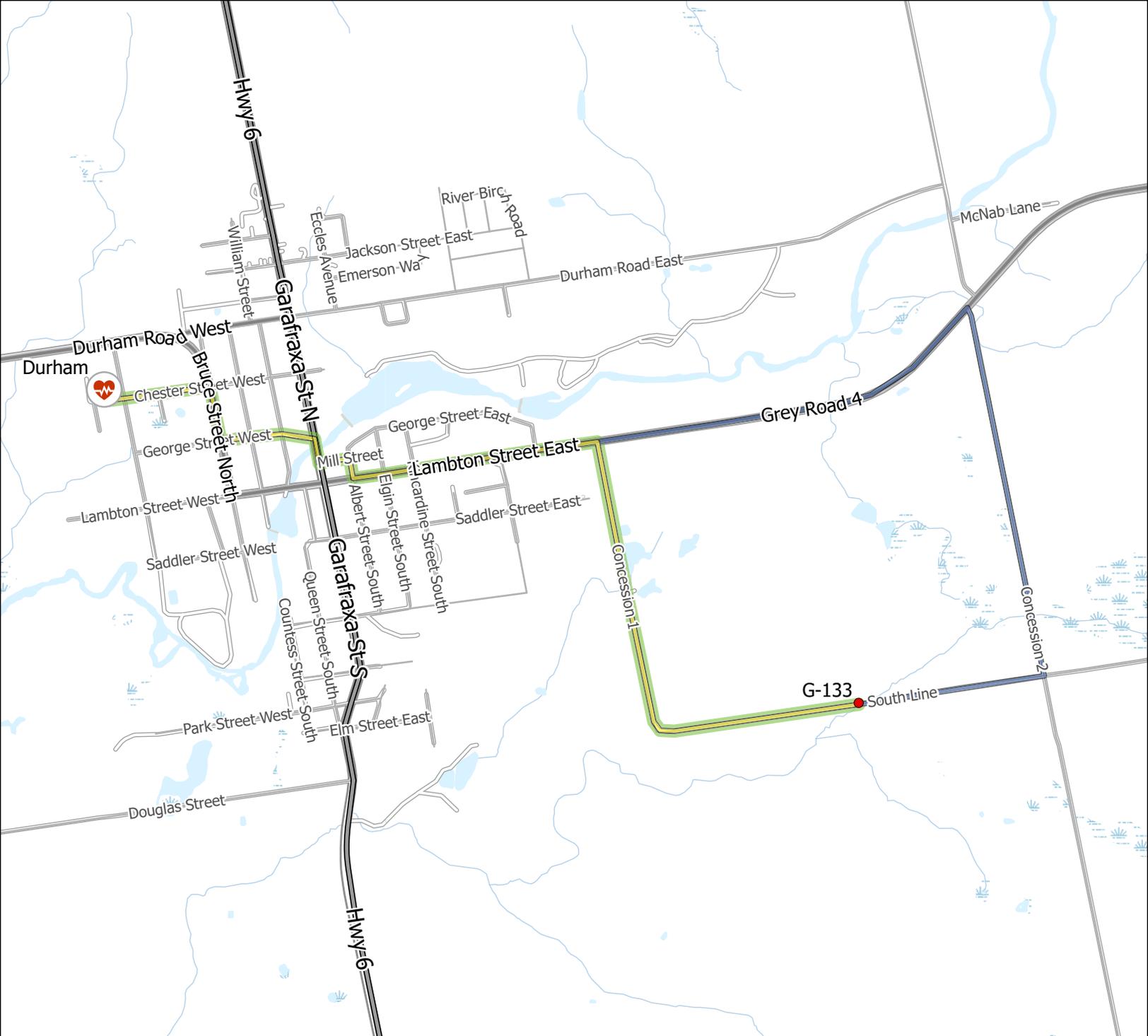
Structure: G-133

Travel Time Difference: 1.1 minutes

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
G-133 - Durham	6.3	4.3	Original
G-133 - Durham	7.4	6.2	N/W Barrier
G-133 - Durham	6.3	4.3	S/E Barrier

- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

0   1   2 m

N

Created by: Grey County GIS
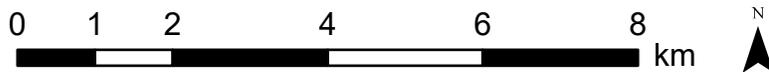Date: Sept 5. 2024
NAD83 UTM Zone 17
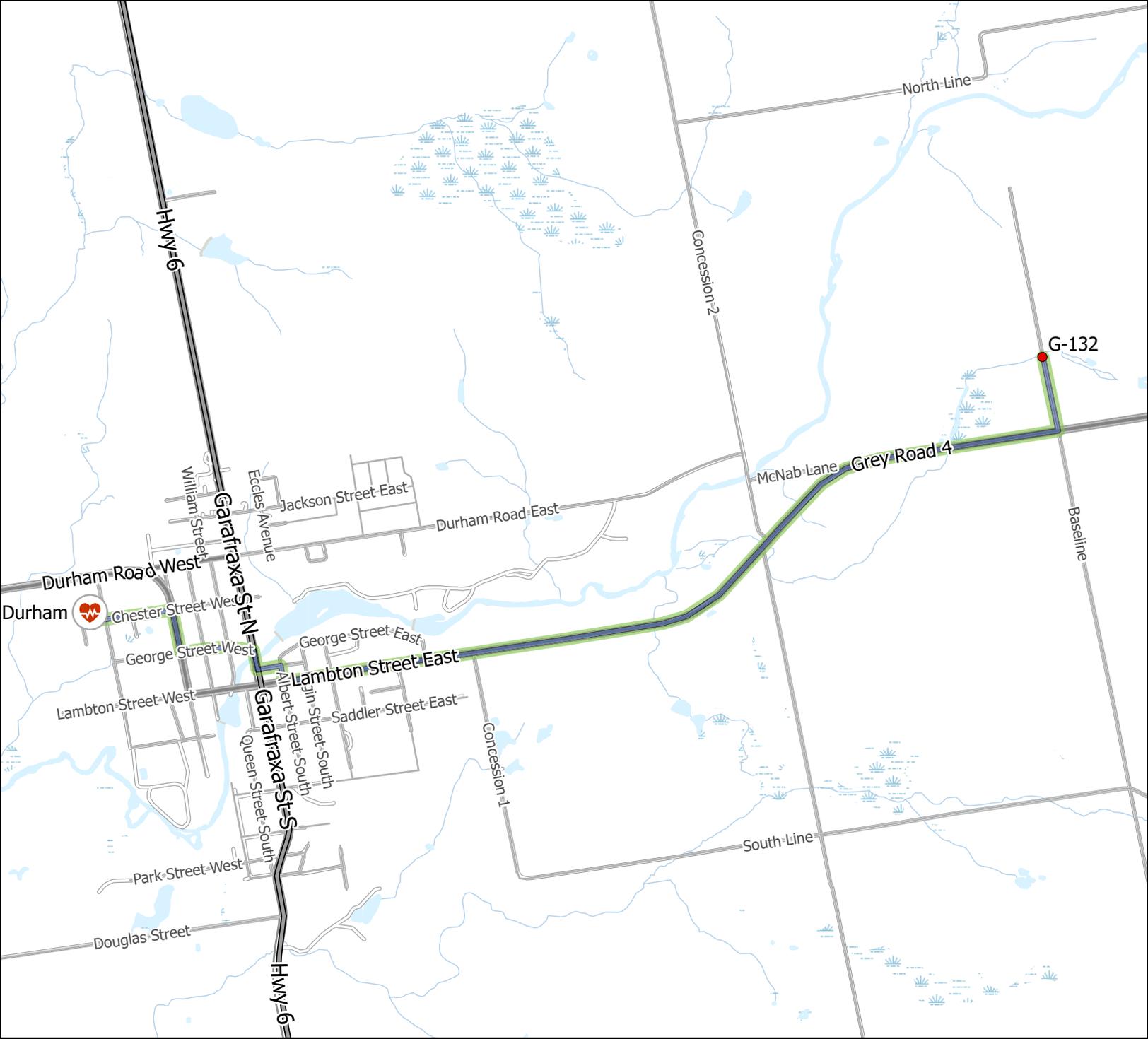
Structure: N-051

Travel Time Difference: 3.7 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-051 - Hanover	8.7	9.4	Original
N-051 - Durham	12.5	15.1	N/W Barrier
N-051 - Hanover	8.7	9.4	S/E Barrier

0 1 2 4 6 km

N

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Date: Sept 5. 2024
NAD83 UTM Zone 17

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Structure: N-058

Travel Time Difference: 2.5 minutes

- ● Prioritized Structure
- (♥) Hospital
- ▬ Original (Fastest)
- ▬ N/W Barrier
- ▬ S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-058 - Durham	15.9	16.5	Original
N-058 - Durham	15.9	16.5	N/W Barrier
N-058 - Hanover	18.4	21.5	S/E Barrier

0 1 2 4 6 8 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17

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Structure: N-060

Travel Time Difference: 3.2 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-060 - Durham	15.5	16.1	Original
N-060 - Durham	15.5	16.1	N/W Barrier
N-060 - Hanover	18.7	21.9	S/E Barrier

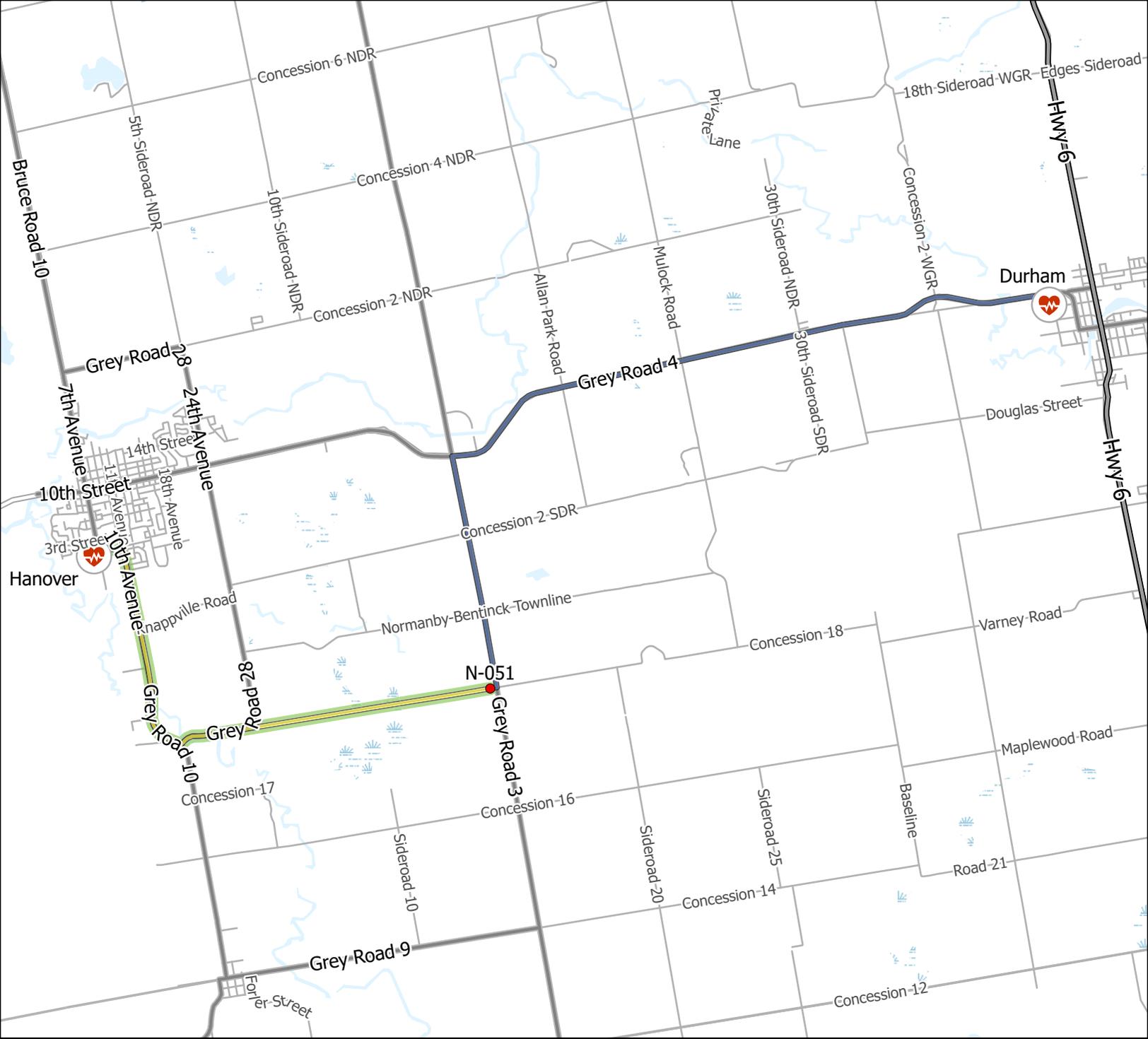0 1 2 4 6 8 km

N

Structure: N-061

Travel Time Difference: 1.4 minutes

- 🔴 Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

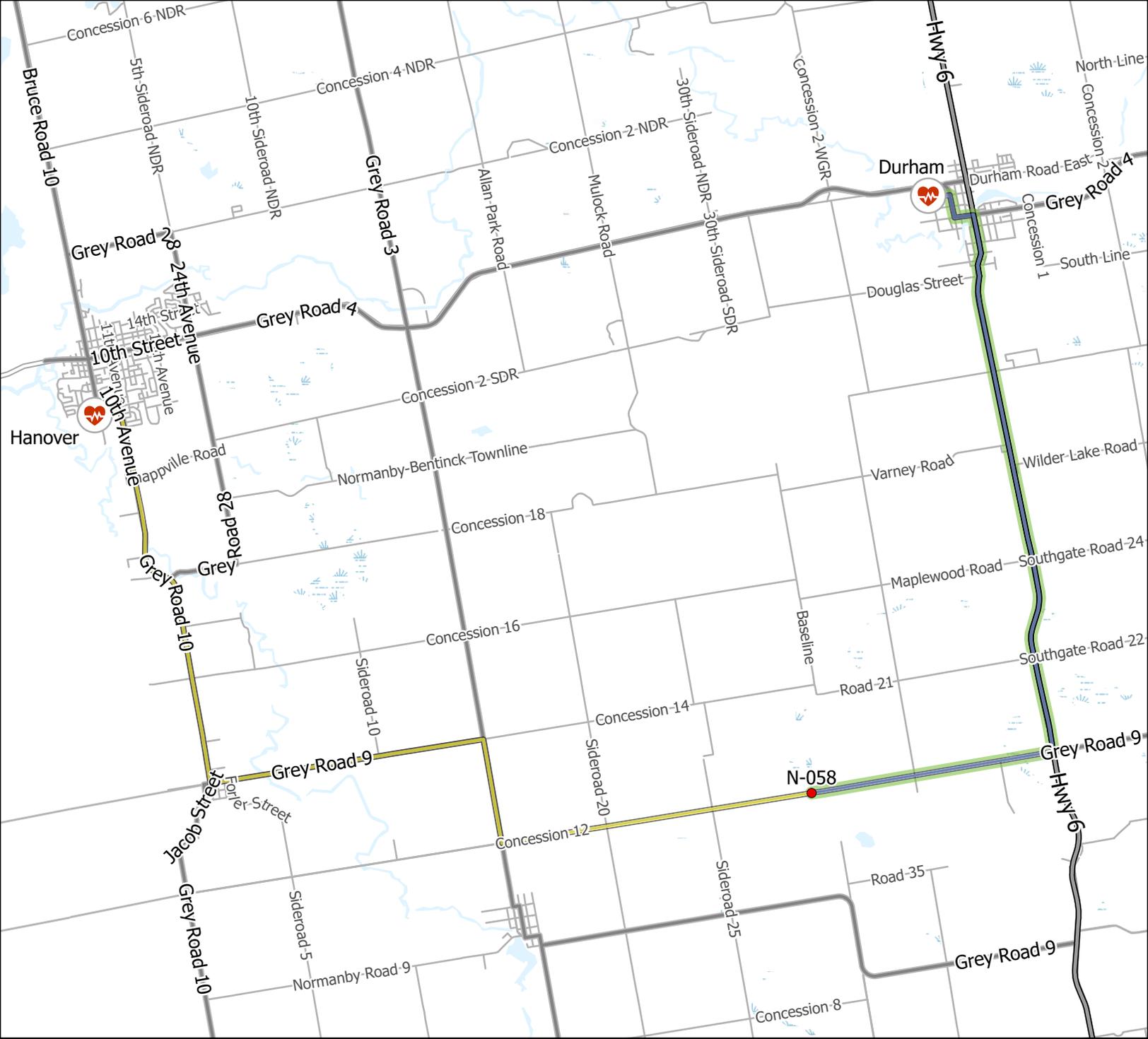| Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-061 - Durham	15.7	14.6	Original
N-061 - Durham	15.7	14.6	N/W Barrier
N-061 - Hanover	17.1	19.3	S/E Barrier

0 1 2 4 6 8 km

N

Structure: N-070

Travel Time Difference: 4.8 minutes

- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

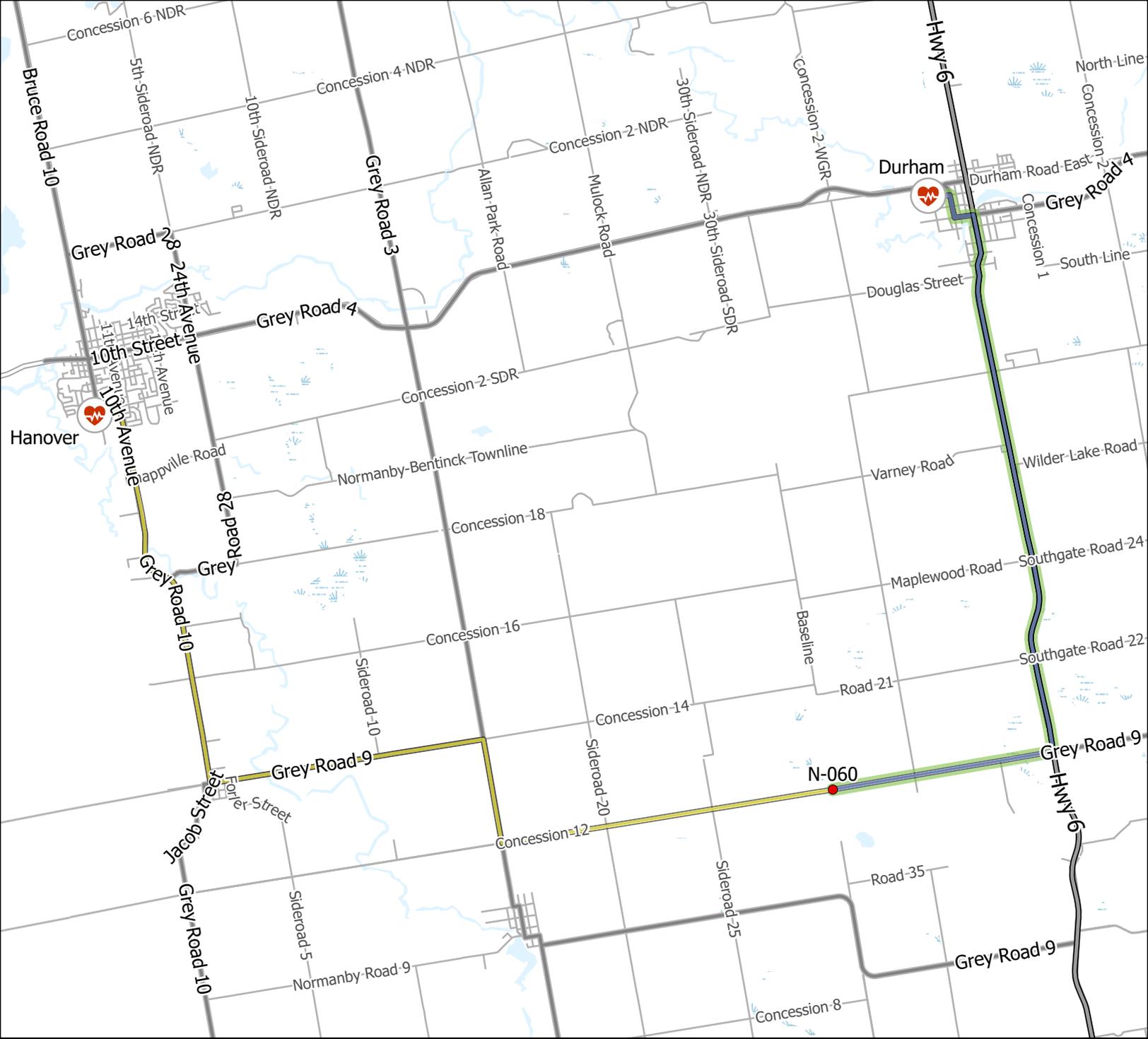| Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-070 - Mount Forest	5.7	5.3	Original
N-070 - Mount Forest	5.7	5.3	N/W Barrier
N-070 - Mount Forest	10.4	7.7	S/E Barrier

0   1   2 km

N
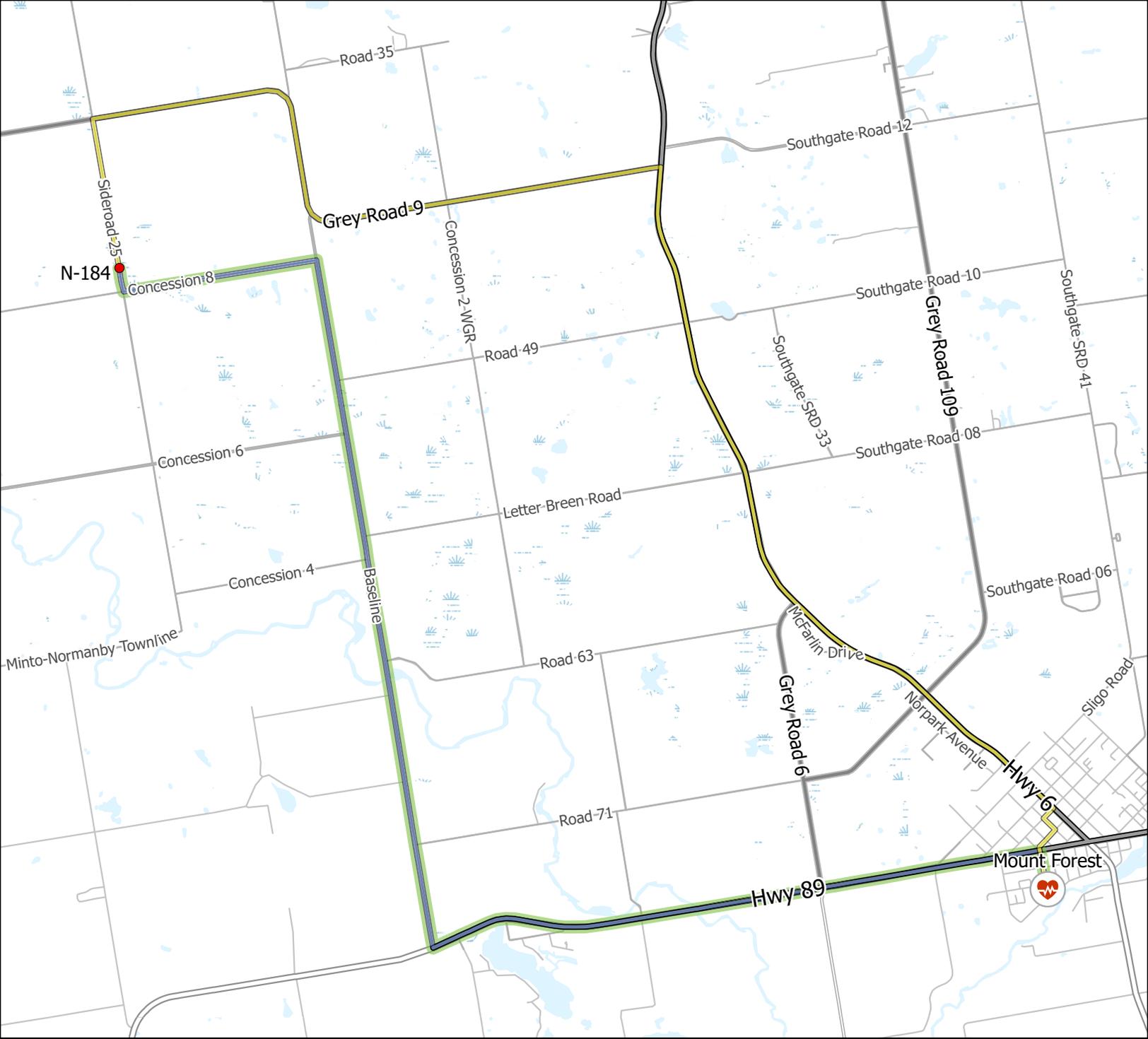
Structure: N-184

Travel Time Difference: 2.7 minutes

- ● Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-184 - Mount Forest	15.3	18.4	Original
N-184 - Mount Forest	15.3	18.4	N/W Barrier
N-184 - Mount Forest	18.0	20.1	S/E Barrier

0   1   2   4   km

N
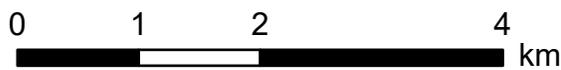
Created by: Grey County GIS
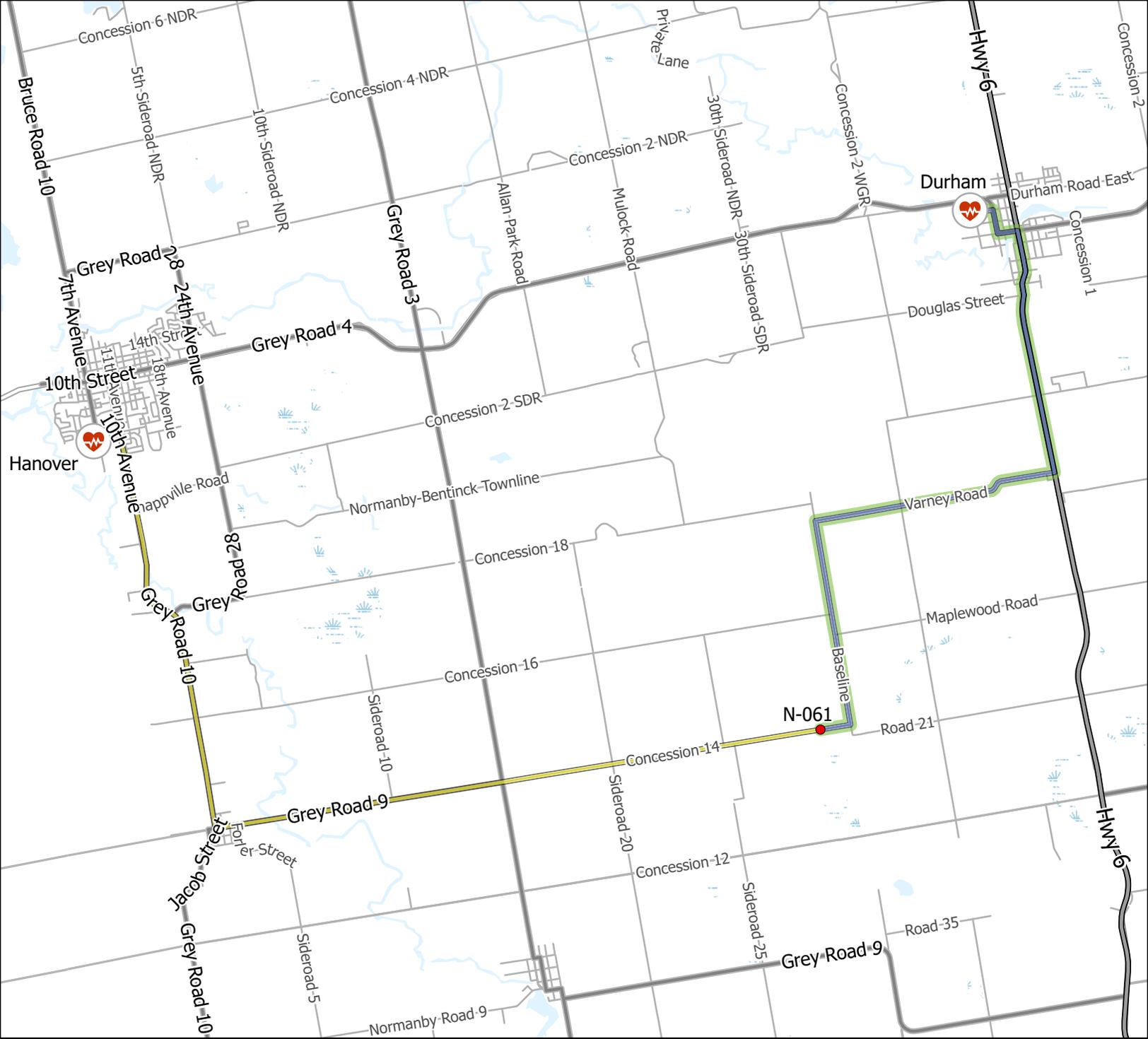Date: Sept 5. 2024
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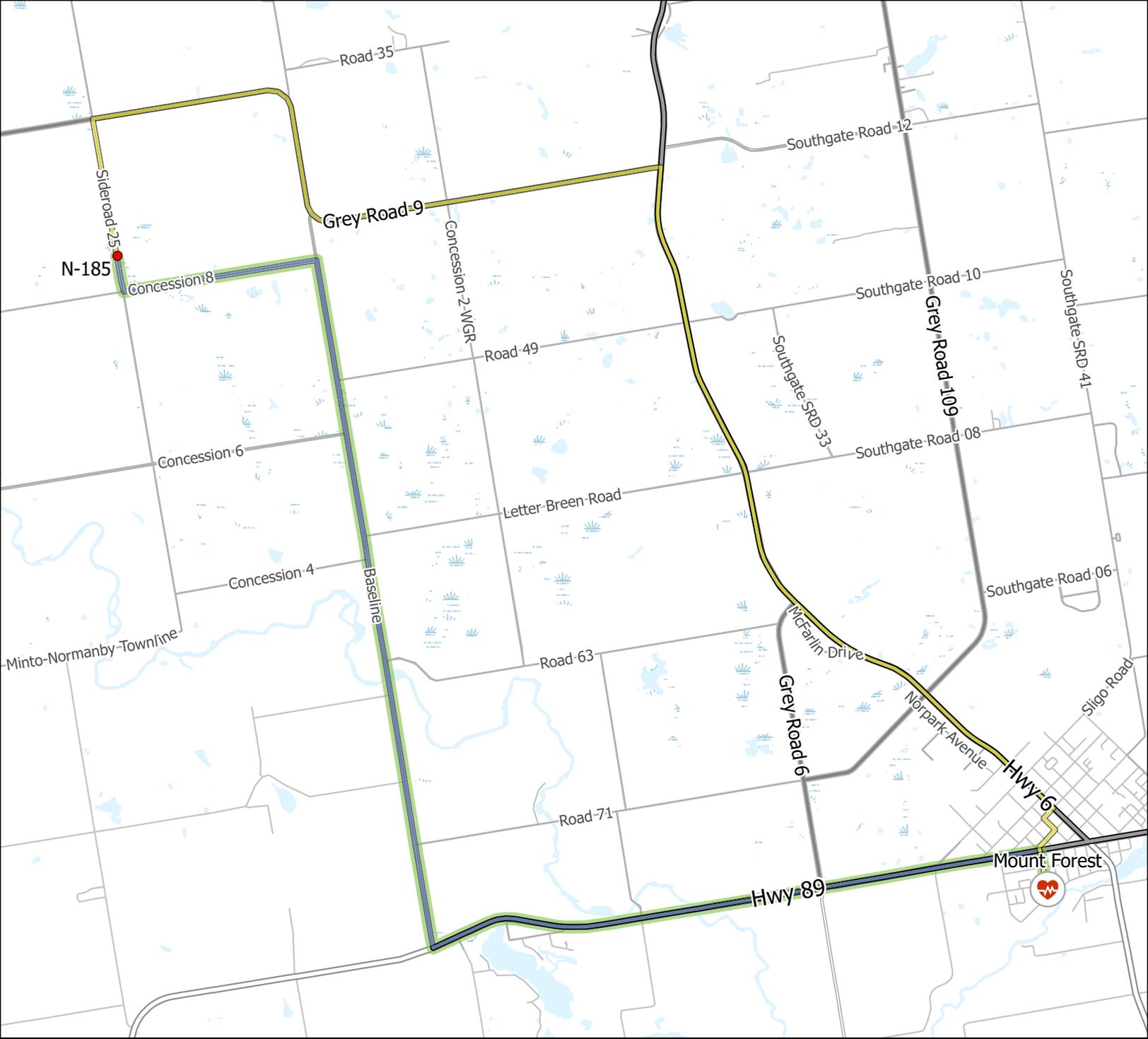
Structure: N-185

Travel Time Difference: 2.4 minutes

- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

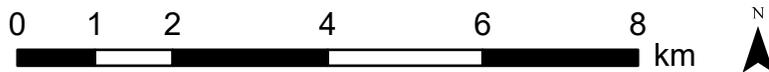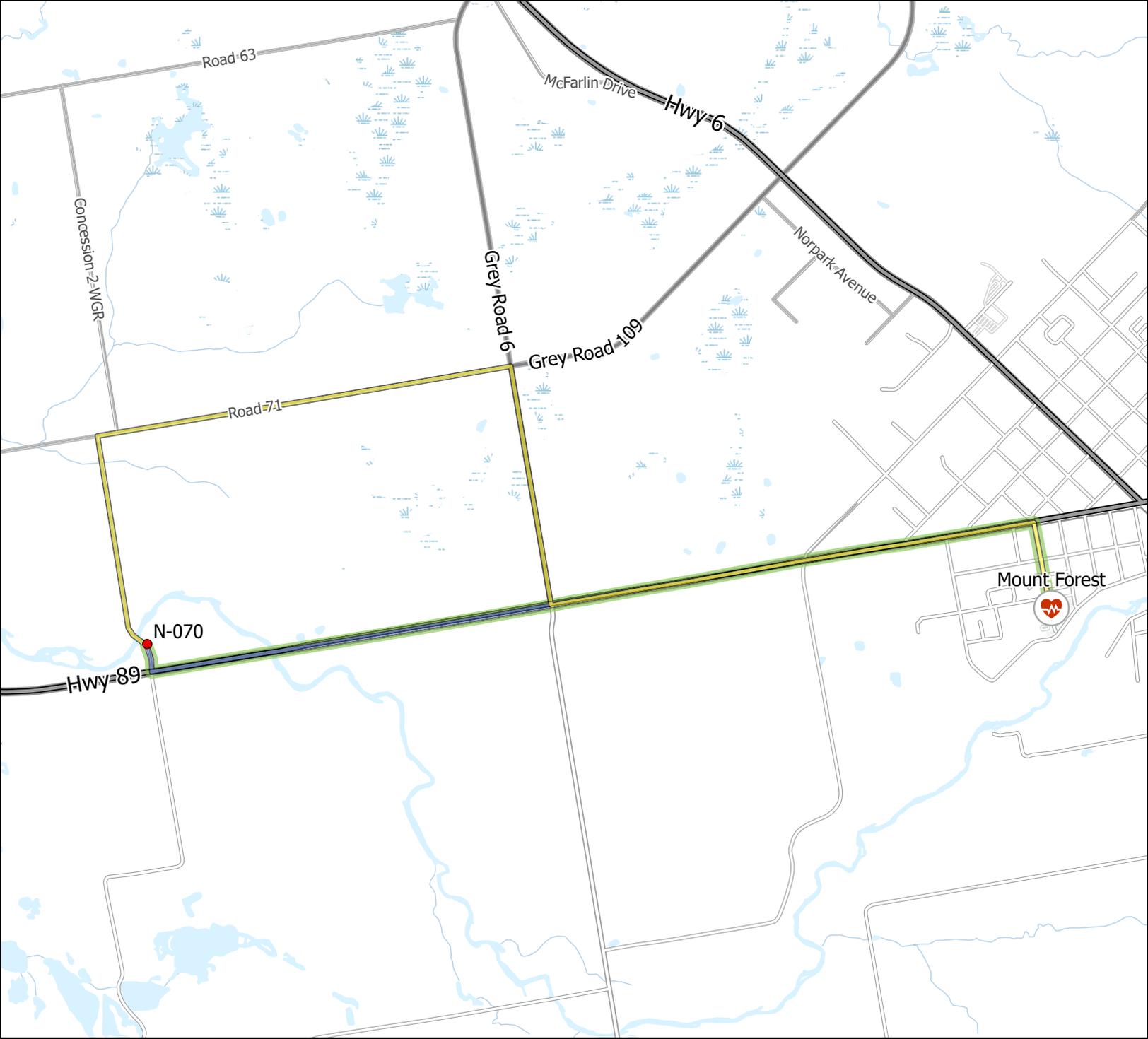| Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-185 - Mount Forest	15.5	18.5	N/W Barrier
N-185 - Mount Forest	17.9	19.9	S/E Barrier
N-185 - Mount Forest	15.5	18.5	Original

0 1 2 4 km

N
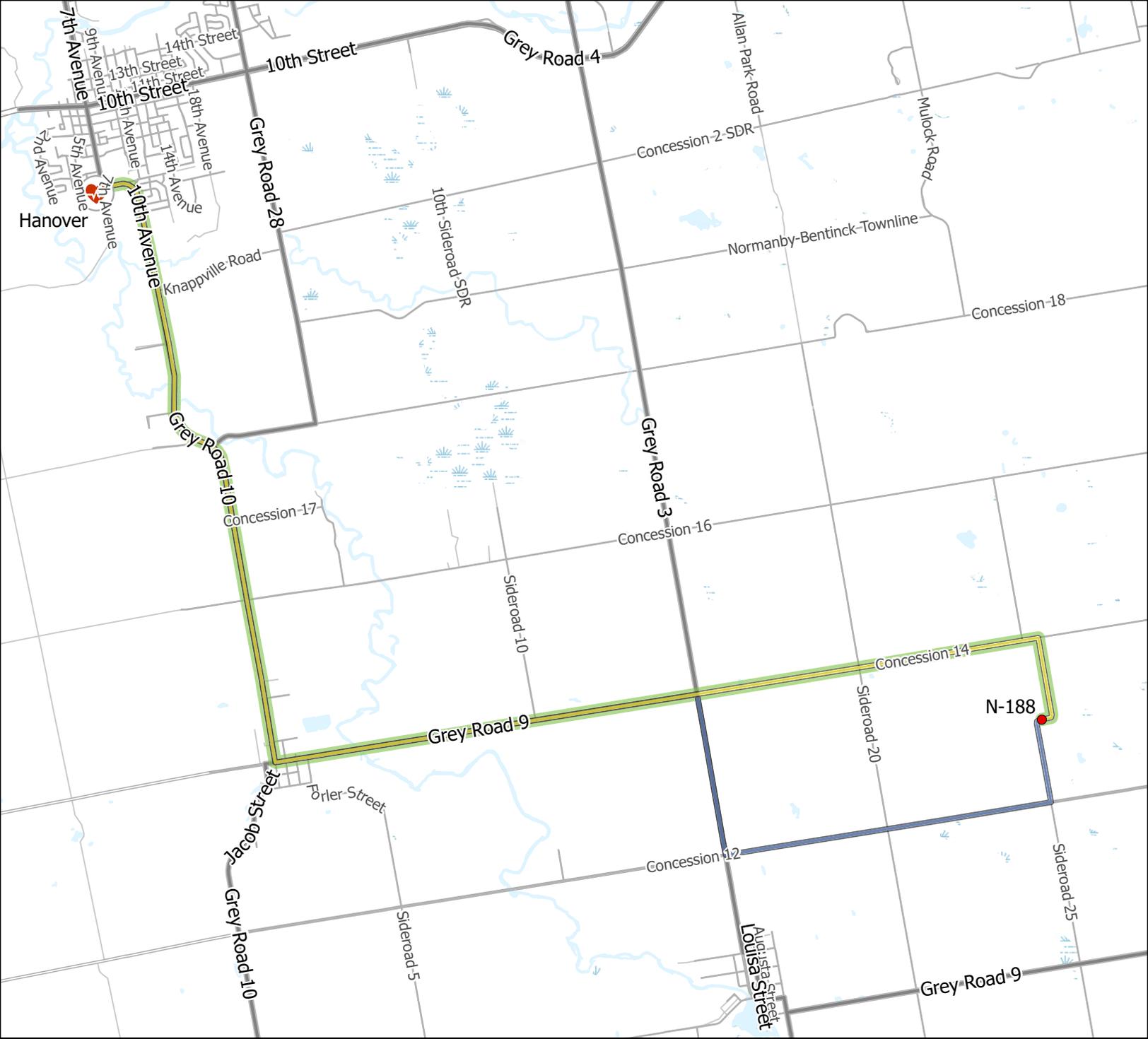
Structure: N-188

Travel Time Difference: 1.4 minutes

- Prioritized Structure
- Hospital
- Original (Fastest)
- N/W Barrier
- S/E Barrier

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-188 - Hanover	18.4	20.6	N/W Barrier
N-188 - Hanover	17.1	18.9	S/E Barrier
N-188 - Hanover	17.1	18.9	Original

0 1 2 4 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17

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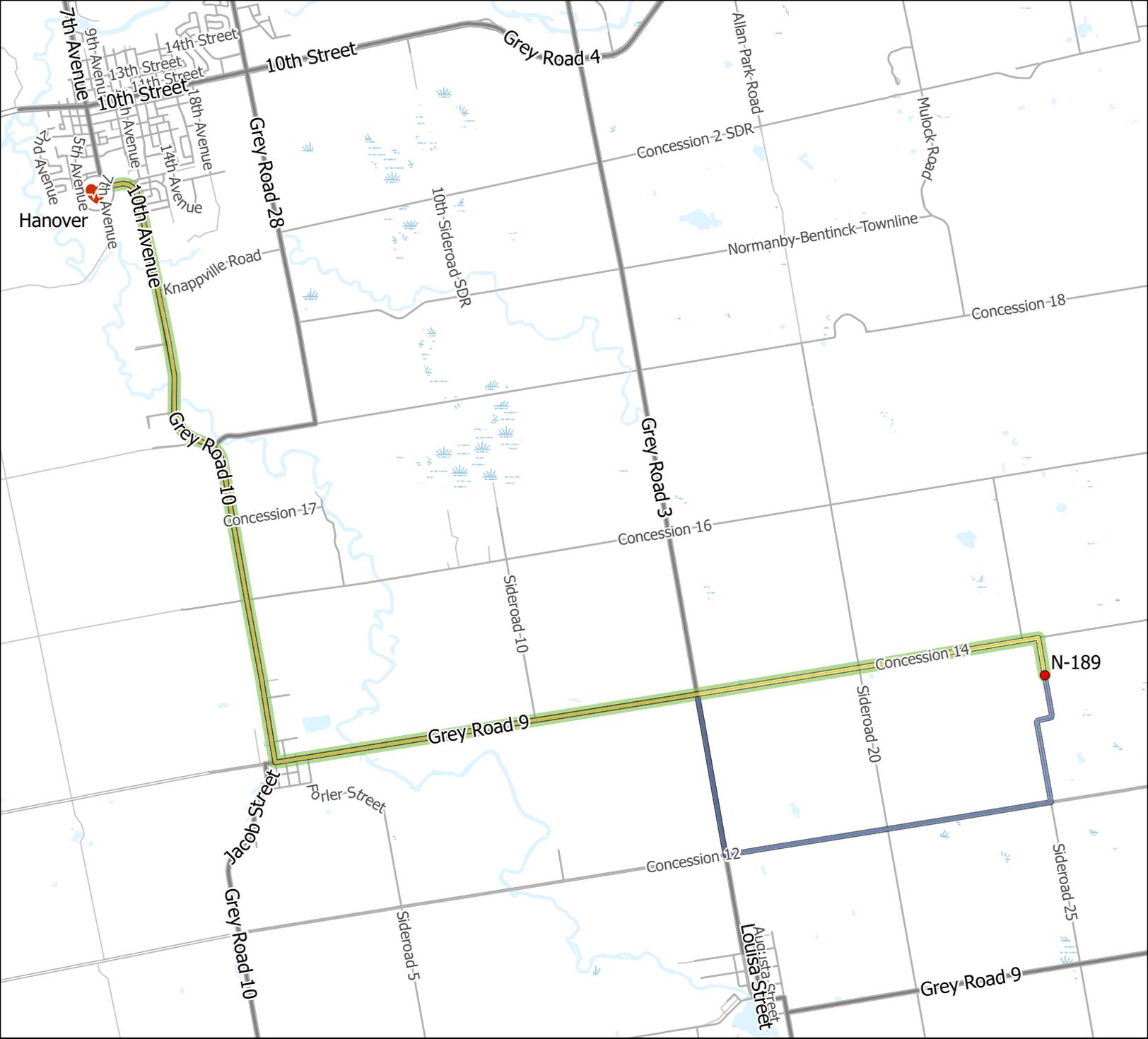
Structure: N-189

Travel Time Difference: 2.9 minutes

- **Prioritized Structure**
- **Hospital**
- **Original (Fastest)**
- **N/W Barrier**
- **S/E Barrier**

Name - Closest Hospital	Travel Time (min)	Kilometers	Scenario
N-189 - Hanover	19.2	21.3	N/W Barrier
N-189 - Hanover	16.3	18.2	S/E Barrier
N-189 - Hanover	16.3	18.2	Original

0 1 2 4 km

N

Created by: Grey County GIS
Date: Sept 5. 2024
NAD83 UTM Zone 17

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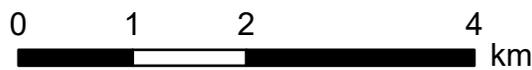
APPENDIX E

STRUCTURE DETOUR MAPS
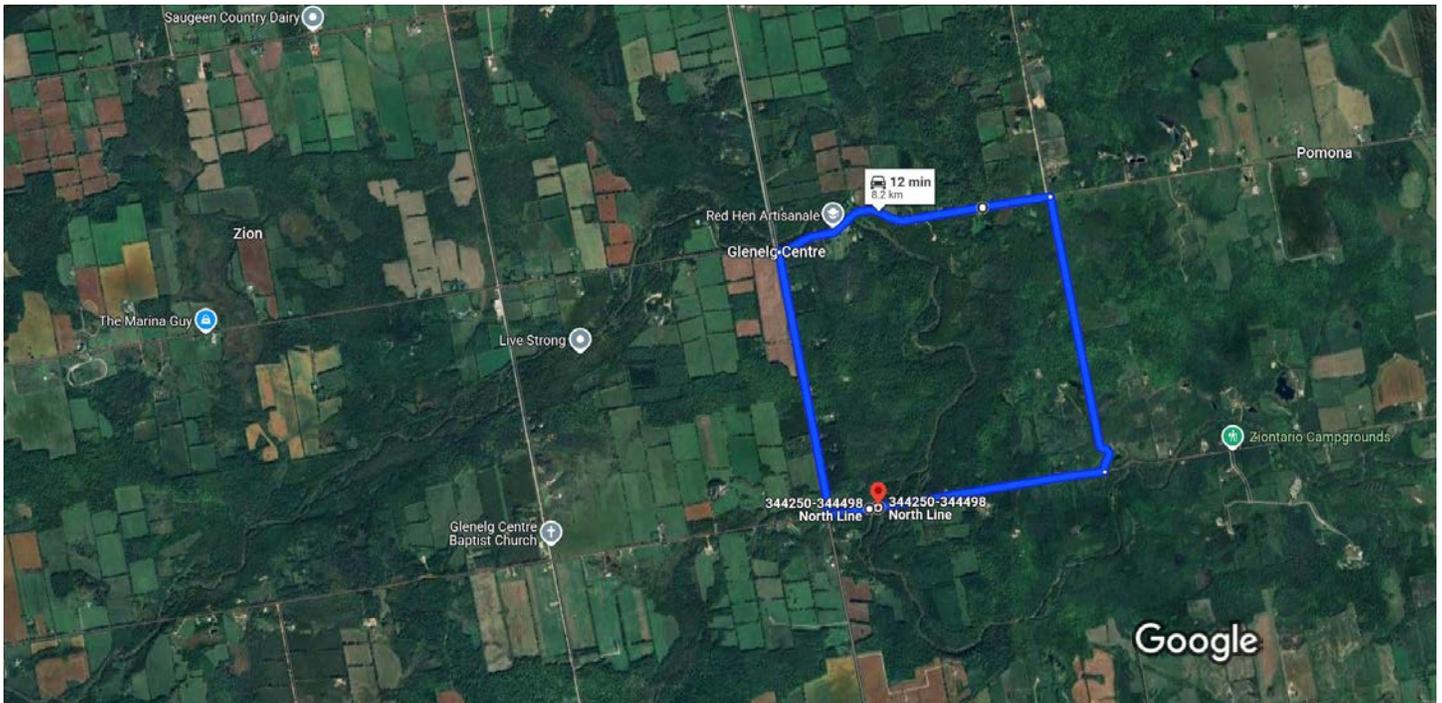
Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

344250-344498 N Line

Priceville, ON N0C 1K0

↑ 1. Head west on N Line toward Glenelg Rd 23/County Rd 23

_____ 300 m

↱ 2. Turn right at the 1st cross street onto Glenelg Rd 23/County Rd 23

_____ 2.0 km

↱ 3. Turn right at the 1st cross street onto Concession Rd 4

_____ 2.1 km

↱ 4. Turn right onto Side Rd 40

_____ 2.1 km

↱ 5. Turn right onto N Line

_____ 1.7 km

344250-344498 N Line

Priceville, ON N0C 1K0

Google Maps   172309-172399 Side Rd 25, West Grey, ON N0G 2M0   Drive 8.5 km, 9 min
to 172309-172399 Side Rd 25, West Grey, ON N0G 2M0

N-189

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

172309-172399 Side Rd 25

West Grey, ON N0G 2M0

↑   1.   Head south on Side Rd 25 toward Concession Rd 12

1.9 km

↱   2.   Turn right at the 1st cross street onto Concession Rd 12

2.0 km

↱   3.   Turn right onto Side Rd 20

2.0 km

↱   4.   Turn right onto Concession Rd 14

2.2 km

↱   5.   Turn right onto Side Rd 25

350 m

172309-172399 Side Rd 25
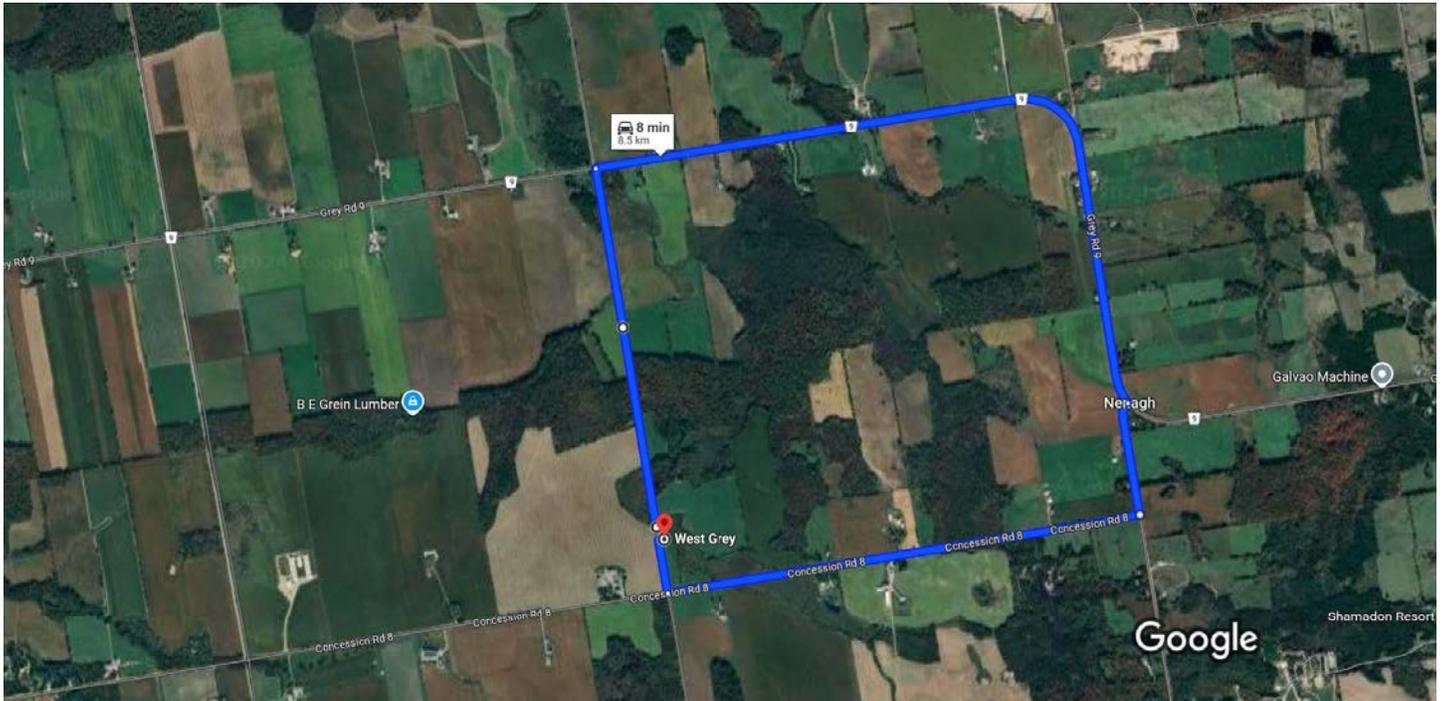
West Grey, ON N0G 2M0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

171601-171899 Side Rd 25

Ayton, ON N0G 1C0

↑ 1. Head north on Side Rd 25 toward Grey County Rd 9

———————————————————————— 1.7 km

↱ 2. Turn right at the 1st cross street onto Grey County Rd 9

———————————————————————— 3.7 km

↱ 3. Turn right onto Baseline Rd

———————————————————————— 550 m

↱ 4. Turn right onto Concession Rd 8

———————————————————————— 2.3 km

↱ 5. Turn right onto Side Rd 25
      ℹ Destination will be on the right
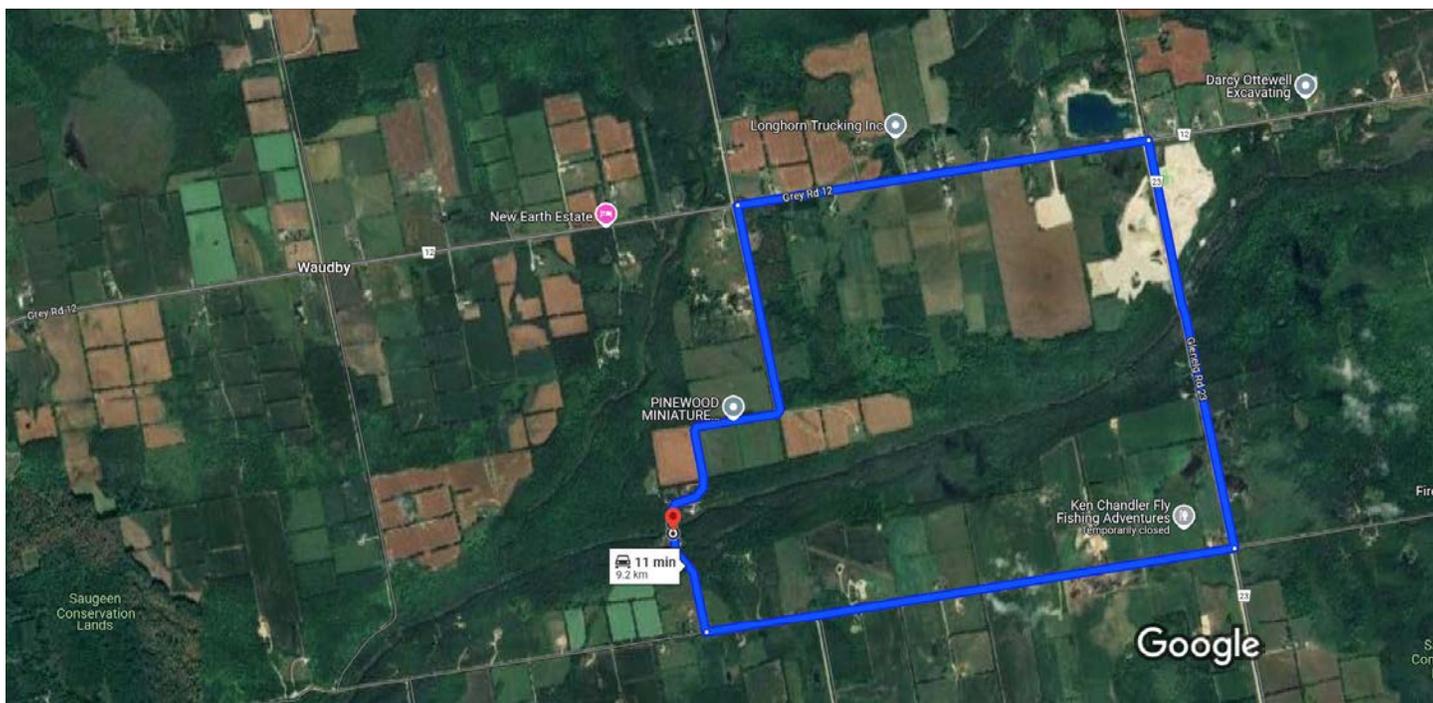
———————————————————————— 260 m

West Grey

Ontario

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

Traverston

Ontario N0C 1H0

↑ 1. Head north on Traverston Rd toward Grey Rd 12

2.0 km

↱ 2. Turn right onto Grey Rd 12

2.0 km

↱ 3. Turn right onto Glenelg Rd 23/County Rd 23

2.0 km

↱ 4. Turn right onto Concession Rd 8

2.6 km

↱ 5. Turn right onto Traverston Rd
⚠ Parts of this road may be closed at certain times or
days

550 m

494551-494555 Traverston Rd
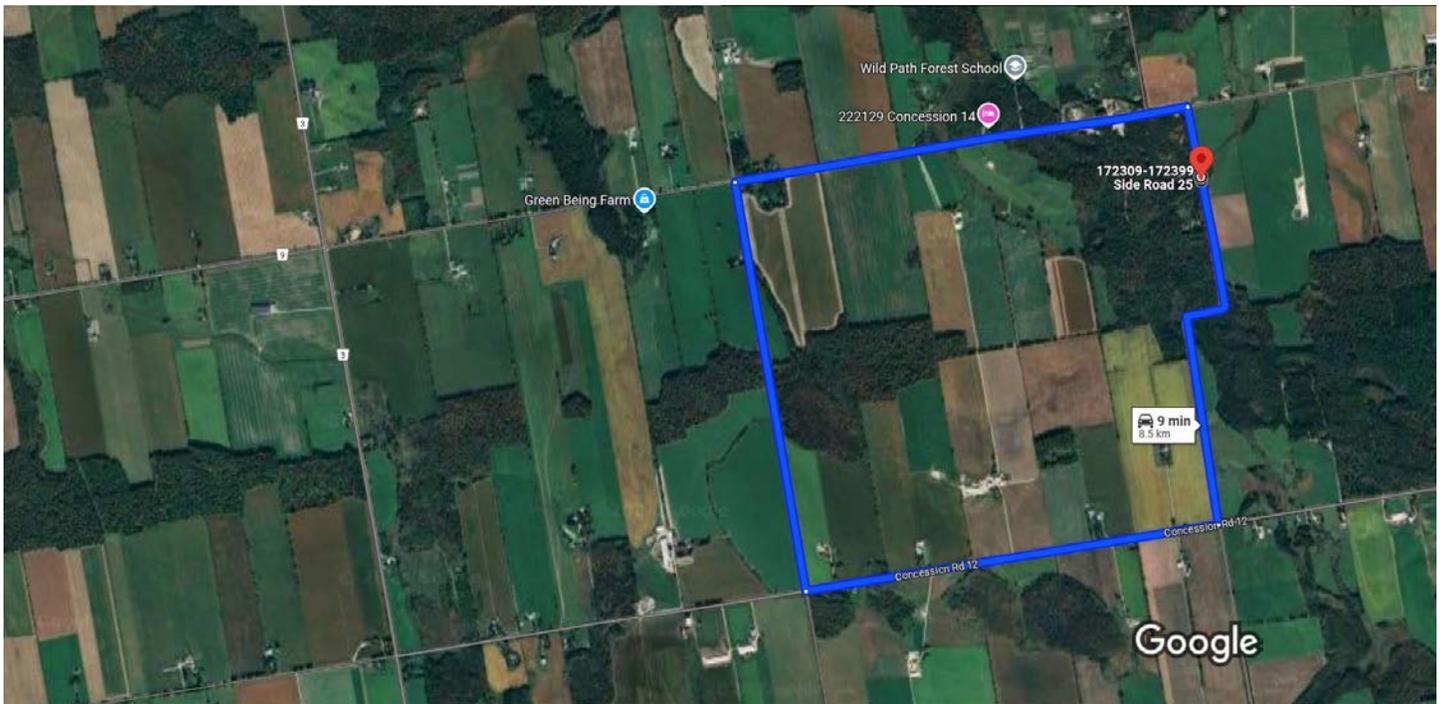
Markdale, ON N0C 1H0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

344250-344498 N Line

Priceville, ON N0C 1K0

↑   1.   Head west on N Line toward Glenelg Rd 23/County Rd 23

300 m

↱   2.   Turn right at the 1st cross street onto Glenelg Rd 23/County Rd 23

2.0 km

↱   3.   Turn right at the 1st cross street onto Concession Rd 4

2.1 km

↱   4.   Turn right onto Side Rd 40

2.1 km

↱   5.   Turn right onto N Line

1.7 km

344250-344498 N Line

Priceville, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

⚠️   Use caution−bicycling directions may not always
reflect real-world conditions

343250-343748 N Line
Priceville, ON N0C 1K0

↑   1.   Head west on N Line toward Concession 2

2.9 km

↱   2.   Turn right onto Concession 2

2.4 km

↱   3.   Turn right onto Concession Rd 4

5.7 km

↱   4.   Turn right onto Baptist Church Rd

2.0 km

↱   5.   Turn right onto N Line

2.9 km

343250-343748 N Line
Priceville, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

⚠ Use caution—bicycling directions may not always
reflect real-world conditions

343250-343748 N Line

Priceville, ON N0C 1K0

↑	1. Head east on N Line toward Camp Oliver Rd	
		750 m
→	2. Turn right onto Camp Oliver Rd	
		2.1 km
→	3. Turn right onto Grey County Rd 4	
		3.7 km
→	4. Turn right onto Concession 2	
		2.2 km
→	5. Turn right onto N Line	
		2.9 km

343250-343748 N Line

Priceville, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

341761 Concession Rd 2 NDR

Hanover, ON N4N 3B8

↑   1.   Head east on Concession Rd 2 NDR toward Allan Park Rd

                                                          700 m

↱   2.   Turn right at the 1st cross street onto Allan Park Rd

                                                          2.0 km

↱   3.   Turn right onto Grey County Rd 4

                                                          2.3 km

↻   4.   At the roundabout, take the 1st exit onto Grey Road 3/County Rd 3
         ⚠ Parts of this road may be closed at certain times or days

                                                          2.8 km

↱   5.   Turn right onto Concession Rd 2 NDR

                                                          1.3 km

Concession Rd 2 NDR
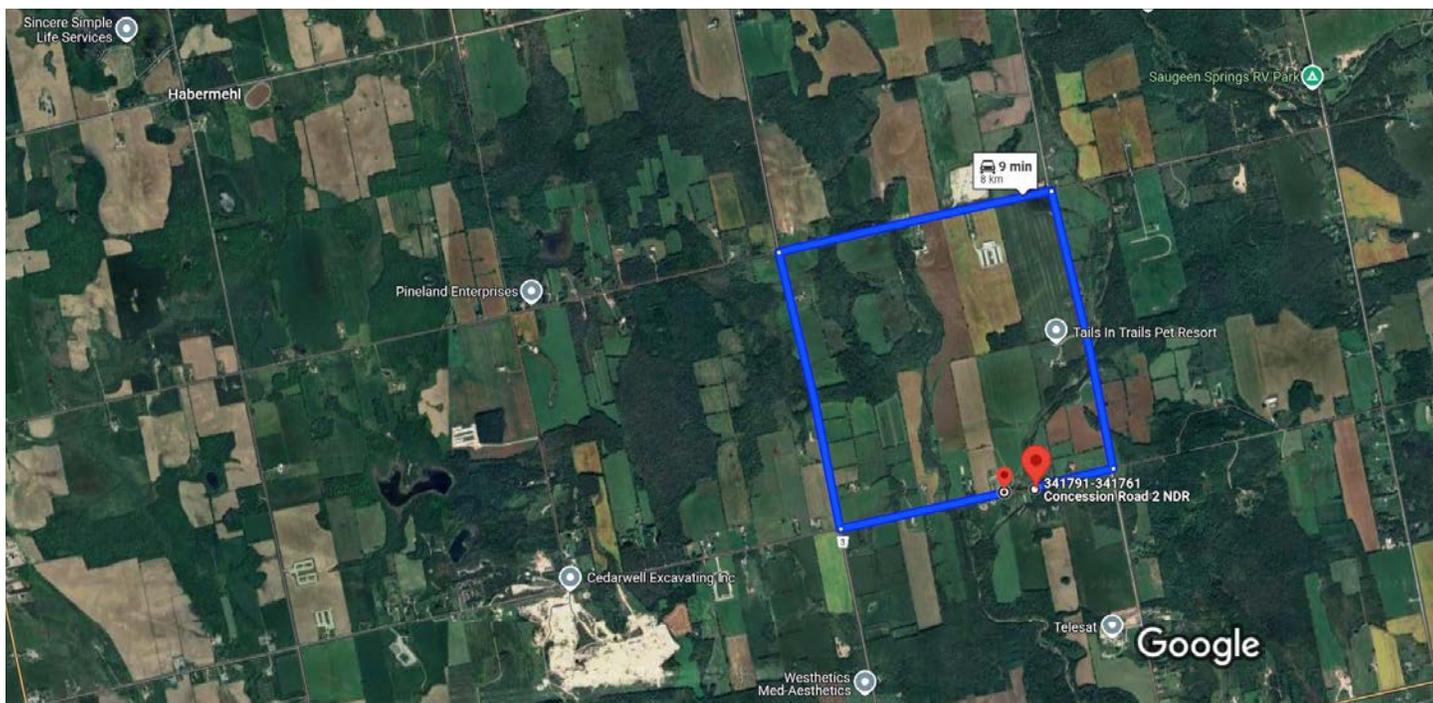
Hanover, ON N4N 3B8

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

341791-341761 Concession Rd 2 NDR

Hanover, ON N4N 3B8

↑	1.	Head east on Concession Rd 2 NDR toward Allan Park Rd
		600 m
↰	2.	Turn left at the 1st cross street onto Allan Park Rd
		2.1 km
↰	3.	Turn left onto Concession 4 Ndr/Concession Rd 4
		2.0 km
↰	4.	Turn left onto Grey Road 3/County Rd 3
		2.1 km
↰	5.	Turn left onto Concession Rd 2 NDR ⓘ Destination will be on the left
		1.2 km

Concession Rd 2 NDR
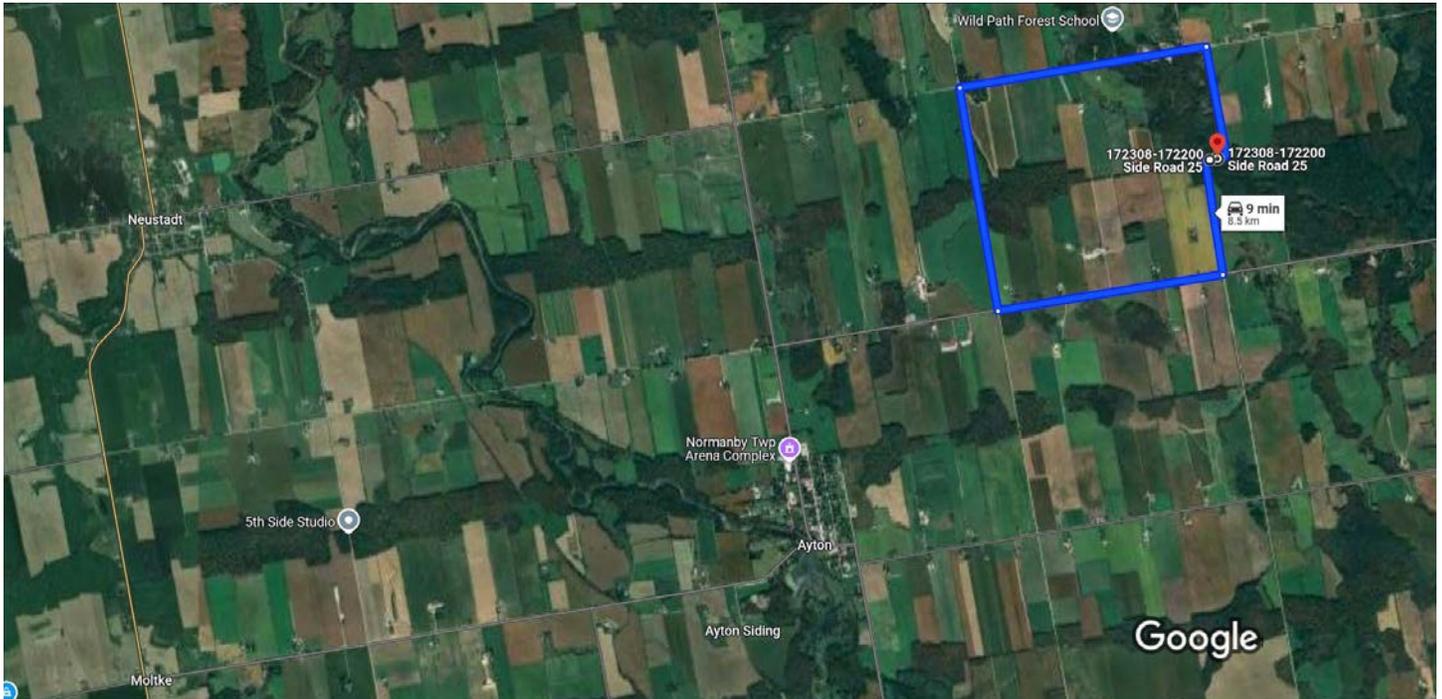
Hanover, ON N4N 3B8

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

172308-172200 Side Rd 25

West Grey, ON N0G 2M0

↑   1. Head west on Side Rd 25 toward Concession Rd
         12

---   1.1 km

↱   2. Turn right at the 1st cross street onto Concession
         Rd 12

---   2.0 km

↱   3. Turn right onto Side Rd 20

---   2.0 km

↱   4. Turn right onto Concession Rd 14

---   2.2 km

↱   5. Turn right onto Side Rd 25

---   1.1 km

172308-172200 Side Rd 25
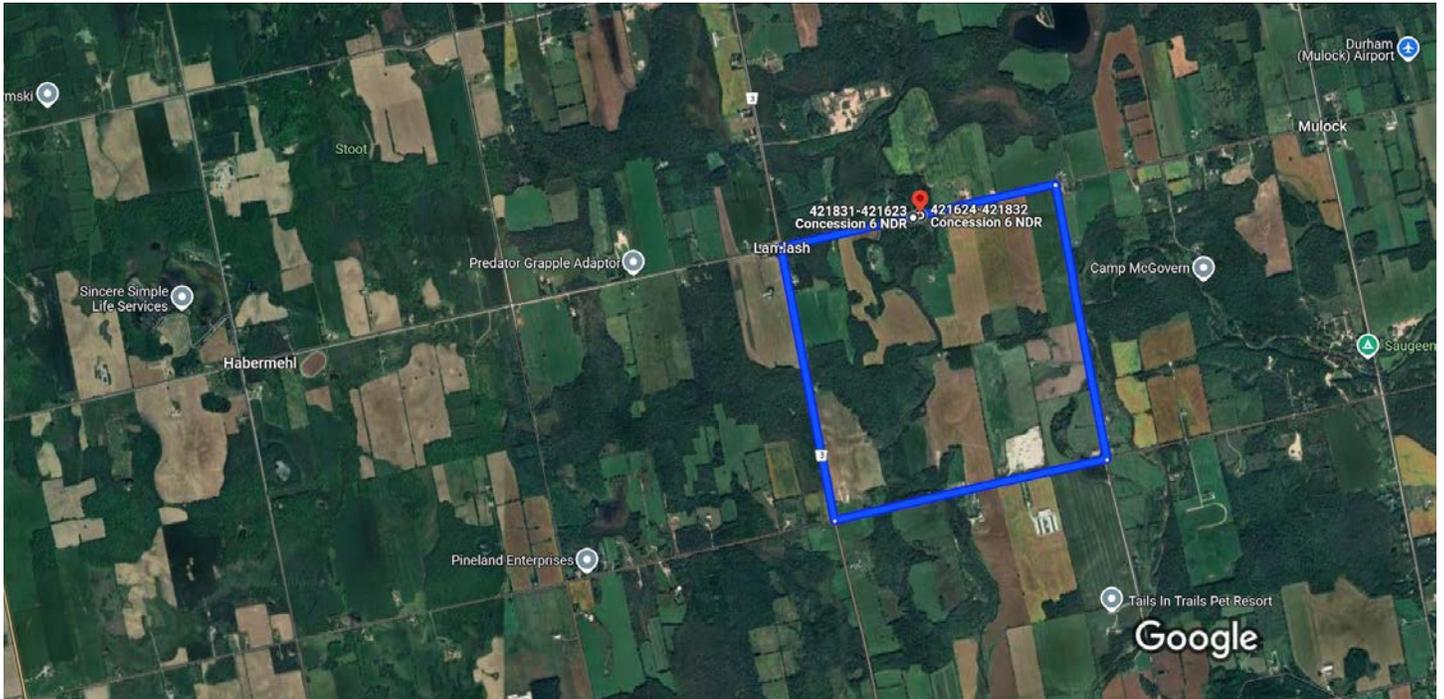
West Grey, ON N0G 2M0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

421831-421623 Concession 6 NDR

West Grey, ON N0G 1S0

↑ 1. Head west on Concession 6 NDR/Concession Rd 6 toward Grey Road 3/County Rd 3

————————————————————————— 1.0 km

↰ 2. Turn left at the 1st cross street onto Grey Road 3/ County Rd 3

————————————————————————— 2.0 km

↰ 3. Turn left onto Concession 4 Ndr/Concession Rd 4

————————————————————————— 2.0 km

↰ 4. Turn left onto Allan Park Rd

————————————————————————— 2.0 km

↰ 5. Turn left onto Concession 6 NDR/Concession Rd 6

————————————————————————— 1.0 km

421624-421832 Concession 6 NDR

West Grey, ON N0G 1S0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

⚠ Use caution−bicycling directions may not always reflect real-world conditions

343250-343748 N Line
Priceville, ON N0C 1K0

↑	1.	Head west on N Line toward Concession 2
		2.9 km
↱	2.	Turn right onto Concession 2
		2.4 km
↱	3.	Turn right onto Concession Rd 4
		5.7 km
↱	4.	Turn right onto Baptist Church Rd
		2.0 km
↱	5.	Turn right onto N Line
		2.9 km

343250-343748 N Line
Priceville, ON N0C 1K0

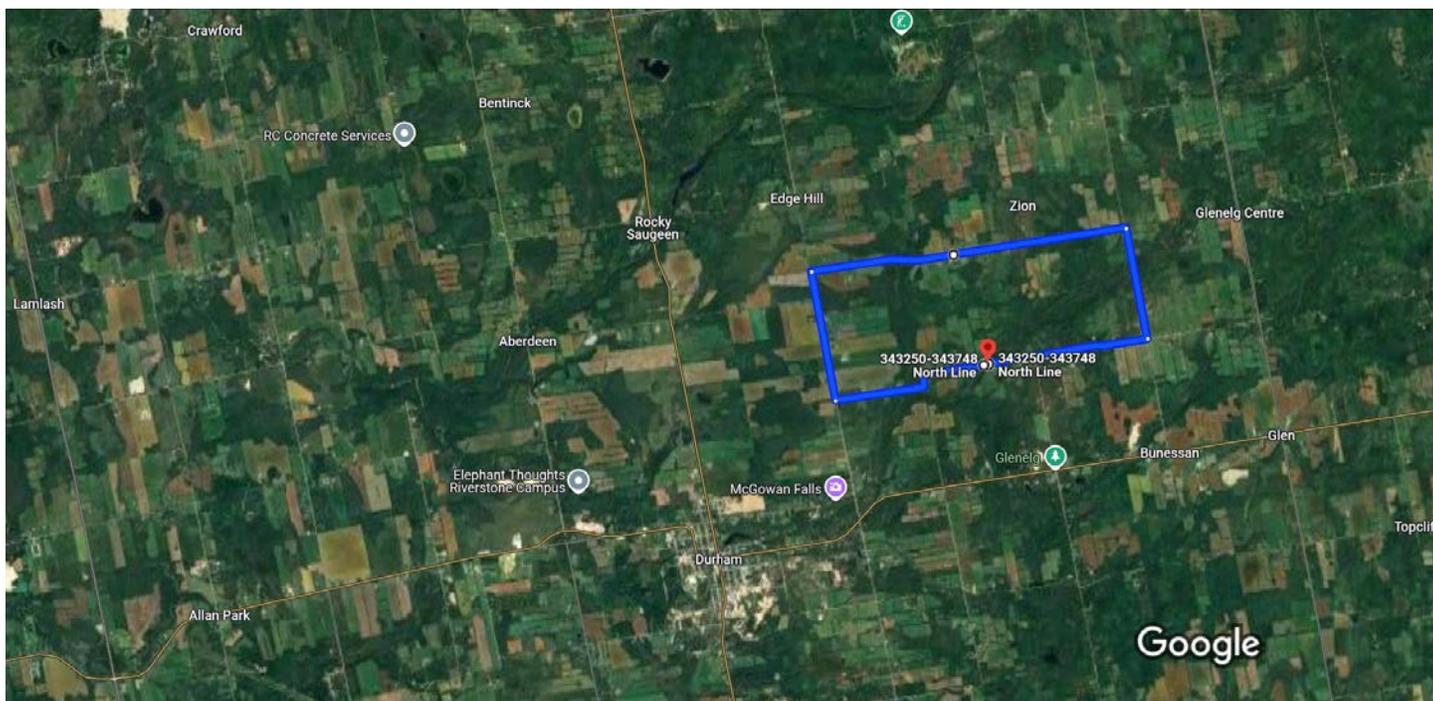Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

⚠ Use caution–bicycling directions may not always
reflect real-world conditions

343250-343748 N Line

Priceville, ON N0C 1K0

↑	1.	Head east on N Line toward Camp Oliver Rd
		750 m
→	2.	Turn right onto Camp Oliver Rd
		2.1 km
→	3.	Turn right onto Grey County Rd 4
		3.7 km
→	4.	Turn right onto Concession 2
		2.2 km
→	5.	Turn right onto N Line
		2.9 km

343250-343748 N Line

Priceville, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

⚠   Use caution—bicycling directions may not always
reflect real-world conditions

261596 Concession Rd 18

Neustadt, ON N0G 2M0

↑   1.   Head west on Concession Rd 18 toward Grey Rd
28/County Rd 28

————————————————————— 5.3 km

↰   2.   Turn left onto Grey Rd 10

————————————————————— 2.0 km

↰   3.   Turn left onto Concession Rd 16

————————————————————— 5.3 km

↰   4.   Turn left onto Grey Road 3/County Rd 3

————————————————————— 2.0 km

↰   5.   Turn left onto Concession Rd 18

————————————————————— 88 m

261596 Concession Rd 18
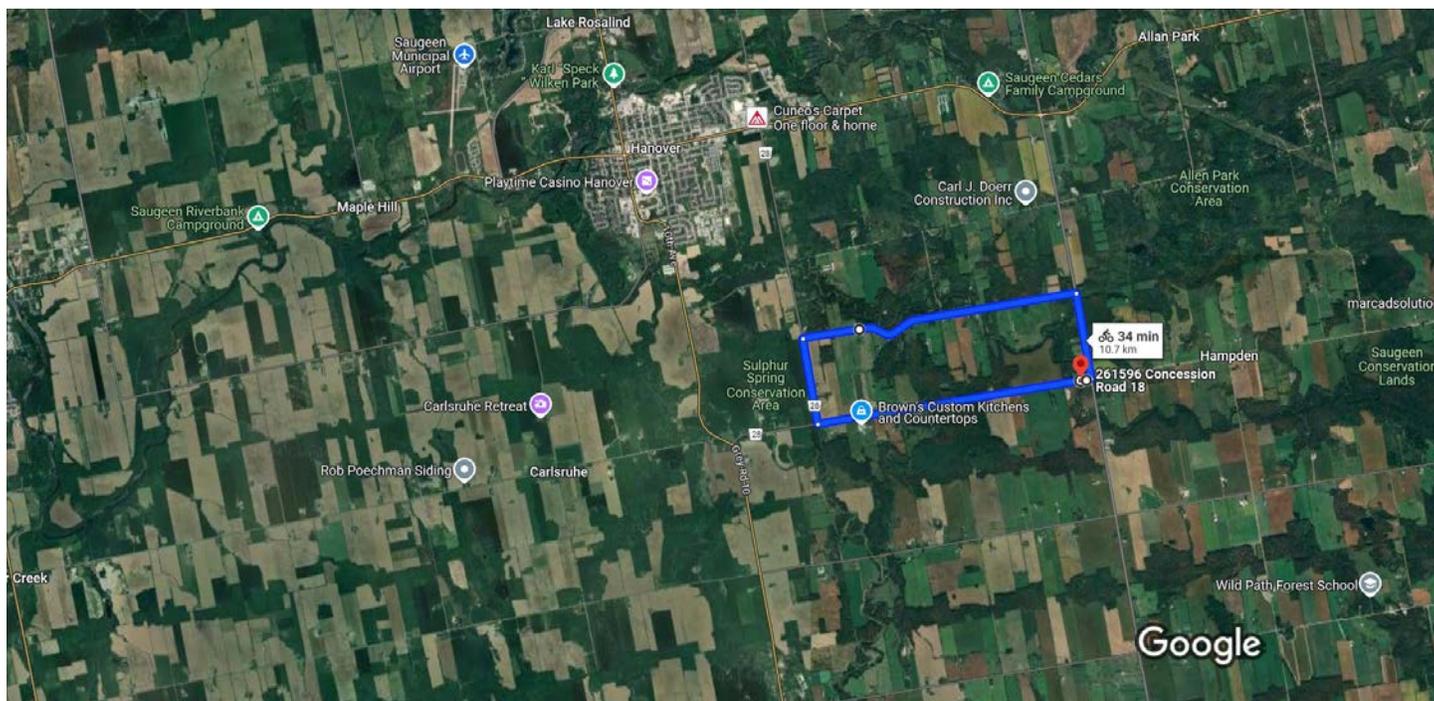
Neustadt, ON N0G 2M0

261596 Concession Rd 18, Neustadt, ON N0G   Bicycle 10.7 km, 34 min
2M0 to 261596 Concession Rd 18, Neustadt, ON N0G 2M0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

⚠️ Use caution−bicycling directions may not always reflect real-world conditions
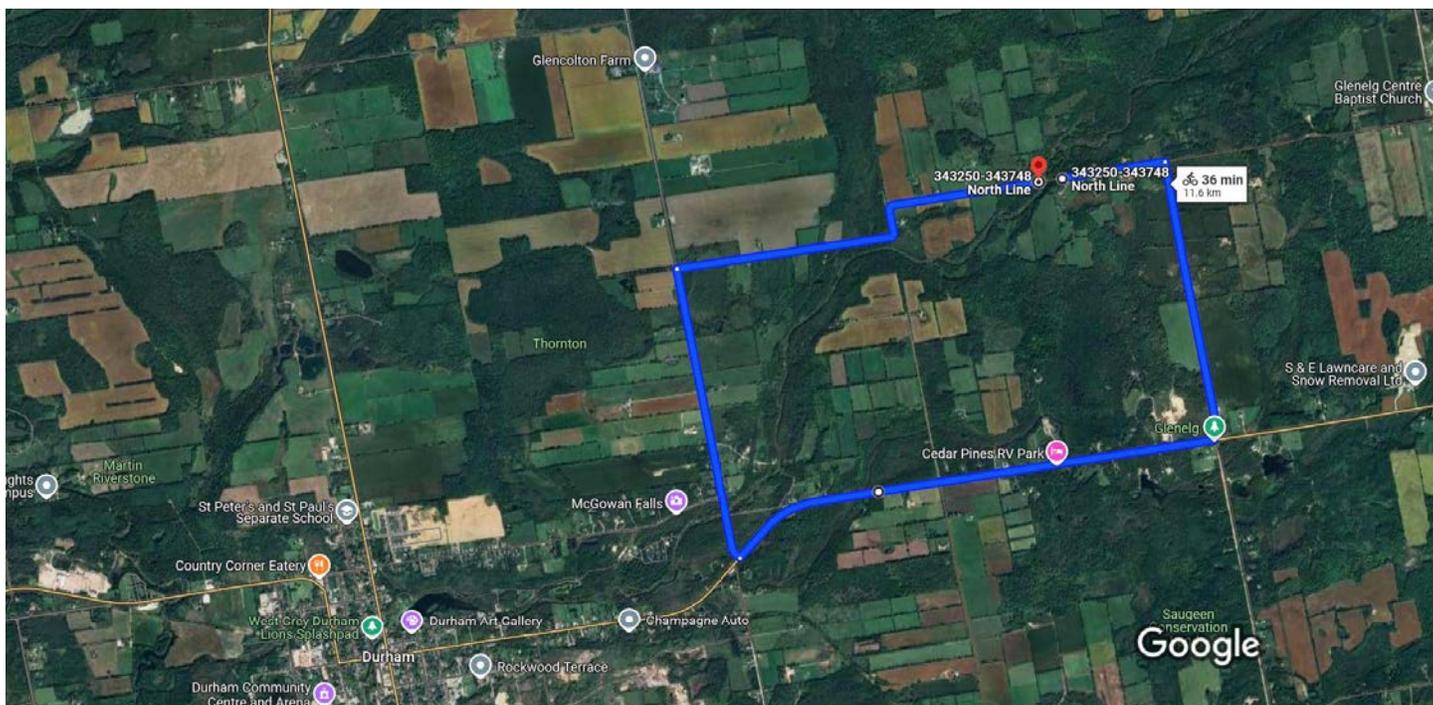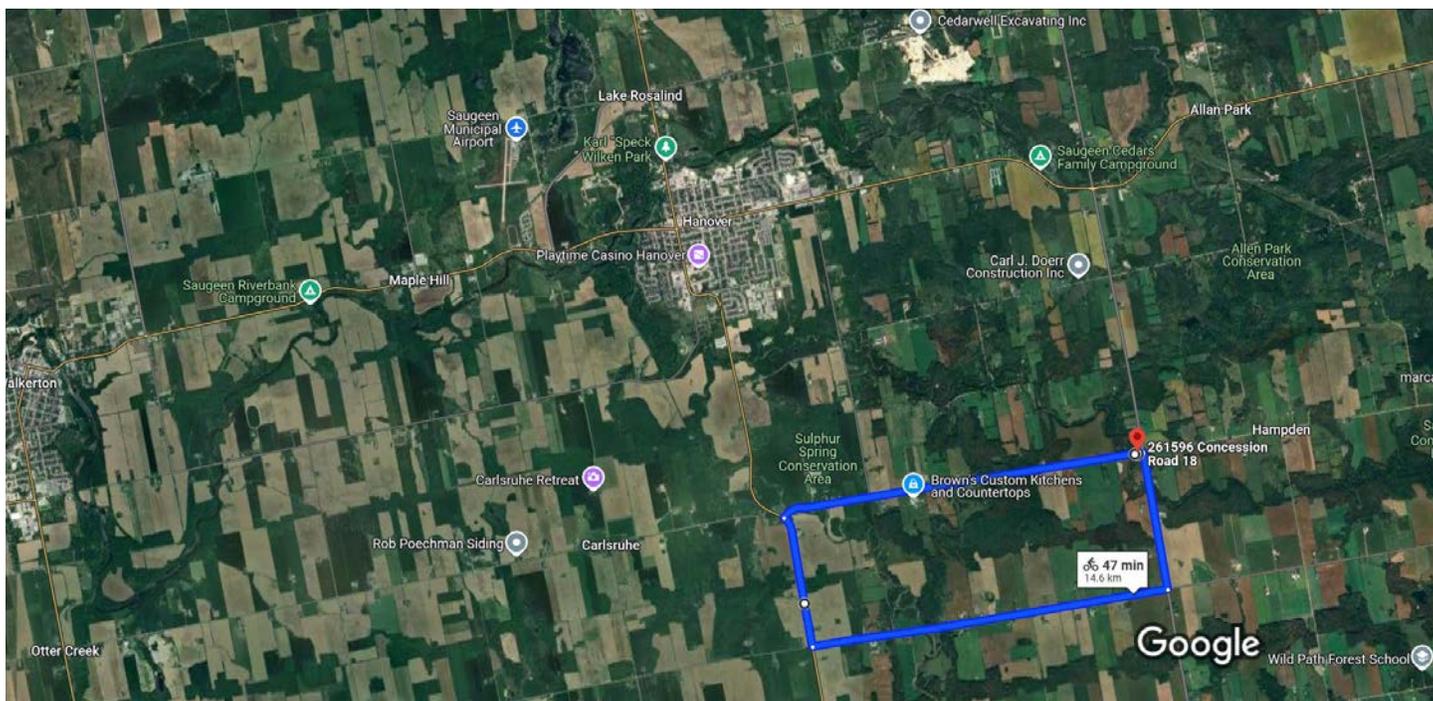
261596 Concession Rd 18
Neustadt, ON N0G 2M0

↑ 1. Head east on Concession Rd 18 toward Grey Road 3/County Rd 3

—————————————————————————— 76 m

↰ 2. Turn left onto Grey Road 3/County Rd 3

—————————————————————————— 1.3 km

↰ 3. Turn left onto Normanby Bentinck Townline

—————————————————————————— 4.1 km

↰ 4. Turn left onto Grey Rd 28/County Rd 28

—————————————————————————— 1.3 km

↰ 5. Turn left onto Concession Rd 18

—————————————————————————— 3.9 km

261596 Concession Rd 18
Neustadt, ON N0G 2M0
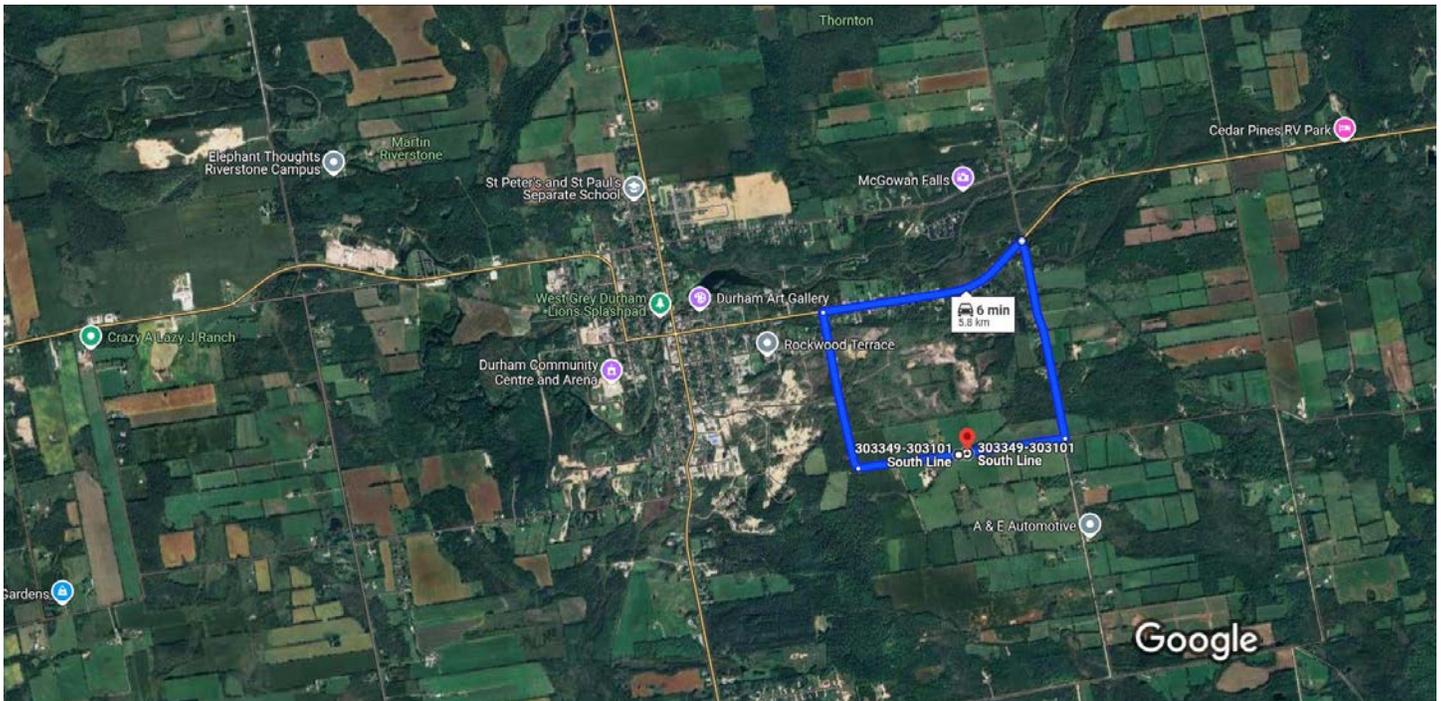
Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

303349-303101 S Line

West Grey, ON N0G 1R0

↑	1.	Head west on S Line toward Concession Rd 1	
			750 m
↗	2.	S Line turns slightly right and becomes Concession Rd 1	
			1.2 km
→	3.	Turn right onto Grey County Rd 4	
			1.6 km
→	4.	Turn right onto Concession Rd 2	
			1.5 km
→	5.	Turn right onto S Line	
			750 m

303349-303101 S Line

West Grey, ON N0G 1R0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

73001-73199 Side Rd 10

Neustadt, ON N0G 2M0

↑ 1. Head north on 10th Sideroad Sdr/Side Rd 10
       toward Concession Rd 2 SDR/Concession Rd 2

                                                          1.1 km

↰ 2. Turn left onto Concession Rd 2 SDR/Concession
       Rd 2

                                                          2.0 km

↰ 3. Turn left onto Grey Rd 28/County Rd 28

                                                          1.1 km

↰ 4. Turn left onto Normanby Bentinck Townline

                                                          2.2 km

↰ 5. Turn left onto 10th Sideroad Sdr/Side Rd 10

                                                          120 m

73198-73000 Side Rd 10

Neustadt, ON N0G 2M0

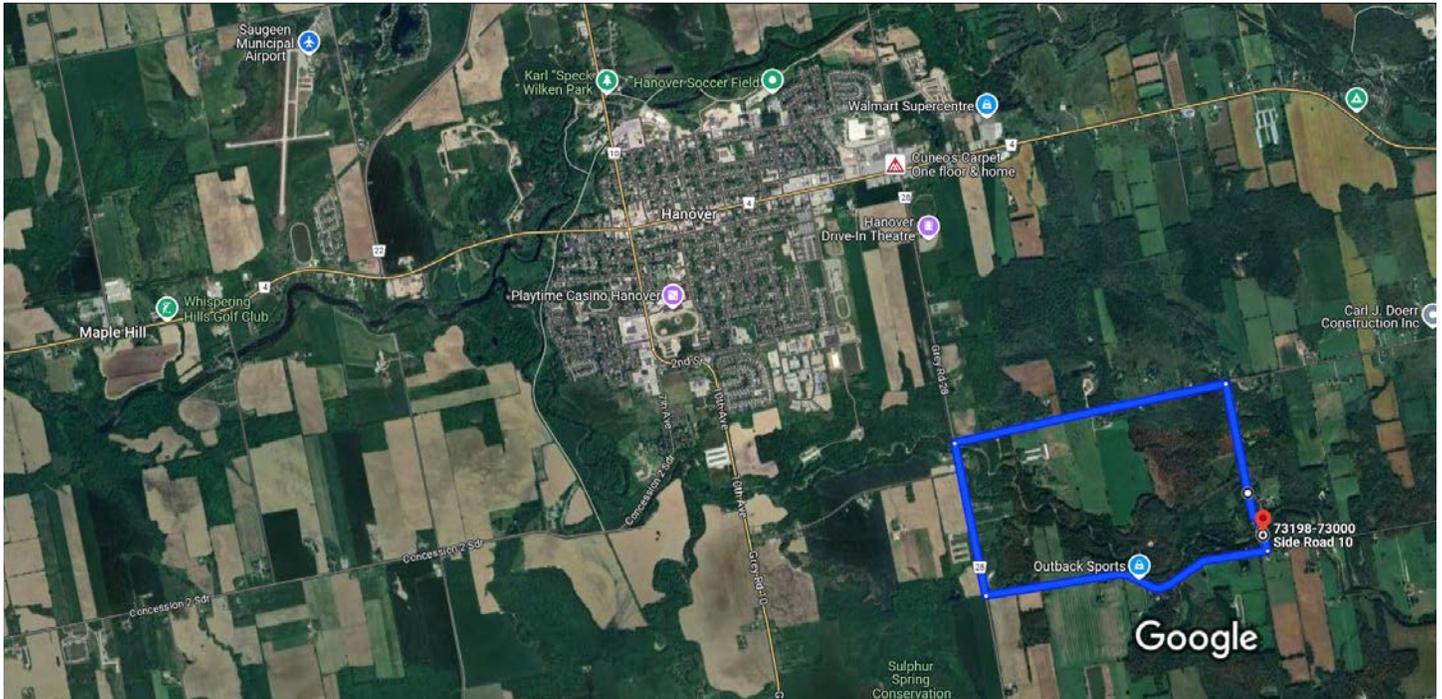Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

West Grey

Ontario

↑   1.   Head west on Welbeck Rd toward Baseline

                                                                    600 m

→   2.   Turn right onto Baseline

                                                                    1.8 km

→   3.   Turn right onto 3rd SIDEROAD WGR/Side Rd 3

                                                                    1.6 km

→   4.   Turn right at the 1st cross street onto Concession
         Rd 2 WGR

                                                                    1.6 km

→   5.   Turn right to stay on Concession Rd 2 WGR

                                                                    400 m

→   6.   Turn right onto Welbeck Rd

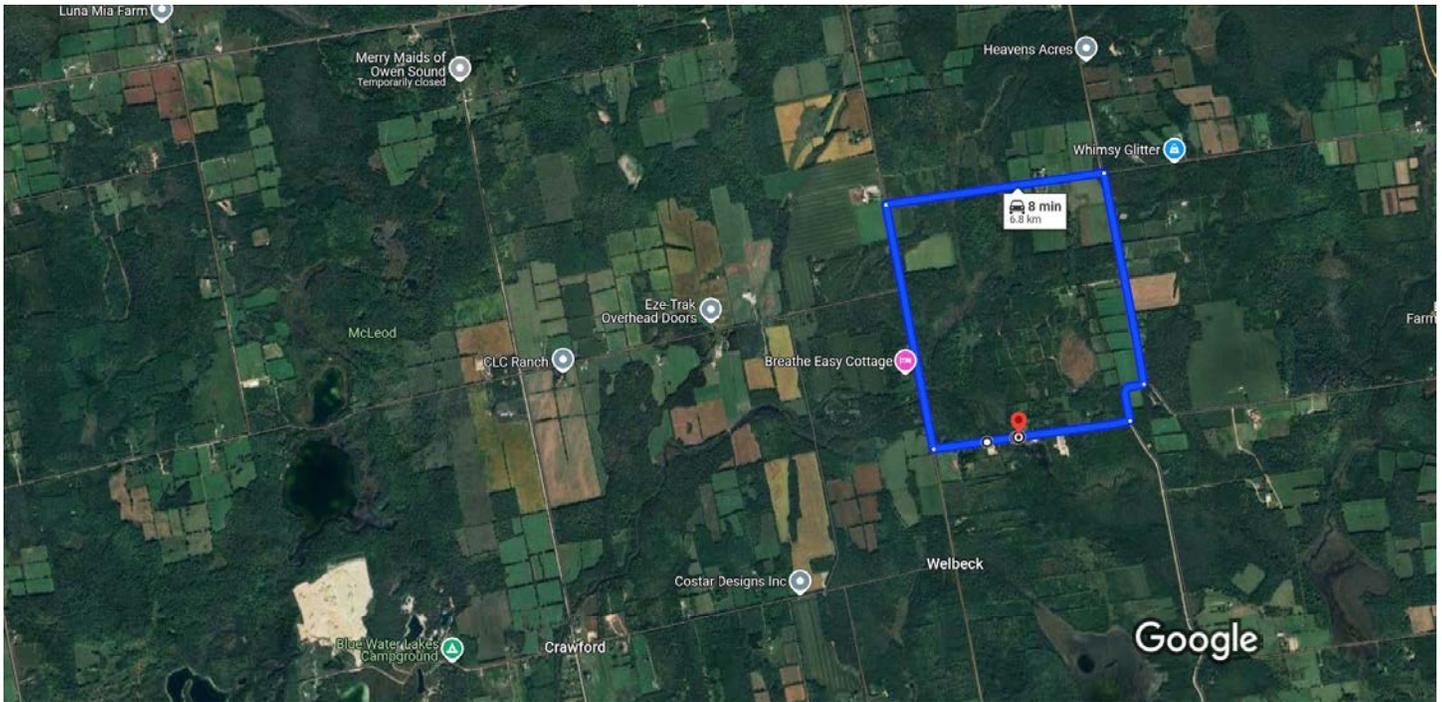   850 m

West Grey

Ontario

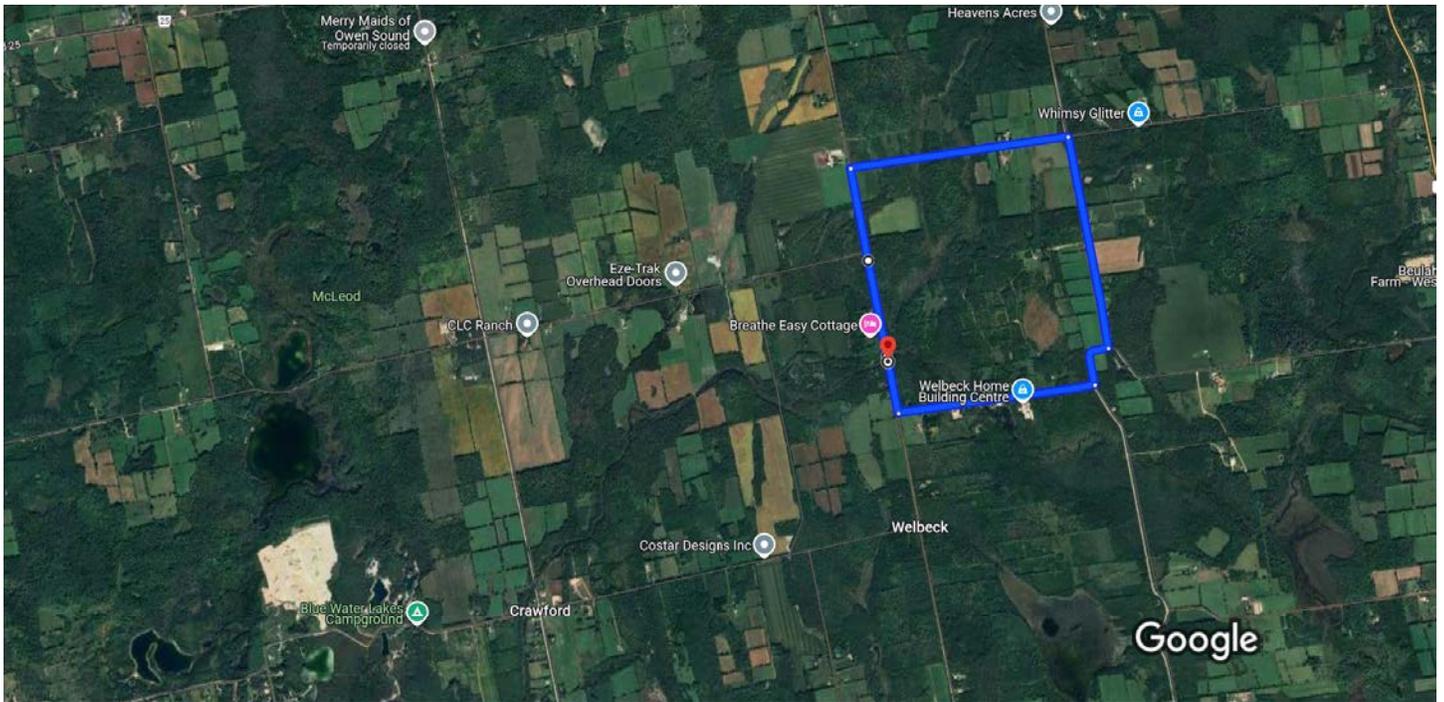Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

West Grey

Ontario

↑   1.   Head north on Baseline toward Concession Rd 12

    1.4 km

↱   2.   Turn right onto 3rd SIDEROAD WGR/Side Rd 3

    1.6 km

↱   3.   Turn right at the 1st cross street onto Concession Rd 2 WGR

    1.6 km

↱   4.   Turn right to stay on Concession Rd 2 WGR

    400 m

↱   5.   Turn right onto Welbeck Rd

    1.5 km

↱   6.   Turn right onto Baseline

    400 m

West Grey

Ontario

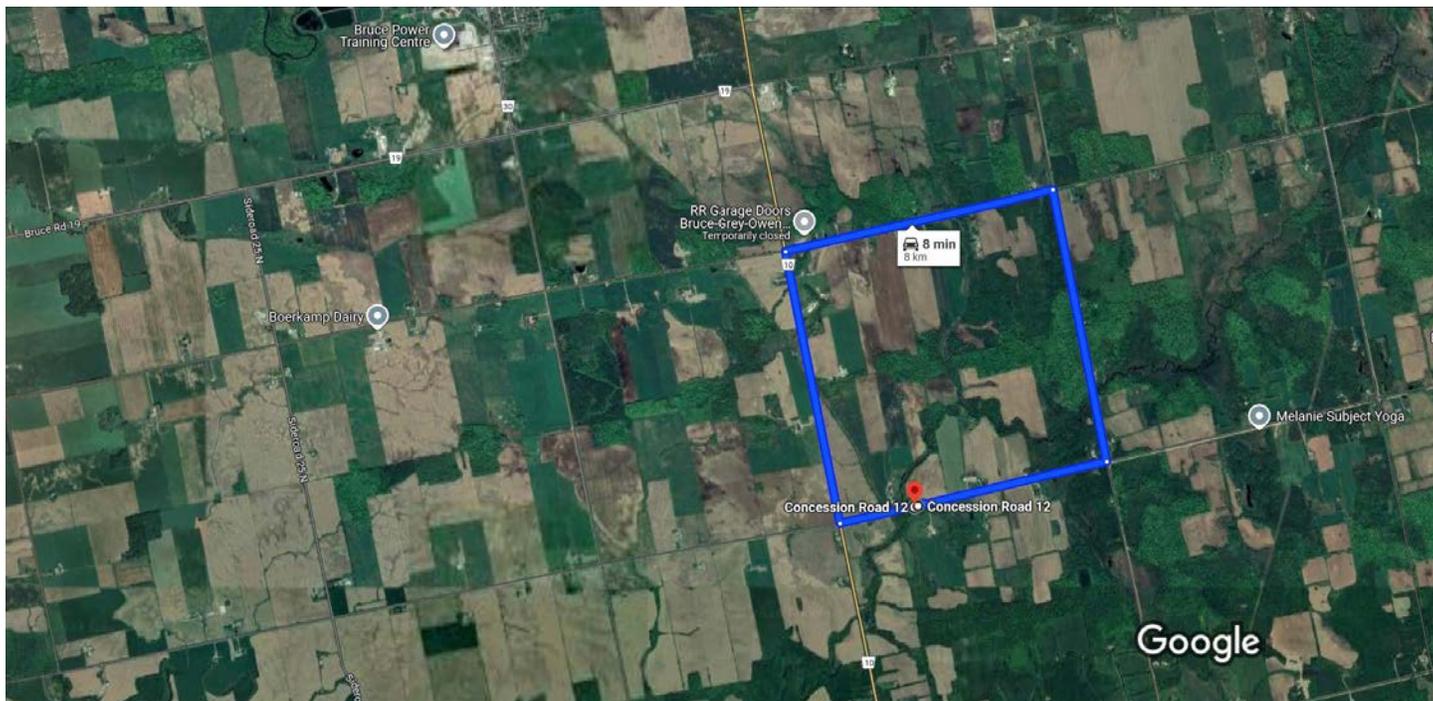Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

Concession Rd 12

Elmwood, ON N0G 1S0

↑   1.   Head east on Concession Rd 12 toward 5th
Sideroad Ndr/Side Rd 5

                                           1.4 km

↰   2.   Turn left at the 1st cross street onto 5th Sideroad
Ndr/Side Rd 5

                                           2.0 km

↰   3.   Turn left onto Concession 14 Ndr/Concession Rd
14

                                           2.0 km

↰   4.   Turn left onto Bruce Rd 10

                                           2.0 km

↰   5.   Turn left onto Concession Rd 12

                                           550 m

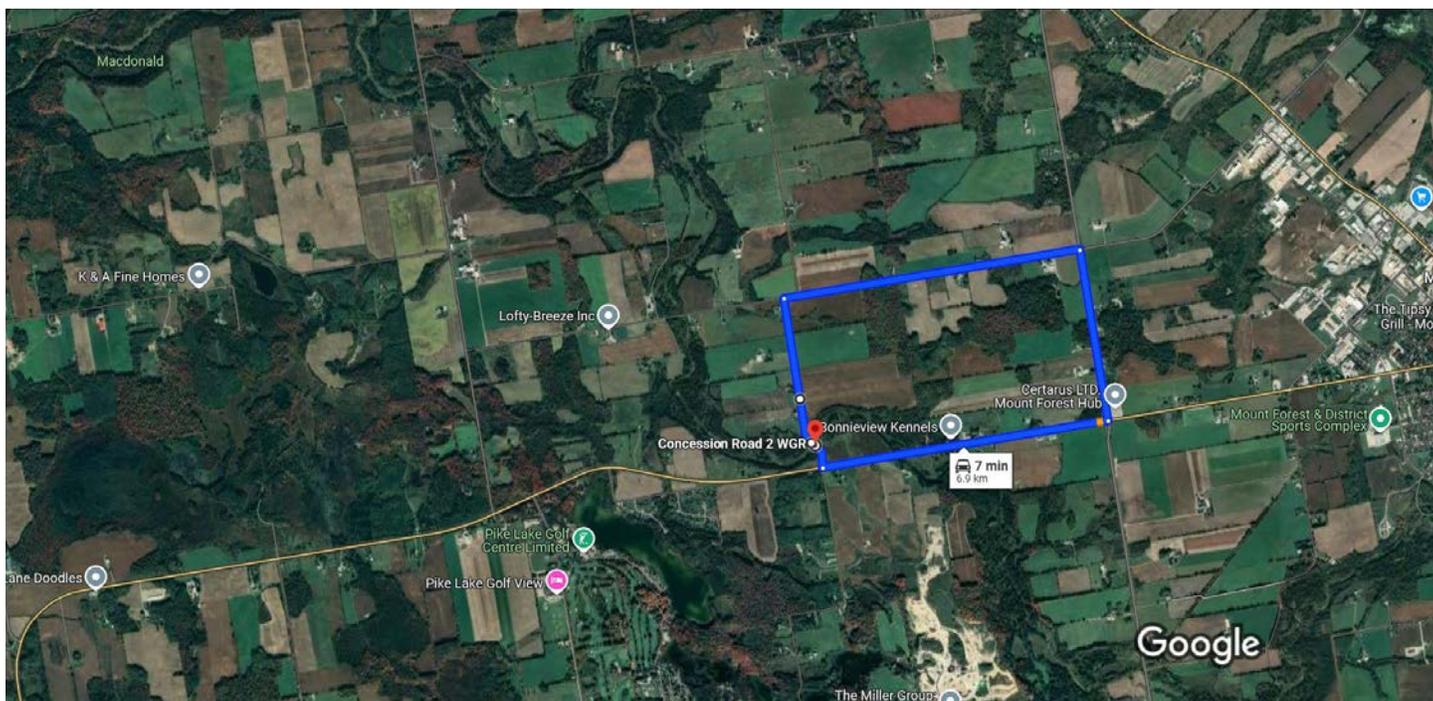**Concession Rd 12**

Elmwood, ON N0G 1S0

Imagery ©2024 CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

Concession Rd 2 WGR

Mount Forest, ON N0G 2L0

↑   1.   Head northwest on Concession Rd 2 WGR toward Rd 71
⚠ Parts of this road may be closed at certain times or days

1.1 km

↱   2.   Turn right onto Rd 71

2.2 km

↱   3.   Turn right onto Grey Rd 6/County Rd 6

1.3 km

↱   4.   Turn right at the 1st cross street onto ON-89 W

2.1 km

↱   5.   Turn right onto Concession Rd 2 WGR
⚠ Parts of this road may be closed at certain times or days

180 m

Concession Rd 2 WGR
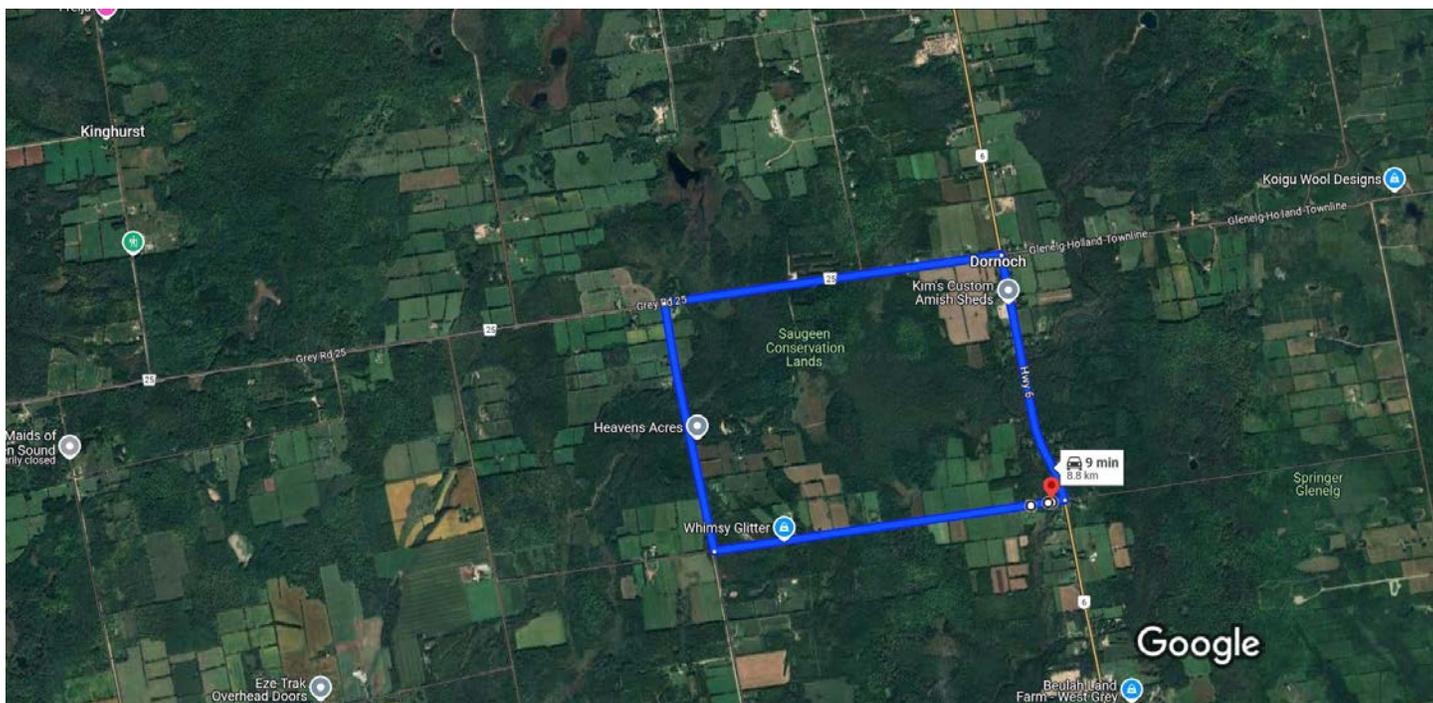
Mount Forest, ON N0G 2L0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

West Grey

Ontario N0G 1R0

↑ 1. Head west on 3rd SIDEROAD WGR/Side Rd 3 toward Concession Rd 2 WGR

_____ 2.5 km

→ 2. Turn right onto Concession Rd 2 WGR

_____ 1.9 km

→ 3. Turn right onto Grey Rd 25/County Rd 25

_____ 2.5 km

→ 4. Turn right onto Hwy 6 S/ON-6 S

_____ 1.9 km

→ 5. Turn right at the 1st cross street onto 3rd SIDEROAD WGR/Side Rd 3

_____ 97 m

West Grey

Ontario N0G 1R0
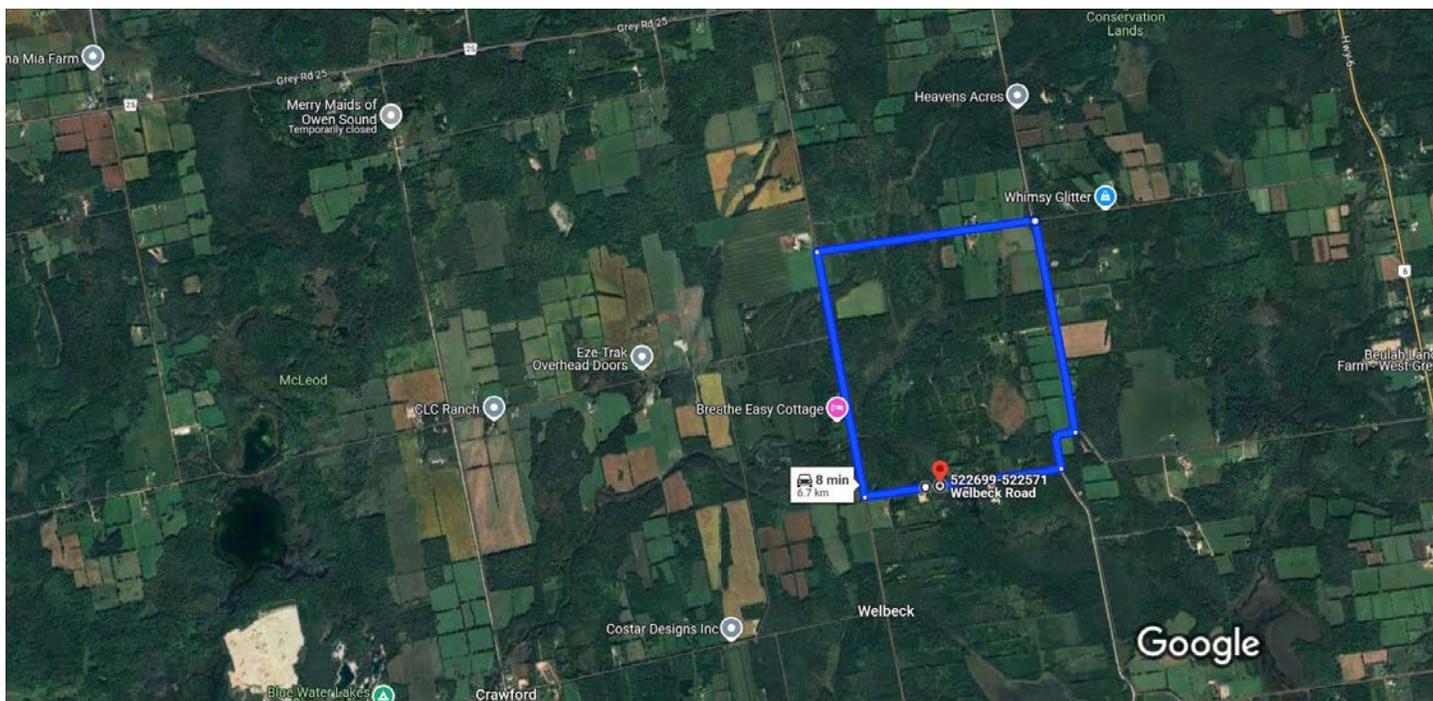
Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

522699-522571 Welbeck Rd

West Grey, ON N0G 1R0

	1.	Head west on Welbeck Rd toward Baseline	
			450 m
	2.	Turn right onto Baseline	
			1.8 km
	3.	Turn right onto 3rd SIDEROAD WGR/Side Rd 3	
			1.6 km
	4.	Turn right at the 1st cross street onto Concession Rd 2 WGR	
			1.6 km
	5.	Turn right to stay on Concession Rd 2 WGR	
			400 m
	6.	Turn right onto Welbeck Rd ⓘ Destination will be on the right	
			900 m

522699-522571 Welbeck Rd
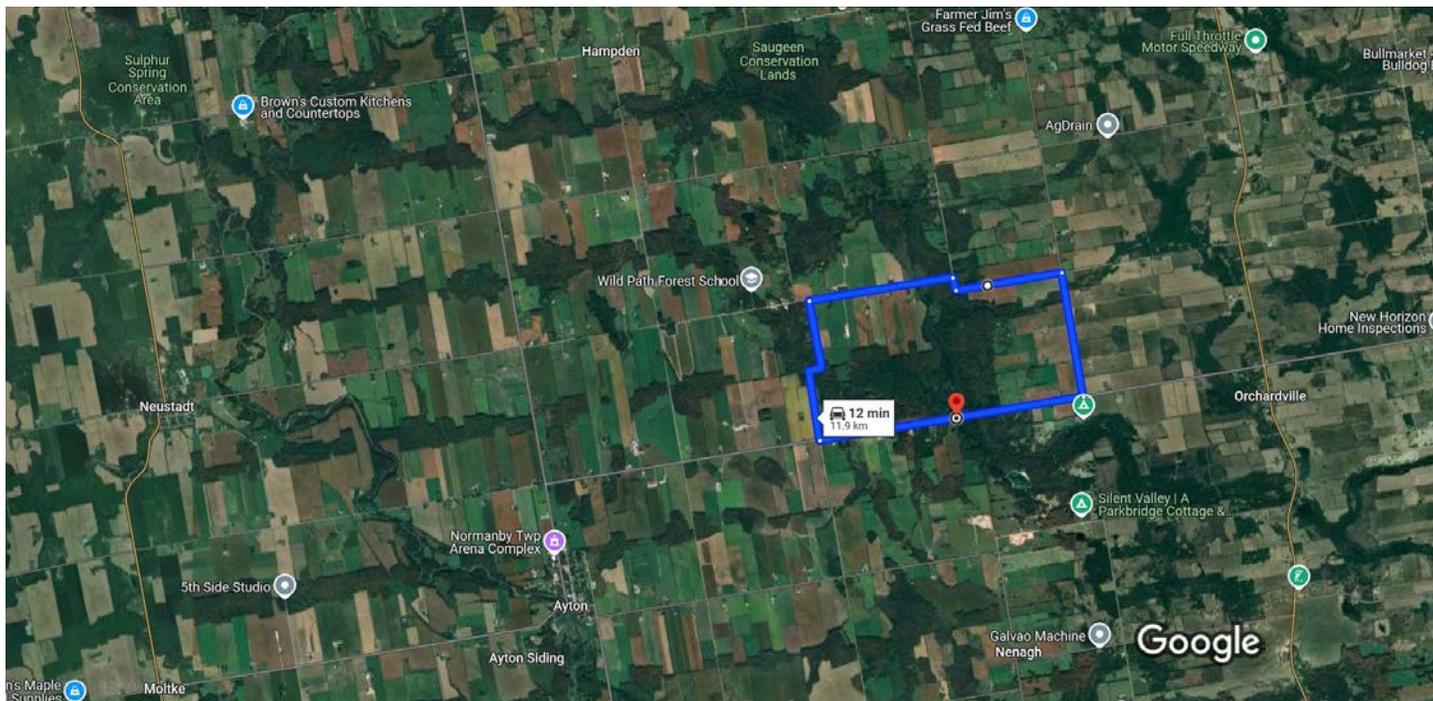
West Grey, ON N0G 1R0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

182401-182813 Concession Rd 12

West Grey, ON

↑   1.   Head east on Concession Rd 12 toward Concession Rd 2 WGR

<div align="right">1.9 km</div>

↰   2.   Turn left at the 1st cross street onto Concession Rd 2 WGR

<div align="right">1.9 km</div>

↰   3.   Turn left onto 21 Rd

<div align="right">1.6 km</div>

↗   4.   21 Rd turns slightly right and becomes Baseline Rd

<div align="right">190 m</div>

↰   5.   Turn left onto Concession Rd 14

<div align="right">2.1 km</div>

↰   6.   Turn left onto Side Rd 25

<div align="right">2.2 km</div>

↰   7.   Turn left onto Concession Rd 12

<div align="right">2.0 km</div>

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

171601-171899 Side Rd 25

Ayton, ON N0G 1C0

1. ↑ Head north on Side Rd 25 toward Grey County Rd 9

1.7 km

2. → Turn right at the 1st cross street onto Grey County Rd 9

3.7 km

3. → Turn right onto Baseline Rd

550 m

4. → Turn right onto Concession Rd 8

2.3 km

5. → Turn right onto Side Rd 25
   ⓘ Destination will be on the right

260 m

West Grey

Ontario

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

384092 Concession Rd 4
West Grey, ON N0C 1K0

↑ 1. Head west on Concession Rd 4 toward Baptist Church Rd

---
950 m

→ 2. Turn right at the 1st cross street onto Baptist Church Rd

---
2.0 km

→ 3. Turn right onto Concession Rd 6

2.0 km

→ 4. Turn right onto Glenelg Rd 23/County Rd 23

2.1 km

→ 5. Turn right onto Concession Rd 4

1.0 km

384092 Concession Rd 4
West Grey, ON N0C 1K0

West Grey
Ontario

📍⁺ Add stop   🔖 Save   ◎ Nearby   ↪ Send to phone

Quick facts

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m

384092 Concession Rd 4

West Grey, ON N0C 1K0

↑   1.   Head west on Concession Rd 4 toward Baptist Church Rd

—————————————————————————— 1.0 km

↰   2.   Turn left at the 1st cross street onto Baptist Church Rd

—————————————————————————— 2.0 km

↰   3.   Turn left onto N Line

—————————————————————————— 2.0 km

↰   4.   Turn left onto Glenelg Rd 23/County Rd 23

—————————————————————————— 2.0 km

↰   5.   Turn left at the 1st cross street onto Concession Rd 4

—————————————————————————— 1.1 km

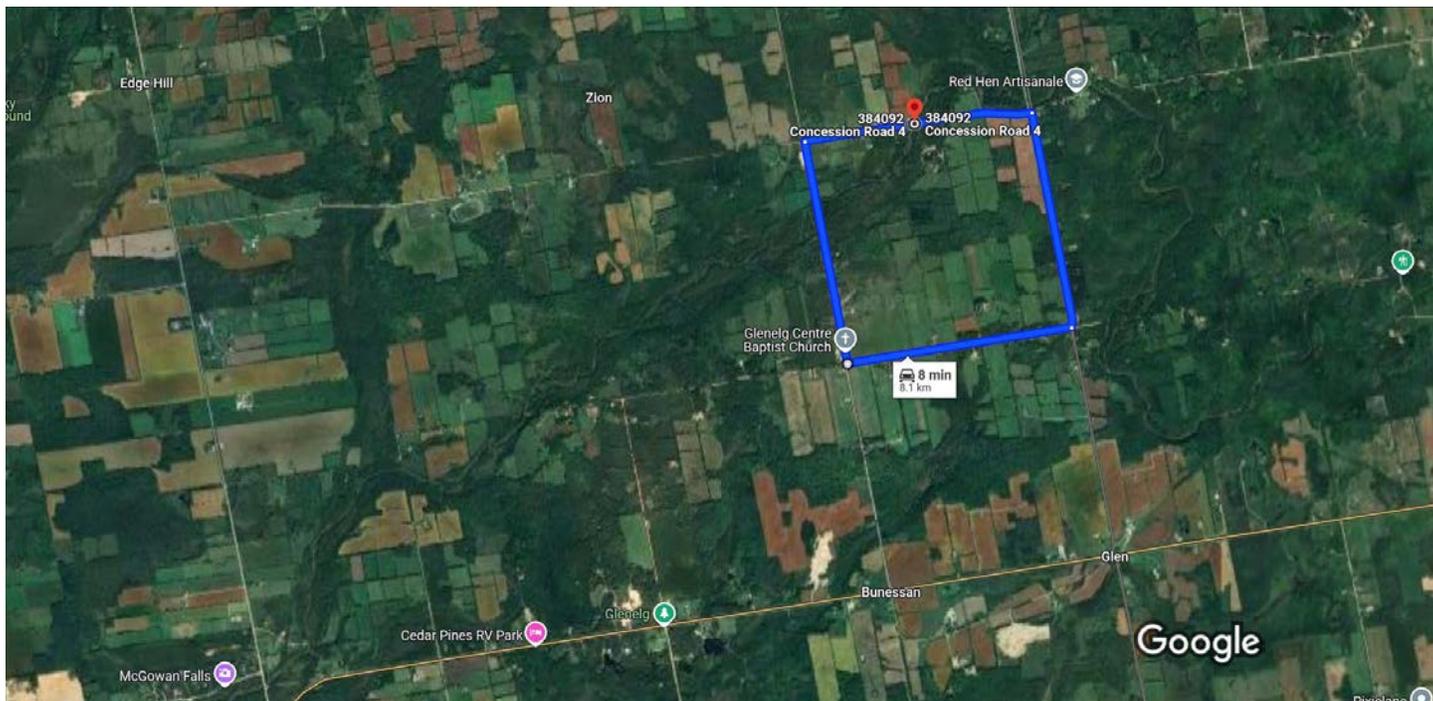**384092 Concession Rd 4**

West Grey, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

384092 Concession Rd 4
West Grey, ON N0C 1K0

↑ 1. Head west on Concession Rd 4 toward Baptist Church Rd

| | 950 m |

→ 2. Turn right at the 1st cross street onto Baptist Church Rd

| | 2.0 km |

→ 3. Turn right onto Concession Rd 6

| | 2.0 km |

→ 4. Turn right onto Glenelg Rd 23/County Rd 23

| | 2.1 km |

→ 5. Turn right onto Concession Rd 4

| | 1.0 km |

384092 Concession Rd 4
West Grey, ON N0C 1K0

West Grey
Ontario

| Add stop | Save | Nearby | Send to phone |

Quick facts

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   500 m
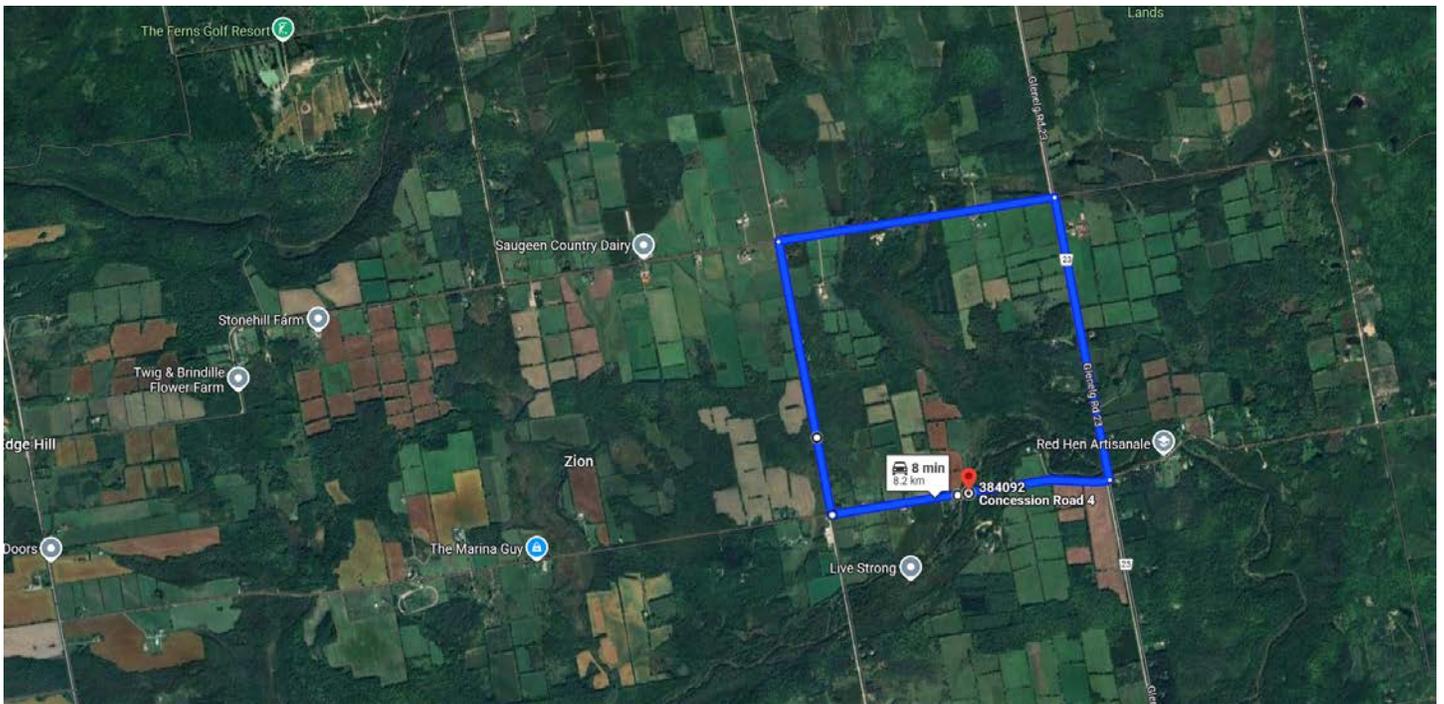
384092 Concession Rd 4

West Grey, ON N0C 1K0

↑   1.   Head west on Concession Rd 4 toward Baptist
         Church Rd

_____ 1.0 km

↰   2.   Turn left at the 1st cross street onto Baptist
         Church Rd

_____ 2.0 km

↰   3.   Turn left onto N Line

_____ 2.0 km

↰   4.   Turn left onto Glenelg Rd 23/County Rd 23

_____ 2.0 km

↰   5.   Turn left at the 1st cross street onto Concession
         Rd 4

_____ 1.1 km

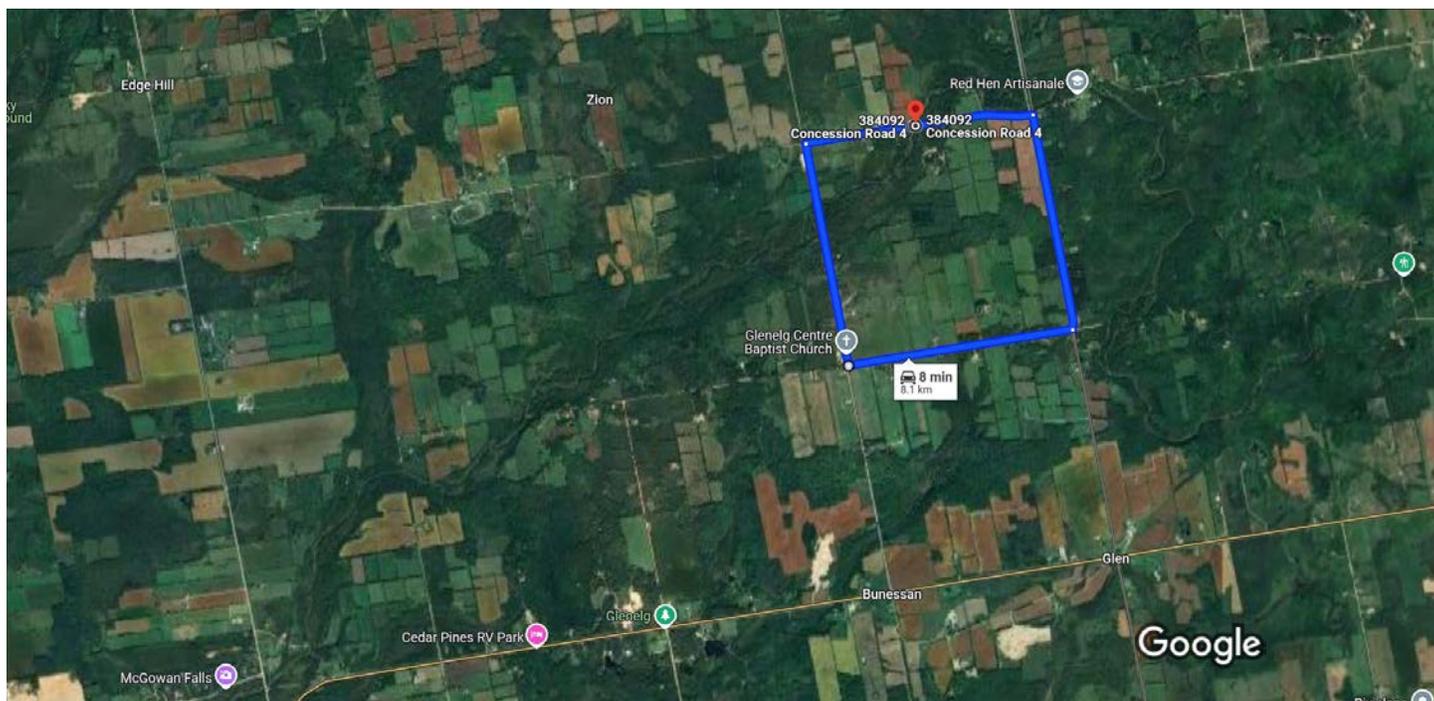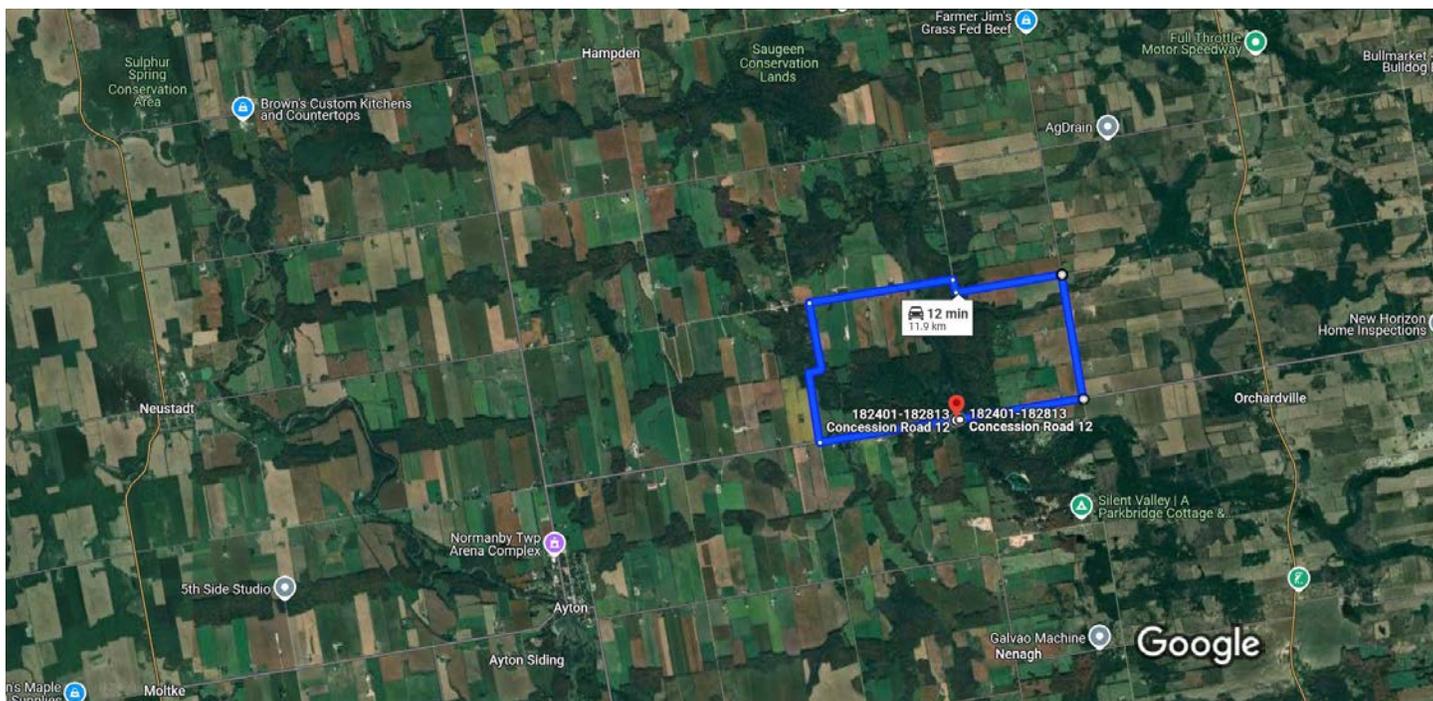**384092 Concession Rd 4**

West Grey, ON N0C 1K0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

182401-182813 Concession Rd 12

West Grey, ON

↑	1.	Head east on Concession Rd 12 toward Concession Rd 2 WGR
		1.8 km
↰	2.	Turn left at the 1st cross street onto Concession Rd 2 WGR
		1.9 km
↰	3.	Turn left onto 21 Rd
		1.6 km
↗	4.	21 Rd turns slightly right and becomes Baseline Rd
		190 m
↰	5.	Turn left onto Concession Rd 14
		2.1 km
↰	6.	Turn left onto Side Rd 25
		2.2 km
↰	7.	Turn left onto Concession Rd 12
		2.0 km

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   1 km

Concession Rd 14

West Grey, ON N0G 2M0

↑   1.   Head west on Concession Rd 14 toward Side Rd 25

                             1.6 km

↰   2.   Turn left onto Side Rd 25

                             2.2 km

↰   3.   Turn left onto Concession Rd 12

                             3.9 km

↰   4.   Turn left onto Concession Rd 2 WGR

                             1.9 km

↰   5.   Turn left onto 21 Rd

                             1.6 km

↗   6.   21 Rd turns slightly right and becomes Baseline Rd

                             190 m

↰   7.   Turn left onto Concession Rd 14

                             400 m

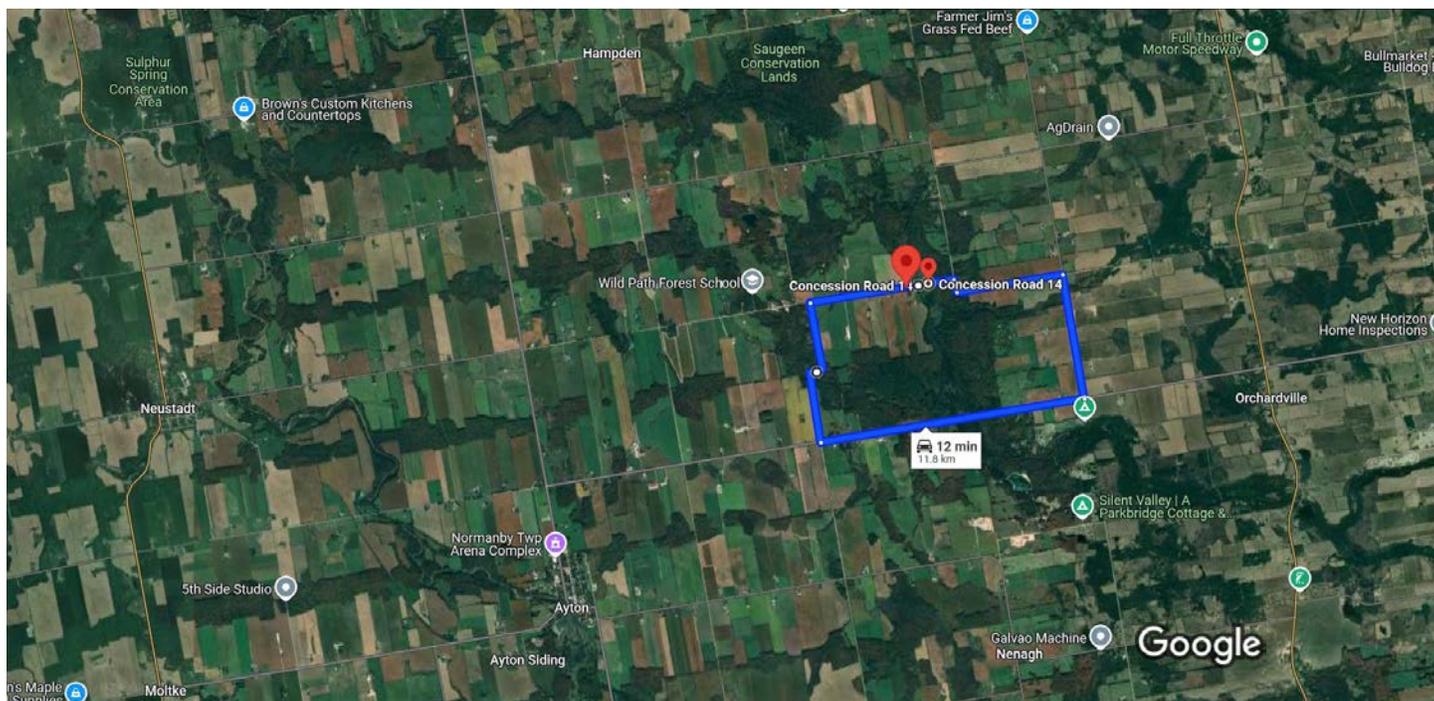**Concession Rd 14**

West Grey, ON N0G 2M0

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024   500 m

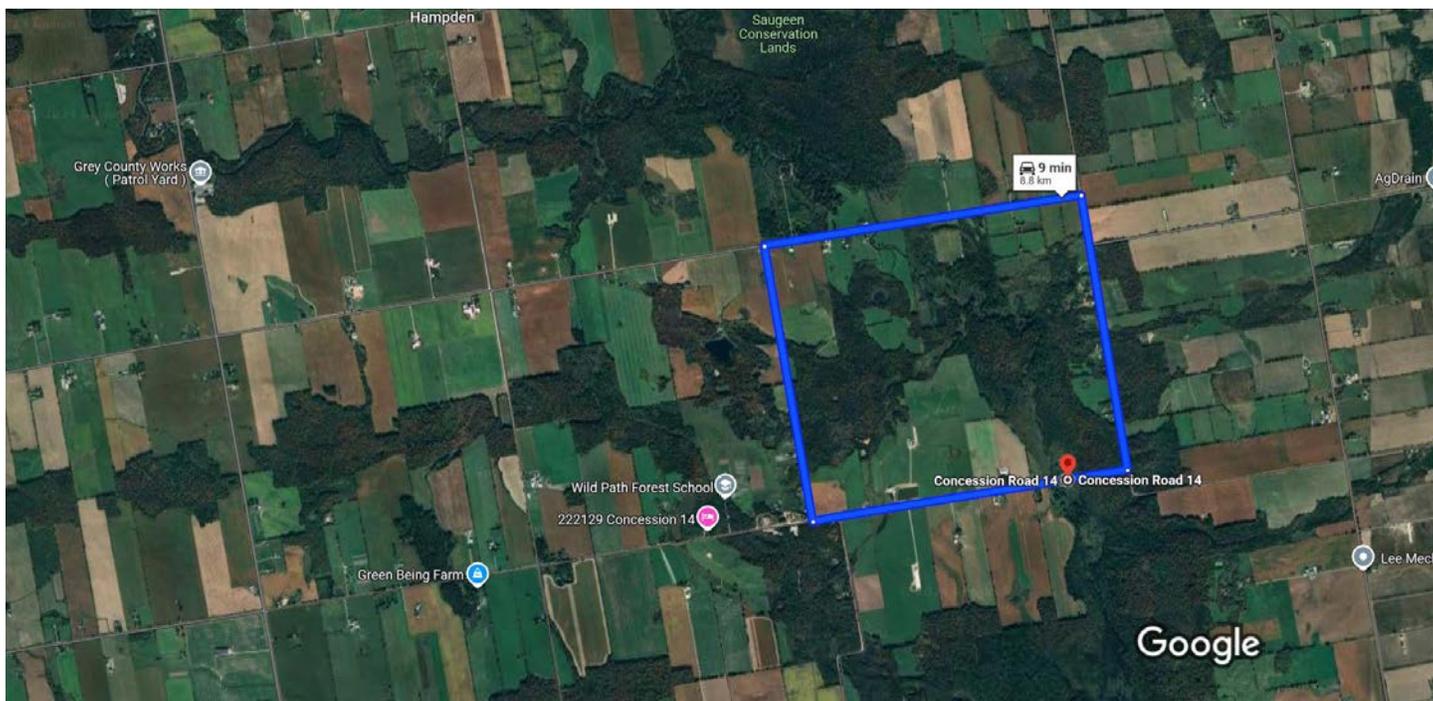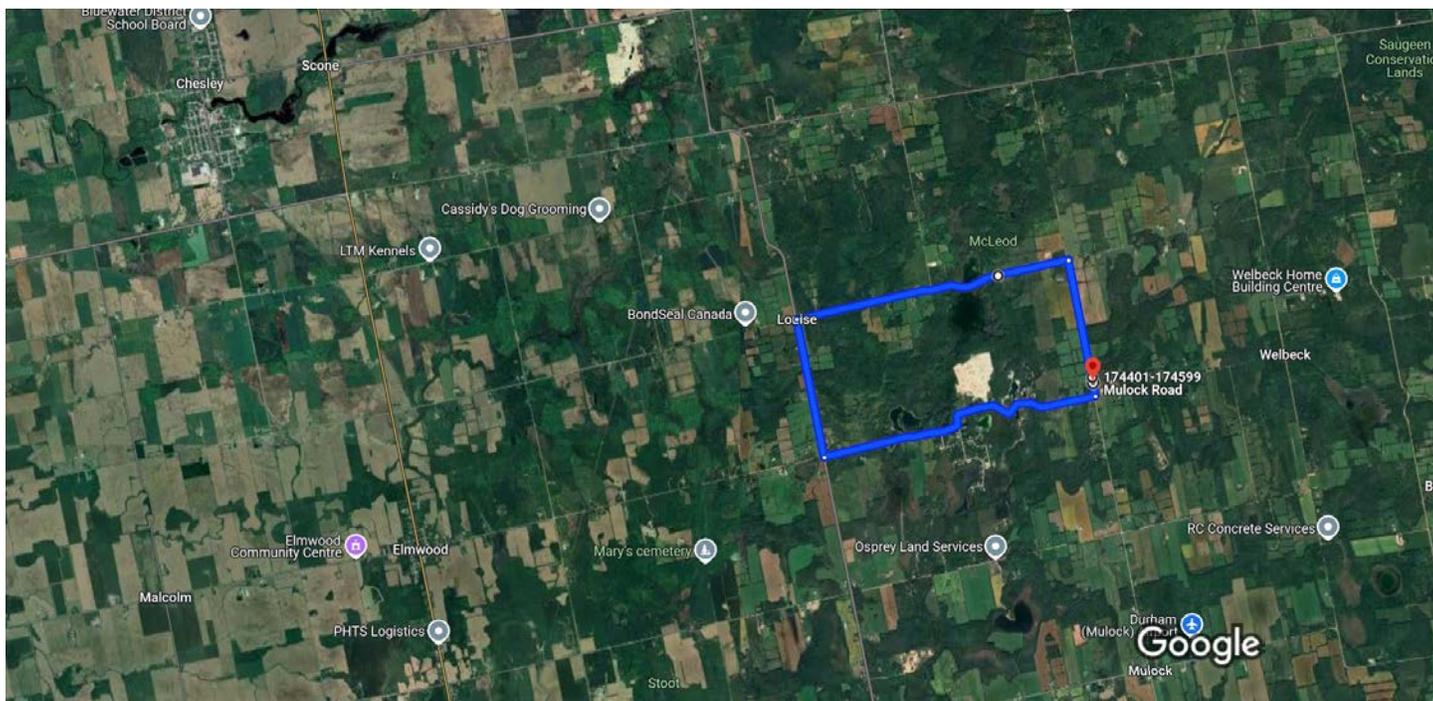**Concession Rd 14**

West Grey, ON N0G 2M0

↑   1.   Head west on Concession Rd 14 toward Side Rd
         25

                                                        1.9 km

→   2.   Turn right onto Side Rd 25

                                                        2.1 km

→   3.   Turn right onto Concession Rd 16

                                                        2.4 km

→   4.   Turn right onto Baseline Rd

                                                        2.0 km

→   5.   Turn right onto Concession Rd 14

                                                        450 m

Concession Rd 14

West Grey, ON N0G 2M0

174598-174400 Mulock Rd, Elmwood, ON N0G 1S0   Drive 12.5 km, 13 min
to 174401-174599 Mulock Rd, Elmwood, ON N0G 1S0

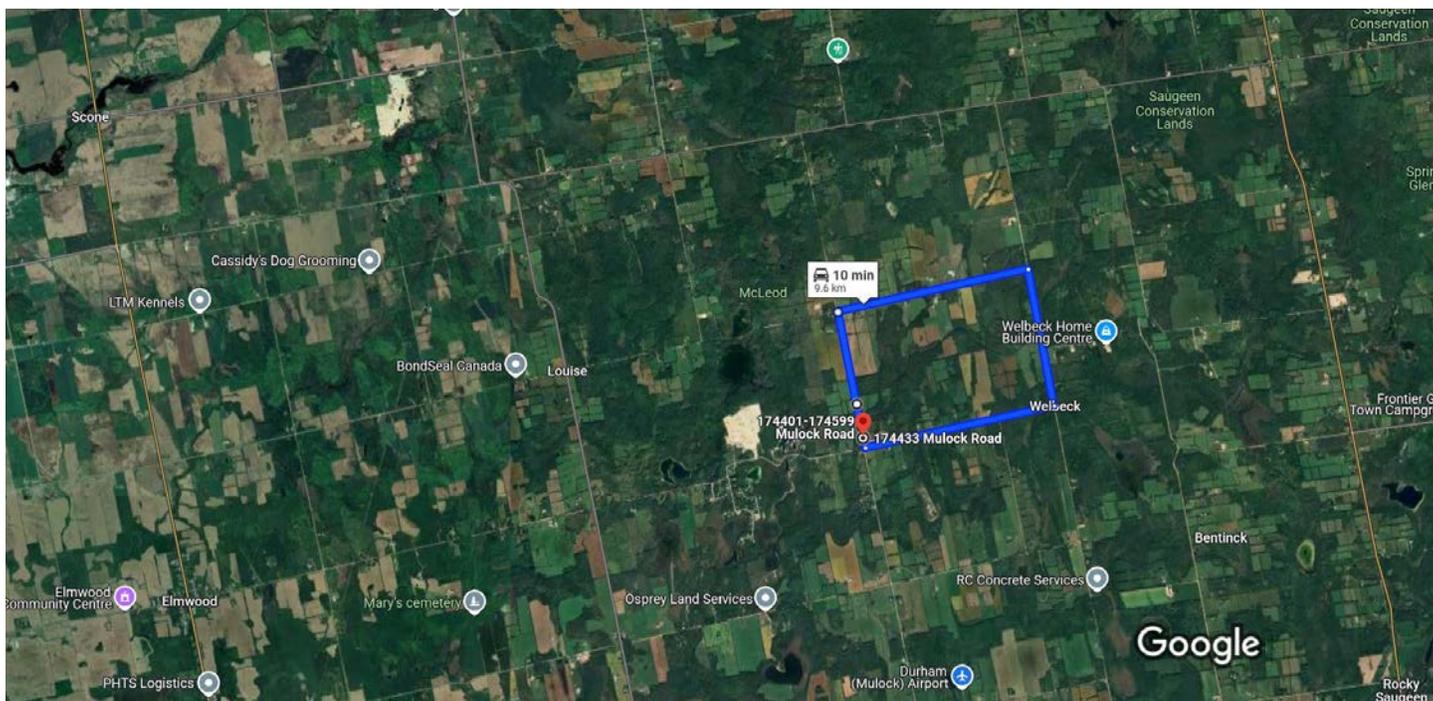Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   1 km

174598-174400 Mulock Rd

Elmwood, ON N0G 1S0

↑ 1. Head north on Mulock Rd toward Concession Rd 12

1.8 km

↰ 2. Turn left at the 1st cross street onto Concession Rd 12

4.1 km

↰ 3. Turn left onto Grey Road 3/County Rd 3

2.1 km

↰ 4. Turn left onto Concession 10 Ndr/Concession Rd 10

4.4 km

↰ 5. Turn left onto Mulock Rd

210 m

174401-174599 Mulock Rd

Elmwood, ON N0G 1S0

174401-174599 Mulock Rd, Elmwood, ON N0G 1S0
to 174433 Mulock Rd, Elmwood, ON N0G 1S0

Drive 9.6 km, 10 min

Imagery ©2024 Airbus, CNES / Airbus, Landsat / Copernicus, Maxar Technologies, Map data ©2024 Google   1 km

174401-174599 Mulock Rd

Elmwood, ON N0G 1S0

↑	1.	Head north on Mulock Rd toward Concession Rd 12	
			1.7 km
↱	2.	Turn right at the 1st cross street onto Concession Rd 12	
			2.8 km
↱	3.	Turn right onto Baseline	
			2.0 km
↱	4.	Turn right onto Concession 10 Ndr/Concession Rd 10	
			2.8 km
↱	5.	Turn right onto Mulock Rd	
			150 m

174433 Mulock Rd

Elmwood, ON N0G 1S0

APPENDIX F

PUBLIC INFORMATION CENTRE FEEDBACK

Table F1: PIC Feedback

Form of Communication	Summary of Comments
PIC Comment Sheet	- Structure G-037 floods between the south bend and Vinegar Hill - Flooding will trap families between the bridge and south bend - Closure would create a significant detour
PIC Comment Sheet	- Concerned over the weighting for local access - A bridge that bisects a single property would outweigh a road segment that contains over 10 properties - Budget should be allocated for maintenance as opposed to building new
PIC Comment Sheet	- The closure of Structure N-056 creates an inconvenient detour
Online Feedback Form	- Proposal for using metal plates on Structure N-055 to restrict access to only allow snowmobiles - The Hampden Bridge is the main connecting trail for Durham
Online Feedback Form	- When roads are closed, Concession 2 NDR is a major east-west route - The closure of Kennedy Bridge creates a lengthy detour - Many farmers and residents used this road to travel freely
Online Feedback Form	- Gravel pit traffic on Concession 4 NDR will accelerate deterioration of bridges on this road - Cost should be covered by applicants, not the taxpayers
Online Feedback Form	- Is there an option for temporary repair options for Structure N-055 and N-056 - Difficult to take farm equipment anywhere with closures
Online Feedback Form	- All bridges need to be in working order eventually - Structures need to be maintained

Online Feedback Form	- Would like to see Kennedy Bridge repaired
Online Feedback Form	- Bridge near Priceville and Artemesia-Glenelg Townline needs attention as it is too narrow and rough
Email	- Gravel pits operating at the corner of Concession 4 NDR and Allan Park Road have significantly increased heavy truck traffic in the surrounding area - With Kennedy Bridge closed there are concerns that once Structure B-003 is closed on Concession 6 NDR, Concession 4 NDR will see alarge increase in traffic volume and deterioration of those structures