

Eagle Mountain – Woodfibre Gas Pipeline Project (the Project)

EGP LODGE USE, MANAGEMENT AND ACCESS REPORT

**Document Number:
M0012-REG-REP-0001_R0**

Issue and Revision Record

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Table 1 - Concordance Table

District of Squamish Information Requested	Document Section
1. Site Plan	Appendix A
2. Construction Management Plan	Appendix E
3. Squamish Nation Engagement	Section 1.5
4. How will the camp operate	Section 2.0, 2.3; Appendix F
5. Will workers bring their own vehicles?	Section 4.2
6. Can workers come and go at all times?	Section 3.2
7. How will workers get to the work site?	Section 4.2
8. Expected vehicle travel counts daily and by season (normal vs peak)	Section 4.1
9. Expected supply/delivery vehicle impact.	Section 4.1
10. How will the existing gate on Powerhouse Springs Rd. be managed?	Section 3.1, Appendix H
11. How will vehicle public access to the area be mitigated/managed?	Section 3.1, 6.2
12. How will existing public recreation in the area be diverted?	Section 5.1
13. What mitigation measures will be in place to protect the District's Ground Water protection (P-6) zone where road access is proposed?	Section 6.1
14. What sustainability measures are in place to reduce the Carbon footprint of the operation?	Section 2.3
15. What is the expected impact to commercial, recreation and District existing services and resources with this size of work camp?	Section 6.2
16. Are there crime or social disruption considerations with this size of work camp? If so, what mitigation measures will be in place or increased resources provided?	Section 6.3
17. What is the alcohol policy of the camp?	Section 6.3
18. What is the waste management plan, its proposed impact to landfill and considerations for waste mitigation?	Section 6.4
19. What is the emergency management plan? Are District Fire or emergencies services required to access the site?	Section 6.5

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DEVELOPMENT SUMMARY

Development Name:	EGP Temporary Workforce Lodge
Location:	E492989, N5508611
Lot size:	7 hectares
Landowner:	Lafarge Canada Inc.
Landowner Approval:	Yes
Gross Floor Area:	145,800 sq ft
Parking Stalls:	325 parking stalls Bus/shuttle parking/drop off area: ~ 8 buses
Loading Stalls:	Covered 240 sq ft loading dock in the core complex
Number of Beds	576 beds, with option for 36 beds additional beds

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1.0 INTRODUCTION

1.1 Purpose of this Document

FortisBC Energy Inc (FortisBC) has prepared this report to support the District of Squamish Temporary Use Permit (TUP) application for a temporary workforce lodge related to the construction of the Eagle Mountain – Woodfibre Gas Pipeline (“EGP”) Project. FortisBC is seeking to locate a temporary workforce lodge on private land in the eastern part of the District of Squamish from mid-2023 to end-2025. The lodge will support the housing of the temporary construction workforce in the Squamish area and reduce EGP Project impacts to Squamish area housing, services, and infrastructure.

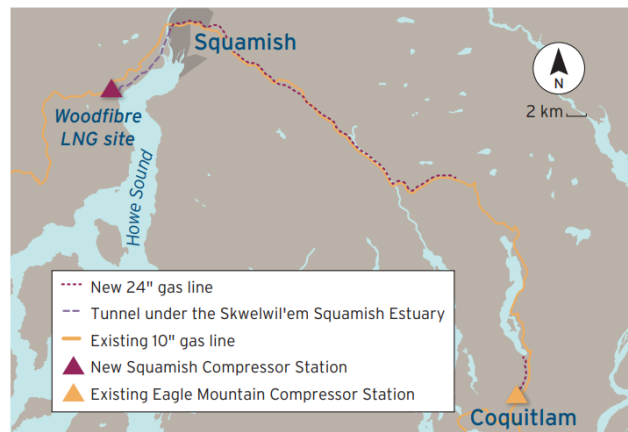
The purpose of this report is to highlight key details related to access, use and management of the proposed lodge development and operation as requested by the District of Squamish, with additional technical detail provided in the appendices. Documents in the appendices are provided in draft for indicative purposes and are subject to refinement as execution planning continues (e.g., lodge size, schedule are subject to change).


This document should be read in conjunction with the separate Environmental Report that also supports the lodge TUP application. A Detailed Site Bio-inventory of the proposed lodge site was completed and is summarized in the Environmental Report. The Environmental Report outlines the biophysical inventory methodology, summarizes the existing conditions of the proposed site and surrounding 100 m, and outlines potential interactions with Environmentally Valuable Resources, as well as site-specific mitigation and restoration strategies for minimizing potential impacts. This document should also be read in conjunction with the separate Transportation Impact Assessment report, which reviews background traffic conditions and estimates the temporary traffic generated by the pipeline construction and the temporary workforce lodge in District of Squamish.

1.2 EGP Project Overview

The EGP Project will expand a portion of the FortisBC existing natural gas transmission system, which was built in 1990 to serve Squamish, the Sunshine Coast, and Vancouver Island.

The EGP Project involves the construction of one approximately 47 km long 24-inch (Nominal Pipe Size [NPS] 24) diameter natural gas pipeline and associated infrastructure (including shorter NPS 10 looping and lateral pipelines, a second NPS 24 pipeline through the tunnel portion and a 3 km pipeline loop in Coquitlam, BC). The proposed pipeline will generally parallel (i.e., loop) FortisBC’s existing Vancouver Island pipeline from the existing Eagle Mountain Compressor Station in Coquitlam, BC to the Woodfibre Liquefied Natural Gas Ltd. (WLNG) site on the northwestern shore of Howe Sound.



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The proposed pipeline is intended to provide natural gas to the proposed WLNG export facility. The Project was approved in 2016 by the BC Environmental Assessment Office and Skwxwú7mesh Úxwumixw (Squamish Nation). FortisBC has been engaging with Indigenous communities, and the Squamish and Coquitlam communities on the project since 2013, and engagement is on-going.

FortisBC is currently seeking two amendments to its existing approvals: to increase the size of the workforce lodge to seven hectares and to re-route approximately two kilometres of pipeline within the Indian River Valley.

Construction is anticipated to take place between 2023 and 2026, with the bulk of active construction starting to ramp up early 2023 and continuing through end-2025 with reclamation occurring into 2026.

1.3 Anticipated Project Workforce

The Project requires a significant workforce during the construction phase. The approach to worker accommodation has an important logistical function in terms of ensuring workers are available at the times and locations required for construction and ensuring the Project can retain a skilled workforce. While it is a goal to provide opportunity to the greatest extent practical for local and regional participation in the construction employment, in light of labour force capacity constraints in the Squamish area, the Project anticipates a non-local workforce in the Squamish area as outlined in Figure 1.

Based on the histogram in Figure 1, the average loading for non-local workers, based on a June 2023 lodge occupancy date, is anticipated to be approximately 300-400 workers on average during 2023 to 2025, peaking at approximately 600 workers for a period in summer 2025.

Given the constraints in the Squamish area housing market, and feedback regarding the importance of commercial accommodation availability for tourists, the EGP workforce lodge will be sized at approximately 600 beds (576 beds with option for additional 36 beds) to accommodate the majority of the anticipated non-local Project construction workforce in Squamish.

The lodge size of 576 beds has capacity for the anticipated non-local construction workers that includes 10% of the monthly capacity for lodge staff. The lodge proposal includes an option to install a standalone additional 36-person dorm to accommodate peak construction workforce plus lodge support staff if needed.

Construction of the lodge will require at peak 60 workers, who will be accommodated at local hotels and shuttled by bus to and from the lodge site. During lodge operations, lodge staff are anticipated to be about 10% of lodge occupancy (so at peak occupancy the lodge would have 60 workers), who would reside at the lodge if non-local.

The occupancy of the lodge is currently planned to coincide with the start of construction of the pipeline component of the project.


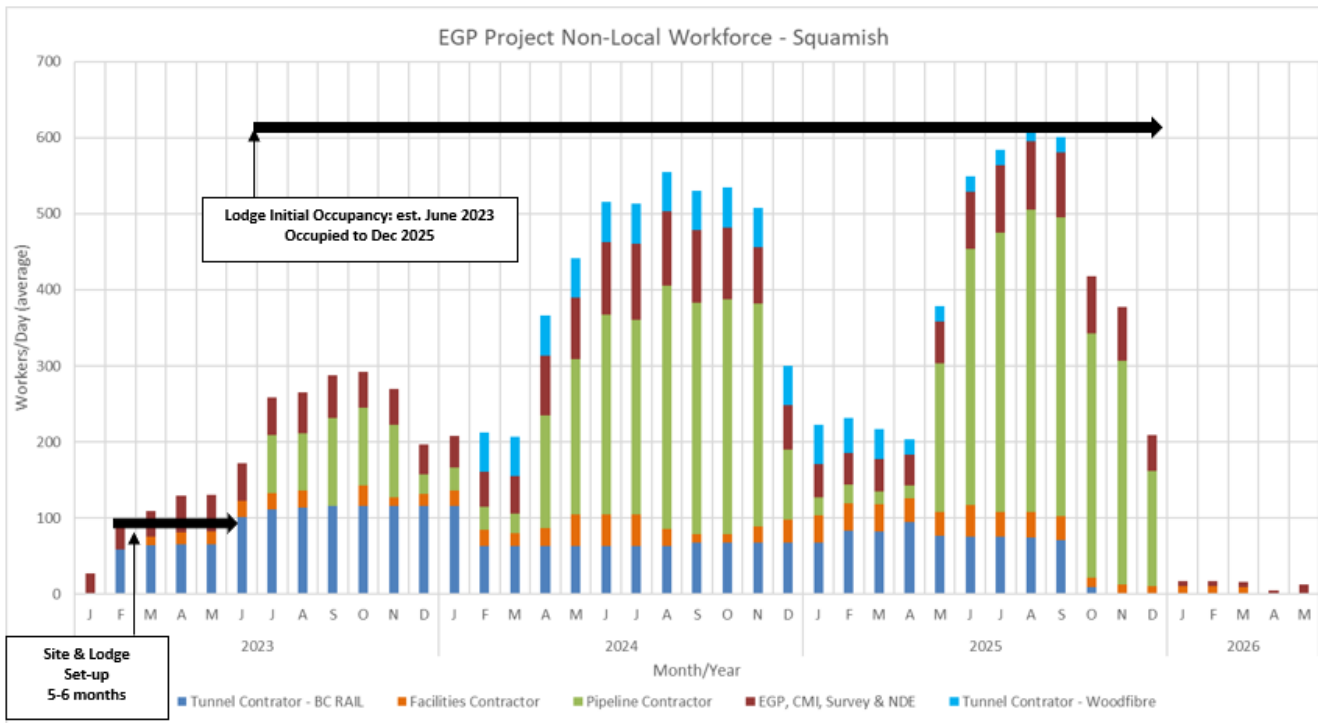
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Figure 1: EGP Project Anticipated Non-Local Construction Workforce, Squamish Area*



*Schedule and workforce are subject to change based on regulatory approvals and detailed planning.

The decision to increase housing for non-local workers at the lodge is a response to public and Indigenous nation engagement discussions on the topics of housing affordability and availability. Concerns have been expressed that there is a lack of rental housing and temporary accommodation options in the District of Squamish area. Increasing the size of the lodge will address concerns regarding housing availability and affordability by increasing the supply of temporary accommodation.

1.4 Lodge Site Location

The Lodge location is on a 7-hectare site on Lafarge Canada Inc. (Lafarge) property in the District of Squamish (E492989, N5508611). The site is located within a cleared forestry cut block on relatively flat terrain that is covered in shrub and young tree regrowth. Figure 2 shows the proposed lodge site location in relation to the Squamish area.

Access will be from Highway 99, the Mamquam Forest Service Road (FSR), Powerhouse Springs FSR, and a proposed new 1.2 km site access road. Site access is discussed in more detail in Section 3.1. A detailed site map is shown in Appendix A.


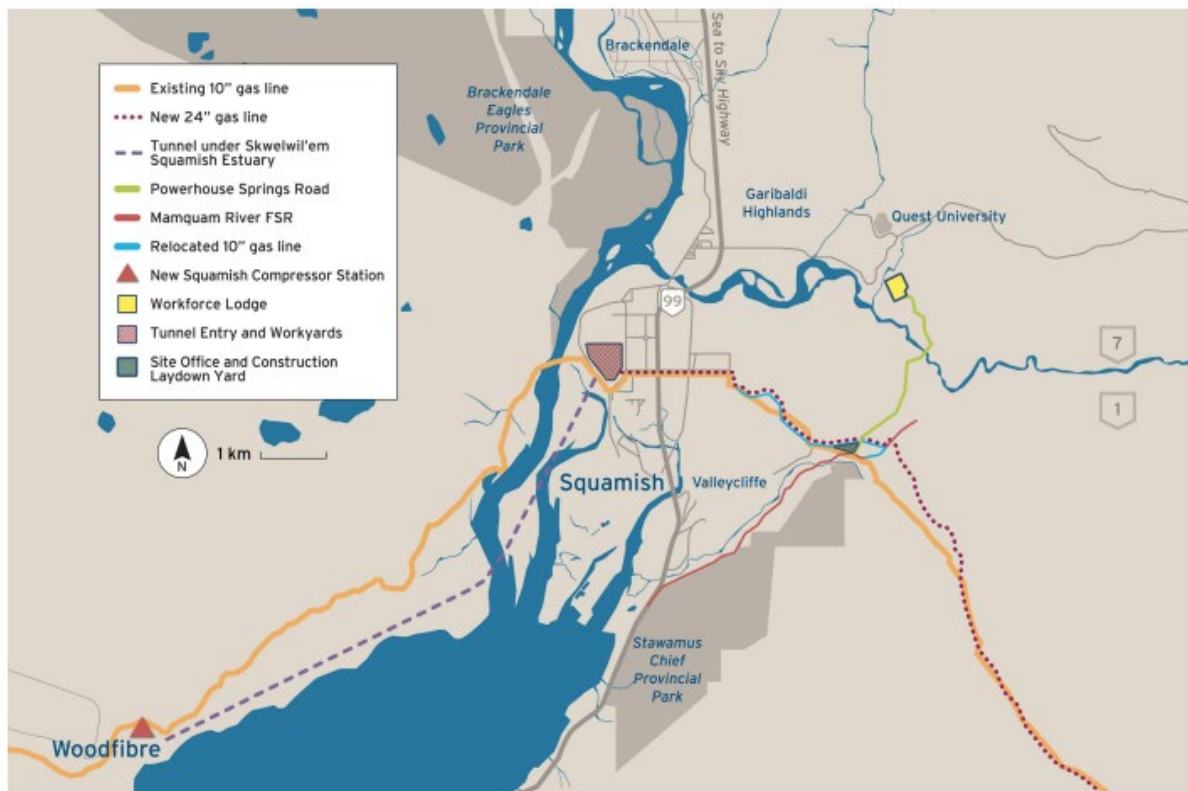
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Figure 2 - Lodge General Location, Squamish Area




1.5 Squamish Nation Engagement

FortisBC has extensive and ongoing engagement with Squamish Nation regarding the EGP Project, including specific engagement on the proposed Temporary Workforce Accommodation (TWA) or lodge. Squamish Nation has reviewed FortisBC’s application to expand the total allowable footprint of the lodge as part of the Environmental Assessment amendment process and as part of the independent Squamish Nation Environmental Assessment Agreement process. While the substance of Squamish Nation’s input is confidential per the Agreement, FortisBC has been working in an ongoing and collaborative manner through the FortisBC-Squamish Nation Environmental Working Group, which will continue during construction, to consider Squamish Nation interests including Squamish Nation private land holdings located near the proposed lodge site.

2.0 LODGE OPERATIONS OVERVIEW

The EGP Workforce Lodge will be a full-service, self-sufficient, turnkey, modular temporary accommodation commissioned and rented by FortisBC (the owner) and built and operated by an experienced lodge operator, ATCO (the operator).

The proposed EGP workforce lodge will be a temporary(short-term) industrial lodge consisting of a

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single-storey, wooden structure complex that is set on wood crib foundations, and it will have a gross floor area of approximately 145,800 sq.ft.

Fully serviced lodges are a critical component of a worker accommodation strategy for Projects in smaller communities will less available temporary or commercial housing (e.g., rentals, hotels) in order to limit pressure on local housing and services.

FortisBC will develop and prepare the site, creating a “pad” on which the temporary structures can be located. When the pad is prepared, FortisBC will turn the site over to ATCO who will then supply and install the Lodge facilities and operate the Lodge for the duration of EGP Project construction. ATCO will decommission all installed facilities once the EGP Project construction is completed.

The guests in the lodge will primarily be workers from the construction contractors working on EGP Project, with some EGP Project managers, inspectors, and support personnel.

The number of lodge operations personnel is anticipated to be approximately 10% of the lodge occupancy. These personnel will be housed at the lodge if non-local.

There are three broad phases related to operations of the lodge: site preparation; lodge construction; and lodge operations.


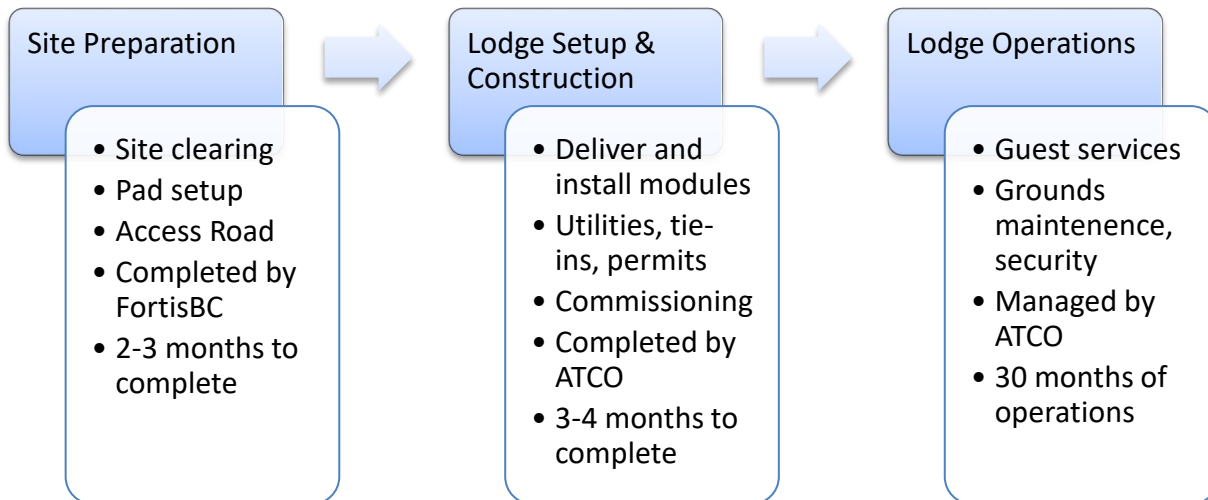
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Figure 3 – Lodge Phases*



**time to complete each phase is an estimate, subject to change; phases may overlap*


2.1 Site Preparation

FortisBC will conduct site preparation. Upon receipt of all Temporary Use Permits and regulatory approvals, FortisBC will engage a qualified contractor to complete the civil works required in advance of mobilizing the lodge to site. FortisBC confirms that commercial negotiations are nearing completion with the site owner (Lafarge) for the lodge, and FortisBC has agreements in place for road use along Powerhouse Springs FSR and Mamquam FSR.

Civil work consists of constructing a new access road approximately 1.2 km long to the lodge site, as well as site leveling of approximately 7 hectares for the Lodge. See Appendix C detailing road and site design. Civil work includes brushing, clearing, and grubbing, excavation and fill of material to provide a level site, installation of site-specific crossings across water courses and appurtenance crossings, sedimentation control, erosion control as well as disposal of excess material.

Upon completion of the civil work, FortisBC will install site perimeter fencing as shown in the site drawings in Appendix B and Appendix C.

Civil work and site preparation is expected to be completed within about two to three months.

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2.2 Lodge Setup and Construction

Lodge construction will include the supply, delivery, assembly, installation/construction, inspection, testing, pre-commissioning, and commissioning of the Facilities to accommodate and house FortisBC, Project contractors and their respective personnel, suppliers and their respective personnel while on-site during the construction of the EGP Project.

ATCO will be installing a total of 16 dormitories, each with 36 rooms for a total capacity of 576 beds. These dorms will be laid out in two wings and interconnected through an arctic corridor to a 35-unit Core building containing the main entrance, reception and administration offices, a sizeable mudroom, kitchen, food storage and dining areas. In addition, a 13-Unit recreation building will be attached through the arctic corridor and will house a lounge area, mini-theater, games room and a gym. All the facilities to be installed are used units which will be rented by FortisBC for the duration of the EGP Project.


If peak capacity is anticipated to extend beyond 576 beds, the lodge provider can install an additional 36 room dorm to accommodate peak loading.

Overall, lodge construction execution will consist of transportation of used modular units to the laydown area, shunting of units from the laydown area to the camp construction site, craning, setting, assembly and complexing (including any required retrofit of any modular units), testing and commissioning, and turnover of the facility to ATCO operations team for general cleanup in preparation for occupancy.

Specifically, lodge construction will involve the following:

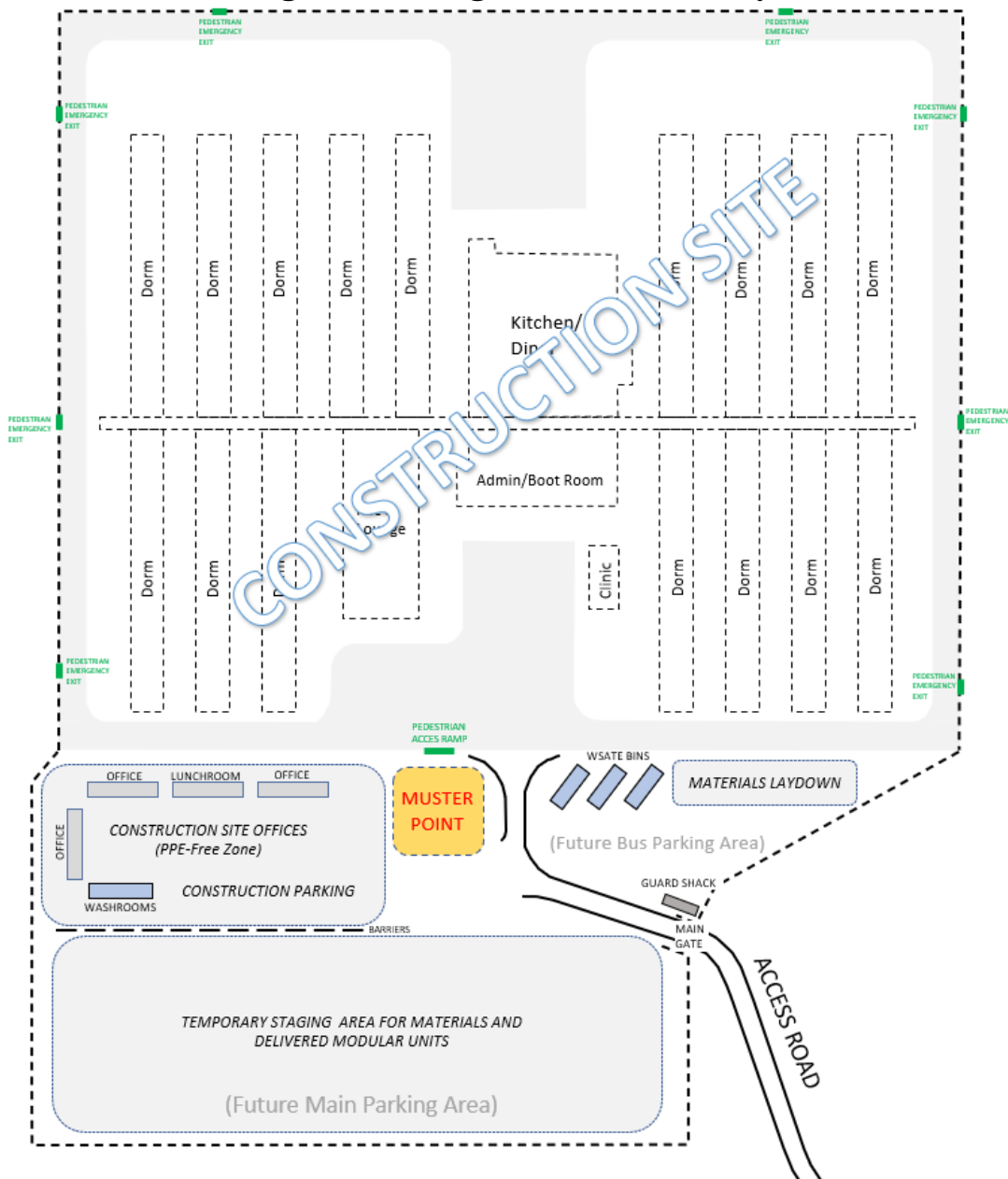
- Supply and transportation of all modular units;
- Supply and installation of wooden crib foundations;
- Installation of sixteen (16), 36-bed dormitories, each with perma-walk corridors and eight premanufactured modular units per dorm; total of 128 dorm units;
- Installation of an Arctic Corridor (AC) to interconnect the dorms, the Core complex, and the Recreation building; total of nine AC units;
- Installation of a 35-unit Core complex (Kitchen/Dining/Admin/Boot room) at the central portion of the lodge AC which will also have the main entrance and reception area;
- Installation of a 13-Unit Recreation complex;
- Installation of a 2-Unit medic facility (clinic);
- Design, supply and installation of required utilities and tie-ins/interconnections for mechanical (water, sewage & gas), fire suppression (sprinkler and hydrants), electrical, fire alarm and data/communications systems.


For more details, see EGP Workforce Lodge Construction Execution Plan in Appendix D. Figure 4 depicts how the lodge modules and buildings will be constructed on the site and site layout during construction. The lodge set up and construction is anticipated to take three to four months. Subject to all required approvals, initial lodge occupancy is anticipated in June 2023, with full occupancy anticipated in October 2023.

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As part of preparing for lodge commissioning and operations, ATCO will secure the required operational permits, including permits related to buildings, waste, drinking water supply, food premises, gas, electrical, liquor license.

Figure 4 – Lodge Construction Layout



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2.3 Lodge Operations

The operation of the lodge is prescribed as a regulated activity under B.C.'s Public Health Act, and the lodge will operate according to requirements under the BC Industrial Camp Regulation.

Upon opening and occupancy, ATCO will manage the full-service lodge operations which will include the following aspects:

- Food Services, dining room
- Housekeeping Service
- Janitorial Service
- Front Desk and Reception Services (24/7)
- Lodge Maintenance
- Roads and Grounds Maintenance
- Utilities (TV, internet, public phones, water, sewage, solid waste, propane, electricity)
- Security personnel (24/7)
- Health and medical personnel
- Laundry Service
- Provision of commissary / vending services
- Drug and alcohol-free lodge. Non-smoking rooms. Operation of a licensed lounge.
- Recreational complex, including:
 - Lounge area
 - Games area
 - Workout area/Mini-Gym
 - Movie or multipurpose room


The lodge site will have a main parking area (325 stalls) and a bus/shuttle parking & drop-off/pick-up area. In addition to the main parking area, FortisBC has allocated an additional overflow parking adjacent to the proposed construction yard that is anticipated to have over 350 additional parking stalls available.

All buildings will have adequate fire alarm and fire protection systems, as well as strategically located emergency exit points. A covered, 240 sq.ft. loading dock is also included in the core complex for the safe delivery and offloading of food supplies and materials.

Health and medical services will be in an on-site clinic area, and will be appropriately scaled in consultation with the Vancouver Coastal Health. There will be medical personnel on-site; medical emergency response protocols; communicable disease control protocols; as well as health and wellness promotion programming including related to mental health and sexual health.

The lodge will have modern recreational facilities including equipped workout room and a games room and entertainment area with large screen TVs. The dining area and kitchen will meet industry standards. Laundry facilities will meet industry standards.

Lodge rooms will ensure privacy and security of residents, with single rooms with a private

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washroom/shower unit, Wi-Fi, and a modern TV.

There will be a strong data network system, wireless network coverage and cell service so workers can maintain family and social connections and maintain on-line work functionality;

ATCO will establish and oversee lodge rules that will ensure the lodge site is free of any violence, harassment, illicit drugs, or firearms in accordance with industry requirements and the EGP Project Worker Code of Conduct. Lodge rules will be included in the required lodge registration and orientation. ATCO will implement a lodge committee as a mechanism to proactively address service issues in and related to the operation of the lodge.

The lodge will have security twenty-four (24) hours per day, seven (7) days a week. Security will be available day and night to respond to emergency calls and assist guests at any time. Security calls will be handled in a confidential manner.

The lodge will also have cultural awareness information to ensure workers are aware of the culture, values and sensitivities of the Indigenous community on whose traditional territory the lodge is located. This will support diversity, inclusion and respect in the living environment. This may include cultural information in the lodge welcome package; signage/video materials in common space(s); elder in-residence position; and time-to-time cultural events.

The lodge will also operate under the occupational health and safety requirements of WorkSafeBC, guided by the Health, Safety and Environment Manual of the lodge operator and a Project-Specific Safety Plan.

Site renderings are found in Appendix C. For more details on how the lodge will operate, see Appendix E Lodge Operations and Amenities Plan. See Figure 5 for the lodge site layout during operations.

Regarding measures to reduce carbon footprint during the lodge operations, it is FortisBC's preference to connect the lodge to BC Hydro power where feasible. FortisBC is pursuing the option of interconnecting the lodge with BC Hydro's highline power in the area. The lodge will be designed with a temporary power generation system with LPG fueled (low emission) generators. Should connection with existing highline power be established, generators would be transformed into a backup system. In addition, specific measures the lodge contractor will implement to reduce emissions during operations include the following:

- Lodge heating controlled at 19-21C; all thermostats locked and controlled by maintenance;
- All vehicles/equipment and third-party equipment must not be idling at any time
- Per Lodge Rules, guest vehicles cannot be idling at the lodge amp premises
- Kitchen propane equipment is used just during food production
- Potable water usage is controlled by shower head reducers and tap reducers
- Use of high efficiency/low water usage dishwashers.

While specific design details have yet to be confirmed, through the use of a larger lodge, FortisBC and its contractors have the ability to manage GHG emission sources with the use of the most efficient equipment models available.


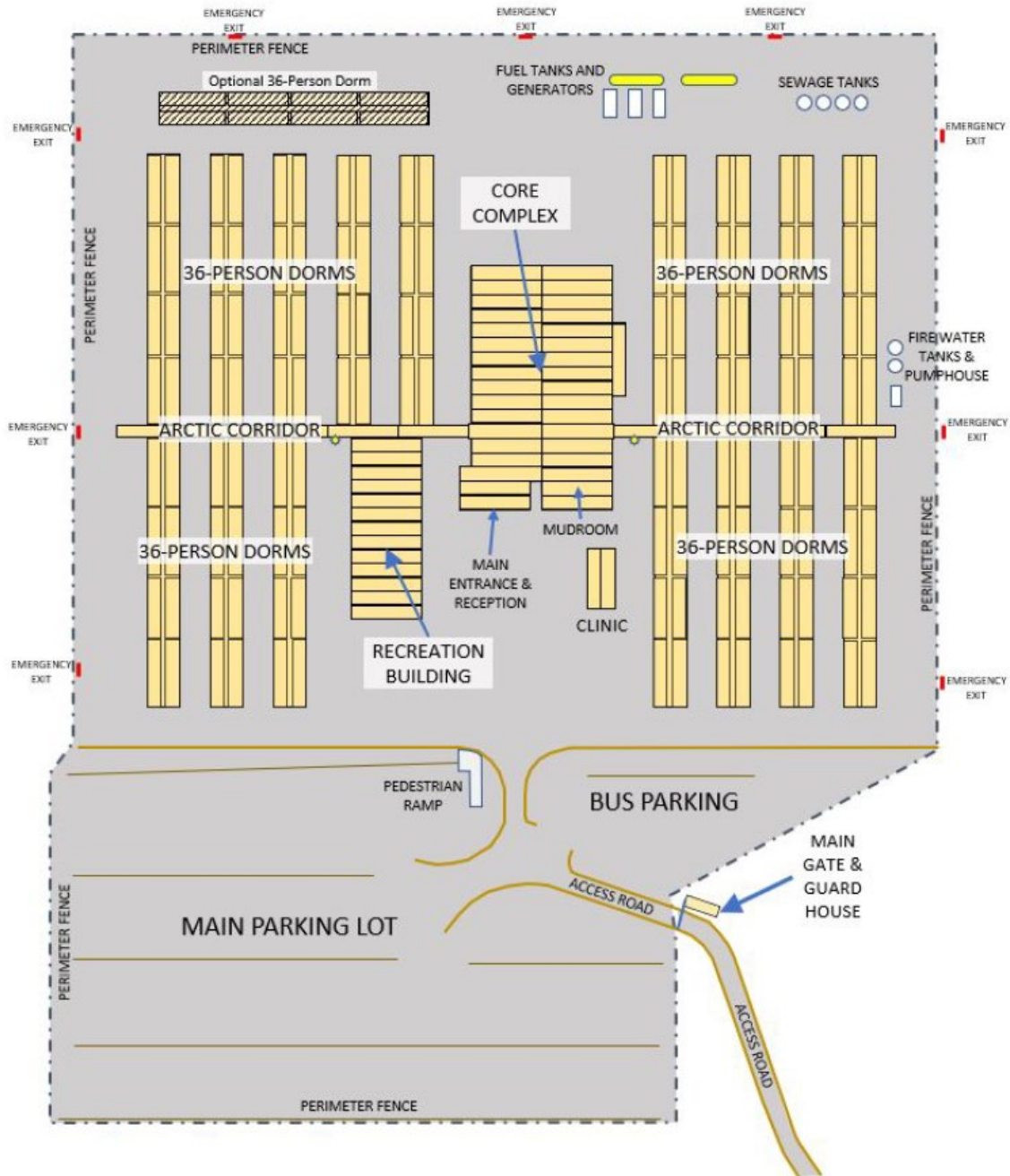

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Figure 5 –Site Layout During Lodge Operations



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2.4 Lodge Decommissioning and Site Reclamation

FortisBC will be responsible for site reclamation that includes Lodge decommissioning and site remediation.

Upon lodge closure, ATCO will remove all buildings, temporary foundations, utilities, and other above-ground appurtenances from the site.

FortisBC will be responsible for removal of fencing, lodge pad reclamation as well as access road decommissioning and reclamation and any other site reclamation required.

FortisBC will work closely with the landowner on reclamation options to ensure the site is returned to its owner in agreeable condition. Reclamation options may include a) reclaim to preexisting conditions including vegetation replanting; or b) if desired by the landowner, leaving the site pad and access road in place to support future economic development activity.

3.0 SITE ACCESS

3.1 Site Access

The lodge location is on a 7-hectare site on Lafarge property in the District of Squamish. The site is located within a cleared forestry cut block on relatively flat terrain that is covered in shrub and young tree regrowth. Figure 2 in Section 1.4 shows the lodge site location in relation to the Squamish area.

Access will be from Highway 99, the Mamquam FSR, Powerhouse Springs FSR, and the new proposed 1.2 km site access road.


To ensure public vehicle access is restricted to both the District of Squamish water wells and infrastructure as well as Atlantic Power’s facility, FortisBC intends to remove the existing gate on Powerhouse Springs Road and install two new security access gates, similar to the existing gate currently along Powerhouse Springs Road, that will be installed further north to prevent public access into those facilities. FortisBC will work with the District of Squamish and Atlantic Power to ensure the appropriate gate and locking mechanism are compliant with their needs.

Figure 6 below shows details of the location of the new access road.

See Appendix F for Access Road Civil Drawings.

See Appendix G for Lodge Access Road maps showing recreational trails, water courses and the location of the access road in relation to the Powerhouse Spring Well as well as the proposed new security gates described above.

As shown in the detailed map in Appendix G, the new access road does not directly impact the Powerhouse Spring Well, the main source of potable water for the District of Squamish. The access road is about 106 metres from the Powerhouse Spring Well at its closest point, and approximately 239 metres

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away from the Powerhouse Springs well at the approximate starting location of the new access road. Access to this area will be prevented by the new proposed security gate.


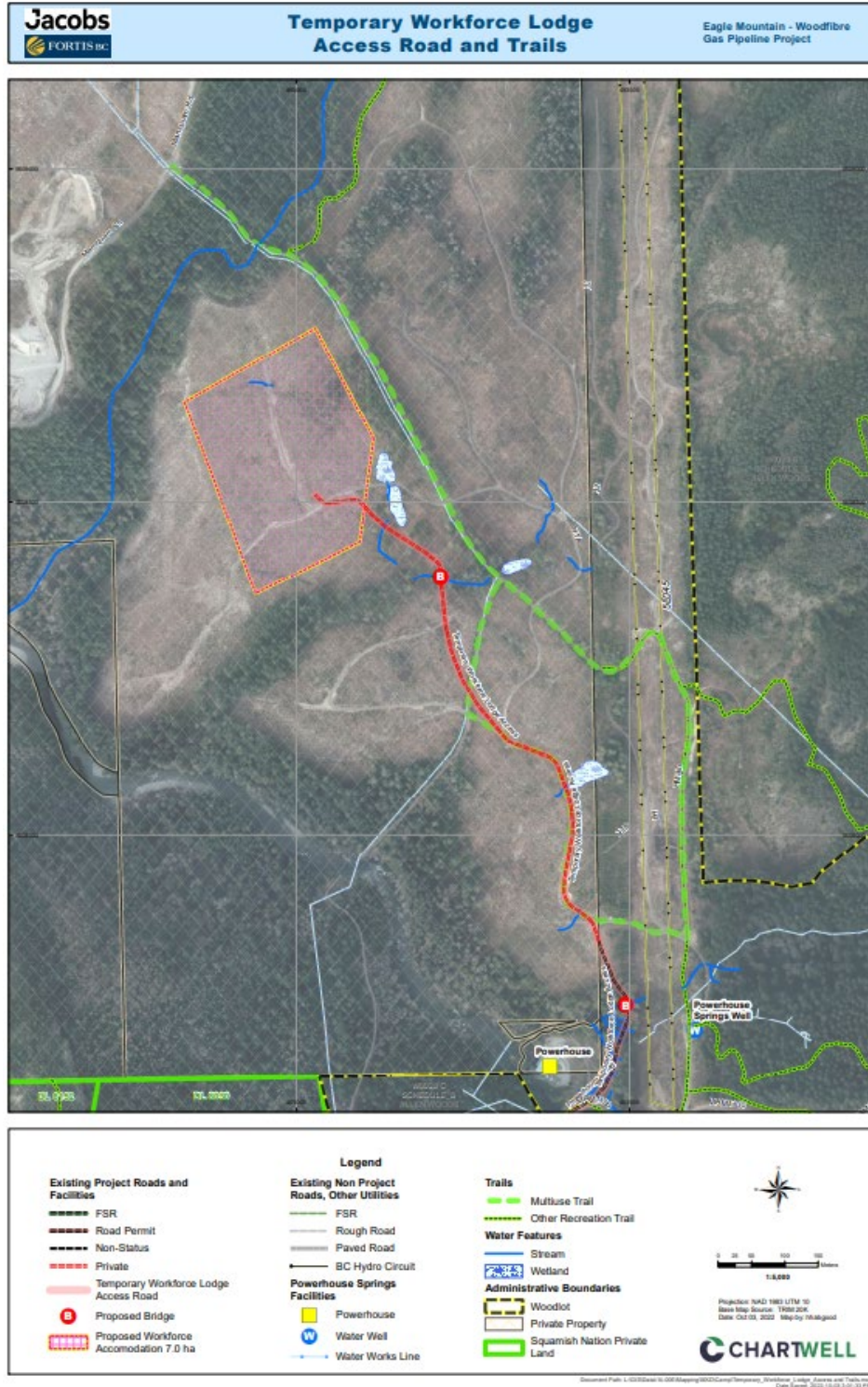

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Figure 6 – Lodge Access Road



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3.2 Security

Site access will also be managed through security protocols. Security planning is an essential component of lodge operations to support site and asset safety as well as safety of the workforce and community. Implementing an effective combination of administrative (rules, policies, regulations), physical (security guards, barriers, access management) and technical (cameras, sensors, etc.) controls to ensure public and worker safety is the foundation of the lodge security management program.

The lodge will feature ongoing, 24/7 security guard deployment. All security guards working at the lodge must hold a valid BC Security Licence, comply with the BC Security Services Act, and be in good standing with the applicable regulatory authorities.


These individuals' duties include, but are not limited to:

- Proactive rule and policy enforcement
- Administering the access control program at the entrance and verifying authorization to enter the premises. Any individuals not actively working on the project or approved service providers (ex. camp staff, food delivery, etc.), are strictly prohibited from entering.
- Roving patrols (vehicular, on-foot, etc.) to ensure site integrity and identify any abnormal or suspicious activity both indoors/outdoors.
- Video management and detection system monitoring and response
- Primary liaison with RCMP or other agencies as required
- First response to any reported safety/security related issues on the premises

Fencing and perimeter protection are considered primary physical components of the security plan. Perimeter protection will be fit for purpose, maintained in good condition, and avoid gaps in gates and beneath fence-lines to prevent entry. A clear zone must be maintained on both sides of the perimeter, free of obstructions, vegetation, or objects that could be used to scale a fence or provide obscurity for an extended period of time. As part of the access control strategy, entrance for vehicles and personnel will be relegated to one location, where security guards will screen each entrant and vehicle for approved access prior to permitting entry.

Sufficient area lighting for human and technological (i.e., camera) recognition will be deployed, with an emphasis on the following areas:

- Entrances/egress locations
- Parking areas
- Structures on premise

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The lodge site will feature a video management system. The Contractor must ensure that any deployment is fit for purpose and maintained in good working order. Each instance of video surveillance will comply with applicable privacy legislation.

The Contractor is to provide appropriate safety and security-related signage. Signage must be clearly and securely posted at appropriate intervals and points of entry, as well as all places employing monitoring or video surveillance technologies. All signage must meet the requirements of applicable Governmental Authorities. Signage at main entrance points must also provide emergency contact information, as well as the 24/7 security telephone number.

Lodge security will do checks upon entry to ensure each person gaining access to the site they are an authorized guest at the lodge. Lodge security will track vehicle movements in and out of the lodge site.

Authorized visitors at the lodge would be visiting Project personnel or required lodge maintenance, delivery or other operations-related personnel only. Guests are not permitted to have social or personal visitors at the lodge site.

4.0 TRAFFIC AND TRANSPORTATION

4.1 Anticipated Traffic Volumes

Traffic volumes attributed to construction will primarily be between the proposed lodge and the construction yard, with between about 100 to 250 vehicle trips of construction workforce per workday in the morning (7:00 – 8:00 a.m.) and evening (5:00 – 6:00 p.m.) hour depending on the phase of construction/year. In addition, there will be 15-30 lodge supply/support vehicles moving in the opposite direction each morning and evening hour.


After meeting at construction yard, only approximately 40 vehicles are anticipated to proceed west to Highway 99 and the Sea to Sky intersection to support the tunnel construction and urban pipeline construction. The remainder of vehicles will proceed east along the FSRs toward pipeline work fronts in the Indian River Valley.

Expected traffic volumes to and from the lodge will vary depending on the stage of overall Project construction and the anticipated overall workforce. For the purposes of analysis, traffic analysis has been undertaken in three Phases: Phase 1 in 2023, Phase 2 in 2024, and Phase 3 in 2025 when peak construction workforce is anticipated.

Estimated vehicles include traffic related to

- movement of workers from the lodge site to the construction yard in morning and evening; and
- lodge support vehicles (e.g., supplies, maintenance, service) that will be travelling in the opposite direction as construction workforce traffic.

The highest number of workers and support vehicles in a given month during each year was used to determine the estimated number of trips generated per day during the morning and evening periods.

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The trip pattern of the workers during the morning study hour is expected to be such that workers will begin their trips from the workforce lodge and travel to the construction laydown yard, where a portion of workers will continue to make their way to various construction sites. The workers at the construction laydown yard will continue to the work sites as well. During the evening study hour, most construction workers at the construction sites will travel to the workforce lodge, while some will make a stop at the construction laydown yard prior to travelling to the workforce lodge. It is anticipated that each morning or evening trip will be completed within one hour.

The estimated number of vehicle trips per day is as follows:

- 2023: 115 vehicle trips per day (both morning and afternoon), of which 99 are construction workforce vehicles and 16 are lodge support vehicles)
- 2024: 182 vehicle trips per day (both morning and afternoon), of which 159 are construction workforce vehicles and 23 are lodge support vehicles)
- 2025: 249 vehicle trips per day (both morning and afternoon), of which 217 are construction workforce vehicles and 32 are lodge support vehicles).

The FSRs used by the Project will be improved to support construction traffic. This is anticipated to include grading to remove potholes and washboarding (i.e., corrugation or rippling of the road surface), as well as regular road maintenance during construction as required.

4.2 Worker Transportation


The lodge will accommodate the workforce that will be comprised of regional and provincial and in some cases national personnel to support the Project through multiple contractor entities.

Each contractor will employ a variety of strategies to minimize personal vehicles such as multi-passenger vehicles, shuttles, and buses to the extent practical. This will reduce impacts related to traffic volume, noise, road safety, and dust.

Provisions will be made to accommodate parking for every bed space available at the lodge so worker vehicles can be parked at the lodge or in close proximity to the lodge.

Traffic and site activity are expected to be busier during the morning hour typically from 7:00am to 8:00am. Generally, there will be less activity at the site and on the nearby roads throughout the day. Workers will be transported to and from the lodge to the work sites by multi-passenger vehicles, shuttles, and busses to the extent practical. Pick-up and drop-off of workers at marshalling areas will reduce traffic volumes and the potential for vehicle or wildlife interactions.

Pipeline workers will attend the site office and laydown yard for morning briefings ahead of going to their worksites, generally using Indian River FSR to access the Indian River Valley. At the end of the day, returning workers will typically head straight to the lodge. Tunnel and Facility workers will be transported to and from the lodge to their work site by multi-passenger vehicles and shuttles that will reduce traffic

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volumes and the potential for vehicle or wildlife interactions.

4.2.1 Worker Movement Off Duty

In addition to daily worker transportation during work hours, FortisBC will provide daily shuttle services for all lodge personnel, free of charge, into Squamish during off-hours. FortisBC and its contractors will publicize the “town shuttle” to the workforce within the lodge and strongly encourage its use.

FortisBC recognizes the importance of supporting worker mental wellness and recognizes that workers being able to be away from the lodge at times after long working hours in a safe and responsible manner is an important part of life balance. Workers may come and go from the lodge and visit the community during non-work hours. To support worker wellness, and to respond to engagement feedback about interest in having workers connect with local community and local businesses, the after-hours town shuttle service between the workforce lodge and key locations in town will be established.

Workers are permitted to bring and use their own vehicles, but they will be encouraged to use the town shuttle to the greatest extent possible.


Lodge security will log vehicle movements in and out of the lodge site.

To promote appropriate and desired interactions with the local commercial, recreation, and other Squamish services, FortisBC and ATCO will develop a community orientation package outlining information about the local context, amenities, services, and businesses that will be shared with lodge guests. This will include local services and businesses that would like to attract, and be promoted to, the visiting Project workforce. This may include information about local support services (e.g., mental health, addictions support, Howe Sound Women’s Centre) as available. It will also highlight any direction to non-local workers about which areas to avoid or local regulations and bylaws about outdoor recreational use.

The EGP Project Worker Code of Conduct has been established and sets out the standard of conduct expected of everyone engaged in work activity related to the construction. It notes that FortisBC expects all EGP Project workers to conduct themselves in an appropriate manner at all times, including after work hours, and including when travelling to or from the EGP Project workforce lodge site. EGP Project workers must comply with all applicable law. Worker use and enjoyment of the environment when off-duty must be in full compliance with all applicable laws and regulations.

Through the process outlined in the Community Services and Infrastructure Management Plan, FortisBC will monitor and follow-up as appropriate on community feedback themes emerging from engagement or calls/complaints received through the EGP Project phone line, including any identified related to presence of workers in the community including driving conduct.

FortisBC will engage with Indigenous nations, local RCMP, and local women's resource organizations during construction and respond to any issues raised. The Community Table sessions are anticipated to continue during construction as a way to garner feedback on any emerging issues and adaptive

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management needs during construction. This includes community impact issues related to the lodge operations or worker conduct.

Overall, the lodge will result in a decrease in Project-related impacts to local traffic in Squamish as workers will not be commuting from individual hotels or accommodations within the community to the marshalling yard each morning. While there will be an increase in traffic related to the transportation of personnel, supplies and equipment to and from the lodge site, it will mean less overall Project traffic each day in town. As noted, the use of daily shuttles from the lodge to the worksite and the availability of after-hours town shuttle will reduce traffic on the roads in and around the lodge site.

5.0 HUMAN OCCUPANCY AND RESOURCE USE

There are several human occupancy and resource uses identified in proximity to the proposed lodge site and access route that may interact with the proposed site.


5.1 Outdoor Recreation Use

While the lodge and access road are not located within a provincial or federal park or a protected area, there is recreational use in the area. Public recreation in the general area is not anticipated to be diverted and is anticipated to be able to continue in the area during lodge operations.

The FSRs used to access the lodge location are resource roads built for industrial purposes to access natural resources and are used primarily by industrial vehicles engaged in forestry. In addition, these resource roads are used by the general public and commercial operators and serve as a link to access recreational opportunities. Existing gravel roads are present within the area and are used by recreationalists (e.g., dog walkers, mountain bikers, dirt bikers). There are multiuse trails identified in proximity to the lodge, as shown in Appendix H, mostly located to the east of the proposed access road and site. The proposed new lodge access road follows an existing trail, which would be diverted from other use during the construction and operation of the lodge, but other known trails are not impacted and public recreation in the general area can continue during lodge operations.

Construction of the lodge as well as site servicing and transportation of personnel during lodge operation may interact with recreationalists that use the FSRs, resulting in some experiences of increased traffic, dust and traffic-related noise during the Project construction. However, the FSR will be used for pipeline crews irrespective of the lodge in this location, as it is a key route for crews to get to pipeline worksites in the Indian River Valley. The lodge construction/set up period with the movement of modules and equipment into the proposed site will create a short-term period of incremental traffic on the FSRs. EGP Project will acquire Road Use Agreements with road permit holders for roads and will meet all requirements of those agreements.

Dust control measures are noted in the EGP Project Construction Environmental Management Plan, which may include application of water or a biodegradable, nontoxic and environmentally safe product, such as Fusion Dust Control that works by coating and binding surface material, unlike dust control calcium chlorides which work by holding moisture in the roadbed.

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FortisBC is aware of the proposed Squamish Canyon project, and that future visitors of the development would also travel along the Mamquam Forest Service Road and Powerhouse Springs Road to get to the outdoor attraction. FortisBC is in discussions with the proponents for the Squamish Canyon project, as well as the District of Squamish and the Ministry of Transportation and Infrastructure, on how best to coordinate use of the FSRs.

FortisBC representatives have experience on other projects with workforce lodge facilities and note that personal vehicle traffic is minimized by designing the lodge with modern facilities including laundry, recreation, lounges, and entertainment options such that workers’ daily needs during can be met within the lodge rather than travelling into town for incidentals.

To address concerns about potential impacts related to after-hours personal vehicle traffic, FortisBC will also provide daily shuttle services for all lodge personnel, free of charge, into town during off-hours (discussed further in Section 4.2 Worker Transportation).

FortisBC will let the community know ahead of time when trail closures are needed.

As noted in the EGP Project Traffic Control Management Plan, the lodge contractor (ATCO) will have a Contractor Public Information Plan to identify actions and procedures for informing the travelling public, businesses, and road authority(ies) of current traffic operations and planned changes to traffic operations.

FortisBC is developing a recreational coordination strategy, to guide communication with area recreational organizations regarding Project construction activities and to consider opportunities to enhance trail systems where feasible.


5.2 Residential Use

The Mamquam FSR, which would be used by Project-related vehicles to access the lodge site, is located to the north of the residential area of Valleycliffe; the residential roads of Cherry Drive and Balsam Way are the most proximate to the FSR, buffered by a treed area. Residents in these areas may experience increased sensory disturbance (e.g., noise, dust) related to Project-related traffic utilizing the FSR primarily during the morning travel hour and evening travel hour.

FortisBC has engaged with residential stakeholders about their interests and held an open house for the Valleycliffe residents to inform them about FortisBC’s plans regarding a pipeline construction laydown site and the workforce lodge and receive their feedback. Key themes that were discussed during the Valleycliffe open house included: road use, dust, traffic volumes, traffic safety, road condition, benefits to local economy, drug and alcohol policy at the lodge, workers use of community facilities and services, and lodge security. Mitigation measures related to these issues are discussed throughout this report.

5.3 Quest University

FortisBC has met with Quest University to discuss worker and student safety, particularly in relation to student use of pathways near the proposed lodge for recreation which are accessed using a walking bridge across Carpenter Creek. FortisBC is developing a Worker Code of Conduct and has a range of

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proactive, cross-functional management strategies to support a safe and secure environment for those residing in the lodge and nearby communities. The EGP Worker Code of Conduct has been finalized and is available [here](#). See discussion of management strategies related to Community Safety in Section 6.3.

6.0 COMMUNITY SERVICES AND INFRASTRUCTURE

The effects of the Project on community services and infrastructure were assessed in the Environmental and Socio-Economic Assessment during the original application to the BC EAO. The proposed expanded lodge size located in proximity to the District of Squamish is a response to stakeholder and community feedback regarding limited housing capacity in Squamish, and in itself is anticipated to reduce Project impacts on community services and infrastructure.


6.1 District Groundwater Protection Zone

As discussed in the separate Environment Report, approximately 300 metres of the proposed temporary access to the proposed lodge crosses a Groundwater Protection Zone which also encompasses the Powerhouse Springs well field. This well field is associated with the Ring Creek Aquifer and is used as a source of water for the District of Squamish. The Environmental Report describes the interaction of the 300 metres of proposed temporary access within the Groundwater Protection Zone, provides a mitigation strategy for avoiding potential impacts to the aquifer, and refers to the applicable EGP Project Condition Management Plans. The mitigation strategy focuses on spill prevention measures and the need for engineering solutions to control groundwater discharge. Groundwater seepage will need to be managed during construction and operation of the proposed temporary access to maintain water quality and quantity. Water quality monitoring will be conducted prior to, during, and immediately following construction within watercourses, non-classified drainages, and springs. Comprehensive protocols for monitoring water quality are included in the EGP Project Fisheries Mitigation and Management Plan.

6.2 Commercial, Recreation and District Services

The full-service nature of the lodge is anticipated to reduce the overall impact of Project construction on commercial, recreational, and District of Squamish services. In general terms, the size of lodge in a location within Squamish is a mitigation enhancement to augment the housing capacity provided by the Project for its workforce and to reduce demand pressure on local housing, infrastructure, and services related to labour influx during construction particularly once pipeline construction commences.

Without the lodge, the non-local workforce would be residing in and around the Squamish community in commercial and other local accommodation and relying fully on local services while off duty. The lodge is an important mitigation to reduce Project impacts by providing services directly to workers. The lodge is located away from commercial and residential areas with District of Squamish, and will have full-dining and food services, appropriately scaled health and medical services, a commissary for incidentals, recreational amenities, and social programming to support the off-duty workforce. It is anticipated that direct interactions with community members will be reduced due to the self-contained nature of the lodge and reduced need for workers to enter the community for these services.

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While interactions will be reduced due to the full-service nature of the lodge, there will still be opportunities for workers to go to town to use commercial services and support the local economy. Workers will be free to visit the community during non-working hours. It is anticipated that there will be local economic benefits as a result the non-local workforce using local businesses from time to time. As noted previously, FortisBC will provide daily shuttle services for all lodge personnel, free of charge, into town during off-hours.

To promote appropriate and desired interactions with the local commercial, recreation, and other Squamish services, FortisBC and ATCO will develop a community orientation package outlining information about the local context, amenities, services, and businesses that will be shared with lodge guests. This will include local services and businesses that would like to attract, and be promoted to, the visiting Project workforce. This may include information about local support services (e.g., mental health, addictions support, Howe Sound Women’s Centre) as available. It will also highlight any direction to non-local workers about which areas to avoid or local regulations and bylaws about outdoor recreational use.

6.3 Community Safety


6.3.1 Lodge Strategies that Support Community Safety

The potential for construction phase impacts on community quality of life related to the presence of the non-local workforce was examined in the original EAC Application. As discussed in the EAC Application, the presence of a temporary workforce in smaller host communities during construction may have implications for adverse community-worker interactions and community quality of life. Transient workers may lack attachment to a community and often may not have family or regular community support in place during their time working on construction crews. These factors can result in non-local temporary workers being more readily drawn into socially disruptive behaviours. Further, the Project is aware of recent studies and public discussions about the particular vulnerabilities of Indigenous communities and Indigenous women and girls (e.g., National Inquiry on Murdered and Missing Indigenous Women and Girls, MMWIG). The Project also understands the possibility of issues related to temporary worker isolation, mental health support needs, lack of support/connection, and lack of cultural sensitivity and awareness that may contribute to potential for adverse community interactions.


Housing of more workers within the lodge environment is an enhanced mitigation which is anticipated to reduce the potential for social disruption over the approved scenario of workers residing in the community, as the lodge provides additional management oversight when workers are off duty as well as additional opportunity for services and support measures for workers.

Proactive, cross-functional management strategies have been identified that will support a safe and secure environment for those residing in the lodge and nearby communities. These proactive strategies respond directly to the MMWIG National Inquiry’s calls to justice for extractive and development industries related to considering the safety and security of Indigenous women and girls and related to anticipating and recognizing increased demand on social infrastructure and related mitigation measures.

The proactive, cross-functional management strategies that will be employed during lodge operations include:

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- The lodge will have appropriately scaled health and medical services, including health and wellness promotion programming including related to mental and sexual health; this will support the health and wellness needs of resident workers, and to limit pressure on local health and medical services. The Project will engage with Vancouver Coastal Health regarding the scale and scope of the health and medical services at the lodge.
- FortisBC, construction contractors, and the lodge contractor will have Employee Assistance Programs in place to support worker wellbeing, which will be available and promoted to their respective employees.
- The lodge will have modern recreational and leisure facilities (such as, workout room, games room, entertainment and television lounge) for off-duty worker use, to support worker recreation and wellness.
- To encourage desirable workforce engagement with the surrounding community and businesses, FortisBC will share with lodge residents a community orientation package outlining information about the local context, amenities, and businesses.
- FortisBC will require all workers to complete cultural awareness orientation at Project onboarding to ensure workers are aware of the culture, values, and sensitivities of the Indigenous nations whose Traditional Territory the lodge is located within. Within the Lodge there will be additional cultural awareness opportunities, which are anticipated to include cultural information in the lodge welcome package, signage/video materials, elder in-residence position, and time-to-time cultural events.
- The lodge operator will be required to provide social programming in the lodge environment to ensure residents have appropriate opportunity for leisure and social interactions and connection during off-duty times.
- The lodge will have strong data network system, wireless network coverage, and cell service so workers can maintain family and social connections.
- Lodge rules will be established to provide clear understanding regarding conduct expectations while residing in the Lodge, including matters related to drugs and alcohol, violence and harassment, speed limits, firearms and weapons and respectful behaviour, inclusion, and diversity.
- There will be 24/7 security at the lodge to ensure a safe and secure living environment and to limit security and policing interactions with the local community. The lodge security will address fencing, gates and access control, lighting, vehicle safety, perimeter monitoring and response capacity, and contraband detection and enforcement. Security will be available to walk workers to their dorms or vehicles.
- There will be a no visitor policy at the lodge, to underpin the safety and security of all guests. Guests are not permitted to have social or personal visitors at the lodge site.

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- The lodge operator will have a confidential reporting line within the lodge to ensure any concerns or incidents regarding security, conduct or service issues associated with the lodge can be reported and addressed quickly.
- FortisBC will engage with Indigenous nations, local RCMP, and local women's resource organizations during construction and respond to any issues raised. The Community Table sessions are anticipated to continue during construction as a way to garner feedback on any emerging issues and adaptive management needs during construction. This includes community impact issues related to the lodge operations or worker conduct.

As noted in Section 4.2.1, the EGP Project Worker Code of Conduct has been established and sets out the standard of conduct expected of everyone engaged in work activity related to the construction. It notes that FortisBC expects all EGP Project workers to conduct themselves in an appropriate manner at all times, including after work hours, and including when travelling to or from the EGP Project workforce lodge site. EGP Project workers must comply with all applicable law. Worker use and enjoyment of the environment when off-duty must be in full compliance with all applicable laws and regulations.

As noted in the EAC Community Services and Infrastructure Management Plan (CSIMP), FortisBC will monitor and report on key Project-specific indicators during construction including feedback themes related to community services and infrastructure and worker conduct in the lodge and community. Key feedback themes and adaptive management strategies will be reported by FortisBC.

FortisBC will continue to explore community investment opportunities that will leave a legacy and support community needs in Squamish.


In addition, Squamish Nation (Skwxwú7mesh Úxwumixw) intends to conduct monitoring of Project interactions with the Skwxwú7mesh Úxwumixw community to evaluate the effectiveness of mitigation measures.

Quarterly CSIMP monitoring reports will be shared with key stakeholders and regulatory authorities.

6.3.2 Drug and Alcohol Policy

There will be strict alcohol and drug management in the lodge to support worker wellbeing and community safety. It is recognized that alcohol use in lodges can have implications for neighbouring communities and that there are pros and cons associated with both “dry” and “wet” lodge approaches. EGP Project will employ a controlled lounge approach within its lodge, which supports a safe lodge environment for residents, limits workers from seeking alcohol in communities, while maintaining consumption limitations that support worker wellness and healthy lifestyles. Related to drug and alcohol use in the lodge, the following approaches will be adhered to:

- Unless explicitly allowed in marked, designated, appropriately licensed areas, alcohol is prohibited in all areas of the lodge facilities, including private rooms, dorm hallways, recreation units, dining hall units, command centers, offices, and anywhere else within the lodge site or lease including consumption in vehicles.
- Cannabis possession and use in lodge is prohibited.

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- The lodge will seek an alcohol service license, and alcohol service is to be administered through a managed approach whereby workers over the age of 19 will be allowed to purchase a limited number of beverages each day through a secure tracking system.

Overall, the lodge provides increased services directly to workers, increases the supports related to the health and wellbeing needs of workers, and increases the off-duty management oversight of workers. As a result, the lodge, in light of the various cross-function management strategies that will be applied, is anticipated to reduce the potential for adverse community interactions in the Squamish area, compared to temporary workers residing in local accommodations within the Squamish community.

6.4 Waste Management


The lodge will have a site-specific waste management plan (see Appendix I) which outlines the anticipated waste streams associated with lodge operation. It also outlines management and protection measures for reduction, handling, storage and disposal of wastes generated onsite during camp operations. Waste streams within the lodge operation will include solid waste, sewage, recyclables, and organic waste.

Domestic solid waste generated by occupants and lodge staff will include general refuse, food waste, paper, and cardboard. It is anticipated that solid waste management services at the lodge will be handled by a certified and accredited subcontractor who will provide full-service disposal and recycling services in the immediate locality and several surrounding communities. The subcontractor will collect and transport waste to authorized commercial disposal facilities in BC. Paper and cardboard will be collected and stored separately and transported to a recycling facility. The refundable beverage containers will be donated to local charities for fundraising. Weatherproof and wildlife resistant containers will be provided for waste disposal. Waste and garbage will be collected and placed in designated storage areas, with the entire lodge being securely fenced.

The lodge waste management procedures will comply with all relevant guidelines and requirements from the District of Squamish where applicable (e.g., waste room design guidelines, solid waste wildlife-proof enclosure guidelines) and health authorities.

Sewage will be handled, stored, and disposed of in an environmentally acceptable and approved manner per the BC Environmental Protection Act. It is anticipated that all sanitary sewage will be collected in above ground sewage holding tanks and hauled regularly by sewage tanker trucks provided by an authorized carrier to an authorized receiving facility. Proper coordination and arrangements will be conducted with the receiving facility to ensure there is sufficient capacity to accept the anticipated waste. The lodge operator will establish a prior service agreement between the sewage hauler and the receiving facility that specifies the expected sewage volumes and frequency of deliveries, to ensure that the receiving facility will have sufficient capacity to accept all sewage generated from the lodge.

Waste production due to operations of the Lodge is anticipated to have no adverse effect on the local and regional jurisdictions' waste management infrastructure. It is anticipated that solid waste and sewage will be hauled to various facilities in various locations in BC based on established agreements of the

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commercial waste management contractor. The commercial waste management provider will maintain communication with the wider regional waste facilities/landfills to determine capacity to accept lodge-related waste. With the availability of multiple landfills/waste facilities over a large area, no single facility will be overwhelmed with an increase in waste.

See Appendix H for Draft Site-Specific Waste Management Plan

6.5 Emergency Management and Response

Both the Lodge Construction and Operations will have a Site-Specific Emergency Response Plan (SSERP) intended to minimize the consequences of natural, technological, and human events that could have a detrimental impact on health and safety of individuals; environmental conditions; and property, facilities, and infrastructure. The SSERPs outline procedures and resources to respond to emergency incidents in an organized fashion, and they incorporate principles of prevention, preparedness, and response.

During lodge construction, the SSERP will consider risks and emergencies, and risk mitigation and response protocols, related to spill prevention, spill response, personal injury event, severe weather or natural event, working at heights, flooding, wildlife encounters, bomb/terrorist threats, motor vehicle accidents, business disruption, structural failure, and contact with non-pipeline utilities.


During lodge operations, the SSERP will risks and emergencies, and risk mitigation and response protocols, related to: fire or explosion, blood borne pathogens, fatality or serious injury, hazardous material spill/release, natural disasters and severe weather, violent act, bomb/terrorist threats, motor vehicle accident, animal or wildlife threats (e.g., bears), and business disruption. It also includes procedures related to pandemic response and prevention.

The SSERPs outline emergency response equipment (e.g., fire extinguishers, alarms, spill response kits, smoke and heat alarms, medical equipment), security and evacuation guidelines, incident classifications, roles and responsibilities, required notifications, and action plan steps for emergency event scenarios.

During lodge operations, the ATCO Lodge Manager or their designated Assistant Manager will act as Emergency Response Command (ERC). The ERC responds to all site emergencies and is responsible for the following:

- establishing an Emergency Response Team (ERT) consisting of the on-duty management and workers, as required
- ensuring ERT members have received training to effectively execute the ERP.
- ensuring that the lines of communication are established with ATCO corporate office, internal departments, and other business units to ensure information is readily available, as required.


Training in the Emergency Response Plan, conducting safety and fire inspections, fire extinguisher use, emergency first aid with CPR and Blood borne Pathogens must be completed prior to personnel assuming the role with the Emergency Response Team. Records of training shall be retained in individual training files established for all personnel. All personnel shall be trained in their roles and responsibilities

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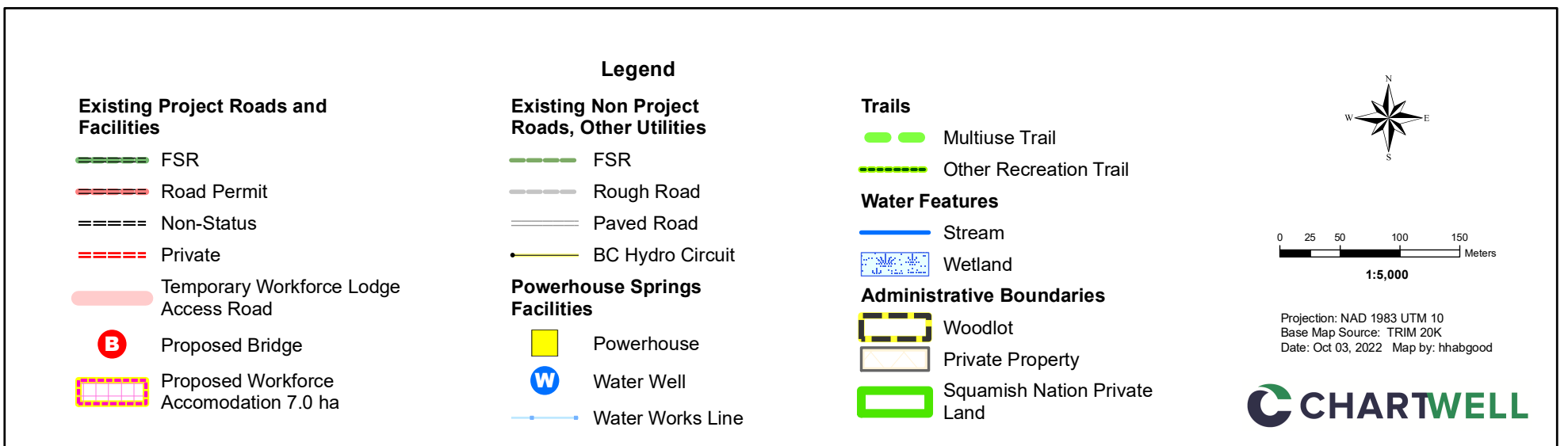
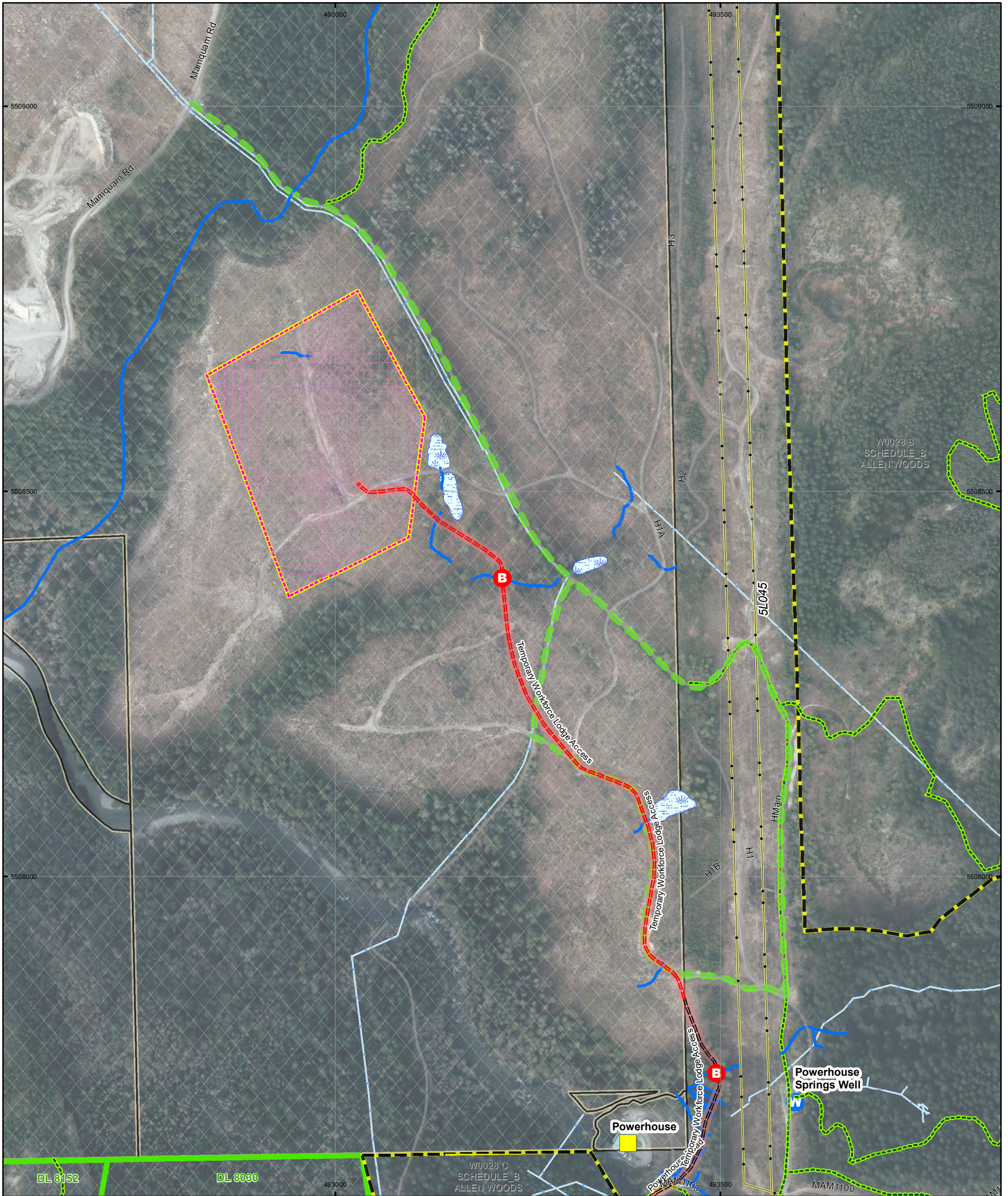
under the emergency response procedures on the first day of their employment and will participate in emergency tabletop exercises annually. General evacuation plans are to be initially tested within 30 days of lodge operation, to identify opportunities for improvements. After the initial drill, full-scale testing is to occur at least once per year.


SSERPs will present contextual and contact information for local, provincial, and federal emergency authorities relevant to the Squamish area. Should there be an emergency event at the lodge, local authorities (fire, police, ambulance) may be called and required to interact with the lodge management and personnel.

ATCO and FortisBC will engage with appropriate local, provincial and/or federal authorities regarding site-specific emergency response procedures and ensure required site-specific planning information is shared with authorities.

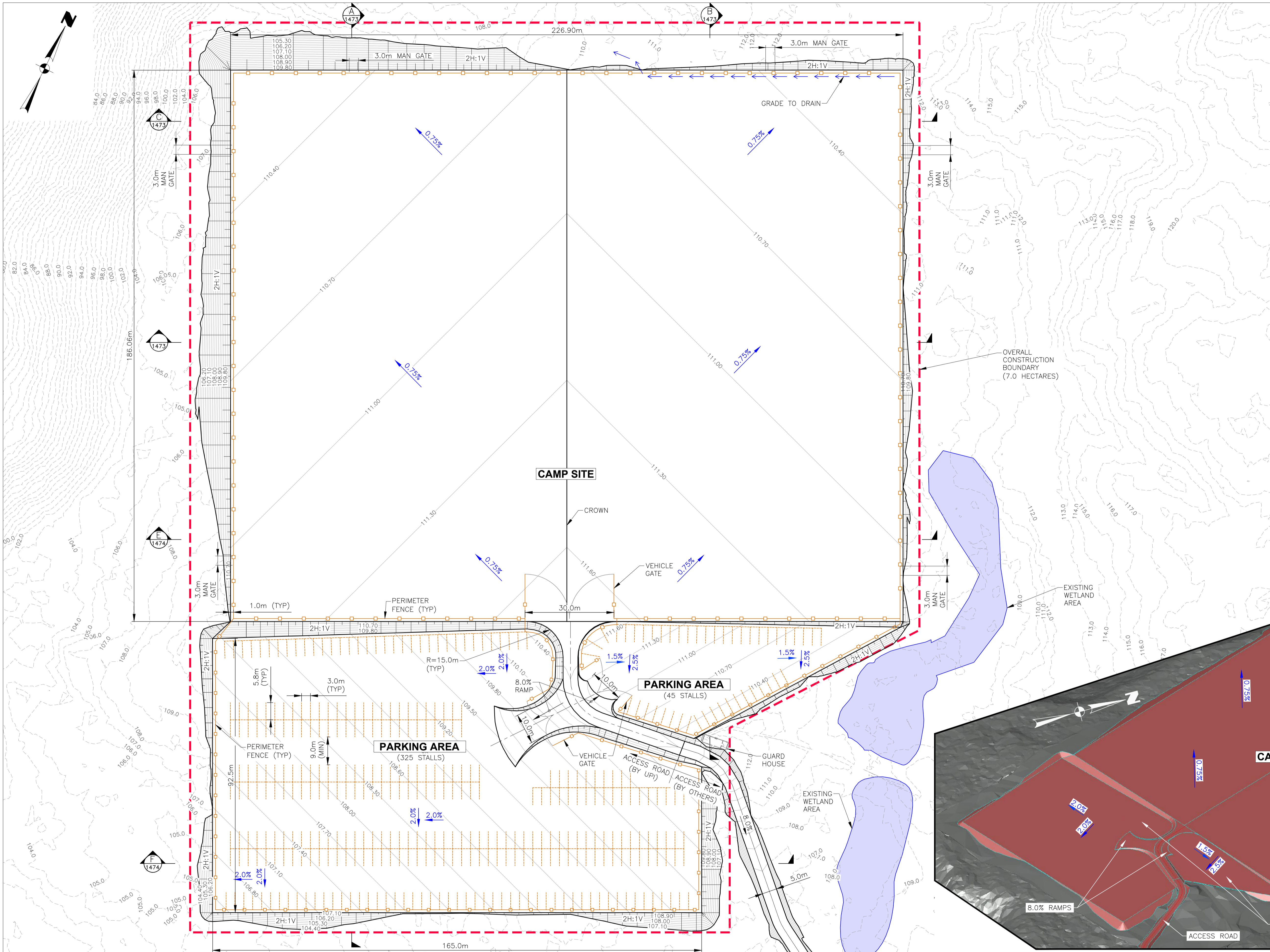
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APPENDIX A – SITE MAP



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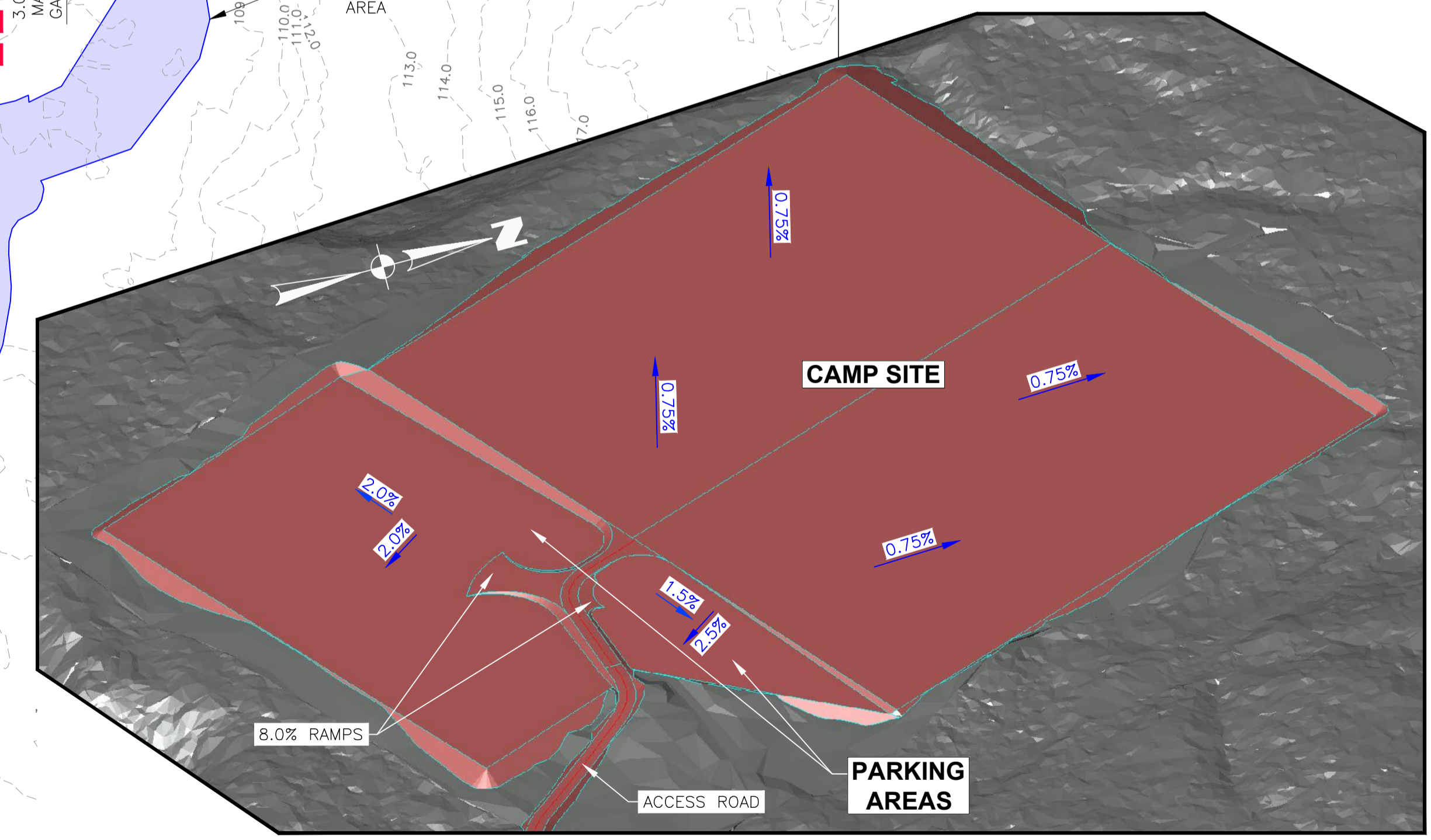
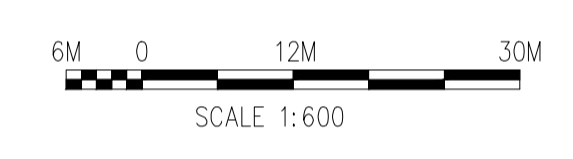
APPENDIX B – SITE CIVIL DRAWINGS



- NOTES:**
- THE GRID COORDINATES ARE UTM ZONE 10, NAD83 (CSRS) AND ARE DERIVED FROM THE LOWER MAINLAND ACTIVE CONTROL NETWORK.
 - ELEVATIONS ARE IN METRES. ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM GPS ELLIPSOIDAL ELEVATIONS AND THE HT2.0 GEOD MODEL. ELEVATIONS ARE REFERRED TO GEODETIC DATUM CVD28GVRD.
 - THIS PLAN SHOWS GRID MEASURED DISTANCES. TO COMPUTE GROUND LEVEL DISTANCES, DIVIDE GRID DISTANCES BY A COMBINED FACTOR OF 0.99949985.
 - CONTOURS SHOWN ARE A COMBINED DATA SOURCE OF POINT SURVEY AND LIDAR DATA. DATE OF POINT SURVEY: AUGUST 30, 2021 - SEPTEMBER 17, 2021, EXTRACTED FROM DOCUMENT: 03873-00-V-05-PB_CAMPLAYOUT.
 - FENCE AND GATES AS SHOWN ARE OPTIONAL PENDING FORTIS APPROVAL.
 - MAIN CAMP SITE AREA, TO HOUSE DORM BUILDING IS GRAVELED AREA AND DOES NOT CONTAIN ORGANIC MATERIAL. TOPSOIL REMOVAL IS NOT REQUIRED IN THIS AREA.
 - SOUTH PARKING AREA IS ASSUMED TO BE COVERED WITH SOIL CONTAINING VEGETATION AND ORGANIC MATERIAL. ALL VEGETATION AND TOPSOIL SHALL IN THIS AREA SHALL BE STRIPPED AND STOCK-PILED AS DIRECTED BY THE OWNER'S ENGINEER. ESTIMATED DEPTH OF TOPSOIL IS APPROXIMATELY 100 MM.
 - ALL AREAS ARE TO BE LEVELLED AS PER ELEVATIONS SHOWN ON DRAWINGS. FILL IN AREAS TO RECEIVE FILL, SHALL BE PLACED IN LIFTS NOT EXCEEDING THICKNESS OF 300 MM. IN LOOSE FORM AND COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD) WITH OPTIMUM WATER CONTENTS.
 - AFTER LEVELING THE SITE AND COMPLETING THE EARTH MOVEMENT, THE FULL SITE, INCLUDING MAIN CAMP AND PARKING AREA, SHALL BE SCARIFIED TO A DEPTH OF 300 MM. AND RE-COMPACTED TO 95% OF SPMDD AND PROFILLED TO ENSURE THAT THERE ARE NO SOFT SPOTS OR NON-LEVELLED AREAS.
 - ALL EARTHWORK SHALL CONFORM TO OCCUPATIONAL HEALTH AND SAFETY REGULATIONS OF BRITISH COLUMBIA.
 - ALL COORDINATES AND DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.

EARTHWORKS MTO – CAMP SITE AND PARKING AREA COMBINED:

STRIPPING/TOP SOIL REMOVAL (ASSUMED 100mm DEPTH)	6,397 m ³ (AREA = 63,970 m ²)
CUT VOLUME	55,810 m ³
FILL VOLUME	53,940 m ³
NET VOLUME	1,870 m ³ (CUT)



Universal Pegasus INTERNATIONAL

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PERMIT NUMBER: 1001209
THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF THE PROVINCE OF BRITISH COLUMBIA

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UPI DWG. No.: 24576-515-PLN-32779

DWG. NO.	TITLE	UPI	NO.	DATE	REVISION	DRN	CHK	ENG	APPR	DATE
62034-C-100-1474	CAMP SITE – GRADING SECTIONS	UPI	OD	2022-10-26	ISSUED FOR BID	MT	RGR	MM	RS	
62034-C-100-1474	CAMP SITE – GRADING SECTIONS	UPI	OC	2022-10-18	ISSUED FOR BID	MT	RGR	MM	RS	
62034-C-100-1473	CAMP SITE – GRADING SECTIONS	UPI	OB	2022-10-06	ISSUED FOR BID	MT	RGR	MM	RS	
		UPI	OA	2022-03-02	ISSUED FOR BID	MT	RGR	AS	RS	
	REFERENCE DRAWING	BY	NO.	DATE	REVISION	DRN	CHK	ENG	APPR	DATE: 2022-03-02

DATUM: NAD 83 UTM 10N
SCALE: AS SHOWN

DRAWN BY: M. TODD
CHECKED BY: R. REYES
APPROVED BY: R. SOLTER
SHEET SIZE: A1

FORTIS BC™

ENGINEER SEAL

EGP NORTH 610 TP PIPELINE

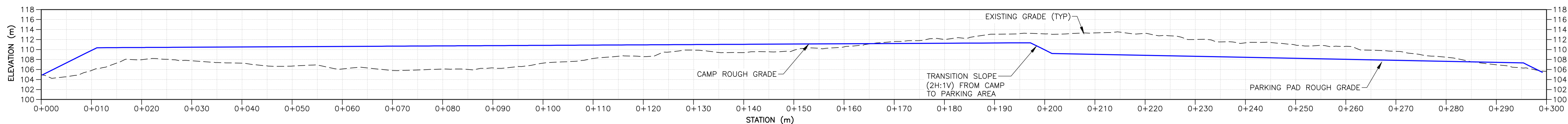
CAMP SITE – GRADING PLAN
EAGLE MOUNTAIN – WOODFIBRE
GAS PIPELINE PROJECT

DRAWING NUMBER 62034-C-100-1472-ROD

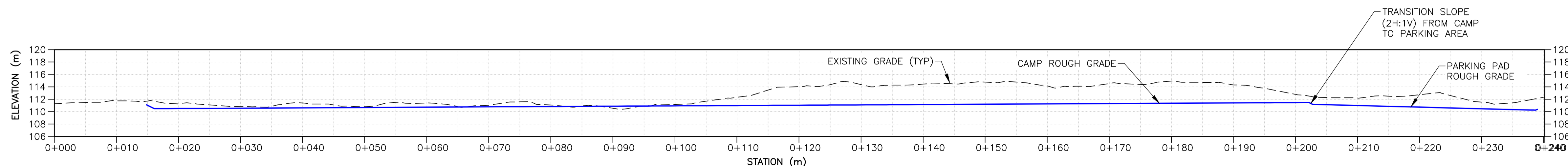
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NOTES:

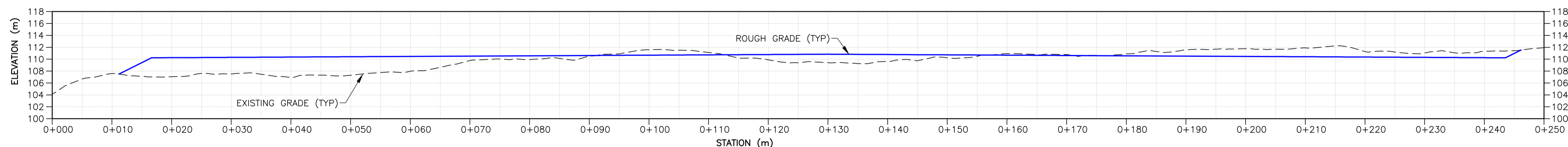
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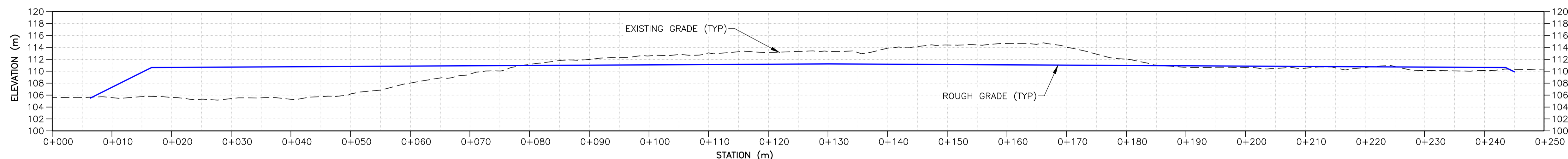
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1472 SCALE HOR. 1:400
VER. 1:400



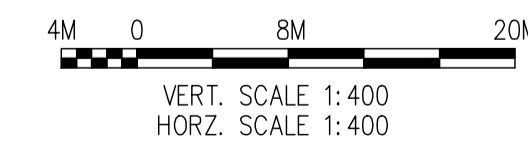
B SECTION
1472 SCALE HOR. 1:400
VER. 1:400



C SECTION
1472 SCALE HOR. 1:400
VER. 1:400



D SECTION
1472 SCALE HOR. 1:400
VER. 1:400



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UPI DWG. No.: 24576-515-PLN-32780

DWG. NO.	TITLE	UPI	NO.	DATE	REVISION	DRN	CHK	ENG	APPR	DATE
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		UPI	OC	2022-10-18	ISSUED FOR BID	MT	RGR	MM	RS	CHECKED BY: R. REYES
		UPI	OB	2022-10-06	ISSUED FOR BID	MT	RGR	MM	RS	APPROVED BY: R. SOLTER
		UPI	OA	2022-03-02	ISSUED FOR BID	MT	RGR	AS	RS	SHEET SIZE: A1
	REFERENCE DRAWING		BY	NO.	DATE					DATE: 2022-03-02



ENGINEER SEAL

EGP NORTH 610 TP PIPELINE

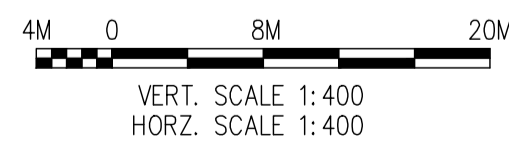
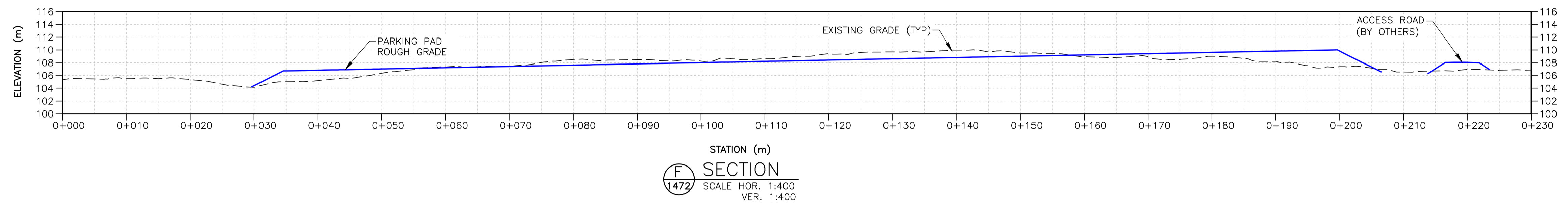
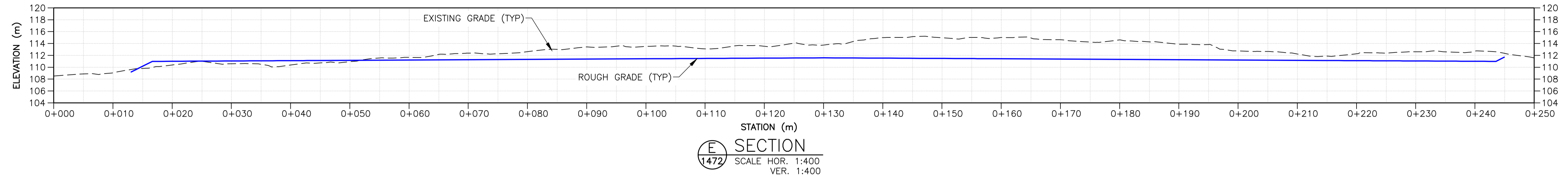
CAMP SITE - GRADING SECTIONS
EAGLE MOUNTAIN - WOODFIBRE
GAS PIPELINE PROJECT

DRAWING NUMBER 62034-C-100-1473-ROD

\\CAL-FST\CAN_Projcts\24576\0_500_ENG_DSN\515_OVL_STRC_DSN\PLN-Plans\CAMP SITE_LAYOUT_MTDWG

NOTES:

1. FOR GENERAL NOTES SEE DWG. 62034-C-100-1472.



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UPI DWG. No.: 24576-515-PLN-32781

BY	NO.	DATE	REVISION	DRN	CHK	ENG	APPR	DATE: 2022-03-02
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UPI	OC	2022-10-18	ISSUED FOR BID	MT	RGR	MM	RS	CHECKED BY: R. REYES
UPI	OB	2022-10-06	ISSUED FOR BID	MT	RGR	MM	RS	APPROVED BY: R. SOLTER
UPI	OA	2022-03-02	ISSUED FOR BID	MT	RGR	AS	RS	SHEET SIZE: A1
			REFERENCE DRAWING					

DATUM: NAD 83 UTM 10N
SCALE: AS SHOWN




ENGINEER SEAL

EGP NORTH 610 TP PIPELINE

CAMP SITE – GRADING SECTIONS
EAGLE MOUNTAIN – WOODFIBRE
GAS PIPELINE PROJECT

DRAWING NUMBER 62034-C-100-1474-ROD

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	EGP LODGE USE, MANAGEMENT AND ACCESS REPORT		Eagle Mountain – Woodfibre Gas Pipeline Project
	Revision: 0	Date: 2022-12-09	FEI Doc. Number M0012-REG-REP-0001

APPENDIX C – LODGE LAYOUT MAP AND SITE RENDERINGS

EAGLE MOUNTAIN-WOODFIBRE GAS PIPELINE PROJECT EGP WORKFORCE LODGE

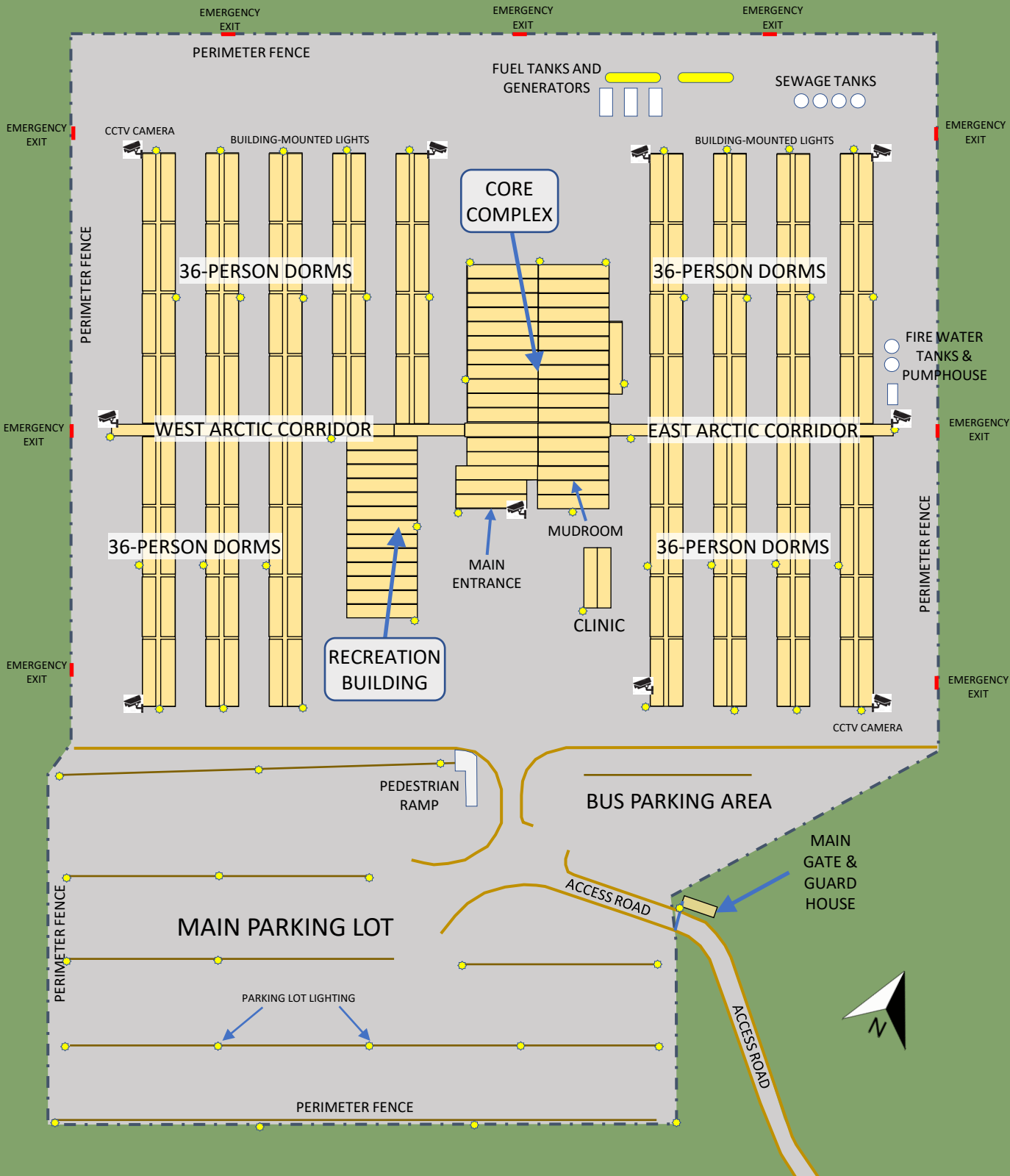
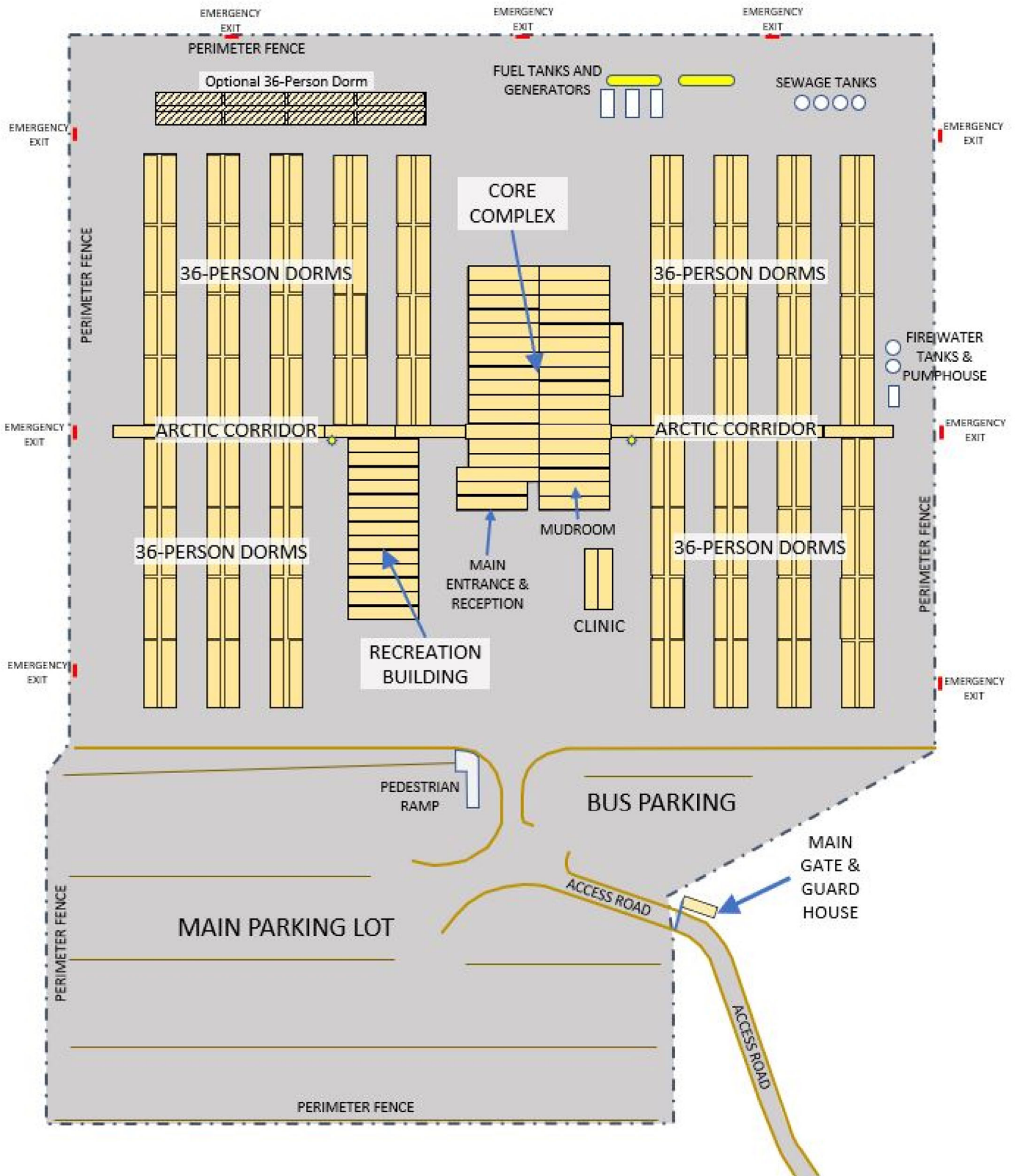
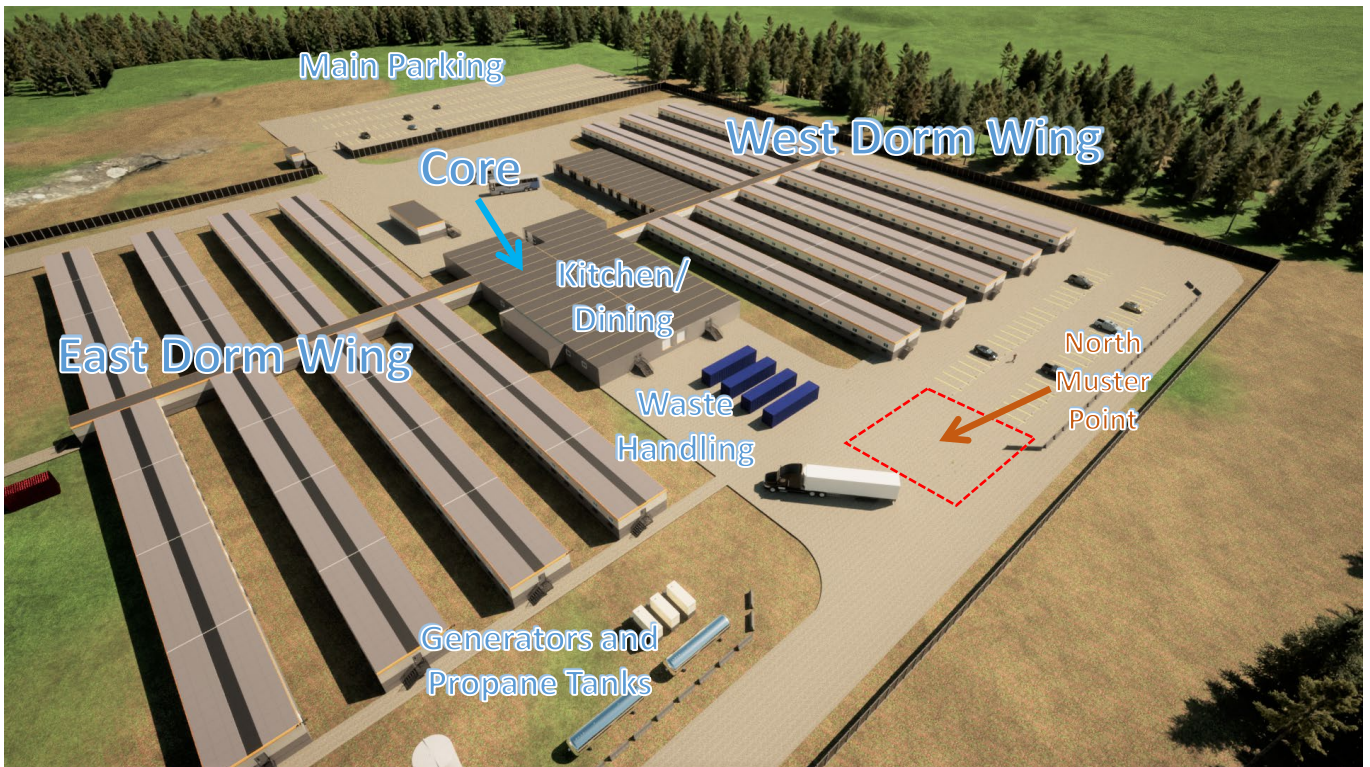
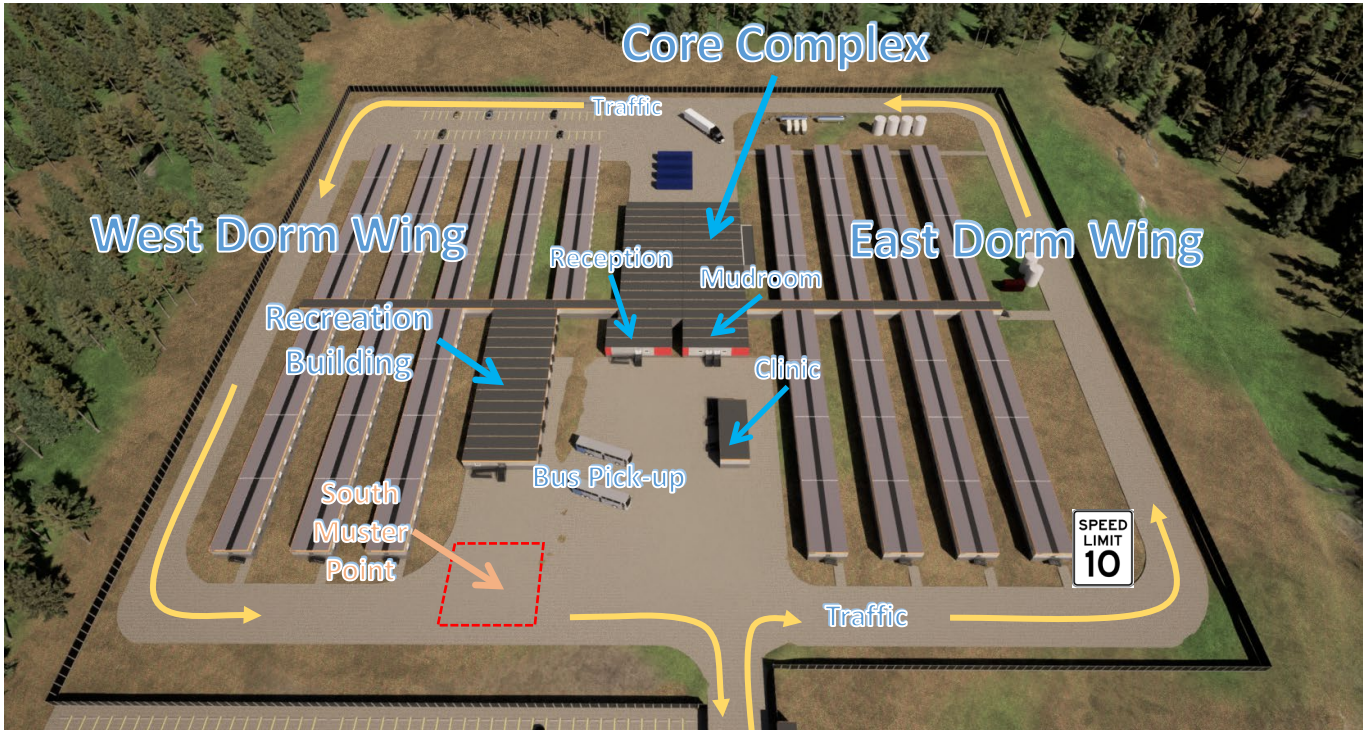


Illustration with Optional 36-Person Dorm



EAGLE MOUNTAIN-WOODFIBRE GAS PIPELINE PROJECT EGP WORKFORCE LODGE



















Proposed
New Road

Wellhead

Powerhouse Gate

Security Gate

Carpenter's Son Bridge

Proposed Lodge Site



Carpenter's Son Bridge

Proposed Lodge Site





Proposed
New Road

Powerhouse Gate

Security Gate

Wellhead



Powerhouse Springs
Road

Mamquam FSR