

# SKYE HALIFAX

## CONSTRUCTION MANAGEMENT PLAN

### Site Demolition & Excavation

October 2022

Prepared by: WSP Canada Inc.

1 Spectacle Lake Dr.  
Dartmouth, NS, B3B 1X7

Peter Field, P.Eng.

T: (902) 536-0956

[www.wsp.com](http://www.wsp.com)



## SECTION 1 – INTRODUCTION

### SECTION 1.1 – PROJECT DESCRIPTION AND OBJECTIVES

United Gulf is proposing to demolish a five-storey office building located at 1568 Hollis Street in downtown Halifax and the excavation of the existing building lot and the adjacent lot along Hollis Street towards Sackville Street. This project in downtown Halifax, encompasses a portion of the block between Hollis Street, Granville Street, and Sackville Street.

Adjacent to the property proposed for the demolition and excavation, is a parking garage on the south side of the lot bordering Granville, Street, Hollis Street and Salter Street and an empty lot on the North and East sides.

WSP, together with United Gulf, has prepared this Construction Management Plan (CMP) in an effort to reduce negative impacts to the community as a result of construction activities. This CMP is intended to be an evolving document to help guide the project team to mitigate impacts to the adjacent community before they arise and to address unforeseen issues. CMP drawings can be found in Appendices A and were prepared by a temporary workplace signer (TWS).

Should any changes be required to any aspect of this CMP, an email and hard-copy of the proposed changes shall be sent to HRM for review a minimum of 10 days prior to their proposed implementation. Changes will only be implemented following approval from HRM.

### SECTION 1.2 – PROJECT CONTACT INFORMATION

The project team for the proposed development consists of:

#### **OWNER:**

United Gulf Development  
PO Box 48099, PRO Mill Cove, Bedford, NS, B4A 3Z2  
**24 Hour Emergency Contact:** United Gulf, Alireza Saboori Fard (902) 493-3030

#### **SITE CONTRACTOR:**

MacAdam Construction Inc.  
230 Lucasville Road, Middle Sackville, NS, B4B 1S1  
Dan Wile (902) 943-8300

#### **TRAFFIC CONTROL SERVICES:**

Eastcoast Traffic Control  
180 Saint-Andre Road, Saint Andre, NB, E3Y 3P9  
(506) 479-1999

#### **RODENT CONTROL SERVICES:**

Terminix Canada  
Steve MacLean, Terminix Canada

Business Development (902)219-0020

## SECTION 2 – CONSTRUCTION SCHEDULE AND LOGISTICS

### SECTION 2.1 – SCHEDULE

This project which includes demolition and site excavation is planned to be completed before August 2024.

- Demolition (August 2023 – December 2023) 5 Months
- Excavation (January 2024 – July 2025) 18 Months

Project A Schedule

Project Phase	2023									2024												2025							
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	May	Jun	Jul	Aug		
Demolition																													
Excavation																													

From start to completion, the project will take approximately 23 months. It is intended that excavation will immediately follow demolition, however in the event excavation is significantly delayed all actions completed as part of this CMP will be postponed until the next phase of the project starts. This includes reopening all side walks adjacent to the site.

### SECTION 2.2 – WORK WITHIN THE PUBLIC RIGHT-OF-WAY

The Demolition and Excavation Phases of the project will require sidewalk encroachments within the Halifax Regional Municipality (HRM) right-of-way (ROW) and will remain in place for both phases. Extents of sidewalk closures include Hollis Street for the duration of the Demolition Phase which will be closed from the south corner of the parking lot to the metro park. According to the Contractor’s demolition plan reviewed and stamped by the professional Engineer, there will be no operation above the public realm During the Excavation Phase, Hollis Street sidewalk from the intersection to the metro park will be closed and the eastern sidewalk on Granville Street will also be closed. A 1.5 m walkway on Sackville Street will remain unobstructed for pedestrians to use. Encroachment plans Pedestrian Management Plans (PMPs) are provided in Appendices A and B.

Project Management Plan Renderings (PMPRs) will be in place in advance of the sidewalk closures and prior to installations within the ROW being put in place.

### SECTION 2.3 – HOURS

Demolition and Excavation will be completed during daytime hours to avoid interruptions to local residents in the evenings and night. Demolition and Excavation activities will adhere to all restrictions outlined in the HRM Noise Bylaw (N-200).

- Monday to Friday: 7:00 a.m. – 5:00 p.m.

### SECTION 2.4 – GENERAL NOTES

Although most signs will be mounted on existing permanent poles, some signs may require to be mounted using temporary concrete sign bases complete with embedded steel poles. These sign bases will weight approximately 90 kg (200 lb.) to prevent them from being stolen and will be square to prevent them from rolling if toppled. They will be positioned away from, or along the edges of, pedestrian routes to prevent the impedance of pedestrians.



## SECTION 3 – RELEVANT REGULATIONS & GUIDELINES

### SECTION 3.1 – OCCUPATIONAL HEALTH & SAFETY REGULATIONS

This CMP shall be utilized in agreement with all applicable Provincial and Federal Occupational Health and Safety Regulations. At a minimum, construction activities must at all times meet the standards of:

- a) National Building Code of Canada, as adopted and modified under the Building Code Act and the Nova Scotia Building Code Regulations made under that Act;
- b) Nova Scotia Occupational Health and Safety Act, and the Nova Scotia Occupational Safety General Regulations made under that Act;
- c) the Transportation Association of Canada (TAC)'s Manual of Uniform Traffic Control Devices for Canada (MUTCDC); and
- d) the Nova Scotia Temporary Workplace Traffic Control Manual (NSTCM).

### SECTION 3.2 – MUNICIPAL REGULATIONS & GUIDELINES

In addition to the Provincial and Federal standards referenced in Section 3.1, this CMP shall be utilized in agreement with and meet, at a minimum, the standards of all relevant municipal by-laws including, but not limited to, the following:

- a) S-300 Streets;
- b) E-200 Encroachments;
- c) B-201 Building;
- d) N-200 Noise;
- e) T-600 Trees;
- f) S-900 Controlled Access Streets;
- g) T-400 Truck Routes;
- h) W-101 Discharge into Public Sewers;
- i) G-200 Grade Alteration;
- j) B-600 Blasting; and
- k) HRM TCM Supplement.

## SECTION 4 – VEHICLE AND PEDESTRIAN MANAGEMENT

### SECTION 4.1 – VEHICULAR TRAFFIC CONTROL

This project involves the demolition and excavation of the lot located at 1568 Hollis Street. During the Demolition and Excavation phases, the adjacent sidewalk on Hollis Street will be closed for the duration of these phases of the project with the intent to divert pedestrians to the sidewalk on the opposite side of Hollis Street. Granville Street sidewalk will remain open during the Demolition Phase but will be closed during the Excavation Phase of the project.

#### SECTION 4.1.1 – VEHICULAR HAZARD ASSESSMENT

During the course of demolition and excavation, the contractor will be required to bring trucks onto Hollis Street to manage the removal of the excavated material from the site. There will be signs mounted on the side of the barrier fence indicating the entrance and exit for vehicles entering and leaving the site.

There is currently a controlled bike lane along the right-hand side of Hollis Street heading south which when barriers are placed to control pedestrians along the portion of Hollis Street in front of 1568 Hollis Street, they will be placed

on the edge of the sidewalk and will not interfere with the bike lane. Signage will be provided for the bike lane indicating “**Caution Trucks Turning**”.

Jersey barriers with fencing above will be provided to block the construction site from traffic on Hollis Street with the exception of in front of 1568 Hollis Street where the fire hydrant is located. There will be a gap in the barriers and the fencing will be positioned inside of the fire hydrant to provide emergency services access to the hydrant from Hollis Street

#### **SECTION 4.1.2 – NOTIFICATION OF TRAFFIC CLOSURES**

There are no intended plans for street closures that could impact traffic flow.

#### **SECTION 4.1.3 – EMERGENCY VEHICLE ACCESS**

Emergency vehicle access to the project site will be maintained at all times throughout the life of the project. The rigid fence constructed around the project site will be assembled such that access to the site will be available through each of two gates one on Hollis Street and one on Granville Street. These gates will remain unobstructed to emergency vehicles and personnel throughout demolition and excavation.

In cases of emergencies, on-site workers will exit the project site through gates along Hollis Street and Granville Street. These gates will always remain unlocked when workers are on site to allow emergency response units to access the site.

Fire services will have access to the fire hydrant located in front of 1568 Hollis Street from the street side as it will be located outside the perimeter fencing around the site.

#### **SECTION 4.1.4 – PEDESTRIAN MANAGEMENT**

##### **SECTION 4.1.4.1 – DEMOLITION PHASE TRAFFIC CONTROL**

During the Demolition Phase, traffic will not be affected by construction activities. Encroachments for the project will be limited to the sidewalk directly adjacent to the project site along Hollis Street. The signage and barriers used to prevent pedestrians access to the closed section of sidewalk will be equipped with kick plates so a person with a white cane can detect the barrier. The barriers will be positioned just south of the corner of Hollis and Sackville Street as not to impact the movement of pedestrians across Hollis Street at the Sackville, Hollis Street intersection. All signage indicating a sidewalk closure will be firmly mounted to either an existing post or on a freestanding support. These supports and their signs will be checked weekly by the contractor to ensure they remain intact during these phases of the project.

An inward swinging gate along Hollis Street and a second gate on Granville Street will provide work vehicle and personnel access to the site. These gates will be identified using signage mounted on the gate.

##### **SECTION 4.1.4.2 – EXCAVATION PHASE TRAFFIC CONTROL**

During the Excavation Phase, traffic will not be affected by construction activities. Encroachments for the project will be limited to the sidewalks directly adjacent to the project site along Hollis Street, Sackville Street and Granville Street. The signage and barriers used to prevent pedestrians access to the closed section of sidewalk will be equipped with kick plates so a person with a white cane can detect the barrier. The barriers will be positioned just south of the corner of Granville and Sackville Street as not to impact the movement of pedestrians across Sackville Street at the Sackville, Granville Street intersection. These supports and their signs will be checked weekly by the contractor to ensure they remain intact during these phases of the project.

A sliding gate along Hollis Street and a second gate on Granville Street will provide work vehicle and personnel access to the site. These gates will be identified using signage mounted on the gate.

### **SECTION 4.1.5 – HAUL ROUTE PLAN**

The site contractor will provide a haul route plan as part of the demolition and exaction processes required prior to starting excavation of the site. The haul route will illustrate the routing of debris from the site to an approved receiving site based on material type. The Granville Gate is used only for the equipment and not for hauling trucks. Haul route plan can be reviewed in Appendix F.

#### **SECTION 4.1.5.1 – DELIVERY REQUIREMENTS**

Trucks are not permitted to reverse into or out of the site.

### **SECTION 4.1.6 – BLASTING**

#### **SECTION 4.1.6.1 – EXCAVATION PHASE BLASTING CONTROL**

Geo Technical Services Ltd will be contracted to carry out the blasting work at 1568 Hollis Street. The Blasting Excavation Plan is provided in Appendix C.

### **SECTION 4.1.7 – PARKING**

During the Demolition and Excavation Phases, on-street parking will not be affected.

#### **SECTION 4.1.7.1 – CONTRACTOR PARKING**

Contractor parking will be provided on the construction site.

### **SECTION 4.2 – PEDESTRIAN MANAGEMENT**

Pedestrian management will be of foremost consideration throughout the construction of this project. WSP has prepared Pedestrian Management Plans (PMPs) to assist pedestrians in navigating their way around this project site. These plans are provided in Appendix A and B.

Although most signs will be mounted on existing permanent poles, some signs may require to be mounted using temporary concrete sign bases complete with embedded steel poles. These sign bases will weight approximately 90 kg (200 lb.) to prevent them from being stolen and will be square to prevent them from rolling if toppled. They will be positioned away from, or along the edges, of pedestrian routes to prevent impedance of pedestrians. Some Pedestrian Management Plan Rendering signs will be mounted to existing fences on private property. Additional information related to these items is provided in Section 5.3.

#### **SECTION 4.2.1 – BUS STOP RELOCATION**

During the Demolition Phase, the access to the bus stop located on Hollis Street adjacent to the site will be maintained. The Excavation Phase will require the bus stop to be closed and will remain closed until the sidewalk is re-opened.

#### **SECTION 4.2.2 – PEDESTRIAN MANAGEMENT PLAN PREPARATION & MONITORING**

Separate Pedestrian Management Plans (PMPs) have been prepared as required for this project phase. The PMPs illustrate the proposed signage which will be installed to warn pedestrian traffic ahead of and throughout the construction zone. Pedestrian management features and methods as well as information related to the PMPs are provided in Section 5.3 and in Appendix A and B.

#### **SECTION 4.2.3 – NOTIFICATIONS OF PEDESTRIAN CLOSURES**

The contractor shall notify HRM and the public to proposed pedestrian closures as outline in Section 7.1.

#### **SECTION 4.2.4 – PEDESTRIAN MANAGEMENT PLAN COMPLIANCE**

All PMPs will be implemented and monitored by the contractor. Construction warning signage will be displayed throughout the approaches to, and adjacent to, the project site. The contractor will inspect pedestrian management elements at the start and end of the workday, or more frequently as required, and will maintain pedestrian management elements as required to ensure the PMPs are effectively and correctly implemented.

#### **SECTION 4.2.5 – CHANGES TO PEDESTRIAN MANAGEMENT PLANS**

Requests for modifications to PMPs will be sent to HRM for approval a minimum of 10 days prior to their proposed implementation.

Notification of pedestrian disruptions will be distributed to affected residents and businesses a minimum of 5 days in advance of disruptions. Modifications to PMPs for unforeseen events will be sent to the Municipality for approval.

#### **SECTION 4.2.6 – PEDESTRIAN MANAGEMENT PLANS**

Pedestrian Management Plans (PMPs) have been prepared by WSP certified temporary workplace signer (TWS), Courtney Pyne. Separate PMPs have been prepared as required for each project phase, including the Demolition Phase and the Excavation Phase. The Pedestrian Management Plans illustrate the pedestrian routes throughout construction and signs which will be erected to warn and direct pedestrians in a safe and convenient manner.

##### **SECTION 4.2.6.1 – DEMOLITION PHASE PEDESTRIAN MANAGEMENT**

The Demolition Phase involves demolishing the existing multi-level building on site. Throughout this work potential hazards related to falling debris and construction equipment will be present and, as such, it will be unsafe for pedestrians to be within 3 m of the property. Therefore, it is proposed that the sidewalk on Hollis Street adjacent to the project site be partially closed starting at the south corner of the parking lot to the metro park, allowing the bus stop to remain open during the Demolition Phase. Alternate pedestrian routes will be established using pedestrian signage, directing pedestrians around the building on Hollis Street.

A 1.8 m (minimum) high rigid fence will separate the project site from public property. The fence will comprise F-type jersey barrier with solid plywood mounted on top of the barrier. An inward swinging gate along Hollis Street will provide work vehicle and personnel access to the site. This gate will be identified using signage mounted on the gate.

##### **SECTION 4.2.6.2 – EXCAVATION PHASE PEDESTRIAN MANAGEMENT**

The Excavation Phase involves excavating the site for the addition of sub level parking. Throughout this work potential hazards related to blasting will be present and, as such, it will be unsafe for pedestrians to be within 3 m of the property. Therefore, it is proposed that all existing sidewalks adjacent to the project site be shut down with the exception of Sackville Street and that alternate pedestrian routes be established using pedestrian signage, directing pedestrians across Hollis Street to the opposite side of the street (East side) from the construction site. The Granville Street sidewalk will also be closed and will redirect pedestrians to the opposite side of the street (West side) from the construction site. Sackville Street will have F-type jersey barriers with plywood mounted on the top of the barrier providing a 1.5 meter walkway for pedestrians along the south side of Sackville Street adjacent to the site.

A 1.8 m (minimum) high rigid fence will separate the project site from public property. A sliding gate along Hollis Street will provide work vehicle and personnel access to the site. This gate will be identified using signage mounted on the gate.

During blasting, solid plywood hoarding will be mounted on the section of the rigid fence adjacent to blasting areas to protect pedestrians from potential blasting debris. This hoarding will be designed and certified by a Professional Engineer (P.Eng.).

During barrier installation, the pedestrian routes immediately adjacent to the project site will be closed to the public. Therefore, alternative pedestrian routes, similar to those for the Demolition Phase, will be established using pedestrian

signage, directing pedestrians to the opposite side (East side) of Hollis Street as well as the opposite side (West side) of Granville Street.

### **SECTION 4.2.3 – PRE-PROJECT HAZARD ASSESSMENT**

See Appendix E for vehicular and pedestrian hazard assessment information which validates United Gulf's rationale for sidewalk closures.

### **SECTION 4.2.4 – VISUALLY IMPAIRED PERSONS**

Construction areas can be particularly difficult to navigate for visually impaired persons. WSP has reviewed elements identified by the Canadian National Institute for the Blind (CNIB) to assist the visually impaired and has incorporated these elements into the design of the CMP.

Sawhorse barricades painted "safety orange" will be located at all termination points along pedestrian routes to assist all pedestrians, especially visually impaired persons, in identifying the transition between pedestrian routes and traffic travel ways. These sawhorse barricades will be constructed complete with an orange-painted wooden 2" x 4" board complete with visual and braille text indicating "No Crossing" which will be fixed along the bottom of the sawhorse barricade for cane detection. Sawhorse barricades will be set up at existing street crossings to clearly identify that these crossings are out-of-service.

#### **SECTION 4.2.4.1 – FEEDBACK FROM WALK 'N ROLL HALIFAX**

Our PMP was submitted to both the CNIB and Walk 'N Roll Halifax for feedback on our proposed plan. The following feedback was provided by Bill Campbell from Walk 'N Roll Halifax and has been incorporated into the PMP.

- We interpret that the 'Sidewalk Closed Here' label with an arrow pointing to a blue or red toned broad line on the plans indicates the whole sidewalk segment (under the coloured broad line) will be temporarily closed.
- The positioning of the 'Sidewalk Closed Ahead' and 'Sidewalk Closed' signs appears to be good.
- As in other similar projects, please include a note, or similar, on the Construction Management Plans stating that barriers on public sidewalks or temporary walkways will have a 'kick plate', or similar, at grade so that a person using a white cane for navigation will detect the barrier with the cane.
- Please ensure signs posted on the ground or on utility or other poles meet the requirements of the HRM Traffic Control Supplement, Section 12.
- Please ensure that where a closed sidewalk abuts an intersection that there is sufficient surface area on the sidewalk for a person in a wheelchair to navigate the corner and have a rest position.
- We assume that the sidewalk ramps at the southeast corner of Sackville and Granville and the southwest corner of Sackville and Hollis will be fully accessible.
- We understand that many sidewalk barriers and signs are moved or removed from their intended location (as approved in the CMP plans). We'd recommend that you plan your barriers and signs so that they are difficult to move or remove.
- We're glad you are able to maintain the Sackville Street south side sidewalk open during demolition and excavation stages.
- In the case in which the site on the opposite side of Hollis Street (Canada Lands site) also begins excavation, we may want to revisit some of the sidewalk closure plans you have. There may be a need for a mid-block marked and RRFB controlled pedestrian crossing.

### **SECTION 4.2.5 – ACCESSIBILITY**

All pedestrian routes will be barrier-free, utilizing existing curb cuts and sidewalk ramps. It will be the contractor's responsibility to keep all pedestrian routes free and clear of obstructions at all times, including snow, construction debris, and public debris to ensure their continued functionality.



## SECTION 5 – CONSTRUCTION SITE PROTECTION AND HOARDING

### SECTION 5.1 – SITE PROTECTION AND HOARDING MATERIALS

#### SECTION 5.1.1 – FENCING

Fencing is described in Section 4.1.4. It will be the contractor's responsibility to regularly inspect the rigid fences to ensure their continued structural integrity. Any deficiencies in fencing must be addressed immediately to prevent pedestrians from entering the project site through holes or overturned fences. The fence structure will be sufficiently strong such that it cannot be moved, removed, or overturned without the use of tools.

During both the Demolition and Excavation Phases of the project, jersey blocks will be used at the end of the sidewalk indicating the sidewalk is closed as a safety measure to divert pedestrians to use the other side of Hollis St and Granville St.

#### SECTION 5.1.2 – TRANSLUCENT MESH

No mesh will be used as solid plywood hoarding will be installed. Refer to Section 5.1.3.

#### SECTION 5.1.3 – HOARDING

During demolition and the use of a hydraulic hammer or rock breaking equipment during excavation, precautions are to be taken including; solid plywood hoarding mounted on section(s) of the rigid fence adjacent to potential flying debris during demolition and excavation at the ground level to protect pedestrians and property damage. All hoardings will be installed as per HRM specifications and guidelines. Solid hoarding will be designed and certified by a Professional Engineer (P.Eng.). Hoarding will be provided as illustrated in the photo below.



#### SECTION 5.1.4 – COVERED WAYS

There is no intention to use covered ways during the demolition and excavation phases of this project.

#### SECTION 5.1.5 – SNOW REMOVAL

It will be the contractor's responsibility throughout all construction phases to keep all temporary sidewalks clean and free of snow and ice. The contractor will not dump snow or ice onto adjacent public property and will truck snow off site as required to prevent the unsafe build-up of snow piles.

The contractor will be responsible to remove snow and ice as required to ensure that emergency access is maintained to the project site.

#### SECTION 5.1.6 – SITE LINES

Rigid fences and signage will be installed as per the CMP drawings such that vehicular site lines are maintained around the corners of street intersections.

### **SECTION 5.1.7 – EMERGENCY ACCESS & EGRESS**

The site will be accessible through two gates, Gate #1 (one) being on Granville Street, Gate #2 (two) on Hollis Street, each gate will be visibly marked at the entry points and have locking mechanisms in place at each gate. All gates are to be remained closed during construction activities and have on-site personnel open/close gates. These gates are the only location(s) that will receive equipment/materials during construction and will always be locked after work hours. In cases of emergencies, on-site workers will exit the project site through the designated gate of choice. This gate will always remain unlocked when workers are on site so as not to restrict emergency response units from accessing the site. In addition, each gate will be designated “Entrance Gate” and “Exit Gate”. As described in section 4.1.3.

### **SECTION 5.1.8 – REINSTATEMENT OF PUBLIC PROPERTY**

The contractor will be responsible to repair and pay for any and all damages incurred due to temporary encroachments including, but not limited to:

1. Rigid fence and scaffolding holes reinstated with concrete to existing conditions or better;
2. Street lines repainted to existing conditions;
3. Damaged sidewalks, curbs, sodding, and other public elements reinstated to existing conditions or better;

## **SECTION 5.2 – SITE PROTECTION AESTHETICS**

Pedestrian Management Plan Renderings and wayfinding signage (see Section 5.3) will improve project site aesthetics and provide the public with information related to the project and nearby amenities. In addition, throughout all phases of the project, the contractor shall regularly inspect the project site and adjacent areas and keep these areas clean and free of debris, snow, and ice.

## **SECTION 5.3 – SIGNAGE**

### **SECTION 5.3.1 – PROJECT MANAGEMENT PLAN RENDERINGS**

Project Management Plan Renderings (PMPRs) will be mounted at the locations identified by the owner and to keep the public informed of general project details and project contact information.

These PMPRs will be printed on sign boards no less than 900 mm x 600 mm in dimension and will be placed at the project site a minimum of 10 days prior to the commencement of work.

### **SECTION 5.3.2 – PEDESTRIAN DETOUR WAYFINDING**

Signage established to assist pedestrian detours will be mounted at each intersection that is impacted by a side closure. These signs will be mounted to minimize vandals from removing or impacting the signs.

## **SECTION 7 – ON-SITE CONDITIONS**

### **SECTION 7.1 – SITE SAFETY AND SECURITY**

All contractors on site will be required to be registered members in good standing with the Nova Scotia Construction Safety Association. Contractors will be required to comply with all applicable safety codes and regulations. The contractor will be required to provide a mandatory site safety orientation for all trades and site visitors.

The contractor will be required to have certified first aid responders on site during all construction activities. First aid kits will be made available at the project site and site office and locations of first aid kits will be prominently posted and communicated to all on-site workers and visitors. In addition, fire extinguishers and burn kits will remain available

on site at all times. The contractor will be responsible to carry out regular inspection of first aid kits, fire extinguishers, and burn kits and to note any deficiencies and replenish kits as required for any missing or used items.

#### **SECTION 7.1.1 – ACCESS & EGRESS GATES**

Signs identifying the “Entrance Gate” and “Exit Gate” will be prominently posted as per the TCPs. These signs will be mounted directly onto the gates using steel cables.

#### **SECTION 7.1.2 – HAZARD WARNING SIGNAGE**

Hazard warning signs will be fastened to the “Entrance Gate” and “Exit Gate” warning personnel of potential hazards and personal protective equipment (PPE) required.

#### **SECTION 7.1.3 – GATE LOCKING & MONITORING**

Gates will be locked during non-work hours and will be closed at all times not in use. During holidays and weekends, the contractor will be responsible to check the project site gates daily to ensure they are secure.

#### **SECTION 7.1.4 – HOARDING SIGNAGE**

Hoarding will be marked with “No Trespassing – Construction Personnel Only” signs. All personnel on the construction site will be required to use all proper personal protective equipment (PPE) at all times. PPE requirements will be prominently posted and visitors will be required to sign in at the project site office before entering the site. A warning of potential fines will be included for those who violate PPE requirements.

#### **SECTION 7.1.5 – INSPECTION REPORTS**

The contractor will regularly inspect hoarding and address all safety-related and other deficiencies in a prompt and timely manner. Inspection reports on maintenance activities carried out will be kept on site at all times.

#### **SECTION 7.1.6 – DANGEROUS ACTIVITIES**

Public safety and the safety of on-site workers will be of critical importance throughout all construction phases and all works will be carried out in accordance with the Nova Scotia Occupational Health and Safety Act. For all dangerous activities, first aid kits will be readily available. See Appendix E for vehicular and pedestrian hazard assessment information.

##### **SECTION 7.1.6.1 – ON SITE SMOKING**

Smoking will not be permitted on the project site. In addition, under no circumstances will smoking or open flames be permitted within the vicinity of combustible or explosive materials, to a minimum standard as identified in the material’s product specifications. See Section 7.1.9 for information related to the designated smoking area.

##### **SECTION 7.1.6.2 – IGNITION SOURCE CONTROLS**

It will be the contractor’s responsibility to review potential ignition sources regularly and to proactively mitigate the potential for them to ignite. Potential ignition sources include faulty wiring, hot surfaces and motors, welding, grinding, and other sparks, convex lenses (magnifying glasses), and reactive chemicals. Material and equipment specifications and best practices will be followed during all construction activities to reduce the risk of ignition. In addition, potential ignition sources and work which may result in potential ignition will be kept away from heavy equipment and heavy equipment routes.

##### **SECTION 7.1.6.3 – STORAGE OF COMBUSTIBLE MATERIALS**

On-site materials will be protected as required from environmental conditions such as snow, rain, and wind to prevent materials from causing harm to on-site workers or the general public. Combustible materials, as well as explosive,

reactive, and corrosive materials, will be stored in accordance with their product specifications using storage sheds and containers within the loading area and on-site as required and will be kept away from heavy equipment and heavy equipment routes.

#### **SECTION 7.1.6.4 – WASTE MANAGEMENT PRACTICES**

Throughout construction the contractor will be required to maintain a clean and tidy work environment and work to proactively eliminate risks. The contractor will monitor the project site at the start and end of the work day, or more frequently as required, to ensure that waste is removed in a prompt and timely manner such that it does not pose a risk to on-site construction activities, on-site workers, or the general public.

#### **SECTION 7.1.7 – EMERGENCY CONTACT INFORMATION**

As outlined in Section 5.3, throughout all project phases, developer and contractor emergency contact information will be prominently posted on Pedestrian Management Plan Renderings and wayfinding signs.

#### **SECTION 7.1.8 – AFTER-HOURS LIGHTING**

No after-hours lighting is expected at this time.

#### **SECTION 7.1.9 – SMOKING AREA**

Smoking will not be permitted on the project site. A designated smoking area will be determined by the contractor in a location that does not impact pedestrians in the area of the job site. Signs will be displayed showing the location of the designated smoking area. The owner will obtain a written letter of permission if required for an area in the public through fare.

### **SECTION 7.3 - ENVIRONMENTAL CONTROLS**

#### **SECTION 7.3.1 – STORMWATER MANAGEMENT AND RUNOFF POLLUTION**

The contractor will be required to prevent sediment from entering all adjacent catch basins and leads through the use of erosion and sediment controls (see NSE Erosion & Sedimentation Control Handbook for Construction Sites). Any accumulated water on site will be treated and pumped to an adjacent catch basin in accordance with HRM Bylaw W-101. The proposed construction will not cause negative impacts to the storm systems or affect drainage paths.

Note that the Stormwater Management Plan for this project (prepared by others), identifies surface drainage patterns, catch basin locations, material storage locations and protection measures, construction phasing, site entrance/exit locations, and runoff quantity and control measures (for construction phases and at project completion).

#### **SECTION 7.3.2 – NOISE POLLUTION**

The contractor will at all times adhere to the HRM Noise Bylaw (N-200). No work will take place on the project site outside those hours identified in Section 2 of this report.

#### **SECTION 7.3.3 – DUST POLLUTION**

As outlined in Section 5.1 of this report, fencing and opaque mesh will assist in preventing the spread of dust throughout the project site.

In addition to the fencing and opaque mesh, the contractor will be responsible to carry out the following dust/debris controls;

1. Adjacent sidewalks and properties will be regularly swept clean;
2. The excavation access will regularly be topped with clean gravel to prevent tire tracing from trucks;
3. Catch basins within and adjacent to hoarding will have sediment traps installed;

4. On dry days the site will be watered to prevent dust from becoming airborne;

#### **SECTION 7.3.4 – EMISSIONS CONTROL**

All construction vehicles will be required to use the loading area for parking and idling to keep exhaust emissions within the construction zone as much as possible. Vehicles will be staged so that idling will not occur for more than 3 minutes at a time. Note that, unless a vehicle motor is required to run to complete work functions, it must be turned off after no more than 3 minutes. Signs identifying these idling requirements will be posted on the front of the project site office trailer and within the loading area.

#### **SECTION 7.3.5 – RODENT CONTROL**

Rodent movement increases during construction activities. Terminix has prepared a Rodent Control Plan (RCP) to help mitigate this. The RCP applies to all project phases with the goal of preventing movement of rodents off-site to find safe refuge in adjacent areas. See Appendix D.

##### **SECTION 7.3.5.1 – RODENT CONTROL CREDENTIALS**

The company will be certified by the Canadian Pest Management Association (CPMA) and is a member in good standing with the National Pest Management Association (NPMA). All rodent control technicians on site will hold Nova Scotia Environment (NSE) pest control licenses. Proof of these documents will be kept on site at the project site office trailer and remain available at all times.

##### **SECTION 7.3.5.2 – RODENT CONTROL MANAGEMENT**

The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed around the site. Sewer laterals to be removed will be removed in a prompt and timely manner such that they do not provide safe refuge for rodents. In addition, standing water will be promptly pumped off-site to abate attractive conditions for rodent habitation.

Rodent Control will begin 2 weeks prior to the commencement of the demolition phase by placing 10 bait stations around the perimeter of the project site. This will help to lower the number of active rodents inside the project area prior to demolition. Prior to the beginning of demolition, Rodent Control will submit a rodent control effectiveness report to HRM for review. During demolition and excavation of the sit, bait stations will be monitored and replenished.

A rodent control package will be kept on site at all times and be housed in the project site office trailer. It will include copies of Terminix's certifications, letters of good standing, letters of conformance, technician names and licenses, rodent control plans, and rodent control records. The company technicians will be required to sign in and out upon arrival to, and departure from, the project site.

Following completion of this project, Terminix will promptly collect and appropriately dispose of all unused bait, bait stations, and remaining carcasses and will provide a close out letter to HRM outlining the work that was completed throughout construction and confirming that all necessary clean-up has been completed.

#### **SECTION 7.3.6 – LIGHT POLLUTION**

No temporary lighting will be required to illuminate temporary walkways and if required will adhere to the ANSI/IES RP-8-14 Roadway Lighting Guidelines. The design of the lighting will be completed by a Professional Engineer (P.Eng.) registered in the province of Nova Scotia such that it does not negatively impact adjacent properties of all existing infrastructure.

## SECTION 8 – COMMUNITY ENGAGEMENT & NOTIFICATION

### SECTION 8.1 – NOTIFICATION REQUIREMENTS

A project sign will be mounted at various locations around the job site outlining information specific to the demolition and excavation of the site. This will be a means to inform the public of the planned changes to the site.

The local counsellor will also be notified of the plans for the site, and they will be kept fully up to date on the plans for the site over time. The modifications to this site should not impact any local businesses as the sidewalk closure does impact access to any businesses.

## SECTION 9 – PERMIT & NOTIFICATION REQUIREMENTS

The contractor will be responsible to coordinate a pre-construction meeting 10 days prior to construction commencement to review the CMP on site. Attendees will include the contractor, the owner, HRM, Halifax Water (HW), utility companies, and representatives from neighbouring properties.

## SECTION 10 – REGULATION & ENFORCEMENT

### SECTION 10.1 – INSPECTION & MONITORING

The contractor will be responsible to monitor the implementation of the Construction Management Plan on a daily basis, or more frequently as necessary, to ensure its continued effectiveness. The contractor will complete a daily inspection/maintenance log of all Construction management Plan elements.

As outlined in Section 1, any changes required to this CMP must be sent to HRM for review 10 days (minimum) prior to their proposed implementation. Changes may only be implemented following HRM approval.

## SECTION 11 – SUMMARY

This Construction Management Plan has been prepared with the goal to minimize negative impacts to the community, pedestrians, and traffic throughout the excavation phase of this project while optimizing positive end results. This Construction Management Plan will be used as a minimum standard and any further safety protection required, or methods to provide a more positive and controlled environment will be used throughout all construction phases and/or as necessary as approved by Halifax Reginal Municipality.

Should you have any questions or comments related to this document, please contact Peter Field, P.Eng.. For all construction-related inquiries, please contact the owner, contractor, or traffic control service provider (see contact information in Section 1.2).

Regards,

Original Signed

Peter Field, P.Eng.  
WSP Canada Inc.



## Appendices

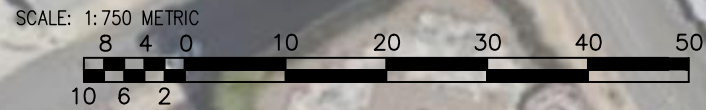
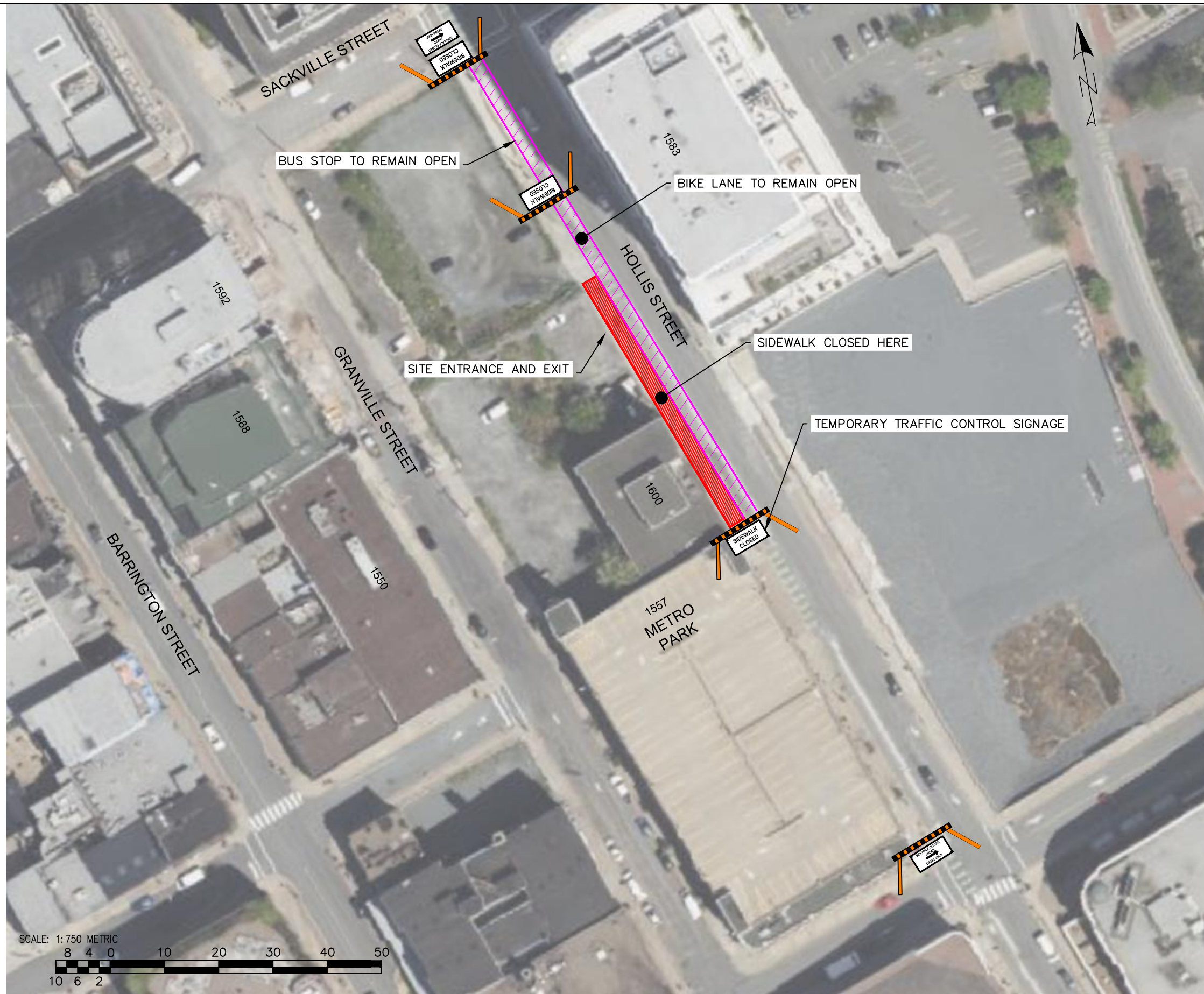


## APPENDIX A – DEMOLITION PHASE CMP DRAWINGS

### i) Pedestrian Management Plan – Demolition Phase

1 Spectacle Lake Drive  
Dartmouth, NS  
Canada B3B 1X7

T: +1 902-536-0956  
F: +1 902-835-1645

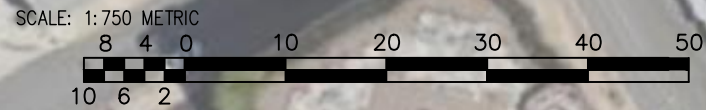
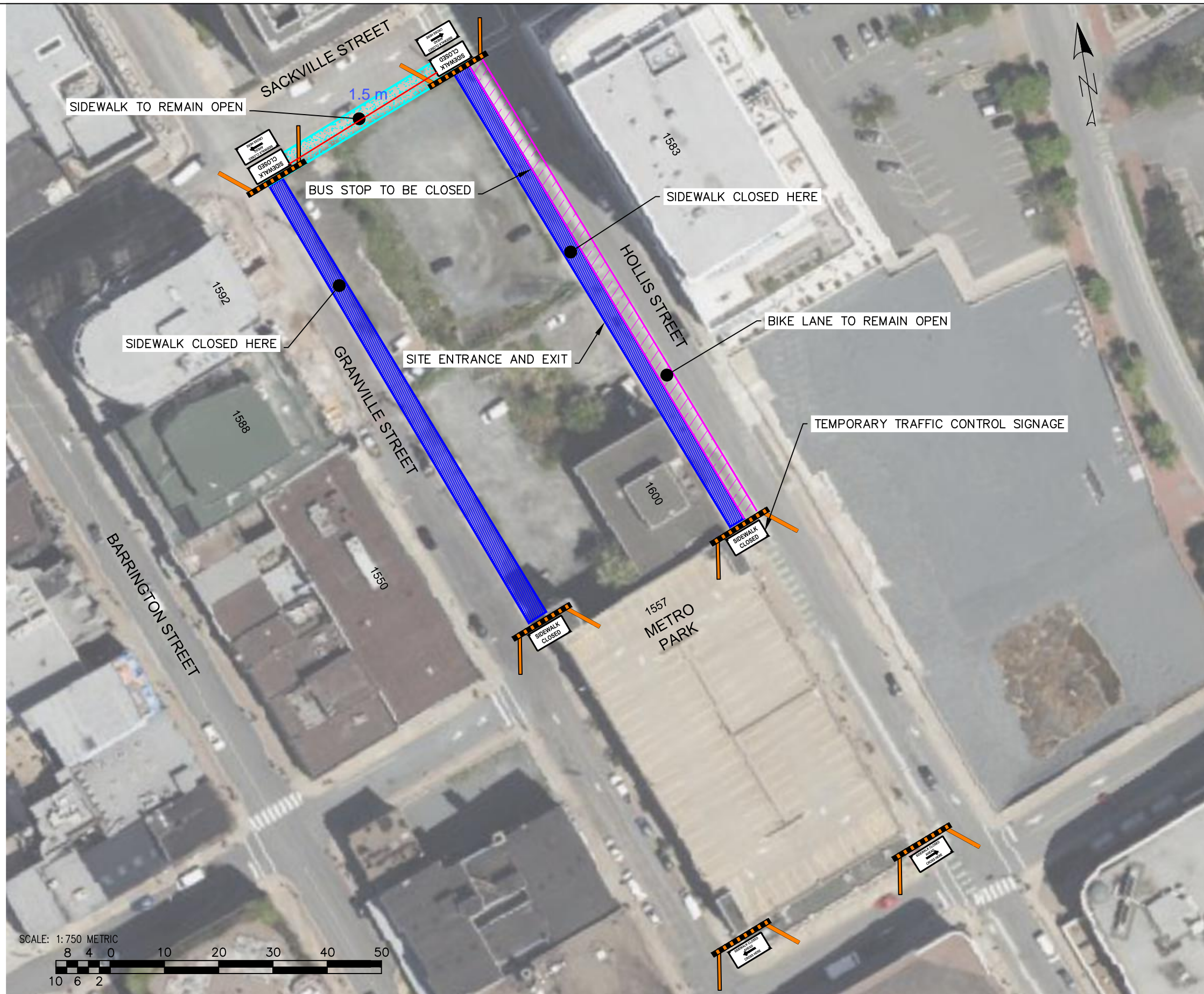


DRAWING TITLE:			
HOLLIS STREET DEMOLITION PEDESTRIAN MANAGEMENT PLAN			
DWN BY:	SH	CKD BY:	-
DES BY:	-	DATE:	OCT. XX, 2022
SCALE:	1:750		



## APPENDIX B – EXCAVATION PHASE CMP DRAWINGS

### ii) Pedestrian Management Plan – Excavation Phase



DRAWING TITLE:			
HOLLIS STREET EXCAVATION PEDESTRIAN MANAGEMENT PLAN			
DWN BY:	SH	CKD BY:	-
DES BY:	-	DATE:	OCT. XX, 2022
SCALE:	1:750		

## APPENDIX C – BLASTING EXCAVATION PLAN



Geotechnical Services Limited  
2448 NS Trunk 2, Waverley, NS, B2R 1S9  
P.O. Box 5441

[www.geo-tech.ca](http://www.geo-tech.ca)

### RE: 1568 Hollis Street – Blasting Excavation

*March 08, 2022*

Geo Technical Services Ltd. is being contracted to carry out the blasting work at 1568 Hollis Street.

The cut at 1568 Hollis Street will be created using blasting methods to break rock, followed by the excavation of the material. The excavation depth will be 80-ft below existing grade on the side closest to Granville Street, and 50-ft below existing grade on the side closest to Hollis Street. The material will be blasted in 10-ft benches that will be stabilized and cleared as blasting proceeds. The blast pattern will change to smaller holes when within 8-ft of the final wall adjacent to the parking structure at 1554 Hollis Street. Blasting will stop 4-ft from the adjacent structure and alternate breaking methods will be used. The total work for the drilling and blasting component may take up to 12 months.

All blasts will be performed under the supervision of a Class 1 blaster with site access controlled. The blasts will be monitored by a Qualified Monitor and recorded to ensure compliance with Nova Scotia Blasting Regulations. The PPV will remain below 50mm/s and air blast measurements will remain below 128 decibels. Warning signs notifying the public of the blasting operations will be placed on all public roadways leading to the site within 100m of the blast site. The blasting operations will have no impact to public traffic.

A blast plan including the blast design, blasters information, map of area, pre-blast surveys, and other required documents will be submitted to obtain a blasting permit from HRM prior to beginning blasting. The residents within the required radius will be appropriately notified of the blasting operations. The blasting operations will follow the HRM Noise By-Law B-600 and be restricted to between 8:00AM and 6:00PM, Monday to Friday. No blasting will be carried out during weekends, holidays, and evenings after official sunset.



## APPENDIX D – RODENT CONTROL PLAN

- i) **Rodent Control Program to existing building on Hollis St**
- ii) **Exterior rodent control to neighbouring buildings and within HRM ROW**

The devices to be used will be as follows

- **10 External tamper resistant bait stations** – These devices are your first line of defence for an increase of rodent activity through all 3 phases of construction.
- **Monthly Inspections** – Replenishment of bait and inspection of devices.
- **Electronic reporting** – Access information on rodent activity and consumption levels.

As discussed, TERMINIX will bait for rodents through both phases as followed:

- **Demolition | Excavation** - We will place **10** tamper resistant bait stations around the exterior of the property. These devices will be inspected, and bait replaced each month.



# APPENDIX E – PRE-HAZARD ASSESSMENT

i) **Monday March 21, 2022**

## \* PRE-START HAZARD ASSESSMENT 2(HC)

<b>Label</b>	Sky Halifax Excavation (revision)
	United Gulf Construction Inc.
	Monday, March 21st 2022, 9:52 AM (ADT -03:00)

### General Information

**Site**

Sky Halifax Excavation

**Location**

1568 Hollis Street  
Halifax Nova Scotia

Prepared By: *Alireza Saboori*



**Assisted By:**

**Howard Sparkes**

Client Supervisor/Foreman  
*Alireeza Saboori*

**Scope Of Work:**  
*Excavation for a 5 story below grade parking area and a 21 story above grade apartment building.*

**Management Review Initial or signature:**  
  
*Alireeza Saboori*

<b>YES</b> NO N/A	<b>Site Visit Completed?</b>
<b>YES</b> NO N/A	<b>Will Sub Contractors be Hired by Client?</b>



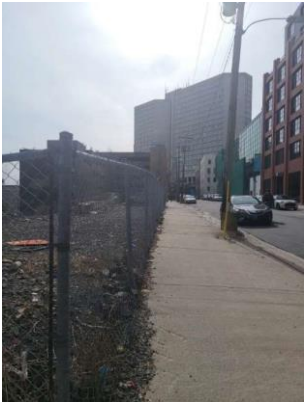

**Hazard Assess** ment (?=Safe X=At Risk N/A=Not Applicable)

<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Safety Policy/Forms</b> <i>Will be available on site</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>OH&amp;S Act /Reg.s</b> <i>Will be available on site</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Emergency Info / Evac.</b> <i>Posted on site and reviewed at new employee orientation. Muster station will be established prior to mobilization.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>MSDS/WHMIS</b> <i>Will be available on site</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Meetings</b>  <i>All employers to conduct Bi-Weekly toolbox meetings.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Safety Committee/Rep.</b> <i>When site exceeds 19 full time workers a JOHS committee will be established.</i>





<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>First Aid Kit/Eye Wash</b> Will be available in Vehicles and Equipment and in site office. 15 Minute eye wash station will be established at site office.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Fire Extinguisher</b> Will be available in Vehicles and Equipment and in site office. 15 Minute eye wash station will be established at site office.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Facilities/Sanitation/Infection Control/Other Health Procedures</b> Toilet and Wash Up facilities will be established prior to mobilization.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>PPE/Worn/Adequate</b> During Excavation minimum PPE will be hard hat, safety footwear and reflective clothing or vest. All other protection as required.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Hot/Cold Conditions</b>
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Barricades/Signs</b> Site is fenced with gates for vehicular traffic. Gates will be locked there is no work activity. Signage to be placed on fence as per posting requirements.
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>House Keeping</b>
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Storage</b>
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Trenching/Excavation</b>
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Vehicles/Equipment</b>
<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N/A	<b>Tools</b>

<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Electrical/Lighting</b> <p> Overhead wires are outside excavation area.</p> <div style="display: flex; justify-content: space-around;">   </div>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Fuel</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Hazardous Material</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Heaters</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Roofing/Torch/Hot Pot</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Welding/Cutting</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Fall Protection</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Scaffolds/Swing Stage</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Man lifts/Buckets</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Traffic Controls</b> <div style="display: flex; justify-content: space-around;">   </div>
<input checked="" type="checkbox"/> <input type="checkbox"/> N/A	<b>Exits</b>



<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	Stairs/Ladders/Rails
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	Rigging/Hoisting
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	Compressed Air/Gas
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	Lock Out/Tag Out
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	Confined Space
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	TDG

Other No comments

**Hazard and Hazard Controls**

Hazard Category & Hazard Housekeeping

- 1) Slips , trips, falls
- 2) Blowing debris
- 3) Combustible material

Hazard Control 1) Clean up of walking areas to occur daily with timely removal from site

- 2) Waste bins with covers to be provided
- 3) No smoking policy and daily clean up and removal of waste material. As per specification no burning of rubbish or debris on site.

Completed Date No comments

By Whom: Alireza Saboori

**Exposure**

B - Reasonably Probable (Eventually)

**Severity**

3 - Minor (Non-Serious Injury or Damage)

**Hazard and Hazard Controls**

Hazard Category & Hazard Material Storage

- 1) Material falling
- 2) Combustibles
- 3) Environmental Spills of chemicals (Fuels and Lubricants)



Hazard Control	1) Material to be stored away from traffic areas and stacked in a manner to prevent tripping 2) No Smoking policy and no burning on site 3) Designated storage and refueling area to be established,
Completed Date	No comments
By Whom:	Alireza Saboori
<b>Exposure</b>	
C - Remote (Could At Some Point)	
<b>Severity</b>	
2 - Serious (Minor Injury or Damage)	

**Hazard and Hazard Controls**

Hazard Category & Hazard	Trenching Excavation 1) Collapse of excavation banks 2) Struck by vehicles/equipment 3) Contaminated Soils exposing employees to chemicals 4) Striking underground utilities
Hazard Control	1) Safe work procedure for excavation to be provided by subcontractor 2) PPE high visibility vest/clothing, safe work practices around heavy equipment, site traffic control plan established. 3) Geotechnical analysis and report for soils. Follow Nova Scotia Guide and regulations for handling and disposal of contaminated soils 4) Obtain clearance reports from all utilities prior to excavation and renew reports as required.
Completed Date	No comments
By Whom:	Alireza Saboori
<b>Exposure</b>	
B - Reasonably Probable (Eventually)	



<b>Severity</b>	
2 - Serious (Minor Injury or Damage)	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	<i>Vehicle/ Equipment</i> 1) <i>Struck by Vehicle - Public</i> 2) <i>Struck by vehicle/equipment- Employee</i> 3) <i>Overturning on site</i> 4) <i>Mechanical Failure</i> 5) <i>Environmental Spills</i>
Hazard Control	1) <i>Traffic Control plan, sidewalk closures and traffic control personal where required.</i> 2) <i>Safe Work practice for working around heavy vehicles and equipment</i> 3) <i>Safe work procedures for vehicles and equipment</i> 4) <i>Subcontractor maintenance policy and practices. Pre use equipment inspection procedure</i> 5) <i>Follow safe work procedure for refueling, fuel and oil storage and spill contingency plan to be developed.</i>
Completed Date	<i>No comments</i>
By Whom:	<i>Alireza Saboori</i>
<b>Exposure</b>	

<b>Severity</b>	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	<i>Hand and power tools</i> 1) <i>Electrocution</i> 2) <i>Cuts and abrasions</i> 3) <i>Noise</i> 4) <i>Eye Injuries</i> 5) <i>Struck by injuries</i>



Hazard Control	<ol style="list-style-type: none"><li>1) <i>Inspect all power tools before each use. Tag out and remove from service any broken or defective tools or extension cords.</i></li><li>2) <i>Follow all safe work procedure and manufacturers specifications for power and hand tools.</i></li><li>3) <i>Wear hearing protection when noise levels are suspected to exceed 80 db. (General guide "if you cannot hear a person near you speak you require hearing protection")</i></li><li>4) <i>Eye protection to be provided when hazard to the eyes exists</i></li><li>5) <i>High visibility clothing and safe work practice around heavy equipment.</i></li></ol>
Completed Date	<i>No comments</i>
By Whom:	<i>Alireza Saboori</i>
<b>Exposure</b>	
<input type="checkbox"/> B - Reasonably Probable (Eventually)	
<b>Severity</b>	
<input type="checkbox"/> 3 - Minor (Non-Serious Injury or Damage)	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	<i>Fuel storage and handling</i>
Hazard Control	<i>Follow safe work procedure for refueling equipment</i>
Completed Date	<i>No comments</i>
By Whom:	<i>Alireza Saboori</i>
<b>Exposure</b>	
<input type="checkbox"/> C - Remote (Could At Some Point)	
<b>Severity</b>	
<input type="checkbox"/> 3 - Minor (Non-Serious Injury or Damage)	



## Hazard and Hazard Controls

### Hazard Category & Hazard

- Traffic Hazards*
- 1) *Public injury*
  - 2) *Equipment/Utility Damage*
  - 3) *Vehicle collisions*

### Hazard Control

- 1) *Traffic Control plan that includes sidewalk closures and signage*
- 2) *Remove all utilities and service in excavation area*
- 3) *All vehicle operators must follow Motor Vehicle Act and have a valid motor vehicle license for the vehicle operated.*

### Completed Date

*No comments*

### By Whom:

*Alireza Saboori*

### Exposure

**C - Remote (Could At Some Point)**

### Severity

**1 - Immediate Danger (Death, Disaster)**

## Hazard and Hazard Controls

### Hazard Category & Hazard

*Stairs, ladders and Exits*

### Hazard Control

*As excavation progresses and scaffold stair will be erected to provide safe access/egress from the site.*

### Completed Date

*No comments*

### By Whom:

*Alireza Saboori*

### Exposure



**B - Reasonably Probable (Eventually)**

**Severity**

**2 - Serious (Minor Injury or Damage)**

**Hazard and Hazard Controls**

**Hazard Category & Hazard**

- Rigging/hoisting*
- 1) *Hand/body injuries*
  - 2) *Equipment/Rigging failure*
  - 3) *Material falling*

**Hazard Control**

- 1) *Awareness of pinch points and only trained employees to perform rigging*
- 2) *Follow NS Technical Safety Act and ASME Guidelines for rigging and equipment*
- 3) *Crane swing areas to be established. No load is to pass over a workers unless they are directly involved in landing the load.*

**Completed Date**

*No comments*

**By Whom:**

*Alireza Saboori*

**Exposure**

**C - Remote (Could At Some Point)**

**Severity**

**1 - Immediate Danger (Death, Disaster)**

**Hazard and Hazard Controls**

**Hazard Category & Hazard**

- Compressed Gas Hazards*
- 1) *Fire/Explosion*
  - 2) *Projectile*



Hazard Control	<p>1) Follow all procedures for safe storage and handling of compressed gasses</p> <p>2) Keep cylinders away and out of the path of moving equipment.</p>
----------------	---

Completed Date	No comments
----------------	-------------

By Whom:	Alireza Saboori
----------	-----------------

Exposure	<p><b>C - Remote (Could At Some Point)</b></p>
----------	--

Severity	<p><b>1 - Immediate Danger (Death, Disaster)</b></p>
----------	--

### Hazard and Hazard Controls

Hazard Category & Hazard	<p><i>Blasting</i></p> <ol style="list-style-type: none"> <li>1) Projectiles</li> <li>2) Adjacent property damage</li> <li>3) Equipment damage</li> <li>4) Public Injuries.</li> </ol>
--------------------------	--

Hazard Control	<p>1-4; Consultant has established parameters for blasting. Contractor to provide site specific safety plan.</p>
----------------	--

**RE: 1508 Hollis Street – Blasting Excavation**  
March 04, 2012

Dear Technical Services Ltd. as being contracted to carry out the blasting work of 1508 Hollis Street, the work of 1508 Hollis Street will be conducted using blasting methods to break rock. Following the excavation of this material, the excavation depth will be 90 ft below existing grade on the site adjacent to Cavendish Street, and 50 ft below existing grade on the side closer to Hollis Street. The excavation will be situated in 10 ft narrow front will be situated and covered as blasting proceeds. The blast pattern will change to make holes when within 10 ft of the face and subject to the pending structure of 1508 Hollis Street. Blasting will stop 4 ft from the adjacent structure and adequate safety measures will be used. The total cost for the drilling and blasting equipment may take up to 10 months.

All blasts will be performed under the supervision of a Class 1 blaster with the license provided. The blaster will be responsible for a qualified blaster and must be trained to ensure compliance with local blasting regulations. The PM will oversee these activities and all blast measurements will remain below 120 dB(A) peak. Warning signs marking the periphery of the blasting operations will be placed on all public exposures marking to the site within 100 ft of the blast site. The blasting operations will have no impact on public traffic.

A final plan covering the blast design, blasting information, maps of area, permit numbers, and other required documents will be submitted to obtain a blasting permit from HRA prior to beginning blasting. The resident within the required notice will be appropriately notified of the blasting operation. The blasting operations will follow the HRA noise by law 4020 and be subject to the HRA and HRA and HRA. Measures to help, including but not limited to, warning systems, facilities, and ensuring other official work.

Completed Date	No comments
----------------	-------------



By Whom:	<i>Alireza Saboori</i>
<b>Exposure</b>	
<b>A - Probable (Immediately or Soon)</b>	
<b>Severity</b>	
<b>1 - Immediate Danger (Death, Disaster)</b>	
<b>Additional Information</b>	
<b>List Critical Task</b>	
<i>Excavation</i>	
<i>Blasting</i>	
<b>Critical Task Control</b>	
1) <i>Excavation - Safe work plan</i> 2) <i>Blasting- Safe work plan by consultant and contractor.</i>	

Original [View](#)

**Howard Sparkes, Safety Consultant** **Original Signed**  
 March 21st 2022, 9:52 AM (ADT -03:00)



Revised on March 21st 2022, 10:12 AM (ADT -03:00) Current View

**Howard Sparkes, Safety Consultant** 44.7048776, -63.8573239 **Original Signed**  
 March 21st 2022, 10:12 AM (ADT -03:00)



ii) **Monday March 28, 2022**

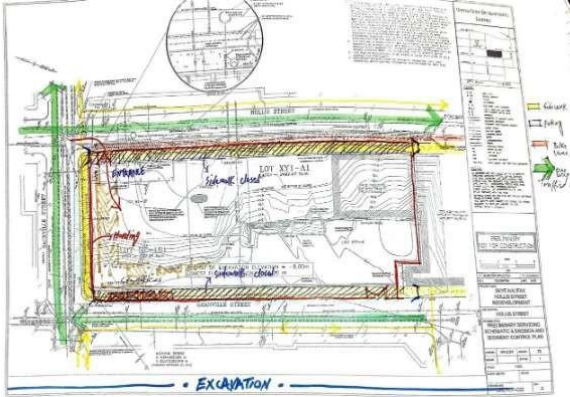
**\* PRE-START HAZARD ASSESSMENT 2(HC)**

<b>Label</b>	Sky Halifax Demolition (revision)
	United Gulf Construction Inc.
	Monday, March 28th 2022, 1:19 PM (ADT -03:00)

**General Information**

Site

Sky Halifax Demolition



Note: See Public Protection Plan  
Area to be addressed

Location

1568 Hollis Street  
Halifax Nova Scotia



Prepared By:

Alireza Saboori

Assisted By:

Howard Sparkes

Client Supervisor/Foreman

Alireza Saboori

Scope Of Work:

Demolition of structure on the property of future Sky Halifax Development site.

Management Review Initial or signature:

Alireza Saboori

YES NO N/A

Site Visit Completed?

YES NO N/A

Will Sub Contractors be Hired by Client?










All named subs to be submitted to owners rep upon contract reward.

Hazard Assessment (?=Safe X=At Risk N/A=Not Applicable)

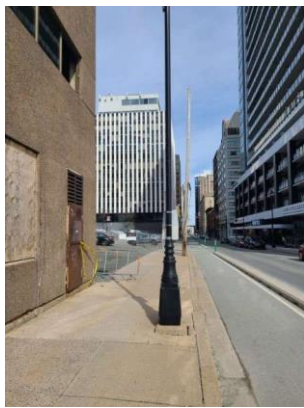
N/A

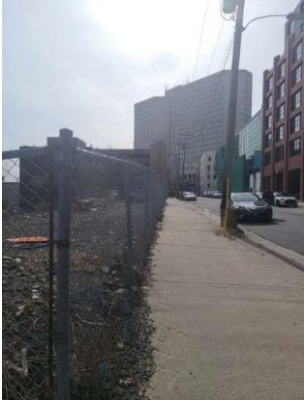

Safety Policy/Forms

Will be available on site

<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>OH&amp;S Act /Reg.s</b>  <i>Will be available on site</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Emergency Info / Evac.</b>  <i>Posted on site and reviewed at new employee orientation. Muster station will be established prior to mobilization.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>MSDS/WHMIS</b>  <i>Will be available on site</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Meetings</b>  <i>All employers to conduct Bi-Weekly toolbox meetings.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Safety Committee/Rep.</b>  <i>When site exceeds 19 full time workers a JOHS committee will be established.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>First Aid Kit/Eye Wash</b>  <i>Will be available in Vehicles and Equipment and in site office. 15 Minute eye wash station will be established at site office.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Fire Extinguisher</b>  <i>Will be available in Vehicles and Equipment and in site office. 15 Minute eye wash station will be established at site office.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Facilities/Sanitation/Infection Control/Other Health Procedures</b>  <i>Toilet and Wash Up facilities will be established prior to mobilization.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>PPE/Worn/Adequate</b>  <i>During Demolition Hard Hat, Safety Boot, Eye Protection and Reflective Clothing must be work at all times.</i>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Hot/Cold Conditions</b>

<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Barricades/Signs</b> <p>Overall Site is fenced with gates for vehicular traffic. Gates will be locked there is no work activity. Signage to be placed on fence as per posting requirements.          Access doors in existing building will be blocked to not allow unauthorized access.</p>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>House Keeping</b> <p>Demolition Debris to be sorted and recycled, Reused where possible</p>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Storage</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Trenching/Excavation</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Vehicles/Equipment</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Tools</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A	<b>Electrical/Lighting</b> <p>All electrical feeds to the building will be disconnected prior to demolition.</p>



<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Fuel</b> Equipment will be refueled by Contractor on site.
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Hazardous Material</b> A report certifying all hazardous materials has been issued.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Heaters</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Roofing/Torch/Hot Pot</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Welding/Cutting</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Fall Protection</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Scaffolds/Swing Stage</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Man lifts/Buckets</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Traffic Controls</b>  
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Exits</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Stairs/Ladders/Rails</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Rigging/Hoisting</b>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Compressed Air/Gas</b>
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Lock Out/Tag Out</b> Confirmation of water shut off by HRW.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>Confined Space</b>





<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> N/A TDG	
Other	No comments
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	Housekeeping 1) Slips , trips, falls 2) Blowing debris material 3) Hazardous substances
Hazard Control	1) Clean up of walking areas to occur daily with timely removal from site 2) Waste bins with covers to be provided 3) Hazardous substances
Completed Date	No comments
By Whom:	Alireza Saboori
<b>Exposure</b>	
<input type="checkbox"/> B - Reasonably Probable (Eventually)	
<b>Severity</b>	
<input type="checkbox"/> 3 - Minor (Non-Serious Injury or Damage)	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	Material Storage 1) Material falling 2) Combustibles 3) Hazardous substances confirmation reports
Hazard Control	1) Material to be stored away from traffic areas and stacked in a manner to prevent tripping 2) No Smoking policy and no burning on site 3) confirmation all substances have been removed.
Completed Date	No comments
By Whom:	Alireza Saboori
<b>Exposure</b>	
<input type="checkbox"/> C - Remote (Could At Some Point)	



<b>Severity</b>	
2 - Serious (Minor Injury or Damage)	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	<i>Vehicle/ Equipment</i> 1) <i>Struck by Vehicle - Public</i> 2) <i>Struck by vehicle/equipment- Employee</i>  3) <i>Overturning on site</i> 4) <i>Mechanical Failure</i> 5) <i>Environmental Spills</i>
Hazard Control	1) <i>Traffic Control plan, sidewalk closures and traffic control personal where required.</i> 2) <i>Safe Work practice for working around heavy vehicles and equipment</i> 3) <i>Safe work procedures for vehicles and equipment</i> 4) <i>Subcontractor maintenance policy and practices. Pre use equipment inspection procedure</i> 5) <i>Follow safe work procedure for refueling, fuel and oil storage and spill contingency plan to be developed.</i>
Completed Date	<i>No comments</i>
By Whom:	<i>Alireza Saboori</i>
<b>Exposure</b>	
<b>Severity</b>	
<b>Hazard and Hazard Controls</b>	
Hazard Category & Hazard	<i>Hand and power tools</i> 1) <i>Electrocution</i> 2) <i>Cuts and abrasions</i> 3) <i>Noise</i> 4) <i>Eye Injuries</i> 5) <i>Struck by injuries</i>



Hazard Control

- 1) *Inspect all power tools before each use. Tag out and remove from service any broken or defective tools or extension cords.*
- 2) *Follow all safe work procedure and manufacturers specifications for power and hand tools.*
- 3) *Wear hearing protection when noise levels are suspected to exceed 80 db. (General guide "if you cannot hear a person near you speak you require hearing protection")*
- 4) *Eye protection to be provided when hazard to the eyes exists*
- 5) *High visibility clothing and safe work practice around heavy equipment.*

Completed Date

*No comments*

By Whom:

*Alireza Saboori*

**Exposure**

**B - Reasonably Probable (Eventually)**

**Severity**

**3 - Minor (Non-Serious Injury or Damage)**

**Hazard and Hazard Controls**

Hazard Category & Hazard

*Fuel storage and handling*

Hazard Control

*Follow safe work procedure for refueling equipment*

Completed Date

*No comments*

By Whom:

*Alireza Saboori*

**Exposure**

**C - Remote (Could At Some Point)**

**Severity**

**3 - Minor (Non-Serious Injury or Damage)**



## Hazard and Hazard Controls

### Hazard Category & Hazard

- Traffic Hazards*
- 1) *Public injury*
  - 2) *Equipment/Utility Damage*
  - 3) *Vehicle collisions*

### Hazard Control

- 1) *Traffic Control plan that includes sidewalk closures and signage*
- 2) *Remove all utilities and service in excavation area*
- 3) *All vehicle operators must follow Motor Vehicle Act and have a valid motor vehicle license for the vehicle operated.*

### Completed Date

*No comments*

### By Whom:

*Alireza Saboori*

### Exposure

**C - Remote (Could At Some Point)**

### Severity

**1 - Immediate Danger (Death, Disaster)**

## Hazard and Hazard Controls

### Hazard Category & Hazard

*Stairs, ladders and Exits*

### Hazard Control

*As excavation progresses and scaffold stair will be erected to provide safe access/egress from the site.*

### Completed Date

*No comments*

### By Whom:

*Alireza Saboori*

### Exposure

**B - Reasonably Probable (Eventually)**

### Severity



**2 - Serious (Minor Injury or Damage)**

**Hazard and Hazard Controls**

**Hazard Category & Hazard**

- Rigging/hoisting*
- 1) *Hand/body injuries*
  - 2) *Equipment/Rigging failure*
  - 3) *Material falling*

**Hazard Control**

- 1) *Awareness of pinch points and only trained employees to perform rigging*
- 2) *Follow NS Technical Safety Act and ASME Guidelines for rigging and equipment*
- 3) *Crane swing areas to be established. No load is to pass over a workers unless they are directly involved in landing the load.*

**Completed Date**

*No comments*

**By Whom:**

*Alireza Saboori*

**Exposure**

**1 - Remote (Could At Some Point)**

**Severity**

**1 - Immediate Danger (Death, Disaster)**

**Hazard and Hazard Controls**

**Hazard Category & Hazard**

- Compressed Gas Hazards*
- 1) *Fire/Explosion*
  - 2) *Projectile*

Hazard Control

- 1) Follow all procedures for safe storage and handling of compressed gasses
- 2) Keep cylinders away and out of the path of moving equipment.



Compressed gases by others must be protected or removed from property.

Completed Date

No comments

By Whom:

Alireza Saboori

Exposure

**C - Remote (Could At Some Point)**

Severity

**1 - Immediate Danger (Death, Disaster)**

Additional Information

List Critical Task

Demolition

Critical Task Control

Follow all swp and sjp.

Original

[View](#)



Original Signed

**Howard Sparkes, Safety Consultant**  
March 28th 2022, 1:19 PM (ADT -03:00)

 44.7048687, -63.8573155

Revised on March 28th 2022, 1:34 PM (ADT -03:00)

Current View

**Howard Sparkes, Safety Consultant**  
March 28th 2022, 1:34 PM (ADT -03:00)

 44.7048687, -63.8573155

Original Signed

Revised on March 28th 2022, 1:47 PM (ADT -03:00)

[View](#)

**Howard Sparkes, Safety Consultant**  
March 28th 2022, 1:47 PM (ADT -03:00)

 44.7048708, -63.8573166

Original Signed



## APPENDIX F – HAUL ROUTE PLAN



March 28<sup>th</sup>, 2022

To: United Gulf Developments Ltd.

Re: Skye Halifax – Truck Haul Route

As per HRM By-Law T-400, the truck will be following the routes identified below:

From construction site located on Hollis Street to Fairview Cove Sequestering Site:

Hollis Street left on Salter Street, left on Lower Water Street, continue Lower Water Street transitioning to Barrington Street, turn right on Africville Road, continue Africville Road entering disposal site on the right.

From Fairview Cove Sequestering Site to construction site located on Hollis Street:

From disposal site left on Africville Road, turn left on Barrington Street, continue Barrington Street transitioning to Hollis Street, turn right into construction site.

Should you have any questions and/or concerns please do not hesitate to contact the undersigned at your earliest convenience:

Original Signed

Dan Wile

Estimator/Project Coordinator

(902) 943-8300

Dan@macadam.construction