



May 18, 2016

Prince Rupert Gas Transmission Ltd.
450 - 1st Street SW
Calgary AB T2P 5H1

Attention: Surface Land Administrator

RE: Road Permit

Road Location: From NTS: a-89-C/93-M-12 To NTS: d-21-E/93-M-12
From: UTM Zone 10 Northing 6158863 Easting 572190; To: UTM Zone 10 Northing 6162834 Easting 570749
Date of Issuance: May 18, 2016
Road No.: 03696
Commission No.: 9643436

PERMISSIONS

Oil and Gas Activities Act

1. The BC Oil and Gas Commission ("the Commission"), under section 25 (1) of the *Oil and Gas Activities Act* hereby permits the holder to construct and maintain an oil and gas road, subject to the following conditions:
 - (1) The permissions and authorizations granted under this permit are limited to the area described in construction plan Document No: 167.2.0.0_OGC_CONST, Sheet 1-4 of 4, Revision 1, dated August 13, 2015 (the "construction plan") by McElhanney Geomatics Professional Land Surveying Ltd. as submitted to the Commission in the permit application dated November 26, 2015 (hereinafter referred to as the "operating area").
 - (2) Following initial construction of the road, future permission to construct is limited to required modifications within the operating area except as otherwise restricted by this permit.

Petroleum and Natural Gas Act

2. Pursuant to Section 138(1) of the *Petroleum and Natural Gas Act*, the permit holder is permitted to enter, occupy and use any unoccupied Crown land located within the operating area to carry out the oil and gas activity and related activities permitted under this permit.
 - (1) The permission to occupy and use Crown land does not entitle the permit holder to exclusive possession of the area.
 - (2) The total disturbance within the operating area must not exceed 18.15 ha.

AUTHORIZATIONS

Forest Act

3. The Commission hereby authorizes the permit holder, under section 47.4 of the *Forest Act*, to remove Crown timber from the operating area under Cutting Permit No. 39 under Master Licence to Cut number M02374.
4. Cutting Permit No. 39 is deemed spent upon the submission of the post-construction plan.

CONDITIONS

Notification:

5. The permit holder must submit the post-construction plan, as per section 11 of the Oil and Gas Road Regulation, as an ePASS shape file and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shapefile and plan must be submitted to postconstructionplan@bcogc.ca.
6. The permit holder must notify Wilps Kliiyem Lax Haa a minimum of five (5) days prior to commencement of construction activities.

General:

7. The permit holder will immediately effect, and keep in force while occupying the operating area, insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the permit holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party liability claims arising from any accident or occurrence on the operating area.
8. The rights granted by this permit in relation to unoccupied Crown land are subject to all subsisting grants to or rights of any person made or acquired under the *Coal Act, Forest Act, Land Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Water Sustainability Act or Wildlife Act*, or any extension or renewal of the same.
9. The permit holder must not assign, sublicense or permit any person to use or occupy any Crown land within the operating area, other than its employees, contractors, or representatives, without the Commission's written consent.
10. The permit holder must ensure that any Crown land within the operating area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
11. The permit holder must ensure that any Crown land within the operating area is maintained free of garbage, debris and unused equipment.

Environmental:

12. The permit holder must not undertake clearing activities between April 1 and July 31, unless pre-clearing surveys are completed and, where appropriate, mitigation is implemented as per the methods outlined in the Bird Nest Mitigation and Monitoring Plan (Appendix F-2 of the Construction Environmental Management Plan).
13. Upon completion of construction activities, the permit holder must restore any portions of the operating area not required for ongoing operation of the road, by ensuring re-vegetation of any exposed soil on the operating area including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:
 - (1) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
 - (2) stabilize the soil if it is highly susceptible to erosion.

Archaeology

14. An Archaeological Impact Assessment (AIA) is required for the proposed development area prior to any development activities taking place.

An AIA report must be submitted to the Commission and Wilps Kliiyem Lax Haa as soon as practicable.

If artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act issued by the Commission in respect of that artifact, feature, material or thing:

- (1) immediately cease all work in the vicinity of the artifacts, features, materials or things;
- (2) immediately notify the Commission and the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations

- (3) refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance with the Heritage Conservation Act and approved by the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations.

Clearing:

15. All harvested Crown timber must be marked with Timber Mark Number MTB 711.
16. Cutting Permit No. 39 does not grant the Permit Holder the exclusive right to harvest Crown timber from the operating area. Authority to harvest some or all of the timber may be granted to other persons. The permit holder's right to harvest timber applies to any timber found on the operating area at the time they undertake harvesting activities.
17. Stumpage for Cutting Permit No. 39 will be calculated in accordance with the Interior Appraisal Manual as amended from time to time. In the current version of the Manual, stumpage will be determined in accordance with Table 6-3 (volume based).
18. The Interior merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Measurement Procedures Manual that are in effect upon issuance of this permit apply to any waste assessments required under Master License to Cut M02374.
19. The holder of Cutting Permit No. 39 must pay to the government, stumpage and any waste billing determined in accordance with the terms of this permit.
20. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the operating area that are considered to be a safety hazard according to Workers Compensation Act regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the operating area without causing damage to standing timber may be harvested.

Watercourse Crossings or Works:

21. Stream and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
22. Following initial construction, stream crossings are authorized for necessary road modification or maintenance activities on the operating area except for:
 - (1) construction or replacement of a bridge or major culvert on a S1, S2, S3 or S5 stream;
 - (2) installation of a closed bottom structure in a fish bearing stream; or
 - (3) excavation or grading of a stream bank or stream bed.
23. Stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
 - (1) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings.
 - (2) Snow fills must consist of clean snow and may only be located on streams that are dry or frozen to the bottom during the period of construction, maintenance and use. Where periodic thaws are anticipated, culverts must be installed to allow meltwater to pass through. Snow fill and any installed culverts must be removed prior to spring snow melt.
 - (3) Ice bridges on fish bearing streams may only be constructed where sufficient water depth and stream flows prevent the bridge structure from coming in contact with the stream bottom.
 - (4) Water applied to construct an ice bridge on a water body must be sourced in accordance with the Water Sustainability Act unless
 - (a) the water body is a stream with a stream channel width of at least 5 metres and is not designated as a sensitive stream under the Fish Protection Act, or has a riparian class of W1, W3, or L1,
 - (b) the water is sourced from the same water body proximal to the location on which the ice bridge is constructed,

- (c) the water body is not within the boundaries of a public park,
 - (d) pump intakes do not disturb beds of streams or wetlands except as necessary for the safe installation and operation of equipment, and are screened with a maximum mesh size and approach velocity in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline, and
 - (i) where the water body is a stream, the flow of water in the stream at the time and location of pumping exceeds 60 litres per second and the instantaneous pumping rate does not exceed 1% of the water flowing in the water body at the time and location the pumping occurs, or
 - (ii) where the water body is a lake or pond, the cumulative volume of water withdrawn does not exceed 10 cm of lake or pond depth, calculated as the product of lake or pond surface area x 10 cm;
- (5) In-stream activities within a fish bearing stream must occur
- (a) during the applicable reduced risk work windows as specified in the during the applicable reduced risk work windows as specified in the Skeena Region Reduced Risk In-stream Work Windows and Measures;
 - (b) in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the Commission; or
 - (c) in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the Commission.
- (6) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width.
- (7) Equipment used for activities under this permit must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity.
24. Wetland crossings must be constructed, maintained and removed in accordance with the following:
- (1) Organic cover within and adjacent to the wetland must be retained;
 - (2) Minimize erosion or release of sediment within the wetland;
 - (3) Any padding materials must be placed on the wetland surface only and must not be used for infilling;
 - (4) Any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
 - (5) The wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.

ADVISORY GUIDANCE

1. Appropriate tenure will be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for all subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan no further applications for replacement tenure are required.
2. The term "unused equipment" has the same definition as in the Drilling and Production Regulation.

3. Wilps Kliiyem Lax Haa requests to be notified if artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified by the permit holder.

The attached plan(s) forms an integral part of this permit.



Justin Anderson
Authorized Signatory
Commission Delegated Decision Maker

- pc. Roy Northern Land Service Ltd.
Commission No.: 9643436
MoFLNRO: Skeena
OGC First Nations: XSSE

LEGEND:

- P.R.G.T. Pipeline Centreline
- P.R.G.T. Pipeline Right Of Way
- Opening
- Non-Tenure Road
- Road Centreline
- [- -] Visual Sensitivity
- [. . .] Wetland
- [- - -] Trapper Boundary
- [- - -] Reserve/Notation
- River / Creek
- Riparian Management Zone (RMZ)
- Riparian Reserve Zone (RRZ)
- [- -] Range Tenure
- [- -] Endangered Species

Notes :

-The proposed project is not within the Agricultural Land Reserve (ALR).
 -UTM coordinates shown are NAD83 Zone 9 N.
 -The proposed project is within the South West OGC Zone.
 -Distances shown are in meters and decimals thereof.

McElhanney
 8808 72nd Street
 Fort St. John, BC, V1J 6M2
 Tel: 250-787-0356

Job: 3111-22807

BCGS: 93M.051 & 93M.061

APPROVER: ROB BEDARD

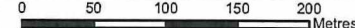
EPASS#: 10052230

PROJECT MANAGER: SANTINO PIRILLO

REVISION DESCRIPTION

1 Issued for Use August 13, 2015

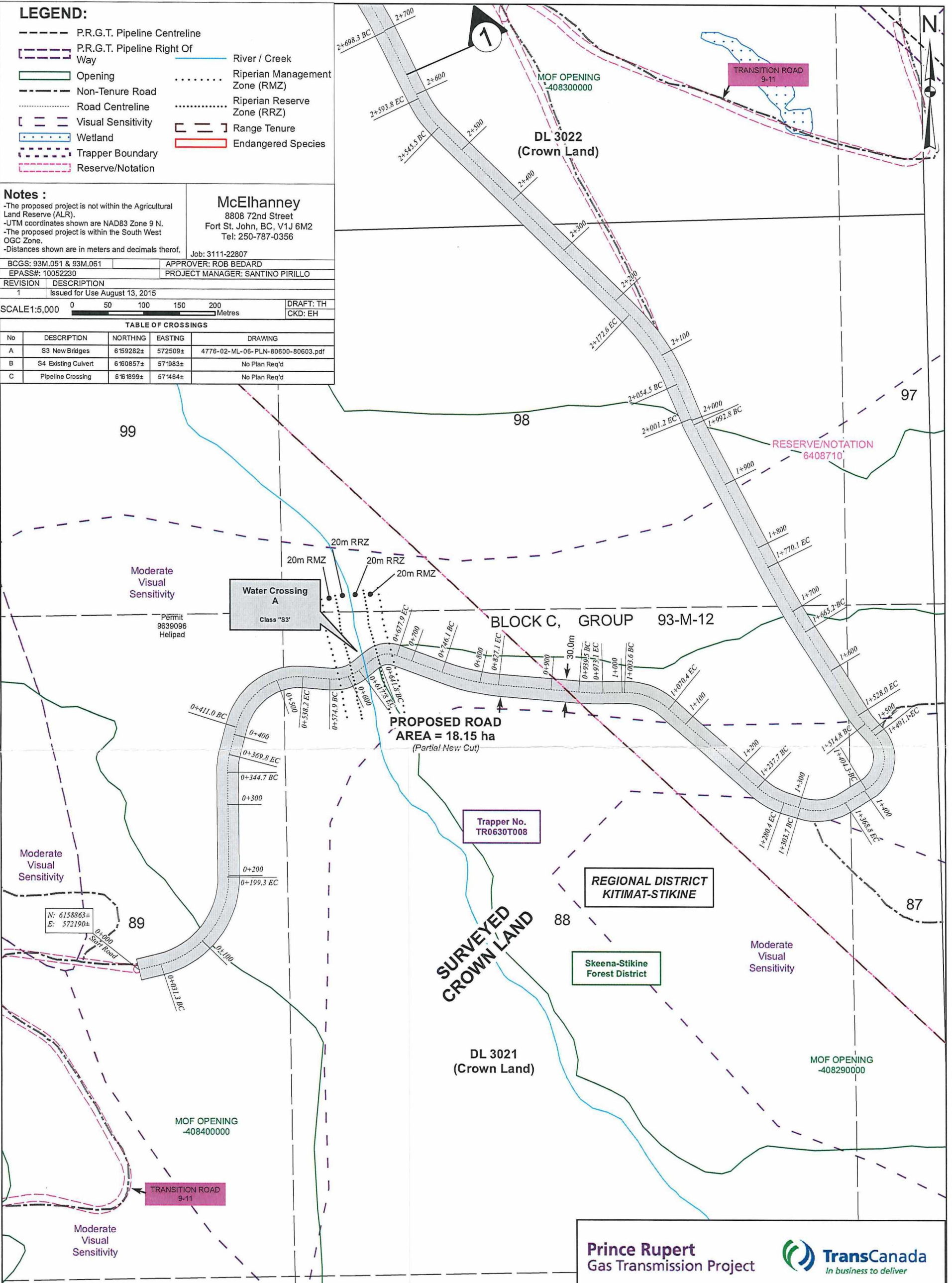
SCALE 1:5,000



DRAFT: TH
 CKD: EH

TABLE OF CROSSINGS

No	DESCRIPTION	NORTHING	EASTING	DRAWING
A	S3 New Bridges	6'59282±	572509±	4776-02-ML-06-PLN-80600-80603.pdf
B	S4 Existing Culvert	6'60857±	571983±	No Plan Req'd
C	Pipeline Crossing	6'6'899±	571464±	No Plan Req'd



ROAD SEGMENT (MCSL Road ID 167.2.0.0)						
SEGMENT	FROM	NAD83 UTM ZONE 9		TO	NAD83 UTM ZONE 9	
		NORTHING	EASTING		NORTHING	EASTING
1	a-89-C/93-M-12	6158863±	572190±	d-21-E/93-M-12	6162834±	570749±
1	LENGTH	WIDTH		AREA (ROAD)		LAND TYPE
		MIN	MAX	NEW CUT	TOTAL	
	6.05 km	30m	30m	12.10 ha	18.15 ha	CROWN

TABLE OF TOTAL AREAS REQUIRED (CROWN LAND)			
Proposed Features:	New Cut	Existing Clearing	Total
PROPOSED ROAD	12.10 ha	6.05 ha	18.15 ha
TOTAL CROWN LAND DISTURBANCE	12.10 ha	6.05 ha	18.15 ha

Range Tenure
 RAN 075811

DL 3018
 (Crown Land)

Prince Rupert Gas Transmission Project

PRINCE RUPERT GAS TRANSMISSION LTD.

**CONSTRUCTION PLAN SHOWING
 PROPOSED ROAD
 167.2.0.0 NEW ROAD CONSTRUCTION**

FROM
 a-89-C, 93-M-12
 TO
 d-21-E, 93-M-12

THROUGH DL 3021, DL 3022, DL 3023 AND UNSURVEYED CROWN LAND
 CASSIAR DISTRICT
 SKEENA-STIKINE FOREST DISTRICT

Page 1 of 4

Route Reference: IFC Route 9003
 August 13, 2015

Document No.: 167.2.0.0_OGC_CONST

9643436

LEGEND:

- P.R.G.T. Pipeline Centreline
- P.R.G.T. Pipeline Right Of Way
- Opening
- Non-Tenure Road
- Road Centreline
- [- -] Visual Sensitivity
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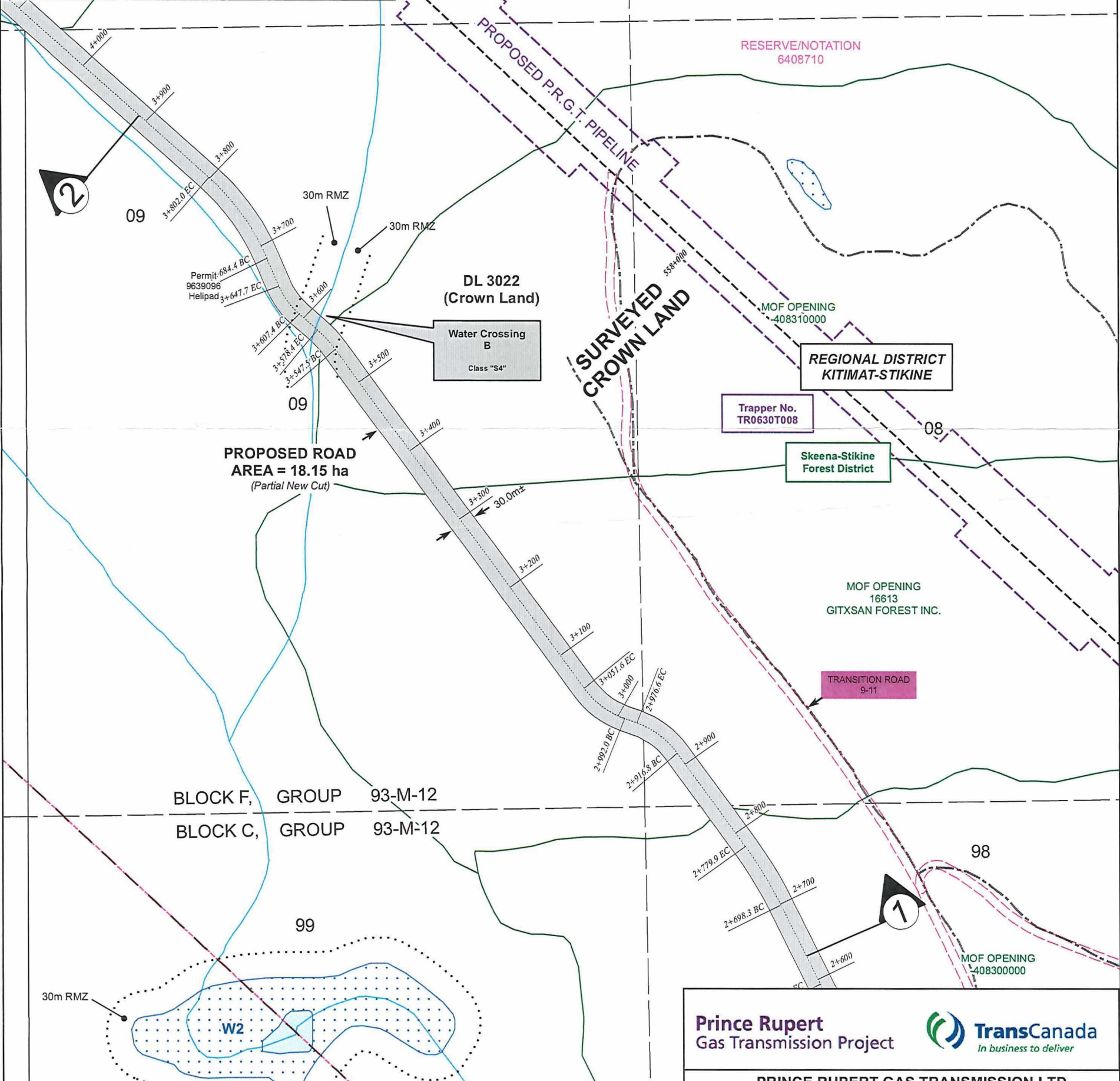
Job: 3111-22807

BCGS: 93M.051 & 93M.061 APPROVER: ROB BEDARD
 EPASS#: 10052230 PROJECT MANAGER: SANTINO PIRILLO

REVISION DESCRIPTION
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SCALE 1:5,000 0 50 100 150 200 Metres DRAFT: TH
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PROPOSED ROAD AREA = 18.15 ha
 (Partial New Cut)

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FROM a-89-C, 93-M-12 TO d-21-E, 93-M-12

THROUGH DL 3021, DL 3022, DL 3023 AND UNSURVEYED CROWN LAND CASSIAR DISTRICT SKEENA-STIKINE FOREST DISTRICT

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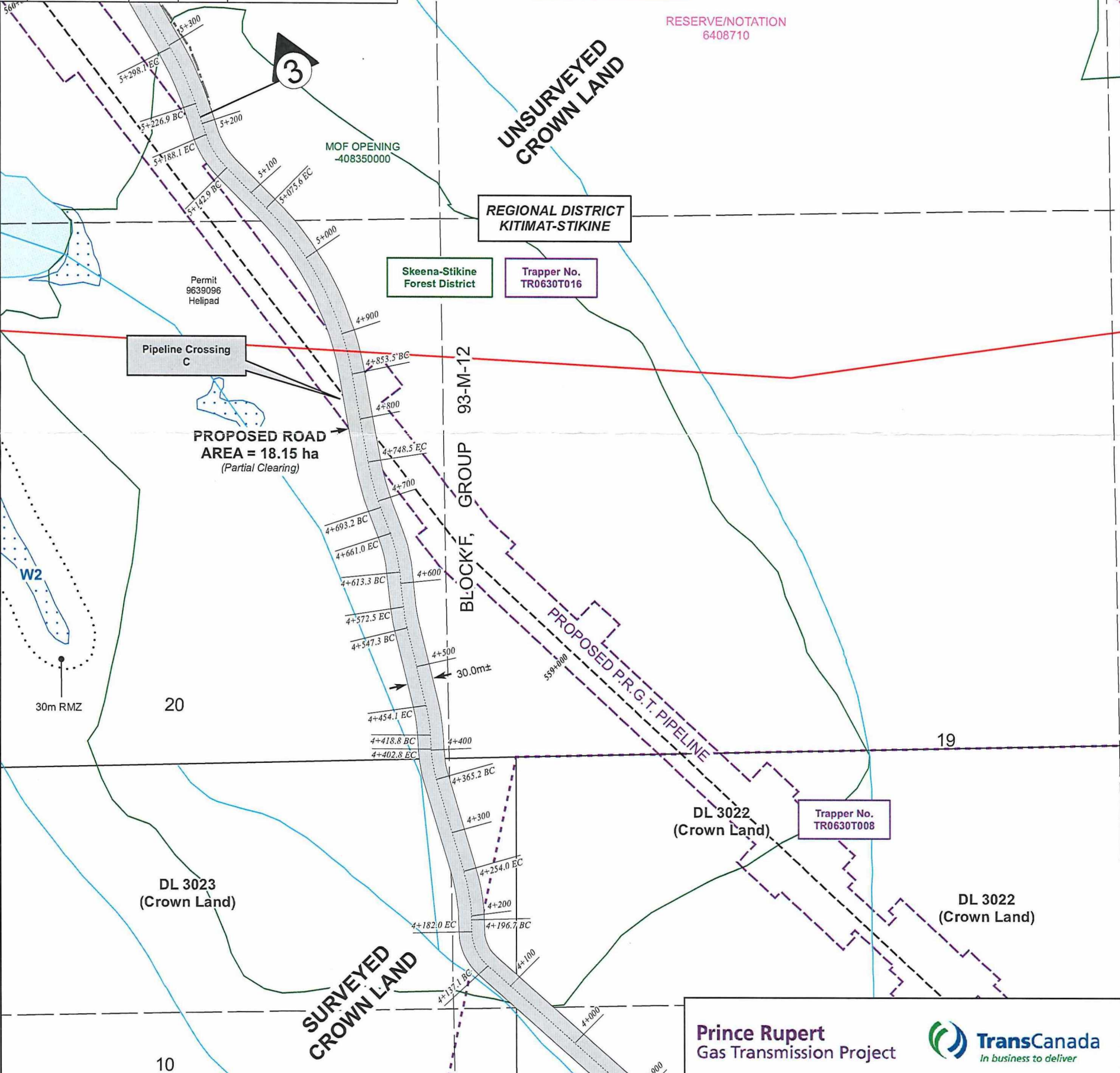
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 SKEENA-STIKINE FOREST DISTRICT

Page 3 of 4
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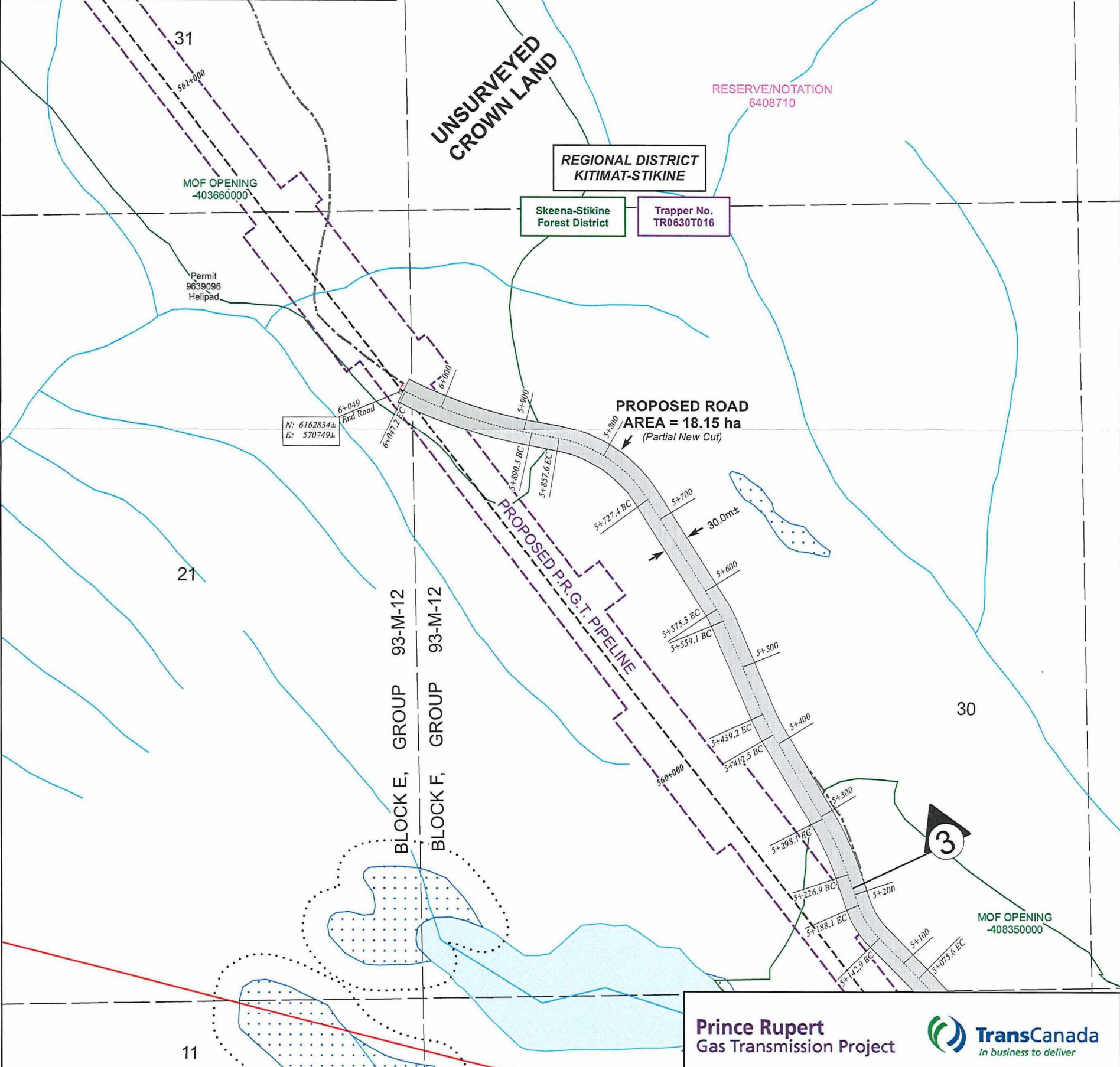
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