



PERMIT TO CONSTRUCT, USE, AND MAINTAIN WORKS WITHIN AND ACCESS TO A CONTROLLED ACCESS HIGHWAY

PURSUANT TO TRANSPORTATION ACT AND/OR THE INDUSTRIAL ROADS ACT AND/OR THE
MOTOR VEHICLE ACT AND/OR AS DEFINED IN THE NISGA'A FINAL AGREEMENT AND THE
NISGA'A FINAL AGREEMENT ACT.

BETWEEN:

The Minister of Transportation and Infrastructure

Rocky Mountain District
129 10th Avenue S
Cranbrook, BC V1C 2N1
Canada

("The Minister")

AND:

Foothills Pipe Lines (South B.C.) Ltd.
450 1st Street SW
Calgary, Alberta T2P 4K5
Canada

("The Permittee")

WHEREAS:

- A.** The Minister has the authority to grant permits for the auxiliary use of highway right of way, which authority is pursuant to both the Transportation Act and the Industrial Roads Act, the Motor Vehicle Act, as defined in the Nisga'a Final Agreement and the Nisga'a Final Agreement Act;
- B.** The Permittee has requested the Minister to issue a permit pursuant to this authority for the following purpose:

The installation, operation, and maintenance of access constructions and intersection improvements for the purpose of the Foothills Zone 8 West Path Deliver 2023 - British Columbia Mainline Loop No. 2. Elko Section at the following locations as shown on the attached drawings:

Intersection Improvements:

1. Highway 3 / Morrissey Rd (Access ID: 002 - Northing: 5472795 Easting: 643479) – **as per amended IFC drawing dated May 16 2022 01190-MCSL-G-DD-0087**

Works within Right of Way:

1. The construction of a gravel driveway to provide access to Lots 1-4, District Lot 2314 Kootenay District Plan EPP48650

Pipeline Construction Temporary Access for Locations referred to by Access ID:

1. 003 Morrissey Rd and Cokato Rd (Northing: 5472996 Easting: 644097)
Brushing and clearing of vegetation on the inside of the horizontal curve on Cokato Rd to improve the sight distance in both directions.
2. 001 Highway 3 / Corbin Rd (Northing: 5504214 Easting: 660932)
3. 201 Corbin Rd / Leach Rd FSR (Northing: 5493260 Easting: 659994)
Brushing and clearing of vegetation on the inside of the horizontal curve on Cokato Rd to improve the sight distance in both directions.
4. 202 Morrissey Rd / Morrissey FSR (Northing: 5470875 Easting: 64043)
5. 203 Morrissey Rd / Lodgepole FSR (Northing: 5470684 Easting: 645853)
Brushing and clearing of vegetation to improve the sight distance looking south from the access.
6. 203b Morrissey Rd / Lodgepole FSR (Northing: 540447 Easting: 646313)



Brushing and clearing of vegetation to improve the sight distance in both directions from the access.

7. 213 Corbin Road / Private Access (Northing: 5500293 Easting: 659900)
8. 217 Fernie Coal Road (Northing: 5484541 Easting: 642266)
9. 218 Fernie Coal Road (Northing: 5485252 Easting: 650923)

Ancillary Sites:

The installation, operation, and maintenance of four accesses, referred to as ancillary sites for Foothills Zone 8 West Path Delivery 2023 - British Columbia Mainline Loop No. 2 Elko Section described as such:

The operation and use of existing access labelled North 203 on Morrissey Road for the purpose of accessing EM-004 explosive magazine storage site. Access operation authorized for approximately 5 to 6 light duty vehicles daily and approximately one larger vehicle (i.e. 10 ton body job) bi-weekly to allow for the drop off of materials. Traffic control through the use of a pilot car and radio contact with the operators is to be in place whenever explosives are leaving or entering site. (Northing: 5470684 Easting: 64582)

The installation, operation, and maintenance of a temporary accesses labelled:

1. 221 on Cokato Road for the purpose of exiting E-022 pipe stockpile yard. (Northing: 5475399 Easting: 643328)
 2. 222 on Cokato Road for the purpose of entering E-022 pipe stockpile yard. (Northing: 5475162 Easting: 643424)
 3. 223 on Morrissey Road to E-018 parking/staging area. (Northing: 5472929 Easting: 644142)
- Access 223 will be decommissioned with a berm to restrict future use of staging area.

Scope of Works:

Intersection improvements for the West Path Project will include but not be limited to environmental protection (ie. erosion and sediment control), installation of temporary traffic control required to complete works, clearing & grubbing, stripping of organic materials, removal of existing asphalt, excavation and road embankment construction, ditching, placement/compaction of road gravels and paving, culvert installations/extensions, riprap installation, signage installations/relocation, utility relocations, road pavement markings, placement of topsoil and seeding.

Some limited clearing and grubbing, and brushing can be expected at each location to accommodate the intersection's upgrades, footprints or to improve sight distances for safe operation of the intersections.

The location and extent of all improvements as shown on the attached drawings – **amended May 2022**.

C. The Minister is prepared to issue a permit on certain terms and conditions;

ACCORDINGLY, the Minister hereby grants to the Permittee a permit for the Use (as hereinafter defined) of highway right of way on the following terms and conditions:

1. The Minister shall designate an official ("the Designated Ministry Official") who shall act as the Minister's agent in the administration of this permit in the manner hereinafter set out.
2. That the construction and maintenance of the said works is carried out to the satisfaction of the Regional Executive Director.
3. That, before opening up any highway or interfering with any public work, intimation in writing of the intention to do so must be given to the District Official at least seven days before the work is begun.
4. That any person appointed by the Regional Executive Director for the purpose shall have free access to all parts of the works for the purpose of inspecting the same.
5. That the construction of the said works shall be prosecuted with due diligence and to the satisfaction of the Regional Executive Director and shall be completed on or before the December 31, 2022. A works extension may be granted upon written request no later than 30 days prior to the expiration date.
6. (a) The highway must at all times be kept open to traffic. The roadway must be completely restored for traffic as soon as possible. At all times the permittee must safeguard the traveling public.
(b) That, unless with the consent of the Regional Executive Director no more than forty-five (45) metres of pipe-track or other excavation in any public highway is to be kept open at one time.
(c) All excavation work must be carried out in accordance with the BC Occupational Health and Safety Regulation. Care shall be taken to protect adjacent property.
(d) That all excavations shall be carefully back-filled with suitable material, which is to be tamped into place, and that the permittee shall restore the surface of the road and shoulders and ditches at their own expense. All surplus material is to be removed from the Provincial Crown lands, or deposited where and as required by the District Official of the Ministry of



Transportation and Infrastructure. The permittee is financially responsible for any maintenance works required on said ditch for a period of one year. The Ministry will carry out the necessary remedial work and invoice the permittee monthly.

(e) The pipeline crossing installation is to be placed by drilling and (or) jacking in such a manner as to afford minimum grade settlement. No water jetting will be permitted. That where, in the opinion of the District Official, an excavation or opening for a pipeline crossing installation could be made which would not be detrimental to the highway or its users, permission will be granted for said works. On throughways, freeways, and main highways no open cuts will be allowed.

(f) That all pipelines in excess of a nominal diameter of 5 cm., whether gas, oil, water, pressure sewers, conduits, etc., shall be installed where indicated by the District Official, encased in a steel casing-pipe or conduit-pipe of sufficient strength to withstand all stresses and strains resulting from the location, such casing to extend the full width of the highway right-of-way if deemed necessary to the District Official. The ends of the casing-pipe shall be suitably sealed and, if required, properly vented above the ground with vent-pipes not less than 5 cm. in diameter, and extending not less than 1.2 metres above ground surface. Vent-pipes shall be connected 30 cm. from the ends of the casing-pipe, and the top of each vent shall be fitted with a turn-down elbow, properly screened and equipped with identification markers.

All pipelines of non-rigid material, i.e., plastic or copper, of any diameter, shall be cased, or embedded in sand.

The inside diameter of the casing-pipe shall be at least 25 percent larger than the outside diameter of the pipeline. The casing-pipe shall be installed with an even bearing throughout its length, and in such a manner so as to prevent leakage, except through the vents.

The top of the casing-pipe, or the pipeline where casing is not required, shall be located as directed by the District Official, and shall in no case be less than 1.2 metres below the surface of the highway and not less than 75 cm below the highway ditches. Pipelines must not obstruct drainage structures or ditches or interfere with traffic on the highway or with highway maintenance.

7. That where the work for which permission is hereby granted comes in contact with any bridge, culvert, ditch, or other existing work, such existing work must be properly maintained and supported in such manner as not to interfere with its proper function during the construction of the new work, and on the completion of the new work the bridge, culvert, ditch, or other existing work interfered with shall be completely restored to its original good condition.
8. That the permission herein granted to use and maintain the works is only granted for such times as the land or public work in, upon, or over which the said works are constructed is under the jurisdiction of the Minister of Transportation and Infrastructure. This permission is not to be construed as being granted for all time, and shall not be deemed to vest in the permittee any right, title or interest whatsoever in or to the lands upon which the works are constructed. Should the lands affected at any time be included within that of an incorporated municipality or city, this permission shall become void, unless the works are on a highway duly classified as an arterial highway pursuant to Section 45 of the Transportation Act.
9. That when necessary all excavations, materials, or other obstructions are to be efficiently fenced, lit, and watched, and at all times every possible precaution is to be taken to ensure the safety of the public.
10. That while reasonable care will be taken on the part of the Provincial Government to do as little damage as possible to any private work in the carrying-out of the construction, extension, alterations, improvement, repair, or maintenance of any public work adjacent thereto, the Provincial Government can accept no responsibility for any kind of such damage.
11. That after receiving notice in writing of the intention on the part of the Provincial Government to construct, extend, alter, or improve any public work, the person or persons responsible for the maintenance of the works for which permission is hereby granted shall within six weeks move or alter such work at their own expense to such new positions or in such manner as may be necessitated by the construction, extension, alteration, or improvement proposed to be carried out by the Provincial Government.
12. That the permission hereby granted to construct, use, and maintain work is granted without prejudice to the provisions of the Transportation Act, or other Acts governing Crown lands and public works or their use by the public.
13. That this permission shall be in force only during such time as the said works are operated and maintained by the Permittee, to the entire satisfaction of the Regional Executive Director.
14. That the Ministry will not be responsible for grade changes on accesses caused by reconstruction of any Provincial highway.
15. This permit is valid only for the specific works stated herein. Any alterations or additions must be covered by a separate permit.
16. This permit may be canceled, at the discretion of the Minister, without recourse, should the permittee fail to comply with all the terms of the permit. Thirty days notice will be given before cancellation.
17. When the requirements of the Ministry necessitate use of the said lands for Provincial purposes, at the discretion of the Minister, this permit may be cancelled.
18. That these works shall be identified with this permit number in a manner satisfactory to the District Official of the Ministry of Transportation and Infrastructure.
19. The Use shall be carried out according to the reasonable satisfaction of the Designated Ministry Official.



20. The Permittee shall indemnify and save harmless the Ministry, its agents and employees, from and against all claims, liabilities, demands, losses, damages, costs and expenses, fines, penalties, assessments and levies made against or incurred, suffered or sustained by the Ministry, its agents and employees, or any of them at any time or times, whether before or after the expiration or termination of this permit, where the same or any of them are based upon or arise out of or from anything done or omitted to be done by the Permittee, its employees, agents or Subcontractors, in connection with the permit.
21. The Permittee shall make diligent attempts to determine if there are other users of the right of way in the vicinity of the Permittee's location whose use may be affected. It shall be the responsibility of the Permittee to contact any such users before exercising any of the rights granted hereunder and to attempt to reach an accommodation.
22. The Minister shall take reasonable care to do as little damage or interference, as possible, to any Use authorized by this permit in the carrying out of the construction, extension, alteration improvement, repair, maintenance or operation of any work adjacent thereto, but the Minister shall not be responsible for any damage regardless.
23. The Minister at the absolute discretion of the Minister may, at any time, cancel this permit for any reason upon giving reasonable notice; provided, however, that in the case of default by the Permittee or in the case of an emergency no notice shall be necessary. The Minister shall not be liable for any loss incurred as a result of permit cancellation.
24. Placing of speed arresters on the access (or accesses) or in the Permittee's property without the prior consent in writing of the Designated Ministry Official shall render the permit void.
25. The Permittee shall be responsible for replacing any survey monuments that may be disturbed or destroyed by the Use. Replacement must be by a British Columbia land surveyor at the Permittee's expense.
26. The Permittee shall remove any mud, soil, debris, or other foreign material tracked onto the highway from the access authorized herein. Such removal shall be at the Permittee's expense and shall be done at any time the material unduly inconveniences traffic and, in any event, daily.
27. The Permittee acknowledges that the issuance of this permit by the Minister is not a representation by the Minister that this permit is the only authority needed to carry out the Use. The Permittee shall give deference to any prior permission given for use of the right of way in the vicinity of the permit area, shall obtain any other permission required by law, and shall comply with all applicable laws regardless of their legislative origin.
28. At the end of the term of this permit, or when the permit is cancelled or abandoned, the Permittee shall, if so requested by the Minister, remove all installations and shall leave the site as near as reasonably possible in the condition it was in before this permit was issued or such other condition as shall reasonably be required by the Designated Ministry Official. If the Permittee refuses to comply with these obligations, the Minister may perform them as required and the Permittee shall be liable to the Minister for the costs of doing so.
29. The rights granted to the Permittee in this permit are not assignable without the consent of the Minister.
30. As a condition of this permit, the permittee unconditionally agrees with the Ministry of Transportation and Infrastructure that the permittee is the prime contractor or will appoint a qualified prime contractor, as described in Section 118 of the Workers Compensation Act, for the purposes of the work described by this permit, at the work location described in this permit, and that the permittee or designated prime contractor will observe and perform all of the duties and obligations which fall to be discharged by the prime contractor pursuant to the Workers Compensation Act and the Occupational Health and Safety Regulation.
31. The permittee is advised and acknowledges that the following hazards may be present at the work location and need to be considered in co-ordinating site safety: overhead hazards, particularly electrical or telecommunications lines; buried utilities, particularly electrical, telecommunication, and gas lines; traffic, danger trees, falling rocks, and sharp or infectious litter.
32. Any works within the Ministry right-of-way that fall within the scope of "engineering" under the Engineers and Geoscientists Act will be performed by a Professional Engineer, and shall comply with this Ministry's "Engineer of Record and Field Review Guidelines". The Guidelines can be viewed on the Ministry's website at <http://www2.gov.bc.ca/assets/gov/driving-and-transportation/transportation-infrastructure/engineering-standards-and-guidelines/technical-circulars/2009/t06-09.pdf>
33. The permittee is responsible for preventing the introduction and spread of noxious weeds on the highway right-of-way as defined by the British Columbia Weed Control Act and Weed Control Regulation.
34. The Use shall be carried out according to the drawings and specifications, which are attached and shall be considered to be part of this permit.
35. (a) The rights granted under this permit shall not be exercised before August 23, 2021.
(b) The Construction and Installations must be completed on or before October 31, 2023.
36. The rights granted under this permit and certificate are temporary and will expire on October 31, 2023
37. The Permittee must contact the Maintenance Contractor, Mainroad East Kootenay Contracting LP at 1-800-665-4929 at least 48 hours prior to works.



38. The TC Energy Field Representative is Sean Magee, Land Integrity Technician contactable at sean_magee@tcenergy.com or 250-420-2954
39. This permit is for work within highway right of way only and the Permittee is responsible for ensuring that all works are contained to the highway right of way.
40. Permittee is responsible for all future maintenance of the work for the duration of permit. This permit is not transferable and valid only for the Permittee.
41. Permittee will be responsible to notify and gain approval of utility companies in advance of works.
42. The Permittee is to submit As Built Design Drawings to the Designated Ministry Official within one month of completion of the work.
43. The layouts shown on the attached drawings are a condition of this permit, and any change in layout without the prior consent in writing of the Designated Ministry Official shall render the permit void.
Access Geometry Drawing No's: M-1, M-2, N-1, N-2
IFC drawing dated May 16, 2022 01190-MCSL-G-DD-0087
44. No storage or staging of equipment within highway right of way or gravel reserves.
45. Installation (or removal) of the works shall not occur during hours of darkness or during periods of severe weather.
The Permittee must ensure that all works are safely visible to traffic and appropriate measures are in place as per the current Traffic Control Manual for Work on Roadways.
The public road must be clear of any equipment or activity that may impede winter road maintenance on Ministry maintained roads during winter snowstorms.
46. The Permittee shall take all reasonable precautions to attempt to ensure the safety of the public in connection with the Use. In particular, but not so as to limit this obligation, the Permittee shall, if so required by the Designated Ministry Official on reasonable grounds, prepare and implement a traffic control plan. The contents of the plan and the manner in which it is implemented must meet the reasonable satisfaction of the Designated Ministry Official.
47. The Permittee shall, at their cost, supply, erect, and maintain standard traffic control devices in accordance with the Ministry of Transportation and Infrastructure Traffic Management Manual for Work on Roadways and Occupational Health and Safety Regulation.
The implementation of Traffic Management Plans listed below are to manage traffic disruptions during road works, access construction and to manage the peak hour traffic flows as necessary during access use:
Site 201 Corbin Rd and Leach Road FSR (Doc #01190-MCSL-G-DD-0046)
Site 203 Private Access (Doc #01190-MCSL-G-DD-0047) - To manage truck turning movements, single lane traffic on the access, and large trucks at the access during train crossings.
The Implementation of Traffic Management Plans along a Controlled Access Highway require prior approval from the District Manager of Transportation for
Site 001 Corbin Road and Hwy 3 (Doc #01190-MCSL-G-DD-0050)
Site 002 Morrissey Road and Hwy 3 (Doc #01190-MCSL-G-DD-0045)
48. The Permittee shall, at their cost, supply, erect, and maintain signs as required by the Designated District Official to be erected either side of the accesses in accordance with the Ministry of Transportation and Infrastructure Manual of Standard Traffic Signs and Pavement Markings:
001 Highway 3: Install call-in, and access identification signage during access use.
002 Highway 3: Install call-in, and access identification signage during access use.
A W-041-1 "Slippery Surface" sign with W-041-1Td "Slippery When Frosty" tab shall be installed on Highway 3 in both directions approximately 105m from the Morrissey Road intersection.
003 Morrissey Rd: Install stop sign on access approach.
Install call-in, and access identification signage during access use.
201 Corbin Rd: Install stop and railway crossing sign on minor to remain in place following access use.
Install truck turning, call-in, and access identification signage during access use 235m from both approaches to access.



203 Morrissey Road: Replace existing stop sign and truck turning sign.

Install call-in sign and access identification signage during access use.

203b Morrissey Road: Install yield sign on minor road.

Install call-in, and access identification signage during access use 200m from both approaches to access.

213 Corbin Rd: Install truck turning, call-in, and access identification signage during access use 235m from both approaches to Access.

Ancillary Site 221 Install the following signage:

R-009-2 Do Not Enter Sign at the access facing Cokato Road

Stop sign facing traffic exiting the access

W-317-R Truck Turning sign 200m north of Site 221 for southbound traffic

Ancillary Site 222 Install the following signage:

R-009-2 Do Not Enter Sign at the access facing the stockpile site

W-317-L sign 200m south of Site 222 for northbound traffic

49. The Permittee shall ensure all equipment working on, or hauling material onto and from the site, does not damage or deposit material onto any part of an existing road or right of way. Materials spilled onto the public road right of way or driveways opened to public traffic shall be cleaned up immediately. The Permittee has the full responsibility to repair any damage to existing highways, local roads, driveways, and environmental media (i.e. soil, groundwater, sediment, soil vapour, surface water) caused by its construction equipment and/or operations pursuant to BC's Environmental Management Act.
50. Permittee is responsible for the supply of all labour, equipment, and materials in connection with the work.
51. The profile of the access (or accesses) shall not exceed 2% grade from the ditchline for a distance of at least 15 metres as measured away from the highway along the centerline of the access.
52. Where the Ministry and a regulator both set a standard or requirement in an area, the highest or most stringent of the two will apply to any installation on highway right of way.
53. In accordance with Sections 000.03 Non-Ministry Developments on Ministry Land or That are Intended to Become Ministry Assets and 165.20 Archaeological and Paleontological Discoveries of the Design Build Standard Specification for Highway Construction - In the event that any item of archaeological, heritage, historical, cultural or scientific interest is found on the project site, the following Chance Find Procedure shall apply:

Such item(s) shall remain the property of the Province and the Permittee shall, on making or being advised of such a find, immediately cease operations in the affected area, minimize activities which create ground disturbance in and adjacent to the affected area, and notify the District Official and the Archaeology Branch of the British Columbia Ministry of Forests, Lands, Natural Resource Operations and Rural Development. Work shall not resume within 30 m of the discovery site until an appropriate directive has been received from that agency.

To protect archaeological and paleontological sites that are situated within or adjacent to a project site, the Permittee may be required to use a variety of mitigative measures, including but not limited to drainage or erosion control, slope stabilization measures, or erecting fences or other suitable barriers to protect archaeological or paleontological sites that are situated within or adjacent to a project site. These measures, with any negotiated extensions of time for completion of the Works they require, will be determined and adopted at the discretion of the District Official. The costs associated with such mitigative measures will be borne by the Permittee.

A buffer zone, in which no land alteration or other activity is permitted, may be required to ensure adequate site protection. The width of this buffer zone shall be determined by the District Official in consultation with a representative of the Archaeology Branch of the British Columbia Ministry of Forests, Lands, Natural Resource Operations and Rural Development. The Permittee shall be responsible for the actions of employees and subcontractors with respect to site vandalism and the unlicensed collection of artifacts from Designated archaeological sites in and around the work location.

The Permittee shall ensure that all workers and Subcontractors are fully aware of these requirements and processes.

54. Protection of Roads

The Permittee shall ensure all equipment working on or hauling material on to and from the Site does not damage or deposit material onto any part of an existing roadway. Materials spilled onto the public roadways or driveways opened to public traffic shall be cleaned up immediately. The Permittee has the full responsibility to repair any damage to existing highways, local roads and driveways caused by its construction equipment and/or operations.

55. Harvesting of Timber on Highway Right-of-way



Permittee is to contact the Ministry of Transportation to obtain the necessary approval for removal of merchantable timber within the Highway right-of-way if the amount of merchantable timber exceeds 25 trees.

Merchantable timber shall be cold decked and loaded from approved access locations. Merchantable timber shall not be loaded from the traveled roadway or road shoulder.

56. The Permittee will ensure that the works do not, impair, impede or otherwise interfere with;
- I. public passage on the Highways;
 - II. the provision of highway maintenance services by the Province, or by its servants, contractors, agents or authorized representatives of the Province in connection with the Highways; or
 - III. the operation of the Highways;
57. That where the said works are in the proximity of any bridge, culvert, ditch or other existing work, such work shall be properly maintained and supported in such manner as not to interfere with its proper function, and on the completion of the said works any bridge, culvert, ditch or other existing work interfered with shall be completely restored to its original condition.
58. This permit does not provide licencing and insurance and/or oversize, overweight authorization for a commercial vehicle to access a provincial highway from an industrial road. Commercial vehicle operators require authority pursuant to Section 8 of the Commercial Transport Act, R.S.B.C. 1996, and should contact the Provincial Permit Centre at 1-800-559-9688 to obtain a Highway Crossing Permit.
59. Decommission:
- Temporary Access Locations shall be removed as soon as the West Path Yahk Section is complete and shall be returned to previous conditions. Disturbed Rights of Ways shall be reseeded with an approved blend.
60. Invasive Plant Management
- The Ministry requires an invasive plant management plan detailing appropriate ground disturbance rehabilitation and weed control measures.
61. Permittee is responsible for maintaining future depth coverage of works due to natural settlement and erosion of ground. The Permittee shall be held responsible for necessary pavement and gravel repair resulting from settlement within the excavated area for a period of two (2) years.
62. Permittee is to adhere to all seasonal load restrictions, where applicable. Current seasonal load restrictions can be viewed at <http://www.th.gov.bc.ca/bchighways/loadrestrictions/loadrestrictions.htm>
63. The Permittee is to ensure that no damage is done to any existing underground or overhead services and must contact the electrical, telephone, and natural gas utility and any private landowner having works under permit to verify the location of utility works that may be affected prior to opening up any portion of the public road right of way.
64. The Permittee shall provide an Irrevocable Letter of Credit (ILOC) from a recognized Canadian financial institution made payable for the Minister of Transportation and Infrastructure in the amount of \$1,780,000 in Canadian funds whose terms and conditions will be substantially compliant with those of the specimen form provided and the Permittee agrees that the Ministry may draw on the ILOC to cover any of the liabilities or obligations of the Permittee pursuant to this Permit, without further notice to the Permittee.
65. The Permittee shall obtain and maintain Commercial General Liability insurance including non-owned automobile and contractual liability insurance in an amount of not less than \$10,000,000.00. The insurance shall comply with all terms and conditions of the Ministry Certificate of Insurance (H0111) and evidence of such insurance shall be given by way of a duly completed H0111. All insurance coverage shall be issued with insurers acceptable to the Ministry, and issued by companies licensed to transact business in the Province of British Columbia and Canada.

The rights granted to the Permittee in this permit are to be exercised only for the purpose as defined in Recital B on page 1.

Dated at Cranbrook, British Columbia, this 27 day of May, 2022


On Behalf of the Minister



LKI SEGMENT 1470 - KM 16.86 ±












LEGEND

EXISTING LINETYPES

	SECTION BOUNDARY
	EASEMENT
	TREE LINE
	ROAD CENTRELINE
	PAVEMENT EDGE
	GRAVEL SHOULDER
	DITCH CENTRELINE
	ON POWER LINE
	WOOD FENCE
	WATERCOURSE

PROPOSED LINETYPES

	CENTRELINE
	SOLID PAINT LINE
	DASHED PAINT LINE
	PAVEMENT EDGE
	GRAVEL SHOULDER
	CLEARING AND GRUBBING
	DITCH CENTRELINE
	CUT DAYLIGHT
	FILL DAYLIGHT

DRAWING INDEX

001	.....	KEYPLAN, INDEX & LEGEND
101	.....	SITE PLAN - HIGHWAY 3
201	.....	PROFILE - HIGHWAY 3
201	.....	PROFILE - MORRISSEY ROAD
301	.....	TYPICAL SECTIONS AND DETAILS
302	.....	TYPICAL SECTIONS AND DETAILS
401	.....	GEOMETRICS AND LANING
402	.....	TURNING TEMPLATES

0 1:750 40

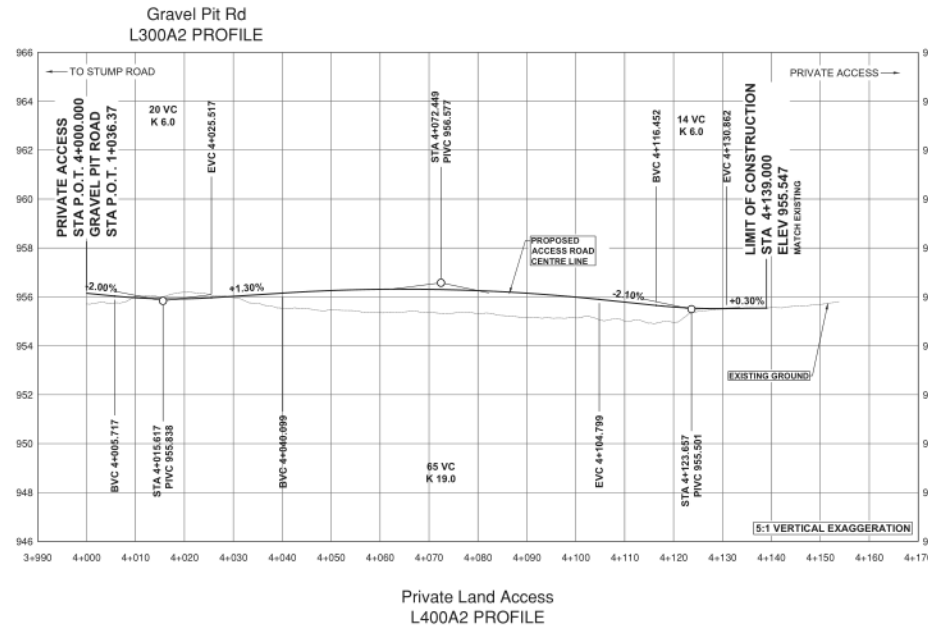
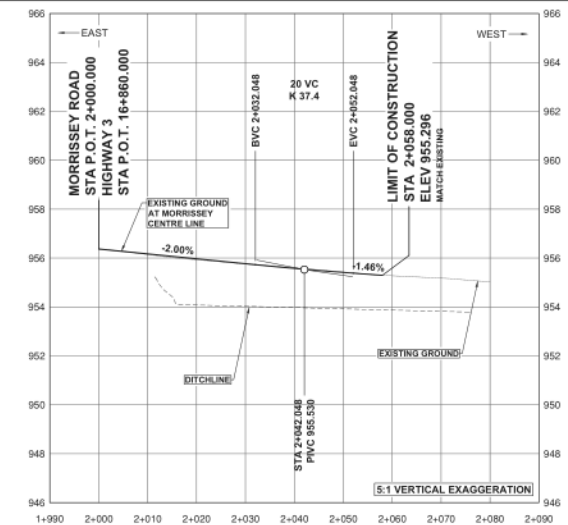
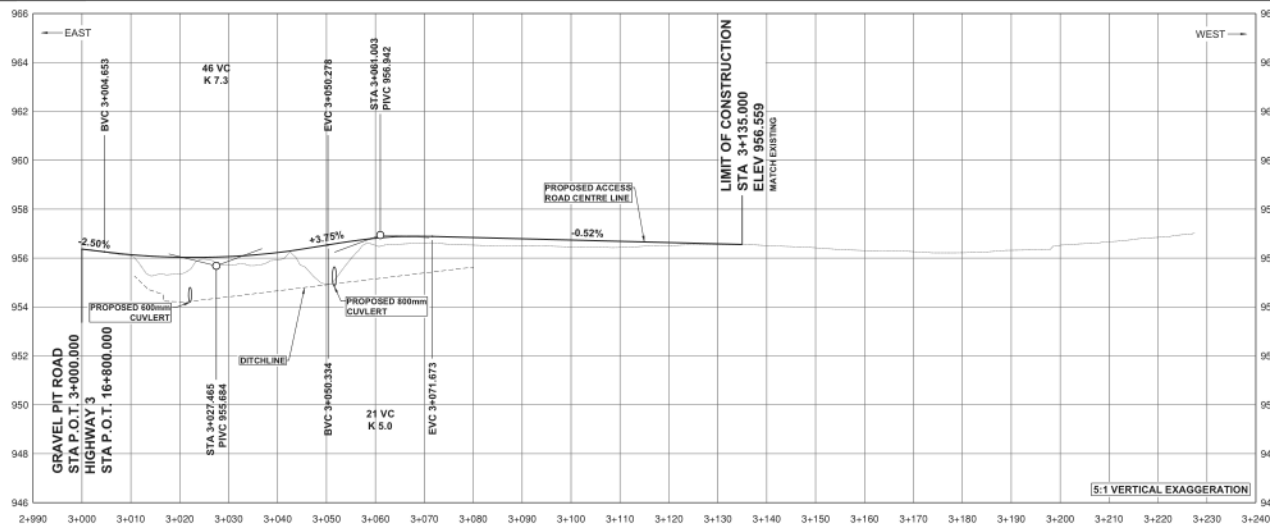
TC Energy

[ORIGINAL DWG SIZE: ANSI D (32" x 34")]

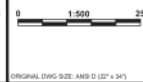
Approved Sealed

<p align="center">TC ENERGY 450 - 1 Street S.W. Calgary, AB Canada, T2P 5H1</p>	
<p align="center">KEY PLAN, INDEX AND LEGEND INTERSECTION UPGRADE - SITE 002 HIGHWAY 3 / MORRISSEY ROAD</p>	

Drawing No.	
001	
Project Number	Rev.
2511 01271 01	1



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1	2024-05-08	ISSUED FOR CONSTRUCTION	CH	SD	MM		
2	2024-05-08	ISSUED FOR INFORMATION - 80% PACKAGE	CH	SD	MM		
Rev	Date	Description	Drawn	Design	Appr.		



01190-MCSL-G-DD-0087

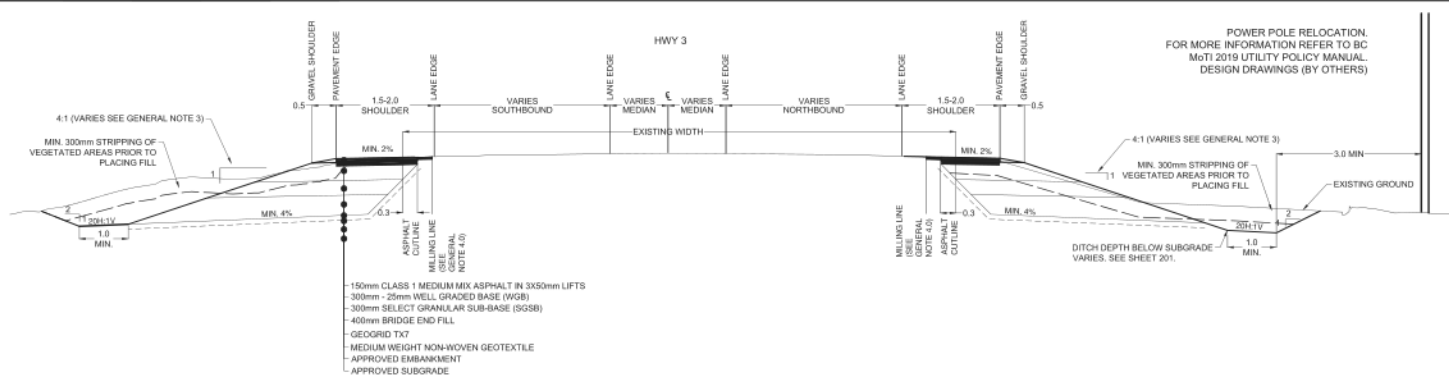
Suite 100
400 - 11 Avenue SE
Calgary AB
Canada T2G 0Y4
Tel 403 245-4711

Approved Sealed

TC ENERGY
450 - 1 Street S.W. Calgary, AB Canada, T2P 5H1

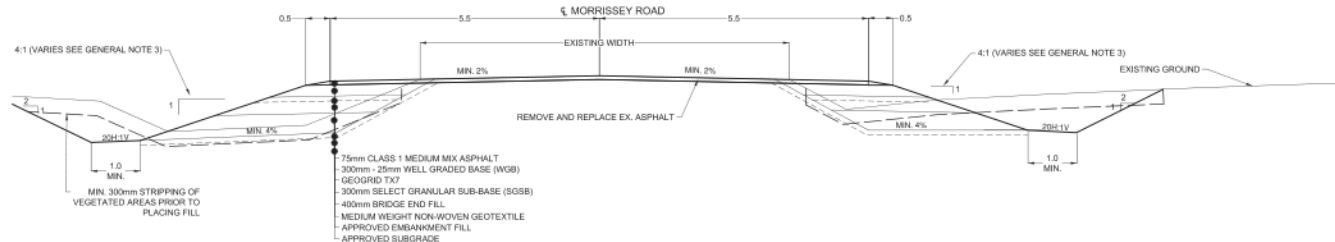
PROFILE - MORRISSEY ROAD
PROFILE - GRAVEL PIT ROAD
PROFILE - PRIVATE ACCESS ROAD
4 LEG INTERSECTION

Drawing No.	
202	
Project Number	Rev.
2511 01271 01	1



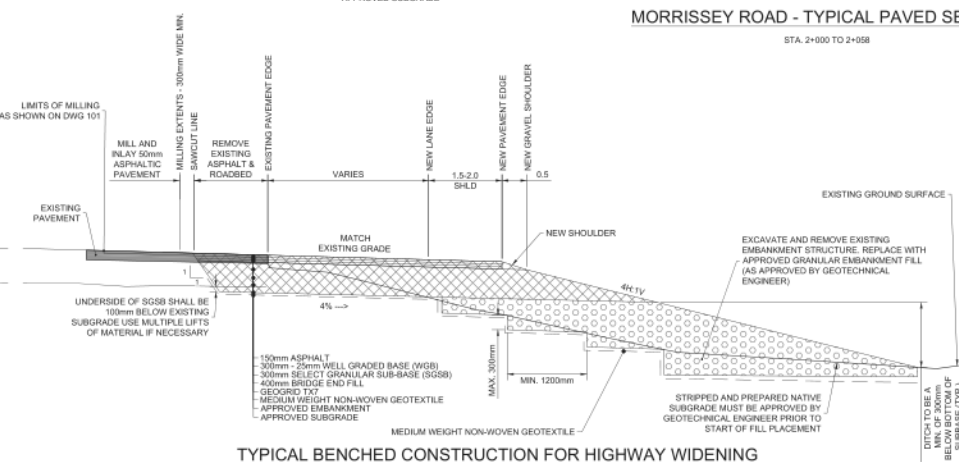
HIGHWAY 3 - TYPICAL PAVED SECTION

STA. 16+725 TO 17+080

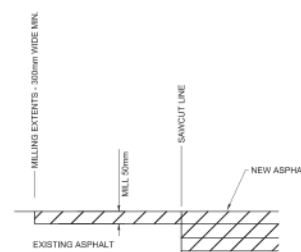


MORRISSEY ROAD - TYPICAL PAVED SECTION

STA. 2+000 TO 2+058



TYPICAL BENCHED CONSTRUCTION FOR HIGHWAY WIDENING



ASPHALT LAP DETAIL

NTS

[illegible]

ORIGINAL DIMG SIZE: ANSI D (22" x 34")

 **McElhanney**

01190-MCSL-G-DD-0087

Suite 100
400 - 11 Avenue SE
Calgary AB
Canada T2G 0Y4
Tel 403 245 4711

Approved Seal

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450 - 1 Street S.W. Calgary, AB Canada, T2P 5H1

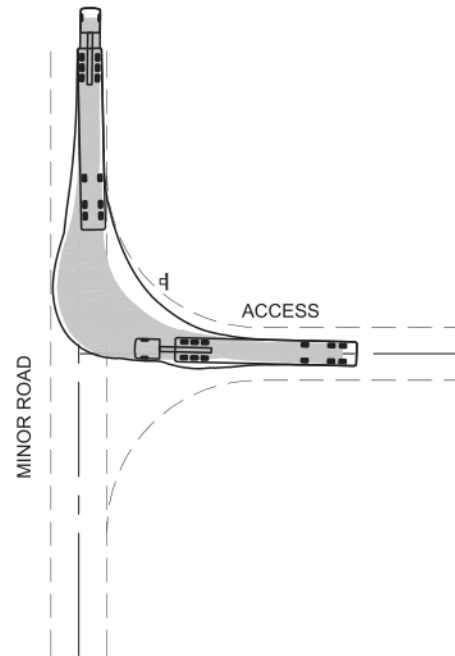
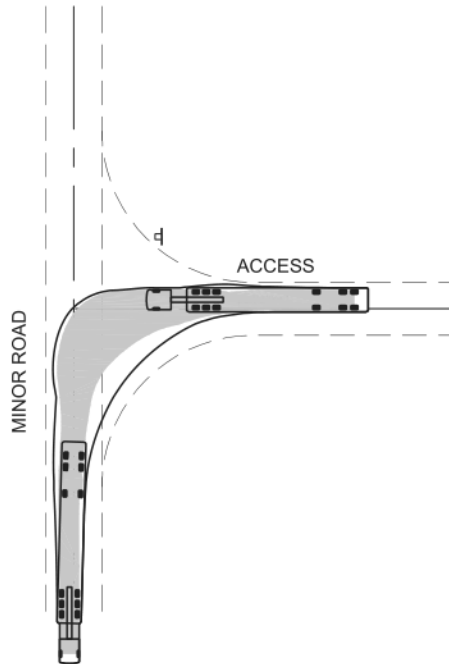
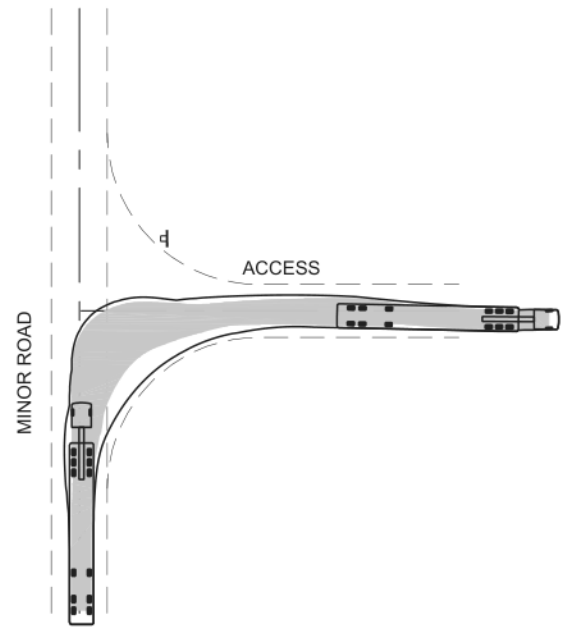
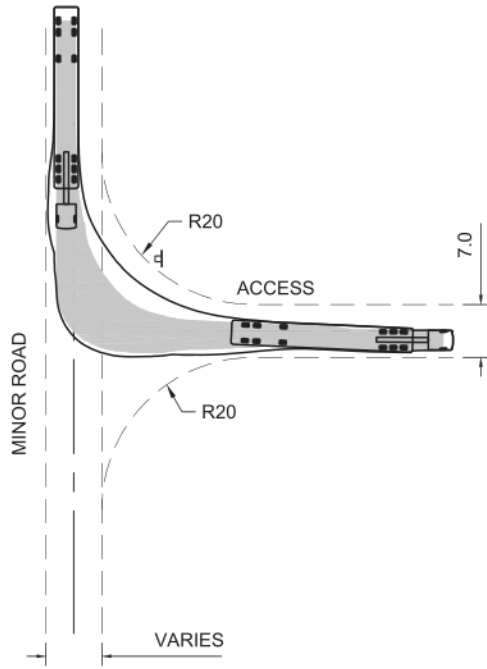
TYPICAL SECTIONS AND DETAILS
INTERSECTION UPGRADE - SITE 002
HIGHWAY 3 / MORRISSEY ROAD /
GRAVEL PIT ROAD 4 LEG INTERSECTION

Drawing No.	
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301

Project Number	2511 01271 01
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Ref	
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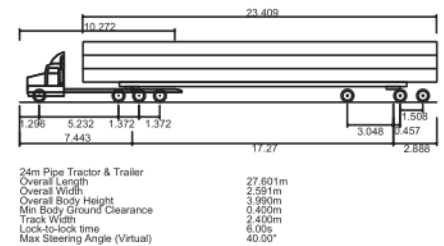
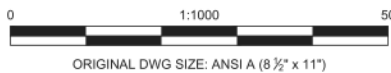
NOTES:

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2. ALL DIMENSIONS IN METRES.

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LEGEND:

- WHEEL PATH
- VEHICLE BODY (PIPE) SWEEP PATH



Suite 12
556 North Nechako Road
Prince George BC
Canada V2K 1A1
Tel 250 561 2229

FOOTHILLS PIPE LINES (SOUTH B.C.) LTD.
TC ENERGY

PROPOSED ACCESS GEOMETRY
AT MINOR ROAD
FOR 24m PIPE TRUCK

Drawing No.

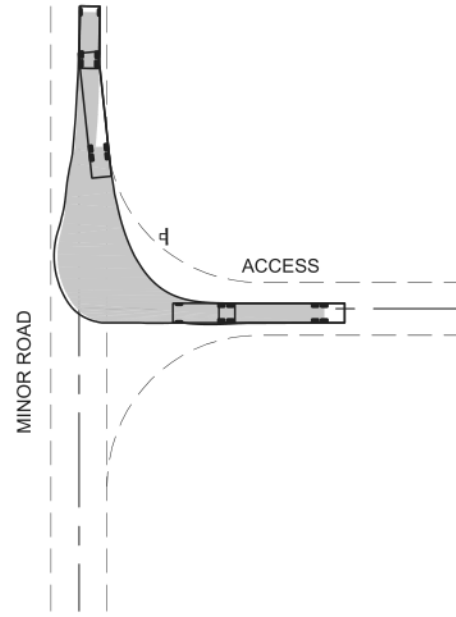
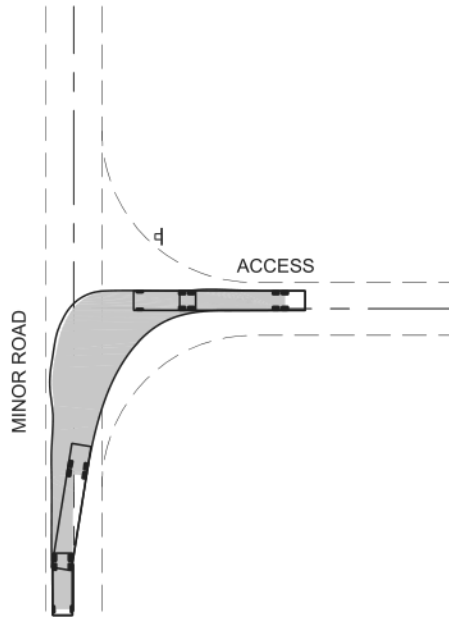
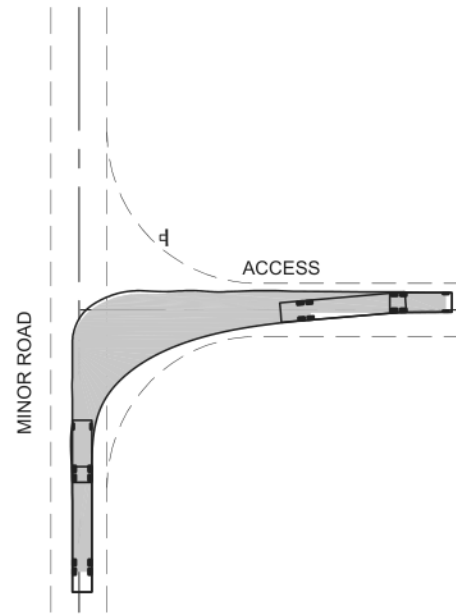
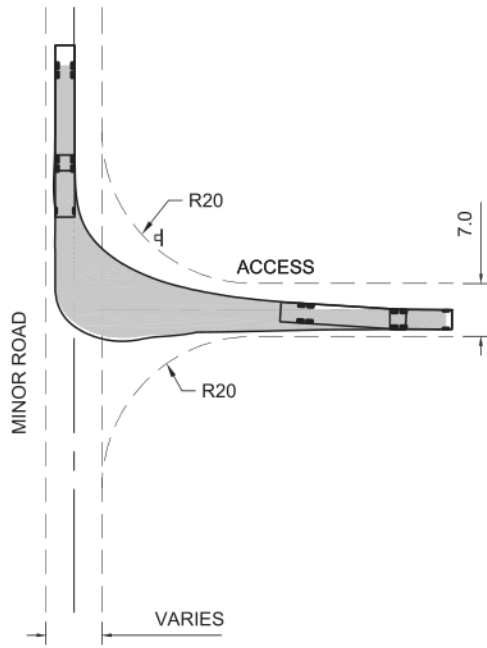
M-1

Project Number

2511 01267 0

Rev.

9



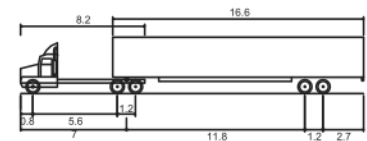
NOTES:

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LEGEND:

- WHEEL PATH
- VEHICLE BODY SWEEP PATH



WB-20 - Tractor & Semi-Trailer
Overall Length 22.700m
Overall Width 2.600m
Overall Body Height 3.730m
Min Body Ground Clearance 0.435m
Track Width 2.600m
Lock-to-lock time 4.05s
Curb to Curb Turning Radius 10.700m



McElhanney

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Tel 250 561 2229

FOOTHILLS PIPE LINES (SOUTH B.C.) LTD.
TC ENERGY

**PROPOSED ACCESS GEOMETRY
AT MINOR ROAD
FOR WB-20 (70 TON LOWBOY)**

Drawing No.

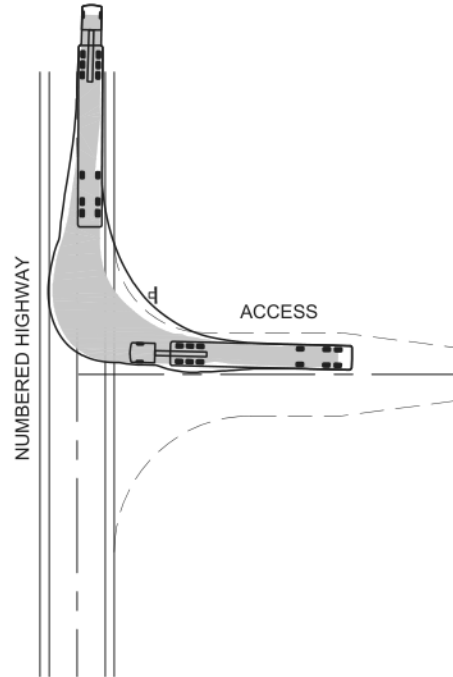
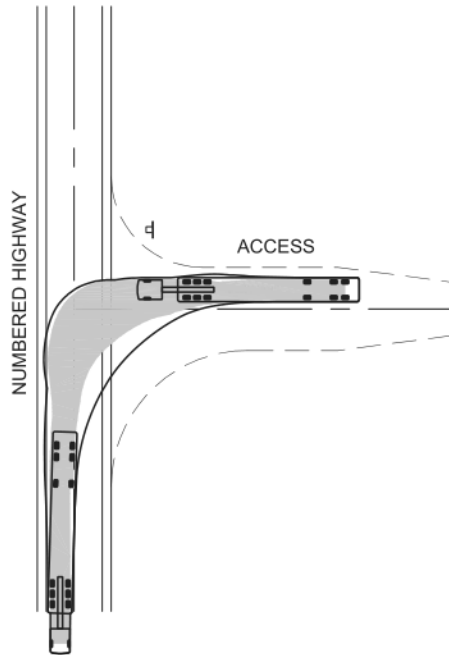
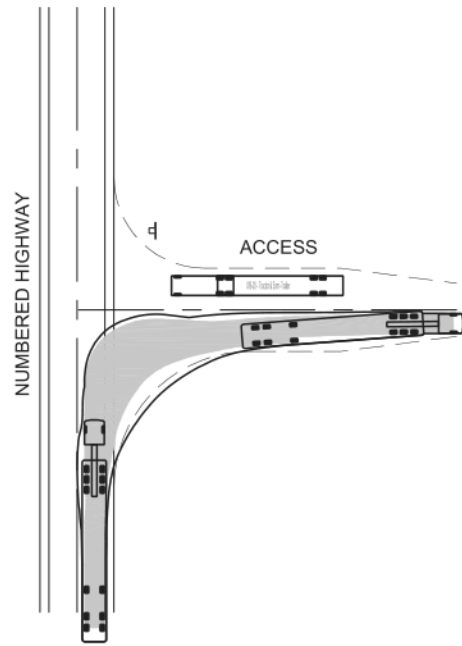
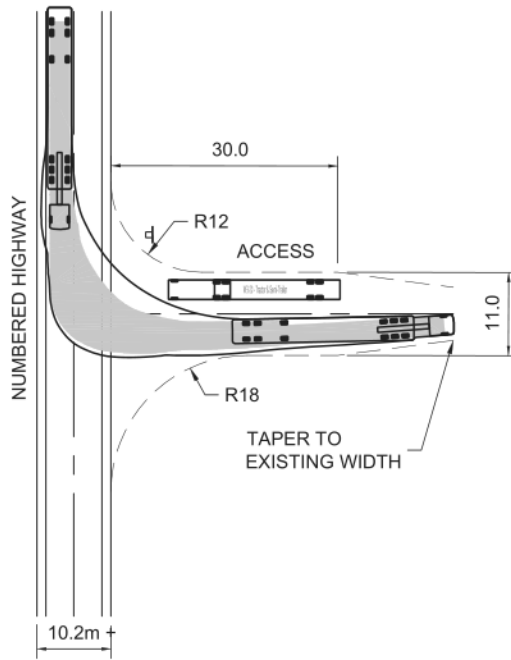
M-2

Project Number

9511-04267-0

Rev.

9



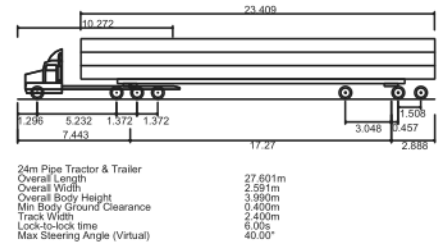
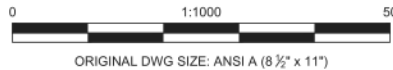
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LEGEND:

- WHEEL PATH
- VEHICLE BODY (PIPE) SWEEP PATH



Suite 12
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FOOTHILLS PIPE LINES (SOUTH B.C.) LTD.
TC ENERGY

PROPOSED ACCESS GEOMETRY
AT NUMBERED HIGHWAY
FOR 24m PIPE TRUCK

Drawing No.

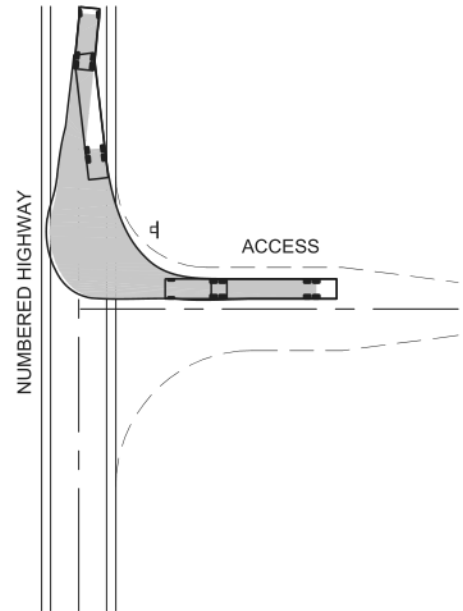
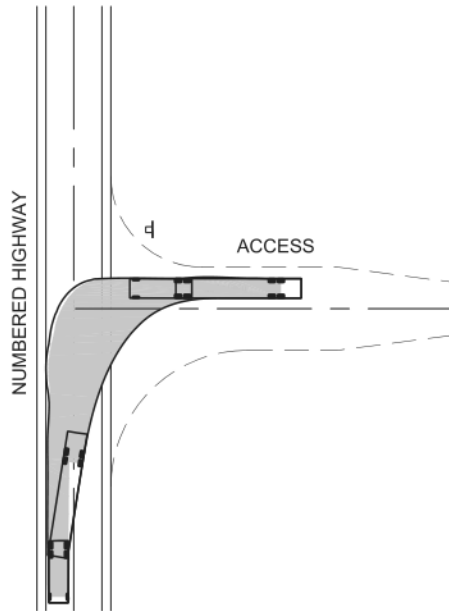
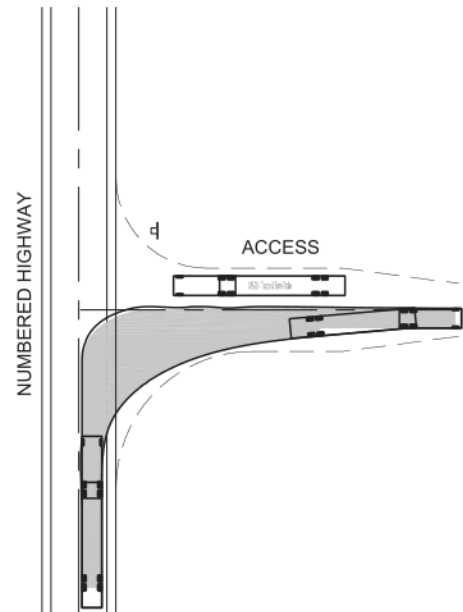
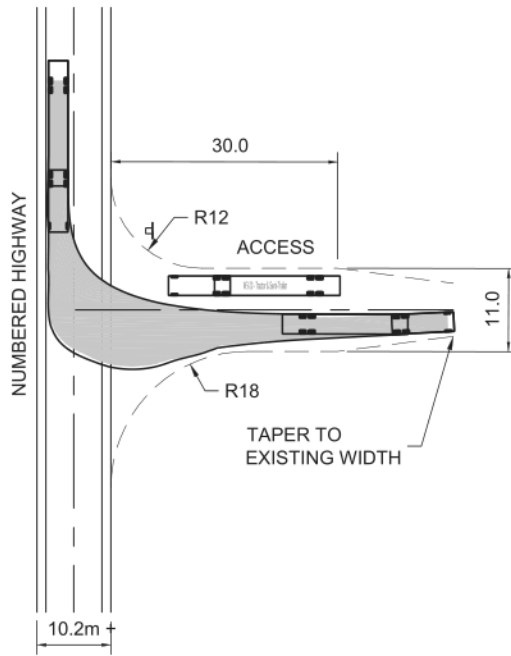
N-1

Project Number

2511 01267 0

Rev.

0



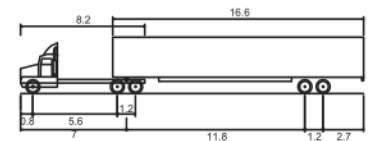
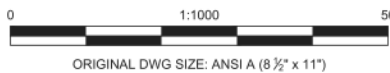
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LEGEND:

- WHEEL PATH
- VEHICLE BODY SWEEP PATH



WB-20 - Tractor & Semi-Trailer	
Overall Length	22.700m
Overall Width	3.730m
Min Body Ground Clearance	0.435m
Track Width	2.600m
Lock-to-lock time	4.05m
Curb to Curb Turning Radius	10.700m



Suite 12
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FOOTHILLS PIPE LINES (SOUTH B.C.) LTD.
TC ENERGY

PROPOSED ACCESS GEOMETRY
AT NUMBERED HIGHWAY
FOR WB-20 (70 TON LOWBOY)

Drawing No.

N-2

Project Number

2511 01267 0

Rev.

9