



ROAD INSTRUCTION MAP

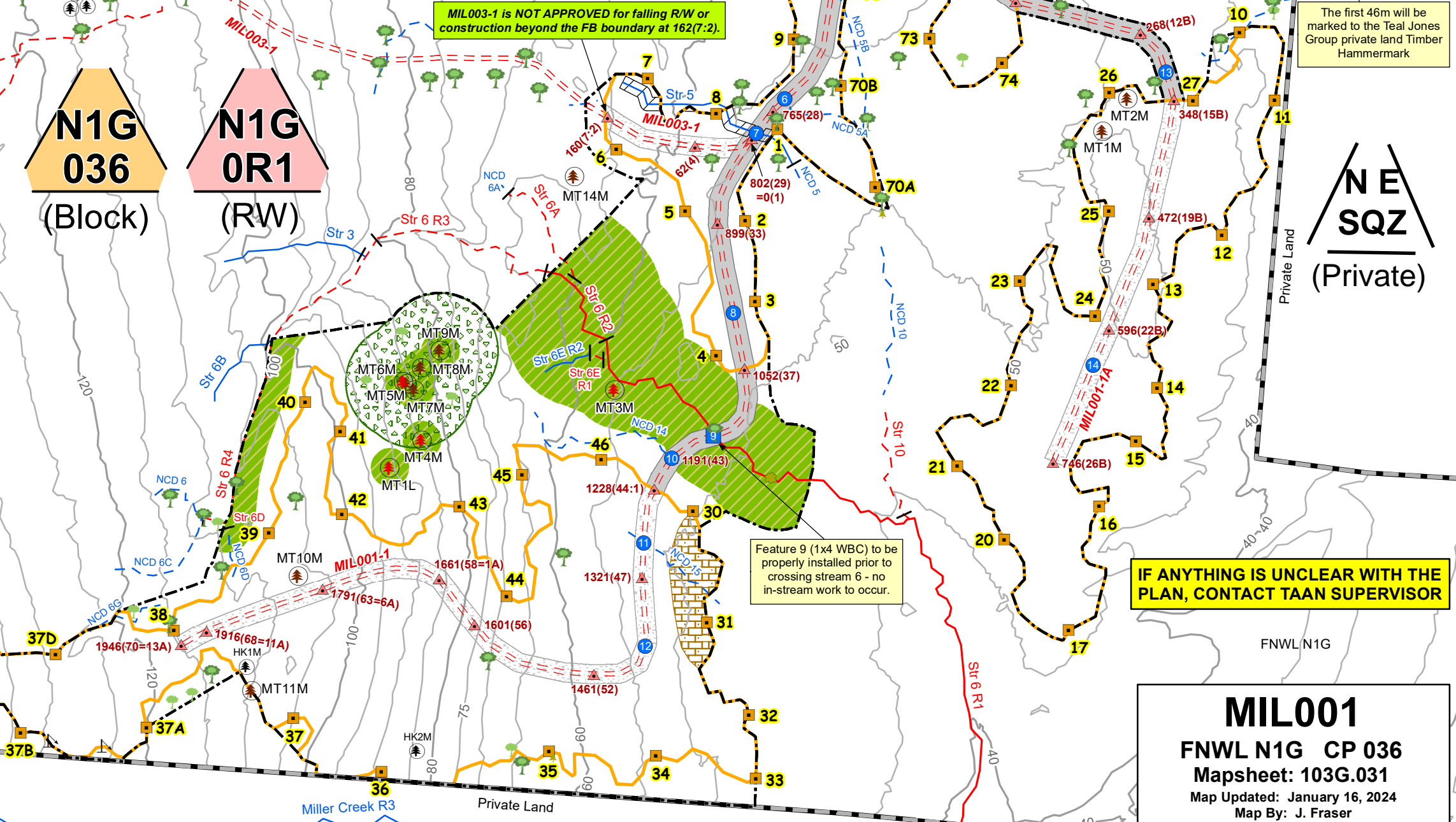
Legend

- Boundaries**
 - Falling Corner
 - Falling Boundary
 - Adjacent Proposed Block
 - Tenure Boundary
 - TAUP/Development Area
- Harvest Method / Features**
 - Proposed R/W (CP/RP)
 - Existing R/W
- Management Features**
 - Machine Free Zone
 - Sensitive Soils
- Riparian Features**
 - Type 1 Stream
 - Type 2 Stream
 - Upland Stream
 - Non-Classified Drainage
 - Unknown
 - Fish Sensitive Feature
 - Wet Ground/Swamp
 - Reach Break
- Lakes / Wetlands**
 - Forested Swamp
 - Type 1 Habitat (Lake/Wetland)
 - Type 2 Habitat (Lake/Wetland)
 - Non-Fish (Lake/Wetland)
 - Unverified Lake/Wetland/Swamp
- Roads**
 - Road Station (Hub)
 - Engineered Road
 - Existing Road
 - Rece Road
 - Adjacent Engineered Road
 - FSR Road
 - Old Grade
 - Old Skid Trail
 - De-activated Road
- Road Features**
 - Culvert (Existing / Proposed)
 - Wood (Existing / Proposed)
 - Replace or Repair (Culvert / Wood)
 - Bridge (Existing / Proposed)
 - Waterbar / X-ditch
- Road Construction**
 - End Haul
 - Spoil Site
 - Large Fill
 - Special Road Instructions
 - Quarry
- Contours (5m interval)**
 - Index Contour and Label
 - Intermediate Contour
- LUO Features**
 - Pacific Crab Apple (Single)
 - Pacific Crab Apple (Group)
 - Yew (Single)
 - Yew (Group)
 - Fairy-slipper
 - Black hawthorn
 - Northern riceroot
 - Devil's club
 - Highbush-cranberry
 - Monumental Cedar (>120cm DBH)
 - Monumental Cedar (<120cm DBH)
 - CMT, Culturally Modified Tree
 - Other, Bear Den
- Other Features**
 - Permanent Sample Plot
 - Dangerous Tree
 - Windthrow
 - Rock
 - Rock Bluff
 - Slide
 - Gully
 - Heli Pad
 - Heli Service Landing
 - Gate
 - Adjacent Retention
 - Adjacent WTRA
 - Greened Up Block
 - Non-Greened Up Block
 - Growth & Yield Plot Buffer
- Other Constraints**
 - Park / Protected Area
- Reserves**
 - Includes all WTRA & LUO Reserves. For a further break-down of areas please see the SP Map.
 - Cultural Cedar Stand

Road Construction Feature Summary							
Road Name	Feature Number	Road Station		Feature Type	Dimensions		
		(m)	HUB		(m)	(mm)	Length(m)
MIL001-1	1	11	1:2	Culvert-Install	400		10
	2	196	7:1	Culvert-Install	500		9
	3	305	12	Culvert-Install	400		10
	4	430	17	Culvert-Install	400		9
	5	614	23:1	Culvert-Install	500		10
	6	748	27:1	Culvert-Install	500		9
	7	793	28:1	Culvert-Install	600		10
	8	993	35	Culvert-Install	400		9
	9	1141	41:1	Wood-Install	1		4
	10	1191	43	Culvert-Install	500		9
	11	1285	46:1	Culvert-Install	500		9
	12	1393	49:1	Culvert-Install	400		9
MIL001-1A	13	318	14B	Culvert-Install	400		9
	14	637	23B:1	Culvert-Install	400		9

Road Construction Summary								
Road Name	Inside Setting (m)	Outside Setting (m)	Start Station(m)	Start Station(HUB)	End Station(m)	End Station(HUB)	Length(m)	Type of Construction
MIL001-1	1673	273	0	1	1946	70=13A	1946	new
MIL001-1A	533	213	0	1B	746	26B	746	new
MIL001-1B	282	0	0	1C	282	11C	282	new
MIL003-1	160	0	0	1	160	7:2	160	new
Sub-total (m)	2648	486					3134	

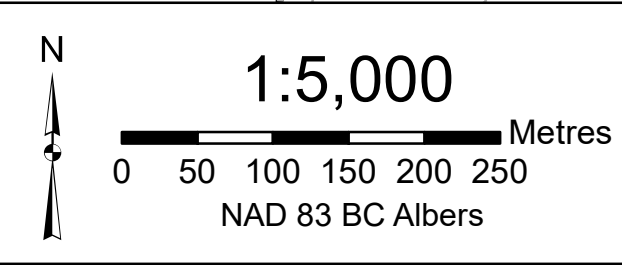
Private homestead - Taan Representative to communicate operational plans and safety plans with home owner prior to commencement of operations



N1G 036 (Block)
N1G 0R1 (RW)

NE SQZ (Private)

Geographic Centre:
(Block Centre)
53° 20' 49"N Lat. / 131° 57' 30"W Long.
Emergency Grid: L/16, M/16



Feature 9 (1x4 WBC) to be properly installed prior to crossing stream 6 - no in-stream work to occur.

IF ANYTHING IS UNCLEAR WITH THE PLAN, CONTACT TAAN SUPERVISOR

MIL001
FNWL N1G CP 036
Mapsheet: 103G.031
Map Updated: January 16, 2024
Map By: J. Fraser

In addition to these site-specific instructions, all operations must be carried out in accordance with the Contract and Taan's CMS. This document is only a map representation of the road profile document. The road construction designs, Terrain Stability Field Assessment Report and other applicable documents must be referenced in conjunction with this plan.

ROAD CONSTRUCTION STRATEGIES AND CONSTRAINTS

If anything is unclear in this plan, contact Taan's Manager or Supervisor

Construction Plan:

Reference Taan road design and profiles.

Right of Way Falling:

- Right of Way width within falling boundaries is 30 m or as otherwise identified on the RI Map
- Right of Way outside falling boundaries is 20 m or as otherwise identified on RI Map.
- Fall and buck according to current Taan bucking and utilization standards

Road Construction:

- Roads are designed to be constructed utilizing overland and cut and fill techniques.
- All road construction requires the employment of sediment control measures (silt fencing, hay bales and sediment catchment basins/sumps)
- Puncturee is required minimize punctcheon use and ensure no logs meeting Taan utilization specifications are used or destroyed for punctcheon.
- Keep length of punctcheon to minimum running surface width (5.0m) so the end of punctcheon can be covered. Puncturee must be tight, minimal gaps with a minimal of 30cm ballast on top

Overland Construction

- Puncturee is at ground level, no stripping of overburden material
- Culverts should be installed at punctcheon height to capture overland water unless cross section design requires culvert to be lower on the existing streambed where possible and armored at the outlet. All culverts must have a minimum of 30cm ballast on top.
- Local material from a designated pit, such as sand, may be used to fill punctcheon gaps. Geotextile may be used to "sandwich" local material and prevent contamination with ballast.

Cut and fill construction

- fill material should be keyed-in after all organic material has been removed
- Strippings and organics must be kept out of the sub-grade
- Culverts to be installed as per the design, with armoured outlets where necessary. All culverts must have a minimum of 30cm ballast on top.
- All punctcheon and debris introduced at designated stream crossings shall be removed immediately after crossing
- Alternatives to ditching include: sub-drains (French drains), natural dips and swales, in-sloping and out-sloping
- All punctcheon and debris introduced at designated crossings shall be removed immediately after crossing
- Don't remove gravel from the RMA beyond the road prism
- Maintain natural drainage patterns at all times, unless otherwise prescribed
- All merchantable timber will be processed and decked neatly at road side for loading out
- All fish crossings must be constructed from one side and meet the design specifications of the culverts listed on the front of these instructions. No in-stream work is permitted
- Follow Ministry of Forest Engineering Manual Appendix 3.5 -WBC design for Culvert construction and follow the Fish Stream Crossing Guidebook

Invasive Plants, Sedimentation and Erosion Control:

- Wash equipment before moving from an area of known invasive plants before moving into a new area.
- Invasive plant parts removed from machinery should be burned. Where burning is not possible dispose of in landfill area.
- Any invasive plant found must be brought to the attention of Taan Forest.

Special Construction Requirements: N/A

THE FOLLOWING ROADS ARE APPROVED FOR CONSTRUCTION

	Stns	to	SEE APPLICABLE DESIGNS / PROFILES/TSFA REPORTS etc.
MIL001-1	0+000 (Hub 1)	1+946 (Hub 70)	
MIL001-1A	0+000 (Hub 1)	0+746 (Hub 26B)	
MIL001-1B	0+000 (Hub 1)	0+282 (Hub 11C)	
MIL003-1	0+000 (Hub 1)	0+160 (Hub 7:2)	

ISSUES OR CONCERNS

ACTIONS TO ACCOMMODATE

Safety

Refer to Taan Pre-work document prior to starting Falling and Harvesting activities.

Power Lines – the power line on the highway has a height of 6.6m – workers are to be made aware of this hazard

Dangerous Trees outside of the harvest boundary – Operations will be in accordance with Work Safe BC Regulations. Where possible "No Work Zones" will be established. If the Dangerous Tree must be felled, mark an "X" on the stump in the field and mark an "X" on the map in the office. **Danger Trees felled within a Wildlife Tree Retention Area (WTRA) or Reserve are not to be utilized.**

If any raptor nests, heron rookeries or other previously unidentified features are found operations within the immediate vicinity of the feature must be stopped until a plan to manage the feature is developed.

If a bear den tree is found, contact a Taan representative immediately. No action is to be taken on the newly discovered bear den until Taan has reviewed the den.

Species at Risk (plants & animals): there are no species at risk that have been identified in the vicinity of the cutblock.

STOP work immediately if any cultural features are discovered and report to Supervisor immediately. Features may include but are not limited to: CMTs or Shells exposed during excavation.

There are 2 monumentals (MT13M, MT12M) designated for harvest within the right of way or close to the R/W of the proposed roads. If required, a representative of the Cultural Wood Program and Taan must be on site for falling. Alternatively, specific written instructions may be provided by Taan for falling and bucking instructions. When the tree is felled, paint the tree with tree number the block name and date felled. Engrave the tree number with saw on butt of log. Handle all monumentals with care. The monumental will be hauled to the DLS for scaling and be temporarily stored.

If a CMT is encountered within the opening, whether alive or dead, standing or fallen, during any phase, logging will cease in the immediate vicinity of the CMT. Notification will be sent to Taan (Operations Manager), Natural Resources (MoFR, MSRM (Archeology and Registry Services Branch)) and the Haida Nation. Taan direction must be received prior to operations proceeding.

Pacific Crab Apple

Individual stems are to be retained where safe to do so. Do not use as punctcheon.

If a stem must be felled leave at roadside, for harvest by CHN, do not put into brush pile.

Blasting

Appropriate signage and closures are required.

RAINFALL SHUTDOWN CRITERIA

Dry Zone

Activities must shut down when (whichever occurs first):

- Total rainfall reaches 55 mm in 24 hours; or
- Water balance is ≥ 55 mm; or
- Rainfall since start of the shift is 40mm and continuing. Activities may start back-up when (whichever occurs first):
- Total rainfall is equal to or less than 30 mm in 48 hours or the water balance is < 55 mm.

QUARRIES, PITS, AND SPOIL SITES

DO NOT EXCAVATE A PIT, QUARRY OR SPOIL MATERIAL WITHIN THE RIPARIAN MANAGEMENT AREA (30m) OF ANY STREAM.

STREAMS

Creek I.D. CLASS MANAGEMENT STRATEGIES FOR RIPARIAN MANAGEMENT ZONES (RMZ) INCLUDING PROTECTING STREAM

6R1	Type 1	Install 1x5 WBC. No in-stream work. Fall and yard away. Hand clean introduced debris. Minimize sediment entering the stream.
5	Upland	Install CMP as per Road Design. No cleaning required
	NCDs	Install CMP as per Road Design. No cleaning required

1. Logs shall be decked perpendicular to the stream channel, stream flow will be maintained at all times, and any introduced materials will be removed immediately after loading.
2. Do not block or crush culverts with logs yarded to roadside – protect culvert openings and outflows.
3. No machinery is to be left parked within the RMA (30m) of any stream