Bayers Road and Young Street

Excavation and Construction

Prepared by Geoff MacLean, P.Eng.

Job No. 34839

CONSTRUCTION MANAGEMENT PLAN

0	FEB 2021	ISSUED FOR REVIEW
REVISION #	DATE	DESCRIPTION





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This CMP was prepared in consultation with the developer, contractor, traffic control company and HRM.



Section 1: Introduction

1.1: Project Description and Objectives

The owner is proposing to redevelop the consolidated lands of 6438-6460 Bayers Road and 6419-6467 Young Street between Oxford and Connolly Street. The planned multi residential building development will be comprised of a 5 storey 71-unit multi residential apartment building with ground floor commercial space fronting on Bayers Road, a 3 storey 43-unit multi residential building and 3 townhouse units fronting on Young Street. The development will have two (2) levels of underground parking accessed from Bayers and Young. The land previously housed fourteen buildings situated on 14 lots which is to be consolidated post demolition. This CMP has been prepared to address excavation, services and building constriction; demolition of the existing buildings was completed and addressed under separate CMP.

The building fronting Bayers Road will be close to the street line however on Young Street it will be set back from the street line to maintain distance from HRM's street trees and overhead wires. For public safety during site excavation and construction, we are proposing to close sidewalks in front of the project on Bayers Road and Young Street. On Bayers Road a portion of the street lane directly adjacent to the project will be used as the primary truck layby. These encroachments will allow full-size concrete pump trucks and delivery vehicles to fit alongside the building, minimizing construction timelines. Both encroachments will maintain two-way traffic on Bayers and Young Streets in front of the project site. Minimal on street parking will not be affected.

The project borders residential properties along its western property line, residential properties opposite Bayers Road, commercial opposite Young Street, and the commercial building, Doctor Piano along the eastern property line. All neighbouring properties will remain undisturbed throughout construction and all neighbours will be notified and updated on construction ahead of time.

This CMP document 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. SDMM, together with the developer, contractor, and traffic control company, have prepared this Construction Management Plan (CMP) following HRM's CMP (2020) guidelines and administrative order (2018-005-ADM) in an effort to reduce potential negative impacts on the surrounding community, due to construction activities for this project.

The most up-to-date version of this document will be kept on-site at all times during construction. Should ownership or contracting services change throughout the course of this project, HRM will be notified immediately and new parties will be required to comply with the approved CMP in writing.

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1.2: Project Contact Information

The project team for the proposed development consists of:

Role	Name	Contact	Address	Phone
Developer	City Centre Properties	Boston Ghosn	50 Bedford Hwy, Suite 300	(902) 880-1877
			Halifax, NS, B3M 0J9	
Site Contractor	Atlantic Road	Greg MacDonald	6 Belmont Avenue,	(902) 830-6411
	Construction and		P.O. Box 89	
	Paving		Eastern Passage, NS	
			B3G 1M7	
Traffic Control	Frontline Traffic	Phil Pruneau	6 Belmont Avenue,	(902) 818-5548
Company	Services		P.O. Box 89	
			Eastern Passage, NS	
			B3G 1M7	
Rodent Control	Riteway Pest Control	Gary Sampson	2489 St Margaret's Bay Rd,	(902) 440-0592
Company			Timberlea, NS, B3T 1H1	

Section 2: Project Schedule and Logistics

The following is a brief summary of anticipated major project milestones broken down by phase, based on receiving permits from HRM at the end of **March**.

2.1: Schedule

Project Phase	Start Date		End Date	Time Period
Rodent Control Program	Complete	-	Complete	n/a
Demolition	Complete	-	Complete	n/a
Excavation	Apr 1, 2021	-	Jun 30, 2021	3 Months
Substructure	Jul 1, 2021	-	Oct 1, 2021	3 Months
Superstructure	Oct 1, 2021	-	Apr 1, 2023	18 Months
Flat Works	Mar 1, 2023	-	Apr 31, 2023	1 Month
Service installs	Jul 1, 2022	-	Jul 31, 2022	1 Month
Service Abandonments	Jul 1, 2022	-	Jul 31, 2022	1 Month

2.2: Key Dates

Take-over of encroachment
 Finish encroachment
 Duration of encroachment:
 Service work
 April 2021
 April 2023
 24 months
 July 2022 (weekend only)

2.3: Hours of Work

Work will generally take place during normal working hours as outlined in HRM's Noise By-Law and Traffic Control Manual Supplement; these are noted below.

Monday to Friday: 7:00 a.m. – 9:30 p.m.
 Saturdays: 8:00 a.m. – 7:00 p.m.
 Sundays & Statutory Holidays: 9:00 a.m. – 7:00 p.m.
 Servicing Work: Noted above

Although work is not expected to be required outside of the times listed above, if, for any reason, work is anticipated to be required outside of these hours, the contractor will apply to HRM for approval 5 business days (minimum) in

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advance of such work and obtain approval prior to proceeding. It is noted that HRM's Noise By-Law cannot be altered without HRM council approval; work must adhere to the Noise By-Law.

Section 3 – Relevant Regulations & Guidelines

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;
- The Transportation Association of Canada (TAC)'s Manual of Uniform Traffic Control Devices for Canada (MUTCDC);
 and
- d) Nova Scotia Temporary Workplace Traffic Control Manual (NSTCM).

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) B-600 Blasting; and
- j) HRM TCM Supplement.
- k) G-200 Grade Alteration and Stormwater Management
- I) Admin Order 2018-005-ADM regarding encroachments
- m) Admin Order 2020-010-OP regarding stormwater management standards for development activities
- n) HRM Design Guidelines and Standard Details

Section 4: Vehicle Management

Prior to any construction activity, all temporary workplace traffic control devices and signage will be in place as per the Nova Scotia Temporary Workplace Traffic Control Manual (latest edition). The traffic control company will install the signage and ensure that they are maintained throughout the project. This project's Traffic Control Plans (TCPs) are listed in the Appendix.

4.1: Vehicular Traffic Control

Various Traffic Control Plans (TCP) has been prepared by the traffic control company and is provided in the Appendix.



Throughout all phases of construction two-way vehicular traffic will be maintained. While services are installed, and service abandonments are addressed temporary lane closures will be required. These lane closures are anticipated to be short duration during service work. Please refer to the appendices for required traffic control plans.

4.2: Haul Route and Staging Areas

The truck Haul Route Plan has been prepared by the traffic control company and is provided in the appendix. The selected route is intended to minimize traffic congestion and maximize pedestrian safety. During the excavation and construction phase vehicles will enter and exit the site at the gate location which will be clearly marked for function.

Deliveries shall be contained within private property or the encroachment area. We anticipate concrete delivery trucks backing into the encroachment via the east gate on Bayers Road; a spotter on the ground will be required to aid with deliveries of this nature.

4.3: Vehicular Traffic Notifications

Should any traffic disruptions be required, notifications will be distributed to HRM and properties in the impacted area a minimum of five (5) days in advance of vehicular traffic closures. A sample traffic notification letter can be found in the appendix.

4.4: Emergency Vehicles

In the event of unforeseen emergency situations, the site will remain accessible to emergency vehicles at all times.

4.5: Parking

Currently on street public parking adjacent to the project on Bayers Road is currently prohibited, while parking on Young Street is only prohibited during peak hours. On street parking will be temporarily affected while the perimeter fencing is installed on along Young Street.

To facilitate concrete deliveries from Bayers Road we anticipate trucks backing into the encroachment, the existing 15minute parking space in front of civic 6426 will need to be temporary closed during this time.

It is noted that passenger vehicles are not permitted to park within any encroachment areas. To minimize parking requirements in adjacent neighbourhoods, on-site workers will utilize private property and workers will be encouraged to carpool or rely on public transit.

No alternate public parking is anticipated as part of this project; resulting is a net loss of parking.

4.6: Bus Stops

Bayers Road is a bus route however the bus stops are not near the project site. Young Street between Oxford and Connolly Streets is not a bus route. This project will not affect bus stops.

Existing westbound lane widths are proposed to remain while the Bayers Road eastbound travel lane is planned to be narrowed to 4.0m, remaining sufficient for bus traffic.

4.7: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.



Section 5: Pedestrian Management

A Pedestrian Management Plan (PMP) has been prepared by the traffic control company and is provided in the appendix.

Throughout excavation and construction, the project will close the sidewalks on Bayers and Young and a portion of the street lane on Bayers Road in front of the development. This is to ensure that limits of excavation, building construction and deliveries are kept a safe distance from pedestrians with an alternate sidewalk across the street. The sidewalks adjacent to the project will be hoarded off temporarily until construction of the buildings are completed. With existing marked crosswalks at both intersections of Oxford and Connolly, pedestrians will be encouraged to use the sidewalk opposite the site.

5.1: Pedestrian Protection

Pedestrians will be protected by physically distancing them from the project. Fencing and F-type concrete barriers with translucent rigid fencing mounted above shall delineate the encroachment area separating the project from pedestrians. Refer to the appendix for examples of the barriers.

5.2: Pedestrian Safety

Pedestrian safety will be maintained by implementing appropriate signage as shown on the PMP. All navigation and safety signage indicating alternative sidewalks and potential hazards will be inspected and maintained regularly.

5.3: Pedestrian Traffic Notifications

Notifications will be distributed to HRM and properties in the impacted area a minimum of five (5) days in advance of pedestrian traffic impacts.

5.4: Visually Impaired Persons

In keeping with Canadian National Institute for the Blind (CNIB) requirements and as outlined on their 'Clearing Our Path' website; various items will be incorporated into the pedestrian management signage and barriers. Such as, high visibility contrasting colours with appropriate font types (mix of upper and lower-case lettering), font sizes (between 16mm to 51mm) and sign colours (orange background with black lettering or white background with black lettering).

The contractor will use bright orange sawhorse barricades complete with bold-font signage to identify sidewalk termination points. Reflective tape will also be placed on the ends of fencing, hoarding, sawhorse barricades, and concrete barriers to help delineate pedestrian routes and disruptions. Signage and tape colours will vary but will comply with the colour/brightness contrast as outlined by the CNIB website; examples are black/white, orange/black or dark red/white combinations.

5.5: Accessibility

High visibility signage will be used to assist pedestrians to easily navigate around all project related blocked sidewalks.

5.6: Hazard Assessment

A vehicular and pedestrian hazard assessment is provided in the appendix. Any additional site hazards identified or encountered after work has commenced will be added to this list. All personnel on-site will be required to review this list and encouraged to identify additional potential hazards and hazard mitigation methods.

5.7: Pedestrian Management Plans Rendering (PMPR) Signage

The need for a rendered map displayed for pedestrians showing the detoured pedestrian routes are not anticipated for this project given that the pedestrian volumes are low in this area.

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5.8: Pedestrian Detour Wayfinding Signage

The need for pedestrian wayfinding signage directing pedestrians to adjacent businesses is not anticipated for this project given the location.

Section 6: Encroachments & Disruptions

For public safety during site excavation and building construction we are proposing that the project compound be limited to the encroachment area. This will incorporate the public sidewalk on Bayers and Young and a portion of the street lane on Bayers road adjacent to the project. This will move pedestrians to the opposite sidewalks on Bayers Road and Young Street.

The encroachment is planned to be delineated by interlocking F-type concrete barriers complete with rigid fencing with translucent covering mounted above on Bayer Road and rigid construction fencing with translucent covering on Young Street. This fencing will be anchored to the ground to prevent unintentional movement or overturning due to snow and wind loads.

It is noted that this fencing shall **not** be anchored to the sidewalk, **nor** shall the legs of the modular fencing extend onto the sidewalk as this creates an unacceptable tripping hazard which must be avoided. Throughout the project, fencing will be situated to not obstruct vehicle sight lines.

This encroachment is to keep the public away from the excavation zone of influence as well as provide additional room for form workers and deliveries within the encroachment.

Should any utility or traffic disruptions be required, the contractor will first apply to HRM for approval, a minimum of five (5) business days in advance of such work and will then notify neighbours of these disruptions in a timely fashion.

6.1: Demolition

The demolition phase was described under separate CMP document.

6.2: Site Excavation

This includes the excavation and removal of common site material. The building is planned to have two levels of underground parking. If bedrock is found, the contractor will apply for a blasting permit and adhere to the HRM blasting by-law and conditions of the blasting permit. Alternatively, if a blasting permit can not be obtained the site's bedrock will be broken by a series of rock breakers to reach footing elevation.

6.3: Site Services Connection

This includes installation of new water and sewer laterals to their respective mains as well as decommissioning the various existing laterals which will be abandoned. The service installs will require modifications to the encroachment with temporary workplace signage incorporated (refer to the Service Installation Traffic Control Plans (TCP) in the appendix). HRM requires that this service work be limited to weekends only to minimize traffic disruptions. The target dates for this work are provided in the "Key Dates" section above with time of installations adhering to the Noise By-Laws noted above. The intent will be to complete this servicing work and reinstate the street as quickly as possible in order to minimize disruptions to the public.

Before scheduling site services connections, the contractor will notify all neighbouring properties, of the intended timeline for this work.

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The contractor intends to reinstate the street cut during the season of work. It is noted that street cuts cannot be left gravel or open. HRM reinstatement specifications must be met and the travel way must be hard surfaced prior to reopening to the public. Asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15.

6.4: Construction Management Plan Element Inspection and Maintenance

Construction management plan elements will be inspected daily to ensure continued adherence to this CMP. Any deficiencies identified will be reinstated immediately. A CMP's TCP & PMP inspection report summary will be completed for the project, including information on what maintenance activities were conducted. This report must be kept on site at all times and be available to HRM upon request.

6.5: Changes to the Construction Management Plan

All departures from the CMP regardless of the significance must be submitted to the Municipality 10 days in advance for review and approval. Any required changes or modifications to the approved CMP will be submitted to HRM for review and approval prior to implementation.

Section 7: Environmental Factors

7.1: Damage to HRM Infrastructure

Existing sidewalks within the encroachment area will be completely replaced. It is anticipated that sidewalks across the street will not be impacted by excavation or other construction activities. However, while efforts will be made to avoid damage, it is anticipated that additional portions of existing curbs, gutters, and sidewalks may become damaged during the construction process which would require repairs or replacement. Pending HRM's review prior to and after construction and subject to damage due to construction activities, the landowner acknowledges that items may require to be fully replaced rather than repaired. The landowner also acknowledges that any costs incurred to repair or replace this public infrastructure are the responsibility of the owner.

For reinstatement timeline requirements, it is noted that asphalt, concrete curb and sidewalk reinstatement must be completed within 72 hours of disturbance and will be considered temporary if reinstated after October 31st or prior to May 1 in which case permanent reinstatement will be completed by June 15 of the following construction season.

7.2: Protection of Trees

There are street trees within the public right-of-way directly adjacent to the project site on Bayers and Young. It is noted that <u>HRM street trees shall not be touched prior to approval</u> and/or compensation agreements between the developer and HRM Urban Forestry are in place. Adjacent street trees are to be protected during construction in accordance with the HRM Tree Bylaw (T-600). Refer to HRM tree protection zone (TPZ) detail in the appendix.

There are three small diameter street trees on Bayers Road in front of the development site. One of these trees sit within the planned site driveway while the other two are within the planned encroachment. All street trees in front of the development on Bayers Road will need to be removed.

There are ten larger diameter street trees on Young Street in front of the development site. One of these trees sit within a planned driveway while another tree sits within the area of a planned power pole relocation; these two trees on Young Street will need to be removed while the other eight street trees may remain and must be protected as per the HRM tree protection zone (TPZ) detail.

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At this time a formal tree compensation agreement between the developer and HRM has not been established.

7.3: Line Painting and Temporary Crosswalks

An altered centreline is not planned for this project.

7.4: Street and Right-of-Way Cleaning

The portion of public street adjacent to the project will be cleaned daily of any debris from trucks and silt, dirt, or rock that migrates beyond the encroachments. A sweeper truck will be utilized as required. Rock pads will be installed and maintained at all entrances to trap sediment. Where the developer plans to utilize the roadway for their encroachment the developer is responsible to clear snow from the street side of the jersey barriers.

7.5: Protection from Inclement Weather

To protect the public from construction debris during inclement weather, the project site will be enclosed by fencing complete with dust control covering, the site will be regularly reviewed and cleaned, with loose items secured when not in use.

7.6: Storm Water Management

During construction, nearby catch basins may be fitted with filter fabric to prevent debris from entering the storm system. The developer will need to maintain and periodically clean these silt traps. Storm water collected inside the project site will be directed into temporary stormwater settling ponds situated on private property to allow clean water to be pumped into the existing public storm water systems in accordance with HRM By-law W-101 complete with appropriate fees to Halifax Water (HW). Sediment ponds may be shifted and positioned as desired by the site contractor during mass excavation however will generally be placed in localized low points within the site excavation, typically the elevator sump pit.

7.7: Noise, Dust and Emission Control

Dust mitigation for this project will be achieved using rock pads for trucks exiting the site. A water truck and sweeper truck will also be utilized to help prevent dust from becoming airborne and, when required, calcium may need to be used to mitigate dust migration. Additionally, mesh on the inside of the fencing will help to contain any airborne dust inside the site.

Breaking of rock may occur and rock faces cleared to form a wall. Mesh will be used on the inside of all construction fencing to mitigate dust control.

All construction vehicles will be required to use the loading area for parking and idling to keep exhaust emissions within the construction zone. Vehicles will be staged so that idling will not occur for more than 3 minutes at a time.

As indicated above, all work shall be completed in accordance with the HRM Noise By-Law.

7.8: Rodent Control

Rodent movement increases during construction activities. The owner has engaged a rodent control company, who will follow the established Rodent Control Plan (RCP) to help mitigate rodent movement prior to and during construction. The RCP applies to all project phases with the goal of preventing movement of rodents off-site to find safe refuge in adjacent areas. The RCP will consist of a baiting and monitoring program. Bait stations (traps) will be placed as outlined in the NPMA Pest Management Standards for Food Processing & Handling Facilities.

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The RCP will help to lower the number of active rodents in the project area. Bait stations are set along the edges of the project and secured in place using wooden stakes (for open sodded and dirt locations), weighted patio stones (behind walls and on paved areas), and zip-ties (fixed to fences) as per typical industry standards.

Refer to the appendix for a copy of the Rodent Control Plan.

Section 8: Site Protection & Hoarding

8.1: Barriers, Fences, and Gates

The encroachment will be delineated using weighted modular construction fencing and concrete F-type jersey barriers complete with rigid fencing secured to the jersey barriers, total height concrete barrier with fencing structure and fencing alone will be 1.8m or 6ft as per the noted administrative order. This fencing will be covered with a translucent dust control mesh of high quality which will extend a minimum 3m from the public right-of-way. This screening is described in the appendix and will block passersby or tourists view of the construction site. Construction traffic will utilize the proposed gates, gate will not be screened for safety reasons.

Along the private sidelines where non-vehicular traffic is present, the hoarding will be delineated by weighted modular 1.5m (5ft) high fencing or existing fencing where it is at least 1.5m tall. All fencing will have dust control mesh and must be anchored down to prevent unintentional movement or overturning due to snow or wind loads. It is noted that this fencing shall **not** be anchored to the sidewalk, **nor** shall the legs of the modular fencing extend onto the sidewalk as this creates an unacceptable tripping hazard which must be avoided.

Throughout the project, fencing will be situated to not obstruct vehicle sight lines. Gates are to swing open away from the street into site. Gates may be sliding, swing gates or removable fence panels, however, must remain closed when not in use.

The F-type barriers and fencing that define the encroachment will adhere to the Encroachment Plan which is to scale includes dimensions and can be found in the appendix. These areas can be measured for the administering of applicable fees. Encroachment areas and fees will be based on the areas within the public right-of-way enclosed by the barriers and fencing.

Installation of F-Type concrete barriers, fencing and covering will take place during regular working hours as noted above. This work will be scheduled by the contractor after the HRM's pre-construction meeting has been held. HRM will coordinate this pre-construction meeting; the developer, contractor and traffic control company will attend this site meeting. During the process of erecting and tearing down the fencing and translucent covering defining the property line, traffic control elements will be implemented as per Traffic Control Plan (TCP) in the appendix. All work and any traffic interruptions will be coordinated by the contractor who will notify HRM a minimum of five (5) business days before work is scheduled to begin.

8.2: Snow removal

The developer will be responsible to remove snow and ice as required to ensure that emergency access is maintain to the project site, this includes fire hydrants. The contractor will not dump snow or ice onto adjacent property and will truck snow off site as required to prevent the unsafe build-up of snow piles. The contractor will clear snow from outside the jersey barriers to keep the edge of the vehicle travel lane free and clear of snow and ice build up.

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8.3: Emergency Access & Egress

The site will be accessible through gates. These gates are the only locations that will receive equipment/materials during construction and will be locked at all times after work hours. In cases of emergencies, on-site workers will exit the project site through these gates. These gates will remain unlocked at all times when workers are on site in case of emergency allowing unrestricted emergency response units access to the site.

Any existing fire hydrants located adjacent will remain protected from construction activities. These fire hydrants, along with the existing and proposed fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project. Adjacent existing hydrants and fire department connections are not anticipated to be affected by construction.

8.4: Hoarding Aesthetics

The site hoarding will resemble that shown in the appendix; encroachment fee reductions are not anticipated.

8.5: Sight Lines

Fencing and signage will be installed as per the CMP drawings such that vehicle sight lines are maintained around corners.

8.6: Project Information and Contacts

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on the fencing; refer to the appendix for a copy of the Project Information Board and the Encroachment Plan for the planned locations. Refer to the signage specification within the appendix describing the required size, materials, mounting hardware, etc. of these signs.

Section 9: Lifting, Hoisting, and Crane Operations

9.1: Crane Use Overview

This project will incorporate a tower crane, this crane will be stationed within the project site and will be operated under the direct supervision of a licensed crane operator employed by the formwork contractor. The approximate location of the crane tower is shown in the appendix.

It is anticipated that the crane will be assembled and disassembled from within a temporary road closure as per the TCP found in the appendix.

The crane swing will extend over neighbouring properties as shown in the Crane Swing Diagram included in the appendix. The developer will notify these property owners prior to extending the crane over their properties. Refer to the appendix for crane information.

Concrete pump trucks, boom trucks and/or mobile crane trucks will be brought to site to accommodate lifting and hosting materials to upper levels. These trucks will be stationed within the encroachment (see concrete delivery schematic within the appendix) and will be operated under the direct supervision of a licensed crane operator.

If lifting operations are required over the public realm, this area will be closed to access. In all cases of lifting, extreme care will be used to ensure public and worker safety.

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9.2: Transport Canada and Nav Canada Regulations

There are two registered aerodromes in the Halifax region; Halifax International Airport and Canadian Forces Base Shearwater Airfield. According to Transport Canada regulations, the project site is outside of the lands to which regulations for these two aerodromes apply.

9.3: Aerodromes

There are several heliport approaches in the Halifax region; both Emergency Hospitals (QEII and IWK) as well as Point Pleasant Park. Given the location of the project site relative to these various approaches we understand Transport Canada notice does not apply.

Section 10: On-Site Safety and Security

10.1: Site Safety and Security Overview

The contractor will adhere to all Occupational Health & Safety requirements throughout the completion of this project. At a minimum, the following safety protocols will be utilized to further enhance site safety and security:

- a) All workers will be required to have proof of up-to-date safety training;
- a) Personal protective equipment (PPE) will be required for all personnel on site;
- b) Adequate signage will be placed outside the hoarding, which will warn of hazards that may exist;
- c) Gates will be locked and the perimeter fencing secured to provide security against public access during off work hours and will be monitored during operation;
- d) Hoarding will clearly state "No Trespassing Construction Personnel Only" & PPE requirements will be clearly identified (e.g., "Hard Hats and Safety Footwear Must Be Worn Beyond This Point");
- e) Regular safety inspections will be conducted to ensure suitability of hoarding and other safety devices;
- f) Emergency contact information to be prominently posted as per the Project Information Board.

10.2: Material Handling: Loading, Unloading, Delivery and Storage

The contractor will adhere to the procedures stipulated in the Haul Route Plan for delivery of materials. Delivery vehicles will use the designated gates for entry and exit. Timing of deliveries will be coordinated to have the least possible negative impact on regular traffic. The staging and delivery area will be housed on private property within the hoarding limits.

10.3: Emergency Access & Egress

The site will be accessible through a gate stationed at an existing driveway to facilitate construction vehicle access. This gate is the only locations that will receive equipment/materials during construction. This gate will be clearly marked for function. In cases of emergencies, on-site workers will exit the project site through this gate. This gate will remain unlocked at all times when workers are on site in case of emergency allowing unrestricted emergency response units access to the site. Gates will be locked and secured afterhours to provide security against public access during off work hour. Emergency contact information will be posted on project information boards surrounding the site, refer to the encroachment plan for details.

10.4: Security Site Lighting

Security site lighting is not anticipated for this project.

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10.5: Smoking Areas

On site smoking areas will not be provided as this will be a smoke-free site.

10.6: Fire Suppression Systems

The adjacent existing fire hydrants will remain outside the project area and will be protected from construction activities. These fire hydrants, along with any existing adjacent fire department connections (Siamese connections) will be accessible to firefighters throughout all phases of the project.

There are no proposed fire department connections at this stage of the project. These are not available for fire department use until after the building's water supply lines have been installed, tested and commissioned by the water commission, similar with the fire suppression system. This system will not be active until after the building is near complete and the encroachment fencing has been removed.

Section 11: Pre-Construction Consultation & Meeting

11.1: Pre-CMP Community Consultation

Due to the current pandemic, the developer will forego the community consultation meeting. A construction notification letter will be delivered to the properties neighbouring the construction site as well as HRM staff, notifying them of the expected work with contract information for questions and feedback. As part of this notification the surrounding community and businesses will be offered to sign up for a monthly construction project notification from the development. It is understood, HRM requires a confirmation letter from the applicant confirming delivery of notification letters to affected residents. A map indicating these properties has been included in the appendix.

11.2: Project Information and Contacts

To encourage communication between the project team and the public, contact information will be provided on Project Information Boards; these will be posted prominently around the project site on the fencing; refer to the appendix for a copy of the Project Information Board and the CMP Plan for the planned locations. Information on signage size and materials is outlined in the appendix.

11.3: Preconstruction Meeting

Prior to construction the developer, contractor and traffic control company will attend a pre-construction meeting with HRM staff to review the CMP document on site. HRM's engineering technician will confirm the date and time of this meeting; and may wise to waive the requirement.

11.4: Construction Notification

Approximately five (5) business days prior to the encroachment, an additional notification will be circulated to the neighbouring properties, notifying them that work is starting on site.

Section 12: Summary

This construction management plan was prepared with the goal to minimize negative impacts to the community, pedestrians, and traffic throughout the scope of this project. This plan will be used as a minimum standard and any further safety protection required or methods to provide a more positive environment will be used throughout construction work as necessary.

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Should you have any questions or comments related to this document, please contact SDMM. For all construction-related inquiries, please contact the developer, contractor, or traffic control service provider.

Regards,

Servant, Dunbrack, McKenzie & MacDonald Ltd.

Geoff MacLean, P.Eng. Project Engineer

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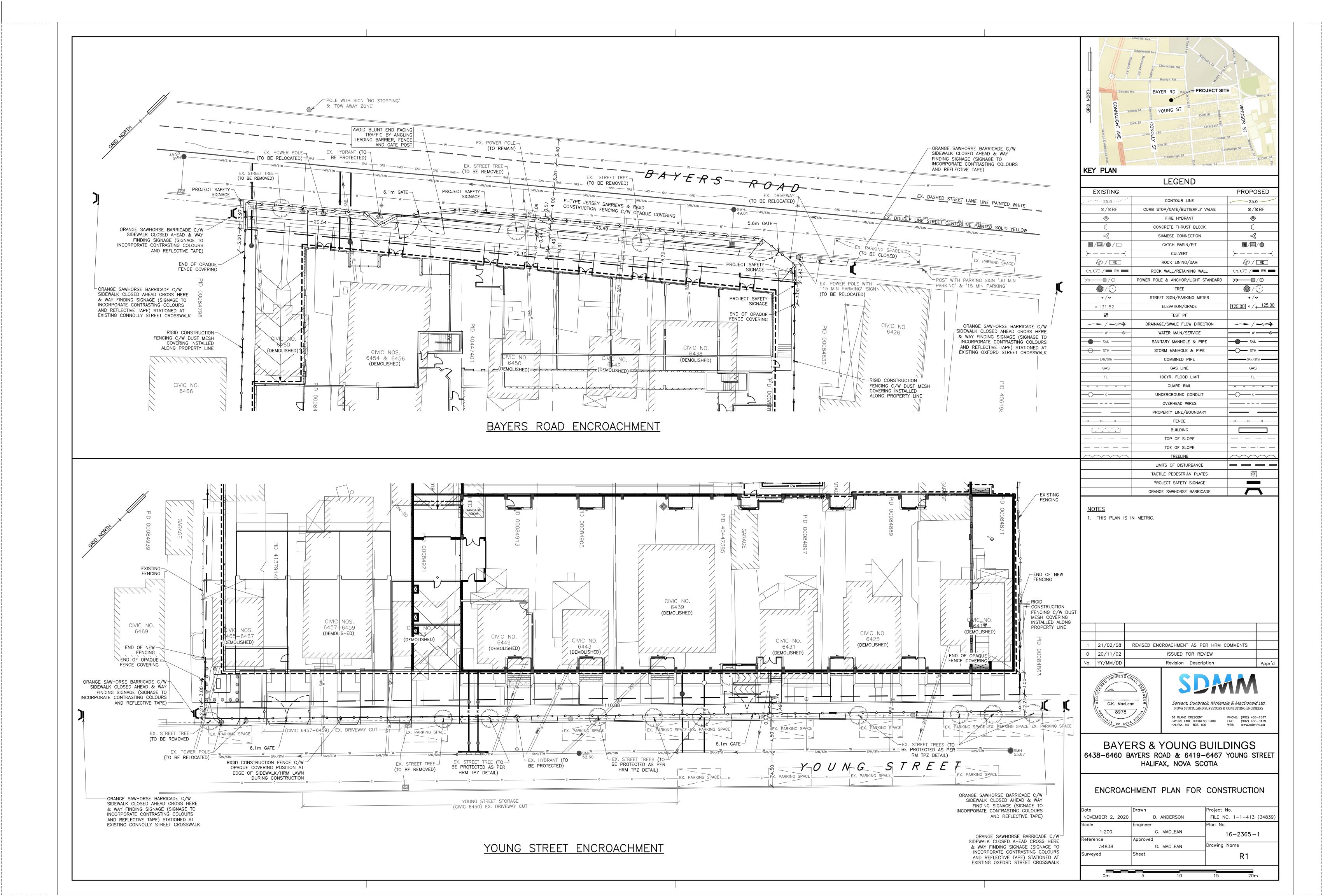
APPENDIX

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Appendix A – Encroachment Plan

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Appendix B – Traffic Control Plans (TCP)

- B-1 Encroachment Signage TCP
- B-2 Barrier Installation TCP
- B-3a Crane Installation (2 lane) TCP
- B-3b Crane Installation (1 lane) TCP
- B-5 Service Installation on Bayers Road TCP
- B-6a Service Installation on Young TCP (1 of 2)
- B-6b Service Installation on Young TPC (2 of 2)

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Encroachment Signage Plan

Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale

Application Guide C22 for inbound side of Bayers Rd TC-54 for inbound side of Bayers Rd only. TC-103 added for increased information on outbound side.

TC-54 on both sides of site on Young St.
See Pedestrian Management Plan for sidewalk closure details.



Legend

Rigid Fencing with Opaque Hoarding

F-Type Barrier

Perimeter Fencing

Gate

See Pedestrian Management Plan for sidewalk closure details.
V Speed

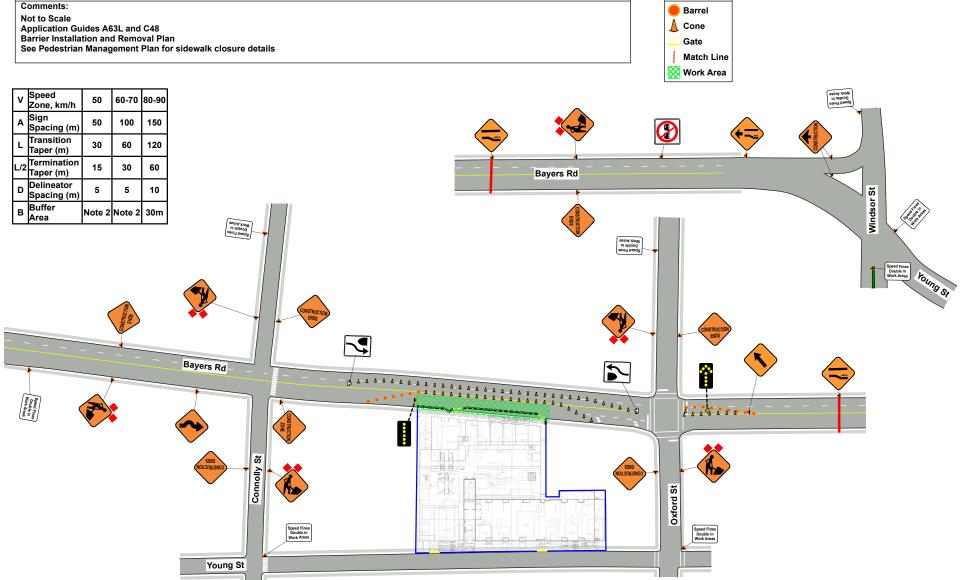
Appendix B-2 www.invarion.com

Legend



Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

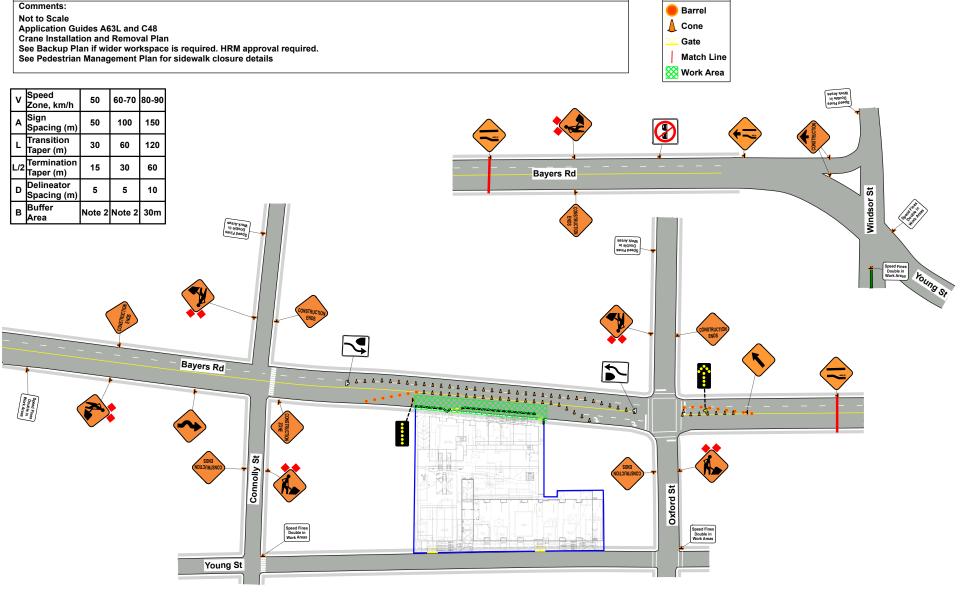


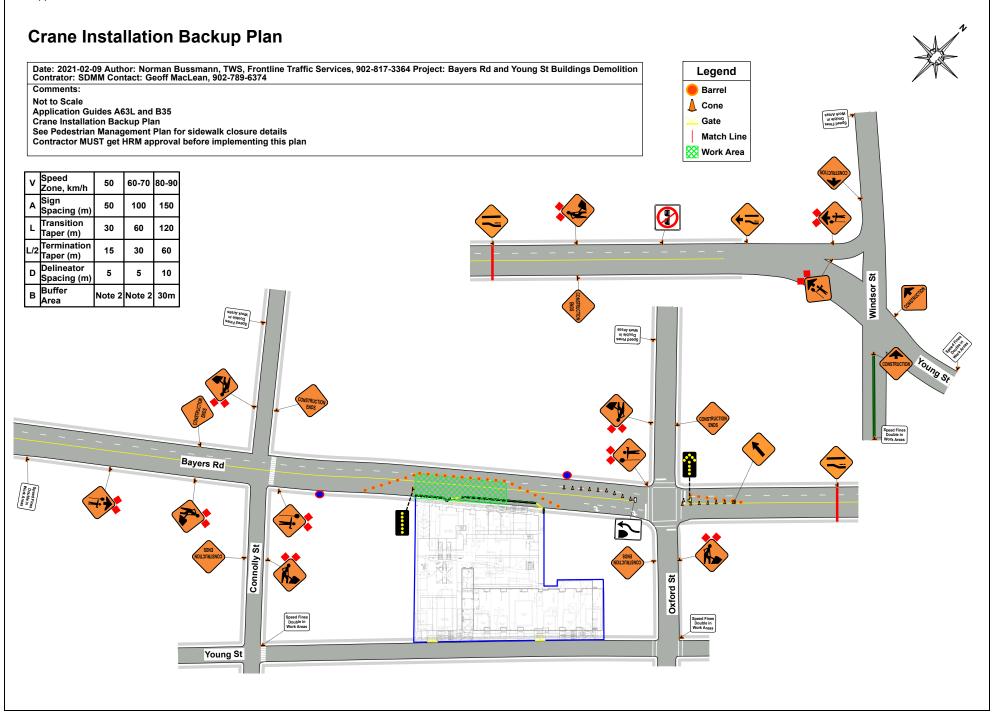
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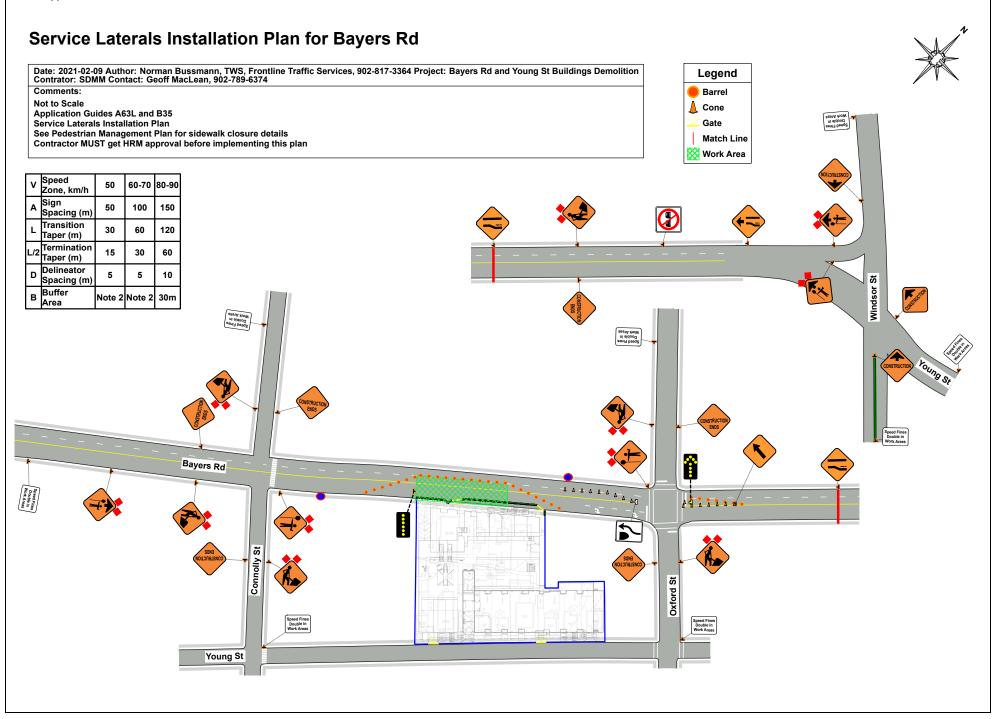


Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:







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Service Laterals Installation Plan for Young St

Page One

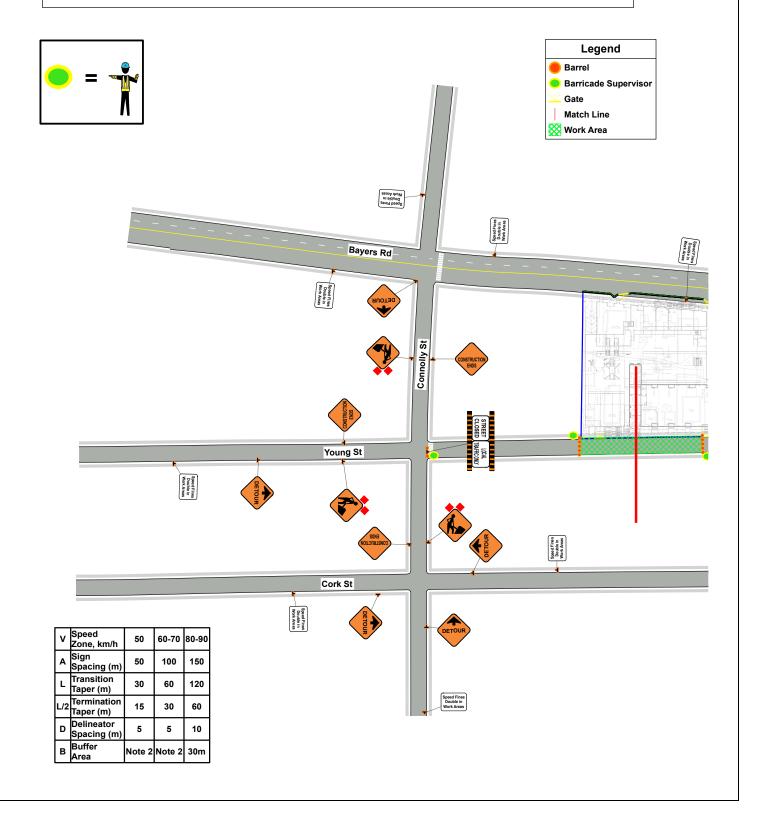


Date: 2021-02-09 Project: Bayers Rd and Young St Buildings Demolition Author: Norman Bussmann, Frontline Traffic Services, 902-817-3364 Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale

Application Guide C114
Street Closure Plan for Installation of Service Laterals
See Pedestrian Management Plan for sidewalk closure details



Service Laterals Installation Plan for Young St

Page Two

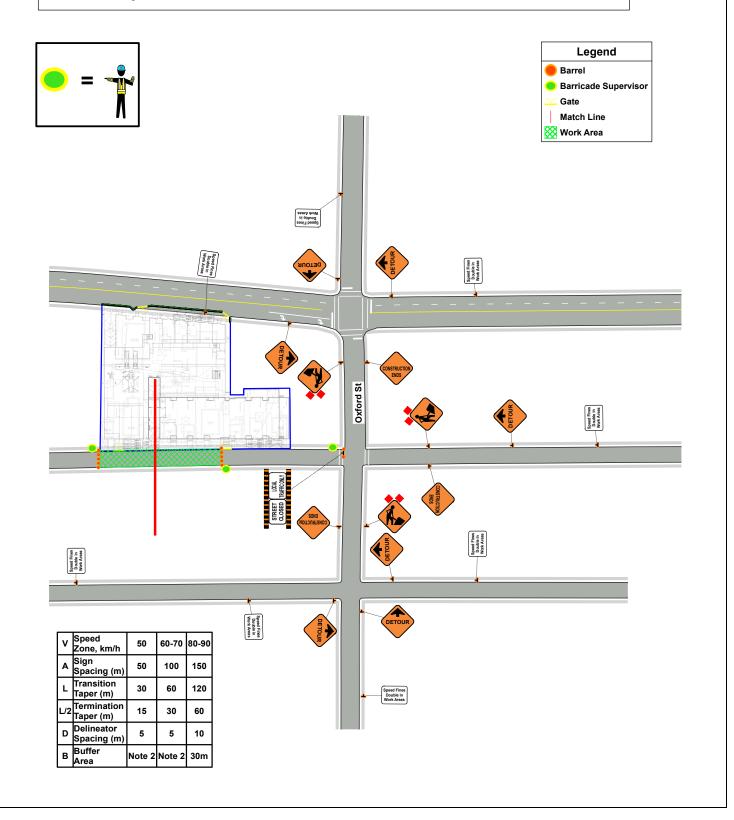


Date: 2021-02-09 Project: Bayers Rd and Young St Buildings Demolition Author: Norman Bussmann, Frontline Traffic Services, 902-817-3364 Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

Not to Scale

Application Guide C114
Street Closure Plan for Installation of Service Laterals
See Pedestrian Management Plan for sidewalk closure details





Appendix C – Haul Route Plan

- C-1a Haul Route Plan General (1 of 2) C-1b Haul Route Plan General (2 of 2)
- C-2a Haul Route Plan Concrete (1 of 2)
- C-2b Haul Route Plan Concrete (2 of 2)

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Haul Route Plan Page One



Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:

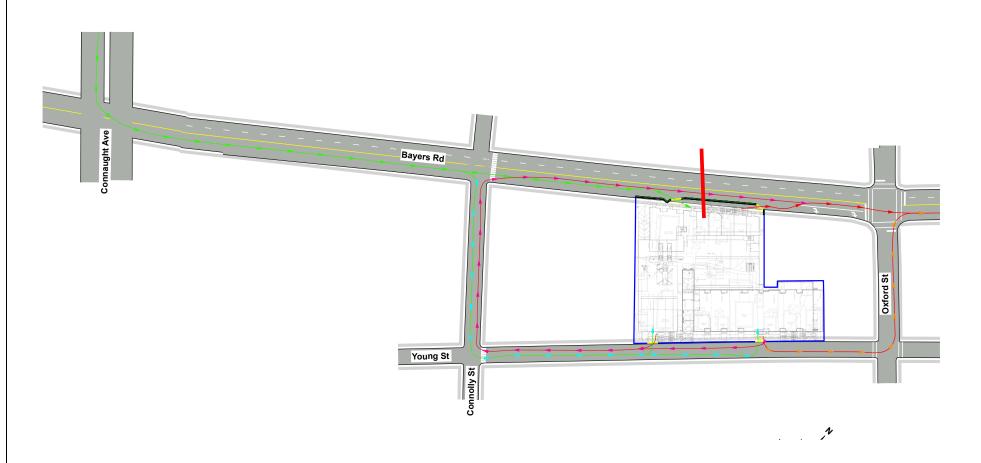
Not to Scale

Haul Route Plan

Reversing into site to be done under guidance of a dedicated spotter
Inbound Route 1 via Connaught Ave to Bayers Rd
Inbound Route 2 via Connolly St to Young St
Outbound Route 1 via Bayers Rd to Windsor St
Outbound Route 2 via Young St to Connolly St to Bayers Rd to Windsor St
Outbound Route 3 via Young St to Confort St to Bayers Rd to Windsor St

Legend

Gate
Inbound Route 1
Inbound Route 2
Match Line
Outbound Route 1
Outbound Route 2
Outbound Route 3



Haul Route Plan Page Two



Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374 Comments: Not to Scale

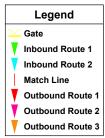
Haul Route Plan

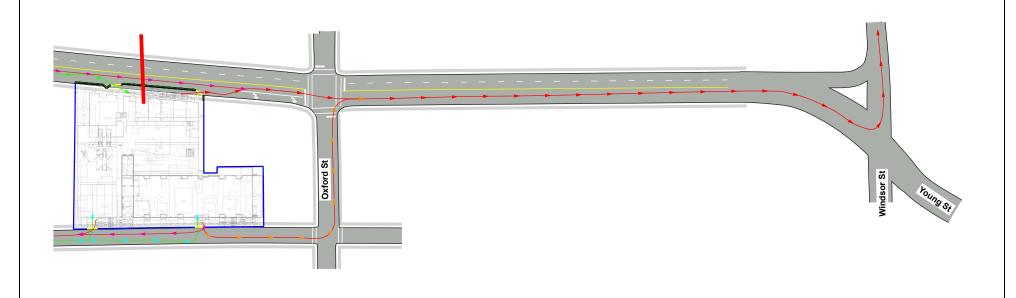
Reversing into site to be done under guidance of a dedicated spotter

Inbound Route 1 via Connaught Ave to Bayers Rd
Inbound Route 2 via Connolly St to Young St

Outbound Route 1 via Bayers Rd to Windsor St

Outbound Route 2 via Young St to Connolly St to Bayers Rd to Windsor St Outbound Route 3 via Young St to Oxford St to Bayers Rd to Windsor St





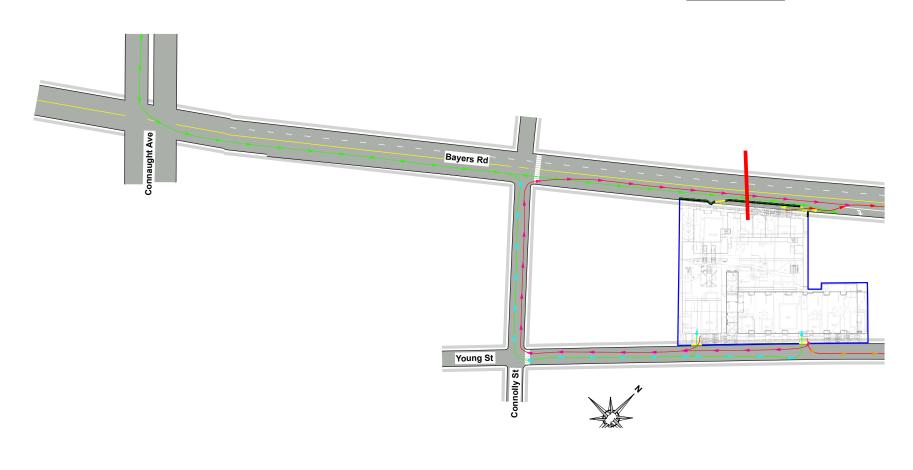
Concrete Delivery Plan Page One

Outbound Route 2 via Young St to Connolly St to Bayers Rd to Windsor St Outbound Route 3 via Young St to Oxford St to Bayers Rd to Windsor St

Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Comments:
Not to Scale
Concrete Delivery Plan
Reversing into site to be done under guidance of a dedicated spotter
Inbound Route 1 via Connaught Ave to Bayers Rd
Inbound Route 2 via Connolly St to Young St
Outbound Route 1 via Bayers Rd to Windsor St

Legend
Gate
Inbound Route 1
Inbound Route 2
Match Line
Outbound Route 1
Outbound Route 2
Outbound Route 3
Reversing Trucks



Concrete Delivery Plan Page Two

Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

Not to Scale

Concrete Delivery Plan

Reversing into site to be done under guidance of a dedicated spotter Inbound Route 1 via Connaught Ave to Bayers Rd Inbound Route 2 via Connolly St to Young St Outbound Route 1 via Bayers Rd to Windsor St Outbound Route 2 via Young St to Connolly St to Bayers Rd to Windsor St Outbound Route 3 via Young St to Oxford St to Bayers Rd to Windsor St

Legend

Gate

Inbound Route 1

Inbound Route 2

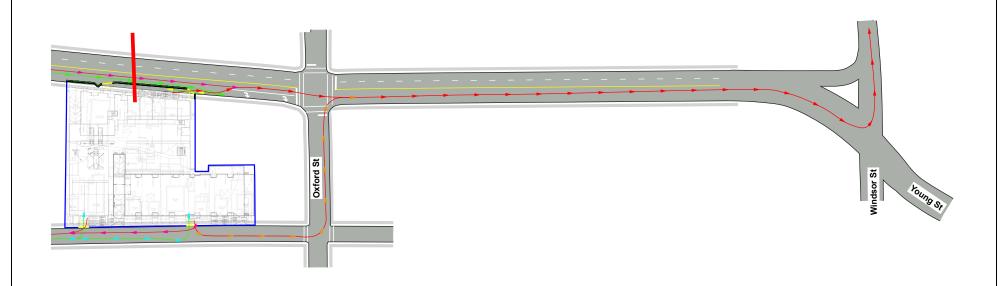
Match Line

Outbound Route 1

Outbound Route 2 Outbound Route 3

Reversing Trucks







Appendix D – Pedestrian Management Plan (PMP)

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Pedestrian Management Plan

Date: 2021-02-09 Author: Norman Bussmann, TWS, Frontline Traffic Services, 902-817-3364 Project: Bayers Rd and Young St Buildings Demolition Contrator: SDMM Contact: Geoff MacLean, 902-789-6374

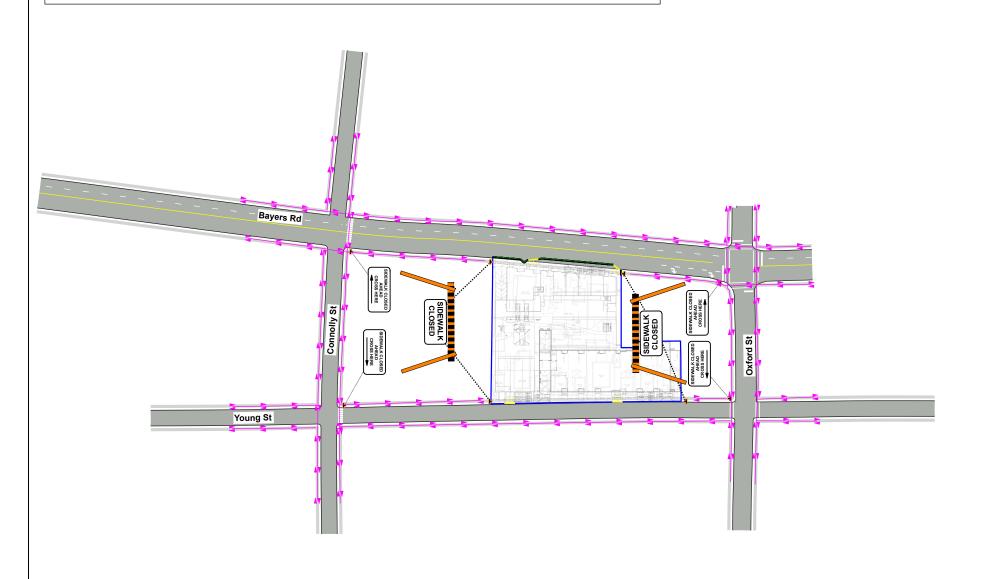
Comments:

Not to Scale

Pedestrian Management Plan
Long term closure of sidewalks on Bayers Rd and Young St

Legend Pedestrian Route

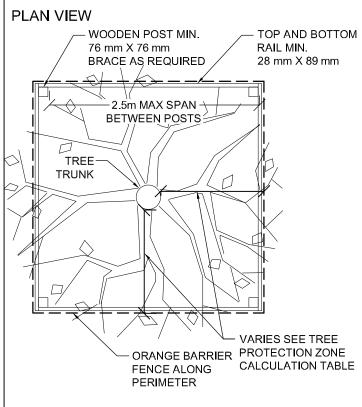






Appendix E – HRM Tree Detail

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PROFILE VIEW

TREE PROTEC	CTION ZONE CALCULATION TABLE
TRUNK	MINIMUM PROTECTION DISTANCE
DIAMETER	REQUIRED (MEASURE FROM THE
(DBH)	OUTSIDE EDGE OF TREE TRUNK)
10 CM & UNDER	1.2 METERS
11 - 30 CM	2.0 METERS
31 - 40 CM	3.4 METERS
41 - 50 CM	4.6 METERS
51 - 60 CM	6.0 METERS
61 - 70 CM	7.0 METERS
71 - 80 CM	8.0 METERS
>80 CM	9.0 METERS

NOTES:

- WOOD POST: (MIN. 76mm WIDTH) INSTALLED TO A DEPTH OF 500mm (UNDERGROUND LOCATES REQUIRED)
- 2. TOP AND BOTTOM RAIL: (MIN. 38 X 89mm CONSTRUCTION, MAX. SPAN 2.5m), CROSS BRACING AS REQUIRED.
- 3. HEIGHT OF THE FENCE: MIN.1.2 METERS
- 4. NO GROUND DISTURBANCE WITHIN 1.2 METER OF THE TREE TRUNK (I.E. POST INSTALLATION)
- POSTS SET BACK FROM SIDEWALK AND CURB: MIN 300mm
- FENCE MATERIAL: MINIMUM ORANGE BARRIER FENCE OR METAL CHAIN LINK FENCE
- ATTACH A SIGN ON TWO SIDES OF THE TREE "PROTECTION ZONE DO NOT REMOVE FENCE DURING CONSTRUCTION"

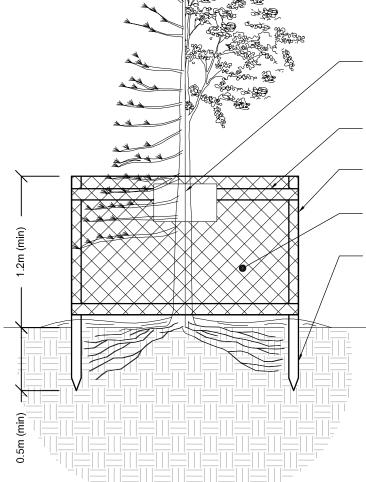
SIGN, ON TWO (2) SIDES, TO READ: TREE PROTECTION ZONE DO NOT REMOVE FENCE DURING CONSTRUCTION

TOP AND BOTTOM RAIL MIN. 28mm X 89mm

WOODEN POST MIN. 76mm X 76mm BRACE AS REQUIRED

ORANGE BARRIER FENCE ALONG PERIMETER

WOOD OR METAL POST BELOW GRADE. IF METAL IS SPECIFIED THE WOOD POST MUST BE BOLTED TO THE METAL POST



H\LIF\

STANDARD DETAIL

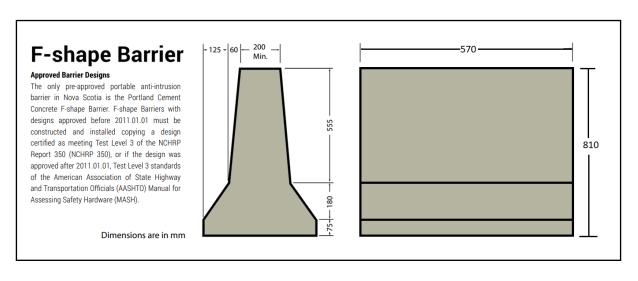
TREE PROTECTION ZONE & BARRIER

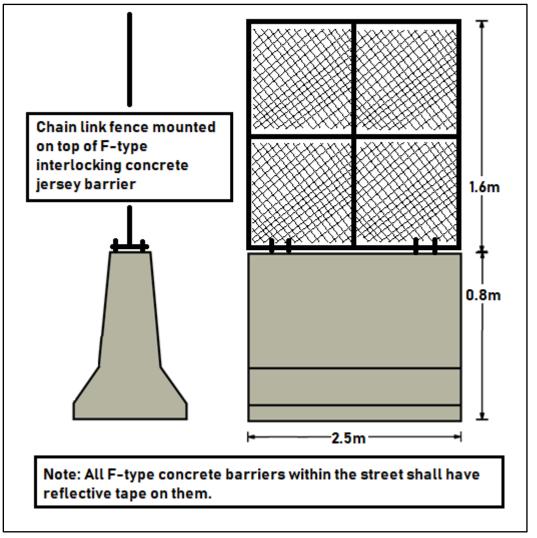
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SCALE:		FIG NO:
NTS		

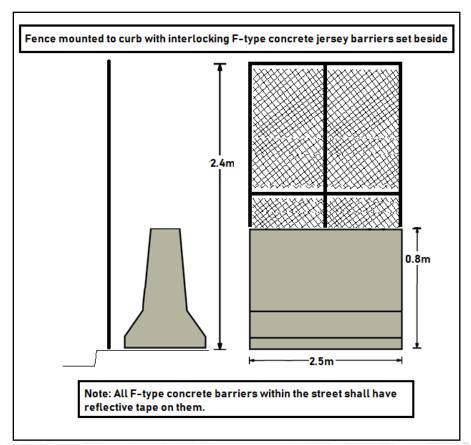


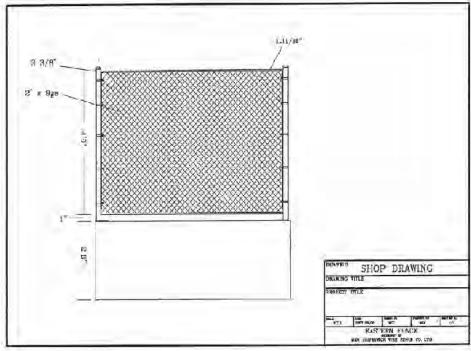
Appendix F – Barrier, Fence & Gates Information

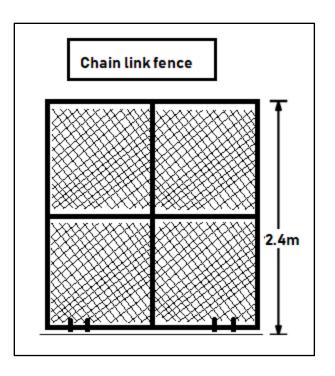
Page | F Job No. 34839

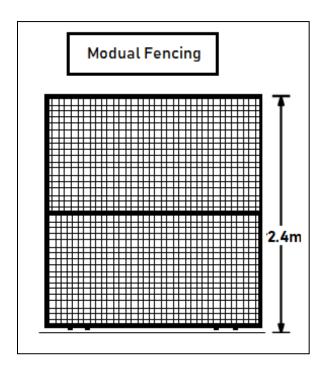


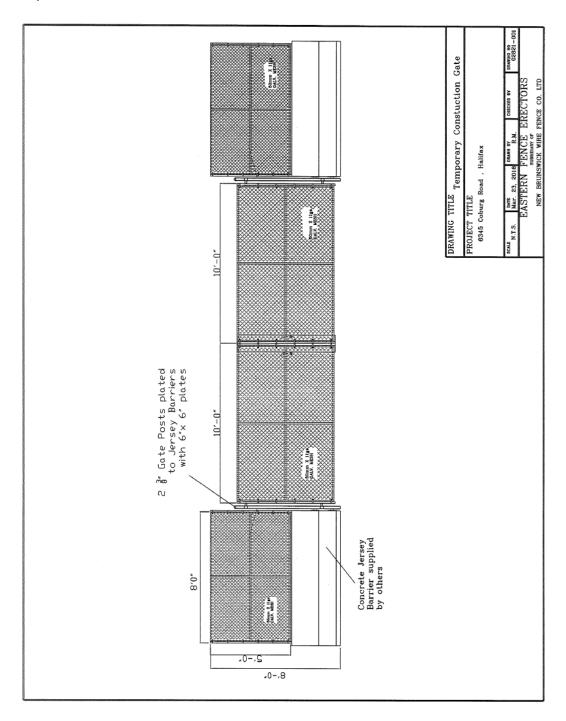














Appendix G – Hoarding Information

Page | G Job No. 34839

Opaque construction hoarding material shall covering and be adequately secured to the rigid fencing that outlines the encroachment area. This covering shall be continuous such that it prevents passersby or tourist from seeing through the fencing and gates to the active construction site.

UltraMesh® Eclipse® if a 7.96 oz. which is a polyester, black-backed mesh that is used where complete opacity is required.

UltraMesh Eclipse is UV printable for project renderings and is typically used for building and fence graphic wraps. The product is available in widths of 126" and 196".

Product example is shown below with the technical data sheet on the following page.

Tarp Option







Print Banner Option





Technical Data Sheet

UltraMesh® Eclipse®

UltraMesh Eclipse is a 7.96 oz. polyester, black-backed mesh. The material is ideal for applications where complete opacity is required. UltraMesh Eclipse is UV printable and may be used for building wraps and fence graphics. Available in widths of 126 and 196.

Material Details

CHARACTERISTICS	TEST METHOD	METRIC	ENGLISH	
Base Fabric	100% PES	1000D×1000D		
Construction		1	2×12	
Total Weight	DIN53352 BS3424 Method5A	270 +/- 20 gsm/m² 7.96 oz/yd²		
Width		Up to 500cm		
Tensile Strength	DIN53352 BS3424	Warp 1250 n/5cm Weft 1100 n/5cm	142.75 x 130.19 lb/in	
Tear Strength	DIN53356 BS3424	Warp 235 N Weft 225 N	52.8 x 50.5 lbf	
Air Permeability	GB/T 2410-2008	2649 mm/s		
Light Transmission	GB/T 5453-1997	37%		
Temperature Resistance	DIN53357 BS3425 Method 10	-20°	°C :70°C	

Applications

	Back-lit	Banner	Billboard	Block-out	Building Wrap	Fence Graphics	Truckside
Applications		•		•	•	•	

Ink Printability

Solvent	Eco Solvent	UV	Latex	Screen Printing	Dye Transfer	Dye Direct

Available Sizes

Metric (m)	English (inches)		
3.20, 5.00	126 , 196		

The information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. A legally binding guarantee of specific properties is not to be inferred from our specifications. They are given without guaranty and do not constitute a warranty. A weight variance of +1/-2 is acceptable. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification.)

ULTRAFLEX

www.ultrafleXX.com updated: 12/2016

Ultrafiex Systems Inc. Headquarters 203 Kelsey Lane, Suite E Tampa, FL 33619 P: (973)627-8608 Ernall: sales@Ultraflexx.com Ultraffex Systems Inc. 1578 Sussex Tumpike, Bidg. 4 Randolph, NJ 07859 P: (973)627-8608 F: (973)627-8506 Email: sales@ultraffex.com

Ultraflex Europs Unit 1 Hardwick Road Industrial Park Great Granden Bedlordahire England 5G 19 3BJ Phore: (44)1767-677-100 Email: sales@ultraflessurops.com Ultraffex México Azafrán No. 112, Col. Granjas México Del Izlancio, C.P. 08400, México D.F. Tel: (20)31823632,3182 3608 01 800 822 52 31 Ernalt sales molgultraffexx.com

Ultrafiex Guadalajara Av. Patria No. 2804 Loma Bonita Sur. Zapopan, Jalisco CP45086 Mexico Tel: (55)3312-049-857



Appendix H – Project Information Board

Page | H Job No. 34839



PROPOSED MULTI - UNIT RESIDENTIAL BUILDINGS

BAYERS & YOUNG

71 & 43 UNIT RESIDENTIAL BUILDINGS & 3 TOWNHOUSES WITH 2 LEVELS OF U/G PARKING

April 2021 – April 2023

Owner:

City Centre Property Management 50 Bedford Highway, Suite 300, Halifax, NS

24 Hour Contact:

Boston Ghosn - (902) 880-1877

Site Contractor:

Atlantic Road Construction and Paving 6 Belmont Avenue, Eastern Passage, NS, B3G 1M7

Contact:

Greg MacDonald - (902) 830-6411

Traffic Control:

Frontline Traffic Services 6 Belmont Avenue, Eastern Passage, NS, B3G 1M7

Contact:

Phil Pruneau - (902) 818-5548

Rodent Control Company:

Riteway Pest Control

2489 St. Margaret's Bay Road, Timberlea, NS

Contact:

Gary Sampson – 902- 440-0592



Appendix I – Project Safety Signage

Page | I Job No. 34839

NO TRESPASSING

CONSTRUCTION SITE To reduce risk of injury, • Hard Hat • Safety Shoes MUST be worn on this site.

RESTRICTED --- AREA ----

CONSTRUCTION WORK IN PROGRESS



Appendix J – Project Signage Specifications

Page | J Job No. 34839

Signage Specifications: Project Signage shall;

- Be constructed of weatherproof material (corrugated plastic)
- Have high visibility contrasting colours (dark letters on white background)
- Incorporate appropriate font types (mix of upper and lower-case lettering)
- Incorporate appropriate font sizes (16mm 51mm) such that the signage is readable from a distance (16-20m)
- Size of signage will be poster size (600mm x 900mm) or larger; to allow community members to see and read the information from a distance
- Signage may incorporate plastic grommets positioned every 300mm around the perimeter of the signage to ensure a secure signage installation
- Signage will be installed/anchored to project fencing using plastic zip-ties
- Signage will be positioned along the project site as per the encroachment plan
- Signage shall not impede traffic of pedestrian sight lines
- Signage shall be placed on site 10days prior to the start of the noted construction activity to
 ensure the passing public has had adequate time to review, adjust their travel patterns, usage
 of streets and or can be considered 'informed'.

Samples







Appendix K – Sample Traffic Notification Letter

Page | K Job No. 34839



PROPOSED MULTI-UNIT RESIDENTIAL BUILDINGS

DRAFT NOTIFICATION LETTER

TO WHOM IT MAY CONCERN

Date

NOTIFICATION OF TRAFFIC DISRUPTION: STREET NAME, HALIFAX, NOVA SCOTIA

This is to inform you that the to facilitate operations in association with the Multi-Unit Residential Building construction work, traffic disruptions will occur on or about **DATE** with an anticipated duration of approximately **TIME**. The street will be **reduced(?)** to one lane of vehicular traffic during this time.

Should you have any questions or concerns please feel free to contact the below:

CONTACT INFORMATION

Site Contractor:

Atlantic Road and Construction Paving (ARCP)

6 Belmont Avenue
Eastern Passage, NS

B3G 1M7

Phone: (902) 830-6411

Should any questions arise, please feel free to contact the undersigned.

Yours Truly,

Greg MacDonald



Appendix L – Vehicular and Pedestrian Hazard Assessment

Page | L Job No. 34839

Project Date: Location: VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT

	VEHICULAR & PEDESTRIAN HAZARD ASSESSMENT									
No.	Hazard:	Project Phase:	Vehicular Impacts:	Mitigation Methods:	Pedestrian Impacts:	Mitigation Methods:				
			Vehicles may enter project site and fall down excavation.	Place concrete barriers along travel ways. Concrete barriers and existing curbs to prevent vehicle entry.						
1	Excavation	Excavation	Vehicle weight may surcharge excavation, causing excavation wall failure.	Close sidewalks & driveways adjacent to project site, moving vehicles farther away from excavation.	Pedestrians may enter project site and fall down excavation.	Place concrete barriers/rigid fencing around entire project site.				
2	Rock Blasting	Excavation	Blasted rock projectiles may strike vehicles.	Close sidewalks & driveways adjacent to site, moving vehicles farther away from blasted rock.	Blasted rock projectiles may strike pedestrians.	Install solid plywood hoarding along rigid fence adjacent to blasting zone.				
3	Construction Waste	All Phases	Vehicles may be struck by construction waste.	The contractor shall keep the project site and surrounding areas clean and free of construction debris.	Pedestrians may be struck by construction waste.	The contractor shall keep the project site and surrounding areas clean and free of construction debris.				
4	Vehicular & Pedestrian Activities	All Phases	Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage.	Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions.	Drivers and pedestrians may become confused or impatient with construction activities. Pedestrians may walk in unmarked crosswalks or in vehicular travel areas. Drivers may fail to obey traffic signage.	Vehicular and pedestrian signage will be posted prominently around the project site to facilitate pedestrian movement. Notification will be sent prior to all traffic interruptions.				
5	Heavy Machinery Operation	All Phases	Heavy machinery or vehicles may break down or overturn, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site.Concrete barriers will be installed to separate construction vehicles from public traffic.	Heavy machinery or vehicles may break down or overturn, injuring pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery. Rigid fences will be installed to separate construction vehicles from pedestrians.				
	reavy waterinery operation		Heavy machinery or vehicles may overturn due to uneven terrain, damaging other vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site and ensure travel routes are kept flat.	Heavy machinery or vehicles may overturn due to uneven terrain, injuring pedestrians. Pedestrians may walk on uneven terrain causing them to twist their ankles or fall.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery and ensure travel routes are kept flat.				
6	Construction Signage	All Phases	Construction signage may strike vehicular traffic.	Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.	Pedestrians may walk into construction signage, including traffic signage, wayfinding signs, etc. may.	Signage will be angled in line with pedestrian routes and/or be placed at heights such that they do not pose a risk to pedestrians.				
				ar province and a constant of the constant of	Construction signage may strike pedestrians.	Construction signage will be securely fixed to existing poles, temporary concrete sign bases, or rigid fences.				
7	Dangerous Materials	All Phases	Flammable, explosive, & hot materials may damage vehicles if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.	Flammable, explosive, & hot materials may injure pedestrians if not properly maintained & stored.	The contractor will use and store dangerous materials properly as per manufacturers' specifications.				
8	8 Hoisting Operations Superstruct		Precast concrete panels and other items hoisted may fall from heights and damage vehicles.		Precast concrete panels and other items hoisted may fall from heights and injure pedestrians.	Proper hoisting and lifting techniques will be used to ensure that materials do not fall from heights. Pedestrians will be moved to opposite sides of street from the project site or onto temporary sidewalks such that loads are never suspended above the public realm.				
9	Reinstatement of Public Infrastructure & Service Installation	Superstructure	Heavy equipment and hot concrete used during public infrastructure reinstatement and service installation may cause damage to vehicles.	The contractor shall maintain safe distances between vehicles and heavy machinery on-site. Concrete barriers will be installed to separate construction vehicles from public traffic during public infrastructure reinstatement and service installation.	Heavy equipment and hot concrete used during public infrastructure reinstatement may injure pedestrians.	The contractor shall maintain safe distances between pedestrians, vehicles, and heavy machinery.				
10	Fallen debris	Superstructure	Debris may fall from upper stories of the new building causing damage to vehicles.	F-Type concrete barriers will be installed such that a safe distance is maintained between the building envelope and vehicular traffic.	Debris may fall from upper stories of the new building injuring pedestrians.	Construction of upper building levels will be set back from the property line/rigid fencing, this separating pedestrians from potential fallen debris.				

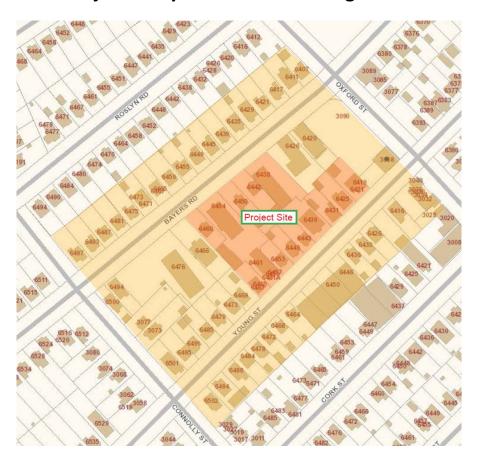


Appendix M – Community Consultation Records

Page | M Job No. 34839

COMMUNITY CONSULTATION MAP OVERVIEW

Project – Bayers Road and Young Street



Notification Letter

Date: ******

City Centre Property Management – Building Construction Information Meeting

Dear Neighbour,

As you may be aware, we are planning an apartment building and Townhouse block construction project between Oxford and Connolly Streets at 6438-6460 Bayers road and 6419-6467 Young Street.

If you are interested in receiving more information about our construction plans, practices, schedule and to go over any questions you may have regarding construction of our new project please contact us to discuss. We would be happy to meet with you to discuss.

Thank you.

Boston Ghosn

Cell: 902-880-1877

Email: bostonghosn@hotmail.com



February 3, 2021

Doctor Piano Real Estate 6426 Bayers Road Halifax NS

Re: Moving Power Pole

Dear Mr. Trenholme:

As per our meeting today's date and your previous discussion with our Site Administrator, Laura, Burke, please sign and date below authorizing the moving of the power pole outside your property at 6426 Bayers Road adjacent to our shared driveway to a location lower on Bayers Road to accommodate our construction project in front of our property. This move is entirely at the cost of Bayers and Young Developments Ltd.

Thank you for your assistance in this matter.

Regards,

Original Signed

Per:

Anthony Zaden
Project Manager

Agreed and signed this ______ day of February 2021

On behalf of Doctor Piano Real Estate

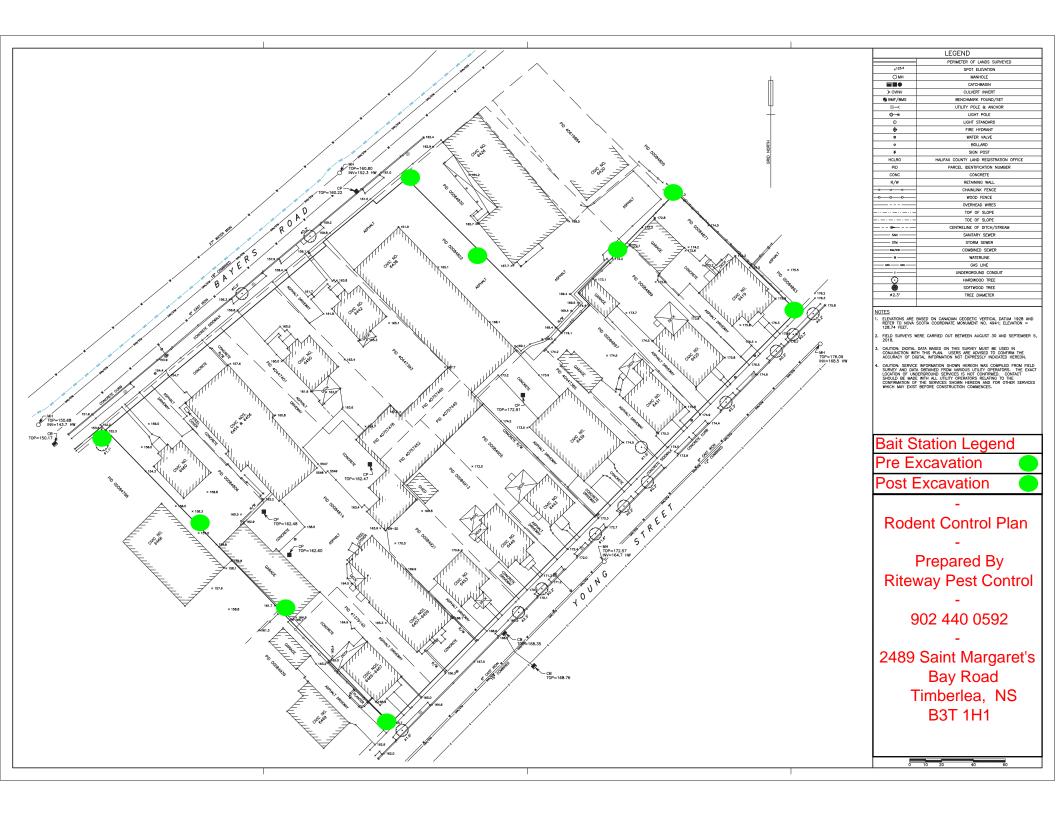
Original Signed

Gary Trenholme Owner



Appendix N – Rodent Control Plan

Page | N Job No. 34839





THE MOST ADVANCED LOW-PROFILE BAIT STATION







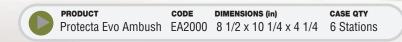
PRODUCT FEATURES:

- ▶ Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ▶ Locking bait rods won't fall out during cleaning
- Dog & child tamper-resistant
- Can hold:

4 - 1 oz. bait BLOX on 4 vertical rods

T-Rex[™] rat trap or Mini-Rex[™] mouse trap

▶ Compatible with Sidekick® Load-N-Lock™ system





More Than Meets The Eye

Madison, Wisconsin 53704 USA | Ph: (608) 241-0202 | Fax: (608) 241-9631

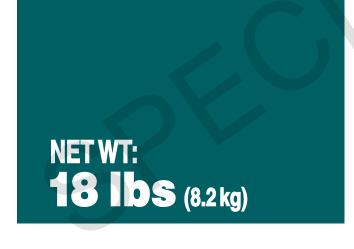
www.belllabs.com

BLOX TM









KILLS RATS, MICE & MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

KEEP OUT OF REACH OF CHILDREN CAUTION

See back panels for First Aid and additional precautionary statements.

ACTIVE INGREDIENT:

 Bromadiolone (CAS #28772-56-7):
 0.005%

 OTHER INGREDIENTS†:
 99.995%

 †Contains Denatonium Benzoate
 TOTAL
 100.000%

*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat.

FIRST AID

HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

IF SWALLOWED:

- Call a poison control center, doctor, or 1-877-854-2494, or 1-800-858-7378** immediately for treatment advice.
- . Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

IF ON SKIN OR CLOTHING:

- . Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

587CB-9

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- · Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- · Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice.
- ** Also call this number for information on health concerns and pesticide incidents.

NOTE TO PHYSICIAN

If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K₁ intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

TREATMENT FOR PET POISONING

If animal eats bait, call veterinarian at once.

NOTE TO VETERINARIAN

Anticoagulant Bromadiolone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READTHIS LABEL: Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

IMPORTANT: Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

- 1. Store unused product out of reach of children and pets.
- 2. Apply bait in locations out of reach of children, pels, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bit stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hoofed livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
- 3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.

USE RESTRICTIONS: This product may only be used to control the following rodent pests in and around man-made structures: House mouse (Mus musculus), Norway rat (Rattus norvegicus), Roof rat (Rattus rattus), Cotton mouse (Peromyscus gossypinus), Cotton rat" (Sigmodon hispidus), Deer mouse (Penithodontomys humuli), Gotden mouse* (Dehrotomys nuttalli), Peromyscus maniculatus), Eastern harvest mouse* (Reithrodontomys humuli), Gotden mouse* (Dehrotomys nuttalli), Peromyscus in att. (Rattus exutans), Meadow vole* (Microtus pennsylvanicus), White-footed mouse (Peromyscus leucopus), White-throated woodrat* (Neotoma albigula), Southern plains woodrat* (Neotoma micropus), and Mexican woodrat* (Neotoma mexicana). This product must be used in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting ordent intestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, trashport vehicles (ships, trains, aircraft), docks and port or terminal buildings and related structures around and associated with these sites. Fence and perimeter baiting, beyond 100 feet from a structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.



KILLS RATS, MICE, AND MEADOW VOLES*

Kills Warfarin Resistant Norway Rats

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with first dead rodents appearing four or five days after feeding begins.

ACTIVE INGREDIENT:

 Bromadiolone (CAS #28772-56-7):
 .0.005%

 OTHER INGREDIENTS†:
 .99.995%

 †Contains Denatonium Benzoate
 TOTAL
 100.000%

CAUTION

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wasfes resulting from the use of this product may be placed in trash or delivered to ar approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed.

WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

NET WEIGHT: 18 lbs (8.2 kg)

EPA REG. NO. 12455-79 EPA EST. NO. 12455-WI-1

Manufactured by:

BEET

LABORATORIES, INC.
3699 Kinsman B.v.
Madison, WI 53704 U.S.A.
www.bellabs.com

DIRECTIONS FOR USE (Continued from other panel)

Burrow baiting with Contrac All-Weather Blox is prohibited.

Do not place near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations. Do not broadcast bait. Do not use this product in sewers.

Do not sell this product in individual containers holding less than 16 pounds of bait.

SELECTION OF TREATMENT AREAS: Determine areas where rats, mice, or meadow voles* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rats, mice, or meadow voles*, or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

APPLICATION DIRECTIONS:

RATS: Place 3 to 16 bait blocks (at intervals of 15 to 30 feet) per placement in infested areas. Maintain an uninterrupted supply of fresh bait for at least 10 days or until signs of rat activity cease.

MICE AND MEADOW VOLES*: Place 1 block per placement. Space placements at 8- to 12-foot intervals in infested areas. Two blocks may be needed at points of very high activity. Maintain

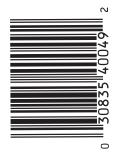
an uninterrupted supply of fresh bait for at least 15 days or until signs of mouse or meadow vole* activity cease.

FOLLOW-UP: Replace contaminated or spoiled bait immediately. Wearing gloves, collect and dispose of all dead, exposed animals and leftover bait. To prevent reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. Where a continuous source of infestation is present, establish permanent bait stations and replenish as needed.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing

All handlers (including applicators) must wear: shoes plus socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear gloves.



User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat.

MADE IN USA Product Code: CB4051 090415/09-15



DETEX®BLOX with LUMITRACK

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA

Hazard Communication Standard 29 CFR 1910.1200 January 2016

DATE OF ISSUE:

PREPARED BY:

CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DETEX® BLOX with LUMITRACK

EPA Registration Number: NA

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Activity Monitoring - Ready to use Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc. 3699 Kinsman Blvd. Madison, WI 53704, USA Email: sds@belllabs.com Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636 Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

Signal Word: None

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Inert and Non-Hazardous Ingredients	Proprietary	100.00%
(Unlisted components are non-hazardous)		

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Non-Toxic **Inhalation:** Not applicable. Eve contact: Non-Toxic Skin contact: Non-Toxic

Most important symptoms and effects, both acute and delayed

Non-Toxic

Advice to physician: Non-Toxic Advice to Veterinarian: Non-Toxic

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases,

which may include carbon monoxide.

Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: None. Non-Toxic

Environmental precautions: None. Non-Toxic

Methods and materials for containment and cleaning up

For Containment: None. Non-Toxic For Cleaning Up: None. Non-Toxic

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and

disposal considerations.

Trade Name: Detex Blox with Lumitrack Date Created: January 2016 Supplier: Bell Laboratories, Inc.

Page 1 of 3

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not use near heat sources, open flame, or hot surfaces. Non-Toxic.

Conditions for safe storage, including any incompatibilities: None. Non-Toxic

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits	
None	Not Established	Not Established	Not Established	

Appropriate Engineering Controls: None. Non-Toxic Occupational exposure limits: None. Non-Toxic

Personal Protective Equipment: Respiratory protection: Not required **Eve protection:** Not required

Skin protection: None. Non-Toxic

Hygiene recommendations: None. Non-Toxic

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Tan wax block Appearance/Color: Odor: Sweet grain-like

Odor Threshold: Not applicable, odor not associated with a hazardous material.

Not applicable, is not dispersible with water. pH:

Melting point: Not applicable Not applicable **Boiling point:**

Flash point: Not applicable, does not contain components classified as flammable.

Evaporation rate: Not applicable, is a solid. Flammability: Not applicable, is a solid.

Upper/lower flammability or explosive limits: Not applicable, does not contain components classified as flammable or explosive.

Vapor Pressure: Not applicable

Vapor Density: Not applicable, is a solid 1.13 g/mL @ 20°C **Relative Density:** Solubility (water): Not water soluble **Solubility (solvents):** Not applicable Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable, does not contain components classified as flammable.

Decomposition temperature: Not applicable

Viscosity: Not applicable, is not a liquid.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not Applicable

Chemical stability: Not Applicable

Possibility of hazardous reactions: Refer to Hazardous decomposition products **Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

Incompatible materials: Not Applicable

Hazardous decomposition products: Not Applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): Not Toxic LD50, dermal (skin contact): Not Toxic

LC50, inhalation: Not Toxic Skin corrosion/irritation: Not Toxic Serious eye damage/Irritation: Not Toxic. Respiratory or skin sensitization: Not Toxic

Germ cell mutagenicity: Not Toxic

Carcinogenicity: Not Toxic

Trade Name: Detex Blox with Lumitrack Date Created: January 2016 Supplier: Bell Laboratories, Inc.

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Components	NTP	IARC	OSHA
None	NA	NA	NA

Reproductive Toxicity: Not Toxic Aspiration Hazard: Not Toxic Target Organ Effects: Not Toxic

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Not Toxic

Persistence and degradability: Not Toxic **Bioaccumulative potential:** Not Toxic

Mobility in Soil: Not Toxic. Other adverse effects: None.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: Wastes resulting from the use of this product may be placed in trash, on-site, or at an approved waste disposal facility. Dispose of all wastes in accordance with all Federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated

UN proper shipping name: Not regulated **Transport hazard class(es):** Not regulated

Packing group: Not regulated Environmental Hazards

DOT Road/Rail: Not considered hazardous for transportation via road/rail. **DOT Maritime:** Not considered hazardous for transportation by vessel.

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not applicable

Signal Word: None

Precautionary Statements: None

Potential Health Effects:

Eye Contact: May cause irritation **Skin Contact:** Non-irritating to the skin **Ingestion:** Not harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not Toxic CERCLA/SARA 302: Not Toxic

SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 0 (Not Toxic)	Flammability: 1 (slight)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 0 (Not Toxic)	Flammability: 1 (slight)	Reactivity: 0 (minimal)	Protective Equipment: None

Disclaimer: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

Trade Name: Detex Blox with Lumitrack
Supplier: Bell Laboratories, Inc.

Date Created: January 2016
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Appendix O – CMP's TCP & PMP Inspection Records

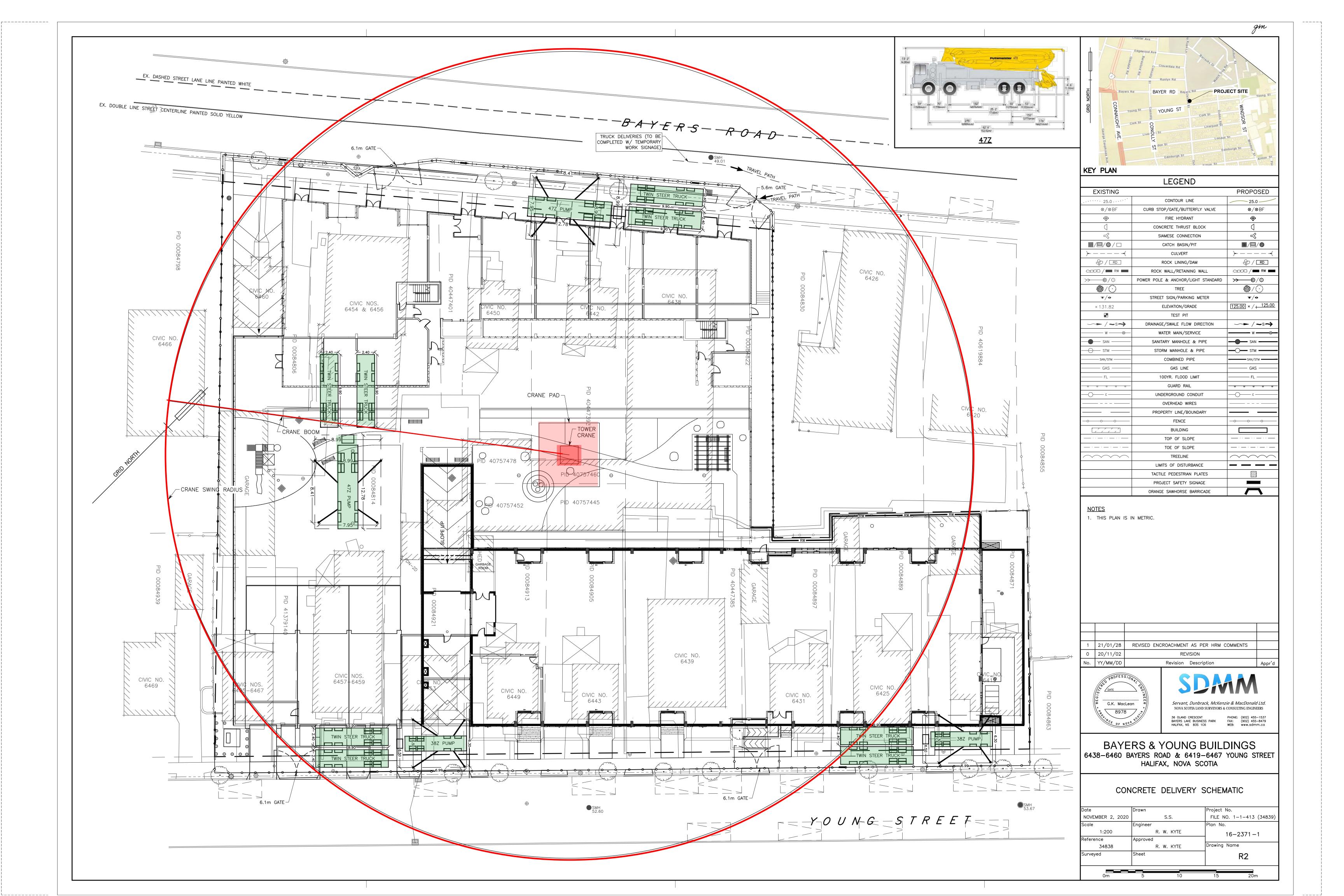
Page | O Job No. 34839

Project:		Locati	on:			Phase:	Date:	Inspector:
		C	ONSTE	RUCTIO	N MAN	AGEMENT PLAN - INSPECT		
CMP Element	Set-u	ıp per	PMP?	Cond	ition?	Action Required	Action Completed	Comments
CIVIP LIEITIETT	Yes	No	N/A	Good	Bad	Action Required	Action Completed	Comments
	_							
	_							
	-							
							.	



Appendix P – Concrete Delivery Schematic

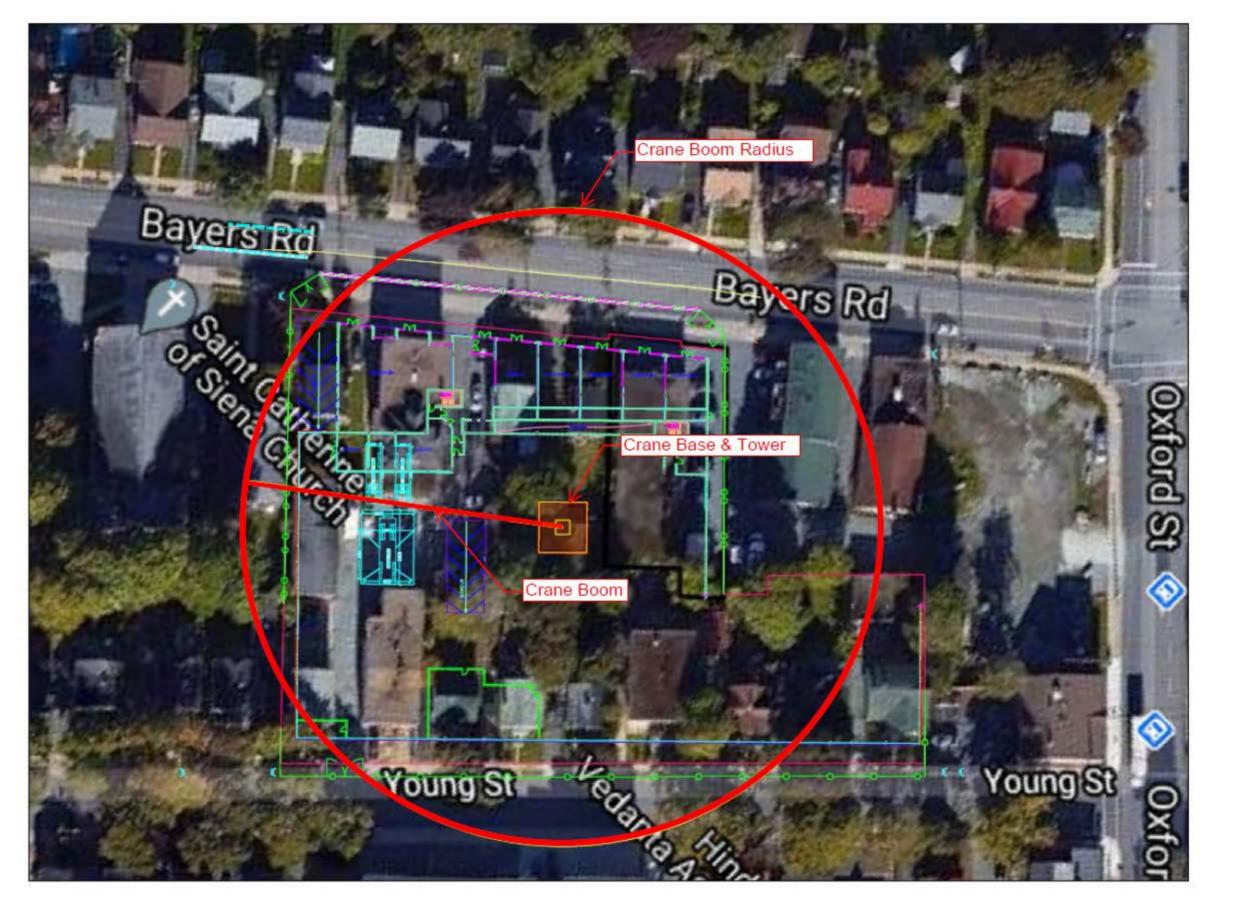
Page | P Job No. 34839

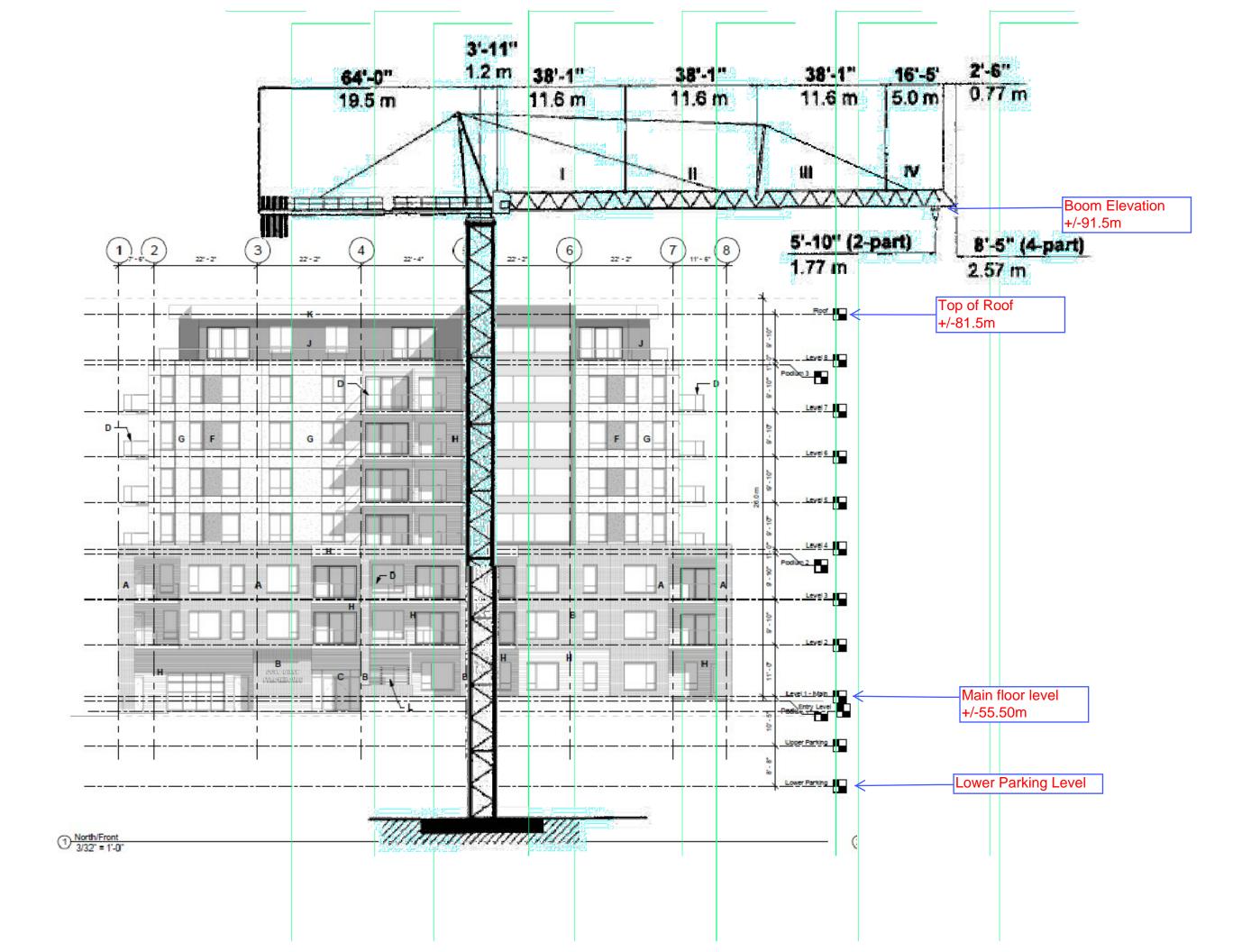




Appendix Q – Crane Information

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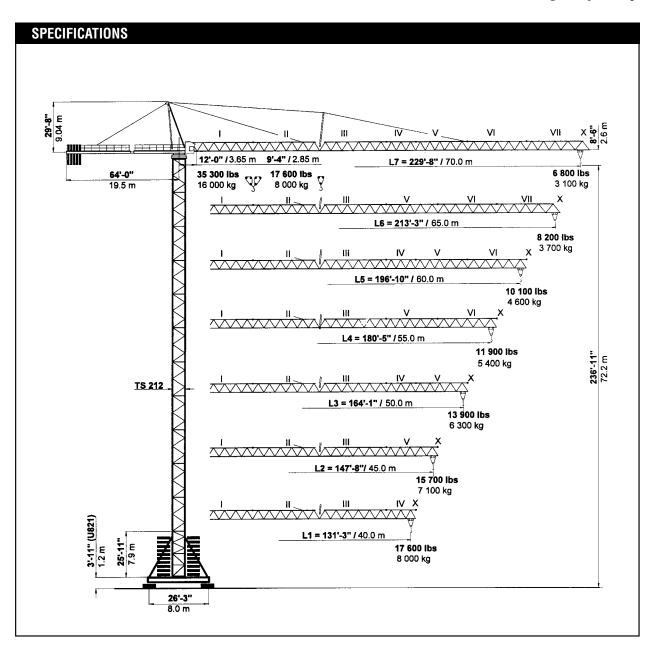


Tel: 1 (888) 337-BIGGE or (510) 638-8100 Web: www.biggetowercrane.com



PEINER SK 315

Hammerhead Tower Crane 17,600-35,300 lbs. (8-16 mt) **Lifting Capacity**



simple, available and cost effective™

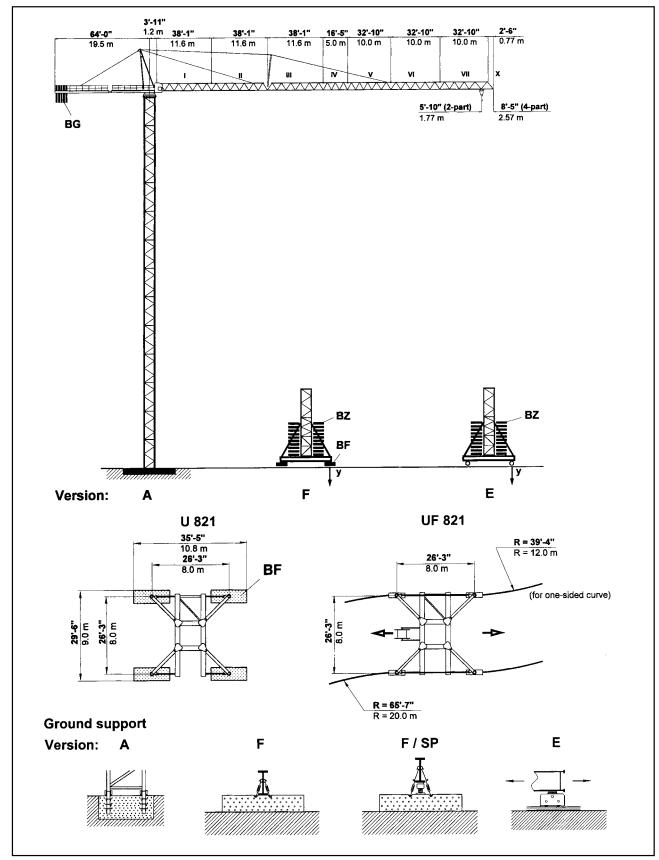
Machines shown may have optional equipment.



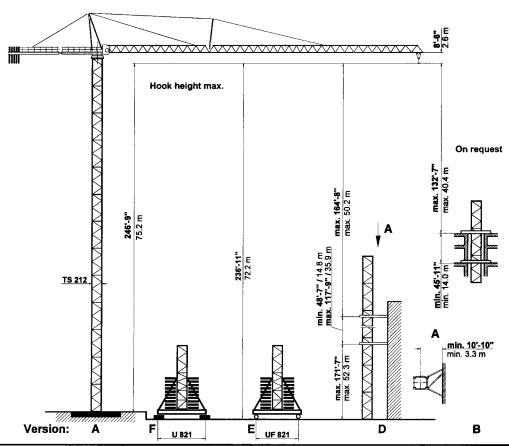
BİGGE



PEINER SK 315 Combinations of tower section, hook heights, forces acting per corner, base ballast



PEINER SK 315 Tower TS 211



TS 212	Version A	·			Versio	n F	·	Version E				
Tower	нн	Tower	НН	BZ + BF	in serv	ice l	out of	BZ	in service	out of		
TS 212.1	ft	TSV 212	ft	'-	""		service		50. 1.00	service		
	m	TS 212.1	m	kips/t	kips / l	kN	kips / kN	kips / t	kips / kN	kips / kN		
13 x TS 212.1	246'-9"* 75.2*				-					<u> </u>		
12 x TS 212.1	227'-4"* 69.3*	1 x TSV 212 11 x TS 212.1	236'-11 "* 72.2*	212.0 96	204 909		279 1243	198.0 90	212 942	282 1253		
11 x TS 212.1	208'-0"* 63.4*	1 x TSV 212 10 x TS 212.1	217'-6 "* 66.3*	168.0 76	186 826		240 1066	154.0 70	192 856	242 1075		
10 x TS 212.1	188'-8"* 57.5*	1 x TSV 212 9 x TS 212.1	198'-2" 60.4	146.0 66	173 770		203 901	132.0 60	179 797	204 909		
9 x TS 212.1	169'4" 51.6	1 x TSV 212 8 x TS 212.1	178'-10" 54.5	124.0 56	161 715		169 751	88.0 40	161 715	169 754		
8 x TS 212.1	149'-11" 45.7	1 x TSV 212 7 x TS 212.1	159'-5" 48.6	101.0 46	149 661		145 645	88.0 40	1 54 683	170 654		
7 x TS 212.1	130'-7" 39.8	1 x TSV 212 6 x TS 212.1	140'-1" 42.7	101.0 46	142 633		128 569	66.0 30	141 629	124 553		
6 x TS 212.1	111'-3" 33.9	1 x TSV 212 5 x TS 212.1	120'-9" 36.8	101.0 46	136 607		112 499	66.0 30	135 600	108 482		
5 x TS 212.1	91'-10" 28.0	1 x TSV 212 4 x TS 212.1	101'-5" 30.9	101.0 46	131 582		98 435	66.0 30	129 573	94 418		
4 x TS 212.1	72'-6" 22.1	1 x TSV 212 3 x TS 212.1	82'-0" 25.0	101.0 46	126 559		85 376	66.0 30	123 548	81 359		
3 x TS 212.1	53'-2" 16.2	1 x TSV 212 2 x TS 212.1	62'-8" 19.1	101.0 46	120 536		80 356	66.0 30	118 523	75 335		
2 x TS 212.1	33'-9" 10.3	1 x TSV 212 1 x TS 212.1	43'-4" 13.2	101.0 46	116 515		80 356	66.0 30	112 500	75 335		
Foundation					Stationary	_			Travelling bas			
25'-7" x 25'-7" x 5'-7" 7.8 x 7.8x 1.7 m				U 821				UF 821				
Anchor stools				BF	Τ.		BZ	Bogie				
4 x FF 212				4 x 8.82 l 4 x 4.0			11.02 kips ock 5.0 t	Curve F 500				

If TSK 212 section is used the hook height is increased by 6'-7" (2 m).

* Lower climbing section after erection.

TS 212.1 = 19'-4 1/4" / 5.9 m

TSV 212 = 2

TSV 212 = 25'-11" / 7.9 m

TSK 212 = 6'-7" / 2.0 m

PEINER SK 315 Radius and Capacity

Г			<u> </u>																
	Jib	Max.		ius – fi acity –		.+													
	JID	capacity	Cap	acity –	105./11	ıı	2-Pa	rt Line	17 n	nax. 1	17,60	0 lbs							
		max.							•	nax. 8									
	# E	17,600 lbs	iφ	÷	iç.	우	က	5	φ	ဖု	÷	-11"	Ļρ	က	9	φ	ကု	-1-	餋
	∓ ⊱	8.0 t	75.4	82. 4	36. 36.	114'-10' 35	131. 40	1 41 .	147 45	157 ⁻	1 64		180 55	် တ္တေ	196	206 '	213 65	223° 68	229 ' 70
<u> </u>											-								
L7		9'-4" - 96'-9"	17600	17600	17400	14800	12800	11900	11200	10600	10100	9500	9000	8600	8200	7700	7500	7100	6800
<u>. </u>	70.0	2.85 - 29.5 m	8.0	8.0	7.9	6.7	5.8	5.4	5.1	4.8	4.6	4.3	4.1	3.9	3.7	3.5	3.4	3.2	3.1
L6		9'-4" - 105'-0"		17600	1	ì		13000	12300	11500	11000	10400	9900	9300	8800	8600	8200		
<u> </u>	65.0	2.85 - 32.0 m	8.0	8.0	8.0	7.3	6.3	5.9	5.6	5.2	5.0	4.7	4.5	4.2	4.0	3.9	3.7		
L5		i i			ı	l	15700	14600 6.6	1 3900 6.3	13000	12300 5.6	11700 5.3	11200	10600 4.8	10100 4.6				
	60.0	2.85 - 35.9 m	8.0	8.0	8.0	8.0	7.1			5.9			5.1	4.8	4.6	-			
L4		9'-4" - 124'-8"		17600	I		16800	15400	14800	13900	13200		11900 5.4						
Ŀ	55.0	2.85 - 38.0 m	8.0	8.0	8.0	8.0	7.6	7:0	6.7	6.3	6.0	5.6	5.4		ļ	ļ			
L3		9'-4" - 130'-11"		17600		17600	I	16300	15400	14600	13900								
	50.0	2.85 - 39.9 m	8.0	8.0	8.0	8.0	8.0	7.4	7.0	6.6	6.3					 			
L2		9'-4" - 131'-11"	17 600 8.0	17600 8.0	8.0	17600 8.0	17600 8.0	16500 7.5	15700 7.1							1			
L1	45.0 131'-3"	2.85 - 40.2 m 9'-4" - 131'-3"		17600	17600		17600	7.5	7.1							\vdash			
L	40.0	2.85 - 40.0 m	8.0	8.0	8.0	8.0	8.0												
<u> </u>	40.0	2.65 - 40.0 111	0.0	0.0	0.0			l			l			i		L			
ı	ft	35,300 lbs				4	l-Part I	_ine 🔨)[7 m	nax. 3	5,300	lbs (R	adius -	2'-7"	(-0.8)	m)
ı	m	16.0 t						`	S n	nax. 1	6.0 t							,	,
L7	227'-0"	12'-0" - 48'-7"	21800	19600	16100	13200	11200	10400	9700	9000	8600	7900	7500	7100	6600	6200	6000	5500	5300
 	69.2	3.65 - 14.8 m	9.9	8.9	7.3	6.0	5.1	4.7	4.4	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.7	2.5	2.4
L6	210'-8"		23800		17400	14600	12600	11500	10800	9900	9500	8800	8400	7700	7500	6800	6600		
1	64.2	3.65 - 15.9 m	10.8	9.8	7.9	6.6	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.5	3.4	3.1	3.0		
L5	194'-3"	12'-0" - 57'-9"	26900	24500	19800	16800	14300	13000	12300	11500	10800	10100	9700	9000	8600				
l	59.2	3.65 - 17.6 m	12.2	11.1	9.0	7.6	6.5	5.9	5.6	5.2	4.9	4.6	4.4	4.1	3.9				
L4		12'-0" - 61'-0"	28700	26000	21200	17900	15200	14100	13200	12300	11700	10800	10400						
1	54.2	3.65 - 18.6 m	13.0	11.8	9.6	8.1	6.9	6.4	6.0	5.6	5.3	4.9	4.7						
L3	161'-5"	12'-0" - 63'-8"	30200	27300	22300	18700	16100	14800	14100	12800	12300							-	
	49.2	3.65 - 19.4 m	13.7	12.4	10.1	8.5	7.3	6.7	6.4	5.8	5.6								
L2	145'-0"	12'-0" - 64'-0"	30400	27600	22500	19000	16300	15000	14100										
	44.2	3.65 - 19.5 m	13.8	12.5	10.2	8.6	7.4	6.8	6.4										
L1	128'-7"	12'-0" - 66'-3"	31700	28700	23600	19800	17000												
	39.2	3.65 - 20.2 m	14.4	13.0	10.7	9.0	7.7	1											

Speeds

FU 8-160/4	10.2 HP 7.5 kW								
SR 10-190/3	2 x 16.3 HP 2 x 12.0 kW								
K WB 120/4	♂	v = (0.9 r	2 x 11.4 HP 2 x 8.4 kW					
	₹ н	C max. = 705	' (215 m)	6 - layer	s			480 V / 60 Hz /	3 ph
		2-Part Line	→ 444 fpm 134 m/min	5 500 lbs 2 500 kg	4-Part Line	→ 222 fpm 67 m/min	11 000 lbs 5 000 kg		~140
Type SR WB 66-	台」	→	→ 276 fpm 84 m/min	9 300 lbs 4 200 kg		→ 138 fpm 42 m/min	18 600 lbs 8 400 kg	SR 10-190/3	HP ∼105
80/4F	**	~	→ 180 fpm 54 m/min	13 900 lbs 6 300 kg		→ 90 fpm 27 m/min	27 800 lbs 12 600 kg		kW
[108 HP] [79 kW]		_	→ 108 fpm 34 m/min	17 600 lbs 8 000 kg		→ 54 fpm 17 m/min	35 300 lbs 16 000 kg		170 kVA

Counterweight

Jib		L 1	L 2	L 3	L4	L 5	L6	L 7
	BG	30 000 lbs 13 600 kg	32 200 lbs 14 600 kg	36 600 lbs 16 600 kg	39 150 lbs 17 750 kg	43 550 lbs 19 750 kg	41 350 lbs 18 750 kg	45 750 lbs 20 750 kg
Counterweight	[lbs]	3 x 6 950 1 x 9 150	2 x 6 950 2 x 9 150	4 x 9 150	3 x 6 950 2 x 9 150	1 x 6 950 4 x 9 150	2 x 6 950 3 x 9 150	5 x 9 150
	[t]	3 x 3.15 1 x 4.15	2 x 3.15 2 x 4.15	4 x 4.15	3 x 3.15 2 x 4.15	1 x 3.15 4 x 4.15	2 x 3.15 3 x 4.15	5 x 4.15

PEINER SK 315 Dimensions and transport weights

See operating manual for mounting weights

_	Designation		Dime	nsions (f	t / m)	Weight	Volume
	200.3.12.1011					_	ft³/m³
1	Jib Section III		39.01 11.94	4.99 1.52	7.09 2.16	4 200 1.92	1 386 39.2
2	Jib Section I Section IV Section V Section VI Section VII Jib tip X		 39.01 11.89 38.65 11.78 19.19 5.85 35.34 10.77 36.03 10.98 33.33 10.16 3.12 0.95	4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 4.99 1.52 5.02	5.84 1.78 6.17 1.88 5.41 1.65 5.45 1.66 5.48 1.67 5.32 1.62 1.64 0.50	3 790 1.72 4 320 1.96 1 760 0.80 3 090 1.40 2 470 1.12 1 570 0.71 310 0.14	1 137 32.2 1 190 33.7 519 14.7 961 27.2 985 27.9 853 25.0 25 0.7
3	Turntable with slewing ring support		36.35 11.08 31.99 9.75	7.64 2.33 7.64 2.33	7.81 2.38 7.81 2.38	25 350 11.50 24 030 10.90	2 169 61.4 1 911 54.1
	Cabin with support and railing		10.17 3.10	4.92 1.50	7.25 2.21	1 320 0.60	364 10.3
4	Counter jib with hoist winch		38.13 11.62	5.91 1.80	6.00 1.83	14 550 6.60	1 353 38.3
	Hoist winch	66 WB	7.51 2.29	5.45 1.66	3.28 1.00	5 400 2.45	1 34 8.4
5	Counterweight	ВG	3.94 1.20 3.94 1.20	1.64 0.50 1.64 0.50	9.32 2.84 12.11 3.69	6 950 3.15 9 150 4.15	60 1.4 78 1.7
		TS 212.1	19.52 5.95	7.78 2.37	8.01 2.45	9 130 4.14	1 216 34.4
6	Tower section	TSV 212 with struts	31.17 9.50	9.84 3.00	10.00 3.05	20 330 9.22	3 067 86.9
		TSK 212	6.63 2.02	7.87 2.40	9.84 3.00	6 170 2.80	513 14.5
7	Travelling base, folded	UF 821	41.01 12.5	9.74 2.97	7.05 2.15	35 050 15.90	2 816 79.8
8	Stationary base, folded	U 821	 34.55 10.53	9.06 2.76	2.79 0.85	17 130 7.77	873 24.7
9	Central ballast block	BZ	11.48 3.50	4.92 1.50	2.20 0.67	11 020 5.00	124 3.5
10	Foundation pad	BF	9.19 2.80	3.28 1.00	1.87 0.57	8 820 4.00	57 1.6
11	Accessories					4 800 2.17	

For more information, product demonstration, or details on lease and rental plans, please contact your local Terex Towers Distributor.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty applicable to the particular product and sale. We make no other warranty, expressed or implied.

Bigge Crane and Rigging Co.

10700 Bigge Avenue San Leandro, CA 94577 Phone: (888) 337-BIGGE or (510) 638-8100 Fax: (510) 639-4053 Email: towers@bigge.com Web site: www.biggetowercrane.com **TEREX TOWERS**

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