

Appendix I

Evaluation of Alternative Routes

Factor/Sub-factor	N2-A	N2-B	Comments:
Transportation			
Accommodation of future vehicular travel demand	No difference	No difference	
Accommodation of pedestrian and cyclist movements	No difference	No difference	
Travel safety	No sub-standards elements	Better geometry	refinement of alignment possible (design alternatives)
Emergency service	No difference	No difference	,
Future transportation network connectivity and compatibility	No difference	No difference	
Commercial goods movement	No difference	No difference	
Recreational trails	Trail modifications required along S. Monck. Trail crossings	Fewer conflicts with trails	Corridor can be designed to support snowmobiles and vehicles
Natural Environment			
Watercourses/fisheries/ aquatic habitat	crossings upgraded	new watercourse crossings	
Vegetation and woodlots	edge impacts along existing gravel road	new alignment - undisturbed area	Avoidance is preferred mitigation measure
Wildlife/terrestrial habitat	edge impacts along existing gravel road	new alignment - undisturbed area	Avoidance is preferred mitigation measure
Wetlands	edge impacts along existing gravel road	new alignment - undisturbed area	Avoidance is preferred mitigation measure
Species at Risk	edge impacts along existing gravel road	new alignment - undisturbed area	Avoidance is preferred mitigation measure
Socio-cultural Environment			
Noise	close to one OLA		mitigation includes screening with berms and vegetation
Visual aesthetics	3 homes with reduced aesthetics due to new road		mitigation includes screening with berms and vegetation
Residential property required	more properties impacted but less area	Fewer properties but more area	Impacts to properties with existing buildings a greater concern
Recreational/property impacts	More seasonable property impacts	minimum impacts to seasonal property	parcels are generally large
Other property required	Some impact on vacant, commercial and managed forest	More impact on vacant lanes and managed forest	
Compatibility with existing/ future land uses/ plans	No difference	No difference	
Archaeological resources	Entire route lies in an area of archaeological potential.	Most of the route lies in an area of archaeological potential.	
Heritage resources	3 historic buildings along existing corridor	no historic buildings	buildings can be located and avoided in design

Economic Environment			
Future development potential	No difference	No difference	
Accessibility to existing commercial areas	No difference	No difference	
Engineering/Constructability			
Construction impacts		Intersections required with Falkenburg Rd, Nichols Rd and South Monck Dr. 3.79 km of new road construction including S. Monck Drive, 2 major creek crossings	
Utility/service conflicts	local power lines need relocation	No power lines require relocation	(can be planned to coincide with scheduled renewal of lines)
Construction Cost			
Estimated capital construction cost	150,800 m3 rock cut; 38,300 fill	72,300 m3 rock cut; 74,000 fill	
Estimated utility relocation cost	local power lines to be relocated		(can be planned to coincide with scheduled renewal of lines)

Higher Impact = 3
Average Impact = 2
Lower Impact = 1

Factor/Sub-factor	N2-A	Rank	N2-B	Rank	Lower Impact = 1 Unit of Measure
Transportation	112-74	ivalik	IVZ*D	ivalik	OTHE OF MEASURE
Accommodation of future vehicular travel demand	Both are in the same area and would attract the same traffic away from downtown. Alternative A is slightly longer but the difference in travel time would not be significant.	2	Both are in the same area and would attract the same traffic away from downtown. Alternative A is slightly longer than alternative B but the difference in travel time would not be significant.	2	Relative attractiveness/potential difference in travel time of alternative routes. (Less Attractive = 3, Average Attractiveness = 2, Highest Attractiveness= 1)
Accommodation of pedestrian and cyclist movements	Paved shoulders to accommodate non- auto modes. Connections to trails as appropriate.	1	Paved shoulders to accommodate non-auto modes. Connections to trails as appropriate.	1	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for non-auto modes (Poor Ability = 3, Average Ability= 2, Highest Ability = 1)
Travel safety	No sub-standards elements	2	Better geometry	1	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	Similar transportation service, alleviate traffic in downtown to a similar extent and improve access to rural properties in the Falkenburg-South Monck areas. May provide better access to some existing residents.	2	Similar transportation service, alleviate traffic in downtown to a similar extent and improve access to rural properties in the Falkenburg- South Monck areas.	2	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highest Ability= 1)
Future transportation network connectivity and compatibility	Similar network connectivity improving the link between Falkenburg Road and South Monck Drive. Compatible with planned infrastructure and development.	2	Similar network connectivity improving the link between Falkenburg Road and South Monck Drive. Compatible with planned infrastructure and development.	2	Relative improvement in connectivity and compatibility with other planned infrastructure. (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	Part of a desirable route allowing trucks to bypass downtown. Helps alleviate traffic congestion downtown.	1	Part of a desirable route allowing trucks to bypass downtown. Helps alleviate traffic congestion downtown.	1	Comparative ability of route to accommodate commercial vehicles. (Lower = 3, Average = 2, Higher = 1)
Recreational trails	Trail modifications required along S. Monck. Trail crossings	2	Fewer conflicts with trails	1	Comparative negative effect on trails affected (Higher = 3, Average = 2, Lower = 1)
Natural Environment Watercourses/fisheries/		0	noutweter	2	Comparative negative impact on crossings
aquatic habitat Vegetation and woodlots	crossings upgraded	2	new watercourse crossings	3	(Higher = 3, Average = 2, Lower = 1) Comparative negative impact on vegetation and
	edge impacts along existing gravel road	1	new alignment - undisturbed area	3	woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat	edge impacts along existing gravel	1	new alignment - undisturbed area	3	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands	edge impacts along existing gravel road	1	new alignment - undisturbed area	3	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk	edge impacts along existing gravel road	1	new alignment - undisturbed area	3	Comparative negative impact on species at risk (Higher = 3, Average = 2, Lower = 1)
Socio-cultural Environment Noise					Comparative number of sensitive receptors
Visual aesthetics	close to one OLA	2	no identified impacts	1	negatively impacted (Higher = 3, Average = 2, Lower = 1) Comparative number of properties with negative
Residential property required	4 homes with reduced aesthetics due to new road	3	Views of road shielded	1	visual impacts (Higher = 3, Average = 2, Lower = 1) Comparative number of residential
	more properties impacted but less area	3	Fewer properties but more area	2	properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recreational
Recreational/property impacts	More seasonable property impacts	3	minimum impacts to seasonal property	2	properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required	Some impact on vacant, commercial and managed forest	2	More impact on vacant lands and managed forest	3	Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Compatibility with existing/ future land uses/ plans	Outside the urban area, part of a corridor providing an alternative route for land developments on the west side of Bracebridge.	2	Outside the urban area, part of a corridor providing an alternative route for land developments on the west side of Bracebridge.	2	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	Entire route lies in an area of archaeological potential.	2	Most of the route lies in an area of archaeological potential.	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources	4 historic buildings along existing corridor	2	no historic buildings	1	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Economic Environment Future development potential	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge.	1	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge.	1	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)
Accessibility to existing commercial areas	Will attract the same amount of traffic away from existing routes.	1	Will attract the same amount of traffic away from existing routes.	1	Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)
	Intersections required with Falkenburg Rd, Nichols Rd and South Monck Dr. 1.4 km of road construction along Falkenburg, 3.45 km of new road construction including S. Monck reconstruction, 1 major creek crossing.	2	Intersections required with Falkenburg Rd, Nichols Rd and South Monck Dr. 3.79 km of new road construction including S. Monck Drive, 2 major creek crossings	3	Comparative number of at-grade intersections, km of road construction along existing road corridors and/or km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	local power lines need relocation	2	No power lines require relocation	1	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost Estimated capital					Comparative cost based on preliminary profile
construction cost Estimated utility relocation	150,800 m3 rock cut; 38,300 fill	3	72,300 m3 rock cut; 74,000 fill (less rock exc)	2	and cross-section. (Higher = 3, Average = 2, Lower = 1)
estimated utility relocation cost	local power lines to be relocated	2	no utilities identified	1	Comparative cost based on previous experience and consultation with affected utilities. (Higher = 3, Average = 2, Lower = 1)

Segment N2

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and	
compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	1011
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

			Commo	n Scale
Factor/Sub-factor	N2-A	N2-B	N2-A	N2-B
Transportation				
Accommodation of future vehicular travel	2	2	0.67	0.67
demand	2		0.67	0.67
Accommodation of pedestrian and cyclist	1	1	0.33	0.33
movements	ı	ı	0.33	
Travel safety	2	1	0.67	0.33
Emergency service	2	2	0.67	0.67
Future transportation network connectivity and	2	2	0.67	0.67
compatibility	2	2	0.67	0.07
Commercial goods movement	1	1	0.33	0.33
Recreational trails	2	1	0.67	0.33
Natural Environment				
Watercourses/fisheries/ aquatic habitat	2	3	0.67	1.00
Vegetation and woodlots	1	3	0.33	1.00
Wildlife/terrestrial habitat	1	3	0.33	1.00
Wetlands	1	3	0.33	1.00
Species at Risk	1	3	0.33	1.00
Socio-cultural Environment				
Noise	2	1	0.67	0.33
Visual aesthetics	3	1	1.00	0.33
Residential property required	3	2	1.00	0.67
Recreational/property impacts	3	2	1.00	0.67
Other property required	2	3	0.67	1.00
Compatibility with existing/ future land uses/	2	2	0.67	0.67
plans	2	2	0.67	0.07
Archaeological resources	2	2	0.67	0.67
Heritage resources	2	1	0.67	0.33
Economic Environment				
Future development potential	1	1	0.33	0.33
Accessibility to existing commercial areas	1	1	0.33	0.33
Engineering/Constructability				
Construction impacts	2	3	0.67	1.00
Utility/service conflicts	2	1	0.67	0.33
Construction Cost				
Estimated capital construction cost	3	2	1.00	0.67
Estimated utility relocation cost	2	1	0.67	0.33

		Weighted Ranking			
Factor/Sub-factor	\Maiah4	NO A	No B		
Transportation	Weight	N2-A	N2-B		
Accommodation of future vehicular travel demand					
Accommodation of future vehicular travel demand	10	6.7	6.7		
Accommodation of pedestrian and cyclist	4	1.3	1.3		
movements					
Travel safety	10	6.7	3.3		
Emergency service	10	6.7	6.7		
Future transportation network connectivity and compatibility	4	2.7	2.7		
Commercial goods movement	4	1.3	1.3		
Recreational trails	4	2.7	1.3		
Natural Environment					
Watercourses/fisheries/ aquatic habitat	4	2.7	4.0		
Vegetation and woodlots	4	1.3	4.0		
Wildlife/terrestrial habitat	4	1.3	4.0		
Wetlands	10	3.3	10.0		
Species at Risk	10	3.3	10.0		
Socio-cultural Environment					
Noise	10	6.7	3.3		
Visual aesthetics	4	4.0	1.3		
Residential property required	10	10.0	6.7		
Recreational/property impacts	10	10.0	6.7		
Other property required	10	6.7	10.0		
Compatibility with existing/ future land uses/ plans	4	2.7	2.7		
Archaeological resources	1	0.7	0.7		
Heritage resources	1	0.7	0.3		
Economic Environment					
Future development potential	4	1.3	1.3		
Accessibility to existing commercial areas	4	1.3	1.3		
Engineering					
Construction impacts	4	2.7	4.0		
Utility/service conflicts	4	2.7	1.3		
Construction Cost					
Estimated capital construction cost	1	1.0	0.7		
Estimated utility relocation cost	1	0.7	0.3		
		91.0	96.0		

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low

Factor/Sub-factor	Alternative 5-A	Alternative 5-B	Comments:
Transportation			
Accommodation of future vehicular travel demand	Alt A has a T-intersection at 118, requiring two turns to access Golden Beach Rd and potentially the future West Transpo Corridor	Alt B connects with Golden Beach Rd and potentially the future West Transpo Corridor at 118, facilitating movements at 118	Both in same area and attract same traffic from downtown
Accommodation of pedestrian and cyclist movements	No difference between alternatives. Bot to accommodate		
Travel safety	Design speed of 80 km/h. Tangent alignment with T-intersections at Hwy 118	Design speed of 80 km/h. Min radii used. Would require new driveway for Animal Hospital	
Emergency service	Both provide similar emergency:	service and improve rural access	
Future transportation network connectivity and compatibility	Alt A is compatible with planned infrastructure and development	Alt B provides better network connectivity with the connection to Golden Beach Rd & future West Transpo Corridor at 118	
Commercial goods movement	Both part of desirable route outside dov	vntown. Both alleviate traffic congestion	
Recreational trails	Both have no crossings of OFS	SC trails or Trans Canada Trail	
Natural Environment			
Watercourses/fisheries/ aquatic habitat	channel crossing, with intermittent flow. Water inputs from upstream sources and road drainage	2 channel crossings, 1 with intermittent flow.	Pools observed upstream and downstream of Monck Rd.
Vegetation and woodlots	Affects edge of meadown that contain and orch	s smooth brome grass, Timothy grass ard grass	
Wildlife/terrestrial habitat	Community types are associated with fo	Community types are associated with foraging habitat for insectivorous species	
Wetlands	Overall community not consi	Overall community not considered provincially significant	
Species at Risk	Affects some habitat for	or Threatened Bobolink	
Socio-cultural Environment			
Noise	2 receptors	1 receptor	
		i receptor	
Visual aesthetics			
	One house within 200 m of the corri	dors and its view will be unchanged	
Visual aesthetics Residential property required Recreational/property impacts		dors and its view will be unchanged 1 parcel - 5m width (280m2)	
Residential property required	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2	dors and its view will be unchanged 1 parcel - 5m width (280m2)	
Residential property required Recreational/property impacts	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2)	dors and its view will be unchanged 1 parcel - 5m width (280m2) pnal residential identified	Both alternatives part of a corridor providing an alt route for land developments on the
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha)	dors and its view will be unchanged 1 parcel - 5m width (280m2) onal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected,	dors and its view will be unchanged 1 parcel - 5m width (280m2) onal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected,	dors and its view will be unchanged 1 parcel - 5m width (280m2) conal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis	dors and its view will be unchanged 1 parcel - 5m width (280m2) anal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alter	dors and its view will be unchanged 1 parcel - 5m width (280m2) anal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment Future development potential Accessibility to existing commercial areas	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alter	dors and its view will be unchanged 1 parcel - 5m width (280m2) chal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118 Finative route for land developments on	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment Future development potential Accessibility to existing commercial	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alter	dors and its view will be unchanged 1 parcel - 5m width (280m2) chal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118 Finative route for land developments on	
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment Future development potential Accessibility to existing commercial areas Engineering/Constructability	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alte Both attract the same amount of Intersection required with MR 118. 660m of road construction along existing road corridor. No major creek crossings	dors and its view will be unchanged 1 parcel - 5m width (280m2) conal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118 Fornative route for land developments on traffic away from existing routes Intersection with MR 118. 680m of new road construction and removal of existing road where no longer needed.	# of at grade intersections & grade seperations, # of km of road construction along existing road corridors and # of km of new road construction, # of major creek
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment Future development potential Accessibility to existing commercial areas Engineering/Constructability Construction impacts	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alte Both attract the same amount of Intersection required with MR 118. 660m of road construction along existing road corridor. No major creek crossings	dors and its view will be unchanged 1 parcel - 5m width (280m2) conal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118 Frantive route for land developments on traffic away from existing routes Intersection with MR 118. 680m of new road construction and removal of existing road where no longer needed. No major creek crossings	# of at grade intersections & grade seperations, # of km of road construction along existing road corridors and # of km of new road construction, # of major creek crossings # of pipelines and power transmission line
Residential property required Recreational/property impacts Other property required Compatibility with existing/ future land uses/ plans Archaeological resources Heritage resources Economic Environment Future development potential Accessibility to existing commercial areas Engineering/Constructability Construction impacts Utility/service conflicts	One house within 200 m of the corri 2 parcels - 5m width (700m2) No recreational or seaso Commercial: 2 parcels - 5m width (0.2 ha & 365 m2) Farmland: 1 parcel - 5m width (0.3ha) Road uses existing road right-of-way Less undisturbed and affected, One known historic buildings exis Both part of a corridor providing an alte Both attract the same amount of Intersection required with MR 118. 660m of road construction along existing road corridor. No major creek crossings	dors and its view will be unchanged 1 parcel - 5m width (280m2) conal residential identified Farmland/Driving range: 1.6 ha Road travels through an existing driving range/golf course Greater amount of undisturbed land ts roughly 700m north of Hwy 118 Frantive route for land developments on traffic away from existing routes Intersection with MR 118. 680m of new road construction and removal of existing road where no longer needed. No major creek crossings	# of at grade intersections & grade seperations, # of km of road construction along existing road corridors and # of km of new road construction, # of major creek crossings # of pipelines and power transmission line

Higher Impact = 3
Average Impact = 2
Lower Impact = 1
Alternative 5-B

Ranking for Sensitivity Analysis.			Lower Impact = 2		
Factor/Sub-factor	Alternative 5-A	Rank	Alternative 5-B	Rank	Unit of Measure
Transportation Accommodation of future vehicular	T-intersection at 118, requiring two		Connects with Golden Beach Rd and		Relative attractiveness/potential difference in travel
travel demand	turns to access Golden Beach Rd and potentially the future West Transpo Corridor	2	potentially the future West Transpo Corridor at 118, facilitating movements at 118	1	time of alternative routes. (Less Attractive = 3, Average Attractiveness = 2, Highest Attractiveness= 1)
Accommodation of pedestrian and cyclist movements	Designed with paved shoulders to accommodate non-auto modes.	1	Designed with paved shoulders to accommodate non-auto modes.	1	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for non-auto modes (Poor Ability = 3, Average Ability = 2, Highest Ability = 1)
Travel safety	Tangent alignment with T-intersections at Hwy 118	1	Min radii used. Would require new driveway for Animal Hospital	2	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	Provide similar emergency service and improve access to rural properties in the South Monck area.	2	Provide similar emergency service and improve access to rural properties in the South Monck area.	2	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highest Ability= 1)
Future transportation network connectivity and compatibility	Compatible with planned infrastructure and development	2	Provides better network connectivity with the connection to Golden Beach Rd & future West Transpo Corridor at 118	1	Relative improvement in connectivity and compatibility with other planned infrastructure. (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	Part of a desirable route allowing trucks to bypass downtown. Helps alleviate traffic congestion downtown.	1	Part of a desirable route allowing trucks to bypass downtown. Helps alleviate traffic congestion downtown.	1	Comparative ability of allowing routes outside of downtown area for commercial vehicles. (Lower = 3, Average = 2, Higherr = 1)
Recreational trails	No crossings of OFSC trails or Trans Canada Trail in this section.	1	No crossings of OFSC trails or Trans Canada Trail in this section.	1	Comparative negative effect on number of trails affected (Higher = 3, Average = 2, Lower = 1)
Natural Environment Watercourses/fisheries/ aquatic habitat	channel crossing, with intermittent flow. Water inputs from upstream sources and road drainage	1	2 channel crossings, 1 with intermittent flow.	2	Comparative negative impact on crossings (Higher = 3, Average = 2, Lower = 1)
Vegetation and woodlots	Effects edge of meadow containing common species. This area was farmed historically and has gone fallow.	1	Effects edge of meadow containing common species. This area was farmed historically and has gone fallow.	1	Comparative negative impact on vegetation and woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat	Community types are associated with foraging habitat for insectivorous species.	2	Community types are associated with foraging habitat for insectivorous species.	2	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands	Affects meadow marsh associated with channel and contains reed canary grass. Not considered provincially significant and contains common species.	2	Affects meadow marsh associated with channel and contains reed canary grass. Not considered provincially significant and contains common species.	2	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk	Affects some habitat for Threatened Bobolink. During investigations, a Bobolink individual was heard calling within a field to the north.	3	Affects some habitat for Threatened Bobolink. During investigations, a Bobolink individual was heard calling within a field to the north.	3	Comparative negative impact on species at risk (Higher = 3, Average = 2, Lower = 1)
Socio-cultural Environment Noise					Comparative number of sensitive receptors
Visual aesthetics	2 receptors One house is within 200 m of the	2	1 receptor One house is within 200 m of the	1	negatively impacted (Higher = 3, Average = 2, Lower = 1) Comparative number of properties with negative
	corridors and its full view will be unchanged.	1	corridors and its full view will be unchanged.	1	visual impacts (Higher = 3, Average = 2, Lower = 1)
Residential property required	2 parcels - 3m width (700m2)	3	1 parcel - 3m width (280m2)	2	Comparative number of residential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Recreational/property impacts	No recreational or seasonal residential identified	1	No recreational or seasonal residential identified	1	Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required	Commercial: 2 parcels - 3m width (0.2 ha & 463 m2) Farmland: 1 parcel - 3m width (0.4ha)	1	Farmland/Driving range: 1.6 ha	3	Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Compatibility with existing/ future land uses/ plans	Road uses existing road right-of-way	1	Road travels through an existing driving range/golf course	3	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	Less undisturbed and affected, requiring Stage 2 assessment	1	Greater amount of undisturbed land affected, requiring Stage 2	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources Economic Environment	One known historic buildings exists roughly 700 m north of Highway 118.	1	One known historic buildings exists roughly 700 m north of Highway 118.	1	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Future development potential	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge.	1	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge .	1	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)
Accessibility to existing commercial areas	Will attract the same amount of traffic away from existing routes, thereby improving access for those wanting to visit the commercial areas.	1	Will attract the same amount of traffic away from existing routes, thereby improving access for those wanting to visit the commercial areas.	1	Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)
Engineering/Constructability Construction impacts					
	Intersection required with MR 118. 660m of road construction along existing road corridor	1	Intersection with MR 118. 680m of new road construction and removal of existing road where no longer needed	2	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	No crossings. Some pole relocations.	1	No crossings. Some pole relocations.	1	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost Estimated capital construction cost	Road improvement only - 660m 4200 m3 rock exc 4700 m3 earth exc 900 m3 fill	1	New road construction - 680m 2300 m3 rock exc 4800 m3 earth exc 200 m3 fill	2	Comparative cost based on preliminary profile and cross-section. (Higher = 3, Average = 2, Lower = 1)
Estimated utility relocation cost	Some power poles may require relocation	2	Some power poles may require relocation	2	Comparative cost based on previous experience and consultation with affected utilities. (Higher = 3, Average = 2, Lower = 1)

Segment S5

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	
	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and	
compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

	Common Scale			
Factor/Sub-factor	5-A	5-B	5-A	5-B
Transportation				
Accommodation of future vehicular travel demand	2	1	0.67	0.33
Accommodation of pedestrian and cyclist movements	1	1	0.33	0.33
Travel safety	1	2	0.33	0.67
Emergency service	2	2	0.67	0.67
Future transportation network connectivity and compatibility	2	1	0.67	0.33
Commercial goods movement	1	1	0.33	0.33
Recreational trails	1	1	0.33	0.33
Natural Environment				
Watercourses/fisheries/ aquatic habitat	1	2	0.33	0.67
Vegetation and woodlots	1	1	0.33	0.33
Wildlife/terrestrial habitat	2	2	0.67	0.67
Wetlands	2	2	0.67	0.67
Species at Risk	3	3	1.00	1.00
Socio-cultural Environment				
Noise	2	1	0.67	0.33
Visual aesthetics	1	1	0.33	0.33
Residential property required	3	2	1.00	0.67
Recreational/property impacts	1	1	0.33	0.33
Other property required	1	3	0.33	1.00
Compatibility with existing/ future land uses/ plans	1	3	0.33	1.00
Archaeological resources	1	2	0.33	0.67
Heritage resources	1	1	0.33	0.33
Economic Environment				
Future development potential	1	1	0.33	0.33
Accessibility to existing commercial areas	1	1	0.33	0.33
Engineering/Constructability				
Construction impacts	1	2	0.33	0.67
Utility/service conflicts	1	1	0.33	0.33
Construction Cost				
Estimated capital construction cost	1	2	0.33	0.67
Estimated utility relocation cost	2	2	0.67	0.67

		Weighted Ranking		
Factor/Sub-factor	Majaht	E A	5-B	
Transportation	Weight	5-A	0-Б	
Accommodation of future vehicular travel demand				
Accommodation of future vehicular travel demand	10	6.7	3.3	
Accommodation of pedestrian and cyclist	4	1.3	1.3	
movements Travel safety	10	3.3	6.7	
Emergency service	10	6.7	6.7	
Future transportation network connectivity and	10	0.7	0.7	
compatibility	4	2.7	1.3	
Commercial goods movement	4	1.3	1.3	
Recreational trails	4	1.3	1.3	
Natural Environment				
Watercourses/fisheries/ aquatic habitat	4	1.3	2.7	
Vegetation and woodlots	4	1.3	1.3	
Wildlife/terrestrial habitat	4	2.7	2.7	
Wetlands	10	6.7	6.7	
Species at Risk	10	10.0	10.0	
Socio-cultural Environment				
Noise	10	6.7	3.3	
Visual aesthetics	4	1.3	1.3	
Residential property required	10	10.0	6.7	
Recreational/property impacts	10	3.3	3.3	
Other property required	10	3.3	10.0	
Compatibility with existing/ future land uses/ plans	4	1.3	4.0	
Archaeological resources	1	0.3	0.7	
Heritage resources	1	0.3	0.3	
Economic Environment				
Future development potential	4	1.3	1.3	
Accessibility to existing commercial areas	4	1.3	1.3	
Engineering/Constructability				
Construction impacts	4	1.3	2.7	
Utility/service conflicts	4	1.3	1.3	
Construction Cost				
Estimated capital construction cost	1	0.3	0.7	
Estimated utility relocation cost	1	0.7	0.7	
		78.3	83.0	

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

Ranking for Sensitivity Analysis:					
Factor/Sub-factor Transportation	Alternative S2-A	Alternative S2-B	Alternative S2-C	Alternative S2-D	Comments:
Accommodation of future vehicular	All in same vicinity and woul	d attract same traffic from downtown. D	I ifference in travel time would not be sigr	ificant hetween alternatives	
travel demand	All in Same vicinity and woul	d attract same traine from downtown. D			
Accommodation of pedestrian and				Best grades with grade seperation of	
cyclist movements	Steep grades to	High Falls Road	High Falls Road and new road connection between S2-C and High	High Falls Road and new road connection between S2-C route and	
			Falls Road	High Falls Road	
Travel safety	Interceptions with Link Falls Dood and	Internactions with Link Falls Dood		Trigit Fallo Tead	
•	Intersections with High Falls Road and Bonnell Road on steep grades. 7	Intersections with High Falls Road located at reasonable grades. 10	New connection from BNTC to High Falls Road with grade seperation of	Intersection of BNTC and High Falls	
	existing driveways on the section of	existing driveways on the section of	the BNTC and High Falls Road. 1	Road located in area with gentle	
	High Falls Road included in the BNTC	High Falls Road included in the BNTC	existing driveway north of BNTC	grades. No requirements for grade	
			alignment would need to be connected	seperation. No driveways to be	
	the BNTC	the BNTC	directly to the BNTC	connected directly to the BNTC.	
Emergency service	All alternatives connect to High Falls	Road. Steeper grades and frequent	All alternatives assess to Link Falls D		
	driveways may be a concern. Alter	natives provide similar service for	for emergency vehicles and improve	pad. Alternatives provide similar service	
	emergency vehicles and improve acce			ad area.	
Tuesda autotica activida acceptivita	Road	area.			
Transportation network connectivity and compatibility	Provide similar network connectivity in		ad and a controlled-access Highway 11	in the future. They are compatible with	
and compatibility		planned infrastructre and develo	pment noted in the Official Plans.		
Commercial goods movement	Part of a route allowing trucks to bypass	s downtown. Alleviate traffic congestion	Part of a route allowing trucks to bypas	s downtown. Alleviate traffic congestion	
	downtown. Add truck traffic to		down		
Recreational trails		No trail crossing	s in this section.		
Natural Environment					
Watercourses/fisheries/ aquatic		Crease 2 caldwater	Crana 2 caldwate		
habitat		Crosses 2 coldwater watercourses with likely Brook Trout habitat. (1	Crosses 2 coldwater watercourses with likely Brook Trout habitat. Flow	Crosses 2 coldwater watercourses	
		existing) Flow runs southerly	runs southerly	futher upstream than A, B & C	
Manatatian and one dista			Taile seamony		
Vegetation and woodlots		Forest stands of decidure	ous and coniferous trees, cultural woodla	and and cultural meadow	
		1 orest stands or decidate	and connerous trees, cultural woodle	ind and cultural meadow	
Wildlife/terrestrial habitat					
		Route crosses through incised	d valley system. Disrupts landscape con	nectivity for wildlife movement	
NAC at		A#			
Wetlands		Affects swamp thicket communities at existing crossing location	Affects swamp thicket cor	nmunities at new crossing	
Species at Risk			I itat for Hognose, Ribbon snake (Provinc	ially threatened species)	
Socio-cultural Environment		, , , , , , , , , , , , , , , , , , , ,	,	, , , , , , , , , , , , , , , , , , ,	
Noise		11 receptors	2 receptors	1 receptor	
Visual aesthetics		15 houses within 200m of corridor	12 houses within 200m	4 houses within 200m	
		11 full views 4 obscured distant views	6 full views 6 obscured distant views	1 full view 3 obscured distant views	
Residential property required					
		4 parcels (1.7 & 0.3ha, 81 & 70m2)	2 parcels (1.4 & 0.3 ha)	3 parcels (0.5, 1.2 & 0.05 ha)	
Recreational/property impacts			N/A		
Other property required		\/acest: 2 parcels (1.1.8.0.1 ha)	Vacant: 4 parcels (0.7, 0.4 & 0.1 ha &	Vacant: 3 parcels (1.7, 0.14 & 0.1ha)	
		Vacant: 2 parcels (1.1 & 0.1 ha)	110m2) Farmland: 1 parcel (1.0 ha)	Farmland: 1 parcel (670 m2)	
Compatibility with existing/ future		Outside urban area and part of a c	corridor providing alternative route for lar	nd developments west and north in	
land uses/ plans		·	Bracebridge	·	
Archaeological resources			of archaelogical potential, which includes		
Heritage resources			ally on lots fronting High Falls Road on the	·	
Economic Environment		detaili	ed enough to distinguish between alterna	201VO3.	
Future development potential		Part of a corridor providing an	alternative route for land developments of	on the west side of Bracebridge	
Accessibility to existing commercial		Will attract same amount of traffic a	way from existing routes, thereby improve	ring access for those wanting to visit	
areas			commerical areas downtown		
Engineering Construction impacts			Intersections with High Falls Road (1)		
		Intersections with High Falls Road (2)	and Bonnell Road (1). Grade	Intersections with High Falls Road (1)	# of at grade intersections & grade
		and Bonnell Road (1)	seperation of High Falls Road	and Bonnell Road (1)	seperations
Construction impacts		1.3 km of new road. 400 m along	1.4 km of new road including		# of km of road construction along existing
		existing road. Staging and traffic mgmt	connection to High Falls Road	1.5 km of new road	road corridors and # of km of new road
		required for section of High Falls Road included in BNTC	required due to grade seperation		construction
Construction impacts		Crosses creek at current High Falls	High fills (40.9.42mg //) at are also relieve	Highort fills (9.9.49.11) agrees	
•		Road location, second creek with 2+ m	High fills (10 & 12m +/-) at creek valley crossings	Highest fills (8 & 18 +/-) across creek valleys	# of major creek crossings
Hillian dan dan and Carl		fill		•	# of pinalings and account.
Utility/service conflicts		Crosses pipeline at current crossing of High Falls Road	New pipeline crossing north of HFR. Road profile can be adjusted	New pipeline crossing north of HFR. Road profile can be adjusted	# of pipelines and power transmission line crossings
Construction Cost		riigiri alio INDAU	nodu prome can be aujusteu	rodu prome cam be aujusteu	иозынуз
Estimated capital construction cost		46,200 m3 rock exc	26,300 m3 rock exc	34,300 m3 rock exc	
		9,000 m3 earth exc	6,600 m3 earth exc	8,800 m3 earth exc	
		22,600 m3 fill	45,400 m3 fill	56,300 m3 fill	Major quantities required
		New medium span creek culvert	Grade seperation, pipeline cross, large		
Estimated utility relocation cost		Crossed pipeline at current HFR	& medium span creek culvert New crossing of pipeline north of HFR.	medium span creek culvert New crossing of pipeline north of HFR.	
		crossing	Road profile can be adjusted	Road profile can be adjusted	Description of requirements
		*			

screened out due to safety issues

Higher Impact = 3
Average Impact = 2
Lower Impact = 1

Factor/Sub-factor	Alternative S2-A	Rank	Alternative S2-B	Rank	Alternative S2-C	Rank	Alternative S2-D	Rank	Unit of Measure
Transportation									
Accommodation of future vehicular travel demand	All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.	1	All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.	1	All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.		All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.	1	Relative attractiveness/potential difference in travel time of alternative routes. (Less Attractive = 3, Average Attractiveness = 2, Highest Attractiveness= 1)
Accommodation of pedestrian and cyclist movements	Steep grades to High Falls Road	3	Steep grades to High Falls Road	3	Better grades with grade separation of High Falls Road and new road connection between S2-C and High Falls Road	2	Best grades with grade separation of High Falls Road and new road connection between S2-C route and High Falls Road	1	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for non-auto modes (Poor Ability = 3, Average Ability= 2, Highest Ability = 1)
Travel safety	Intersections with High Falls Road and Bonnell Road on steep grades. 7 existing driveways on the section of High Falls Road included in the BNTC would need to be connected directly to the BNTC	3	Intersections with High Falls Road located at reasonable grades. 10 existing driveways on the section of High Falls Road included in the BNTC would need to be connected directly to the BNTC	2	New connection from BNTC to High Falls Road with grade separation of the BNTC and High Falls Road. 1 existing driveway north of BNTC alignment would need to be connected directly to the BNTC	2	Intersection of BNTC and High Falls Road located in area with gentle grades. No requirements for grade separation. No driveways to be connected directly to the BNTC.	1	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	All alternatives connect to High Falls Road. Steeper grades and frequent driveways may be a concern. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.	3	All alternatives connect to High Falls Road. Steeper grades and frequent driveways may be a concern. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.	3	All alternatives connect to High Falls Road. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.		All alternatives connect to High Falls Road. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.	2	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highest Ability= 1)
Transportation network connectivity and compatibility	Provide similar network connectivity improving the link between High Falls Road and a controlled-access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1	Provide similar network connectivity improving the link between High Falls Road and a controlled-access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1	Provide similar network connectivity improving the link between High Falls Road and a controlled-access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1	Provide similar network connectivity improving the link between High Falls Road and a controlled-access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1	Relative improvement in connectivity and compatibility with other planned infrastructure. (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown. Add truck traffic to a section of High Falls Road	2	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown. Add truck traffic to a section of High Falls Road	2	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown.	1	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown.	1	Comparative ability of allowing routes outside of downtown area for commercial vehicles. (Lower = 3, Average = 2, Higherr = 1)
Recreational trails	No trail crossings in this section.	1	No trail crossings in this section.	1	No trail crossings in this section.	1	No trail crossings in this section.	1	Comparative negative effect on number of trails affected (Higher = 3, Average = 2, Lower = 1)
Natural Environment									
Watercourses/fisheries/ aquatic habitat			Crosses 2 coldwater watercourses with likely Brook Trout habitat. (1 existing) Flow runs southerly	1	Crosses 2 coldwater watercourses with likely Brook Trout habitat. Flow runs southerly	2	Crosses 2 coldwater watercourses further upstream than A, B & C	3	Comparative negative impact on crossings (Higher = 3, Average = 2, Lower = 1)
Vegetation and woodlots			Forest stands of deciduous and coniferous trees, cultural woodland and cultural meadow	2	Forest stands of deciduous and coniferous trees, cultural woodland and cultural meadow	2	Forest stands of deciduous and coniferous trees, cultural woodland and cultural meadow	2	Comparative negative impact on vegetation and woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat			Route crosses through incised valley system. Disrupts landscape connectivity for wildlife movement	2	Route crosses through incised valley system. Disrupts landscape connectivity for wildlife movement	2	Route crosses through incised valley system. Disrupts landscape connectivity for wildlife movement	2	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands			Affects swamp thicket communities at existing crossing location	1	Affects swamp thicket communities at new crossing	2	Affects swamp thicket communities at new crossing	3	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk			May potentially affect habitat for Hognose, Ribbon snake (Provincially	2	May potentially affect habitat for Hognose, Ribbon snake (Provincially	2	May potentially affect habitat for Hognose, Ribbon snake (Provincially	2	Comparative negative impact on species at risk
Socio-cultural Environment									
Noise			11 receptors	3	2 receptors	2	1 receptor	1	Comparative number of sensitive receptors negatively impacted (Higher = 3, Average = 2, Lower = 1)
Visual aesthetics			15 houses within 200m of corridor 11 full views 4 obscured distant views	3	12 houses within 200m 6 full views 6 obscured distant views	2	4 houses within 200m 1 full view 3 obscured distant views	1	Comparative number of properties with negative visual impacts (Higher = 3, Average = 2, Lower = 1)

Desidential property required							
Residential property required	4 parcels (1.7 & 0.3ha, 81 & 70m2)	3	2 parcels (1.4 & 0.3 ha)	1	3 parcels (0.5, 1.2 & 0.05 ha)	2	Comparative number of residential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Recreational/property impacts	None	1	None	1	None	1	Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required							Comparative number of other properties/area
	Vacant: 2 parcels (1.1 & 0.1 ha)	1	Vacant: 4 parcels (0.7, 0.4 & 0.1 ha & 110m2) Farmland: 1 parcel (1.0 ha)	2	Vacant: 3 parcels (1.7, 0.14 & 0.1ha) Farmland: 1 parcel (670 m2)	2	impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Compatibility with existing/ future land uses/ plans	Outside urban area and part of a corridor providing alternative route for land developments west and north in Bracebridge	1	Outside urban area and part of a corridor providing alternative route for land developments west and north in Bracebridge	1	Outside urban area and part of a corridor providing alternative route for land developments west and north in Bracebridge	1	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	All routes lie completely within areas of archaelogical potential, which includes the ROW within 300m of a permanent watercourse.	2	All routes lie completely within areas of archaelogical potential, which includes the ROW within 300m of a permanent watercourse.		All routes lie completely within areas of archaelogical potential, which includes the ROW within 300m of a permanent watercourse.	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources	Historic buildings shown schematically on lots fronting High Falls Road on the 1879 Township maps. This is not detailed enough to distinguish between alternatives.		Historic buildings shown schematically on lots fronting High Falls Road on the 1879 Township maps. This is not detailed enough to distinguish between alternatives.	2	Historic buildings shown schematically on lots fronting High Falls Road on the 1879 Township maps. This is not detailed enough to distinguish between alternatives.	2	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Economic Environment							
Future development potential	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)
Accessibility to existing commercial areas	Will attract same amount of traffic away from existing routes, thereby improving access for those wanting to visit commerical areas downtown		Will attract same amount of traffic away from existing routes, thereby improving access for those wanting to visit commerical areas downtown		Will attract same amount of traffic away from existing routes, thereby improving access for those wanting to visit commerical areas downtown	1	Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)
Engineering/constructability							
Construction impacts	Intersections with High Falls Road (2) and Bonnell Road (1), 1.3 km of new road. 400 m along existing road. Staging and traffic mgmt required for section of High Falls Road included in BNTC, Crosses creek at current High Falls Road location, second creek with 2+ m fill	2	Intersections with High Falls Road (1) and Bonnell Road (1). Grade separation of High Falls Road, 1.4 km of new road including connection to High Falls Road required due to grade separation, High fills (10 & 12m +/-) at creek valley crossings	3	Intersections with High Falls Road (1) and Bonnell Road (1), 1.5 km of new road, Highest fills (8 & 18 +/-) across creek valleys	1	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	Crosses pipeline at current crossing of High Falls Road	1	New pipeline crossing north of HFR. Road profile can be adjusted	3	New pipeline crossing north of HFR. Road profile can be adjusted	3	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost							
Estimated capital construction cost	46,200 m3 rock exc 9,000 m3 earth exc 22,600 m3 fill New medium span creek culvert	2	26,300 m3 rock exc 6,600 m3 earth exc 45,400 m3 fill Grade separation, pipeline cross, large & medium span creek culvert	3	34,300 m3 rock exc 8,800 m3 earth exc 56,300 m3 fill New pipeline crossing, large & medium span creek culvert	3	Comparative cost based on preliminary profile and cross-section. (Higher = 3, Average = 2, Lower = 1)
Estimated utility relocation cost	Crossed pipeline at current HFR crossing	1	New crossing of pipeline north of HFR. Road profile can be adjusted	3	New crossing of pipeline north of HFR. Road profile can be adjusted	3	Comparative cost based on previous experience and consultation with affected utilities. (Higher = 3, Average = 2, Lower = 1)

Segment S2

Factor/Sub-factor	Significance Level
Transportation	20101
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	Ů
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity	_
and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

					Common Scale			
Factor/Sub-factor	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative
	S2-A	S2-B	S2-C	S2-D	S2-A	S2-B	S2-C	S2-D
Transportation								
Accommodation of future vehicular travel	1	1	1	1	0.33	0.33	0.33	0.33
demand	ı	ı	Į.	ı	0.33	0.33	0.33	0.33
Accommodation of pedestrian and cyclist	3	3	2	1	1.00	1.00	0.67	0.33
movements	3	3	2	ı	1.00	1.00	0.67	0.33
Travel safety	3	2	2	1	1.00	0.67	0.67	0.33
Emergency service	3	3	2	2	1.00	1.00	0.67	0.67
Future transportation network connectivity	1	1	1	1	0.33	0.33	0.33	0.33
and compatibility		ļ	ı	· ·	0.33	0.33	0.33	0.33
Commercial goods movement	2	2	1	1	0.67	0.67	0.33	0.33
Recreational trails	1	1	1	1	0.33	0.33	0.33	0.33
Natural Environment								
Watercourses/fisheries/ aquatic habitat		1	2	3		0.33	0.67	1.00
Vegetation and woodlots		2	2	2		0.67	0.67	0.67
Wildlife/terrestrial habitat		2	2	2		0.67	0.67	0.67
Wetlands		1	2	3		0.33	0.67	1.00
Species at Risk		2	2	2		0.67	0.67	0.67
Socio-cultural Environment								
Noise		3	2	1		1.00	0.67	0.33
Visual aesthetics		3	2	1		1.00	0.67	0.33
Residential property required		3	1	2		1.00	0.33	0.67
Recreational/property impacts		1	1	1		0.33	0.33	0.33
Other property required		1	2	2		0.33	0.67	0.67
Compatibility with existing/ future land uses/		1	1	1		0.33	0.33	0.33
plans		'	'	'		0.33	0.55	
Archaeological resources		2	2	2		0.67	0.67	0.67
Heritage resources		2	2	2		0.67	0.67	0.67
Economic Environment								
Future development potential		1	1	1		0.33	0.33	0.33
Accessibility to existing commercial areas		1	1	1		0.33	0.33	0.33
Engineering/Constructability								
Construction impacts		2	3	1		0.67	1.00	0.33
Utility/service conflicts		1	3	3		0.33	1.00	1.00
Construction Cost								
Estimated capital construction cost		2	3	3		0.67	1.00	1.00
Estimated utility relocation cost		1	3	3		0.33	1.00	1.00

	Weighted Ranking					
Factor/Sub-factor	144.1.1.4	Alternative S2-A	Alternative S2-B	Alternative S2-C	Alternative S2-D	
Transportation	Weight	32-A	32-D	32-0	32-D	
Transportation Accommodation of future vehicular travel						
demand	10	3.3	3.3	3.3	3.3	
Accommodation of pedestrian and cyclist	4	4.0	4.0	2.7	1.3	
movements						
Travel safety	10	10.0	6.7	6.7	3.3	
Emergency service	10	10.0	10.0	6.7	6.7	
Future transportation network connectivity and compatibility	4	1.3	1.3	1.3	1.3	
Commercial goods movement	4	2.7	2.7	1.3	1.3	
Recreational trails	4	1.3	1.3	1.3	1.3	
Natural Environment						
Watercourses/fisheries/ aquatic habitat	4		1.3	2.7	4.0	
Vegetation and woodlots	4		2.7	2.7	2.7	
Wildlife/terrestrial habitat	4		2.7	2.7	2.7	
Wetlands	10		3.3	6.7	10.0	
Species at Risk	10		6.7	6.7	6.7	
Socio-cultural Environment						
Noise	10		10.0	6.7	3.3	
Visual aesthetics	4		4.0	2.7	1.3	
Residential property required	10		10.0	3.3	6.7	
Recreational/property impacts	10		3.3	3.3	3.3	
Other property required	10		3.3	6.7	6.7	
Compatibility with existing/ future land uses/ plans	4		1.3	1.3	1.3	
Archaeological resources	1		0.7	0.7	0.7	
Heritage resources	1		0.7	0.7	0.7	
Economic Environment						
Future development potential	4		1.3	1.3	1.3	
Accessibility to existing commercial areas	4		1.3	1.3	1.3	
Engineering/Constructability						
Construction impacts	4		2.7	4.0	1.3	
Utility/service conflicts	4		1.3	4.0	4.0	
Construction Cost						
Estimated capital construction cost	1		0.7	1.0	1.0	
Estimated utility relocation cost	1		0.3	1.0	1.0	
	-	Screened Out	87.0	82.7	78.7	

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

Factor/Sub-factor	Alt. M3-A	Alt. M3-B	Comments:
Transportation			
Accommodation of future vehicular	Both in same area and attract same tra	affic away from downtown. Difference in	
travel demand	travel time n	•	
		ders to accommodate non0auto modes.	
cyclist movements		liscuourage some users	
Travel safety		1 intersection with Nichols Road on 4%	
Travel Salety			
	6% grades undesirable. Minimal	grade. Fewer intersections than Route	
	impacts on driveways	A	
Emergency service	Alternative A is slightly longer	Alternative B is slightly shorter	Both alternatives provide similar emergency service and improve access to rural properties
Future transportation network connectivity and compatibility	Both alternatives compatible with pla	nned infrastructure and development	
Commercial goods movement	Both part of desirable route outside	downtown allowing trucks to bypass	
	downtown. Both alleviate to	raffic congestion downtown	
Recreational trails		ossing of C102D for each alternative	
Natural Environment	The difference between dite. One of	booking of Crozz for odorranomanyo	
	0 0 -		
	Crosses 3 coldwater watercourses (two	Crosses 2 coldwater watercourses	Brook trout habitat
habitat	existing crossings by Nichols)		
Vegetation and woodlots	<u> </u>	orest stands of deciduous & coniferous	
	trees, cultural woodla	nd & cultural meadow	
Wildlife/terrestrial habitat	Affects breeding, foraging and migra	ation habiats for numberous species	
Wetlands	Affects open water & marginal mea	dow marsh associated with ponds &	
	watercours		
Species at Risk	May affect habitat for H		
Socio-cultural Environment	iviay aneci nabitat 101 F	logiloso, Ribbott stiake	
	A roomtore	1 roomter	
Noise	4 receptors	1 receptor	
	2 houses within 200 m of corridor		
1	1 house with partial view	No houses within 200 m of the corridor	
	1 house with unchanged full view		
Residential property required F	Residential: 10 parcels (85, 350, 190,	Decidential Congress (OF 070 9 045	
	570, 570, 405, 1790, 1640, 310 & 4000	Residential: 6 parcels (85, 370 & 315	
	m2)	m2, 1.3, 1.2 & 1.9 ha)	
Pecreational/property impacts	,		
Sectional property impacts	Seasonal residential: 1 parcel (110m2)		
Other preparty recuired	· · · · · · · · · · · · · · · · · · ·		
Other property required	0 110 10====	Commercial: 2 parcels (2.2 ha & 500	
	Commercial: 2 parcels (2.6 & 0.4 ha)	m2)	
	Vacant: 3 parcels (1.15, 0.7, 2.7 ha)	Vacant: 4 parcels (1.4, 0.7, 0.4, 1.0 ha)	
	· ·	vacant. 4 parceis (1.4, 0.7, 0.4, 1.0 na)	
Compatibility with existing/ future	Both outside urban area and part of a c	orridor providing an alternative route for	
land uses/ plans		and north in Bracebridge	
Archaeological resources		in an area of archaelogical potential	
		<u> </u>	
Heritage resources	ino difference between	een the alternatives	
Economic Environment			
Future development potential		ernative route for land developments on	
	the west side	of Bracebridge	
Accessibility to existing commercial		· ·	
areas	both alternatives attract the same amo	ount of traffic away from existing routes	
En elle contrar de la contrar			
Construction impacts	Intersections required with Nichols Rd	Intersections required with Nichols Rd	# of at grade intersections & grade
Construction impacts	•		
	(3) & South Monck Dr (1)	(1) & South Monck Dr (1)	seperations
			# of km of road construction along existing
	3.5 km of road construction	2.9 km of new road construction	road corridors and # of km of new road
			construction
	1 major creek crossing (12m +/- fill)	1 major creek crossing (21m +/- fill)	# of major creek crossings
	, , , , , , , , , , , , , , , , , , ,	, ,	Potential to provide a grade seperated
	N.	/A	crossing of the rail line
Utility/service conflicts	Need to relocate power lines along		# of pipelines and power transmission line
Ounty/Service Conflicts		No utilities identified	• • • • •
	existing roads		crossings
Construction Cost			
ı ·	71,600 m3 rock exc	73,800 m3 rock exc	
	16,900 m3 earth exc	12,500 m3 earth exc	
lg	95,500 m3 fill	*	Malan Milan I I
	1 large span creek culvert	98,300 m3 fill	Major quantities required
	4 small span creek culverts (2 at	1 large span creek culvert	
	·	5 small span creek culverts	
	ocations with existing culverts)		
Estimated utility relocation cost F	Relocation of power line along South Monck Dr. & Nichols Rd.		Description of requirements

Higher Impact = 3 Average Impact = 2 Lower Impact = 1

Factor/Sub-factor	Alt. M3-A	Rank	Alt. M3-B	Rank	Lower Impact = 1 Unit of Measure
Transportation					
Accommodation of future vehicular travel demand	Both in same area and attract same traffic away from downtown. Difference in travel time not significant	1	Both in same area and attract same traffic away from downtown. Difference in travel time not significant	1	Relative attractiveness/potential difference in travel time of alternative routes. (Less Attractive = 3, Average Attractiveness = 2, Highest Attractiveness= 1)
Accommodation of pedestrian and cyclist movements	Both will be designed with paved shoulders to accommodate non-auto modes. 6%-7% grades may discuourage some users	2	Both will be designed with paved shoulders to accommodate non-auto modes. 6%-7% grades may discuourage some users	2	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for non-auto modes (Poor Ability = 3, Average Ability= 2, Highest Ability = 1)
Travel safety	2 intersections with Nichols Road on 6% grades undesirable. Minimal impacts on driveways	2	1 intersection with Nichols Road on 4% grade. Fewer intersections than Route A	1	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	Alternative A is slightly longer	2	Alternative B is slightly shorter	1	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highest Ability= 1)
Future transportation network connectivity and compatibility	Both alternatives compatible with planned infrastructure and development	1	Both alternatives compatible with planned infrastructure and development	1	Relative improvement in connectivity and compatibility with other planned infrastructure. (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	Both part of desirable route outside downtown allowing trucks to bypass downtown. Both alleviate traffic congestion downtown	1	Both part of desirable route outside downtown allowing trucks to bypass downtown. Both alleviate traffic congestion downtown	1	Comparative ability of allowing routes outside of downtown area for commercial vehicles. (Lower = 3, Average = 2, Higherr = 1)
Recreational trails Natural Environment	No difference between alts. One crossing of C102D for each alternative		No difference between alts. One crossing of C102D for each alternative	2	Comparative negative effect on number of trails affected (Higher = 3, Average = 2, Lower = 1)
Watercourses/fisheries/ aquatic habitat	Crosses 3 coldwater watercourses (two existing crossings by Nichols)	2	Crosses 2 coldwater watercourses	1	Comparative negative impact on crossings (Higher = 3, Average = 2, Lower = 1)
Vegetation and woodlots	Natural vegetation affected includes forest stands of deciduous & coniferous trees, cultural woodland & cultural meadow	2	Natural vegetation affected includes forest stands of deciduous & coniferous trees, cultural woodland & cultural meadow	2	Comparative negative impact on vegetation and woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat	Affects breeding, foraging and migration habiats for numerous species		Affects breeding, foraging and migration habiats for numerous species	2	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands	Affects open water & marginal meadow marsh associated with ponds & watercourse crossings	2	Affects open water & marginal meadow marsh associated with ponds & watercourse crossings	2	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk	May affect habitat for Hognose, Ribbon snake		May affect habitat for Hognose, Ribbon snake	2	Comparative negative impact on species at risk (Higher = 3, Average = 2, Lower = 1)
Socio-cultural Environment					Comparative number of consitive recentors
Noise Visual aesthetics	4 receptors	2	1 receptor	1	Comparative number of sensitive receptors negatively impacted (Higher = 3, Average = 2, Lower = 1)
Visual destincties	2 houses within 200 m of corridor 1 house with partial view 1 house with unchanged full view	.,	No houses within 200 m of the corridor	1	Comparative number of properties with negative visual impacts (Higher = 3, Average = 2, Lower = 1)
Residential property required	Residential: 10 parcels (85, 350, 190, 570, 570, 405, 1790, 1640, 310 & 4000 m2)	3	Residential: 6 parcels (85, 370 & 315 m2, 1.3, 1.2 & 1.9 ha)	2	Comparative number of residential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Recreational/property impacts	Seasonal residential: 1 parcel (110m2)	2		1	Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required	Commercial: 2 parcels (2.6 & 0.4 ha) Vacant : 3 parcels (1.15, 0.7, 2.7 ha)	3	Commercial: 2 parcels (2.2 ha & 500 m2) Vacant: 4 parcels (1.4, 0.7, 0.4, 1.0 ha)	2	Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Compatibility with existing/ future land uses/ plans	Both outside urban area and part of a corridor providing an alternative route for land developments west and north in Bracebridge	1	Both outside urban area and part of a corridor providing an alternative route for land developments west and north in Bracebridge	1	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	Most of the proposed route lies within an area of archaelogical potential		Most of the proposed route lies within an area of archaelogical potential	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources	No difference between the alternatives	1	No difference between the alternatives	1	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Economic Environment - N/A Future development potential	Poth port of a corridor area in large		Poth part of a corridor president		
Future development potential	Both part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Both part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)

Accessibility to existing commercial areas	Both alternatives attract the same amount of traffic away from existing routes	1	Both alternatives attract the same amount of traffic away from existing routes	1	Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)
Engineering					
Construction impacts	Intersections required with Nichols Rd (3) & South Monck Dr (1), 3.5 km of road construction, 1 major creek crossing (12m +/- fill)	2	Intersections required with Nichols Rd (1) & South Monck Dr (1), 2.9 km of new road construction, 1 major creek crossing (21m +/- fill)	2	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	Need to relocate power lines along existing roads	2	No utilities identified	1	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost					
Estimated capital construction cost	71,600 m3 rock exc 16,900 m3 earth exc 95,500 m3 fill 1 large span creek culvert 4 small span creek culverts (2 at locations with existing culverts)	1	73,800 m3 rock exc 12,500 m3 earth exc 98,300 m3 fill 1 large span creek culvert 5 small span creek culverts	2	Comparative cost based on preliminary profile and cross-section. (Higher = 3, Average = 2, Lower = 1)
Estimated utility relocation cost	Relocation of power line along South Monck Dr. & Nichols Rd.	2	no relocations	1	Comparative cost based on previous experience and consultation with affected utilities. (Higher = 3, Average = 2, Lower = 1)

Segment M3

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and	
compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

	Common Scale			
Factor/Sub-factor	Alt. M3-A	Alt. M3-B	Alt. M3-A	Alt. M3-B
Transportation				
Accommodation of future vehicular travel	1	1	0.33	0.22
demand	I	I	0.33	0.33
Accommodation of pedestrian and cyclist	2	2	0.67	0.67
movements	2	2	0.07	
Travel safety	2	1	0.67	0.33
Emergency service	2	1	0.67	0.33
Future transportation network connectivity and compatibility	1	1	0.33	0.33
Commercial goods movement	1	1	0.33	0.33
Recreational trails	2	2	0.67	0.67
Natural Environment				
Watercourses/fisheries/ aquatic habitat	2	1	0.67	0.33
Vegetation and woodlots	2	2	0.67	0.67
Wildlife/terrestrial habitat	2	2	0.67	0.67
Wetlands	2	2	0.67	0.67
Species at Risk	2	2	0.67	0.67
Socio-cultural Environment				
Noise	2	1	0.67	0.33
Visual aesthetics	2	1	0.67	0.33
Residential property required	3	2	1.00	0.67
Recreational/property impacts	2	1	0.67	0.33
Other property required	3	2	1.00	0.67
Compatibility with existing/ future land uses/ plans	1	1	0.33	0.33
Archaeological resources	2	2	0.67	0.67
Heritage resources	1	1	0.33	0.33
Economic Environment				
Future development potential	1	1	0.33	0.33
Accessibility to existing commercial areas	1	1	0.33	0.33
Engineering/Constructability				
Construction impacts	2	2	0.67	0.67
Utility/service conflicts	2	1	0.67	0.33
Construction Cost				
Estimated capital construction cost	1	2	0.33	0.67
Estimated utility relocation cost	2	1	0.67	0.33

		Weighted Ranking			
Factor/Sub-factor	Weight	Alt. M3-A	Alt. M3-B		
Transportation					
Accommodation of future vehicular travel demand	10	3.3	3.3		
Accommodation of pedestrian and cyclist movements	4	2.7	2.7		
Travel safety	10	6.7	3.3		
Emergency service	10	6.7	3.3		
Future transportation network connectivity and	4	1.3	1.3		
Commercial goods movement	4	1.3	1.3		
Recreational trails	4	2.7	2.7		
Natural Environment					
Watercourses/fisheries/ aquatic habitat	4	2.7	1.3		
Vegetation and woodlots	4	2.7	2.7		
Wildlife/terrestrial habitat	4	2.7	2.7		
Wetlands	10	6.7	6.7		
Species at Risk	10	6.7	6.7		
Socio-cultural Environment					
Noise	10	6.7	3.3		
Visual aesthetics	4	2.7	1.3		
Residential property required	10	10.0	6.7		
Recreational/property impacts	10	6.7	3.3		
Other property required	10	10.0	6.7		
Compatibility with existing/ future land uses/ plans	4	1.3	1.3		
Archaeological resources	1	0.7	0.7		
Heritage resources	1	0.3	0.3		
Economic Environment					
Future development potential	4	1.3	1.3		
Accessibility to existing commercial areas	4	1.3	1.3		
Engineering/Constructability					
Construction impacts	4	2.7	2.7		
Utility/service conflicts	4	2.7	1.3		
Construction Cost					
Estimated capital construction cost	1	0.3	0.7		
Estimated utility relocation cost	1	0.7	0.3		
		93.3	69.3		

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

Factor/Sub-factor	Middle Alt. M2, M3-B	South Alt. S2-D, S3	Comments:
Transportation	A		
Accommodation of future vehicular travel demand	Along a portion of existing High Falls Road and Nichols Road with driveways (less overall capacity)	Closer to downtown for much of length and may be perceived as more attractive	
Accommodation of pedestrian and cyclist movements	One steeper grade. Paved shoulders to accommodate non-auto modes	Paved shoulders to accommodate non-auto modes	
Travel safety	More conflicts at driveways. Alignment and grades reasonable	Potential for grade-seperated rail crossing. Alignment and grades reasonable.	
Emergency service	Improves access to	o rural properites	
Future transportation network connectivity and compatibility	Arterial not desirable along High Falls Road	Provides oppportunity to construct grade seperation with CN Rail	
Commercial goods movement	Provides desirable rou		
Recreational trails	One crossing of TOP		
Natural Environment	5.1.5 5.1554 <u>.</u>		
Watercourses/fisheries/ aquatic habitat	Crosses 5 permanent coldwater watercourses with Brook Trout habitat	Crosses 5 permanent coldwater watercourses with Brook Trout habitat (further downstream than M2, M3-B)	
Vegetation and woodlots	Directly affects forest stands of deciduous a cultural meadow. Area east of Ma		
Wildlife/terrestrial habitat	Affects overall breeding and forgin	a habitat for numberous species	
Wetlands			
	Affects open water and marginal meadow ma	ings	
Species at Risk	Effects on potential habitat for SAR	May potentially affect habitat for Hognose, Ribbonsnake	
Socio-cultural Environment		COD. Noise mitiration and in the	
Noise	M2 - info needed. M3B - noise mitigation not required.	S2D - Noise mitigation required on western side, to a limited extent. S3 - info needed	
Visual aesthetics	35 houses within 200m	8 houses within 200m	
	14 houses have view of road	1 houses have view of road	
	9 houses have partial view of road 12 have unchanged full view	7 have unchanged full view	
Residential property required	28 parcels	6 parcels	
Recreational/property impacts	N/A	Seasonal: 1 parcel (0.93 ha)	
Other property required	Vacant land: 8 parcels	Vacant land: 10 parcels	
	Commercial: 2 parcels	Commercial: 1 parcels	
	Managed forest: 1 parcel	Managed forest: 1 parcel	
Compatibility with existing/ future land	Farmland: 1 parcel	Farmland: 1 parcel Outside, close to urban boundary. Provides	
uses/ plans	Outside urban boundary. Provides alternative route for future developments in west/north	alternative route for future developments in west/north	
Archaeological resources	Most of the proposed route lies within		
Heritage resources	No difference betwe		
Economic Environment			
Future development potential	Both part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge	Southerly route may be perceived to be closer to town and more supportive of development	
Accessibility to existing commercial areas	May attract a similar amount of traffic away from existing routes, depending on travellers' perceptions	Southerly route may attract more traffic away from existing routes if it is perceived to be closer to town	
Engineering/constructability			
Construction impacts			
	Intersections required with High Falls Road and Manitoba Street (at existing High Falls Road location) and Nichols Road 4.8 km of new road construction 2 major valley crossings (11 and 21m± fill) At-grade rail crossing (at existing High Falls Road location)	Intersections required with High Falls Road, Bonnell Road, Manitoba Street 4.5 km of new road construction 4 major valley crossings (8, 17, 18, and 21m±) Potential for grade-separated rail crossing	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	New crossing of pipleline north of High Falls Road. Relocation of power poles along High Falls Road-Nichols Road	Requires new crossing of pipleine north of High Falls Road	# of pipelines and power transmission line crossings
Construction Cost			
Estimated capital construction cost	115,800 m3 rock exc 23,900 m3 earth exc 128,900m3 fill New pipeline crossing, 2 largespan creek culverts, 8 smaller span creek culverts	103,400 m3 rock exc 27,200 m3 earth exc 114,600m3 fill New pipeline crossing, new largespan creek culvert, new medium span creek culvert	Major quantities required
	Requires new crossing of pipeline north of High Falls Road Relocation of power poles along High Falls Road-Nichols Road	Requires new crossing of pipeline north of High Falls Road	Description of requirements

Higher Impact = 3
Average Impact = 2
Lower Impact = 1
South Alt. S2-D, S3

Accommendation of illusian eventual contension of the contension o				Lower Impact = 1		
Accordance of plane we will be provided in the control of existing Figh Falls from the Chord of Control of Provided State of the Charles Falls of the Charle	Factor/Sub-factor	Middle Alt. M2, M3-B	Rank	South Alt. S2-D, S3	Rank	Unit of Measure
Assign a proprior or acting right Path Seat and excellence Hood on an arrivable for the control of any in will any to previously and control of the control						
Accommodation of potential and control services and		Road and Nichols Road with driveways	3		2	in travel time of alternative routes. (Less Attractive = 3, Average Attractiveness
More controlled and produce seasonable of produce seasonable or particular to require and partic			2		1	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for non-auto modes (Poor Ability = 3, Average Ability = 2, Highest
Transcotation network Conventioning and compressibility Conventioning and conventioning Conventioning and conventioning Conven	Travel safety		2		1	to design standards for safety (Higher = 3,
Arberal not decreated along High Falls Read of decreated along High Falls Read Provides deproducing to construct grado separation with CN Rell Provides deproducing to construct grado separation with CN Rell Provides decreated and the control of t		Improves access to rural properites	1	Improves access to rural properites	1	emergency services (Poor Ability = 3, Average Ability= 2, Highest
Provides desirable route outside downtown. Recreational trails One closeling of TOP D for each fluctuition One closeling on the closeling of TOP D for ea			3		1	compatibility with other planned infrastructure. (Less Improvement = 3, Average
Consequence of ToP D for each location 2 contract of ToP D for each location 2 contract of the Consequence of the February of Consequence of the February of Consequence of	Commercial goods movement		1	Provides desirable route outside downtown.	1	outside of downtown area for commercial vehicles.
Concess 5 permanent colesvates with Encole Trout hostists with countries with Encoles Trout hostists of the control of the property required		One crossing of TOP D for each location	2	One crossing of TOP D for each location	2	Comparative negative effect on number of trails affected
deciduous and conferences trees, cultural voiced and coultural measurements. Provided and countural measurements. Provided and countural measurements. Provided and countural measurements. Provided and countural measurements. Provided property required. Welfands Provided Provid	Watercourses/fisheries/ aquatic habitat	watercourses with Brook Trout habitat	2	watercourses with Brook Trout habitat	2	
Affects overall breeding and tograng harbest of numberous species Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow march associated with ponds and watercourse crossings Affects open water and marginal meadow mark associated with ponds and watercourse crossings Application of the ponds o	Vegetation and woodlots	deciduous and coniferous trees, cultural woodland and cultural meadow. Area east of Manitoba Street more open		and coniferous trees, cultural woodland and cultural meadow. Area east of	2	and woodlots
meadow marsh associated with ponds and watercourse crossings and watercourse crossing commercial and supported with ponds and watercourse crossings and watercourse crossing crossing commercial and watercourse crossing watercourse crossing commercial and with point and watercourse crossing watercourse crossing watercourse crossing commercial and with point watercourse crossing watercourse crossing counter or watercourse crossing commercial and with point watercourse crossing crossing counter or watercourse crossing crossing counter or watercourse cr	Wildlife/terrestrial habitat		2		2	wildlife/terrestrial
Effects on potential habitat for SAR 2 New potential year in the properties and the properties of the properties of the properties with properties with properties with property required 2 S2D - Noise mitigation required on western side, to a limited extent. S3 - box yeard to south near Maniloba St. Rail overpass a concern 4 houses have view of road 4 houses have view of road 5 houses within 200m 14 houses have view of road 12 have unchanged full view 1 Comparative number of sensitive receptors regulative with respect to the properties with respect to the property required 6.65 ha (20 parcels) 3 1.82 ha (6 parcels) 1 Comparative number of recipional property required 6.65 ha (20 parcels) 3 1.82 ha (6 parcels) 1 Comparative number of recipional properties with respect to the properties with respect to the properties with respect to the property required Comparative number of residential property required 6.65 ha (20 parcels) 3 1.82 ha (6 parcels) 1 Comparative number of residential property required Comparative number of residential properties with respect to existing buildings is of greater concern (Higher = 3, Average = 2, Lower = 1) Comparative number of residential properties with residential property required Comparative number of residential properties with residential properties with residential property required Commercial 2.25 ha (2 parcels) Vacant land: 3.95 ha (6 parcels) Vacant land: 4.95 ha (6 parcels) Vacant land: 4.95 ha (6 parcels) Vacant land: 4		meadow marsh associated with ponds		marsh associated with ponds and	2	
Noise M2 along High Falls Road M38 - noise mitigation not required. 2 2 S20 - Noise mitigation required on western side, to a limited extent. S3 - Source mitigation not required. Noise a simited extent. S3 - Source mitigation not required. 3 3 houses within 200m 14 houses have view of road 9 houses have partial view of road 9 houses have partial view of road 12 have unchanged full view 6.65 ha (20 parcels) 8 6.65 ha (20 parcels) None 1 2 Seasonal: 0.93 ha (1 parcel) Vacant land: 7.2 ha (10 parcels) Vacant land: 2.25 ha (2 parcels) Vacant land: 2.9 stip (1 parcel) Managed Forest: 340m2 (1 parcel) Comparative number of residential properties are impacted (where impacts to existing buildings is of greater concern) (Higher = 3. Average = 2, Lower = 1) Comparative number of residential properties with negative visual impacts overline buildings is of greater concern) (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3. Average = 2, Lower = 1) Comparative number of residential properties with negative visual impact		Effects on potential habitat for SAR	2		2	risk
M2 along High Fails Road M3B - noise mitigation not required. Visual aesthetics S houses within 200m 14 houses have view of road 12 have unchanged full view Residential property required Residential property required Recreational/property impacts None 1 Seasonal: 0.93 ha (1 parcel) Vacant land: 2.25 ha (2 parcels) Vacant land: 2.75 ha (2 parcels) Vacant land: 3.95 ha (8 parcels) Farmiand: 0.07 ha (1 parcel) Comparative number of properties with negative visual impacts (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recisidential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Relative accommodation = 2, Average = 3, Averag						
14 houses have view of road 9 houses have partial view of road 12 have unchanged full view of road 14 have unchanged full view of road 1		M3B - noise mitigation not required.	2	side, to a limited extent. S3 - back yards to south near Manitoba St.	3	negatively impacted
Recreational/property impacts None 1 Seasonal: 0.93 ha (1 parcel) 2 Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Low	Visual aesthetics	14 houses have view of road 9 houses have partial view of road	3	1 houses have view of road	1	negative visual impacts
Other property required Commercial: 2.25 ha (2 parcels) Vacant land: 3.95 ha (8 parcels) Vacant land: 3.95 ha (8 parcels) Farmland: 2m strip (1 parcel) Managed Forest: 3.95 ha (1 parcel) Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, average = 2, Lower = 1) Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodating = 3, Average Accommodation = 2, Most of the proposed route lies within an area of archaelogical potential Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge under the properties/area impacted (where impacts to existing buildings within an area of archaelogical potential Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge aval from existing routes if it is perceived to be closer to town and more supportive of development May attract a less traffic away from existing routes side for brace provides and beyond (Higher = 3, Average = 2, Lower = 1)		6.65 ha (20 parcels)	3	1.82 ha (6 parcels)	1	properties/area impacted (where impacts to existing buildings is of greater concern)
Vacant land: 3.95 ha (8 parcels) Farmland: 2.25 hg arcels) Farmland: 2	Recreational/property impacts	None	1	Seasonal: 0.93 ha (1 parcel)	2	properties/area impacted (where impacts to existing buildings is of greater concern)
Outside urban boundary. Provides alternative route for future developments in west/north Archaeological resources Most of the proposed route lies within an area of archaelogical potential Heritage resources No difference between the alternatives No difference between the alternative route for land developments on the north/west side of Bracebridge Accessibility to existing commercial areas May attract a less traffic away from existing routes, depending on travellers' perceptions Outside, close to urban boundary. Provides alternation boundary. Provides alternative route for future developments in west/north 1	Other property required	Vacant land: 3.95 ha (8 parcels) Farmland: 2m strip (1 parcel)	3	Farmland: 0.07 ha (1 parcel) Commercial: 80 m2 (1 parcel)	2	properties/area impacted (where impacts to existing buildings is of greater concern)
Most of the proposed route lies within an area of archaelogical potential Heritage resources No difference between the alternatives No difference between the alternatives I No difference between the alternatives No difference between the alternatives I No difference between the alternatives No difference between the alternatives I Depart of a corridor providing an alternative route for land developments on the north/west side of Bracebridge Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge. May be perceived to be closer to town and more supportive of development Accessibility to existing commercial areas May attract a less traffic away from existing routes, depending on travellers' perceptions May attract a less traffic away from existing routes if it is perceived to be closer to town Southerly route may attract more traffic away from existing routes if it is perceived to be closer to town (Higher = 3, Average = 2, Lower = 1) Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1) Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)		alternative route for future developments	1	alternative route for future developments in	1	future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating
No difference between the alternatives No difference between the alternatives 1 No difference between the alternatives 1 No difference between the alternatives 1 that would be negatively impacted (Higher = 3, Average = 2, Lower = 1) 2 Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge Accessibility to existing commercial areas Accessibility to existing commercial areas May attract a less traffic away from existing routes, depending on travellers' perceptions No difference between the alternatives 1 Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge. May be perceived to be closer to town and more supportive of development 1 Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1) 2 Southerly route may attract more traffic away from existing routes if it is perceived to be closer to town 3 Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)	-				2	Relative area of high archaeological potential affected. (More Area = 3, Average
Future development potential Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge Accessibility to existing commercial areas Accessibility to existing routes, depending on travellers' perceptions Part of a corridor providing an alternative route for land developments on the north/west side of Bracebridge. May be perceived to be closer to town and more supportive of development Southerly route may attract more traffic away from existing routes, depending on travellers' perceptions Comparative effect on accessibility to existing commercial areas in Bracebridge existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)	Heritage resources	No difference between the alternatives	1	No difference between the alternatives	1	that would be negatively impacted
areas May attract a less traffic away from existing routes, depending on travellers' perceptions Southerly route may attract more traffic away from existing routes if it is perceived to be closer to town existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)		route for land developments on the north/west side of Bracebridge	2	route for land developments on the north/west side of Bracebridge. May be perceived to be closer to town and more	1	planned future development areas (Higher = 3, Average = 2, Lower = 1)
		existing routes, depending on travellers'	2	away from existing routes if it is perceived	1	existing commercial areas in Bracebridge and beyond
	Engineering/Constructability					(g 0, / 11010g0 - 2, L0w01 - 1)

Construction impacts	Intersections required with High Falls Road and Manitoba Street (at existing High Falls Road location) and Nichols Road 4.8 km of new road construction 2 major valley crossings (11 and 21m± fill) At-grade rail crossing (at existing High Falls Road location)	2	Intersections required with High Falls Road, Bonnell Road, Manitoba Street 4.5 km of new road construction 4 major valley crossings (8, 17, 18, and 21m±) Potential for grade-separated rail crossing	2	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
Utility/service conflicts	New crossing of pipeline north of High Falls Road. Relocation of power poles along High Falls Road-Nichols Road	3	Requires new crossing of pipeline north of High Falls Road	2	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost					
Estimated capital construction cost	115,800 m3 rock exc 23,900 m3 earth exc 128,900m3 fill New pipeline crossing, 2 large span creek culverts, 8 smaller span creek culverts	3	103,400 m3 rock exc 27,200 m3 earth exc 114,600m3 fill New pipeline crossing, new large span creek culvert, new medium span creek culvert	2	Comparative cost based on preliminary profile and cross-section. (Higher = 3, Average = 2, Lower = 1)
Estimated utility relocation cost	Requires new crossing of pipeline north of High Falls Road Relocation of power poles along High Falls Road-Nichols Road	3	Requires new crossing of pipeline north of High Falls Road	2	Comparative cost based on previous experience and consultation with affected utilities. (Higher = 3, Average = 2, Lower = 1)

Segment Middle-South

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity	
and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

			Common Scale		
Factor/Sub-factor	Middle Alt. M2,	South Alt. S2-	Middle Alt. M2,	South Alt. S2-	
	М3-В	D, S3	М3-В	D, S3	
Transportation					
Accommodation of future vehicular travel	3	2	1.00	0.67	
demand	3	2	1.00	0.67	
Accommodation of pedestrian and cyclist	2	1	0.67	0.33	
movements	_	'			
Travel safety	2	1	0.67	0.33	
Emergency service	1	1	0.33	0.33	
Future transportation network connectivity and compatibility	3	1	1.00	0.33	
Commercial goods movement	1	1	0.33	0.33	
Recreational trails	2	2	0.67	0.67	
Natural Environment					
Watercourses/fisheries/ aquatic habitat	2	2	0.67	0.67	
Vegetation and woodlots	2	2	0.67	0.67	
Wildlife/terrestrial habitat	2	2	0.67	0.67	
Wetlands	2	2	0.67	0.67	
Species at Risk	2	2	0.67	0.67	
Socio-cultural Environment					
Noise	2	3	0.67	1.00	
Visual aesthetics	3	1	1.00	0.33	
Residential property required	3	1	1.00	0.33	
Recreational/property impacts	1	2	0.33	0.67	
Other property required	3	2	1.00	0.67	
Compatibility with existing/ future land uses/ plans	1	1	0.33	0.33	
Archaeological resources	2	2	0.67	0.67	
Heritage resources	1	1	0.33	0.33	
Economic Environment					
Future development potential	2	1	0.67	0.33	
Accessibility to existing commercial areas	2	1	0.67	0.33	
Engineering/Constructability					
Construction impacts	2	2	0.67	0.67	
Utility/service conflicts	3	2	1.00	0.67	
Construction Cost					
Estimated capital construction cost	3	2	1.00	0.67	
Estimated utility relocation cost	3	2	1.00	0.67	

	Weighted I	Ranking	
Factor/Sub-factor	Weight	Middle Alt. M2, M3-B	South Alt. S2-D, S3
Transportation	weight	IAI2-D	32-D, 33
Accommodation of future vehicular travel demand	10	10.0	6.7
Accommodation of reduction and cyclist movements	4	10.0 2.7	_
Travel safety			1.3
Emergency service	10	6.7	3.3
Future transportation network connectivity and	10	3.3	3.3
Commercial goods movement	4	4.0	1.3
Recreational trails	4	1.3	1.3
	4	2.7	2.7
Natural Environment			
Watercourses/fisheries/ aquatic habitat	4	2.7	2.7
Vegetation and woodlots	4	2.7	2.7
Wildlife/terrestrial habitat	4	2.7	2.7
Wetlands	10	6.7	6.7
Species at Risk	10	6.7	6.7
Socio-cultural Environment			
Noise	10	6.7	10.0
Visual aesthetics	4	4.0	1.3
Residential property required	10	10.0	3.3
Recreational/property impacts	10	3.3	6.7
Other property required	10	10.0	6.7
Compatibility with existing/ future land uses/ plans	4	1.3	1.3
Archaeological resources	1	0.7	0.7
Heritage resources	1	0.3	0.3
Economic Environment			
Future development potential	4	2.7	1.3
Accessibility to existing commercial areas	4	2.7	1.3
Engineering/Constructability			
Construction impacts	4	2.7	2.7
Utility/service conflicts	4	4.0	2.7
Construction Cost			
Estimated capital construction cost	1	1.0	0.7
Estimated utility relocation cost	1	1.0	0.7
	•	102.3	81.0

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

Factor/Sub-factor	Alternative MTO-1	Alternative MTO-2	Comments:
Transportation			
Accommodation of future vehicular travel demand	No difference between alternatives. Are traffic from downtown. Difference		
Accommodation of pedestrian and	Similar grades. Paved shoulders will be		
cyclist movements	across Hi		
Travel safety	Tighter radius, steeper grades, one intersection on curve	Flatter alginment, one intersection to High Falls Rd less skew on bridge	
Emergency service	All alternatives connect to south and n similar emergency	•	
Transportation network connectivity and compatibility	Similar network connectivity. Traffic in access Hwy 11 using new bridge over compatible with the MTC	must use Cedar Lane interchange to er Muskoka River. All alternatives are	
Commercial goods movement	Part of a route outside downtown are bypass downtown. Help allevia	te traffic congestion downtown	
Recreational trails	Alternatives provide culvert underpass of existi		
Natural Environment			
Watercourses/fisheries/ aquatic habitat	Both require new bridge over Muskoka val		
Vegetation and woodlots	Similar habitat	area affected	
Wildlife/terrestrial habitat	Similar habitat		
Wetlands	Similar wetland area in vicinty of		
Species at Risk	Similar pote	ntial effects	
Socio-cultural Environment			
Noise	1, increased by 5 - 10 dB(A)	1, increased by 10 - 15 dB(A)	
Visual aesthetics	Road in front of home in 2+m cut	Road behind home, behind out- buildings, in 1m+/- cut	
Residential property required	Residential: 3 parcels (0.94, 3.0 ha and 73 m3)	Residential: 3 parcels (1.69, 2.95 ha and 73 m3)	
Recreational/property impacts	N.	/A	
Other property required	Vacant/crown land 2 parcels (1.13, 0.44 ha). No impact on BRMC, Includes underpass for trails	Vacant/crown land 2 parcels (1.14, 0.55 ha). No impact on BRMC. Includes an underpass for trails.	
Compatibility with existing/ future land uses/ plans	Outside urban area and part of a corr future land development. Do not provide as anticipated	idor providing an alternative route for e new interchange with full movements	
Archaeological resources	Area of high archaelogical potential incl	lude ROW within 300m of a permanent	
Heritage resources	No difference bet	ween alternatives	
Economic Environment			
Future development potential	They are part of a corridor providing an in west Br	alternative route for future development acebridge	
Accessibility to existing commercial areas	They will attract the same amount of tra improving access for those wanting to and in urban	affic away from existing routes, thereby visit the commercial areas downtown	
Engineering			
Construction impacts	2 intersections required with High Falls Road	1 intersection with High Falls Road	# of at grade intersections & grade seperations
Construction impacts	935m of road construction. Staging and traffic management required for section of High Falls Road impacted by alignment	885 m of road construction	# of km of road construction along existing road corridors and # of km of new road construction
Construction impacts	1 major creek crossing (19m +/- fill) and 5m culvert underpass for access		# of major creek crossings
Construction impacts	N/A		Potential to provide a grade seperated crossing of the rail line
Utility/service conflicts	No pipeling crossings in this section. Some power pole relocations may be required		# of pipelines and power transmission line crossings
Construction Cost			
Estimated capital construction cost	Skewed bridge over Hwy 11 will be slightly more costly than perpendicular alignment. Proximity to High Falls Road adds to costs. Minor difference in road length.	Somewhat less construction cost risk due to bridge and road alignment	Major quantities required
Estimated utility relocation cost	Not a significa	nt known cost	Description of requirements
· · · · · · · · · · · · · · · · · · ·		•	

Ranking for Sensitivity Analysis:

Preferred alternative for that factor

Preferred alternative for that factor

Average Impact = 2

Lower Impact = 1

Factor/Sub-factor

Alternative MTO-1

Rank

Alternative MTO-2

F110k f1	Altamatica MTO 4	Dank	Lower Impact = 1	Dank	Heate of Managemen
Factor/Sub-factor Transportation	Alternative MTO-1	Rank	Alternative MTO-2	Rank	Unit of Measure
Accommodation of future vehicular					
travel demand	No difference between alternatives. Are within same vicinity, will attract same traffic from downtown. Difference in travel time is not significant.	1	No difference between alternatives. Are within same vicinity, will attract same traffic from downtown. Difference in travel time is not significant.	1	Relative attractiveness/potential difference in travel time of alternative routes. (Less Attractive = 3, Average Attractiveness = 2, Highest Attractiveness= 1)
Accommodation of pedestrian and cyclist movements	Similar grades. Paved shoulders will be provided. Connect to High Falls Road across Highway 11	1	Similar grades. Paved shoulders will be provided. Connect to High Falls Road across Highway 11	1	Comparative ability to accomodate paved shoulders, sidewalks and/or pathways for nor auto modes (Poor Ability = 3, Average Ability= 2, Highest Ability = 1)
Travel safety	Tighter radius, steeper grades, one intersection on curve	3	Flatter alignment, one intersection to High Falls Rd, less skew on bridge	1	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	All alternatives connect to south and middle route alternatives. Both provide similar emergency response service.	1	All alternatives connect to south and middle route alternatives. Both provide similar emergency response service.	1	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highest Ability= 1)
Transportation network connectivity and compatibility	Similar network connectivity. Traffic must use Cedar Lane interchange to access Hwy 11 using new bridge over Muskoka River. All alternatives are compatible with the MTO Hwy 11 improvements.	1	Similar network connectivity. Traffic must use Cedar Lane interchange to access Hwy 11 using new bridge over Muskoka River. All alternatives are compatible with the MTO Hwy 11 improvements.	1	Relative improvement in connectivity and compatibility with other planned infrastructure (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	Part of a route outside downtown area of Bracebridge, allowing trucks to bypass downtown. Help alleviate traffic congestion downtown	1	Part of a route outside downtown area of Bracebridge, allowing trucks to bypass downtown. Help alleviate traffic congestion downtown	1	Comparative ability of allowing routes outside of downtown area for commercial vehicles. (Lower = 3, Average = 2, Higherr = 1)
Recreational trails Natural Environment	Alternatives provide culvert underpass of arterial just west of Hwy 11 in vicinity of existing trails	1	Alternatives provide culvert underpass of arterial just west of Hwy 11 in vicinity of existing trails	1	Comparative negative effect on number of trails affected (Higher = 3, Average = 2, Lower = 1)
Watercourses/fisheries/ aquatic habitat	Both require new bridge over Muskoka river and high level crossing of creek valley	2	Both require new bridge over Muskoka river and high level crossing of creek valley	2	Comparative negative impact on crossings (Higher = 3, Average = 2, Lower = 1)
Vegetation and woodlots	Similar habitat area affected	2	Similar habitat area affected	2	Comparative negative impact on vegetation and woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat	Similar habitat area affected	2	Similar habitat area affected	2	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands	Similar wetland area in vicinty of major creek crossing affected	2	Similar wetland area in vicinty of major creek crossing affected	2	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk	Similar potential effects	2	Similar potential effects	2	Comparative negative impact on species at risk (Higher = 3, Average = 2, Lower = 1)
Socio-cultural Environment Noise					Comparative number of consitive recentors
Noise	1, increased by 5 - 10 dB(A)	2	1, increased by 10 - 15 dB(A)	3	Comparative number of sensitive receptors negatively impacted
Visual aesthetics	Road in front of home in 2+m cut	1	Road behind home, behind out-buildings, in 1m+/- cut	3	(Higher = 3, Average = 2, Lower = 1) Comparative number of properties with negative visual impacts (Higher = 3, Average = 2, Lower = 1)
Residential property required	Residential: 3 parcels (0.94, 3.0 ha and 73 m3)	2	Residential: 3 parcels (1.69, 2.95 ha and 73 m3)	3	Comparative number of residential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Recreational/property impacts	N/A	1	N/A	1	Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required	Vacant/crown land 2 parcels (1.13, 0.44 ha). Includes underpass for trails	2	Vacant/crown land 2 parcels (1.14, 0.55 ha). Includes an underpass for trails.	2	Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
	Outside urban area and part of a corridor providing an alternative route for future land development. Does not provide new interchange with full movements as anticipated in official plans	2	Outside urban area and part of a corridor providing an alternative route for future land development. Does not provide new interchange with full movements as anticipated in official plans	2	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	Area of high archaelogical potential include ROW within 300m of a permanent watercourse, which involves most of the study area	2	Area of high archaelogical potential include ROW within 300m of a permanent watercourse, which involves most of the study area	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources Economic Environment - N/A	No difference between alternatives	1	No difference between alternatives	1	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Future development potential	They are part of a corridor providing an alternative route for future development in west Bracebridge	1	They are part of a corridor providing an alternative route for future development in west Bracebridge	1	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)
areas	They will attract the same amount of traffic away from existing routes, thereby improving access for those wanting to visit the commercial areas downtown and in urban Bracebridge	1	They will attract the same amount of traffic away from existing routes, thereby improving access for those wanting to visit the commercial areas downtown and in urban Bracebridge	1	Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1)
Engineering Construction impacts					Comments
	2 intersections required with High Falls Road, 935m of road construction. Staging and traffic management required for section of High Falls Road impacted by alignment, 1 major creek crossing (19m +/- fill) and 5m culvert underpass for access		1 intersection with High Falls Road, 885 m of road construction, 1 major creek crossing (19m +/- fill) and 5m culvert underpass for access	2	Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1)
	No pipeline crossings in this section. Some power pole relocations may be required	1	No pipeline crossings in this section. Some power pole relocations may be required	1	Comparative number # of pipeline crossings required and other utilities and services required. (Higher = 3, Average = 2, Lower = 1)
Construction Cost Estimated capital construction cost	Skewed bridge over Hwy 11 will be slightly more costly than perpendicular alignment. Proximity to High Falls Road adds to costs. Minor difference in road length.	3	Somewhat less construction cost risk due to bridge and road alignment	2	Comparative cost based on preliminary profile and cross-section. (Higher = 3, Average = 2, Lower = 1)
Estimated utility relocation cost	Not a significant known cost	1	Not a significant known cost	1	

Segment MTO

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular	
travel demand	high
Accommodation of pedestrian and	
cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network	
connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial	
areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

				on Scale
Factor/Sub-factor	Alternative MTO-	Alternative MTO-	Alternative MTO-	Alternative MTO-
	1	2	1	2
Transportation				
Accommodation of future vehicular	1	1	0.33	0.33
travel demand	1	1	0.33	0.33
Accommodation of pedestrian and	1	1	0.22	0.22
cyclist movements	'	ı	0.33	0.33
Travel safety	3	1	1.00	0.33
Emergency service	1	1	0.33	0.33
Future transportation network	1	1	0.33	0.33
connectivity and compatibility	'	ı	0.33	0.33
Commercial goods movement	1	1	0.33	0.33
Recreational trails	1	1	0.33	0.33
Natural Environment				
Watercourses/fisheries/ aquatic habitat	2	2	0.67	0.67
	2	2	0.67	0.67
Vegetation and woodlots	2	2	0.67	0.67
Wildlife/terrestrial habitat	2	2	0.67	0.67
Wetlands	2	2	0.67	0.67
Species at Risk	2	2	0.67	0.67
Socio-cultural Environment				
Noise	2	3	0.67	1.00
Visual aesthetics	1	3	0.33	1.00
Residential property required	2	3	0.67	1.00
Recreational/property impacts	1	1	0.33	0.33
Other property required	2	2	0.67	0.67
Compatibility with existing/ future land	2	2	0.67	0.67
uses/ plans	2	Z	0.67	0.67
Archaeological resources	2	2	0.67	0.67
Heritage resources	1	1	0.33	0.33
Economic Environment				
Future development potential	1	1	0.33	0.33
Accessibility to existing commercial	1	1	0.33	0.33
areas	'	ı	0.55	0.55
Engineering/Constructability				
Construction impacts	3	2	1.00	0.67
Utility/service conflicts	1	1	0.33	0.33
Construction Cost				
Estimated capital construction cost	3	2	1.00	0.67
Estimated utility relocation cost	1	1	0.33	0.33

		Weighted Ranking				
Factor/Sub-factor	Weight	Alternative MTO-1	Alternative MTO-2			
Transportation						
Accommodation of future vehicular travel demand	10	3.3	3.3			
Accommodation of pedestrian and cyclist movements	4	1.3	1.3			
Travel safety	10	10.0	3.3			
Emergency service	10	3.3	3.3			
Future transportation network connectivity and	4	1.3	1.3			
Commercial goods movement	4	1.3	1.3			
Recreational trails	4	1.3	1.3			
Natural Environment						
Watercourses/fisheries/ aquatic habitat	4	2.7	2.7			
Vegetation and woodlots	4	2.7	2.7			
Wildlife/terrestrial habitat	4	2.7	2.7			
Wetlands	10	6.7	6.7			
Species at Risk	10	6.7	6.7			
Socio-cultural Environment						
Noise	10	6.7	10.0			
Visual aesthetics	4	1.3	4.0			
Residential property required	10	6.7	10.0			
Recreational/property impacts	10	3.3	3.3			
Other property required	10	6.7	6.7			
Compatibility with existing/ future land uses/ plans	4	2.7	2.7			
Archaeological resources	1	0.7	0.7			
Heritage resources	1	0.3	0.3			
Economic Environment						
Future development potential	4	1.3	1.3			
Accessibility to existing commercial areas	4	1.3	1.3			
Engineering						
Construction impacts	4	4.0	2.7			
Utility/service conflicts	4	1.3	1.3			
Construction Cost						
Estimated capital construction cost	1	1.0	0.7			
Estimated utility relocation cost	1	0.3	0.3			
		81.0	82.0			

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

Factor/Sub-factor	Do Nothing	Preferred North Alternative	Preferred Middle Alternative	Preferred South Alternative	MTO Alternative with connection to
Transportation	December 211	Continue for the last	Mantanagh at the state of the	Daniel interest of the second	preferred
Accommodation of future vehicular travel demand	along High Falls Road will continue to attract more traffic		interchange while keeping all Cedar Lane/117 ramps open.	Partial interchange closest to downtown. New SB ramps only. NB drivers must use Cedar Lane (SB ramps closed at this location) and cross river on new bridge to access BNTC. High Falls Road connects via Service Road to interchange.	Ramp terminal intersections at Cedar Lane interchange will have a reduced level of service in the future.
Accommodation of pedestrian and cyclist movements Travel safety	shoulders, in general High Falls Road has variable design speed. There are numerous conflicts through	Alternatives will be designed with paved sl may attract more usage. Existing driveways along existing roads. Minimum radii used to reduce property impacts. Intersections on curve with 6% superelevation on outside so sight distance will be good.		on reasonable grades. Horizontal and v	
Emergency service		Provides new east-west arterial in Falkenburg Road area. May improve rural response times. Out of way travel to reach HFR.	Less out of way travel for HFR traveller	o northerly development in Bracebridge. 's.	May improve rural response times.
Future transportation network connectivity and compatibility	pressure along High Falls Road, especially with increased development north of downtown.	Provides new and improved north-south (S. Monck Drive) and east-west (Falkenburg Road-Naismith to Hwy 11). Somewhat removed from Town. Flyover at High Falls Road to Service Rd would improve connectivity and reduce out of way travel for HFR travellers.	south (portion of S. Monck Drive) and east-west road to Hwy 11 just north of planned subdivisions. Full interchange with Highway 11. Connection to HFR and to East Service Road. Grade separation of rail.		Consistent with approved TESR for Highway 11. Provides new and improved north-south (portion of S. Monck Drive) and east-west road to Hwy 11 just north of planned subdivisions. Provides new bridge over Muskoka River, grade separation of rail.
Commercial goods movement		North alternative may be less attractive to vehicles from the south due to backtracking.	route outside the downtown area allowing trucks to bypass the downtown if desired. Middle alternative may be more attractive to vehicles from the south. Backtracking still required.	may be more attractive to vehicles from the south. Backtracking still required.	Alternatives are part of a desirable route outside the downtown area allowing trucks to bypass the downtown if desired. MTO alternative may be slightly less attractive to vehicles from the north.
Recreational trails	No new road crossings for trails or trail relocations required.	More impact on TOP and OFSC trails along Naismith Road and S. Monck Drive and crossings.	Snort length of impact on TOP trails aid	ong S. Monck Dr and two trail crossings.	
Natural Environment Watercourses/fisheries/ aquatic habitat	additional traffic with more potential conflicts along existing routes.	Alternatives have a similar number of watercourse crossings. North route generally further upstream than other routes.	Alternatives have a similar number of watercourse crossings, further downstream than north route.	Alternatives have a similar number of watercourse crossings, further downstream than north route.	Potential impacts due to new bridge over Muskoka River; plus similar number of watercourse crossings, further downstream than north route.
Vegetation and woodlots	No additional impacts on natural vegetation/ woodlots.		close to Red Oak research plots.	Route is through Managed forest west of Manitoba Street.	
Wetlands	habitat.	More potential for wildlife impacts in natural areas remote from town. Impacts more wetland area along	activity near the Muskoka River.	Winter study revealed little deer activity near the Muskoka River.	Winter study revealed little deer activity near the Muskoka River.
Wetlands Species at Risk		Impacts more wettand area along Naismith, Falkenburg and S. Monck Roads. May potentially affect habitat for	Partridge Lane.	Impacts wetlands adjacent to creek valleys and on S. Monck Road north of Partridge Lane. May potentially affect habitat for	Impacts wetlands adjacent to creek valleys and on S. Monck Road north of Partridge Lane. May potentially affect habitat for
Socio-cultural Environment	habitat for SAR (2012).	Hognose, Ribbon snake (Provincially Threatened species).		Hognose, Ribbon snake (Provincially Threatened species).	Hognose, Ribbon snake (Provincially Threatened species).
Noise	Noise will increase along existing developed road corridors but not due to road widening (no mitigation warranted).	Affects more homes along existing roads.		More potential impacts along Muskoka River with added bridge.	More potential impacts along Muskoka River with added bridge.
Visual aesthetics	Views will not change.	view of the new arterial.		Views from Muskoka homes with added bridge.	Views from Muskoka homes with added bridge. Impact along High Falls Road in
Residential property required	No impacts beyond MTO Recommended Plan.	Strips of ROW required at existing homes where route is along existing road. 42 parcels will be affected totaling 4.063 ha.	and not along existing roads except for 0.35 km along Bonnell Road and 2.25 km along South Monck Drive. Residential: 20 parcels will be	not along existing roads except for km along Bonnell Road and 2.25 long South Monck Drive. dential: 20 parcels will be and not along existing roads except for 0.35 km along Bonnell Road and 2.25 km along South Monck Drive. dential: 22 parcels will be	
Recreational/property impacts Other property required		Impact on several BRMC trails near entrance. Seasonal Residential: 6 Vacant Land: 8 parcels/14.41 ha. Commercial: 8 parcels/0.78 ha. Managed forest: 3 parcels/0.21 ha. Farmland: 3 parcels/0.52 ha. Farm Residential: 1 parcel/0.07 ha. Religious: 1 parcel/0.07 ha. Other: 1 parcel/0.51 ha.	parcel/3.85 ha. Farmland : 4 parcels/0.59 ha. Farm Residential: 1	Impact on one BRMC trail at south end. Vacant Land (include crown land): 17 parcels/15.3 ha. Commercial: 7 parcels/0.78 ha. Managed forest: 1 parcel/3.85 ha. Farmland: 4 parcels/0.59 ha. Farm Residential: 1 parcel/0.07 ha.	Minimal impact on BRMC. Seasonal Residential: 1 parcel is affected Vacant Land (include crown land): 9.65 ha. Commercial: 0.78 ha. Managed forest: 3.85 ha. Farmland: 0.59 ha. Farmland Residential: 0.07 ha.
Compatibility with existing/ future land uses/ plans		Supports development plans. All routes have impacts along S. Monck Drive.	Drive.	Supports development plans. New bridge undesirable to existing users All routes have impacts along S. Monck Drive.	Configuration may not support full development plans. New bridge undesirable to existing users. All routes have impacts along S. Monck Drive.
Archaeological resources	No impacts beyond MTO Recommended Plan.	No differences between the alternatives. the Study Area	Stage 2 Archeological assessment wil	l be required for selected route in undist	nt watercourse, which involves most of
Heritage resources Economic Environment	No impacts beyond MTO Recommended Plan.		Church and graveyard	at Manitoba Street.	
Future development potential Accessibility to existing	Does not provide access to new development Does not improve access to	Less desirable as an alternative route for developments west of Bracebridge . May attract less traffic away from existing	· ·	Will provide an alternative route to planned development. May attract more traffic from existing	Development limited by interchange capacity. May attract more traffic from existing
commercial areas		routes, thereby providing less improvement to traffic level of service in downtown and urban Bracebridge.	routes resulting in better LOS in	routes resulting in better LOS in downtown and urban Bracebridge.	routes resulting in better LOS in downtown and urban Bracebridge.
Engineering Construction impacts	separation possible		Partridge Lane, MR 118. 9.8 km generally new road (S. Monck will require reconstruction). West Service Road required. Rail grade separation possible	Rail grade separation possible	Intersections: High Falls Road (2), Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.5 km generally new road. New Muskoka bridge and connection to Cedar Lane. Rail grade separation possible
Utility/service conflicts	No impacts beyond MTO Recommended Plan.	All routes include a crossing of the pipeline. North route has power lines along Naismith, Falkenburg, S. Monck.	pipeline. Middle and South routes have power lines along portion of S.	All routes include a crossing of the pipeline. Middle and South routes have power lines along portion of S. Monck	All routes include a crossing of the pipeline. MTO route has power lines along portion of HFR and S. Monck
Construction Cost Estimated capital construction cost		164,300 m3 fill Plus East Service Road; 2 new large span creek culverts; 6 new medium span creek culverts.	284,000 m3 rock exc. 54,400 m3 earth exc. 449,400 m3 fill Plus East Service Road; Grade separation of Rail; 3 new large span creek culverts; 6 new medium span creek culverts.	New road construction – 9.4 km 212,300 m3 rock exc. 48,900 m3 earth exc. 254,400 m3 fill Plus East Service Road; Grade separation of Rail; new Muskoka River Bridge; 3 new large span creek culverts; 6 new medium span creek culverts.	span creek culverts; 6 new medium span creek culverts.
Estimated utility relocation cost	No costs beyond MTO Recommended Plan.	New pipeline crossing. Power lines along existing roads.	New pipeline crossing. Fewer power lines along existing roads.	New pipeline crossing. Fewer power lines along existing roads.	New pipeline crossing. Fewer power lines along existing roads.

Preferred alternative for that factor

Ranking for Sensitivity Analysis:	•		Preferred alternative for that factor		Higher Impact = 3		Average Impact = 2		Lower Impact = 1		
Factor/Sub-factor	Do Nothing	Rank	Preferred North Alternative	Rank	Preferred Middle Alternative	Rank	Preferred South Alternative	Rank	MTO Alternative with connection to	Rank	Unit of Measure
ransportation Accommodation of future	Does not address		Further away from downtown, longer		Most southerly location for full interchange		Partial interchange closest to downtown.		Ramp terminal intersections at Cedar		
vehicular travel demand		3	travel time, less attractive	2	while keeping all Cedar Lane/117 ramps open.	1	New SB ramps only. NB drivers must use Cedar Lane (SB ramps closed at this location) and cross river on new bridge to access BNTC. High Falls Road connects via Service Road to interchange.		Lane interchange will have a reduced level of service in the future.	2	Relative attractiveness/potential difference travel time of alternative routes. (Less Attractive = 3, Average Attractivenes 2, Highest Attractiveness= 1)
Accommodation of pedestrian	Does not accommodate - no paved		Will be designed to accommodate		Will be designed to accommodate		Will be designed to accommodate		Will be designed to accommodate		Comparative ability to accomodate pave
and cyclist movements	shoulders in general	3		1		1		1		1	shoulders, sidewalks and/or pathways for r auto modes (Poor Ability = 3, Average Ability= 2, Highe Ability = 1)
Fravel safety	Conflicts through downtown and variable design speeds	3	Existing driveways along existing roads.	2	Few driveways. Intersections on reasonable grades.	1	Few driveways. Intersections on reasonable grades.	1	Few driveways. Intersections on reasonable grades.	1	Comparative negative impact on adherence to design standards for safety (Higher = 3, Average = 2, Lower = 1)
Emergency service	Congestion will increase, no improvement for emergency responders.	3	May improve rural response times. Out of way travel to reach HFR.	2	May improve rural response times. Less out of way travel for HFR travellers.	1	May improve rural response times. Less out of way travel for HFR travellers.	1	May improve rural response times. Less out of way travel for HFR travellers.	1	Comparative ability to improve routing for emergency services (Poor Ability = 3, Average Ability= 2, Highe Ability= 1)
Future transportation network connectivity and compatibility	Continued pressure on High Falls Road.	3	Provides new and improved north-south (S. Monck Drive) and east-west (Falkenburg Road-Naismith to Hwy 11). Somewhat removed from Town. Flyover at High Falls Road to Service Rd would improve connectivity and reduce out of way travel for HFR travellers.	2	Provides new and improved north-south (portion of S. Monck Drive) and east-west road to Hwy 11 just north of planned subdivisions. Full interchange with Highway 11. Connection to HFR and to East Service Road. Grade separation of rail.	1	Provides new and improved north-south (portion of S. Monck Drive) and east-west road to Hwy 11 just north of planned subdivisions. Split interchange with Ceda Lane due to proximity. Provides new bridge over Muskoka River, grade separation of rail.		Consistent with approved TESR for Highway 11. No new interchange on Highway 11. Provides new and improved north-south (portion of S. Monck Drive) and east-west road to Hwy 11 just north of planned subdivisions. Provides new bridge over Muskoka River, grade separation of rail.	1	Relative improvement in connectivity and compatibility with other planned infrastructu (Less Improvement = 3, Average Improvement = 2, More Improvement = 1)
Commercial goods movement	No new route for commercial goods.	3	Allows trucks to bypass the downtown if desired. Good connection for vehicles from the north. Less attractive to vehicles from the south due to backtracking to MR-118.	2	Allows trucks to bypass the downtown if desired. Good connection for vehicles from the north. Some backtracking still required for vehicles from the south.	1	Allows trucks to bypass the downtown if desired. Good connection for vehicles from the north. Vehicles from the south reach the BNTC via Cedar Lane interchange to East Service Rd. to South Interchange.	2	Allows trucks to bypass the downtown if desired. Good connection for vehicles from the north. Vehicles from the south reach the BNTC via Cedar Lane interchange to East Service Rd. to High Falls flyover.	2	Comparative ability of allowing routes outsi of downtown area for commercial vehicles (Lower = 3, Average = 2, Higherr = 1)
Recreational trails	No new road crossings for trails or trail relocations required.	1	More impact on TOP and OFSC trails.	3	Short length of impact on TOP trails and two trail crossings.	2	Short length of impact on TOP trails and two trail crossings.	2	Short length of impact on TOP trails and two trail crossings.	2	Comparative negative effect on number of trails affected (Higher = 3, Average = 2, Lower = 1)
atural Environment Watercourses/fisheries/ aquatic	No in-water works for new bridge over		Similar number of watercourse crossings,		Similar number of watercourse crossings,		Similar number of watercourse crossings,		No in-water works for bridge over		
habitat	Muskoka River; additional traffic with more potential conflicts at existing crossings.	1	generally further upstream than other routes.	2	generally further downstream than north route.	2	generally further downstream than north route.	2	Muskoka River; Similar number of watercourse crossings, further downstream than north route.	2	Comparative negative impact on crossing: (Higher = 3, Average = 2, Lower = 1)
Vegetation and woodlots	No additional impacts on natural vegetation/ woodlots.	1	General impacts along corridor.	2	Service roads and ramps avoid, but are close to, Red Oak research plots. Route is through Managed forest west of Manitoba Street. General impacts along corridor.		Route is through Managed forest west of Manitoba Street. General impacts along corridor.	2	Route is through Managed forest west of Manitoba Street. General impacts along corridor.	2	Comparative negative impact on vegetatio and woodlots (Higher = 3, Average = 2, Lower = 1)
Wildlife/terrestrial habitat	No additional impacts on terrestrial habitat.	1	More potential for wildlife impacts in natural areas remote from town.	3	Winter study revealed little deer activity near the Muskoka River.	2	Winter study revealed little deer activity near the Muskoka River.	2	Winter study revealed little deer activity near the Muskoka River.	2	Comparative negative impact on wildlife/terrestrial (Higher = 3, Average = 2, Lower = 1)
Wetlands	No additional impacts on wetland habitat.	1	Impacts more wetland area along Naismith, Falkenburg and S. Monck Roads.	3	Impacts wetlands adjacent to creek valleys and on S. Monck Road north of Partridge Lane.		Impacts wetlands adjacent to creek valleys and on S. Monck Road north of Partridge Lane.		Impacts wetlands adjacent to creek valleys and on S. Monck Road north of Partridge Lane.	2	Comparative negative impact on wetlands (Higher = 3, Average = 2, Lower = 1)
Species at Risk	No additional effects on potential habitat for SAR (2012).	1	May potentially affect habitat for Hognose, Ribbon snake (Provincially Threatened species).	2	May potentially affect habitat for Hognose, Ribbon snake (Provincially Threatened species).		May potentially affect habitat for Hognose, Ribbon snake (Provincially Threatened species).	2	May potentially affect habitat for Hognose, Ribbon snake (Provincially Threatened species).	2	Comparative negative impact on species a risk (Higher = 3, Average = 2, Lower = 1)
ocio-cultural Environment Noise	Noise will increase along existing developed road corridors but not due to road widening (no mitigation warranted).	2	Affects more homes along existing roads.	3	Avoids most homes along existing roads.	1	More potential impacts along Muskoka River with added bridge.	3	More potential impacts along Muskoka River with added bridge.	3	Comparative number of sensitive receptor negatively impacted (Higher = 3, Average = 2, Lower = 1)
Visual aesthetics	Views from Muskoka homes with added bridge.	2	More homes along existing roads have a view of the new arterial.	3	Minimizes number of existing homes with a view of the new arterial.	2	Views from Muskoka homes with added bridge.	3	Views from Muskoka homes with added bridge.	3	Comparative number of properties with negative visual impacts (Higher = 3, Average = 2, Lower = 1)

Residential property required	No impacts beyond MTO Recommended Plan.	1	Strips of ROW required at existing homes where route is along existing road. 42 parcels will be affected totaling 4.064 ha.	3	Route through less developed area and not along existing roads except for 0.410 km along Bonnell Road and 2.210 km along South Monck Drive. Residential: 20 parcels will be affected totaling 8.84 ha.	2	Route through less developed area and not along existing roads except for 0.410 km along Bonnell Road and 2.210 km along South Monck Drive. Residential: 22 parcels will be affected totaling 8.08 ha.	2	Impact along High Falls Road in addition to Middle and South Route impacts. Residential: 22 parcels will be affected totaling 8.42 ha.	2	Comparative number of residential properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Recreational/property impacts	No impacts beyond MTO Recommended Plan.	1	Impact on several BRMC trails near entrance. Seasonal Residential: 6 parcels/4.29 ha.	3	Impact on one BRMC trail at south end.	2	Impact on one BRMC trail at south end.	2	Minimal impact on BRMC. Seasonal Residential: 1 parcel is affected totaling 0.94 ha.	2	Comparative number of recreational properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Other property required	No impacts beyond MTO Recommended Plan.	1	Vacant Land: 8 parcels/14.41 ha. Commercial: 8 parcels/0.78 ha. Managed forest: 4 parcels/0.21 ha. Farmland: 4 parcels/0.102 ha. Farm Residential: 1 parcel/0.07 ha. Religious: 1 parcel/0.07 ha. Other: 1 parcel/0.101 ha.	3	Vacant Land (include crown land): 17 parcels/22.6 ha. Commercial: 7 parcels/0.78 ha. Managed forest: 1 parcel/4.810 ha. Farmland: 4 parcels/0.109 ha. Farm Residential: 1 parcel/0.07 ha.	2	Vacant Land (include crown land): 17 parcels/110.4 ha. Commercial: 7 parcels/0.78 ha. Managed forest: 1 parcel/4.810 ha. Farmland: 4 parcels/0.109 ha. Farm Residential: 1 parcel/0.07 ha.	2	Vacant Land (include crown land): 9.610 ha. Commercial: 0.78 ha. Managed forest: 4.810 ha. Farmland: 0.109 ha. Farmland Residential: 0.07 ha.	2	Comparative number of other properties/area impacted (where impacts to existing buildings is of greater concern) (Higher = 3, Average = 2, Lower = 1)
Compatibility with existing/ future land uses/ plans	e Compatible with MTO approved TESR for Highway 11. Does not accommodate future land uses. BNTC is shown in the Official Plan.	1	Supports development plans. All routes have impacts along S. Monck Drive.	1	Supports development plans. All routes have impacts along S. Monck Drive.	1	Supports development plans. New bridge undesirable to existing users All routes have impacts along S. Monck Drive.	2	Configuration may not support full development plans. New bridge undesirable to existing users All routes have impacts along S. Monck Drive.	3	Relative accommodation of existing and future land uses and Official Plan policies. (Less Accommodating = 3, Average Accommodation = 2, More Accommodating = 1)
Archaeological resources	No impacts beyond MTO Recommended Plan.	1	Area of high archaeological potential include ROW within 400m of a permanent watercourse, which involves most of the Study Area. Stage 2 Archeological assessment will be required for selected route in undisturbed areas.	2	Area of high archaeological potential include ROW within 400m of a permanent watercourse, which involves most of the Study Area. Stage 2 Archeological assessment will be required for selected route in undisturbed areas.	2	Area of high archaeological potential include ROW within 400m of a permanent watercourse, which involves most of the Study Area. Stage 2 Archeological assessment will be required for selected route in undisturbed areas.	2	Area of high archaeological potential include ROW within 400m of a permanent watercourse, which involves most of the Study Area. Stage 2 Archeological assessment will be required for selected route in undisturbed areas.	2	Relative area of high archaeological potential affected. (More Area = 3, Average Area = 2, Less Area = 1)
Heritage resources	No impacts beyond MTO Recommended Plan.	1	Church and graveyard at Manitoba Street.	2	Church and graveyard at Manitoba Street.	2	Church and graveyard at Manitoba Street.	2	Church and graveyard at Manitoba Street.	2	Comparative number of historic buildings that would be negatively impacted (Higher = 3, Average = 2, Lower = 1)
Economic Environment											
Future development potential	Does not provide access to new development	3	Less desirable as an alternative route for developments west of Bracebridge .	2	Will provide an alternative route to planned development.	1	Will provide an alternative route to planned development.	1	Development limited by interchange capacity.	2	Comparative effect on accessibility of planned future development areas (Higher = 3, Average = 2, Lower = 1)
Future development potential Accessibility to existing commercial areas	·	3		2	·	1	•	1	, ,	2	future development areas
Accessibility to existing commercial areas Engineering	Does not improve access to existing commercial areas in Bracebridge and beyond.		developments west of Bracebridge . May attract less traffic away from existing routes, thereby providing less improvement to traffic level of service in downtown and urban Bracebridge.		planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge.	2	planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge.	1 2	capacity. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge.		future development areas (Higher = 3, Average = 2, Lower = 1) Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond
Accessibility to existing commercial areas	development Does not improve access to existing commercial areas in Bracebridge and		developments west of Bracebridge . May attract less traffic away from existing routes, thereby providing less improvement to traffic level of service in		planned development. May attract more traffic from existing routes resulting in better LOS in downtown		planned development. May attract more traffic from existing routes resulting in better LOS in downtown	2	capacity. May attract more traffic from existing routes resulting in better LOS in downtown		future development areas (Higher = 3, Average = 2, Lower = 1) Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond
Accessibility to existing commercial areas Engineering Construction impacts Utility/service conflicts	Does not improve access to existing commercial areas in Bracebridge and beyond. No impacts beyond MTO Recommended Plan. No rail grade		developments west of Bracebridge . May attract less traffic away from existing routes, thereby providing less improvement to traffic level of service in downtown and urban Bracebridge. Intersections: Lone Pine Drive, Manitoba Street, Falkenburg Road, S. Monck Drive, Nichols Road, Partridge Lane, MR 118. 11.7 km including 1.710km along existing road profile. No rail grade separation	3	planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road, Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.8 km generally new road (S. Monck will require reconstruction). West Service Road required. Rail grade		planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road, Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.4 km generally new road. New Muskoka bridge and connection to Cedar	2 2	capacity. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road (2), Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.10 km generally new road. New Muskoka bridge and connection to Cedar Lane. Rail grade separation	2	future development areas (Higher = 3, Average = 2, Lower = 1) Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1) Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line
Accessibility to existing commercial areas Engineering Construction impacts	Does not improve access to existing commercial areas in Bracebridge and beyond. No impacts beyond MTO Recommended Plan. No rail grade separation possible No impacts beyond MTO		developments west of Bracebridge . May attract less traffic away from existing routes, thereby providing less improvement to traffic level of service in downtown and urban Bracebridge. Intersections: Lone Pine Drive, Manitoba Street, Falkenburg Road, S. Monck Drive, Nichols Road, Partridge Lane, MR 118. 11.7 km including 1.710km along existing road profile. No rail grade separation possible All routes include a crossing of the pipeline. Power lines required along	3	planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road, Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.8 km generally new road (S. Monck will require reconstruction). West Service Road required. Rail grade separation possible All routes include a crossing of the pipeline. Power lines required along	2	planned development. May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road, Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.4 km generally new road. New Muskoka bridge and connection to Cedar Lane. Rail grade separation possible All routes include a crossing of the pipeline. Power lines required along	2	May attract more traffic from existing routes resulting in better LOS in downtown and urban Bracebridge. Intersections: High Falls Road (2), Bonnell Road, Manitoba Street, Partridge Lane, MR 118. 9.10 km generally new road. New Muskoka bridge and connection to Cedar Lane. Rail grade separation possible All routes include a crossing of the pipeline. Power lines required along	2	future development areas (Higher = 3, Average = 2, Lower = 1) Comparative effect on accessibility to existing commercial areas in Bracebridge and beyond (Higher = 3, Average = 2, Lower = 1) Comparative number of at-grade intersections, km of road construction along existing road corridors and km of new road construction required; # of major creek crossings required; potential to provide a grade-separated crossing of the rail line (Higher = 3, Average = 2, Lower = 1) Comparative number # of pipeline crossings required and other utilities and services required.

Factor/Sub-factor	Significance
	Level
Transportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity	
and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	, and the second
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low
Louinatou duity foloodilon ooot	1011

							Common Scale				
	Factor/Sub-factor	Do Nothing	Preferred North Alternative	Preferred Middle Alternative	Preferred South Alternative	MTO Alternative with connection to preferred	Do Nothing	Preferred North Alternative	Preferred Middle Alternative	Preferred South Alternative	MTO Alternative with connection to preferred
	Transportation										
	Accommodation of future vehicular travel demand	3	2	1	2	2	1.00	0.67	0.33	0.67	0.67
	Accommodation of pedestrian and cyclist movements	3	1	1	1	1	1.00	0.33	0.33	0.33	0.33
	Travel safety	3	2	1	1	1	1.00	0.67	0.33	0.33	0.33
	Emergency service	3	2	1	1	1	1.00	0.67	0.33	0.33	0.33
	Future transportation network connectivity and compatibility	3	2	1	1	1	1.00	0.67	0.33	0.33	0.33
	Commercial goods movement	3	2	1	2	2	1.00	0.67	0.33	0.67	0.67
	Recreational trails	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Natural Environment										
	Watercourses/fisheries/ aquatic habitat	1	2	2	2	2	0.33	0.67	0.67	0.67	0.67
	Vegetation and woodlots	1	2	3	2	2	0.33	0.67	1.00	0.67	0.67
	Wildlife/terrestrial habitat	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Wetlands	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Species at Risk	1	2	2	2	2	0.33	0.67	0.67	0.67	0.67
	Socio-cultural Environment										
	Noise	2	3	1	3	3	0.67	1.00	0.33	1.00	1.00
	Visual aesthetics	2	3	2	3	3	0.67	1.00	0.67	1.00	1.00
	Residential property required	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Recreational/property impacts	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Other property required	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Compatibility with existing/ future land uses/ plans	1	1	1	2	3	0.33	0.33	0.33	0.67	1.00
	Archaeological resources	1	2	2	2	2	0.33	0.67	0.67	0.67	0.67
	Heritage resources	1	2	2	2	2	0.33	0.67	0.67	0.67	0.67
	Economic Environment										
	Future development potential	3	2	1	1	2	1.00	0.67	0.33	0.33	0.67
	Accessibility to existing commercial areas	3	3	2	2	2	1.00	1.00	0.67	0.67	0.67
	Engineering/Constructability										
	Construction impacts	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67
	Utility/service conflicts	1	3	3	3	3	0.33	1.00	1.00	1.00	1.00
	Construction Cost										
_	Estimated capital construction cost	1	3	3	3	3	0.33	1.00	1.00	1.00	1.00
	Estimated utility relocation cost	1	3	2	2	2	0.33	1.00	0.67	0.67	0.67

		Weighted Ranking				
Factor/Sub-factor	Weight	Do Nothing	Preferred North Alternative	Preferred Middle Alternative	Preferred South Alternative	MTO Alternative with connection to preferred
Transportation						
Accommodation of future vehicular travel demand	10	10.0	6.7	3.3	6.7	6.7
Accommodation of pedestrian and cyclist movements	4	4.0	1.3	1.3	1.3	1.3
Travel safety	10	10.0	6.7	3.3	3.3	3.3
Emergency service	10	10.0	6.7	3.3	3.3	3.3
Future transportation network connectivity and compatibility	4	4.0	2.7	1.3	1.3	1.3
Commercial goods movement	4	4.0	2.7	1.3	2.7	2.7
Recreational trails	4	1.3	4.0	2.7	2.7	2.7
Natural Environment						
Watercourses/fisheries/ aquatic habitat	4	1.3	2.7	2.7	2.7	2.7
Vegetation and woodlots	4	1.3	2.7	4.0	2.7	2.7
Wildlife/terrestrial habitat	4	1.3	4.0	2.7	2.7	2.7
Wetlands	10	3.3	10.0	6.7	6.7	6.7
Species at Risk	10	3.3	6.7	6.7	6.7	6.7
Socio-cultural Environment						
Noise	10	6.7	10.0	3.3	10.0	10.0
Visual aesthetics	4	2.7	4.0	2.7	4.0	4.0
Residential property required	10	3.3	10.0	6.7	6.7	6.7
Recreational/property impacts	10	3.3	10.0	6.7	6.7	6.7
Other property required	10	3.3	10.0	6.7	6.7	6.7
Compatibility with existing/ future land uses/ plans	4	1.3	1.3	1.3	2.7	4.0
Archaeological resources	1	0.3	0.7	0.7	0.7	0.7
Heritage resources	1	0.3	0.7	0.7	0.7	0.7
Economic Environment						
Future development potential	4	4.0	2.7	1.3	1.3	2.7
Accessibility to existing commercial areas	4	4.0	4.0	2.7	2.7	2.7
Engineering						
Construction impacts	4	1.3	4.0	2.7	2.7	2.7
Utility/service conflicts	4	1.3	4.0	4.0	4.0	4.0
Construction Cost						
Estimated capital construction cost	1	0.3	1.0	1.0	1.0	1.0
Estimated utility relocation cost	1	0.3	1.0	0.7	0.7	0.7
		86.7	120.0	80.3	93.0	95.7

Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements Travel safety	medium
	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	modiam
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	· · · g· ·
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/	medium
plans Archaeological resources	low
Heritage resources	low
Economic Environment	IOW
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	medium
Construction impacts	medium
Utility/service conflicts	
Construction Cost	medium
Estimated capital construction cost	low
Estimated utility relocation cost	low

Footov/Cub footov	Alternative M4 C2 D	Alternative M4 C2 F	Comments:
Factor/Sub-factor Transportation	Alternative M1 - S2-D	Alternative M1 - S2-E	Comments.
Accommodation of future vehicular travel demand	All in same vicinity and would attract same traffic from significant between	en alternatives.	
Accommodation of pedestrian and cyclist movements	under 3% to HFR; 5% grade south of HFR to	3-7% grades in creek valley west of Hwy 11; 8% grade in creek valley north of HFR/Bonnell; grades up to 3.5% to HFR; 5% grade south of HFR to Bonnell	
Travel safety	Intersection of BNTC and High Falls Road located in resulting from subdivision of land to be		
Emergency service	Both alternatives connect to High Falls Road and H service for emergency vehicles and improve acces		
Transportation network connectivity and compatibility	Provide similar network connectivity improving the access Highway 11 in the future. They are compatible in the Offic		
Commercial goods movement	Part of a route allowing trucks to bypass down	•	
Recreational trails	Both alternatives involve crossings of trails in the Recommended Plan will include trail re		
Natural Environment			
Watercourses/fisheries/ aquatic habitat	Crosses 2 coldwater watercourses	Crosses 3 coldwater watercourses further upstream than D (one tributary of another)	
Vegetation and woodlots	Forest stands of deciduous and coniferous tre		
Wildlife/terrestrial habitat	Route crosses through incised creek valleys further north of HFR behind homes. Disrupts landscape connectivity for wildlife movement. Outside of revised deer yard boundaries		
Wetlands	Affects swamp thicket comr	nunities at new crossings	
Species at Risk	May affect potential habitat for Hognose, Rib	bon snake (Provincially threatened species)	
Socio-cultural Environment			
Noise	1 receptor (at High Fal		
Visual aesthetics	1 full view	2 houses within 200m 1 full view 1 more distant view	
Residential property required	4 parcels (4.3, 0.5, 1.2 & 0.05 ha)	4 parcels (0.8, 0.7, 0.7 & 0.05 ha)	
Recreational/property impacts			
Other property required	Vacant: 3 parcels (1.7, 0.14 & 0.11 ha) Farmland: 1 parcel (670 m2) Crown land: 1 parcel (5.8 ha)	Vacant: 7 parcels (0.9, 0.7, 0.7, 3.0, 0.16 & 0.14 ha, 670 m2) Farmland: 1 parcel (670 m2) Crown land: 2 parcels (4.8, 0.7 ha) Managed Forest: 1 parcel (1.1 ha)	
Compatibility with existing/ future land uses/ plans	Outside urban area and part of a corridor providing north in Bra	alternative route for land developments west and	
Archaeological resources	All routes lie completely within areas of archaelogica a permanent v	vatercourse.	
Heritage resources	Historic buildings shown schematically along High cross HFR at the same location so		
Economic Environment Future development potential	Part of a corridor providing an alternative route for la	and developments on the west side of Bracebridge	
Accessibility to existing commercial areas	Will attract same amount of traffic away from exis wanting to visit comme		
Engineering Construction impacts	Intersections with High Falls Re	oad (1) and Ronnell Road (1)	# of at grade intersections & grade seperations
I .		TO ALCHAUS INCIDENTINIS OF MICHE SCHOOLS	
Construction impacts			# of km of road construction (no significant difference in
Construction impacts Construction impacts	3.0 km of new road Highest fills (13, 18 and 25m ±/-) across creek	3.2 km new road	# of km of road construction (no significant difference in these numbers wrt impacts)
Construction impacts	3.0 km of new road Highest fills (13, 18 and 25m +/-) across creek valleys	3.2 km new road Highest fills (13, 15, 17m +/-) across creek valleys	# of km of road construction (no significant difference in these numbers wrt impacts) # of major creek crossings
Construction impacts Utility/service conflicts	3.0 km of new road Highest fills (13, 18 and 25m +/-) across creek	3.2 km new road Highest fills (13, 15, 17m +/-) across creek valleys	# of km of road construction (no significant difference in these numbers wrt impacts)
Construction impacts	3.0 km of new road Highest fills (13, 18 and 25m +/-) across creek valleys New pipeline crossing north of HF 137,800 m3 rock exc 16,700 m3 earth exc 220,600 m3 fill New pipeline crossing, 2 large & 2 medium span	3.2 km new road Highest fills (13, 15, 17m +/-) across creek valleys R. Road profile can be adjusted 89,800 m3 rock exc 45,000 m3 earth exc 178,000 m3 fill New pipeline crossing, 2 large & 2 medium span creek culverts	# of km of road construction (no significant difference in these numbers wrt impacts) # of major creek crossings

Ranking	for	Sensitivity	Analysis.	
Nallkilly	101	Sensitivity	Milalysis.	

Preferred alternative for that factor

Higher Impact = 3 Average Impact = 2 Lower Impact = 1

Factor/Sub-factor	Alternative M1 - S2-D	Rank	Alternative M1 - S2-E	Rank
Transportation				
Accommodation of future vehicular travel demand	All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.	1	All in same vicinity and would attract same traffic from downtown. Difference in travel time would not be significant between alternatives.	1
Accommodation of pedestrian and cyclist movements	5-7% grades in creek valley west of Hwy 11; grades under 3% to HFR; 5% grade south of HFR to Bonnell	2	3-7% grades in creek valley west of Hwy 11; 8% grade in creek valley north of HFR/Bonnell; grades up to 3.5% to HFR; 5% grade south of HFR to Bonnell	3
Travel safety	Intersection of BNTC and High Falls Road located in area with gentle grades. Potential for driveways resulting from subdivision of land to be connected directly to the BNTC.	1	Intersection of BNTC and High Falls Road located in area with gentle grades. Potential for driveways resulting from subdivision of land to be connected directly to the BNTC.	1
Emergency service	Both alternatives connect to High Falls Road and Hwy 11 at same place. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.	1	Both alternatives connect to High Falls Road and Hwy 11 at same place. Alternatives provide similar service for emergency vehicles and improve access to rural properties in the High Falls Road area.	1
Transportation network connectivity and compatibility	Provide similar network connectivity improving the link between High Falls Road and a controlled access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1	Provide similar network connectivity improving the link between High Falls Road and a controlled-access Highway 11 in the future. They are compatible with planned infrastructre and development noted in the Official Plans.	1
Commercial goods movement	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown.	1	Part of a route allowing trucks to bypass downtown. Alleviate traffic congestion downtown.	1
Recreational trails	Both alternatives involve crossings of trails in the vicinity of the interchange with Highway 11. Recommended Plan will include trail relocation and crossings at roundabout	1	Both alternatives involve crossings of trails in the vicinity of the interchange with Highway 11. Recommended Plan will include trail relocation and crossings at roundabout	1
Natural Environment Watercourses/fisheries/ aquatic habitat			Crosses 3 coldwater watercourses further	
Vegetation and woodlots	Crosses 2 coldwater watercourses Forest stands of deciduous and coniferous trees,	2	upstream than D (one tributary of another) Forest stands of deciduous and coniferous trees,	3
Wildlife/terrestrial habitat	cultural woodland and cultural meadow	1	cultural woodland and cultural meadow	1
vviidille/terresthal nabitat	Route crosses through incised creek valleys further north of HFR behind homes. Disrupts landscape connectivity for wildlife movement. Outside of revised deer yard boundaries	2	Route crosses through incised creek valleys at property line through deer yard. Disrupts landscape connectivity for wildlife movement.	3
Wetlands	Affects swamp thicket communities at new crossings	1	Affects swamp thicket communities at new crossings	1
Species at Risk	May affect potential habitat for Hognose, Ribbon snake (Provincially threatened species)	1	May affect potential habitat for Hognose, Ribbon snake (Provincially threatened species)	1
Socio-cultural Environment				
Visual aesthetics	1 receptor (at High Falls Road intersection) 4 houses within 200m 1 full view	3	1 receptor (at High Falls Road intersection) 2 houses within 200m 1 full view	1 1
	3 obscured distant views		1 more distant view	
Residential property required Recreational/property impacts	4 parcels (4.3, 0.5, 1.2 & 0.05 ha)	3	4 parcels (0.8, 0.7, 0.7 & 0.05 ha)	1
Other property required	Vacant: 3 parcels (1.7, 0.14 & 0.11 ha) Farmland: 1 parcel (670 m2) Crown land: 1 parcel (5.8 ha)		Vacant: 7 parcels (0.9, 0.7, 0.7, 3.0, 0.16 & 0.14 ha, 670 m2) Farmland: 1 parcel (670 m2) Crown land: 2 parcels (4.8, 0.7 ha) Managed Forest: 1 parcel (1.1 ha)	3
Compatibility with existing/ future land uses/ plans	Outside urban area and part of a corridor providing alternative route for land developments west and north in Bracebridge	1	Outside urban area and part of a corridor providing alternative route for land developments west and north in Bracebridge	1
Archaeological resources	All routes lie completely within areas of archaelogical potential, which includes the ROW within 300m of a permanent watercourse.	1	All routes lie completely within areas of archaelogical potential, which includes the ROW within 300m of a permanent watercourse.	1
Heritage resources	Historic buildings shown schematically along High Falls Road on the 1879 Township maps. Routes cross HFR at the same location so any impacts would be the same.	1	Historic buildings shown schematically along High Falls Road on the 1879 Township maps. Routes cross HFR at the same location so any impacts would be the same.	1
Future development potential	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1	Part of a corridor providing an alternative route for land developments on the west side of Bracebridge	1
Accessibility to existing commercial areas	Will attract same amount of traffic away from existing routes, thereby improving access for those wanting to visit commerical areas downtown	1	Will attract same amount of traffic away from existing routes, thereby improving access for those wanting to visit commerical areas downtown	1
Engineering/constructability Construction impacts	Intersections with High Falls Road (1) and Bonnell Road (1)	1	Intersections with High Falls Road (1) and Bonnell Road (1)	1
Construction impacts Construction impacts	3.0 km of new road Highest fills (13, 18 and 25m +/-) across creek	1	3.2 km new road	1
Utility/service conflicts	valleys New pipeline crossing north of HFR. Road profile	3 1	Highest fills (13, 15, 17m +/-) across creek valleys New pipeline crossing north of HFR. Road profile	1
Construction Cost	can be adjusted		can be adjusted	
Estimated capital construction cost	137,800 m3 rock exc		89,800 m3 rock exc	
Estimated utility relocation cost	16,700 m3 earth exc 220,600 m3 fill New pipeline crossing, 2 large & 2 medium span creek culverts New crossing of pipeline est at \$250,000	3	45,000 m3 earth exc 178,000 m3 fill New pipeline crossing, 2 large & 2 medium span creek culverts New crossing of pipeline est at \$250,000	2

Segment M1-S2

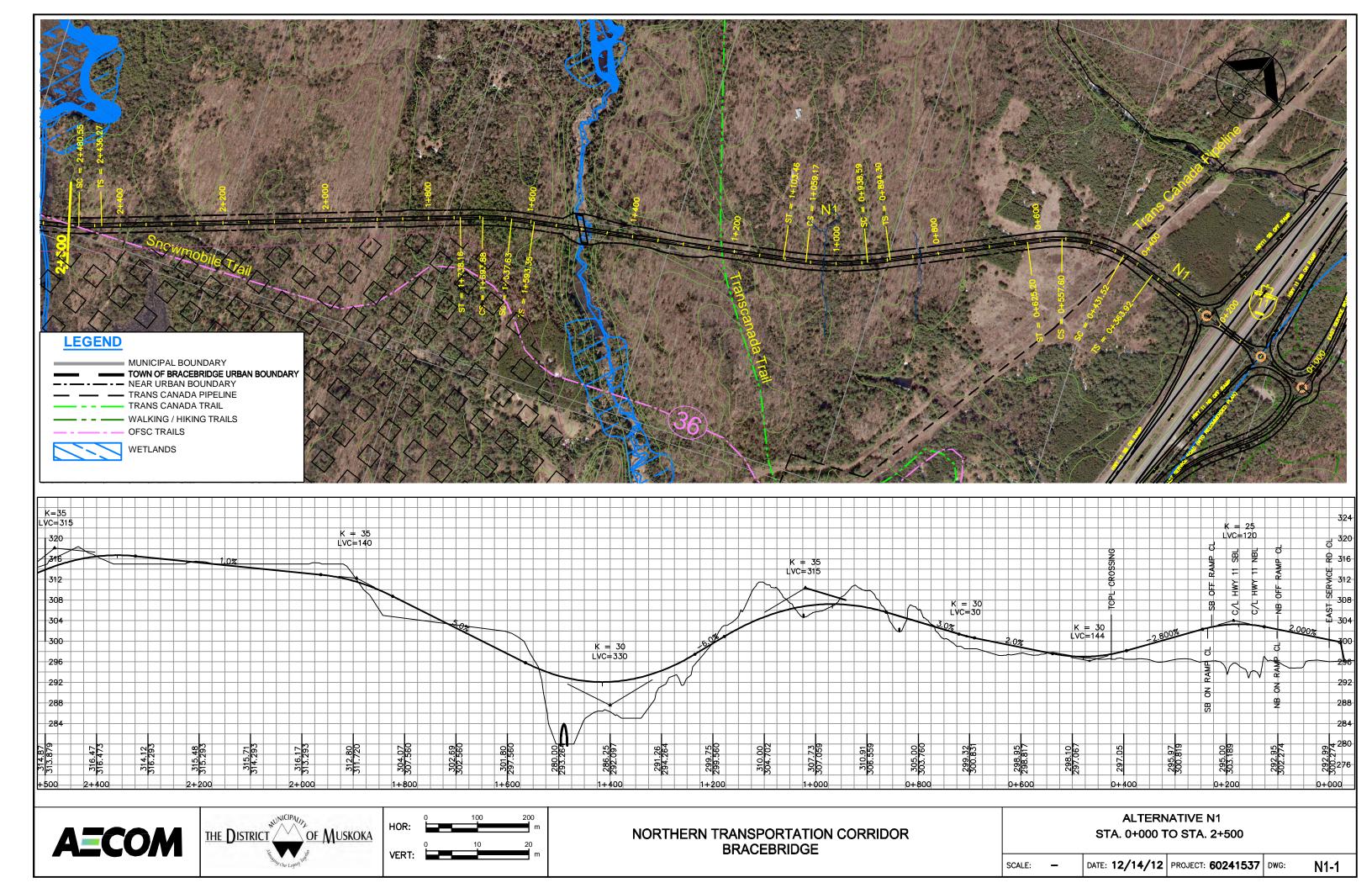
Factor/Sub-factor	Significance Level
Fransportation	
Accommodation of future vehicular travel	
demand	high
Accommodation of pedestrian and cyclist	
movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity	
and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	Ŭ
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/	!:
plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	low
Accessibility to existing commercial areas	
	medium
Engineering/Constructability	
Construction impacts	medium
Construction impacts	medium
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low

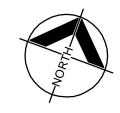
			Common Scale		
Factor/Sub-factor	Alternative	Alternative	Alternative	Alternative	
	M1 - S2-D	M1 - S2-E	M1 - S2-D	M1 - S2-E	
Transportation					
Accommodation of future vehicular travel			0.33	0.22	
demand	'	1	0.33	0.33	
Accommodation of pedestrian and cyclist	2	3	0.67	1.00	
movements	_	J			
Travel safety	1	1	0.33 0.33		
Emergency service	1	1	0.33	0.33	
Future transportation network connectivity	1	1	0.33	0.33	
and compatibility	'	'			
Commercial goods movement	1	1	0.33	0.33	
Recreational trails	1	1	0.33	0.33	
Natural Environment					
Watercourses/fisheries/ aquatic habitat	2	3	0.67	1.00	
Vegetation and woodlots	1	1	0.33	0.33	
Wildlife/terrestrial habitat	2	3	0.67	1.00	
Wetlands	1	1	0.33	0.33	
Species at Risk	1	1	0.33	0.33	
Socio-cultural Environment					
Noise	1	1	0.33	0.33	
Visual aesthetics	3	1	1.00	0.33	
Residential property required	3	1	1.00	0.33	
Recreational/property impacts	1	1	0.33	0.33	
Other property required	2	2 3 0.67		1.00	
Compatibility with existing/ future land uses/	1	1	0.33	0.33	
plans	ı	'	0.55	0.55	
Archaeological resources	1	1	0.33	0.33	
Heritage resources	1	1	0.33	0.33	
Economic Environment					
Future development potential	1	1	0.33	0.33	
Accessibility to existing commercial areas	1	1	0.33	0.33	
	ı	'	0.55	0.55	
Engineering/Constructability					
Construction impacts	1	1	0.33	0.33	
Construction impacts	1	1	0.33	0.33	
Construction impacts	3	2	1.00	0.67	
Utility/service conflicts	1	1	0.33	0.33	
Construction Cost					
Estimated capital construction cost	3	2	1.00	0.67	
Estimated utility relocation cost	1	1	0.33	0.33	

Weighting based on Significance of Potential impacts (low = 1, medium = 4 and high = 10)

		Weighted Ranking Alternative Alternative		
Factor/Sub-factor	Weight	Alternative M1 - S2-D	Alternative M1 - S2-E	
Transportation	weight	WII - 32-D	WII - 32-L	
Accommodation of future vehicular travel				
demand	10	3.3	3.3	
Accommodation of pedestrian and cyclist movements	4	2.7	4.0	
Travel safety	10	3.3	3.3	
Emergency service	10	3.3	3.3	
Future transportation network connectivity and compatibility	4	1.3	1.3	
Commercial goods movement	4	1.3	1.3	
Recreational trails	4	1.3	1.3	
Natural Environment				
Watercourses/fisheries/ aquatic habitat	4	2.7	4.0	
Vegetation and woodlots	4	1.3	1.3	
Wildlife/terrestrial habitat	4	2.7	4.0	
Wetlands	10	3.3	3.3	
Species at Risk	10	3.3	3.3	
Socio-cultural Environment				
Noise	10	3.3	3.3	
Visual aesthetics	4	4.0	1.3	
Residential property required	10	10.0	3.3	
Recreational/property impacts	10	3.3	3.3	
Other property required	10	6.7	10.0	
Compatibility with existing/ future land uses/ plans	4	1.3	1.3	
Archaeological resources	1	0.3	0.3	
Heritage resources	1	0.3	0.3	
Economic Environment				
Future development potential	4	1.3	1.3	
Accessibility to existing commercial areas	4	1.3	1.3	
Engineering/Constructability				
Construction impacts	4	1.3	1.3	
Construction impacts	4	1.3	1.3	
Construction impacts	4	4.0	2.7	
Utility/service conflicts				
Construction Cost				
Estimated capital construction cost	1	1.0	0.7	
Estimated utility relocation cost	1	0.3	0.3	
		71.3	67.7	

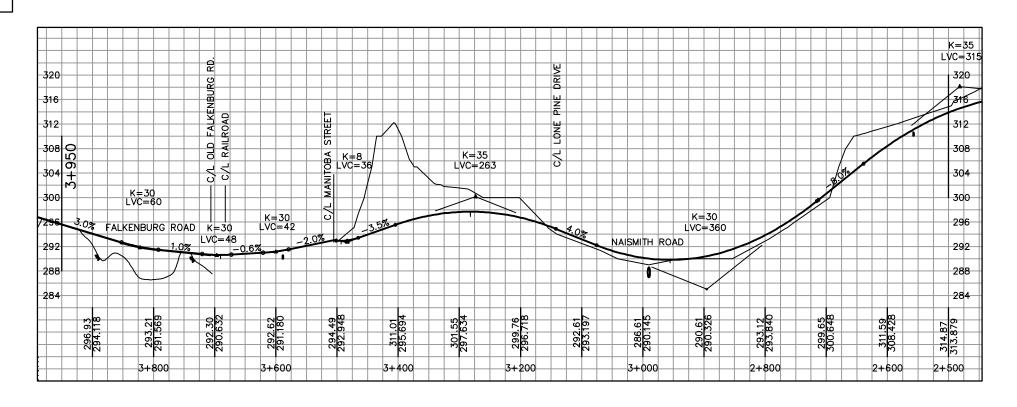
Factor/Sub-factor	Significance Level
Transportation	
Accommodation of future vehicular travel demand	high
Accommodation of pedestrian and cyclist movements	medium
Travel safety	high
Emergency service	high
Future transportation network connectivity and compatibility	medium
Commercial goods movement	medium
Recreational trails	medium
Natural Environment	
Watercourses/fisheries/ aquatic habitat	medium
Vegetation and woodlots	medium
Wildlife/terrestrial habitat	medium
Wetlands	high
Species at Risk	high
Socio-cultural Environment	
Noise	high
Visual aesthetics	medium
Residential property required	high
Recreational/property impacts	high
Other property required	high
Compatibility with existing/ future land uses/ plans	medium
Archaeological resources	low
Heritage resources	low
Economic Environment	
Future development potential	medium
Accessibility to existing commercial areas	medium
Engineering/Constructability	
Construction impacts	medium
Construction impacts	medium
Construction impacts	medium
Utility/service conflicts	medium
Construction Cost	
Estimated capital construction cost	low
Estimated utility relocation cost	low





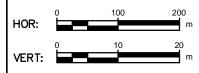


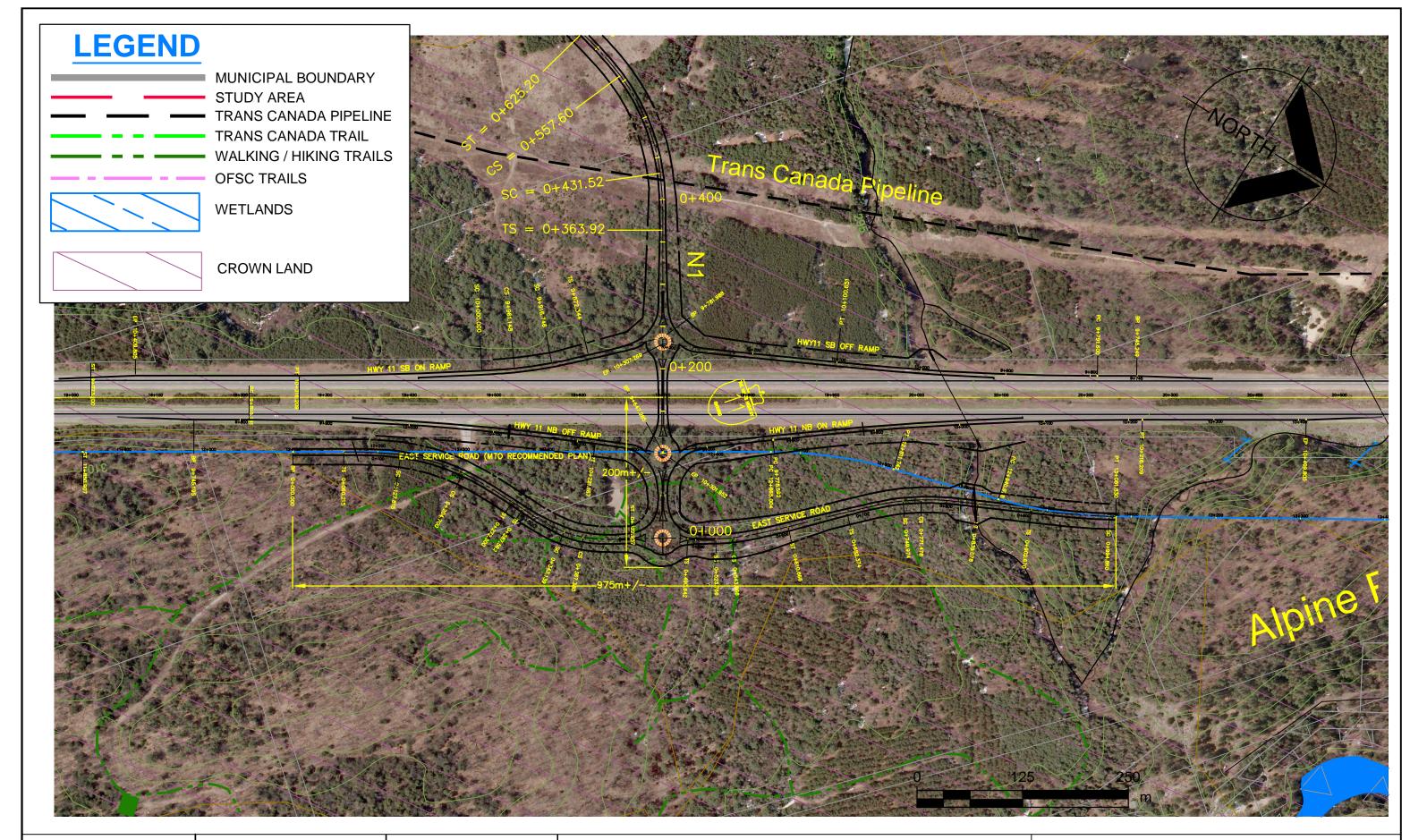
MUNICIPAL BOUNDARY TOWN OF BRACEBRIDGE URBAN BOUNDARY NEAR URBAN BOUNDARY TRANS CANADA PIPELINE TRANS CANADA TRAIL WALKING / HIKING TRAILS OFSC TRAILS WETLANDS





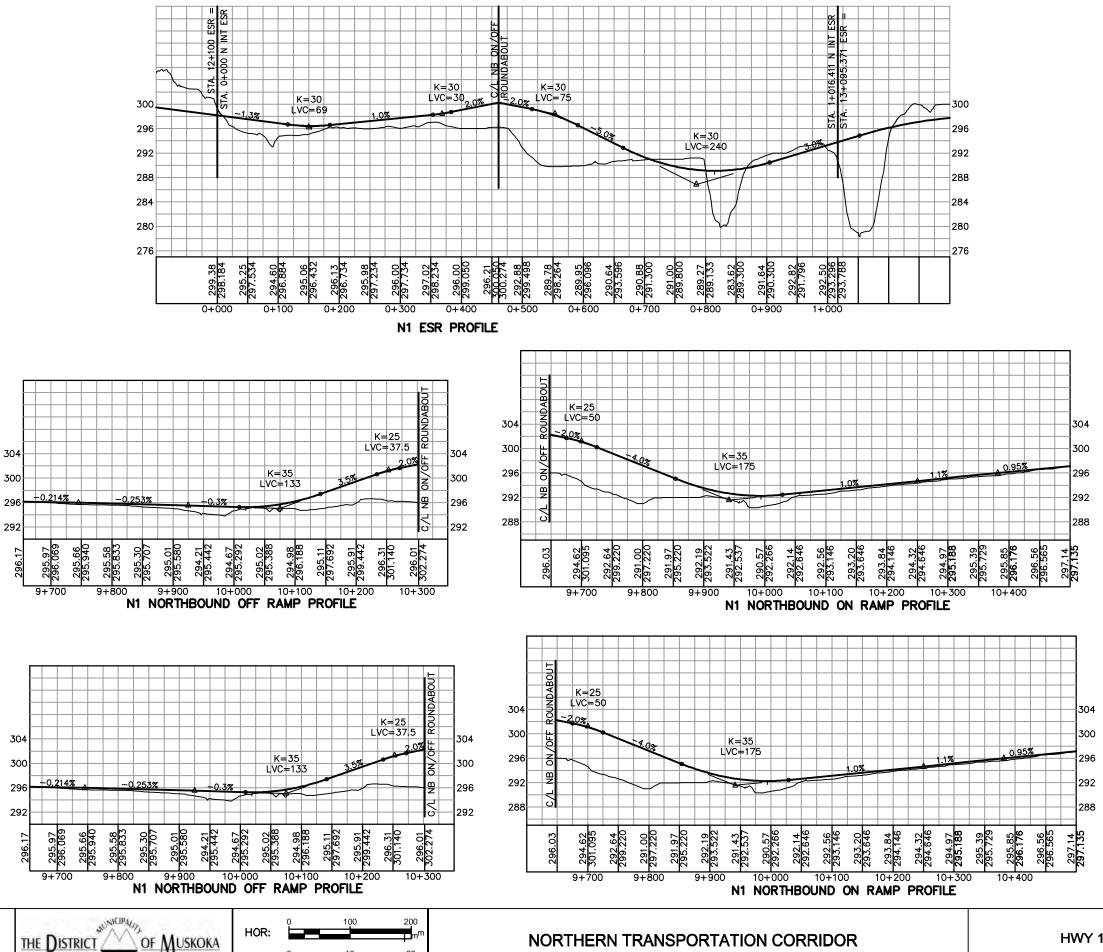






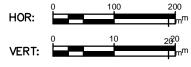
















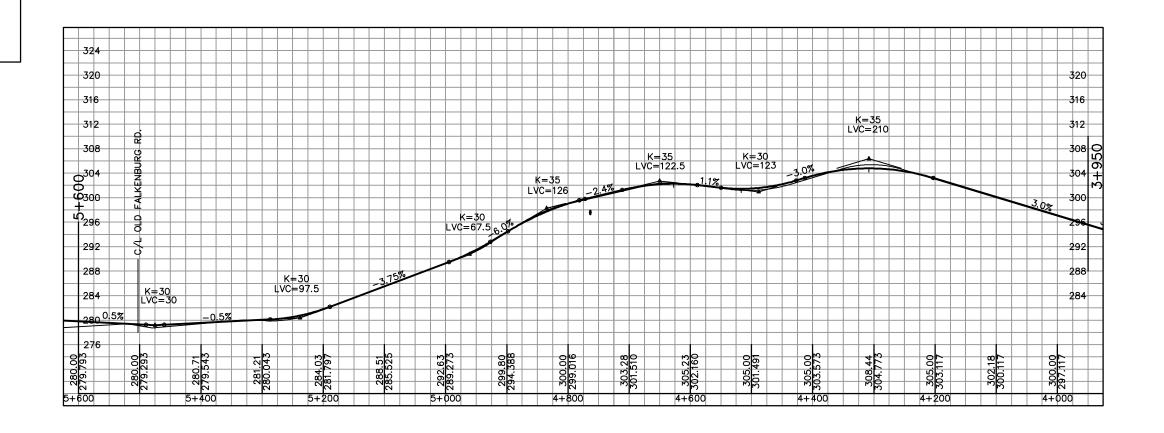
LEGEND

MUNICIPAL BOUNDARY
TOWN OF BRACEBRIDGE URBAN BOUNDARY
NEAR URBAN BOUNDARY

TRANS CANADA PIPELINE TRANS CANADA TRAIL

WALKING / HIKING TRAILS OFSC TRAILS

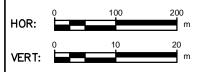
WETLANDS



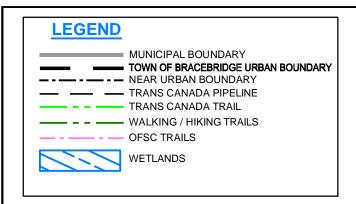
BRACEBRIDGE

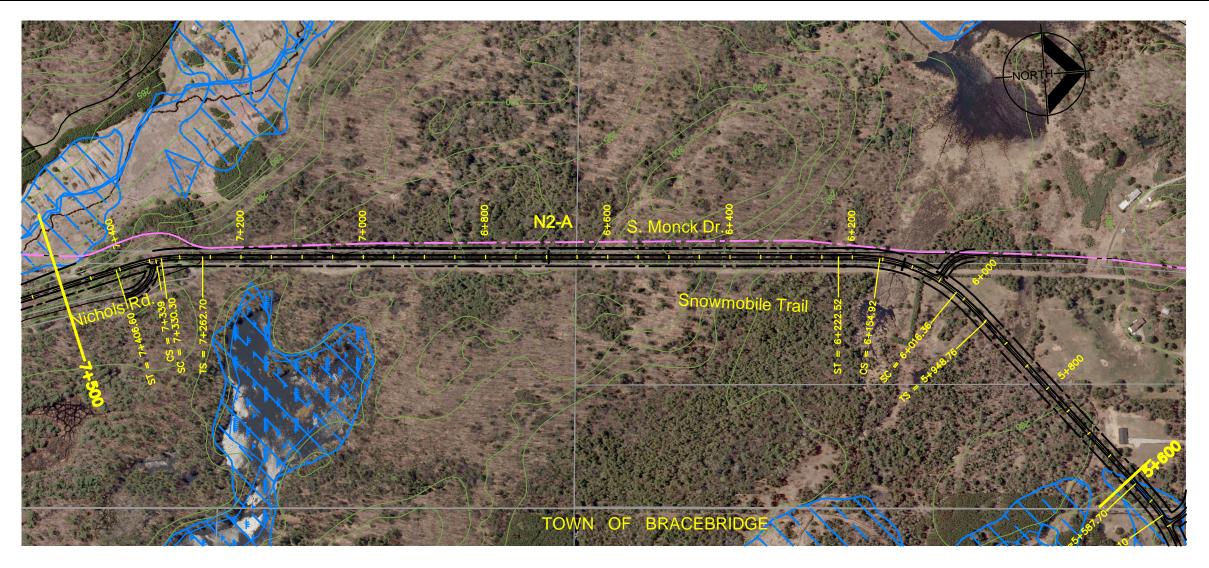






N2-A1

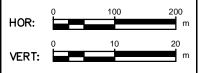




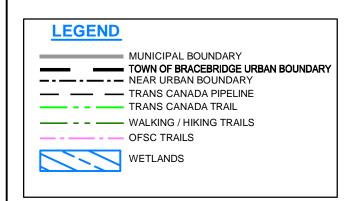


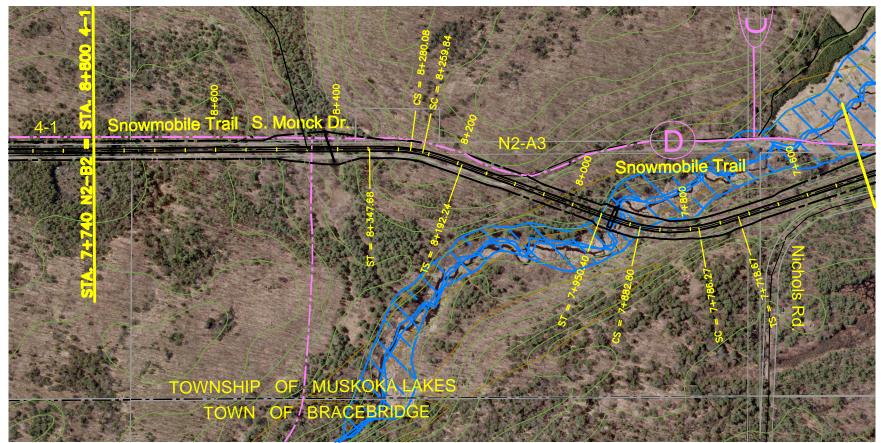




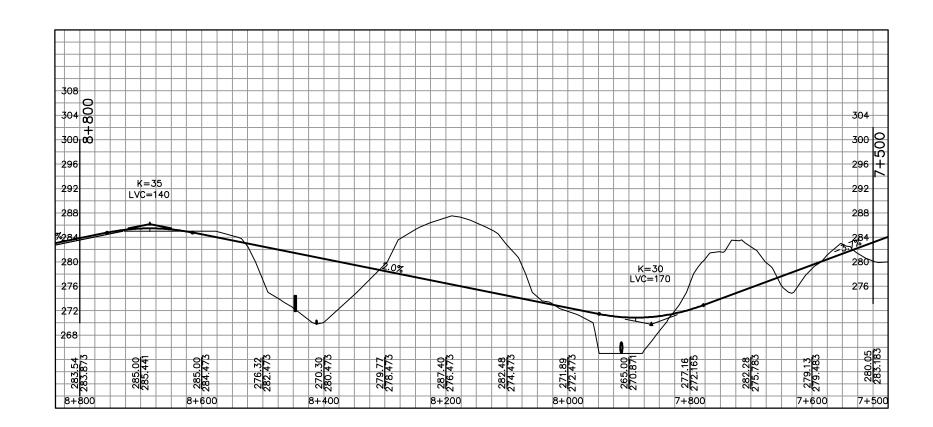


ALTERNATIVE N2-A STA. 5+600 TO STA. 7+500







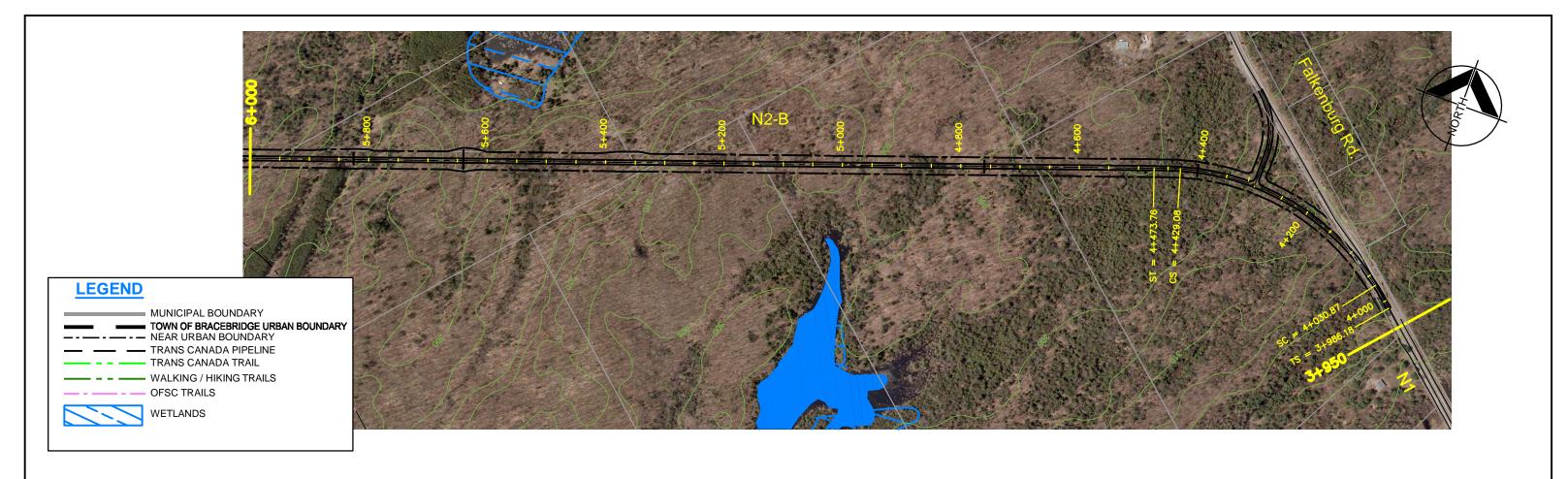


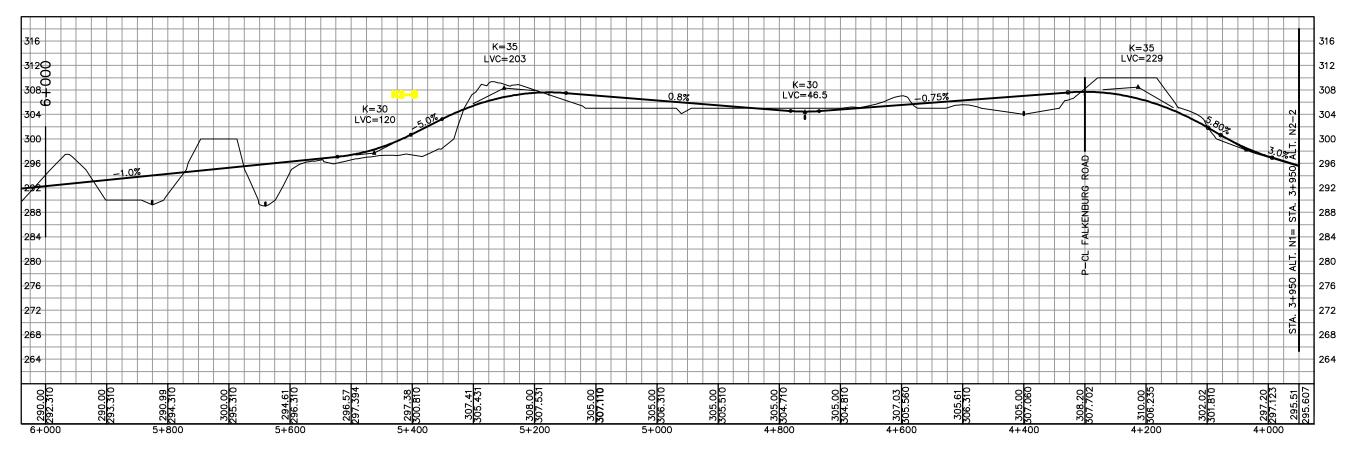






ALTERNATIVE N2-A STA. 7+500 TO STA. 8+800

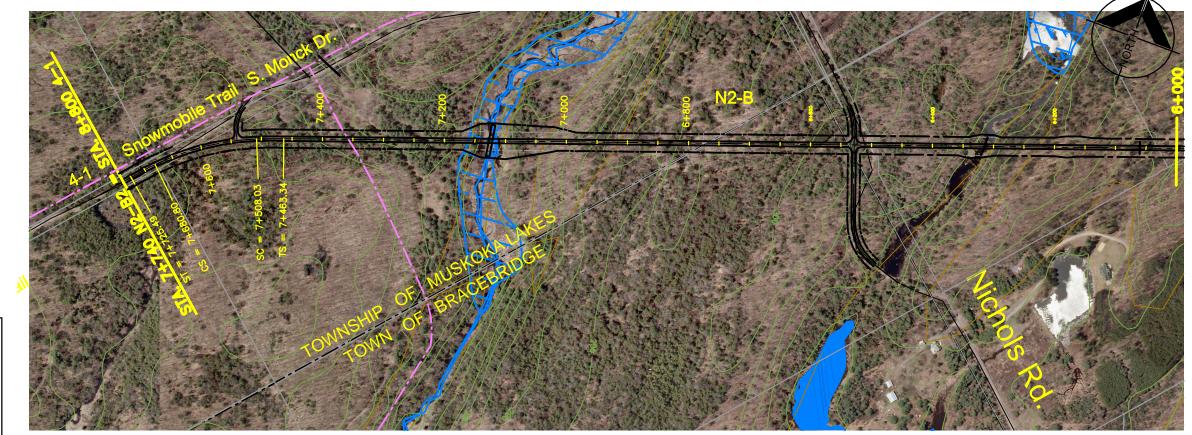


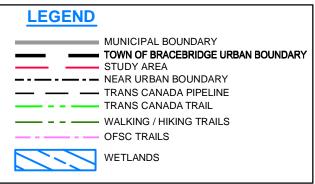


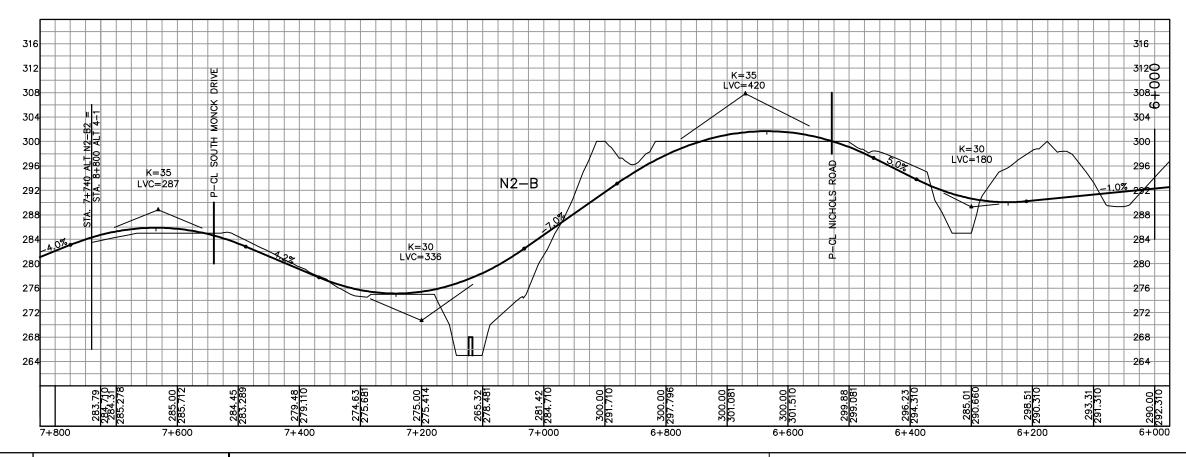










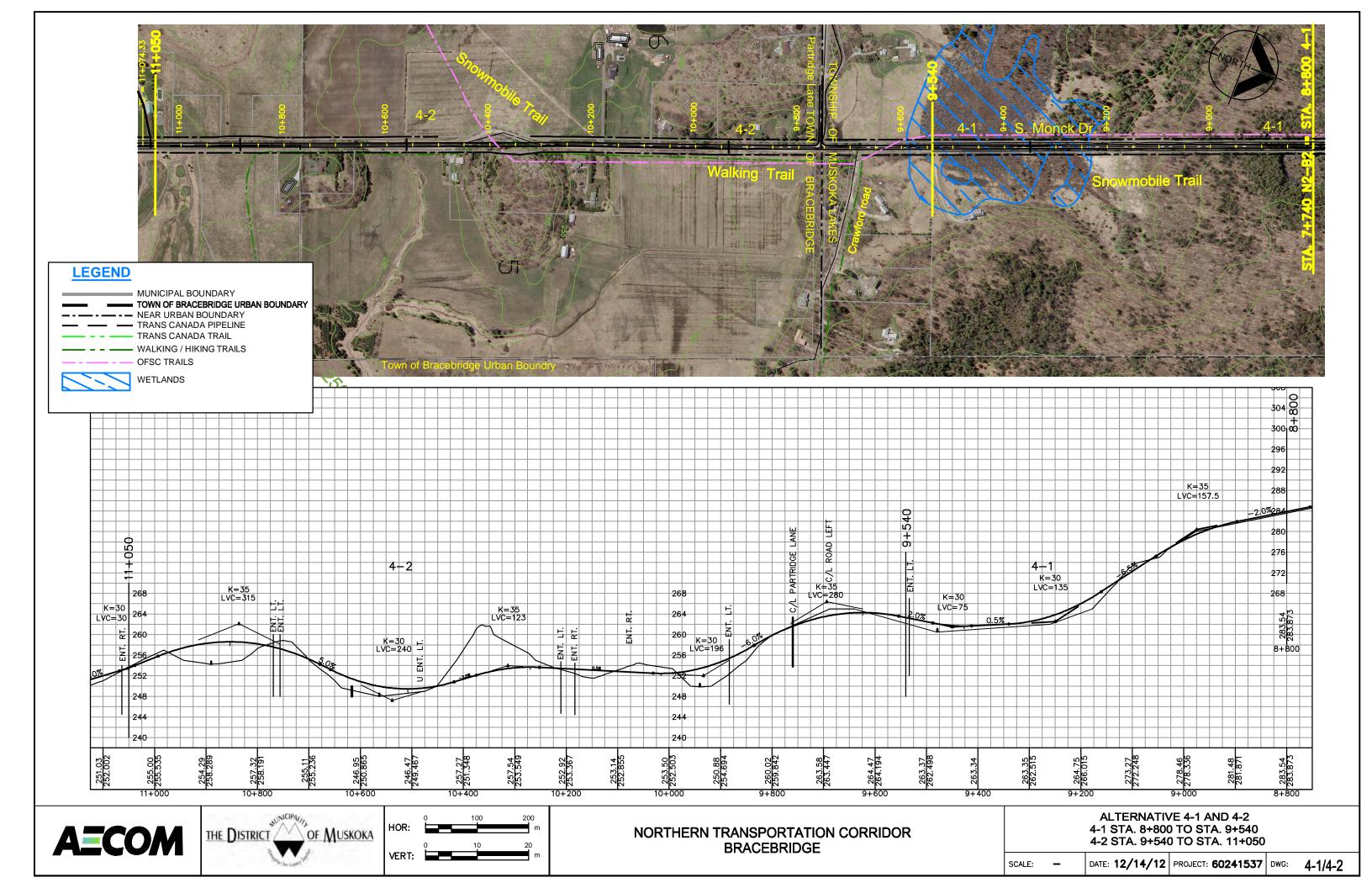






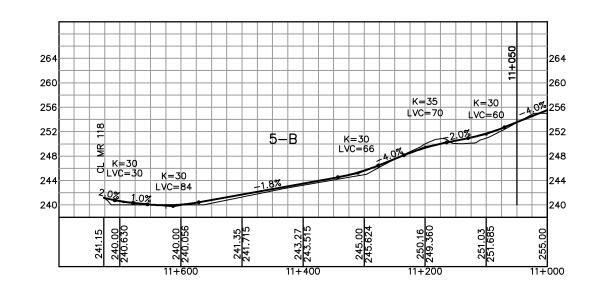


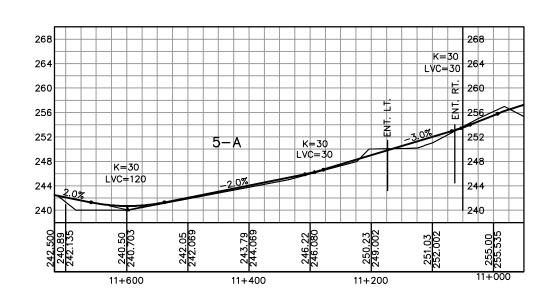
ALTERNATIVE N2-2B STA. 6+000 TO STA. 7+740





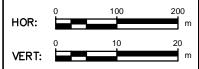


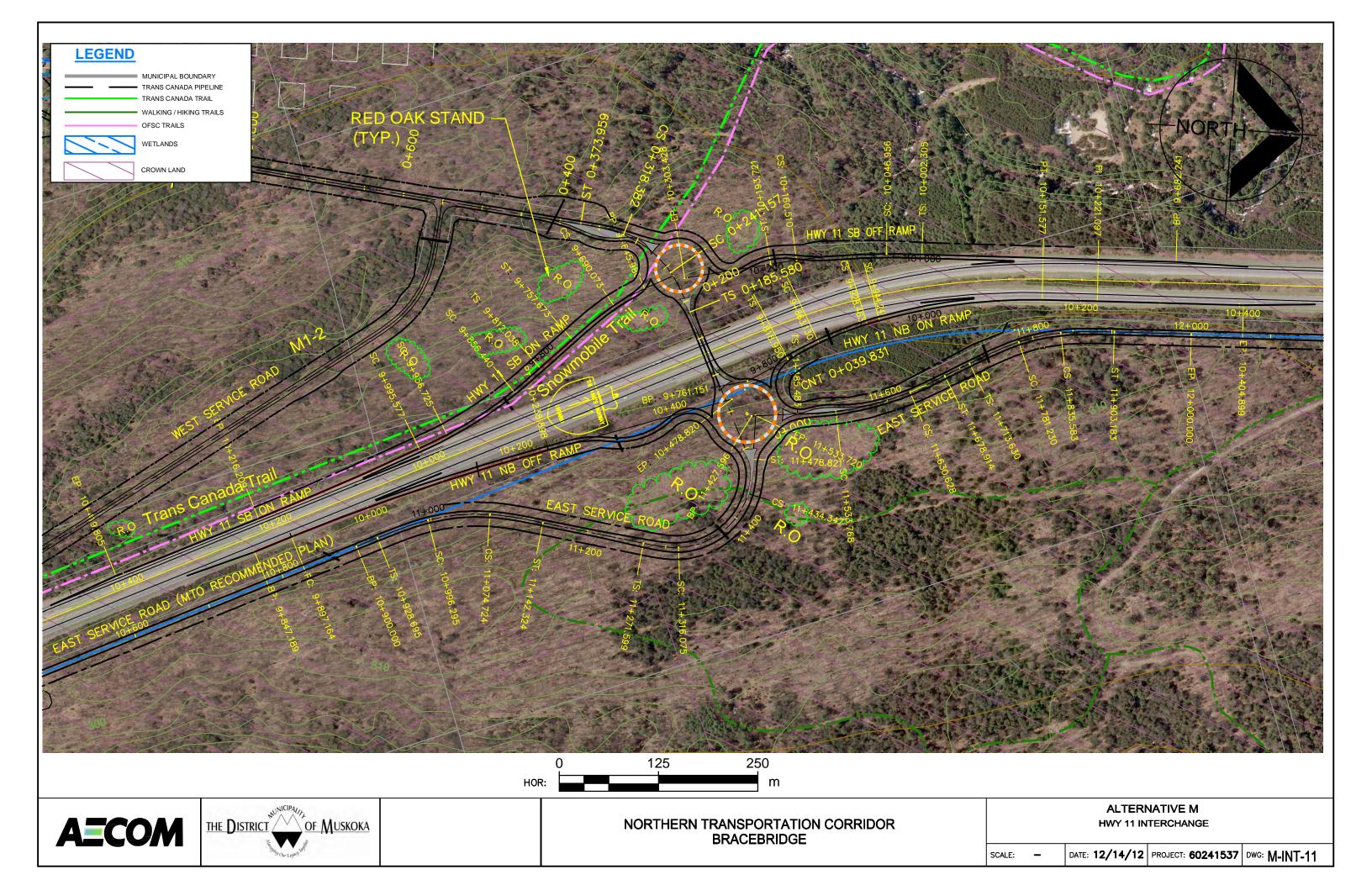


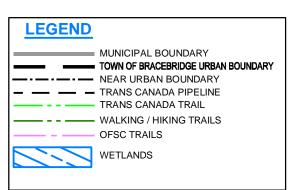


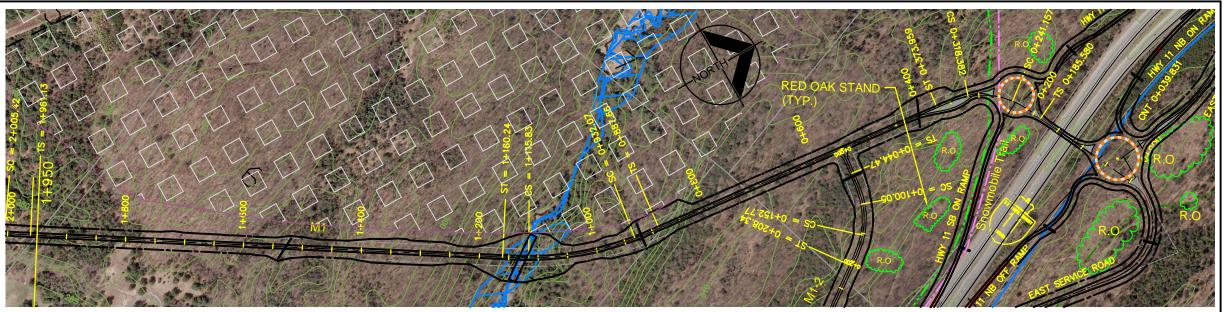


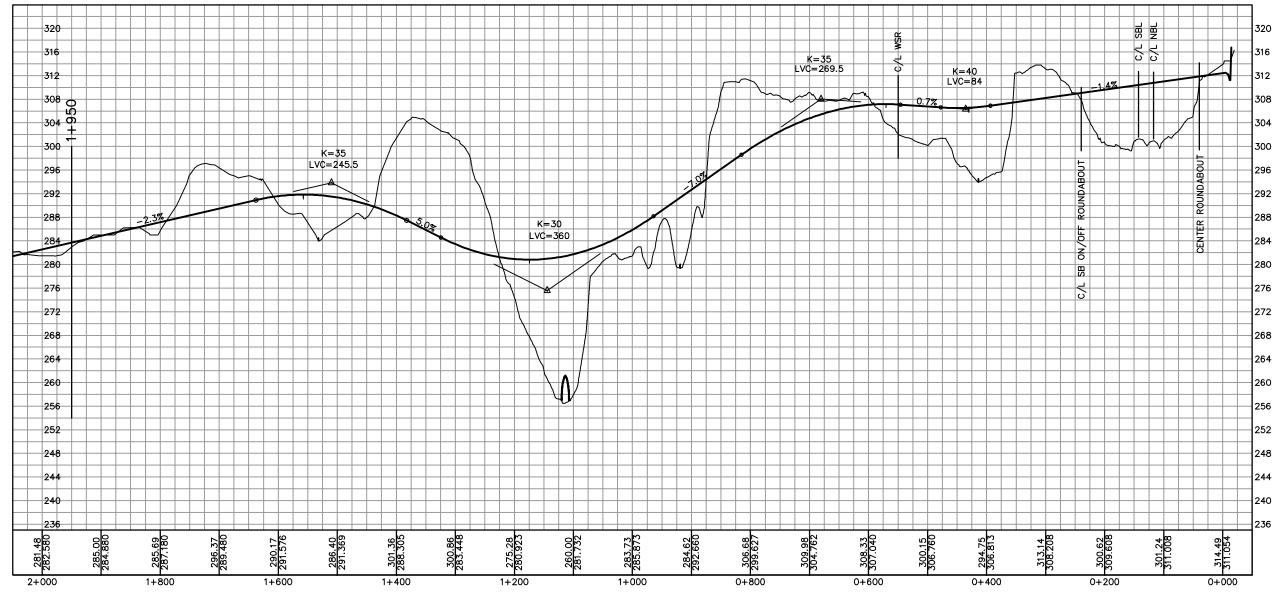




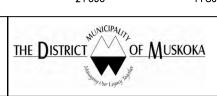












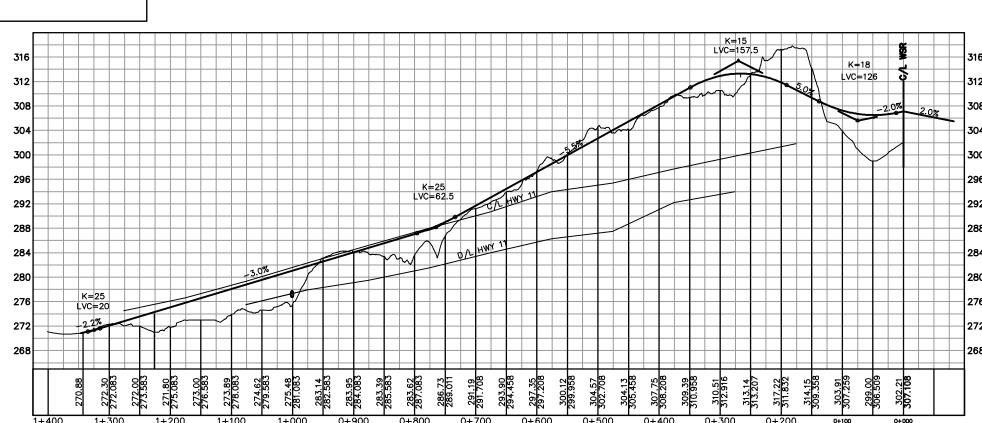


ALTERNATIVE M1		
STA. 0+000 TO STA.1+950		

DATE: 12/14/12 PROJECT: 60241537 DWG: SCALE: -

M1-1





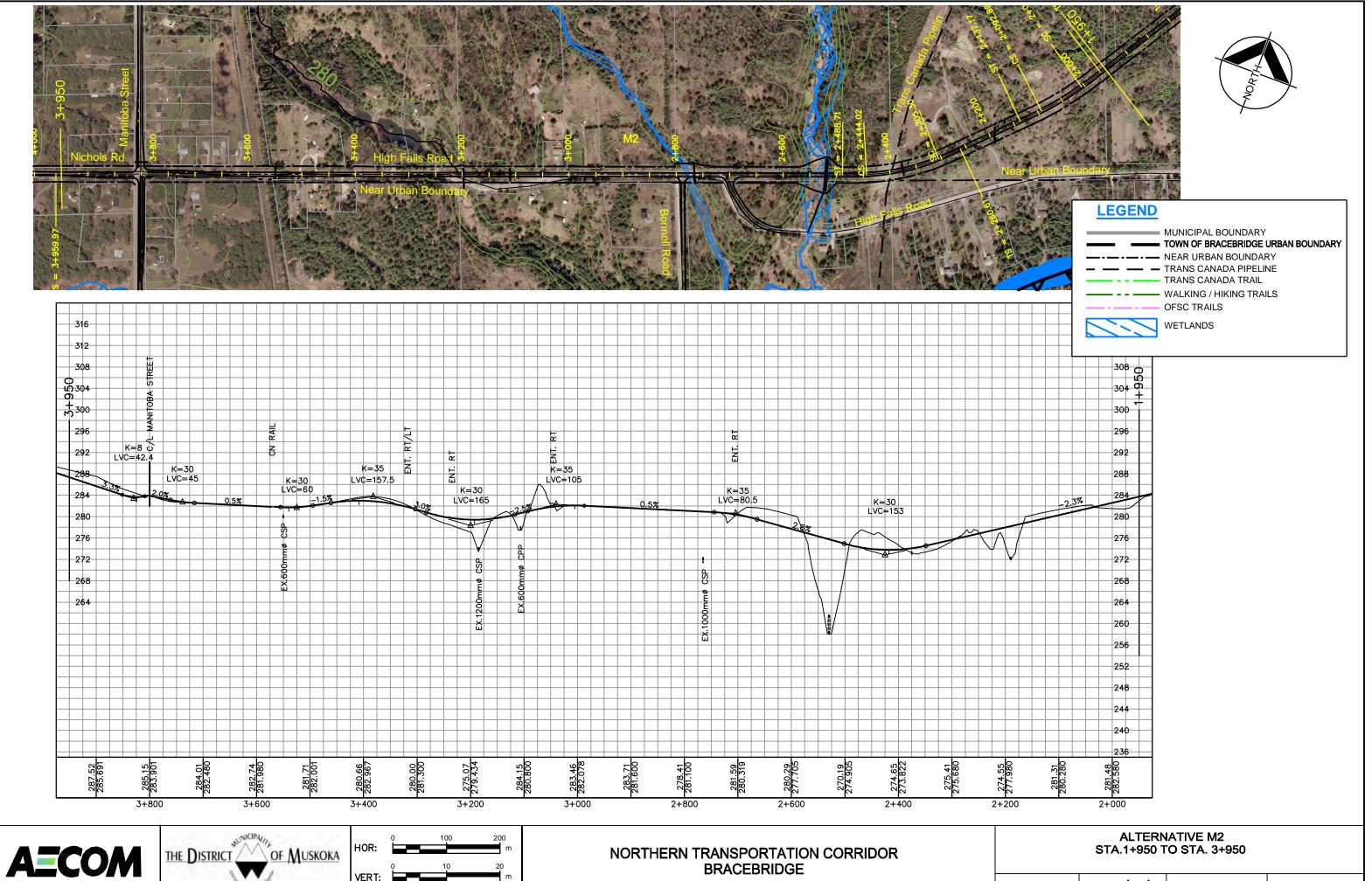
AECOM





NORTHERN TRANSPORTATION CORRIDOR BRACEBRIDGE

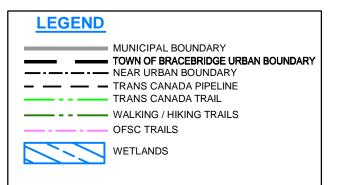
ALTERNATIVE M1 STA. 0+000 TO STA. 1+400



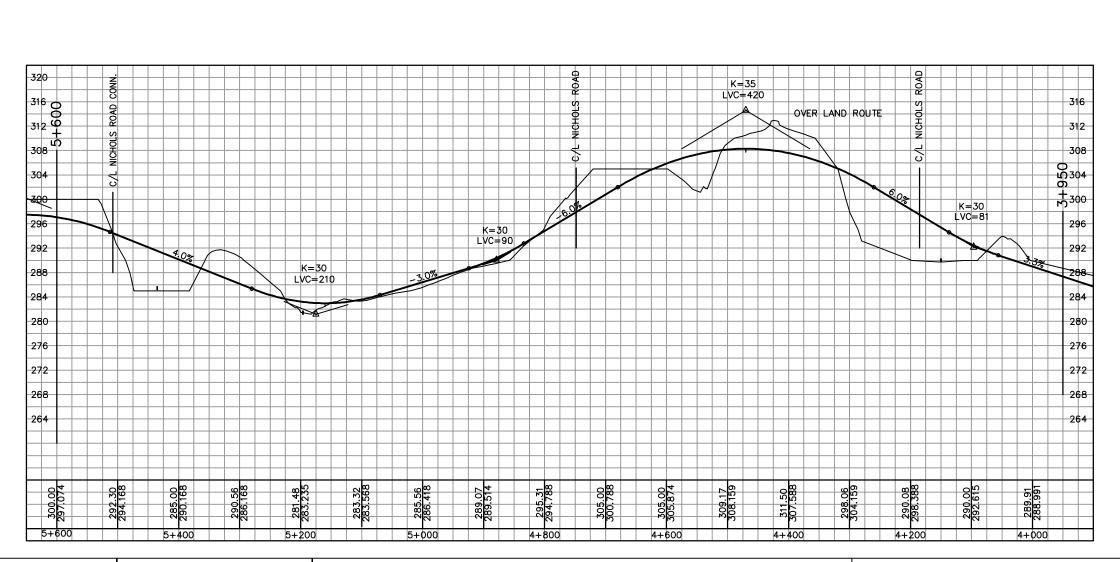










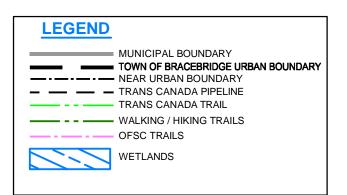


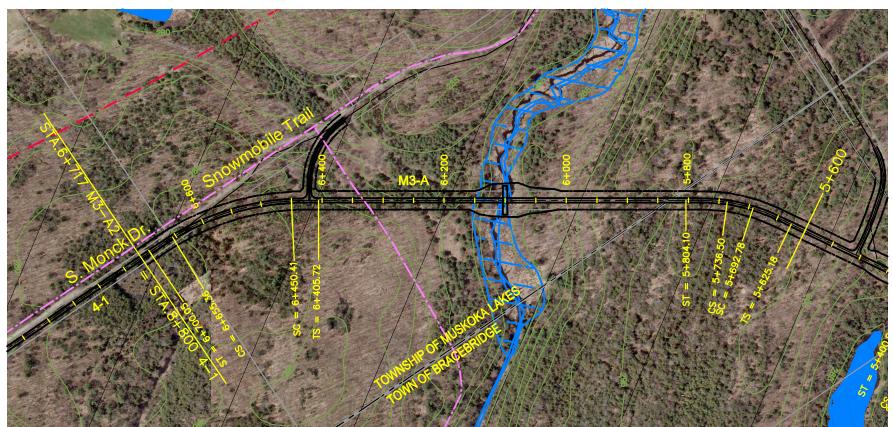


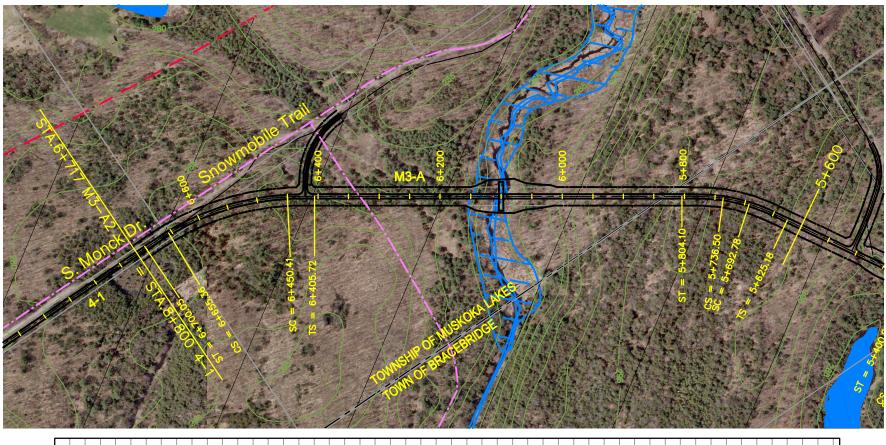


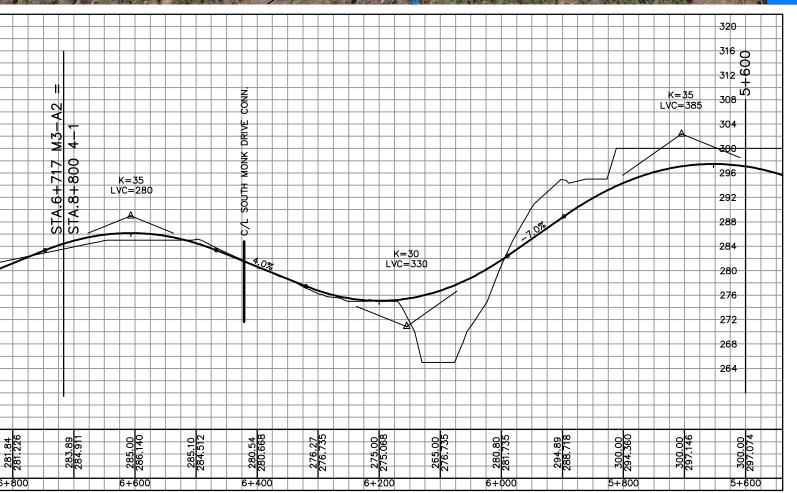


ALTERNATIVE M3-A STA.3+950 TO STA. 5+600







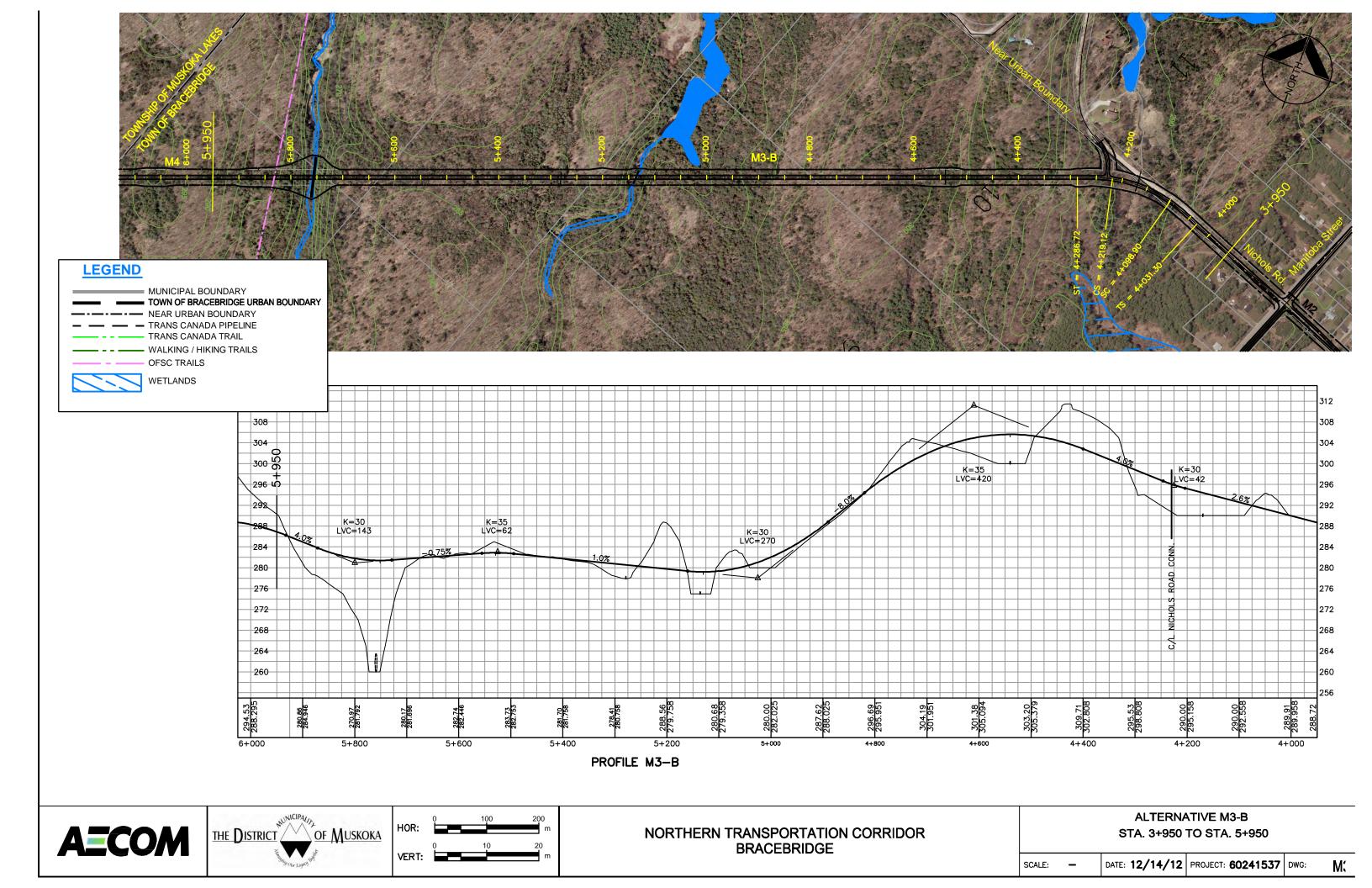


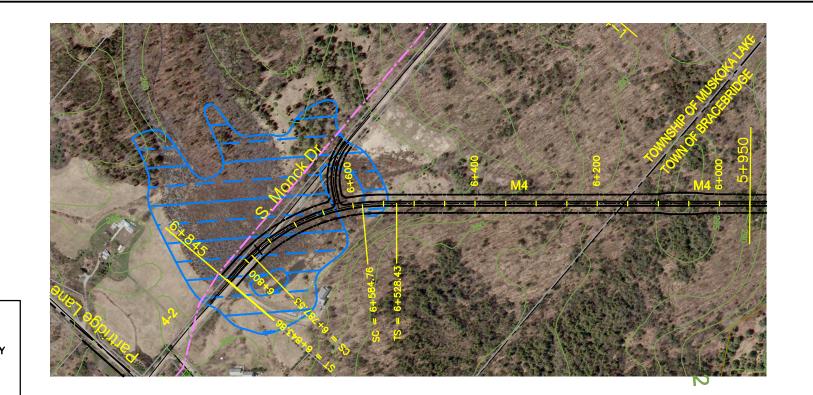






ALTERNATIVE M3-A STA.5+600 TO STA. 6+717







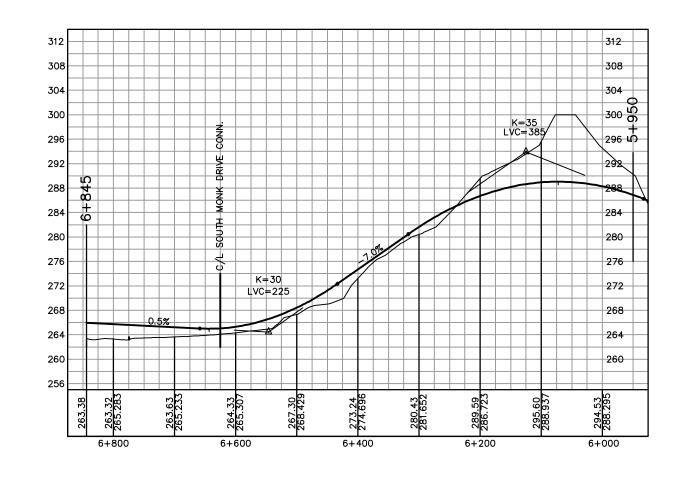
LEGEND

MUNICIPAL BOUNDARY
TOWN OF BRACEBRIDGE URBAN BOUNDARY

NEAR URBAN BOUNDARY
TRANS CANADA PIPELINE
TRANS CANADA TRAIL
WALKING / HIKING TRAILS

OFSC TRAILS

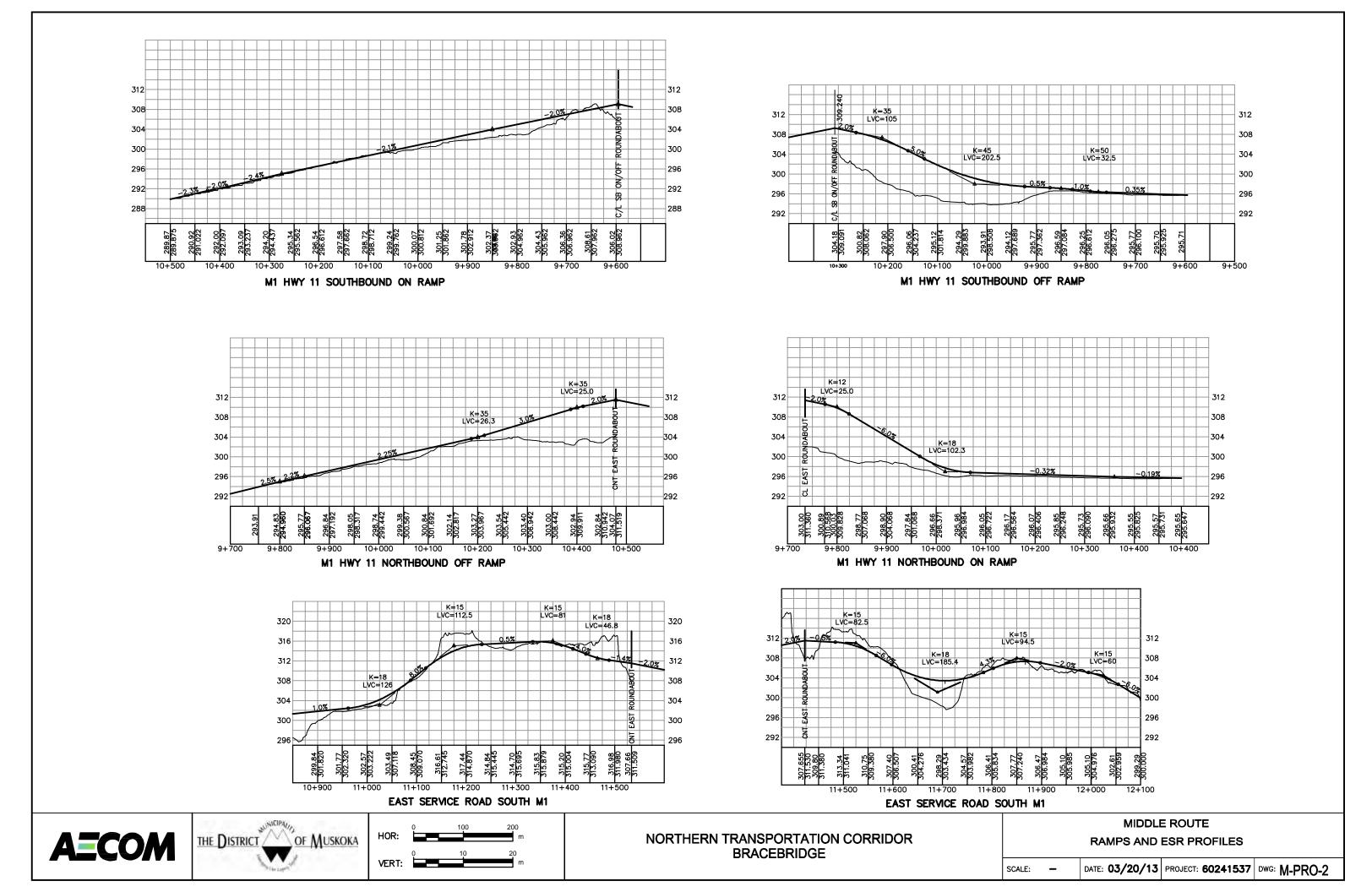
WETLANDS

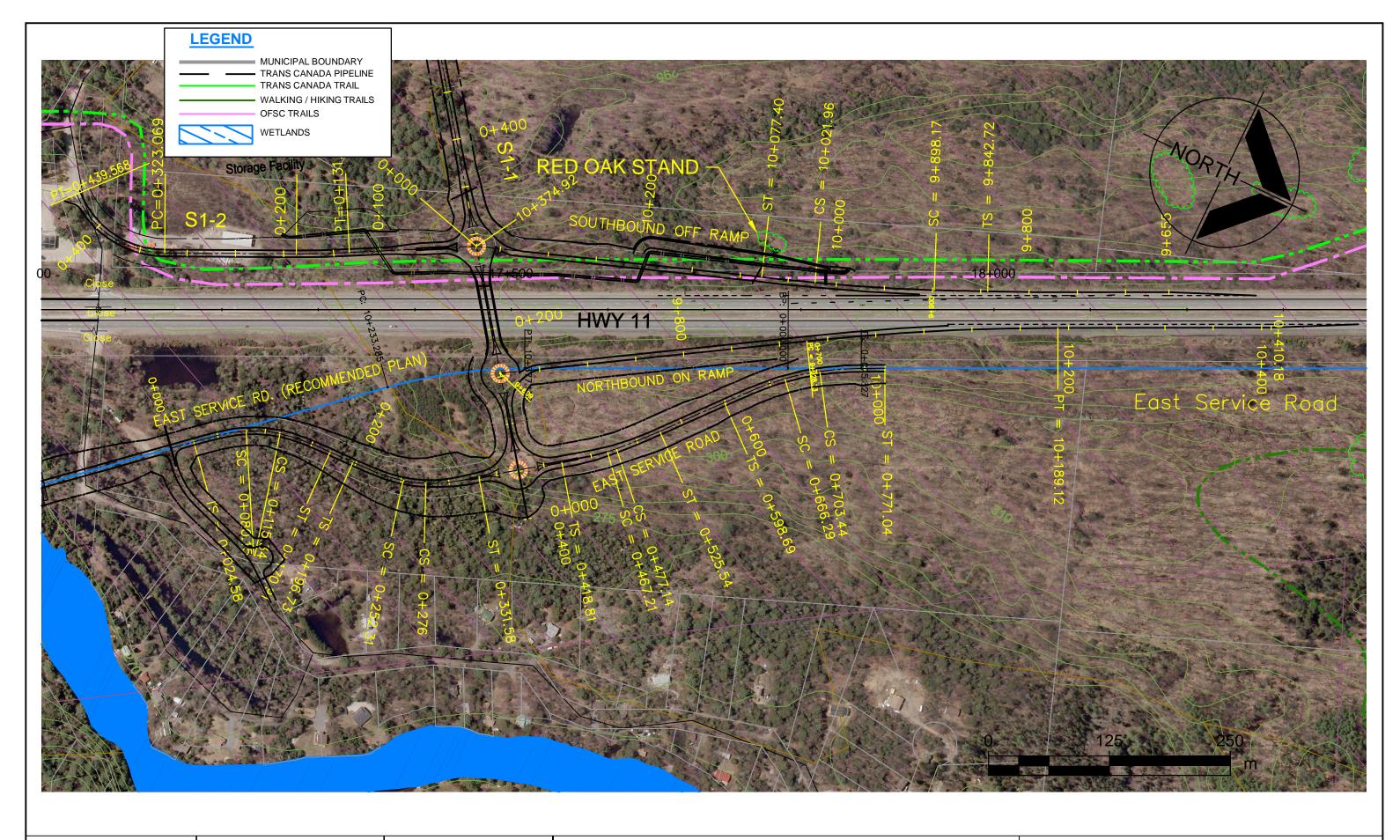














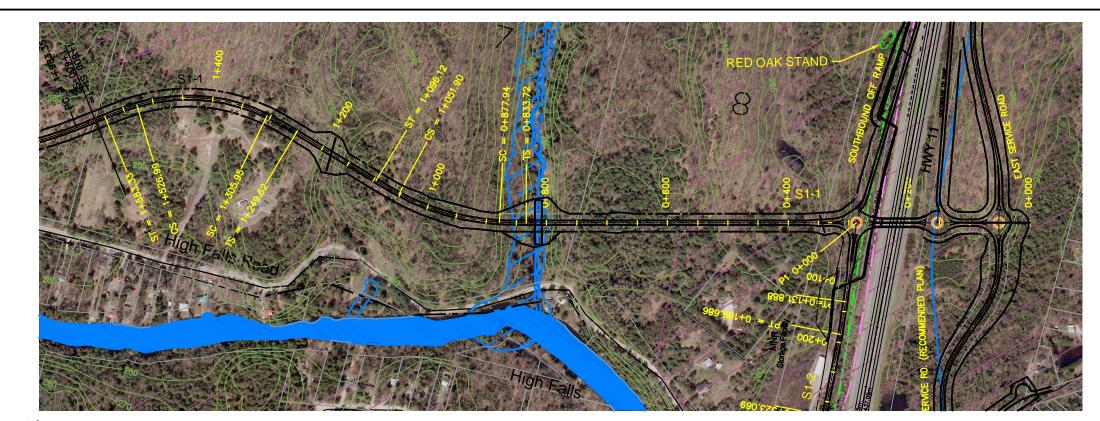


ALTERNATIVE S1 HWY 11 INTERCHANGE

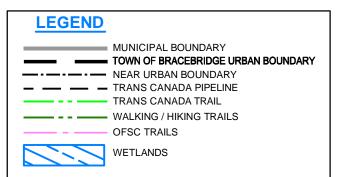
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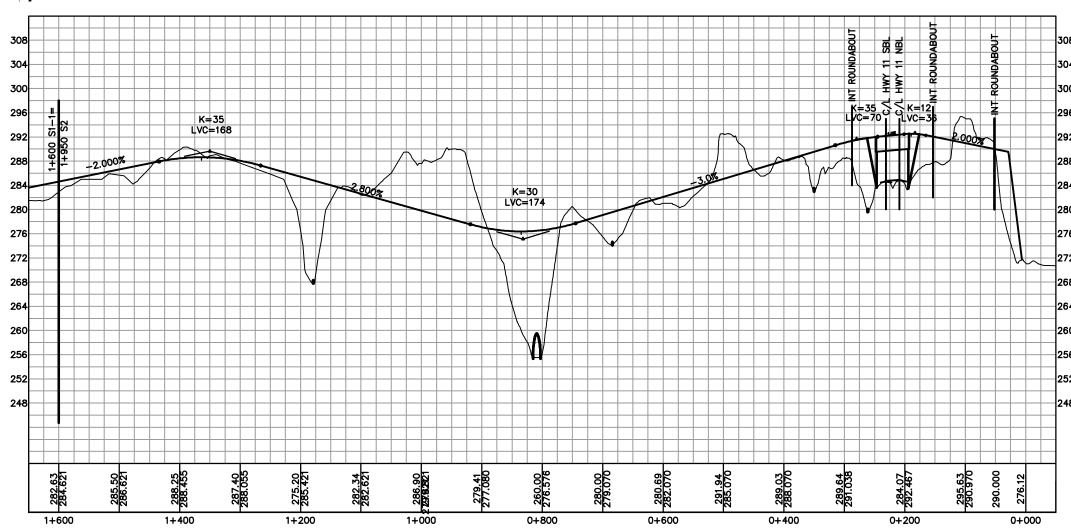
DATE: 12/14/12 PROJECT: 60241537 DWG:

SI-INT













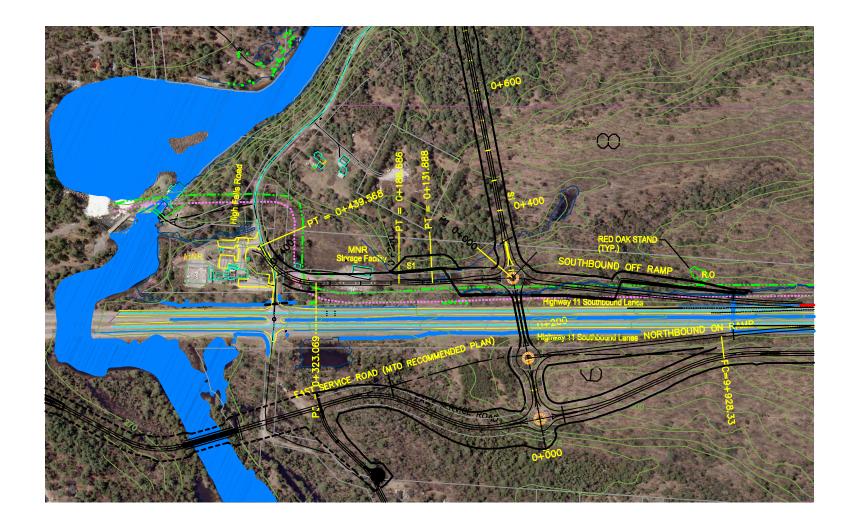


ALTERNATIVE S1 STA. 0+000 TO STA. 1+600

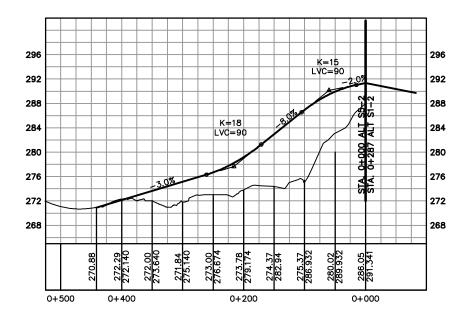
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G: **S1-1**



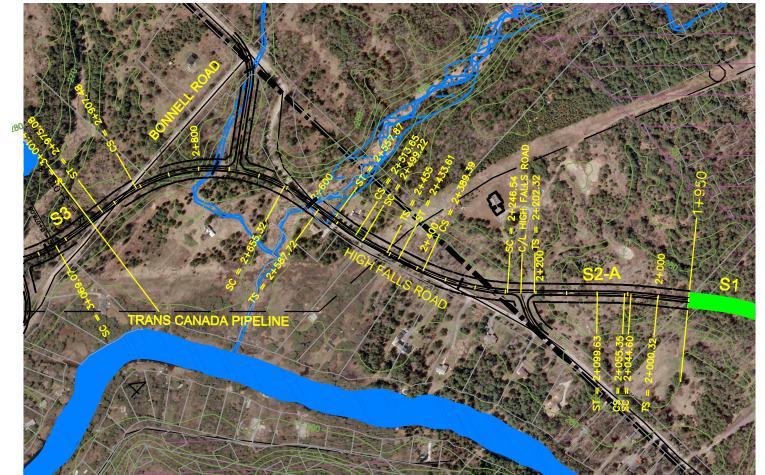


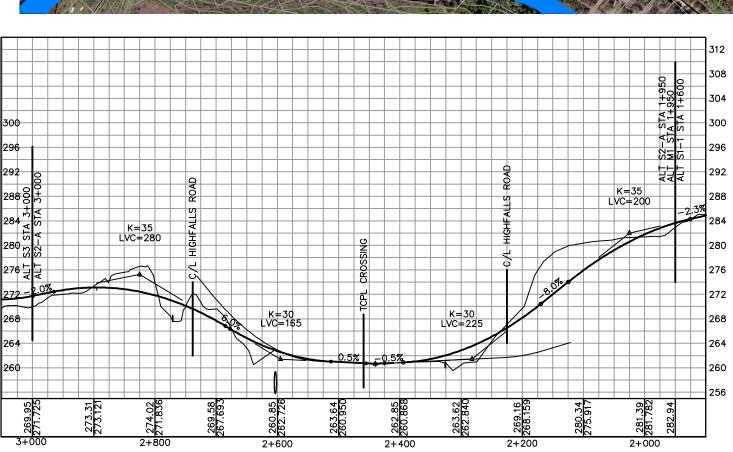
LEGEND MUNICIPAL BOUNDARY TOWN OF BRACEBRIDGE URBAN BOUNDARY NEAR URBAN BOUNDARY TRANS CANADA PIPELINE TRANS CANADA TRAIL — WALKING / HIKING TRAILS - - OFSC TRAILS WETLANDS

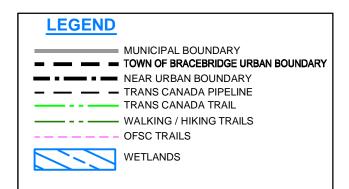






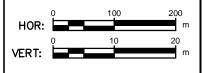




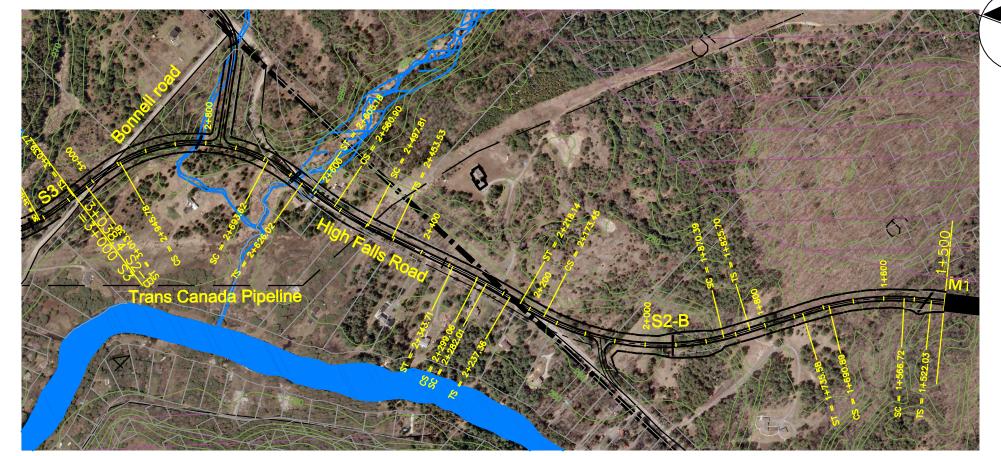






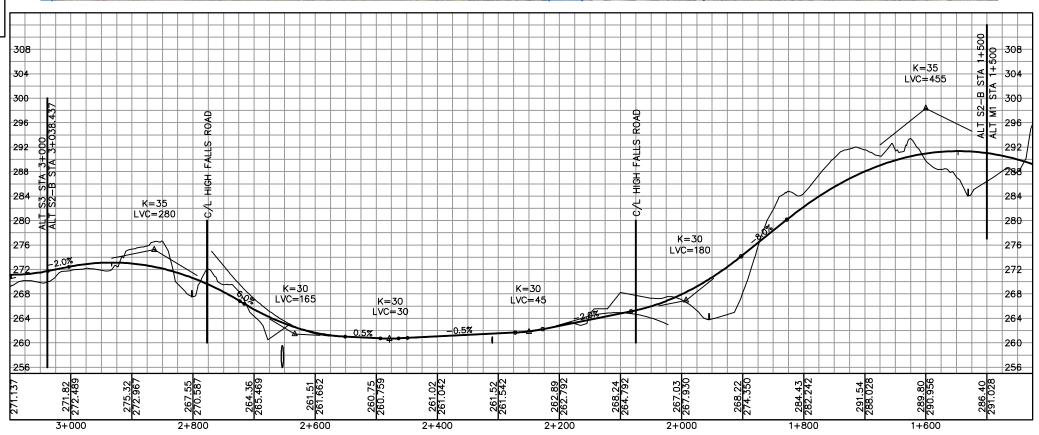


ALTERNATIVE S2-A STA. 1+950 TO STA. 3+000



LEGEND MUNICIPAL BOUNDARY TOWN OF BRACEBRIDGE URBAN BOUNDARY NEAR URBAN BOUNDARY TRANS CANADA PIPELINE TRANS CANADA TRAIL WALKING / HIKING TRAILS OFSC TRAILS

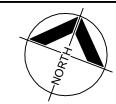
WETLANDS

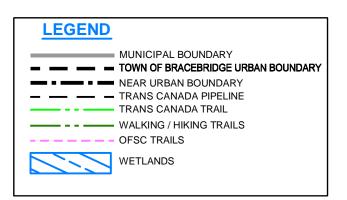


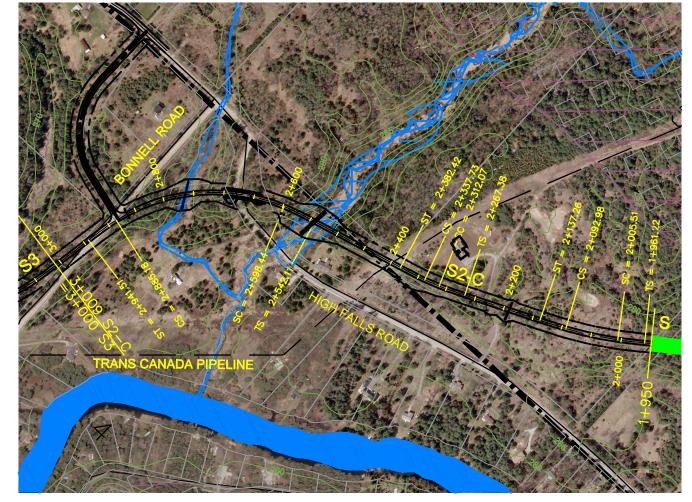


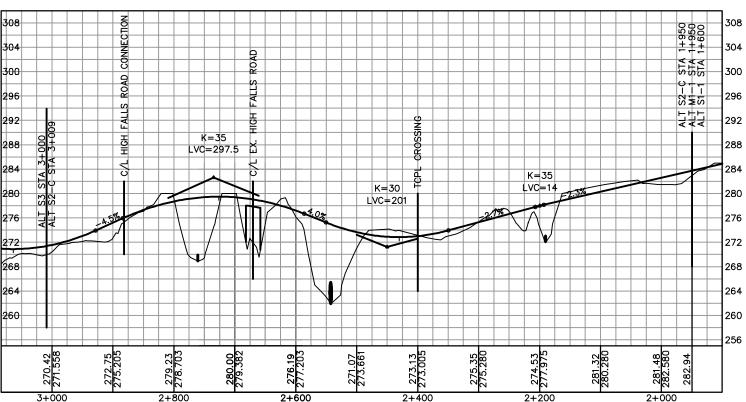










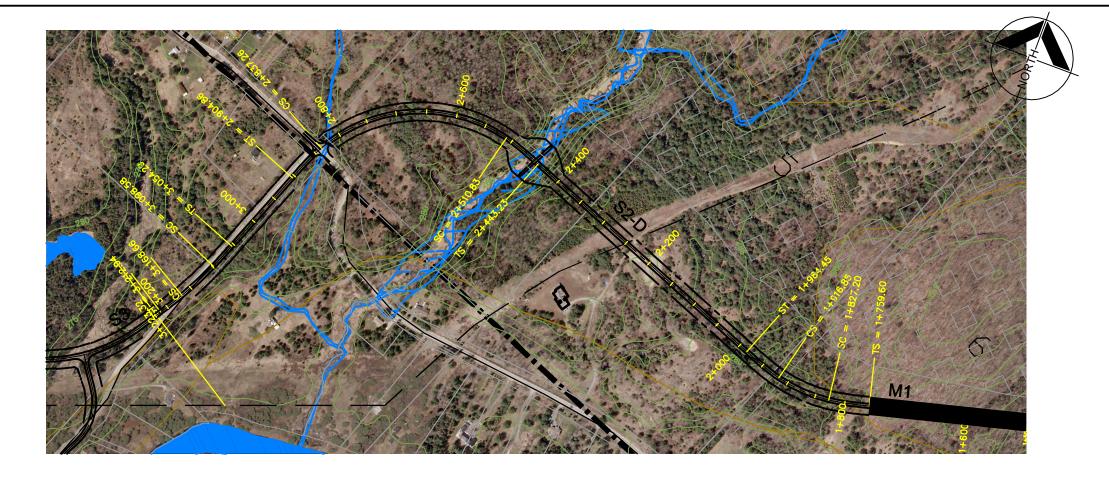




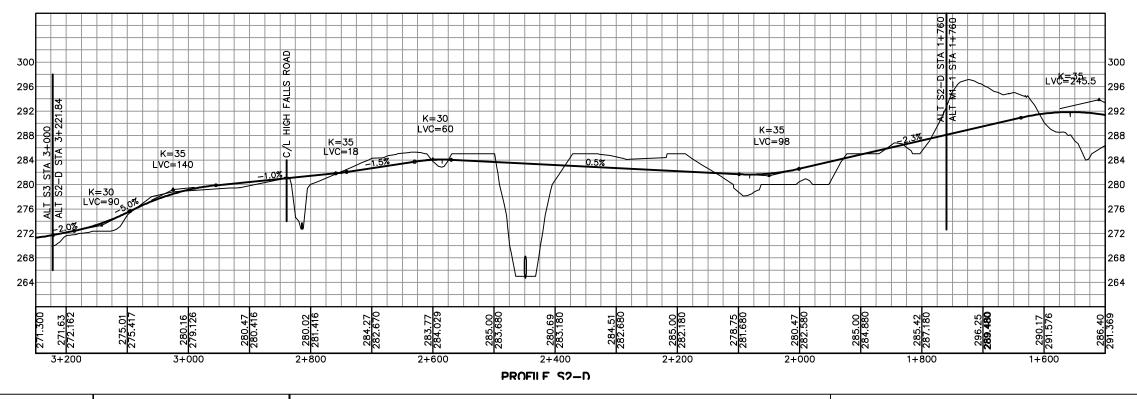




ALTERNATIVE S2-C STA. 1+950 TO STA. 1+600

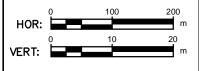


LEGEND MUNICIPAL BOUNDARY TOWN OF BRACEBRIDGE URBAN BOUNDARY NEAR URBAN BOUNDARY - TRANS CANADA PIPELINE TRANS CANADA TRAIL WALKING / HIKING TRAILS OFSC TRAILS WETLANDS



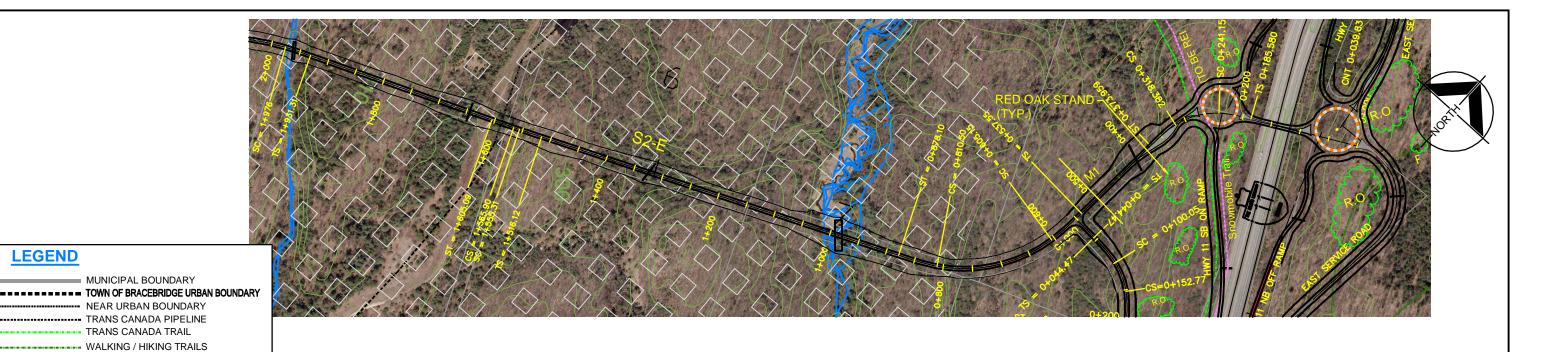


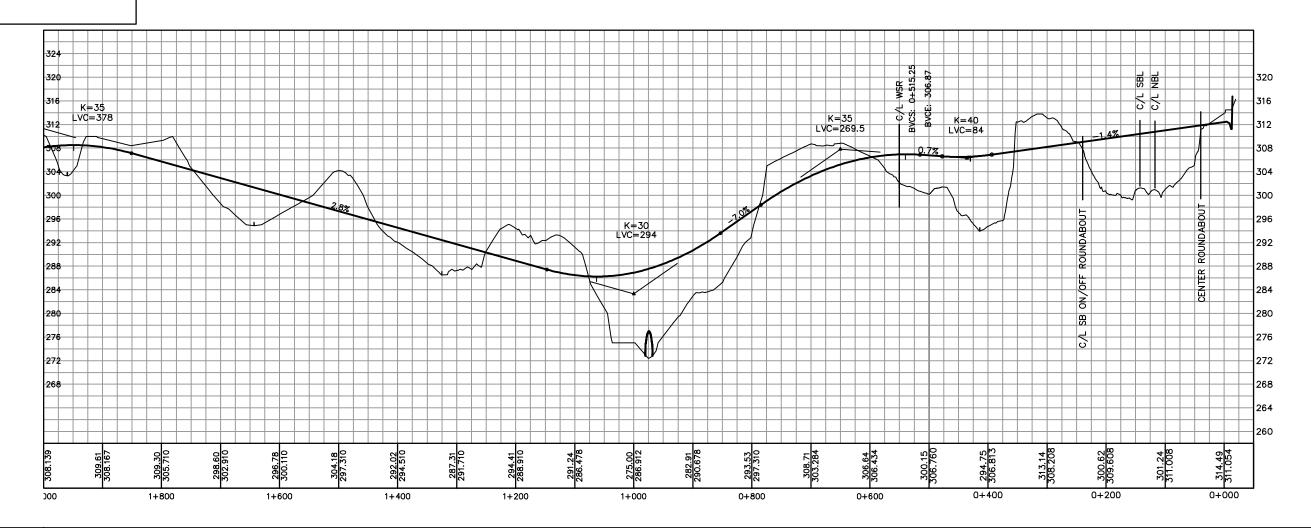




NORTHERN TRANSPORTATION CORRIDOR BRACEBRIDGE

ALTERNATIVE \$2-D STA. 1+760 TO STA. 3+2214.84



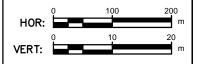


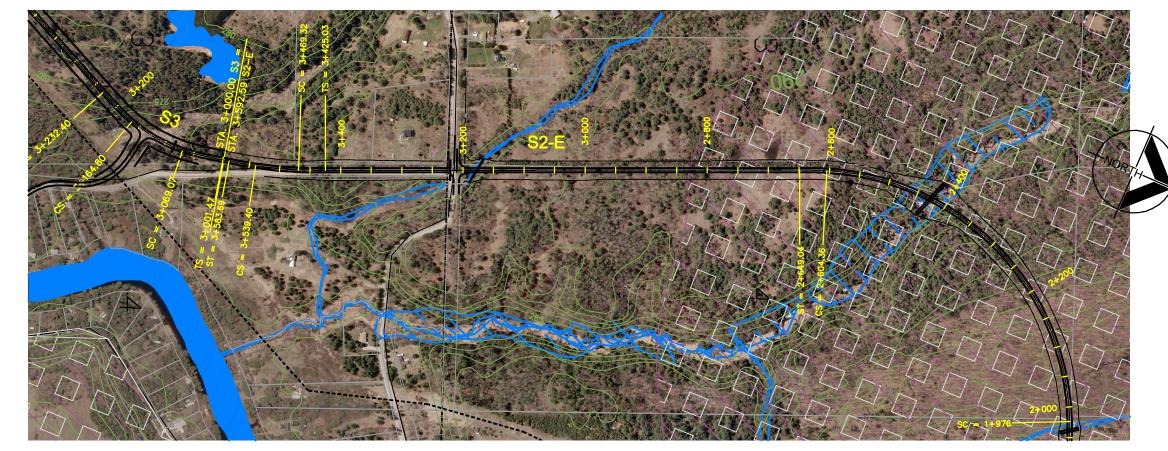


LEGEND

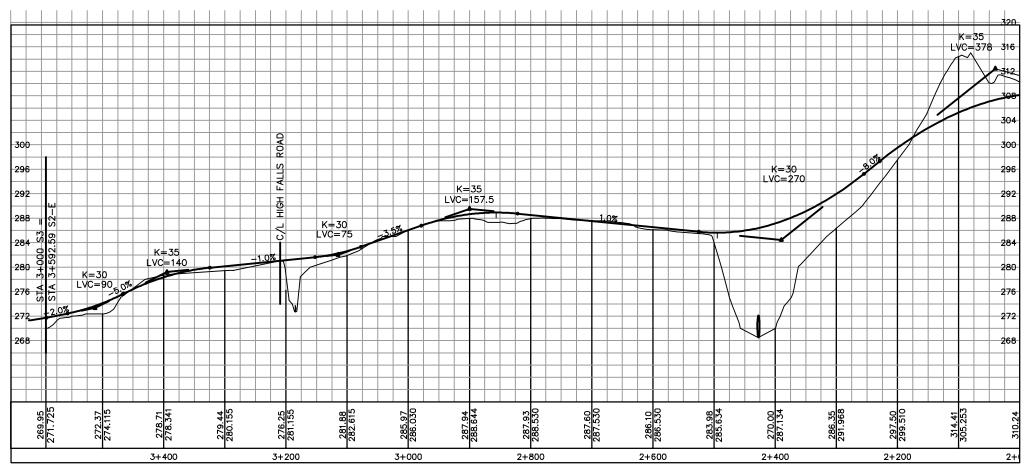
OFSC TRAILS WETLANDS







LEGEND MUNICIPAL BOUNDARY ----- TOWN OF BRACEBRIDGE URBAN BOUNDARY NEAR URBAN BOUNDARY ---- TRANS CANADA PIPELINE --- TRANS CANADA TRAIL WALKING / HIKING TRAILS OFSC TRAILS WETLANDS







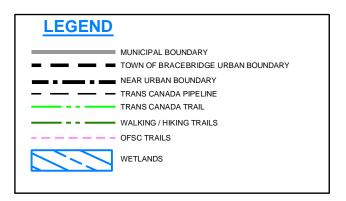


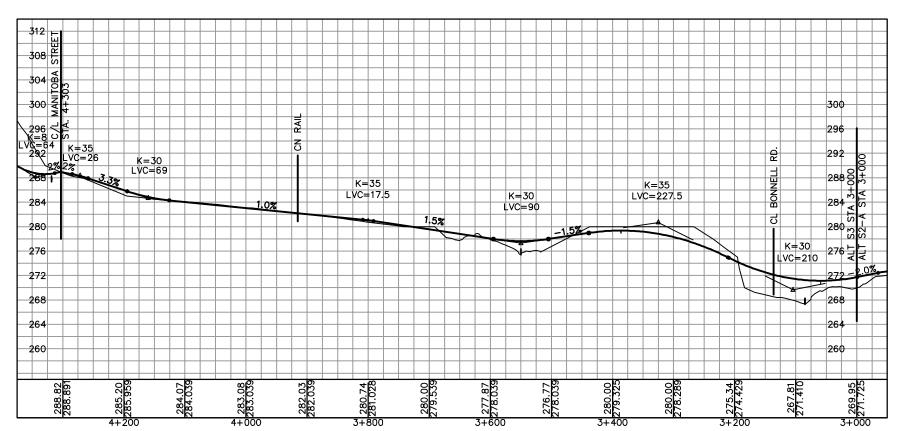
NORTHERN TRANSPORTATION CORRIDOR BRACEBRIDGE

ALTERNATIVE S2-E STA. 2+000 TO STA. 3+592.59









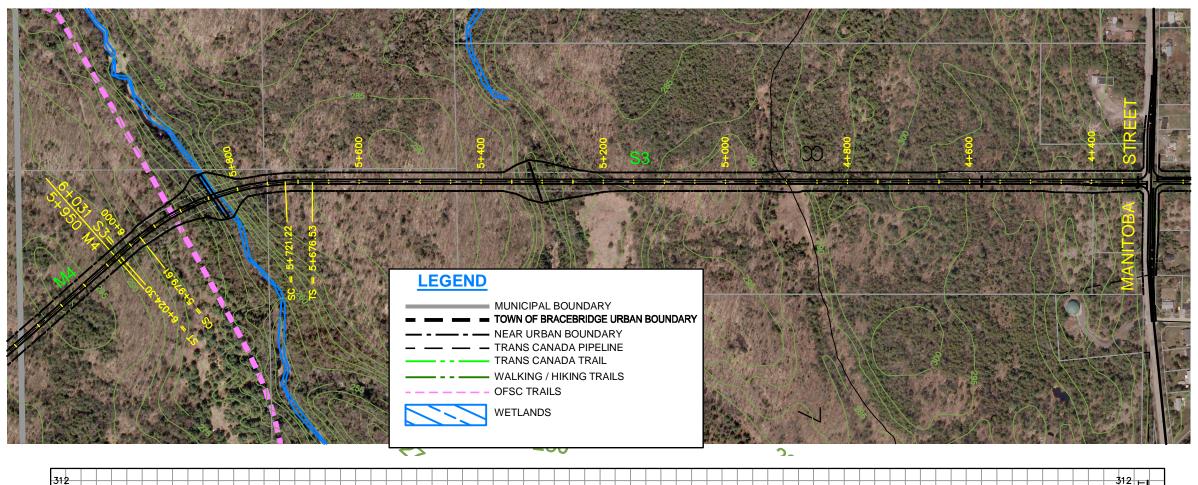


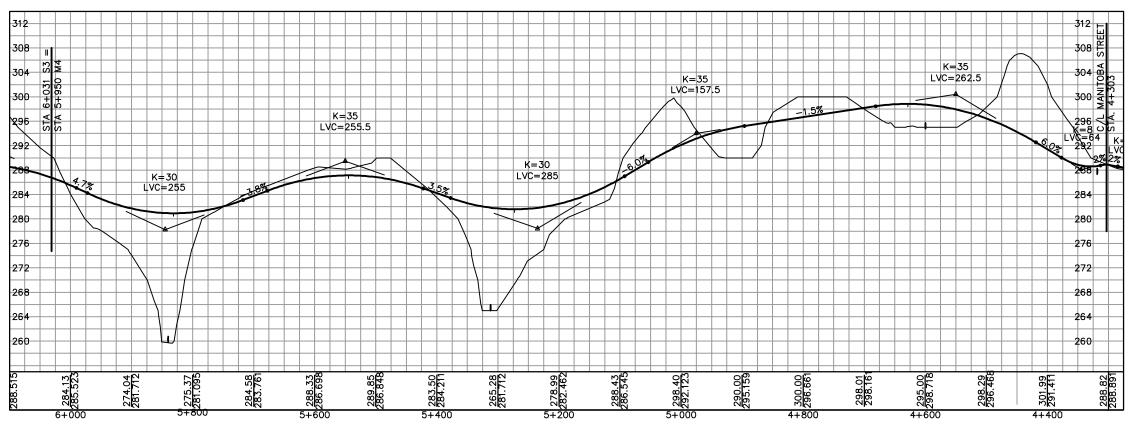




ALTERNATIVE S3 STA. 3+000 TO STA. 4+303





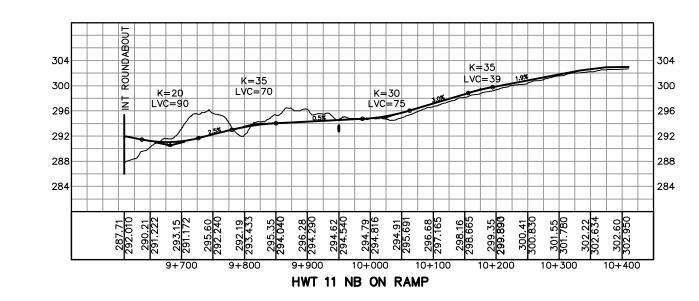


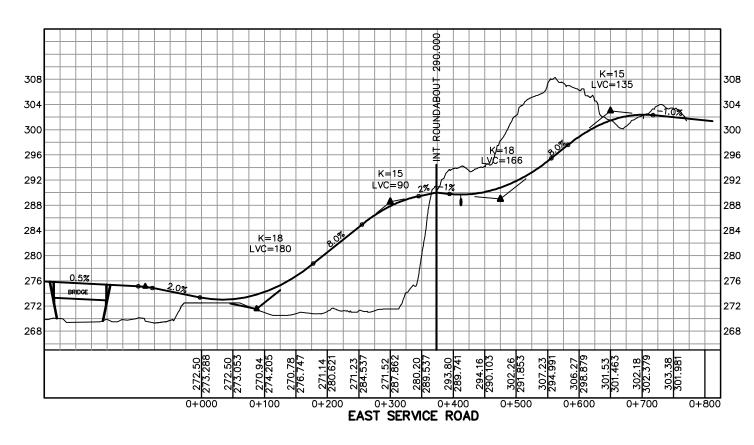


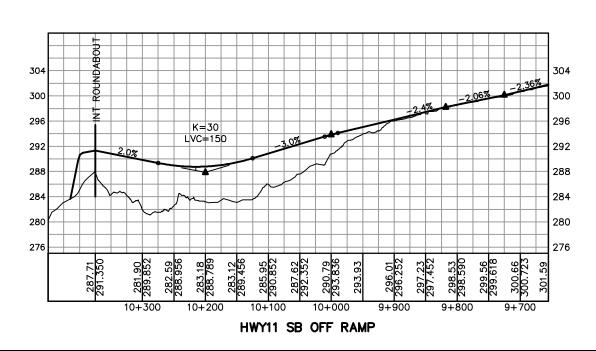




ALTERNATIVE S3 STA. 4+303 TO STA. 6+031







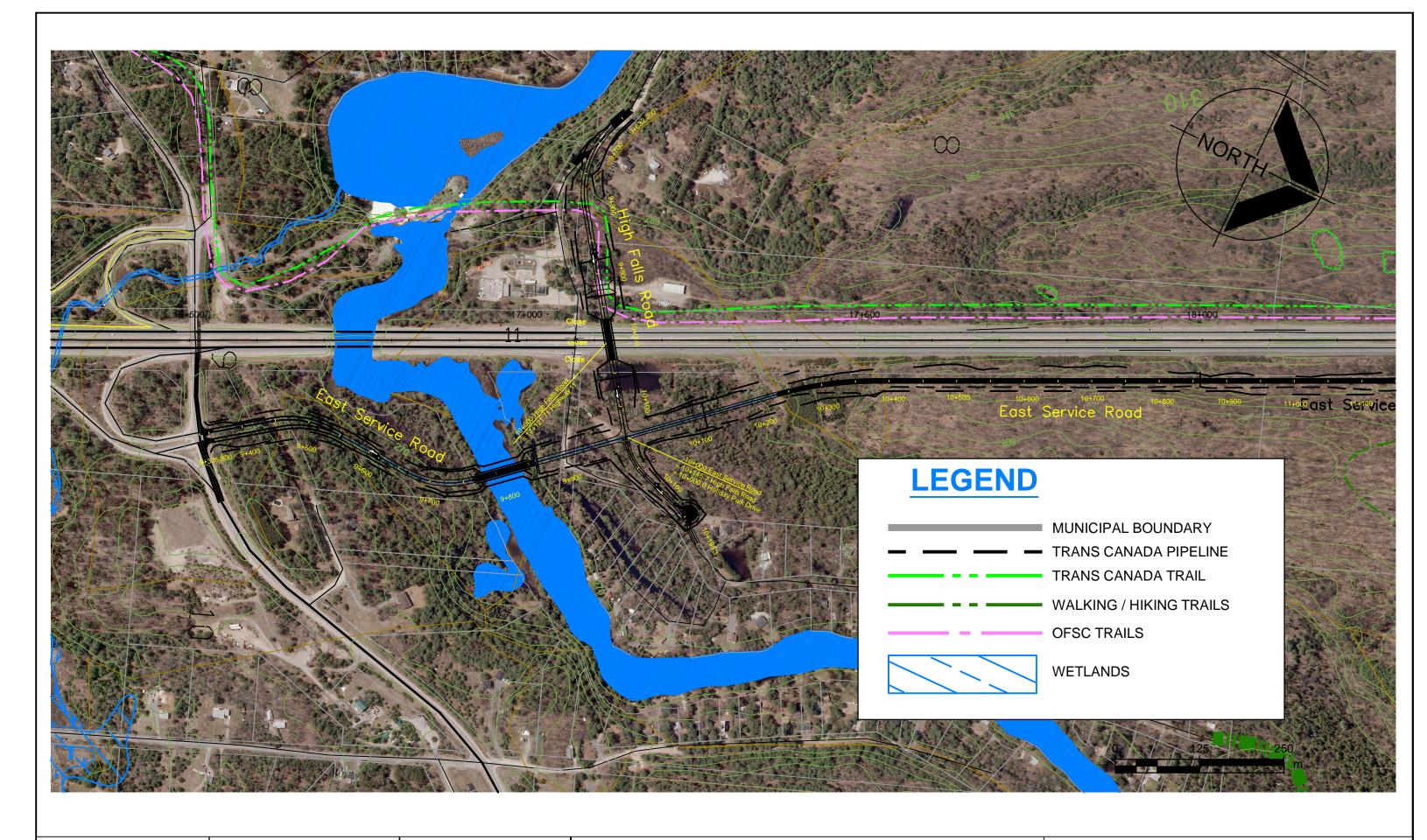






SOUTH ROUTE HWY 11 INT. PROFILES

SCALE: N.T.S. | DATE: 12/14/12 | PROJECT: 60241537 | DWG: S-IT-PRO



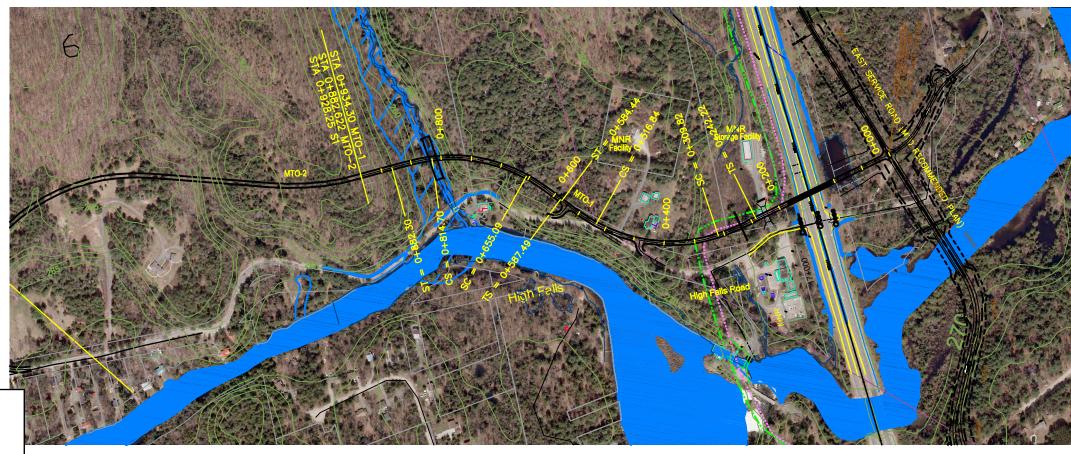




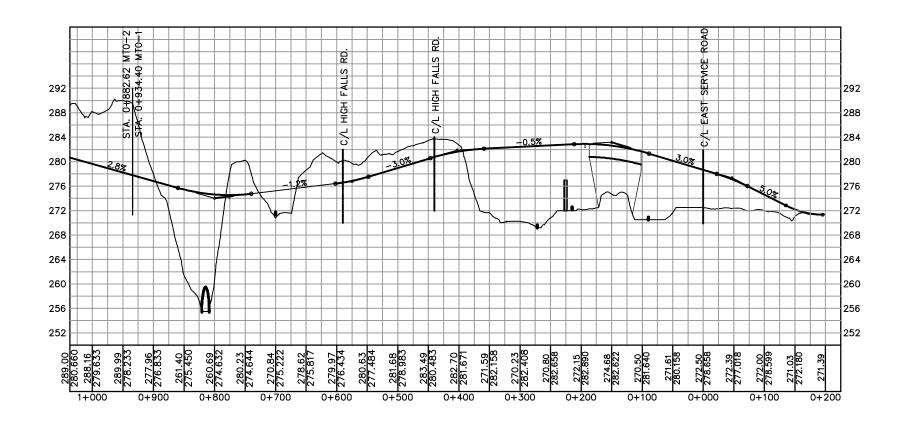
MTO ALTERNATIVE HWY 11 INTERCHANGE

SCALE: N.T.S.



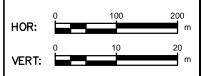


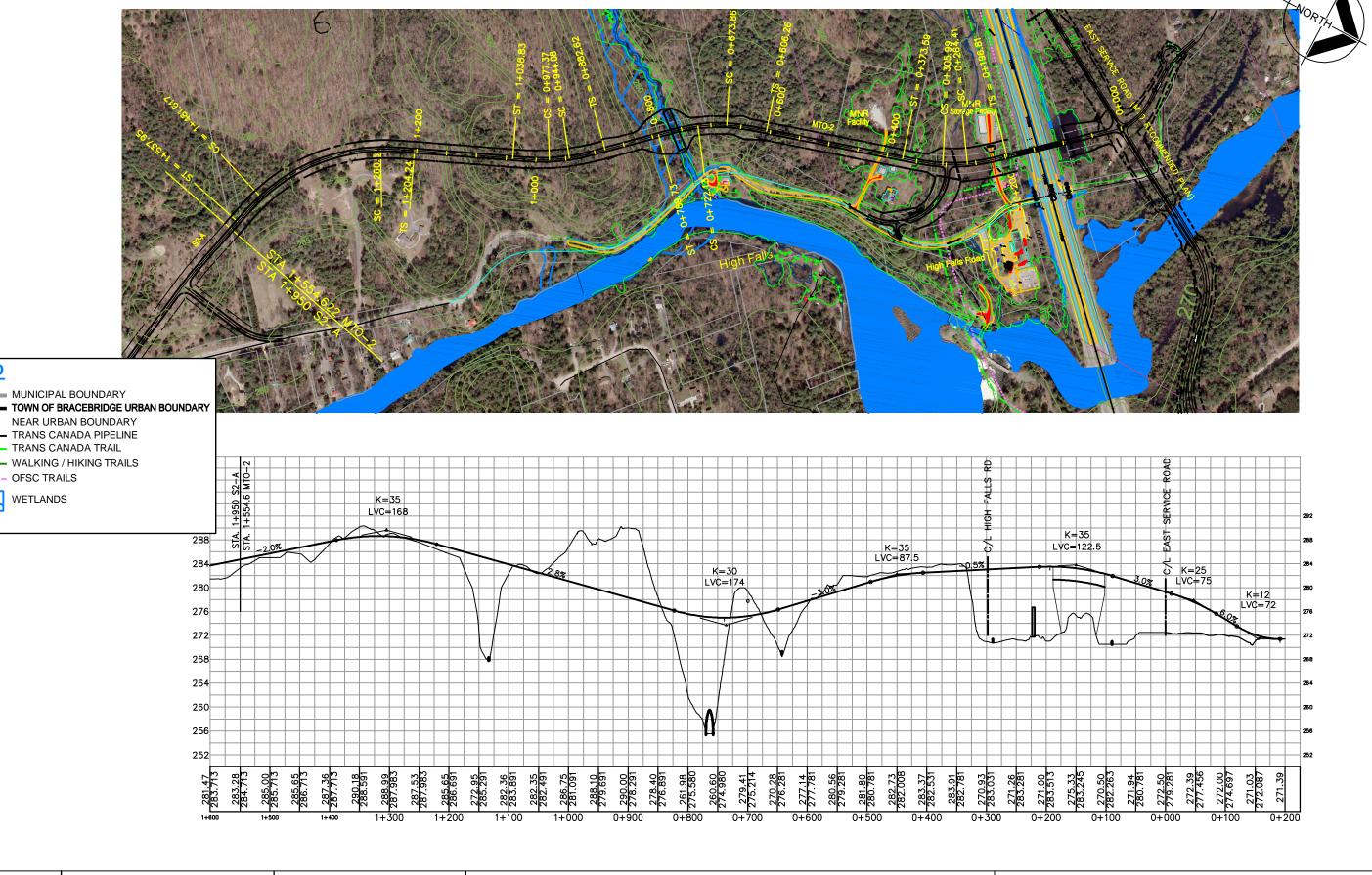
LEGEND WALKING / HIKING TRAILS













LEGEND

OFSC TRAILS

WETLANDS



