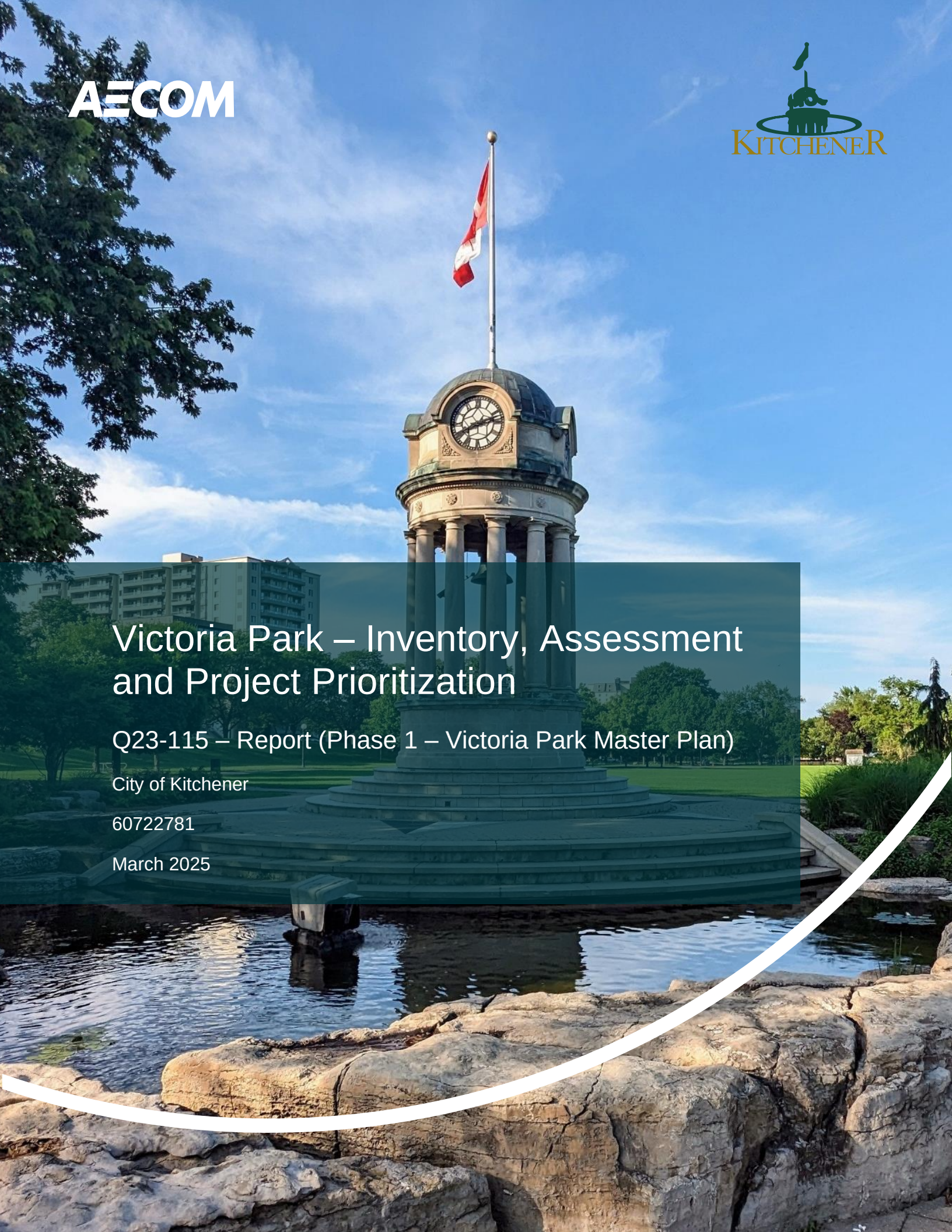


The background of the entire page is a photograph of the Victoria Park clock tower. The tower is a circular stone structure with a clock face, topped with a dome and a flagpole flying the Canadian flag. It is situated in a park with green grass, trees, and a pond in the foreground. A semi-transparent dark green rectangle is overlaid on the middle of the image to provide a background for the text.

# Victoria Park – Inventory, Assessment and Project Prioritization

Q23-115 – Report (Phase 1 – Victoria Park Master Plan)

City of Kitchener

60722781

March 2025



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**Victoria Park – Inventory, Assessment and Project Prioritization**  
Q23-115 – Report (Phase 1 – Victoria Park Master Plan)

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# Executive Summary

This report provides an inventory of existing park assets, an assessment of each asset’s condition and lifecycle costing, and recommendations for project prioritization. Site inspections were completed between December 2023 and November 2024. The inspections included a detailed visual inspection of the elements within Victoria Park and a desktop review of the existing surveys, assessments, reports and site investigations. The desktop review included reviewing:

- Band Stand Condition Assessment (2023)
- Band Stand Improvement Construction documents (2024)
- Base Files (CAD), City of Kitchener (2023)
- Building Condition Assessment Report(s) (2022)
- Forestry Data (GIS), City of Kitchener (2024)
- Underground Utilities (As-Recorded by the City of Kitchener)
- Irrigation Construction documents (2014)
- OSIM Reports (2023)
- Paving Condition Evaluation (2023)
- Stormwater SUE Investigation (CAD) (Victoria Park Commons) (2023)
- UG Utility Survey (CAD) (2010)
- VP Lighting (CAD) (2010)
- Water Utilities (2023)

The information in **Table 1** is a summary of the basic information for Victoria Park.

**Table 1: Victoria Park Information**

|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Facility Name:</b>      | Victoria Park                                                                                                                                                                                                                                                   |
| <b>Location:</b>           | 92 David Street, Kitchener, Ontario                                                                                                                                                                                                                             |
| <b>Year Park Opened:</b>   | 1896                                                                                                                                                                                                                                                            |
| <b>Park Size:</b>          | 46-acres (18 hectares)                                                                                                                                                                                                                                          |
| <b>Date of Site Visit:</b> | December 2023 and February 2024                                                                                                                                                                                                                                 |
| <b>Assessment Dates</b>    | December 08, 2023<br>December 19, 2023<br>December 21, 2023<br>February 15, 2024<br>April 30, 2024 (Splashpad)<br>May 8, 2024 (Playground)<br>August 2024 (SUE Investigation)<br>Consultant Assessment Unavailable – Internal Review by Operations (Irrigation) |
| <b>Inspections by:</b>     | AECOM, ABC Recreation, MultiView, and Safe Play Recreation Inc.                                                                                                                                                                                                 |



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# 1. Purpose of Study

AECOM was retained by the City of Kitchener (the ‘City’) as a multi-disciplinary consultant to complete the park inventory, condition assessment and project prioritization, with the goal to identify aging park infrastructure and guide future capital operations and maintenance work.

## 2. Description of Park

Victoria Park opened in 1896 (Kitchener, n.d.) and is one of the oldest parks in Kitchener, Ontario. Falling within the Victoria Park Heritage Conservation District, the park contains significant Victorian architecture and romantic landscapes unique to the Victoria Park neighbourhood. (Steinfeld, 2015) Many of the original features of the park remain, including an iron bridge, historic pavilion and mature trees and vegetation.

The park provides all-season use through the availability of large open green space in the commons, a playground and splash pad, bookable pavilion building, band stand on Roos Island, and skating on the outdoor ice rinks. There is also a newly renovated Boathouse facility, basketball court, and walking and running trails that make the park accessible to pedestrians and cyclists. Multiple entrances to the park are present at Joseph Street, Jubilee Drive, Schneider Avenue and Roland Street as well as two connections from the Iron Horse Trail. Throughout the park, there are four parking lots located on Schneider Avenue (pavilion parking lot), on-street parking on Schneider Avenue and Roland Street and two parking lots on Jubilee Drive. (Kitchener, n.d.)

There are two washroom facilities located throughout the park. The first is located at the corner of Jubilee Drive and David Street and is available year-round. The second location is near the Pavilion and playground area and is open to the public between May and November. Adjacent to the Pavilion is the splashpad and playground area that consists of swings, climbing structures, water features, partially rubberized surface, and an outdoor gym area with accessible fitness equipment and a rubberized tile surface.

The 46-acre (18 hectare) park consists of various buildings, statues, monuments, and memorial features. At the centre of the park is the human-made Victoria Park Lake that is fed by Schneider Creek. It is an active stormwater facility and encompasses three small islands, two of which are not accessible to the public. Roos Island is the only island within the park that is accessible to the public upon which the Kitchener Rotary Band Stand is located. Restoration of the band stand was completed in summer of 2024. The Gaukel Street entrance welcomes visitors to the park through a vegetated landscape complemented with a fountain and luggage sculptures and directs visitors towards the historic clock tower that was originally located at the former Kitchener City Hall. Along Jubilee Drive near Water Street South, the park has a statue of Queen Victoria and a classic cannon situated along the roadway which was unveiled for the ten-year anniversary of her death. There is a second historic cannon located on Roos Island, paying homage to wartime history.

Over the years, the park has undergone numerous renovations, including the restoration of the lake in the fall of 2011. This project involved removing excess sediment and installing concrete and armourstone blocks along the shoreline to serve as a retaining wall, preventing further erosion. The Boathouse along Jubilee Drive has seen multiple iterations and renovations, serving various purposes over time. It has

functioned as a boat rental facility, a changing room for Kitchener’s football club, a concession stand, public washrooms, and a Tea House restaurant.

At the time of the site inspections and this report, the Boathouse was undergoing renovations and reopened in fall 2024.

## 3. Approach and Methodology

The park inventory, condition assessment and project prioritization has captured the current condition of existing park infrastructure and amenities within Victoria Park. The report provides the results of AECOM's investigative work, on-site infrastructure review and analysis, and collection of data. The collection of data includes, but is not limited to, the confirmation of materials, construction timelines and overall conditions, to complete the Parks Facility Condition Assessments. The Parks Facility Condition Assessment assisted with the establishment of the Parks Facility Condition Index for each asset within Victoria Park. AECOM has taken the Parks Facility Condition Index and provided a breakdown within the report of the assets, their condition, recommended action and budget estimate required to contribute to the City's understanding of the overall state of the park infrastructure and allow for prioritization and planning of future capital and Operations and Maintenance works, as well as future park development and improvement.

### 3.1 Park Infrastructure Assessment

In December 2023, AECOM's staff used City-provided base plans to divide the site efficiently and effectively into separate quadrants and prepared a chart to record each asset along with a detailed description and initial condition assessment.

AECOM and their subconsultant, ABC Recreation, co-ordinated with the City to obtain access to the splashpad service bunker and test the mechanical function of the splashpad features. The tests have been completed in April 2024, and a summary included in **Section 4.1.2** of this report and Victoria Park prioritization in Section 6.

AECOM has also co-ordinated with their subconsultant, Safe Play Recreation Inc., to have a Certified Playground Inspector perform an audit on the playground areas, play equipment and outdoor fitness equipment, including surface impact testing. The test was completed on June 17, 2024, and a summary has been included in **Appendix D** of this report.

After a review of all existing drawings, studies, documents and site investigations, AECOM has identified each asset with the asset type, style, material, manufacturer, and installation year. The assessment of each asset provided an estimated remaining life and the overall condition of each asset on a Condition Index. All urgent failing items that need to be closed, decommissioned or repaired within the current year have been flagged. Through the assessment, each asset type was evaluated and estimated costs for maintenance, repair, replacement and/or decommissioning has been provided in **Appendix C**.

## 3.2 Park Utilities Assessment

AECOM's electrical engineering team completed their assessment of the existing hydro services and light fixtures throughout the site in January 2024, and the conclusions of this can be found in **Section 4.2.2** Electrical Services.

A desktop review has also been completed for the existing irrigation system designed and installed in the Victoria Park Commons by Creative Irrigation Solutions Inc., using as built information provided by the City of Kitchener. Our findings can be found in **Section 4.2.6** Irrigation.

AECOM's civil engineering team has co-ordinated with MultiView subconsultant to review and assess the existing services and utilities within the park, with the exception of Victoria Park Commons. MultiView has conducted a Quality Level B subsurface utility investigation in August and September 2024. The assessment results are included in **Appendix G**.

AECOM's structural engineer has reviewed the Building Condition Assessments provided by the City in November 2023, and has included their review within this report, as noted in **Section 4.3.2** Building Condition Assessment.

AECOM's mechanical engineer has also conducted a review of the same Building Condition Assessment documents provided by the City to gain an understanding of the state of the mechanical systems in all buildings and has provided their review within this report, as noted in **Section 4.2.3** Building Mechanical Services.

## 3.3 Review and Integration of Data by Others

AECOM reviewed various data sources provided by others, including the Band Stand Condition Assessment (2023), the Building Condition Assessment Report(s) (2022), OSIM Reports (2023), Paving Condition Evaluation (2023). The review included an assessment of condition ratings and recommendations, evaluating agreement or disagreement with the provided data. All urgent failing items requiring repair or decommissioning were identified, along with an analysis of the estimated costs for maintenance, repair, replacement, and/or decommissioning. Based on the provided information, AECOM has outlined recommendations for short-, medium-, and long-term action items within the **Section 6** Project Prioritization.

## 4. Asset Condition Rating

AECOM has developed the following Component Condition Rating system to assess each asset within the park.

- **Very Good Condition**  
Asset is performing very well, no noticeable defects.
- **Good Condition**  
Asset is performing adequately; minor maintenance required in the next 1 to 5 years. The asset has some deterioration, but serviceability/use is not impaired.
- **Fair Condition**  
Asset is operational, but replacement or repairs are required in the next 1 to 5 years. The asset has deterioration and serviceability/use is impaired materially.
- **Poor Condition**  
Asset requires replacement or repairs in next 1 to 5 years. The asset has considerable deterioration and serviceability/use is impaired.
- **Very Poor Condition**  
Asset is beyond useful life (or not functioning) - replace/repair in current year. The asset poses immediate and severe concerns to personal safety or quality of adjacent components.



## 4.1 Park Infrastructure

### 4.1.1 Playgrounds & Outdoor Gym Equipment Review

Refer to **Appendix D** for a detailed breakdown of the play space and playground equipment, their condition, and recommended repairs completed by Safe Play Recreation Inc.

### 4.1.2 Splash Pad Review

The Splash Pad has been inspected by a joint team of City, AECOM and ABC Recreation staff on April 30, 2024.

It was immediately apparent that the equipment was in a state of disrepair with many indications of paint missing and large amounts of calcium deposits on the upright features. A more thorough investigation of the site was performed involving a thorough investigation of the vault and splashpad mechanical workings.

The vault and contents including the water distribution manifold, feature solenoid valves and controller had been replaced within the past 5 to 6 years and as such are in good working order. The manifold consists of a 20-valve configuration allowing for 20 zones of spray equipment and the controller is a model equipped to accommodate the manifold capacity.

As for the features, many of the elements are dated and functionality was limited to non-existent on some (see photos below). It was determined through conversation that many of the features had been turned off from the manifold due to poor functionality resulting in a general lack of optimal performance. This was determined to be true of both above ground or upright features as well as some of the ground spray elements.

**Figure 1: Existing Above Ground Splashpad Infrastructure Consisting of a Yellow Periscope Feature**



**Figure 2: Existing Above Ground Splashpad Infrastructure Consisting of Misting Nozzles and Jet Nozzles Spraying Horizontally, called a Melvinator**



With all the features being of similar vintage, it was determined that it would be extremely difficult, if not impossible, to repair the features in their current state. Removal of the features, repair and then re-instatement was deemed a “good money after bad” situation where it would be more economical and of far greater functionality to simply remove certain features and replace them with a newer, modern version. When looking at the splashpad as a whole unit, to repair or replace some and not all would also be detrimental to the overall success of the splashpad. As such, a complete overhaul of the splashpad features and elements was determined to be the best path forward to the creation of a functional splashpad in such a busy and signature park location within Kitchener.

**Figure 3: Existing Above Ground Splashpad Colourful Bucket Dumping Infrastructure**



It was further determined that the current drainage situation for the splashpad is not ideal and a contributing factor to the features (especially some of the ground spray elements) not working optimally. The pad is sloped from one side to the other with a sheet flow orientation. Water from the features gathers as it falls and accumulates as it runs across the pad with enough volume to have a significant impact on the



performance given the sheer volume of water running over them. Water then gathers at the low side of the pad draining to the storm sewer. To increase performance and optimize the functionality of ground spray features, a better approach might be to start with a level pad around the perimeter with a slope to the centre and perhaps add multiple drains to reduce the volume of water accumulating in one spot. This approach would significantly improve the performance of the ground spray features as well as overall drainage performance of the pad.

Another observation is the lack of attention given to separation of age groups within the existing package of spray elements. There are no designated areas for younger ages or older ages and no differentiation between ages and abilities. Re-designing the pad to better reflect these differences would fall into best practice for design of a splashpad facility where there are defined zones of use for varying ages and abilities. Often these have a designated toddler and passive play zone where the water effects are more gentle and less aggressive, a family zone often defined by circuit play and higher volume spray features than the toddler zone and then a teen zone area that features interactive and potentially competitive spray features like cannons. There is little to no evidence that the existing splashpad follows this design intent and again would be difficult to achieve with the current configuration swapping like-for-like elements.

Finally in an overall analysis of the facility, the current configuration utilizes a subterranean vault to contain the mechanical workings of the splashpad. Best practices would lean toward an above-ground application where the manifold, controller and all electrical components are high and dry from a below grade vault. As such we would recommend abandoning the current vault by removing it and either place an above grade cabinet or bunker style building to house the mechanical equipment.

In summary, the original elements of the splashpad (the features on the pad itself) at Victoria Park are beyond repair or restoration while those more recently upgraded elements (vault, water distribution manifold and controller) are salvageable should the City of Kitchener have an appetite to replace a splashpad at this location.

### **4.1.3 Site Furnishings**

Numerous site furnishings have been identified and assessed throughout the park. A description of these elements follows.

#### **4.1.3.1 Temporary Installations**

##### **Yellow Plastic Salt Storage Bin**

Temporary modular salt storage bins are installed at major intersections of the park pathways and at bridge abutments. These are provided by the during the winter months for park maintenance. Manufactured by Tillson Brands, the salt storage bins are molded

from high density Polyethylene, approximately 800 millimetres x 580 millimetres x 700 millimetres and approximately 0.285 metres squared (10 cubic feet).

Multiple storage bins throughout the park have developed structural cracks. The replacement of these bins is recommended to ensure that excess salt does not spill out of the bin onto the adjacent soft landscape and unnecessarily spread to other areas of the park. The City replaces the storage bins as needed and are stocked internally through maintenance and operations.

**Figure 4: Temporary Salt Storage Bin**



### **Ice Rink**

During the winter months, the City installs a temporary skating rink on the Victoria Park Commons area, adjacent to the Rink Shack building. The rink operates throughout the season, weather permitting, as it is built directly on the grass and lacks refrigeration. At the time of inspections in 2024, the rink was not operational. The operation of the skating rink is dependent on the fluctuating winter temperatures and the ongoing maintenance of the ice surface, including shoveling and flooding of the ice performed by City maintenance staff.

#### **4.1.3.2 Light Poles**

Refer to electrical **Section 4.2.2.1 Site Lighting** for light pole information. For general light pole aesthetic maintenance, apply paint touch-up if paint deterioration is less than 30% of the light pole. Repaint the entirety of the light pole if deterioration is more than 30%. It is recommended to remove the moss and graffiti from the light poles prior to repainting. It is recommended that the light poles are consistent throughout the park. Having consistent light poles throughout the park creates a common look and allows for parts to be readily available for maintenance.

Throughout the park, the pathways are lit primarily by the older style cast iron standards with white globe lighting. The park roadways are lit primarily by taller fluted metal poles with goose necks and pendent art decorated style lights and standard city streetlights. The combination of the lights provide adequate lighting throughout most of the park except for a few areas.

A key area that does not have adequate lighting is the west end of the park adjacent to the railway and pedestrian bridge 1027. The last light pole along the pathway is approximately 75 metres from the pedestrian bridge on the north side of Victoria Lake and the closest on the south side is approximately 100 metres from the pedestrian bridge. Along the pathway towards the Iron Horse trail, the next light pole is on the south side of the railway, outside of the park. This area of the park has limited visibility as you approach the bridge, and proximity to vegetation that blocks visibility along the residential fence on the north side. If light pollution is a concern in this area due to Victoria Lake and the storm reserve area, pedestrian scale lighting or light bollards would be a good alternative to increase the safety and visibility in this area.

Another area of concern is the back corner of the parking lot adjacent to the maintenance building (machine shop). Behind the maintenance building is a granular and dirt pathway that connects to the parking lot and the trail adjacent to the Iron Horse Trail and bridge 1027. This connection is not commonly used by the public as it does not have any lighting and typically is used for storage by the city. If this area is to be left open as a potential pathway connection, then additional lighting should be included.

Additionally, to the northeast of the washroom building (Jubilee) a large grouping of trees blocks the surrounding pedestrian pathway lighting and the street lighting along David Street. This is an area that commonly is unsafe for the community due to limited visibility and limited lighting. The addition of lighting can assist with the visibility from the pathway and from the street level for pedestrians and vehicles that are driving by.

### Figure 5: Victoria Park Lighting and Dark Zones



### 4.1.3.3 Picnic Tables

#### 4.1.3.3.1 Current Conditions

Four types of moveable picnic tables have been identified throughout the park. This includes the LT6-Heavy-Duty Two-Sided picnic table (Bleacher Guys), a 6 foot steel frame with painted wood panels, an 8 foot steel frame with painted wood panels, and a 6 foot wood picnic table.

The LT6-Heavy-Duty Two-Sided picnic table, supplied by Bleacher Guys, is made from a hot-dip galvanized 2 and 3/8 inches O.D. Sch 40 pipe frame, 6-foot pressure treated lumber planking and is designed to be non-tippable.

All moveable picnic tables appear to be in good-to-fair condition. Structurally, the frames of the tables are in very good condition; most of the table's planking is in good condition, with minor vandalization that requires removal or refinishing impacted planks. A few picnic tables require new pressure treated lumber planking where these are deteriorated or broken off. At the time of inspection, most of the tables that require work were the ones located near the Summer Kitchen building, the playground, and the Victoria Park Commons. Refer to **Appendix B** for images, bench conditions and additional recommendations.

Additionally, there are two varieties of square quad tables: one with three bench seats and one with four bench seats. The tables have a buried foundation with a central post



and are surrounded by either dirt or limestone screenings. The table with three bench seats has the option for accessible seating as the fourth seat option. The 'square tables' are located near the basketball court adjacent to the picnic shade structure and the Summer Kitchen building.

Refer to **Appendix C** for a detailed breakdown of the benches, their condition, and individualized recommended repairs.

#### **4.1.3.3.2 Recommended Repairs**

For detailed recommendations for specific tables, refer to **Appendix C**.

Throughout the park, there are a total of 52 (at the time of inspection) picnic tables in various designs and conditions. Per the *City of Kitchener Urban Design Manual Accessibility Standards*, a minimum of 20 percent of the total tables provided are to be accessible. The tables currently located within the park do not meet this minimum. There are currently four (approximately 7.7 percent) accessible quad tables located near the Summer Kitchen building. The number of accessible tables are to be increased within the park to provide more inclusive opportunities in various areas of the park.

For a consistent, uniform look across the picnic tables, it is recommended that the tables all be painted the same colour. Creating a consistent look throughout the park with the picnic tables can be accomplished through a consistent colour palette to create a unified look. Grouping similar shapes and styles of furniture will make it appear as though they are from the same collection. Creating similar scale and proportion between pieces of furniture, as well as using similar materials and finishes, and arranging in functional groups would be recommended in different sections of the park.

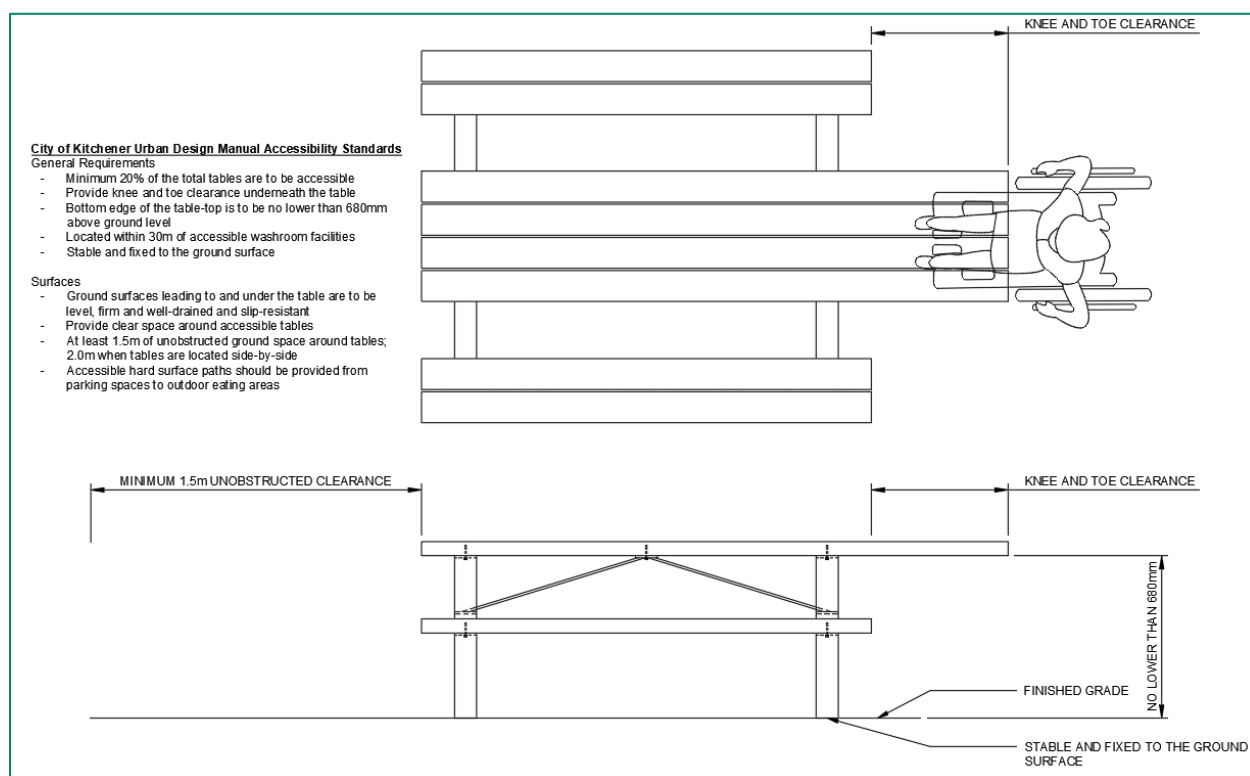
Painting the tables with an anti-graffiti coating will repel paint, spray paint and permanent marker, providing the opportunity to clean and remove existing graffiti from the tables. The anti-graffiti coating can be easily applied to the site furnishings with a brush, roll or spray and directly applied to bare brick, concrete or previously painted surfaces such as steel or wood. Having an anti-graffiti coating that doesn't require solvent cleaning or abrasives to remove graffiti but instead allows for simple pressure washing or hand-wiping, will allow for quick and easy maintenance. It is to be noted that this anti-graffiti coating will not protect against engraving of wood.

Multiple tables have wood slats on the seats or tabletop that are either warped, rotting, broken, splintered or not attached properly. This can result in safety concerns to the users of the park if the wood plank becomes sharp acting as an impalement object. These are to be corrected to ensure the safety of all users of the park. All the benches, except the wooden 6 foot picnic table have steel legs and structures. These benches, due to their age, have started to rust and have peeling paint. To reduce further exposure to the elements and further rusting, these should be painted and repaired (if they were previously painted). The steel structures and bolts should also be monitored

for future rusting that could negatively impact the overall structure and use of the benches. Completing regular assessments of the tables will allow for issues and required repairs to be reported and documented, allowing for replacements and repairs to happen before the problem escalates.

The square quad tables have two seating options, one has 4 bench seats, and the other has 3 bench seats. The square table with three bench options, has the opportunity for a user with accessibility requirements or a user with a stroller to approach the table. However, the location of the tables do not provide an accessible path directly to the table. The accessible path should be a minimum width of 1.5 metre, without obstructions and consist of a maximum running slope of 5 percent and a maximum cross slope of 5 percent, per the *City of Kitchener Urban Design Manual Accessibility Standards*. The tables should also be located within 30 metres of accessible washroom facilities, concessions and viewpoints. The closest washroom to the non-movable accessible tables is located near the Pavilion building (approximately 135 metres), commonly known as the ‘Teen Town’ washrooms, although the closest accessible washroom is located on Jubilee Drive at David Street (approximately 800 metres).

To meet the minimum requirements for accessible tables, the city should incorporate more tables that meet the accessibility requirements. The tables should provide knee and toe clearance for a user to be able to pull up to the table and sit tucked under the tabletop. The bottom of the tabletop is to be no lower than 680 millimetre above ground level, providing a level, firm, well-drained and slip resistant surface at the table and approaching the table.

**Figure 6: Outdoor Public Use Picnic Tables**

#### 4.1.3.4 Benches

The park has a variety of bench styles, consisting of eight (8) different benches ranging from wood memorial benches to powder coated metal benches. Refer to **Appendix C** for a detailed breakdown of the benches, their condition, and individualized recommended repairs.

##### 4.1.3.4.1 MMCITE Woody Bench LWD 150-01

##### Current Conditions

The Woody Bench by MMCITE provided at the southwest park entrance along the Iron Horse Trail consists of wooden boards connected with stainless steel rods resting on galvanized steel legs embedded in concrete. The bench is 3.0 metres in length, 790 millimetres in height to the top of the back rest from finished grade, the seat height is 440 millimetres and 595 millimetres in depth. The bench provides the option to place your bike tire into slats on the right side (when facing the bench) of the bench front while you rest. The bench is in very good condition structurally but has significant weathering on its wood surfaces. Refer to **Appendix C** for more information on the bench, its condition, and recommended repairs.

**Figure 7: MMCITE Woody Bench**



**Recommended Repairs:**

The intended design of the wooden slats is to age naturally. The weathering of the wood is as intended but should be monitored to ensure the wood does not start to deteriorate. If it does start to deteriorate then the slats should be replaced. Alternatively, an eco-friendly oil for outdoor wood furniture can be applied to assist with the wood protection against moisture and UV rays. The stainless-steel rods and legs supporting the bench structure are in good condition and have not weathered or deteriorated. Continual monitoring and occasional re-assessment will ensure an aesthetically pleasing, structurally sound bench for park and trail users.

**4.1.3.4.2 Bleacher Guys Bench**

**Current Conditions:**

The surface mount bench by Bleacher Guys has a hot-dip galvanized frame with recycled plastic planking seat and back rest. The bench seat height is approximately 450 millimetres (18 inches), within the accessible seat height requirements of 430 millimetres – 480 millimetres (17 inches – 19 inches).

The bench does not have armrests, which provides the opportunity for users to slide onto the bench if needed but does not provide support to sit and stand from the bench. Having at least one armrest will provide the assistance required for users to sit and stand with support if needed. The bench is also located on a concrete strip around the asphalt pathway and is not level with the adjacent surfaces, posing a tripping hazard. The bench is no longer a current style that is used with the park.

**Figure 8: Bleacher Guys Bench**



**Recommended Repairs:**

It is recommended that the concrete and asphalt surfaces are levelled to ensure a smooth transition and to eliminate the tripping hazard. A short-term solution is for the asphalt paving to be raised and graded to meet the concrete slab edge underneath the bench, while allowing water to runoff unobstructed towards the landscaped open space behind the bench. A long-term solution is to provide one consistent surface, concrete or asphalt, reducing the future possibility of tripping hazards. It is also recommended that planking is monitored for its condition and to be replaced to match other site furnishings within the park, to ensure a cohesive approach for all furnishings within the park. If the bench needs to be replaced due to deterioration then it should be replaced to match the current standard and style of benches within the park.

**4.1.3.4.3 Maglin Bench**

**Current Conditions:**

The Maglin 510 Backed bench consists of steel vertical slats for the seat, back and two end arms. The bench is 177.8 centimetres in length, 79.7 centimetres in height and 65.9 centimetres in depth. The 510 Backed bench provides an accessible seating height of 47.1 centimetres. The bench is located on a concrete pad and provides an additional space adjacent to the bench for a wheelchair or stroller. The style of the bench matches the 'Victorian' theme of the other benches throughout the park, providing a more robust and vandalism-resistant option in comparison to the Victorian wood slat benches. The steel slats and construction of the bench provides a longer life cycle in comparison to the wooden benches and is easier to repair.



**Figure 9: Maglin Bench**



**Recommended Repairs:**

The bench is in very good condition both structurally and aesthetically. It provides an accessible space near the fitness equipment and the concrete pad is flush with the asphalt trail. As the bench ages, it could be replaced with a bench that matches other benches throughout the park to provide a cohesive common look and feel.

**4.1.3.4.4 Memorial & Reflection Bench**

**Current Conditions:**

Throughout the park there are two types of memorial and reflection benches. The benches are located along walkways and key rest areas. The ‘Victorian’ style memorial bench consists of black powder coated steel; surface mounted with arm rests on the end of the benches. It also has four horizontal slats for the seat and four horizontal slats for the back. The ‘Victorian’ style memorial bench has a plaque at the top of the back rest consisting of a brass memorial plaque with embossed text. This memorial bench has three version. One version has a mid-bar support that runs along the back of the wood slats under the seat and up the back for added support of the slats in the centre of the bench. The other two versions do not have the additional mid-bar support. The two versions without the additional mid-bench support have two different arm rest connections to the wood slats on the bench seat.

The ‘Reflection’ bench, located at the corner of Jubilee Drive and Water Street South is a modern version of the Victorian style bench with black powder coated arms and is surface mounted. The bench and back rest each consist of 3 horizontal boards with a black metal plaque with silver text affixed to the top wooden slat using screws. The bench install was part of the Every Child Matters crosswalk installed in 2022. The direction that the bench is orientated, southeast, is important and must be approved if it is to be moved or replaced.

The memorial and reflection benches are approximately 450 millimetres (18 inches) in height from finished grade to bench seat.





### **Reflection Bench**

- 3 wood slats on the back and on the seat
- Surface mounted bench legs with connection bar
- Armrest support connects the back slats and the seat slats
- Wood slats bolted to metal frame from front of bench



### **Victorian Bench**

- 4 wood slats on the back and on the seat
- Armrest support extends the depth of the seat and connects to the back and the second wood slat on the seat
- Some benches have memorial plaques on the back wood slats
- Surface mounted – 1 bolt per leg of the bench (times 4)
- Wood slats bolted to metal frame from back of bench



### **Victorian Bench with Mid-bar**

- 4 wood slats on the back and on the seat
- Armrest support extends the depth of the seat and connects to the back and the second wood slat on the seat
- Some benches have memorial plaques on the back wood slats
- Surface mounted – 1 bolt per leg of the bench (times 4)
- Wood slats bolted to metal frame from back of bench
- Metal support along the middle of the bench back and seat, located on the underside of the bench



### Victorian Memorial Bench

- 4 wood slats on the back and on the seat
- Armrest support extends half of the depth of the seat and has a support around all 4 wood seat slats
- Surface mounted – 1 bolt per leg of the bench (times 4)
- Some benches have memorial plaques on the back
- Wood slats bolted to metal frame from back of bench

### Recommended Repairs:

Throughout the park there are 4 similar but distinct memorial / reflection benches. The benches are in various states of aging based on their installation date and the frequency of use. Multiple benches are worn down on the wood slats from use, weathering and graffiti, resulting in the need to clean the bench or repair the wood slats. A couple of the benches have sections of the metal framing that has broken off. This can cause safety issues for users of the park and should be repaired soon. The standardization of the benches would allow for simplified maintenance and replacement and the standardization should include a bench that is robust and graffiti- and vandalism resistant. The location of the benches should all be located on a concrete base to reduce the need for ground maintenance and repairs.

Additionally, the black paint from the metal framing structure and legs of the bench has begun to peel or has completely peeled off and should be repainted. As a result, benches have begun to rust, and it is recommended to repair this to prevent further rusting.

Multiple benches have lost the bolts that affix the legs to the concrete pad. A couple of benches are limited to one or two bolts holding the bench to the surface, allowing it to be tipped backwards if a user were to lean back on the bench. This is a major safety issue and needs to be repaired. A bench located along the pedestrian pathway on the north side of Victoria Park Lake, to the east of the small shade structure (pergola two) has two bolts remaining. One of the remaining bolts on the bench leg can easily be removed by hand. Completing regular inspections of the benches will allow for maintenance as the repairs are needed instead of waiting until the item is close to being past repairable. Refer to **Figures 10, 11 and 12** for photos.



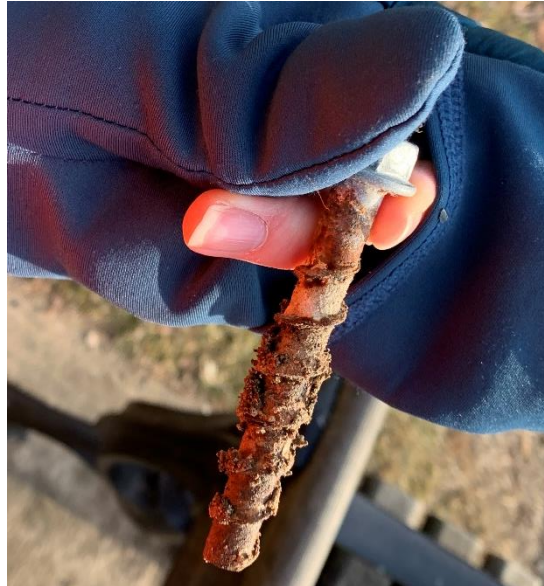
**Figure 10: Memorial with Bench Broken Arm Rest**



**Figure 11: Memorial Bench Missing Mounting Bolts**



**Figure 12: Memorial Bench Mounting Bolt in Person's Hand**



#### **4.1.3.4.5 Robin Galva Frame Bench**

**Current Conditions:**

This surface mounted bench is located along the pathways near the playgrounds, although the concrete bench pad and the adjacent asphalt are not flush. The bench consists of a hot dipped galvanized frame and three wood slats for the back and three wood slats for the seat. The bench has metal armrests at either end of the bench and is supplied by Michael's Stabling Developments Inc. The height of the bench is 460 millimetres from finished grade to seat, meeting the minimum accessibility seat height requirement of 46 centimetres.

**Figure 13: Robin Galva Frame Bench**



### **Recommended Repairs:**

The paved surfaces surrounding the bench should be flush to reduce the possibility of tripping hazards, especially as the bench is located near the playground and will have children running towards the bench. The asphalt pathway in front of the bench should be raised to create a flush transition between the asphalt and concrete strip that the bench is located on.

When the bench needs to be replaced due to weathering and aging, it is recommended that the bench be replaced with a model similar or the same as the other benches throughout the park. This will create a cohesive look throughout the park and reduce situations like this where there is only one bench of this style.

### **4.1.3.5 Bicycle Racks**

The park has three styles of bicycles racks, ranging in style and number of bicycles that can be supported. Refer to **Appendix C** for a detailed breakdown of the bicycle racks, their condition, and individualized recommended repairs.

#### **4.1.3.5.1 Lollipop Shaped Bicycle Rack**

**Figure 14: Lollipop Shaped Bicycle Rack**



### **Current Conditions:**

This bicycle rack is a surface mounted tubular steel structure that can hold one bicycle, consisting of a single post and loop at the top.

### **Recommended Repairs:**

The bicycle rack is in one location throughout the park, located at the Jubilee Washroom Building, and is not consistent with the other bicycle racks. The base plate



and post are rusting, causing the rust to stain the concrete it is mounted to. It is recommended to remove the single bicycle rack and replace it with a bicycle rack that can support more bicycles and is consistent with other bicycle racks throughout the park. The City shall advise if there are standards for streetscape and/or park installations.

#### **4.1.3.5.2 Maglin 500 Series**

**Figure 15: Maglin 500 Series Bicycle Rack**



#### **Current Conditions:**

The Maglin 500 series bicycle rack is a powder coated (colour black) steel, surface mounted structure. The bicycle rack stands 90 centimetres tall and can support two bicycles per structure.

#### **Recommended Repairs:**

The Maglin bicycle rack is located near the parking along Dill Street and the fitness equipment. The bicycle rack appears to be the most recently installed of the three bicycle racks and is in good condition. No repairs are required at the time of inspection.

#### 4.1.3.5.3 Quad Bike Rack

**Figure 16: Quad Bike Rack along Pedestrian Pathway**



##### **Current Conditions:**

Surface mounted onto a concrete pad with a steel frame that is powder coated black. This bicycle rack can support 4 bicycles and is located beside heavily travelled pathways. One of the bicycle racks is located near the Boathouse along Jubilee Drive, located on a concrete pad, but there is not a connection from the trail to the bike rack. Users need to move their bike across grass to reach the concrete pad. The concrete pad is also not large enough for a bike to be placed on the concrete and be off the grass, this will create maintenance issues in the future if the bicycle rack is heavily used.

**Figure 17: Quad Bike Rack near Boathouse**



### **Recommended Repairs:**

Located adjacent to the Pavilion Building parking lot, the quad bicycle rack has paint chipping and the surface-mounted bars rusting. The structure of the bicycle rack appears to be in good condition but should be monitored to ensure the possibility of rust does not damage the structure. The surface mounted legs can pose a tripping hazard as they extend past the loop structure and have started to rust and bend. It is recommended to have bicycle racks that have flush surface mounted base plates to reduce the opportunity for slips, trips and falls. The bicycle racks should be located along the pathways or have a connection off the pathway to where the bicycle rack is located. The concrete pad that the bicycle racks are placed on should be large enough for a bike to be fully on the concrete and not on surrounding softscape, creating maintenance issues for bicycle racks that are heavily used.

#### **4.1.3.5.4 Overall Bicycle Rack Recommendations**

Overall, having different bicycle racks throughout the park can make it difficult for maintenance and repairs. The different bicycle racks can require different materials and parts that may not be readily available. One bicycle rack should be used throughout the park to create a cohesive look and to reduce maintenance difficulty. The location of the bicycle racks should be reconsidered and be located close to main areas of the park, parking lots, and key connector areas. When determining the location of the bicycle racks, they should be located close to pedestrian pathways and located outside of areas with high salt application. The location of the bicycle rack should also be in an area that does not have snow storage piles on the site furnishing. Piling snow on the bicycle rack can cause structural damage and increase exposure to moisture from melting snow that can result in rust and corrosion. Installing bicycle racks that are powder coated, provides a finish that resists rusting, chipping, peeling and fading. Preventing salt damage to the bicycle racks involves regular cleaning, a rust-resistant coating, stainless steel materials, ensuring proper drainage to reduce water pooling, regular maintenance and inspections to address any signs of rust or damage early and installing bicycle racks under a canopy or shelter where possible.

### **4.1.3.6 Bollards**

#### **4.1.3.6.1 Fluted Bollard**

##### **Current Conditions:**

The fluted bollards are located primarily along Jubilee Drive, with 4 located near the historic bridge to Roos Island and 12 located in front of the boathouse. The bollards feature a wide base that tapers into a slender body with decorative fluting. The top of the bollard is adorned with a large spherical casting. The bollards are surface mounted with the mounting hardware consisting of bolts, nuts and flat washers that are beginning to rust. The bollards located in front of the Boathouse have been cleaned and installed



with black painted hardware. The bollards are painted black, with some bollards rusting and peeling. The supplier and manufacturer of the bollard is unknown.

**Figure 18: Fluted Bollard**



**Recommended Repairs:**

It is recommended to monitor the bollards as the structure of the bollard is in good condition. The mounting hardware should be replaced with galvanized steel hardware to prevent further rusting and impact to the structure of the bollard. Over time, the bollards should be replaced to be consistent throughout the park with other bollards and site furnishings, creating a cohesive site furnishing look and feel.

**Figure 19: Fluted Bollards In-Front of Boathouse**



**4.1.3.6.2 Post Guard Blue Reflective Striped Bollards**

**Current Conditions:**

This bollard is a permanent stop post (hot-dip galvanized bollard) 100 millimetres O.D. x 188” wall HSS tube, surface mounted with a blue bollard cover c/w white reflective tape. The bollard is located predominantly near crosswalks with roadways and major trail intersections.

**Figure 20: Post Guard Blue Reflective Striped Bollards**



**Recommended Repairs:**

The surface mounting on the bollards is rusting and should be replaced to maintain the structural integrity of the bollards. The bollard cover is to remain blue to be consistent with the Region of Waterloo’s cycling and trails standards.

**4.1.3.6.3 Pressure Treated Round Timber Bollards**

**Current Conditions:**

The pressure treated round timber bollards located along Devon Street are approximately 500 millimetres in height. The bollards are direct buried and have weathered over time.

**Figure 21: Timber Bollards**



**Recommended Repairs:**

It is recommended to remove the bollards. They appear to have been used to keep vehicles from being parked on the grassed boulevard before trees were established. To keep vehicles off the grassed boulevard it is recommended to replace the timber bollards with large boulders or armour stone, strategically placed to prevent vehicle traffic and can



also be used as seating opportunities. The boulders or armour stone are easy to install, durable and natural. Instead of installing uniformly sized barriers at a consistent spacing along the streetscape, the barriers could be enhanced through the selection of various sized boulders and placing them in an irregular pattern that mimics natural patterns.

#### **4.1.3.6.4 Timber Bollards**

##### **Current Conditions:**

Located in front of the Boathouse at the pedestrian crossing there are two wooden bollards. The bollards are located within the grassed boulevard below and beside the pedestrian crossing sign and the maximum 30 kilometre traffic sign. The wooden bollard has a chamfered top with recessed strip approximately 200 to 300 millimetres below the top.

**Figure 22: Timber Bollards at Boathouse**



##### **Recommended Repairs:**

The bollards have settled over time, leaving the two at different heights. The bollards are remaining from the original timber bollard installations in front of the boathouse prior to 2009. They are no longer providing a functional use in their location and no longer match other bollards within the park. It is recommended to remove the two bollards if there is not a functional reason for their installation at this location.

**Figure 23: Timber Bollards at Boathouse April 2009 (Google Streetview Image)**



#### 4.1.3.6.5 Metal Skinny Bollards

##### Current Condition:

The recently installed bollards are 1.96 centimetres in height, located in front of the heritage bridge. The bollards are direct buried into the existing pathway connecting to the bridge. Each bollard has 4 pieces of yellow reflective tape and a terminal post cap on the top. The bollards are placed slightly wider than the width of the bridge and approximately 0.5 metre offset from the flagstones and armour stones that border the bridge approach.

**Figure 24: Metal Skinny Bollards**



##### Recommended Repairs:

The bollards were installed in the spring/summer of 2024 and do not require any repairs now. It is recommended that any future bollards installed, are co-ordinated with existing



bollards already installed throughout the park for a cohesive look and to assist with maintenance, repairs and replacements of park infrastructure and parts.

### 4.1.3.7 Commemorative Plaques

#### 4.1.3.7.1 Tuhbenahneequay (1780-1873) Memorial Plaque

##### **Current Condition:**

Located on a rock adjacent to the Day of Mourning memorial between the pavilion building and Bridge #1117 (bridge near the canoe monument), a plaque has been installed to recognize Tuhbenahneequay, her life and her connection to the park at the turn of the nineteenth century. The plaque is not integrated into the park, and it easily goes unnoticed along the pathway as it is located low to the ground on a large boulder, adjacent to a shrub.

**Figure 25: Tuhbenahneequay Memorial Plaque**



**Figure 26: Location of Tuhbenahneequay Plaque**



##### **Recommended Repairs:**

It is recommended to have the plaque located off the ground to increase the visibility and recognition of Tuhbenahneequay. The plaque should be located 450 millimetre – 600 millimetre off the pathway. Increasing the height of the plaque allows the plaque to

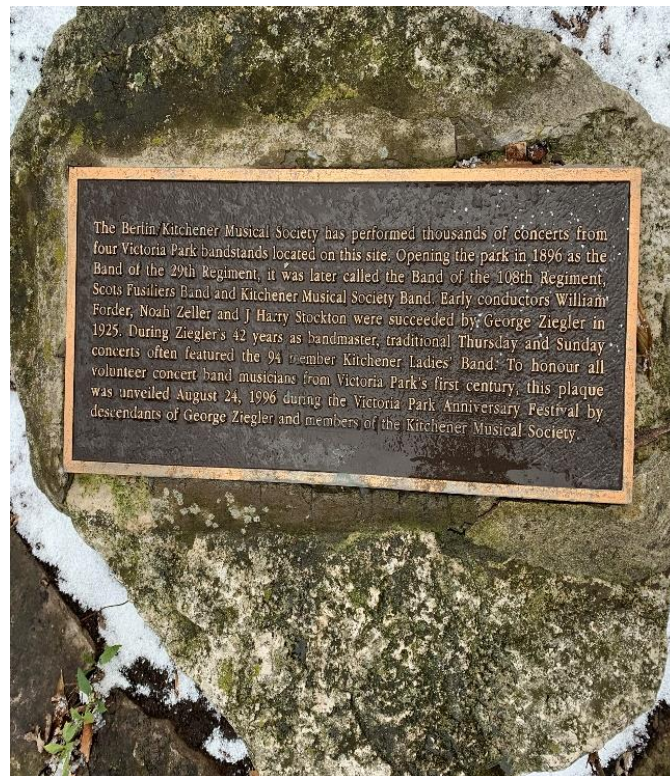
be protected from snow and salt damage and reduce the chance of someone tripping over the plaque. The increased height of the plaque also provides the opportunity to incorporate a small commemorative garden or ground cover planting around the sign.

#### **4.1.3.7.2 Berlin Kitchener Musical Society**

##### **Current Condition:**

A plaque has been installed commemorating the Berlin Kitchener Musical Society, located on a larger boulder adjacent to the Kitchener Rotary Band Stand on Roos Island. The bronze plaque has been replaced with an aluminum replica of the original bronze plaque that was vandalized. The plaque is clearly visible as visitors approach the band stand and the surrounding gardens, although the plaque could be emphasized through the addition of vegetation to draw the eye to the area.

**Figure 27: Berlin Kitchener Musical Society Plaque (2023)**





**Figure 28: Location of Berlin Kitchener Musical Society Plaque**



**Figure 29: Rotary Club Donor Plaque (2024)**





### **Recommended Repairs:**

The plaque has been incorporated into the updates completed on Roos Island in 2024, allowing for clear visibility within the garden as you approach the band stand. The rock that the plaque is located on has also been cleaned during the Roos Island renovations. The plaque was replaced in 2024 with a non-bronze plaque after it was stolen. If salt is used on the pathways on the island, it increases the probability for the plaque to be damaged. Raising the plaque can increase the legibility and allow for all users to easily read the sign. The increased height of the plaque also allows for plantings to be located around the base of the plaque and provide enhancement opportunities for the garden creating year-round interest through colour and texture.

#### **4.1.3.7.3 Christmas Fantasy of Lights**

##### **Current Condition:**

The City has added a commemorative plaque to acknowledge the organizations that have continually contributed to the construction and maintenance of the Christmas Fantasy of Lights. The plaque is located on a small concrete pad under a coniferous tree across the road (Jubilee Drive) from the Boathouse, along Jubilee Drive. The bronze plaque consists of a black background and faded gold trim and text.

**Figure 30: Christmas Fantasy of Lights Plaque**



**Figure 31: Location of Christmas Fantasy of Lights Plaque**



**Recommended Repairs:**

This plaque is the most hidden plaque due to its location under a coniferous tree. The plaque is regularly covered in pine needles, leaves and debris reducing the chance of it being identified. When a commemorative plaque is installed, it should be easily seen so the individual(s) are properly recognized by the community. Each plaque should be in an area that is relevant to the person, organization or event that is being recognized. The plaque should be in an area that is regularly used for the Christmas Fantasy of Lights event, to connect and provide recognition in an area that displays the holiday lights.

**4.1.3.7.4 Victoria Park Entrance Project**

**Current Condition:**

The stone entrance feature at the Gaukel Street entrance welcomes visitors to the park and has a memorial plaque installed on the stone facade. The bronze plaque is black with a gold border and gold text commemorating the completion of the park entrance in July of 2008.



**Figure 32: Victoria Park Entrance Project Plaque**



### **Recommended Repairs:**

The plaque does not require maintenance or replacement at the time of inspection. It is built into the stone entrance feature and is clearly visible as you enter the park off Gaukel Street. It can be monitored in the future to ensure regular maintenance is addressed, reducing the chance of damage or full replacement in the future. If other plaques within the park are updated, it would be recommended to update this plaque to ensure consistency throughout the park.

### **4.1.3.7.5 Crimson King Plaque**

#### **Current Condition:**

The Crimson King plaque is located on a large stone located under a crimson maple tree located to the northeast of the Boathouse and across the pathway from the Decorative Pavilion (pergola 1 in the Building Condition Assessments) The bronze plaque embedded in the stone is dedicated to the marriage of H.R.H. The Prince of Wales and Lady Diana Spencer.

**Figure 33: Crimson King Plaque**





**Figure 34: Location of Crimson King Plaque**



**Recommended Repairs:**

Located on a large stone under a Crimson Maple tree, the plaque is located off the ground reducing the chance of salt damage from the trail. The overall plaque is difficult to read due to the size of the font and the height of the plaque mounted on the stone. To enhance the message of the 'Crimson King', the area around the plaque and tree could incorporate crimson maple leaves printed into the pathway or printed onto a commemorative plaque made of formed aluminum or galvanized steel through laser cut or engraving.

**4.1.3.7.6 Victoria Park & Schneider Creek Improvements Plaque**

**Current Condition:**

Located near the intersection of Roland Street and David Street is a bronze plaque documenting the completion of a major section of the Schneider Creek stormwater management project in 1985. The plaque location is not clearly visible due to the height level and location adjacent to the pathway. The plaque was stolen in late 2024 and has not been replaced.

**Figure 35 Victoria Park & Schneider Creek Improvements Plaque (December 2023)**



**Figure 36: Plaque Stone without Plaque (November 2024)**



### **Recommended Repairs:**

Due to the location and orientation of the plaque, located adjacent to the pathway but almost flush with the ground, the plaque is not easily seen or recognized within the park. It is located on the other side of the path away from the Schneider Creek stormwater infrastructure. The opportunity to have the plaque located along the railing at the stormwater outlet, can direct the user towards the water, visually recognizing the work that was completed to make the pond. There is also opportunity to include informational signage in this area explaining the work completed to create the pond and the



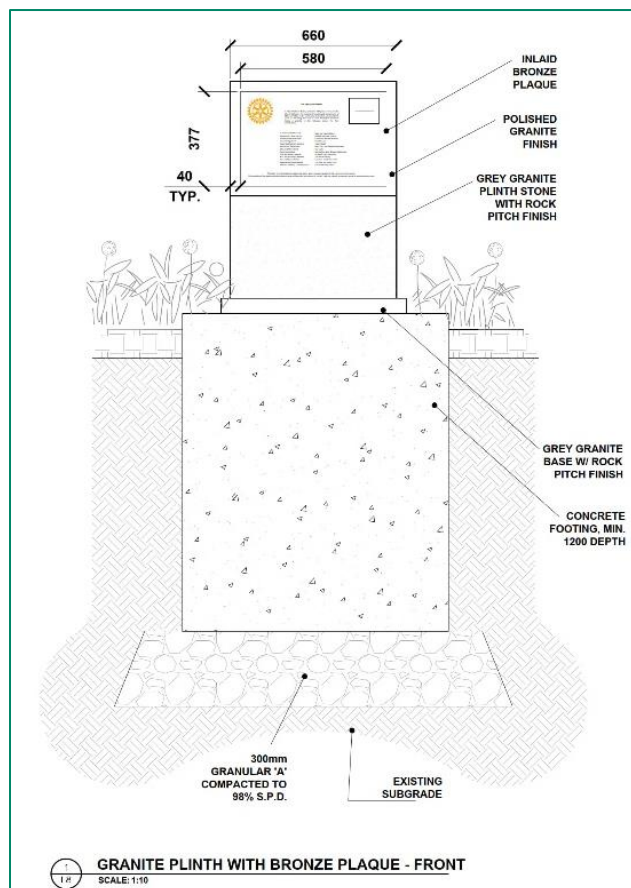
stormwater infrastructure. The plaque should be replaced with material that is less desirable for theft and vandalism resistant.

**Figure 37: Existing Location and Plaque Re-Location**



#### 4.1.3.7.7 Rotary Club Donor Plaque

**Figure 38: Granite Plinth with Bronze Plaque Construction Detail**



**Figure 39: Rendering of the Granite Plinth to Be Installed**



**Current Condition:**

It is to be located within the planting island in front of the band stand between armour stone seating. The bronze plaque is planned to be inlaid within a grey granite plinth stone consisting of a polished finish on the top and a rock pitch finish on the remainder. The landscape improvements impacting the band stand and the Rotary Club Donor Plaque, that were included in the scope of work completed in 2024 as part of the Victoria Park Band Stand Improvements (Q24-003) included, but were not limited to:

- Grading works
- Asphalt trail upgrades
- Site furnishings, including 2 benches and concrete pads adjacent to the band stand
- Donor bronze plaque on natural stone monument for Rotary Kitchener
- Perennial plantings and mulch around the band stand and donor plaque
- Armour stone seating and retaining walls around planting beds

**Recommended Repairs:**

N/A, it has not been installed at the time of the report inspections. The plaque is scheduled to be installed in 2025.

**4.1.3.7.8 Overall Commemorative Plaque Recommendations**

Due to the City of Kitchener experiencing vandalism and theft of the commemorative plaques, it is recommended to investigate alternative materials that are less desirable to

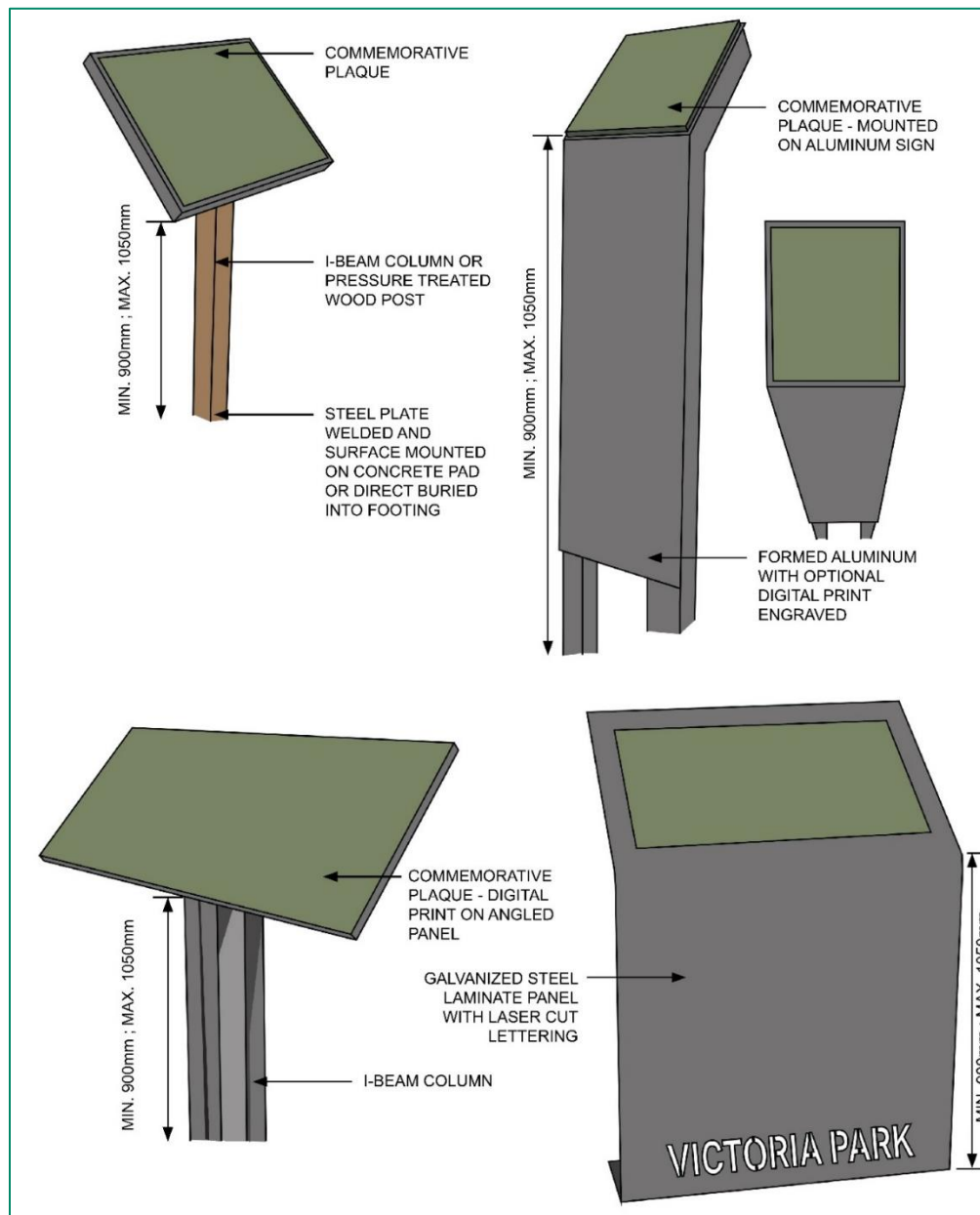


thefts and easier to clean. Possible material that can be used for the plaque can include hardened steel, core aluminum and fiberglass. The commemorative plaque can be mounted using an I-Beam column surface mounted using a steel plate welded to the I-Beam and mounted using tamper proof bolts, or wooden posts set in concrete footings. Another option would be to have formed aluminum structures or galvanized steel laminate panels. The structures and panels have the option to include laser cut lettering or digital images engraved.

The placement of the signage should be setback 450 millimetre minimum, preferably 600 millimetre. The height of the signage should be a minimum of 900 millimetre from finished grade to a maximum of 1050 millimetre to the bottom of the signage if angled at a 45-degree angle. The placement of the signage should be clearly visible to park users. There are multiple commemorative plaques throughout the park that are not clearly visible unless you are looking for them. The plaques are recognizing key members of the community that have contributed to the development and character of the park, but they are hidden along the pathway on ground level, behind park elements and under overgrown shrubs. The plaque should be in a well-lit area and should be clear of overgrown vegetation. Vegetation can be used to create a visual emphasis on the plaque, but it should not obstruct the view of the plaque. The signage should also have a braille strip located along the edge of the sign and raised or route letters to assist the visually impaired.

The plaques should be an experience of wandering through the park and discovering different areas of the park that are relevant to the signs/plaques. The experience of wandering through the park to discover the history and character of the site can draw users into the park and provide opportunities to connect to the community, increase pedestrian circulation and trails, and increase occurrences of events and tours throughout the park.

**Figure 40: Commemorative Plaque Options**



### 4.1.3.8 Gates (Pedestrian) and Entry Features

#### 4.1.3.8.1 Pedestrian P-Gates

##### Current Conditions:

Throughout the park there are 9 pedestrian p-gates located at key intersections of pedestrian pathways and roadways. The gates have welds that have broken, the main structures appear to be loose, and there is rust that is accumulating on the gates,

especially around the base. The pedestrian gates are surface mounted onto concrete pathways. Overall, the pedestrian p-gates are in fair condition.

### **Recommended Repairs:**

The pedestrian p-gates should be monitored for future rust and damage. The bolts should be replaced with stainless steel bolts, nuts and flat washers to reduce further chance of rust and prolong the overall lifespan of the structures. If the bollards throughout the park are updated, the p-gates should be updated to a similar style for a consistent look and can simplify maintenance if the same family of furnishing is used.

#### **4.1.3.8.2 Entry Features**

##### **Current Conditions:**

##### **Jubilee Drive and Devon Street**

At the intersection of Jubilee Drive (where it changes to Park Street) and Devon Street there are two 12-course high rock face natural stone entrance piers built on concrete footings. The two stone entrance piers are in good condition with minor damage to the bottom of the eastern pier. The concrete coping stone on each of the entrance piers appears weathered but are still in good condition. The globe light with decorative metal base affixed to the top of the concrete cap appears to be weathered slightly. The stonework and jointing of the entrance piers is in good condition.

**Figure 41: Entry Feature at Jubilee Drive and Devon Street**



##### **Jubilee Drive and David Street**

The two stone piers at Jubilee Drive and David Street are key features at one of the main entrances into the park. This is also one of the busiest vehicular entrances to the park. These stone mosaic piers have detached curved knee walls with elevated foundations. A pedestrian sidewalk runs between the piers and the knee walls, complemented by surrounding plantings. Each mosaic pier displays four concrete signature stones—one on each side below the concrete cap—and is topped with a concrete coping stone fitted with a globe light on a decorative metal base. On the interior side of the piers, adjacent to Jubilee Drive, a small metal eyehooks, a small metal eyehook on each pier likely once secured a string or chain barrier to restrict vehicular access. Evidence of past restoration, such as repointing, is visible on the piers and knee walls; however, multiple sections of the curved knee walls show missing mortar between the capstones and the wall. Furthermore, the placement of the piers relative to vehicular traffic creates a blind spot that poses a hazard to pedestrians crossing Jubilee Drive.

**Figure 42: Jubilee Drive and David Street Entrance Features**



### Schneider Avenue

At the Schneider Avenue connection to Victoria Park there are two fieldstone veneer piers built on concrete foundations. The piers appear to have been constructed prior the road and curb installation as the curbs have been cast around the piers. The width of the road is also reduced between the piers as they are situated partially within the asphalt roadway, indicating they were installed prior to the current road installation and configuration. As a result, the clear width of the road is not wide enough for two vehicles to comfortably fit between the piers. The width of the roadway on the park-side is less than the width of the road on the residential side of Schneider Avenue creating a bottleneck between the piers entering and exiting the park. Adjacent to the piers is one electrical cabinet inlaid near the base, the integrity of the electrical components is unknown at the time of inspection. On the interior roadside of the piers is one metal ring per pier that appears to have been used to attach a string or chain barrier to restrict vehicular access to the park from Schneider Avenue. On the top of each pier, affixed using base plate and bolts is a large globe light. The globe lights are affixed to the cap of the pier that is fabricated using fieldstones. The



fieldstones are installed using a similar method to the rest of the pier structure. The piers have evidence of restoration through repointing.

**Figure 43: Entry Feature at Schneider Avenue**



### **Dill Street**

The entrance at Dill Street includes two split-face fieldstone veneer piers on concrete foundation flush with asphalt paving. The piers have been constructed prior to the road reconstruction resulting in the curbs being cast around the piers and the width of the road bottlenecked between the piers as they are situated partially within the asphalt roadway. Due to the roadway narrowing between the piers, it is not wide enough for two vehicles to fit between the entrance piers. On the interior side along the roadway, each pier has a metal ring that appears to have been used to attach a string or chain barrier to restrict vehicular access to the park from Dill Street. The top of the structures have one large globe light per pier that is affixed to the sandstone cap using base plate and bolts. The cap is constructed using limestone blocks, filled with concrete and topped with a limestone piece where the light is bolted to. There is evidence of past restoration through repointing.

**Figure 44: Entry Feature at Dill Street**



### **Water Street**

Where Water Street connects to Jubilee is a busy intersection into the park with an abundance of traffic that flows through the park at various times throughout the day. The connection consists of two rock-faced limestone brick veneer piers that are eight courses high. The piers have a concrete coping stone with decorative planters situated atop that are planted seasonally. The piers have embedded footings and convex joints.

**Figure 45: Entry Feature at Jubilee Drive and Water Street**





## Joseph Street

The Joseph Street park entrance is the largest entrance feature throughout the park, and it is for pedestrian access only. The feature consists of four natural stone piers and walls. The southeast entry pier and knee wall has a coping stone, sloping up to the pier on the west side. To the west of this, there is a waist-height wall with coping stone and a concrete inlay for “Victoria Park” along the street frontage. Further to the west, there is a knee wall with one pier on each end and a sloped coping stone connecting these on either end. The fourth feature of the Joseph Street entrance located furthest to the west is a knee wall with a coping stone. While at the time of our investigation the stone was still on the wall, it appeared to be dislodged, creating a likely safety hazard. The top of each pier has four signature stones, one on each side.

**Figure 46: Entrance Feature at Joseph Street – Streetview**



**Figure 47: Entrance Feature 1 at Joseph Street**



**Figure 48: Entrance Feature 2 with park Name at Joseph Street**



**Figure 49: Entrance Feature 3 at Joseph Street**



**Figure 50: Entrance Feature 4 at Joseph Street**





### **Recommended Repairs:**

The general recommendation is to raise the foundations above grade for each structure, to better mitigate salt and ice related deterioration, while ensuring overall character is maintained. This recommendation should be applied when replacing the existing structures or adding new ones in the future. Additionally, annual inspections are advised to monitor mortar degradation and damage caused by salt or vehicular impacts, with assessments ideally conducted in late spring to identify any winter-related damage from salt or snowplows. Finally, the coping stone on the fourth structure at the Joseph Street entrance should be reinstalled immediately to prevent further deterioration and eliminate safety hazards related to potential detachment.

### **4.1.3.9 Signage**

#### **4.1.3.9.1 Parking & Park Signage**

##### **Current Conditions:**

There are various parking lots with accessible parking and parking requirement signage throughout the park. The signs are made from powder-coated, corrosion-resistant aluminum with rounded corners mounted on a u-channel signpost. In addition, there are signs throughout the park stating regulations regarding water safety, winter maintenance, and guidelines for 'stoop and scoop'.

##### **Recommended Repairs:**

Overall, the signs are in good condition. A few of the signposts appear to have been hit and are angled. It is recommended that those posts be straightened and reinstalled if required to ensure the sign is visible.

#### **4.1.3.9.2 Information Signage**

##### **Current Conditions:**

Victoria Park has multiple information signage located throughout the park that consists of an infographic sign mounted at a 45-degree angle on an embedded steel post. The information signage includes signs for *Please Do Not Feed the Ducks, Gulls & Geese*, and *Victoria Park Lake: Beyond Its Beauty*.

**Figure 51: Please Do Not Feed the Ducks, Gulls & Geese**



### Figure 52: Victoria Park Lake: Beyond Its Beauty



### **Recommended Repairs:**

The signs are in good condition. Accessing the signs can be difficult over the grass as there is not a direct accessible path that is directed towards the signs. As a result of the signs located off the path, it is recommended that an accessible path be provided so that all users can access the signs.

#### **4.1.3.9.3 Playground Regulation Signs**

##### **Current Conditions:**

Adjacent to the playground, signage with the *Rules of Use* for the playground is installed on a u-channel signpost. The sign has been bolted onto the post and allows for the city to adjust the sign and update as required.

##### **Recommended Repairs:**

The sign should be monitored to ensure that it is in good condition and is clearly legible. It should be reviewed to ensure that the sign is at a height that is legible for all users and that the information on the sign is provided in a variety of visual options to ensure it is understood by everyone. The visual options that could be included graphic visuals, high contrast text, and raised letters. The sign should be in a spot that has good lighting and avoids shadows, glare, and vertical wording.

##### **Overall Recommended Repairs:**

**The signage throughout the park should create an identifiable character for the park. It should form part of a wayfinding system that is legible, cohesive and incorporates the City of Kitchener branding for Victoria Park. The park's overall wayfinding should be refined through a master plan to ensure a cohesive design approach and to apply consistent theme and appearance. The overall mounting, size, height and shape of the signs should be standardized and refined together with maintenance considerations.**

#### **4.1.3.10 Statues, Monuments and Art Features**

##### **4.1.3.10.1 Day of Mourning**

##### **Current Conditions:**

The Day of Mourning stone monument was installed on April 28, 1993, by the United Rubber Workers Local 80, in recognition of all men and women who have been killed or disabled by injury or disease in the workplace throughout Canada. The stone monument is surrounded by vegetation at the corner intersection of a main pathway through the park between the pavilion building and bridge number 1117 (bridge located near the canoe memorial).



**Figure 53: Day of Mourning Monument**



**Recommended Repairs:**

The Day of Mourning stone monument is in good condition and is easily visible. The garden around the monument should be improved by augmenting the planting varieties for all-season interest through colour and textures. The stone monument should be cleaned periodically to ensure a longer lifespan of the monument.

**4.1.3.10.2 The Canoe**

**Current Condition:**

Adjacent to 1117 Victoria Park Lake Pedestrian Bridge number 3, there is an art piece called “The Canoe”, installed in 1997. The aluminum canoe has been placed to evoke a ride through the grassy waves of Victoria Park. The landscape surrounding the canoe has been graded to create the grassy waves. The interior of the canoe has been designed with mirror-polished stainless steel to reflect the sky, contributing to the canoe becoming a vessel that reflects the environment. (Public Art\_The Canoe, n.d.) Adjacent to the canoe, closer to the pedestrian trail was a bronze plaque with the project name (“The Canoe”), artist (Brian Scott) and commissioning information (Commissioned through a national public art competition). The plaque has since been stolen in late 2024 and was not replaced at the time of inspection. The bottom right corner of the

concrete base for the plaque has a piece of rebar curved over the concrete which can cause a tripping hazard.

**Figure 54: “The Canoe” Sculpture Plaque**



**Figure 55: “The Canoe” Sculpture**





**Figure 56: Canoe Plaque Location (November 2024)**



**Recommended Repairs:**

“The Canoe” art installation plaque was located on a stone placed flush with the ground. Unfortunately, this was reported stolen by the City of Kitchener in late 2024, leaving behind a small concrete base with a rebar protrusion that has become a tripping hazard. The former location and orientation of the plaque was too obscure and easily missed.

This unfortunate event can serve as an opportunity to re-evaluate the installation. It is recommended to consider relocating the plaque and upgrading its materials to a vandal-resistant option—such as anodized aluminum or a durable composite—that is less attractive to theft. Additionally, enhancing visitor engagement by incorporating a digital display or a discreet QR code, which links to a concise, interpretive description of the artwork, can enrich the overall experience. This contemporary approach not only improves safety and durability but also deepens the contextual narrative for visitors.

**4.1.3.10.3 Peace Monument Pedestal**

**Current Condition:**

The Peace Memorial was re-erected in Victoria Park by members of the German Canadian Business and Professional Association (GCBPA) in 1996 to honour a piece of Kitchener’s history and the centennial anniversary of Victoria Park. In replacement of the missing bust of Emperor William 1<sup>st</sup>, the GCBPA facilitated the installment of a bronze plaque on one side of the pedestal to memorialize the history of the bust-less monument. The pedestal is located along the pathway between the boathouse and the intersection of Jubilee Drive and David Street.



**Figure 57: Peace Monument Pedestal**



**Figure 58: Peace Monument Plaque**



### **Recommended Repairs:**

The monument pedestal and plaque are in a good spot within the park, located along the pathway. The location allows users to step off the path and not disrupt the flow of traffic, while having the space to read the plaque and pause to understand the meaning.

#### **4.1.3.10.4 In Loving Memory**

##### **Current Condition:**

The trail connecting to the Pavilion parking lot from the northeast side has a sensory garden, and one of the larger coniferous trees has a galvanized steel memorial plaque. The memorial plaque can be seen when walking through the garden towards the parking lot.

**Figure 59: In Loving Memory**



### **Recommended Repairs:**

The sign is clearly visible on the tree and is easy to read, but it is only visible through one direction along the path. Additional ways to ensure the sign is visible from all directions along the path could be investigated. The sign is in good condition and appears to have been installed recently.

#### **4.1.3.10.5 Sue's Japanese Garden**

##### **Current Conditions:**

Adjacent to the Pavilion parking lot is the Japanese Garden with a stone upon which the garden name is engraved. The stone is easily overlooked due to falling leaves and debris in autumn. The garden does include additional sculptures and elements that correlate with the Japanese Garden. The garden is located to the northeast of the



pavilion building directly off the path connecting the parking lot to the main park pathway.

### **Recommended Repairs:**

The Japanese Garden is not a well-known part of the park, it is a smaller area located near the pavilion building directly off the path. The fountain within the Japanese Garden is fed through underground water lines and does not use recycled water but instead runs constantly when turned on. The fountain is no longer used as intended and has not been operated for years, according to City operation staff. To increase the use of this area, the fountain could be updated to use recycled water and allow it to be used during the warmer months. Additional signage could be installed to increase awareness of the garden and draw people into the area.

#### **4.1.3.10.6 Sensory Garden**

### **Current Conditions:**

The sensory garden was a project of the Kitchener Citizen Beautification Committee completed in May of 1999. The garden consists of a variety of perennials and grasses and ornamental stones placed throughout. An embossed granite plaque on black HSS post direct buried in the garden area states the group responsible for the Sensory Garden. This information is also available in braille on the plaque.

**Figure 60: Sensory Garden Sign**



### **Recommended Repairs:**

Increasing the maintenance of the plant materials within the garden area could increase the use of the sensory garden. An additional recommended upgrade to the area would



be to include pedestrian level lighting along the pathway adjacent to the sensory garden to increase visibility and safety outside of daylight hours. This would also allow for the garden to be used more frequently during days that are shorter and do not have as much natural light.

#### **4.1.3.10.7 Classic Cannons**

##### **Current Conditions:**

The park has two classic cannons with one located on Roos Island overlooking Victoria Lake and the other located at the base of the Queen Victoria statue. The cannons are some of the oldest items within the park.

**Figure 61: Cannon at Queen Victoria Statue**



**Figure 62: Cannon on Roos Island**



##### **Recommended Repairs:**

The stone and concrete bases of the cannons require structural repairs or complete replacement. The cannons appear to be in good condition, with a few paint spots that can be cleaned off. A sign or plaque could be located near the canons to provide

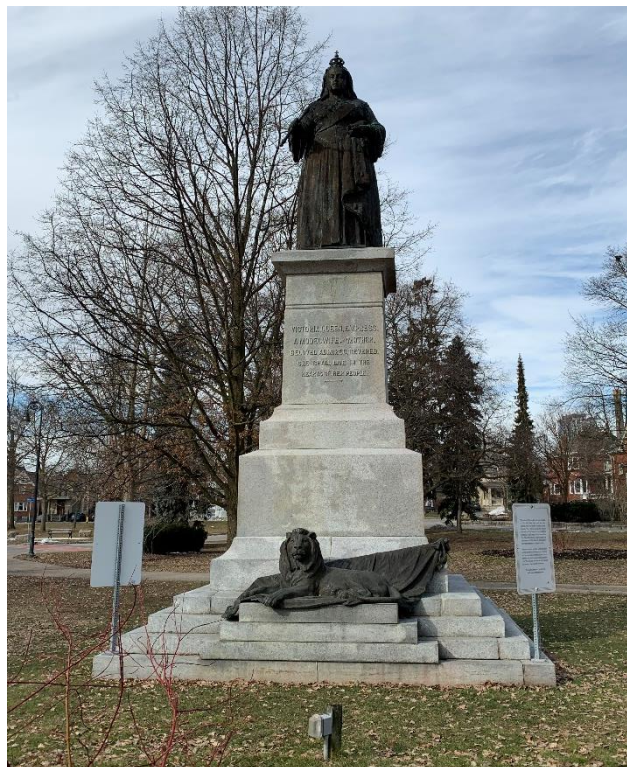
historical information about them and their significance to the City of Kitchener. Additional lighting could be added to highlight the canons at night.

#### **4.1.3.10.8 Queen Victoria Statue**

##### **Current Conditions:**

The Queen Victoria statue was installed in 1911 along Jubilee Drive. The statue consists of a stone structure with a bronze Queen Victoria sculpture and lion sculpture at the base. The commemorative monument was created by artist Raphael Zaccagnini (or Zaccaquini) and commissioned by the Imperial Order of Daughters of the Empire (IODE), a national women's charitable organization in Canada, in 1909. The statue and accompanying lion were unveiled in May 1911 by Governor-General Earl Grey. (Public Art - Queen Victoria, n.d.) At the base of the statue are two metal signs recognizing the history of colonialism in Canada and provides a link for more information that visitors can visit to learn about what is being done with the statue.

**Figure 63: Queen Victoria Statue**



##### **Recommended Repairs:**

The Queen Victoria statue is in good condition structurally. The area surrounding the statue does not provide an accessible path to allow park users to walk directly up to the statue. The inclusion of a concrete or asphalt pathway around the statue will allow park users to walk directly up to the statue. Additional vegetation and low growing gardens



could be added around the pathway of the statue to provide colour and all season interest. The statue needs to be regularly cleaned due to increased susceptibility to vandalism and red paint.

#### 4.1.3.10.9 Ex-Industria-Prosperitas Lintel

##### Current Conditions:

Located adjacent to the Clock Tower is a stone monument with multiple names and companies that have contributed to the development of the City. The lintel at the top of the structure reads *Ex industria prosperitas* in Latin, meaning 'Prosperity through Industry'. The lintel was originally mounted in the former City Hall and carries the City's motto. The monument includes a dedication for the Clock Tower, a list of construction participants, donors, the project co-ordination team, and a picture of the old City Hall with the Clock Tower located on top.

**Figure 64: Ex-Indvstria-Prosperitas Lintel**



##### Recommended Repairs:

The lintel is in good condition, with no visible damage or cracks, although some of the writing on the lintel has become difficult to read. Investigating ways to improve legibility on the lintel would be beneficial and allow users to clearly read the names and information provided.



#### 4.1.3.10.10 The Luggage Project

##### **Current Conditions:**

The Luggage Project, installed in 2006, includes eight carved sculptures that are modelled after life-sized historic luggage pieces from various time periods. The carved sculptures are located beside the pathways near the Clock Tower and in the fountains near the Gaukel Street entrance. The sculptures were installed as a tribute to the migrants who arrived in the City of Kitchener and have made their homes within the region. (Public Art - The Luggage Project, n.d.)

**Figure 65: The Luggage Project**



##### **Recommended Repairs:**

The carved sculptures are in good condition, a few are weathered and have water marks, that could be cleaned and removed. Some pieces are also missing original bronze luggage tags. Through the City's Art & Creative Industries team, a restoration of these works is scheduled for 2025. The restoration also includes a possible relocation of one of the luggage pieces at the Joseph Street park entrance. Most of the sculptures are located within gardens and water features near the clock tower, however a few of the sculptures are located adjacent to the pathway on grass. The grass is hard to maintain in good growing condition due to pedestrian traffic. Pathway stones have been placed near the sculptures, but that does not provide a full path to the sculptures. It is recommended that a larger concrete base should be placed under the sculptures to improve the ease of maintenance of the area and reduce the need to repair the softscape adjacent to the sculptures and the pathway due to pedestrian damage. The concrete base should allow for a person or two to approach the sculpture and the base should connect to the path providing a smooth transition from asphalt or pavers to the concrete pad.

#### 4.1.3.10.11 Lion Fountain

##### **Current Conditions:**

Located beneath Pergola 1—the decorative pavilion southeast of the Boathouse—the lion fountain is set in a cracked stone basin. The fountain is constructed either of cast iron or cast aluminum with a black paint finish, and it features two lion heads facing southeast and southwest. The concentric pavers around the fountain are mostly covered in dirt and many of them appear cracked or in poor condition. While there is an existing water supply pipe, the fountain was non-operational at the time of the visit.

**Figure 66: Lion Fountain within Decorative Pavilion**



##### **Recommended Repairs:**

It is recommended to remove and reinstate the pavers within the decorative pavilion that surround the fountain. Reinstating the pavers will create a smooth, level surface and reduce the chance of tripping or injury within the pavilion area. If the fountain is to be operational, it is recommended to inspect the mechanical components and repair as required. The stone basin structure should also be repaired to reduce the chance of the stones breaking off and creating a safety hazard. The lion fountain structure appears to



be in good condition but has moss/fungus growing on it. It is recommended to clean the fountain and apply paint touch ups as required.

**Figure 67: Lion Face on Fountain**



### **4.1.3.11 Waste Receptacles**

#### **4.1.3.11.1 Concrete Ash Urn**

##### **Current Conditions:**

The concrete ash urn is located near the basketball court and picnic shelter. The bottom of the concrete structure has deteriorated and does not hold the ashes placed within the structure.

##### **Recommended Repairs:**



The recommendation is for the structure to be replaced if the intent is to maintain its functionality for storing fire pit or barbeque ashes. Should the City continue to allow fire pit/barbeque use within the park adjacent to this picnic shelter, consideration should be given to include them in other areas with future infrastructure updates.

#### **4.1.3.11.2 Green Metal Barrel Waste Receptacle**

##### **Current Conditions:**

This moveable waste receptacle allows park staff to move the receptacles to high trafficked areas. The receptacles also allow for easy removal of garbage bags. The receptacles throughout the park are typically painted green, have graffiti or vandalism and are dented and/or rusting.

##### **Recommended Repairs**

The moveable waste receptacle allows for park staff to add additional receptacles during peak times in the park and they can be relocated during events. Due to the receptacles being temporary and not permanent installations within the park, they do not need to be replaced until they are structurally degrading. They can be regularly cleaned to remove graffiti and vandalism and monitored for future damage and rust.

#### **4.1.3.11.3 Molok Garbage Receptacles**

##### **Current Conditions:**

Victoria Park has three sizes of Molok garbage receptacles located through the park consisting of large (Molok Classic three cubic metre), medium (Molok Classic 1.3 cubic metre), and small (Molok Classic 800) receptacles. The Molok structures have autumn brown colour composite slats on the sides and a City of Kitchener standard steel plaque affixed to them. A couple older models of Molok receptacles throughout the park have wood slats on the sides.

##### **Recommended Repairs:**

The Molok receptacles are mostly in good condition, except for a few spots of vandalism and lids with damage to the plastic. The lids can be replaced to ensure the structure is functioning properly and the vandalism can be repaired. One Molok has composite slats falling off or missing due to a missing metal band that holds them in place. This has resulted in nails sticking out that can cause a safety hazard. This should be repaired or replaced to ensure there is no safety concerns to users of the park.

#### **4.1.3.11.4 Metal Decorative Waste Receptacle**

##### **Current Conditions:**

These metal waste receptacles within Victoria Park are surface mounted on a concrete pad. They are made of vertical black metal slats. The waste receptacle is produced by Toronto Fabricating, TFMC style number 922, part of the Uptown Series.

### **Recommended Repairs:**

These metal decorative waste receptacles are in good condition, located adjacent to the pedestrian pathways. The concrete pads are flush with the pathway and have minimal cracking and chipping. The concrete pads can be monitored for future damage and deterioration. The structure of the garbage can is in good condition, although the footings that are surface mounted are beginning to rust on some. These should be monitored to ensure it does not cause additional rusting to the structure.

#### **4.1.3.11.5 Victor Stanley Waste Receptacle**

##### **Current Conditions:**

The Ren Side-Door/Deposit waste receptacle by Victor Stanley is installed on a concrete path along the pathway from Gaukel Street. The trash receptacle has deposit entrances on both sides of the waste receptacle, but only one side is usable along the pathway. The other opening faces into a garden and is not easily accessible by visitors to the park without walking through vegetation. This is the only location where this type of waste receptacle is installed with the park. It appears to be relatively new and in very good condition.

##### **Recommended Repairs:**

The waste receptacle by Victor Stanley was recently installed within the park and is in excellent condition. If possible the receptacle should be rotated to ensure both openings are accessible and can be utilized by users going both direction along the pathway. Only one opening can be utilized now, the second opens towards a shrub adjacent to the receptacle.

## **4.2 Park Utilities**

### **4.2.1 Sue Investigation**

#### **4.2.1.1 Multi-View Work**

Multi-View completed a Surface Utility Engineering (SUE) Quality Level B (QL-B) investigation for the Victoria Park project, dated September 11, 2024, **Appendix G**.

The investigation encompassed the following services:

- A search for existing utility records (SUE QL-D).
- Surveying to indicate the presence of underground utilities (SUE QL-C).
- Utilization of electromagnetic pipe and cable locating systems, alongside associated equipment, to locate and mark underground utilities.

- Located and marked all toneable underground utility mains and services, including electrical, gas, communications, and water lines within the project area (SUE QL-B).

The QL-B scope was limited to specific defined areas, as shown in magenta, in **Figure 68**. The red area had already been surveyed for prior stormwater investigation work.

**Figure 68: MultiView – QL-B Scope of Work Areas**



Multi-View noted the investigation was subject to several challenges, which impacted the completeness and accuracy of some data. These challenges and key considerations are summarized as follows:

- Non-toneable sections of Water, electrical and communications lines
- Traffic and Street Light (SL) utility lines depiction was based on the site investigation only. No records have been collected.
- Overhead utilities are excluded from the scope of the SUE composite drawing.
- No records of service lines were available nor collected. All the depicted service lines included in the composite drawing.

As part of the overall utility assessment, it is important to consider the expected lifespan of the critical utilities within the project area. In Ontario, the lifespan of sanitary, storm, and watermain utilities typically ranges from 50 to 100 years, depending on factors such as material, installation methods, and environmental conditions:



- **Sanitary Sewers:** Typically, last 50 to 100 years, but older clay or cast-iron systems may require more frequent maintenance.
- **Stormwater Systems:** Usually last 50 to 100 years, though increased rainfall may require system upgrades.
- **Watermains:** Generally last 60 to 100 years, but older cast iron pipes may corrode and need earlier replacement.

Additionally, during a site visit conducted by AECOM, on-site staff indicated that certain areas, particularly near the Operations and Maintenance (O&M) building, may not be suitable for camera inspections due to debris and blockages in the service lines.

To assess the condition of these pipes and identify potential issues, CCTV inspections are highly recommended for early detection of cracks, blockages, or root intrusion.

## 4.2.2 Electrical Services

### 4.2.2.1 Site Lighting

There are three types of lighting fixtures found in Victoria Park. Round globes line all pathways, Valmont poles provide area lighting and Victorian globes provide streetlighting. Valmont continues to make these products. All lighting fixtures appear to be in good to fair condition. In 2020, all pedestrian scale light standards along pathways were retrofitted from metal halide to LED to improve efficiency. Regular inspection is required to maintain the condition and ensure any burnt out lightbulbs are replaced.

#### 4.2.2.2 Building Electrical Services

There are eleven buildings on site. Of these eleven buildings, eight have electrical distribution panels and associated components.

The Clock Tower has the original distribution panel, which puts the age at 29 years. It appears to be in good condition, advised to be inspected for replacement in 2035.

The Comfort Station on Jubilee has electrical components installed ten years ago. These items are in good condition and should serve the building past 2050. Interior lighting consists of LED's installed in 2017 that are in good condition and have an estimated useful life of 25 years.

The electrical equipment in the seasonal comfort station, also known as Teen Town, was installed in 1990. The panel and breaker switch appear to be in acceptable condition. Consider inspecting in 2030 and replacing if condition worsens. The interior lighting fixtures were replaced in 2020 and are in good condition.

The original Front Garage main disconnect and lighting panel 2 disconnect appear to have been replaced at some point. With a lifecycle of 40 years, these should be operable until 2050. All other disconnects and panels are original and should be

replaced by 2035. The interior lighting is strip LED, indicating the original lighting has been replaced sometime in the past 10 years. With a normal lifecycle of 20 years, these should be replaced 10 to 15 years from now.

The Machine Shop has original 1958 electrical components. These are in poor condition and should be replaced as soon as possible. It is recommended that the interior lighting be replaced with LEDs to improve energy efficiency.

The Rink Shack has a lighting panel, estimated to be original to the 1975 building. The lights were upgraded to LED in 2020. Consider replacing the panel within five years as it has passed its expected life of 40 years.

The Summer Kitchen has a distribution panel original to the building giving it an installation date of 1965. This panel should be replaced as it is past its useful life. The interior lighting should also be replaced with LED as they are in poor condition, and this will increase the energy efficiency of the building. There is a fire alarm panel in the building that should also be replaced as it is in poor condition and dated.

The Utility Shed has six disconnects and one distribution panel. Although there is some vandalism to the component's exterior, the component appears to be in good condition. All items should be replaced at the end of their useful life in 2040.

#### **4.2.2.3 Recommended Repairs**

See below for summary of recommended repairs for Building Condition Assessment reports for electrical items required in the next ten years with costs associated. Costs and years listed below are original to the reports (completed in 2022) and include soft project costs, unless noted otherwise. In some cases, less critical repairs have been omitted here and can be found in the original Building Condition Assessments. Recommended repairs of significant value within the next 10 years are shown below.

##### **Clock Tower**

1. Review the lighting and consider upgrades to LED fixtures when replacement is needed (3-10 years), at a cost of \$32,560 (2025).
2. Replace fire panel at a cost of \$7,400 (2022).

##### **Victoria Park Band Stand**

1. The Building Condition Assessments by WalterFedy recommended to replace ceiling pot lights with LED fixtures at a cost of \$5,550 (2030).

The electrical improvements completed in 2024 as part of the Victoria Park Band Stand Improvements (Q24-003) included, but were not limited to:

- The inclusion of a stainless cabinet and concrete pedestal for consolidating panel and electrical elements for the band stand use

- Two additional GFI outlets mounted to the lower skirting of the band stand
- A pull box installation for junction within planting bed adjacent to the band stand
- The upgrade of pot lights to LED elements
- The incorporation of LED up-lights around inside edge of band stand ceiling structure

#### **Victoria Park Comfort Station (Teen Town) – Jubilee**

1. Update security system at a cost of \$7,400 (2029).

#### **Victoria Park Comfort Station – Seasonal**

1. Replace exterior fixtures with LED at a cost of \$14,800 (2022).

#### **Victoria Park Front Garage**

1. Replace main electrical switch, \$7,400 (2022).
2. Replace summer kitchen disconnect switch, \$2,220 (2022).
3. Replace splitter, \$7,400 (2022).
4. Replace cabinet meter, \$3,700 (2022).
5. Upgrade to LED lighting, \$27,750+\$7,400 (2023).
6. Addition of 360-degree surveillance cameras, \$10,000 (2023).

#### **Victoria Park Machine Shop**

1. Replace splitter, \$7,400 (2022).
2. Addition of 360-degree surveillance cameras, \$10,000 (2023).

#### **Victoria Park Rink Shack**

1. Replace LP2 panel, \$7,400 (2025).

#### **Victoria Park Summer Kitchen**

1. Replace distribution panel, \$6,660 (2022).
2. Upgrade T12 fixtures to LED lighting, \$9,990 (2022).
3. Replace main fire panel, \$3,700 (2022).

## **4.2.3 Building Mechanical Services**

### **4.2.3.1 General**

AECOM's mechanical engineer has completed a desktop review of draft Building Conditions Assessments written by WalterFedy. The sections below summarize our findings in the reports and provide recommendations for each building.



The recommendations have been broken down by building and by sub-category: Heating, Ventilation, and Air Conditioning (HVAC), Plumbing, and Fire Protection.

There are a total of 12 buildings/structures onsite however only seven of which include mechanical services. Refer to the table below for the buildings/structures that were addressed in the WalterFedy Building Condition Assessments, as well as this report.

| Building / Structure                        | Mechanical Services Present |          |                 |
|---------------------------------------------|-----------------------------|----------|-----------------|
|                                             | HVAC                        | Plumbing | Fire Protection |
| <b>Clock Tower</b>                          | X                           |          |                 |
| <b>Band Stand</b>                           | N/A                         |          |                 |
| <b>Jubilee Comfort Station</b>              | X                           | X        | X               |
| <b>Seasonal Comfort Station (Teen Town)</b> | X                           | X        | X               |
| <b>Front Garage</b>                         | X                           |          |                 |
| <b>Park Machine Shop</b>                    | X                           | X        | X               |
| <b>Pergola 1</b>                            | N/A                         |          |                 |
| <b>Pergola 2</b>                            | N/A                         |          |                 |
| <b>Picnic Structure</b>                     | N/A                         |          |                 |
| <b>Rink Shack</b>                           |                             | X        |                 |
| <b>Summer Kitchen</b>                       | X                           | X        | X               |
| <b>Utility Shed B</b>                       | N/A                         |          |                 |

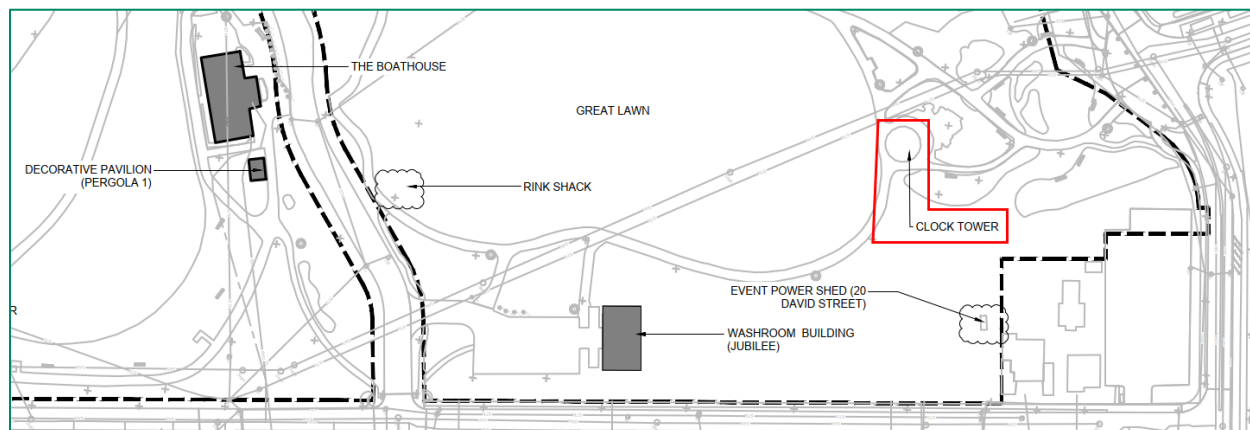
#### 4.2.3.2 Codes and Standards

The following codes and standards were considered when preparing this report:

1. ASHRAE: Service Life and Maintenance Cost Database
2. CSA B64.10, Selection and installation of backflow preventers/  
Maintenance and field testing of backflow preventers
3. Ontario Building Code (OBC)
4. Ontario Fire Code (OFC)
5. NFPA 10, Standard for Portable Fire Extinguishers

### 4.2.3.3 Clock Tower (79 Joseph Street, Kitchener, ON)

**Figure 69: Clock Tower Key Plan (79 Joseph Street, Kitchener, Ontario)**



*Note: not to scale*

#### 4.2.3.3.1 HVAC

There are four electric baseboard heaters located in the Clock Tower.

According to the ASHRAE Equipment Life Expectancy Chart, electric baseboard heaters have an average life expectancy of 10 years.

Since the heaters are past their life expectancy it can be expected that they will need to be replaced in the short-term. However, we concur with the WalterFedy Building Condition Assessment which indicates they do not need to be replaced immediately. Since there are multiple heaters serving the same space, it should be acceptable to replace each heater one at a time as they fail.

#### 4.2.3.3.2 Plumbing

There are no plumbing systems within the Clock Tower.

#### 4.2.3.3.3 Fire Protection

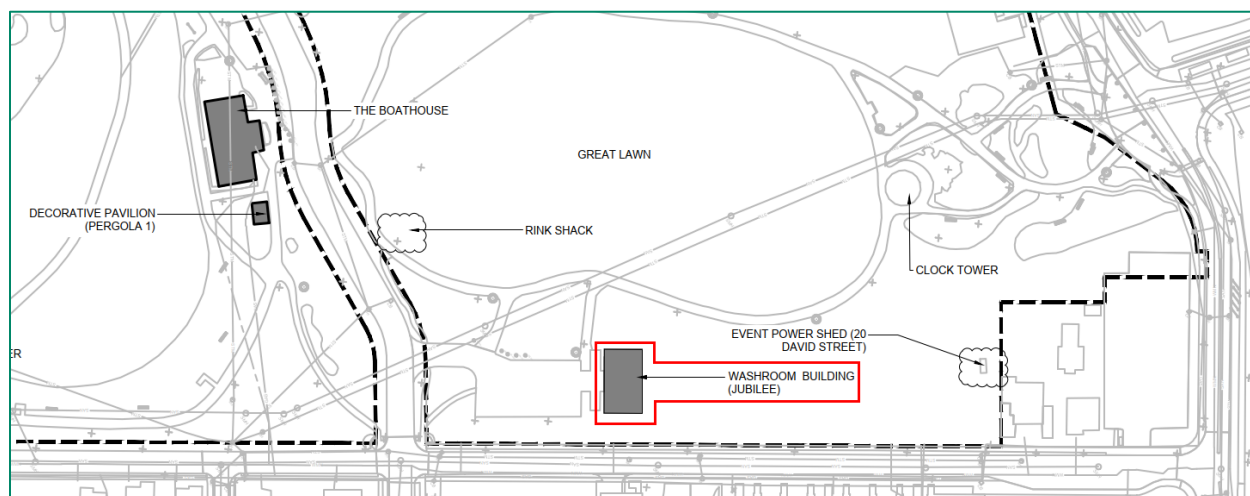
There are no fire protection systems within the Clock Tower.

However, OFC, clause 6.2.4.1 asks for portable extinguishers to be provided to protect every building, with a building being defined as “Any structure used or intended for supporting or sheltering any use or occupancy”.

As such, AECOM recommends that a class ABC fire extinguisher gets added immediately.

#### 4.2.3.4 Jubilee Comfort Station (40 Jubilee Drive, Kitchener, ON)

**Figure 70: Jubilee Comfort Station Key Plan (40 Jubilee Drive, Kitchener, Ontario)**



##### 4.2.3.4.1 HVAC

The Comfort Station on Jubilee has a gas fired furnace and roof exhaust for the washrooms both of which are original to the building that was constructed in 2014.

According to the ASHRAE Equipment Life Expectancy Chart:

- Gas-fired furnaces have a life expectancy of 18 years
- Rooftop exhaust fans have a life expectancy of 20 years

As such we concur with the WalterFedy Building Condition Assessment and that there is no need for replacement until 2034. All equipment is in good condition.

##### 4.2.3.4.2 Plumbing

The Comfort Station on Jubilee has a men's washroom, women's washroom, and a janitor room. The building is equipped with an electric domestic hot water tank to provide hot water to the washroom plumbing fixtures. All plumbing equipment, fixtures, and piping are in good condition.

As such we concur with the WalterFedy Building Condition Assessment and that there is no need for replacement until 2034 for the plumbing fixtures and 2041 for the hot water tank.

##### 4.2.3.4.3 Fire Protection

All fire extinguishers' age is unknown.

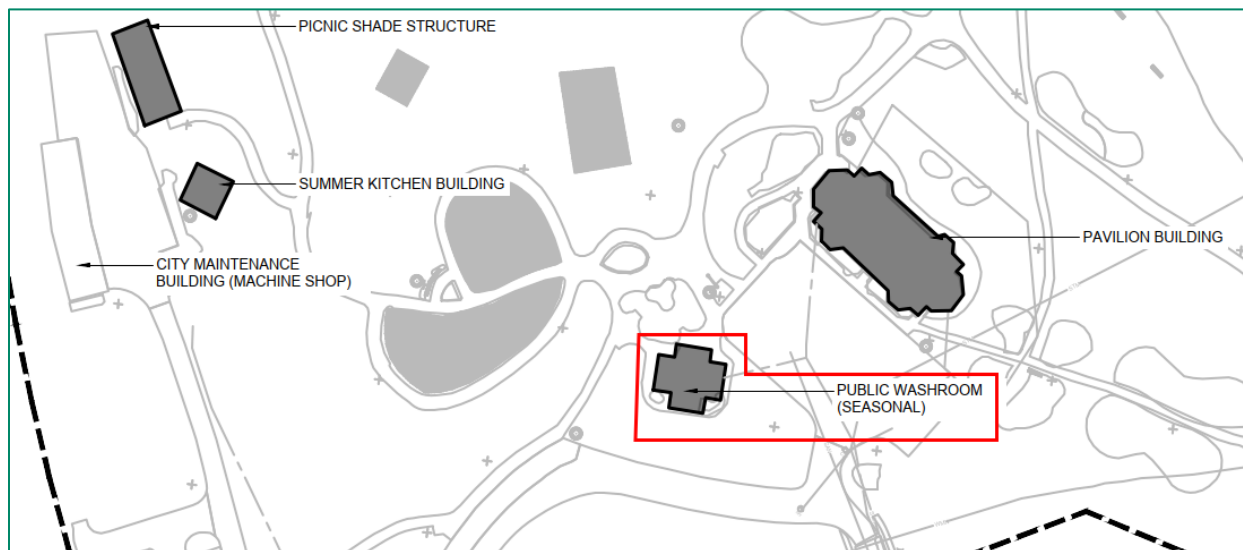
The OFC and NFPA 10 requires that dry chemical fire extinguishers be inspected monthly, and undergo an internal examination every 6 years, as such AECOM



recommends immediate testing and inspection of the fire extinguishers to ensure that they are operable and for a replacement to be provided if inoperable.

#### 4.2.3.5 Seasonal Comfort Station – Teen Town (83 Schneider Ave., Kitchener, ON)

**Figure 71: Seasonal Comfort Station Key Plan (83 Schneider Avenue, Kitchener, Ontario)**



##### 4.2.3.5.1 HVAC

The Seasonal Comfort Station has four gas-fired unit heaters. Three are original to the building and should be replaced before the winter as there is no redundancy heating in the building and the units are ten years past their life expectancy. The electric entryway heater should also be replaced as it is in poor condition and past its life expectancy. The washroom exhaust fans are in fair condition and should be replaced by 2025 as they are assumed to be installed in the year of construction.

##### 4.2.3.5.2 Plumbing

The Seasonal Comfort Station has a men's washroom, women's washroom, and a janitor room. The building is equipped with an electric domestic hot water tank to provide hot water to the washroom plumbing fixtures. All plumbing equipment, fixtures and piping are in good condition.

As such we concur with the WalterFedy Building Condition Assessment and that there is no need for replacement until 2030 for the plumbing fixtures and 2041 for the hot water tank.

##### 4.2.3.5.3 Fire Protection

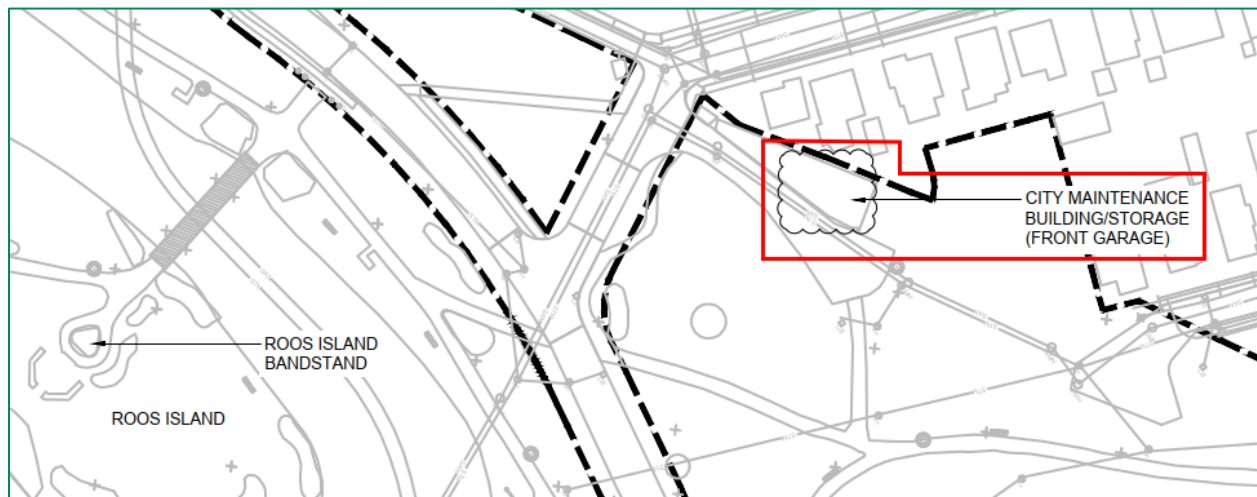
There are no fire protection systems within the Seasonal Comfort Station.

However, OFC, clause 6.2.4.1 asks for portable extinguishers to be provided to protect every building, with a building being defined as “Any structure used or intended for supporting or sheltering any use or occupancy”.

As such AECOM recommends that a class ABC fire extinguisher gets added immediately. Vandalism and theft should be a priority consideration for appropriate location and placement.

#### 4.2.3.6 Front Garage (35 Water Street South, Kitchener, ON)

**Figure 72: Front Garage Key Plan (35 Water Street South, Kitchener, Ontario)**



##### 4.2.3.6.1 HVAC

There are no HVAC systems currently within the Garage. The city has expressed possible interest in making this a multi-season building. In that scenario, heating (and cooling if desired) needs would need to be reviewed, as well as insulation requirements.

##### 4.2.3.6.2 Plumbing

There are no plumbing systems within the Garage.

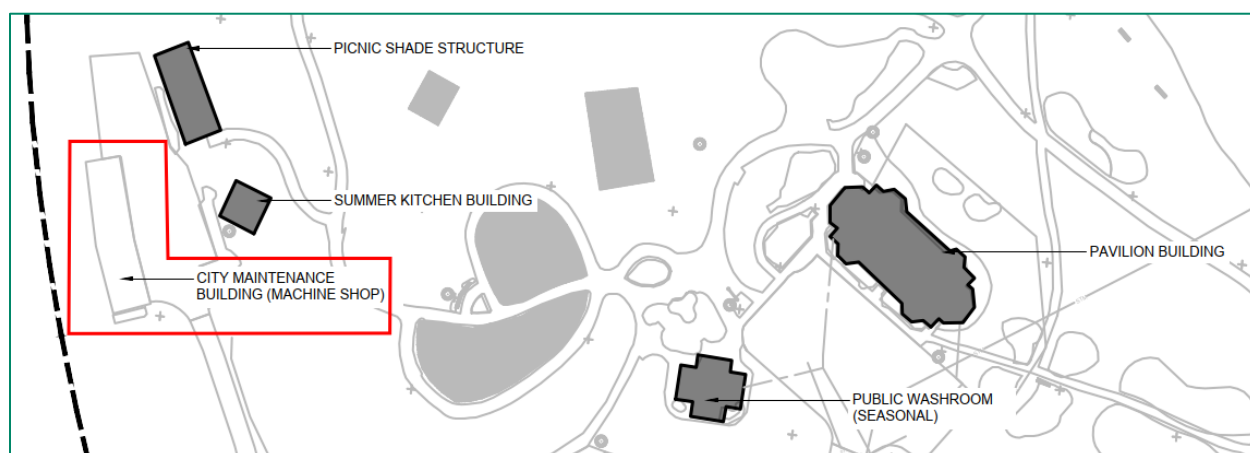
##### 4.2.3.6.3 Fire Protection

All fire extinguishers age is unknown.

The OFC and NFPA 10 requires that dry chemical fire extinguishers be inspected monthly, and undergo an internal examination every 6 years, as such AECOM recommends immediate testing and inspection of the fire extinguishers to ensure that they are operable and for a replacement to be provided if inoperable.

### 4.2.3.7 Machine Shop (35 Dill Street, Kitchener, ON)

**Figure 73: Machine Shop Key Plan (35 Dill Street, Kitchener, ON)**



#### 4.2.3.7.1 HVAC

The Machine Shop is equipped with a natural gas storage tank, a gas-fired furnace, gas-fired unit heaters and exhaust fans. All unit heaters are over 30 years old and appear to be in fair condition. The exhaust fans, according to the ASHRAE Equipment Life Expectancy Chart:

- Gas-fired unit heaters have a life expectancy of 13 years
- Exhaust fans have a life expectancy of 20 years

Since the unit heaters remain in fair condition, consider replacement in the next five years. The exhaust fans appear to be in fair condition. We agree with the WalterFedy Building Condition Assessment study.

#### 4.2.3.7.2 Plumbing

The Machine Shop has two washrooms and utility sinks. The building is equipped with an electric domestic hot water tank to provide hot water to the washroom plumbing fixtures. All plumbing equipment, fixtures and piping are in good condition.

#### 4.2.3.7.3 Fire Protection

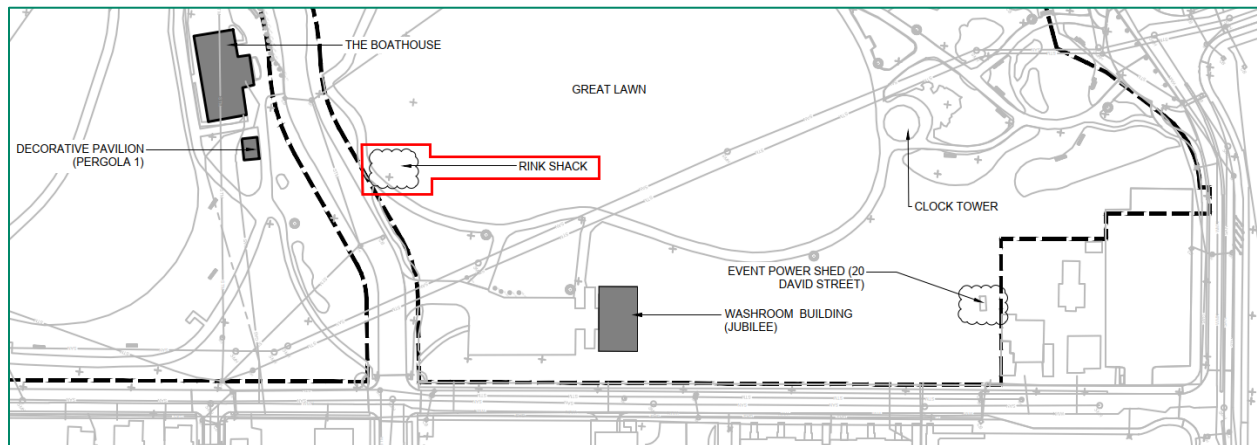
All fire extinguisher age is unknown.

The OFC and NFPA 10 requires that dry chemical fire extinguishers be inspected monthly, and undergo an internal examination every 6 years, as such AECOM recommends immediate testing and inspection of the fire extinguishers to ensure that they are operable and for a replacement to be provided if inoperable.



### 4.2.3.8 Rink Shack (50 Jubilee Drive, Kitchener, ON)

**Figure 74: Rink Shack Key Plan (50 Jubilee Drive, Kitchener, Ontario)**



#### 4.2.3.8.1 HVAC

There are no HVAC systems within the Rink Shack.

#### 4.2.3.8.2 Plumbing

The Rink Shack contains a backflow preventer (BFP) serving the outdoor ice rink. The backflow preventer appears to be in good condition.

We do not agree with the Building Condition Assessment report that the backflow preventer needs to be replaced immediately. Backflow preventers should be tested annually in accordance with CSA B64.10 to ensure they are operational; a replacement only needs to be provided if inoperable.

#### 4.2.3.8.3 Fire Protection

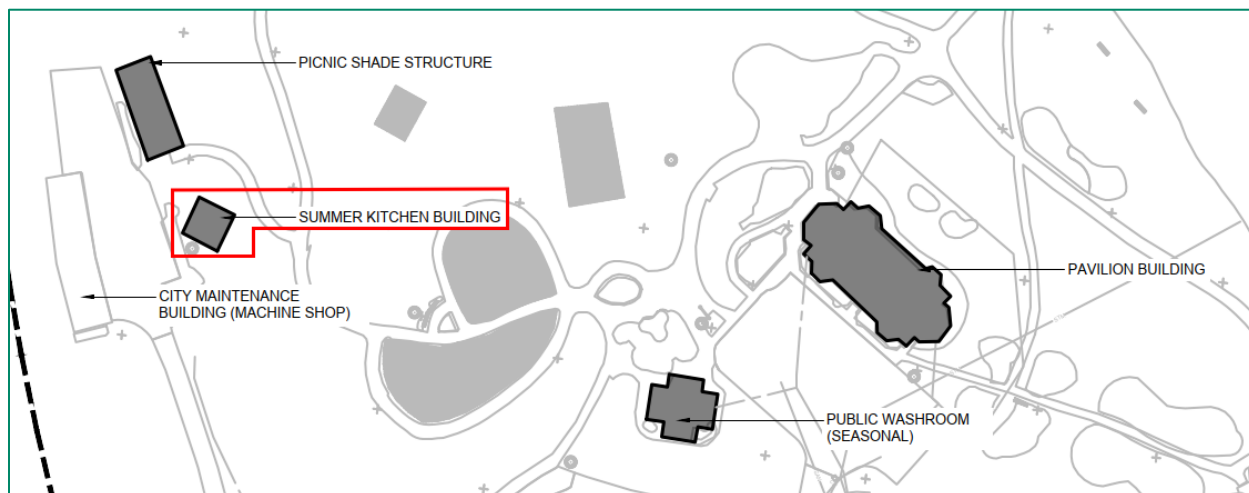
There are no fire protection systems within the Rink Shack.

However, OFC, clause 6.2.4.1 asks for portable extinguishers to be provided to protect every building, with a building being defined as “Any structure used or intended for supporting or sheltering any use or occupancy”.

As such AECOM recommends that a class ABC fire extinguisher gets added immediately.

### 4.2.3.9 Summer Kitchen (32 Dill Street, Kitchener, ON)

**Figure 75: Summer Kitchener Key Plan (32 Dill Street, Kitchener, Ontario)**



#### 4.2.3.9.1 HVAC

The Summer Kitchen has a wall mounted exhaust fan venting to the outdoors. The fan was installed in 1965 and is 40 years past its life expectancy of 20 years. Consider replacing in the next five years.

#### 4.2.3.9.2 Plumbing

The Kitchen is equipped with a utility sink and hot water tank. The sink is in poor condition and should be replaced. The water heater is in very good condition having been replaced in 2020. It has been mentioned that the piping requires replacement. Consider replacing at the same time as the sink.

#### 4.2.3.9.3 Fire Protection

All fire extinguishers were replaced in 2015 and are in fair condition.

The OFC and NFPA 10 requires that dry chemical fire extinguishers be inspected monthly, and undergo an internal examination every 6 years, as such AECOM recommends immediate testing and inspection of the fire extinguishers to ensure that they are operable and for a replacement to be provided if inoperable.

### 4.2.4 Immediate/Urgent Needs

Existing fire extinguishers in all buildings should be inspected and tested immediately to ensure they are operational.

New fire extinguishers should be added to the following buildings:

- Clock Tower
- Seasonal Comfort Station
- Rink Shack

Backflow preventors in all buildings should be inspected and tested immediately to ensure that are operational.

## 4.2.5 Recommended Repairs

See below for summary of recommended repairs for Building Condition Assessment reports for mechanical items required in the next ten years with costs associated. Costs and years listed below are original to the report (completed in 2022) and include soft project costs, unless noted otherwise. In some cases, less critical repairs have been omitted here and can be found in the original Building Condition Assessments. Recommended repairs of significant value within the next 10 years are shown below.

### **Clock Tower**

1. Replace baseboard heaters at a cost of \$5,920 (2025).

### **Victoria Park Comfort Station – Seasonal**

1. Replace door opener at a cost of \$4,440 (2025).
2. Replace toilets at a cost of \$9,620 (2030).
3. Replace sinks at a cost of \$5,180 (2024).
4. Various HVAC replacements before 2030 at a cost of \$10,000-\$20,000 in aggregate.

### **Victoria Park Front Garage**

1. Replace copper piping, \$2,220 (2026).
2. Replace sanitary waste piping, \$11,100 (2028).
3. Replace unit heaters, two at \$14,800 each, one at \$10,360 (2022).

### **Victoria Park Pergola 1**

1. Replace heat trace cable, \$3,000 (2030).

### **Victoria Park Rink Shack**

1. Replace backflow preventer, \$2,220 (2023).

### **Victoria Park Summer Kitchen**

1. Replace copper piping, \$1,850 (2025).
2. Replace sanitary waste piping, \$1,850 (2025)
3. Replace triple-basin sink, \$1,480 (2022).
4. Replace through-wall exhaust fan, \$4,440 (2022).



## 4.2.6 Irrigation

The irrigation system was installed with the Victoria Park Commons in 2013. The system is divided in 16 zones, consisting of polyethylene pipes, PVC pipes, rotors, valves, sprinkler heads, controllers, booster pump and back flow preventers. The current irrigation system is only installed with in the commons area and not throughout the park.

### 4.2.6.1 Assessment

The irrigation system is dated and requires updates and replacements. The irrigation system located within the Victoria Park Commons is regularly impacted with the set up of events that take place within the park. Heavy equipment and foot traffic due to events located on the Park Commons can cause damage to sprinkler heads, pipes and other components of the system. The debris from the festival activities can also clog irrigation lines and sprinkler heads if not regularly cleaned. Heavy foot traffic, vehicles, and tent set up can impacted the soil compaction reducing the effectiveness of irrigation by limiting water infiltration, root growth and compaction of irrigation components.

Future monitoring of the irrigation system should be undertaken and include the following assessments:

- **Water use efficiency** – How efficiently the water is being used? Regular checks for leaks, uniform water distribution and ways to minimize water waste.
- **Water quality** – Ensure the irrigation complies with the Canadian Water Quality Guidelines.
- **Annual water use** – Monitor the total annual water use.
- **Environmental impact** – Asses the impact of irrigation on the surrounding environment; reduce soil erosion from excess irrigation and ensure the irrigation system is targeting the correct location or garden and not watering hard surfaces.

### 4.2.6.2 Future Maintenance & Repairs

The maintenance of the irrigation system is important to ensure efficient water use and the longevity of the system. Updating the system to replace broken elements, and the addition of smart irrigation tools can improve the longevity and energy efficiency of the system.

Key maintenance requirements include:

#### **4.2.6.2.1 Regular Inspections**

City staff should regularly check the system for broken sprinkler heads, clogs and leaks. The check should include cleaning filters, checking for clogs, and repairing any damaged components. The inspections should be completed regularly throughout the watering season and at the beginning and end of the season. The regular inspection helps to prevent water waste, ensures even water distribution and allows for repairs at the time of issue instead of waiting for the issue to become worse.

#### **4.2.6.2.2 Water Pressure Monitoring**

City staff should monitor the water pressure through the system to monitor for blockages or leaks. The system flow rate should be checked through the peak flow rate to ensure that it meets the demands of the irrigation schedule. Assessing the soil type and the specific water requirements of the plants in the area being irrigated will assist with meeting the soil and plant needs through water pressure and planned irrigation schedules.

#### **4.2.6.2.3 Seasonal Adjustments & Irrigation System Performance**

The irrigation system should be adjust based on seasonal weather to reduce irrigation during rainy seasons and increase during dry seasons. The monitoring of soil moisture can also assist with determining the optimal time and amount of irrigation that is required for each zone.

#### **4.2.6.2.4 Winterization**

Regular seasonal maintenance should include draining the system for the off-season to prevent the pipes freezing bursting. Turning the water supply off and using an air compressor to clear out any remaining water can increase the lifespan of the irrigation system.

#### **4.2.6.2.5 Regular Maintenance**

Regular maintenance throughout the year can increase the lifespan of the irrigation system and increase the likelihood of discovering issues or required repairs before it becomes a costly replacement. Regular maintenance can include cleaning the sprinkler heads of dirt and debris that can cause blockages, annual system flushing to remove any built-up debris (maintaining optimal water flow and preventing clogs), and scheduling regular professional inspections and maintenance to catch and fix issues that are not visible during routine maintenance.

#### **4.2.6.2.6 Smart Irrigation Tools**

The inclusion of smart irrigation controllers and sensors that allow for water flow to be adjusted based on weather and soil condition can prevent the system from flooding an area, under watering, and will allow the user to monitor water use efficiency. Smart irrigation controllers allow for early issue detection and water optimization through tools

that monitor soil moisture and weather-based controls to monitor and adjust the irrigation system in real-time.



## 4.3 Integration of Data by Others

### 4.3.1 Paving Condition Evaluation

Paving Condition Evaluations were completed in 2023 by MDS Technologies Inc., consisting of surface distress evaluations, pavement roughness/ride quality evaluation and the overall conditions. In total, 148 segments of road, trails, sidewalks and parking lots were evaluated with an approximate length of 6,248 metres and approximately 43,366 square metres. The overall pavement condition was assessed based on surface distress and pavement roughness. The report findings are summarized below, while the original report and detailed breakdowns are available in **Appendix E**.

The paving condition assessment abbreviations included:

- AC – Asphaltic Concrete
- PCC – Portland Cement Concrete
- BR – Brick Surface
- X – Not accessible or non-applicable to assessment
- PCI – Pavement Condition Index
- RCI – Riding Comfort Index
- OCI – Overall Condition Index

The surface distress was assessed in accordance with ASTM D6433 Standard for Roads and Parking Lots Pavement Condition Index Surveys. The Pavement Condition Index (PCI) is measured from 100 to 0, where 100 represents a pavement with no distress and 0 represents a pavement that is very heavily distressed. According to the evaluation completed by MDS Technologies Inc., roads with a PCI score less than 50 are candidates for rehabilitation, such as mill and overlay. Roads with a PCI score less than 25 are candidates for reconstruction. The assessment completed indicates there are 22 segments to be rehabilitated, 3 to be reconstructed and 14 segments that were not accessible due to construction, are concrete stairs, or are a wooden bridge deck. Segments that were not accessible or not applicable to the assessment have been assigned a Road Type of “X” and a PCI, RCI and OCI score of “-1.0”.

The opportunity to widen the pathway network throughout the park, where possible, should be investigated to promote health benefits, active transportation, environmental benefits, economic benefits, accessibility and safety. Through the widening of pathways, the park can provide a safe space for physical activity including walking, biking and running, contributing to health and active transportation, connecting community members to the park and the surrounding community. The increase in available pathway area will allow more members of the community to use the park which will reduce greenhouse gas emissions, and deter crime by creating active, well-used

spaces. The additional width of the pathways will also meet the recreational multi-use pathways and trail regulations in the *City of Kitchener Urban Design Manual Accessibility Standards 2017*. The accessibility standards state that pathways and trails shall be a minimum width of 3.0 metres to accommodate a range of users and may be wider depending on the frequency and use of maintenance access requirements. The main pathways within the park that act as the main connector points to the park entries should be reviewed as to whether they should be widened then 3.0 metres to accommodate increased use and maintenance vehicles. It should be noted however that there are many mature-stature trees along many of the pedestrian pathways in the park. Prior to any consideration of pathway widening or capital works, a thorough review and inventory of any impacts to existing trees should be undertaken to weigh the impacts to the urban tree canopy.

### 4.3.2 Building Condition Assessment

Building Condition Assessments were performed in 2022 by WalterFedy for the following structures. The report findings and recommended actions are summarized below, while detailed breakdowns of the anticipated costs over the 30-year forecasts are available in the original Building Condition Assessments. Costs and years listed below are original to the report and include soft project costs, unless noted otherwise. In some cases, less critical repairs have been omitted here and can be found in the original Building Condition Assessments. Recommended repairs of significant value within the next 10 years are shown below.

#### 4.3.2.1 Clock Tower

##### 4.3.2.1.1 Current Condition

The Clock Tower foundations, floor slabs, framing, and ceilings are of good to fair quality. The roofing material was observed to be in fair to poor condition.

The heating and electrical equipment was found to be in fair condition. The lighting (general and in the cupola) is in fair condition. The 10-year forecast for expenses is \$164,089.

##### 4.3.2.1.2 Recommended Repairs

1. Repair of the copper roofing material should be undertaken within the next 1-5 years. This may include refurbishment where possible, up to and including full replacement. Anticipated cost is \$29,600 (2026).
2. Repair cracked sections of masonry at a cost of \$20,788.
3. Repair chipped and damaged columns, and cupola at a cost of \$22,200 (2026).
4. Repair interlocking walkway at a cost of \$7,030 (2025).

### 4.3.2.2 Kitchener Rotary Band Stand

#### 4.3.2.2.1 Current Condition

The band stand was updated in late spring / early summer of 2024, after a Building Condition Assessment was completed in 2021 by Tacoma Engineering and in 2022 by WalterFedy. The improvements that were included in the scope of work completed in 2024 as part of the Victoria Park Band Stand Improvements (Q24-003) included, but were not limited to:

- Re-decking of the floor to match the existing material, colour and lumber dimensions of the structure
- Steel connection plates were treated to remove corrosion and coated with a rust-inhibiting paint
- Exposed wood elements were repaired as required
- The overall exterior wooden structural elements were painted to match existing RAL paint colour
- Roof shingles were replaced, including starter strips and valley flashing
- Two sub-surface concrete bunkers adjacent to the structure were removed and -re-cladding of the bandshell skirting was completed to match remainder of the structure
- The wood ceiling was removed and replaced
- A new ceiling hatch was integrated for operational access to rafters and electrical components
- Additional repairs not listed in the Building Condition Assessment include repairs to the electrical, lighting and powder-coating of all the railings

#### 4.3.2.2.2 Recommended Repairs

No investment in the structure is expected within the next 10 year budget cycle following the upgrades in 2024.

#### 4.3.2.2.3 WaterFedy Building Condition Assessment Included

The band stand, comprised of wood columns on concrete foundations with a wood framed roof, is generally in good condition. The roofing material (shake shingles) were identified to be in very poor condition. The 10-year forecast for expenses is \$35,016.

Recommended repairs:

1. Replace wood shake roofing at a cost of \$14,800 (2023).
2. Repair wood columns as needed at a cost of \$2,800 (2026).
3. Repair railings as needed at a cost of \$1,110 (2023).

4. Repair wood flooring as needed at a cost of \$2,220 (2023).

**Figure 76: Kitchener Rotary Band Stand (2024)**



#### **4.3.2.3 Victoria Park Comfort Station – Jubilee**

##### **4.3.2.3.1 Current Condition**

The one-storey public washroom is generally in good condition with only minor replacements anticipated until 2034. Some updates to exit signage and the building access control system are proposed. The 10-year forecast for expenses is \$30,008.

No near-term repair or replacement activities are required for this structure. Longer term anticipated repair costs can be found in the report.

#### **4.3.2.4 Victoria Park Comfort Station (Teen Town) – Seasonal**

##### **4.3.2.4.1 Current Condition**

The one-storey public washroom is generally in good condition with a 10-year forecast for expenses of \$246,449.



#### **4.3.2.4.2 Recommended Repairs**

1. The heritage foundations, while in fair condition, should be monitored and repaired at regular intervals at an anticipated cost of \$71,020 (2031).
2. Masonry repairs as needed at a cost of \$14,208 (2030).
3. Replace asphalt shingles at a cost of \$35,520 (2030).
4. Replace doors into the gallery and men's washroom (2023) and women/family washroom (2028) at a cost of \$6,660.
5. Replace painted wood doors at a cost of \$4,440 (2022).
6. Patch and repair ceilings at a cost of \$8,880 (2025).

#### **4.3.2.5 Victoria Park Front Garage**

##### **4.3.2.5.1 Current Condition:**

The total 10-year forecast for highest priority items is \$302,958, comprised mainly of lifecycle replacement needs. The building is generally in good condition, though many building elements are reaching the end of their expected useful life, resulting in rapid deterioration of the building condition, beginning with fair in 2023 and reaching a critical state by 2037.

##### **4.3.2.5.2 Recommended Repairs**

(only near-term and/or higher cost items are included here):

1. Concrete slab repairs, \$8,214 (2035).
2. Repair load bearing masonry, \$13,320 (2025).
3. Replace metal framed windows, \$38,480 (2022).
4. Replace vinyl framed window, \$2,960 (2022).
5. Replace hollow-metal doors, \$8,880 (2028).
6. Replace metal door, \$2,220 (2022).
7. Replace 4 overhead doors, \$26,640 (2030).
8. Replace wood door, \$5,180 (2022)
9. Replace lockers, \$13,320 (2026).
10. Replace concrete sealant, \$8,880 (2022).
11. Replace Gypsum board ceilings and insulation, \$24,050 (2026).
12. Replace showers, \$5,920 (2028).
13. Replace asphalt roadway, \$81,844 (2024).

It is recommended to investigate the addition of insulation to the building for the winter months. The building could also be used for storage and operations teams meeting space with the addition of insulation, creating a year-round functional building.

### 4.3.2.6 Victoria Park Machine Shop

#### 4.3.2.6.1 Current Condition

The total 10-year forecast for highest priority items is \$74,659. The building is generally in fair condition, with the condition rapidly deteriorating, reaching poor condition by 2025.

#### 4.3.2.6.2 Recommended Repairs

1. Replace stair structure, \$7,400 (2023).
2. Replace load-bearing clay brick masonry, \$20,813 (2025).
3. Replace wood siding \$2,775 (2025).
4. Replace metal and wood framed windows, \$11,840 (2022).
5. Replace hollow-metal doors, \$2,960 (2025).
6. Replace overhead door, \$5,180 (2028).
7. Install concrete sealant, \$2,960 (2023).
8. Regrade or remove tree, \$14,800 (2023).

### 4.3.2.7 Victoria Park Pergola 1

#### 4.3.2.7.1 Current Condition

This pergola is generally in good condition, with 10-year forecasted costs of \$16,367, and is anticipated to remain in good condition until at least 2027.

#### 4.3.2.7.2 Recommended Repairs

1. Refinish metal columns, \$1,480 (2023).
2. Foundation repairs as needed, \$2,220 (2027).
3. Repoint stone wall as needed, \$1,066 (2026).
4. Refinish exposed wood structure, \$1,480 (2030).
5. Repair stone mosaic and centre piece \$4,440 (2027).

### 4.3.2.8 Victoria Park Pergola 2

#### 4.3.2.8.1 Current Condition

This pergola is generally in good condition, with 10-year forecasted costs of \$8,834, and is anticipated to remain in good condition until at least 2030.

#### 4.3.2.8.2 Recommended Repairs

1. Repaint, \$1,110 (2025).
2. Foundation and wood column repairs as needed, \$3,256 (2030).
3. Replace drywall ceiling and repair, \$2,664 (2030).

### 4.3.2.9 Victoria Park Picnic Shelter

#### 4.3.2.9.1 Current Condition

The picnic shelter is greater than 50 years old and generally in poor condition, with 10-year forecasted costs of \$87,356. Full replacement should be considered and weighed against the repair costs below. Replacement costs were not considered in the Building Condition Assessment.

#### 4.3.2.9.2 Recommended Repairs

The tarmac may be replaced with a light-duty concrete paving surface in lieu of replacing with asphalt. This would be a greater expense and not included in the Building Condition Assessment, but would come with increased durability and longevity.

1. Recast and reset concrete footings, \$20,720 (2023).
2. Refinish steel posts, \$5,661 (2023).
3. Refinish roof construction, \$81,40 (2023).
4. Refinish paint, \$6,447 (2023).
5. Replace tarmac surface, \$16,280 (2024).
6. Replace picnic tables, \$22,200 (2030).

### 4.3.2.10 Victoria Park Rink Shack

#### 4.3.2.10.1 Current Condition

The rink shack is generally in poor condition, with 10-year forecasted costs of \$30,315. Full replacement should be considered and weighed against the repair costs below. Replacement costs were not considered in the Building Condition Assessment.

#### 4.3.2.10.2 Recommended Repairs

1. Repair board and batten, \$1,088 (2023).
2. Replace wood shingle roof, \$2,960 (2023).
3. Replace wood door, \$1480 (2025).
4. Relevel, replace interlock as required, \$555 (2023).

### 4.3.2.11 Victoria Park Summer Kitchen

#### 4.3.2.11.1 Current Condition

The summer kitchen is generally in good condition, with 10-year forecasted costs of \$50,029. It should also be noted that this facility has not been accessible to the public or used by events staff for 4+ years and city staff will be looking at opportunities for re-use through the Master Planning process.

#### **4.3.2.11.2 Recommended Repairs**

1. Refurbish exterior sections of the roof structure, \$1,332 (2025).
2. Replace solid wood doors, \$5,920 (2022).
3. As-needed masonry repairs, \$4,736 (2030).
4. Replace windows, \$11,840 (2023).
5. Replace 4' x 6' roll-up door, \$5,920 (2030).
6. Replace 4' x 10' roll-up door, \$8,880 (2030).
7. Replace asphalt shingles on pitches sections, \$19,536 (2022).
8. Install concrete sealant, \$2,220 (2022).
9. Replace countertop, \$4,440 (2022).
10. Relevel and repair interlock, \$1,480 (2025).

#### **4.3.2.12 Victoria Park Utility Shed B**

##### **4.3.2.12.1 Current Condition**

The utility shed is generally in good condition, with 10-year forecasted costs of \$1,628.

##### **4.3.2.12.2 Recommended Repairs**

1. Repair foundation as needed, \$370 (2023).
2. Regrade surrounding site, \$740 (2023).

#### **4.3.3 Pedestrian Bridge Review**

An Ontario Structure Inspection Manual (OSIM) and 2023 Bridge Inspections report was completed in 2023 by AECOM for the following bridges. Refer to the 2023 OSIM inspection forms and the 2023 Bridge Inspections report for full details. Unless noted otherwise, comments and estimates are taken directly from those reports.

##### **4.3.3.1 876 – Victoria Park Lake Trail Bridge #2**

At the northeast side of Victoria Park, there is a steel truss bridge connecting the pedestrian path adjacent to Roland Street to Roos Island. The bridge is not considered part of a heritage designation. The overall comments within the 2023 OSIM assessment noted minor rehabilitation will be required within 6 to 10 years, to add slope protection under the bridge at the north end and to clean the structure at the bottom chords to prevent corrosion. The assessment of the abutments noted: light scaling; a narrow-stained crack with efflorescence on the walls (with limited inspection on the north side); medium spall; light abrasions; light-to-medium honeycombing on the ballast walls; two bearing to the north with light corrosion and light debris cover, resulting in the need for



maintenance of the debris to be cleared within 2 years. In addition, it is recommended for bridge bearing maintenance to clean the bottom chord of the trusses/arches to occur within 2 years due to the accumulation of debris at connections with verticals.

The predicted cost of minor rehabilitation (within 6 to 10 years) at the time of assessment in 2023 to add slope protection under the bridge at the north end, and to clean the structure at the bottom chords to prevent corrosion was \$600 (per Appendix D of the *2023 Bridge Inspections* report).

Within Appendix G of the *2023 Bridge Inspections* report, it was noted the 2023 replacement value was \$54,000 and a 74.6 Bridge Condition Index (BCI).

#### **4.3.3.2 877 – Pedestrian Bridge Over Victoria Lake**

At the north side of Victoria Park, there is a heritage cantilever steel truss bridge with a suspended deck connecting the pedestrian path adjacent to Jubilee Drive to Roos Island. The bridge was not assessed as part of the 2023 review due to it being fenced off. The City of Kitchener inspects their bridges every two years, the 2020 inspection was not provided to AECOM, therefore the 2018 inspection was reviewed. Built in 1896, the bridge is generally considered to have heritage value although it is unknown if any designation exists. In 2023 Phase 1 of a rehabilitation of the bridge was implemented. The longitudinal stringers were replaced, bearing plates were cleaned and painted and the deck boards were replaced. In phase 2 additional repair work is scheduled to be implemented in 2024 and will include replacing of the cross-tie bars and recoating the bridge and rail. It is anticipated that the bridge will require ongoing maintenance following the rehabilitation. At the time of inspections in November 2024, the bridge was under construction and additional inspections were not completed to determine the extent of work being completed.

**Figure 77: Pedestrian Bridge 877 – November 2024 Construction**



#### **4.3.3.3 1027 – Pedestrian Bridge Over Victoria Lake**

Located at the west side of Victoria Park, approximately 100 metres east of the railway, is a bridge with a wood deck on a HSS Truss. Built in 2013, the bridge is not considered part of a heritage designation. As noted in the OSIM report, the overall comments recommend adding asphalt padding to the approaches and rock protection maintenance within 1 to 5 years. The settlement of approach creates possible pedestrian and vehicular hazards due to the uneven surface. Additional light abrasions, light corrosion and light-to-medium water stains were noted during the assessment but were not noted to require rehabilitation at the time of inspection.

Additional investigations include monitoring movement. The additional investigation is of normal priority and requires monitoring the loss of material at the north abutment and bearings. The cost will be \$3000 (per Appendix C of the *2023 Bridge Inspections* report).

The predicted cost of minor rehabilitation (within 1 to 5 years) at the time of assessment in 2023 included asphalt padding and rock protection maintenance at \$1200 (per Appendix D of the *2023 Bridge Inspections* report).

Within Appendix G of the *2023 Bridge Inspections* report, it was noted the 2023 replacement value was \$61,000 and a 74.4 Bridge Condition Index (BCI).

#### 4.3.3.4 1117 – Victoria Park Lake Pedestrian Bridge #3

At the centre of the park near the canoe monument along the pedestrian pathway connecting the Victoria Park Pavilion and Jubilee Drive is a steel truss bridge with a wooden deck. This bridge is not considered as part of a heritage designation. It is recommended in the OSIM report to complete minor rehabilitation within 1 to 5 years and add rock protection on the embankment due to one (1) missing rock protection, creating unstable embankments. Additional light abrasions, light water stains and medium weathering were noted but it was not noted to require rehabilitation at the time of inspection.

The predicted cost of minor rehabilitation (within 1 to 5 years) at the time of assessment in 2023 to add rock protection on the embankment was \$2400. (Per Appendix D of the *2023 Bridge Inspections* report)

Within Appendix G of the *2023 Bridge Inspections* report, it was noted the 2023 replacement value was \$99,000 and a 99.9 Bridge Condition Index (BCI).

## 4.4 Trees and Other Vegetation

### 4.4.1 Existing Trees

Within Victoria Park, there are 92 species inventoried, with a total of 1138 trees. Tree inventory, species, condition, size and tree lifecycle information was provided by the City of Kitchener.

The species include:

#### **Altingiaceae Family**

- Sweetgum (2)

#### **Anacardiaceae Family**

- Staghorn Sumac (3)

#### **Betulaceae Family (Carpinus)**

- Eastern Hophornbeam (6)
- Turkish Hazelnut (1)
- American Hornbeam (3)
- European Hornbeam (1)
- Birch (3)

#### **Bignoniaceae Family**

- Northern Catalpa (1)

#### **Cannabaceae Family**

- Northern Hackberry (39)

#### **Cercidiphyllaceae Family**

- Katsura Tree (1)

#### **Cornaceae Family (Cornus)**

- Dogwood (3)
- Flowering Dogwood (1)

#### **Cupressaceae Family**

- Eastern Red Cedar (6)
- Juniper (1)
- Nootka Falsecypress (9)
- Northern White Cedar (94)

### **Fabaceae Family**

- Eastern Redbud (18)
- Honey Locust (46)
- Kentucky Coffeetree (6)
- Weeping Beech (4)
- Yellowwood (4)

### **Fagaceae Family**

- European Beech (17)

### **Ginkgoaceae Family**

- Ginkgo (18)

### **Juglandaceae Family (Juglands)**

- Black Walnut (17)
- Butternut (1)
- English Walnut (3)

### **Malvaceae Family (Tilia)**

- American Basswood (4)
- Littleleaf Linden (8)

### **Magnoliaceae Family**

- Magnolia (11)
- Tulip Tree (9)

### **Moraceae Family**

- White Mulberry (4)

### **Oleaceae Family**

- Ivory Silk (1)
- White Ash (3)
- Common Lilac (2)

### **Platanaceae Family<sup>3</sup> (Platanus)**

- American Sycamore (2)
- London Planetree (14)

### **Pinaceae Family**

- Austrian Pine (54)
- Blue Spruce (24)
- Eastern Hemlock (3)
- Eastern White Pine (16)

- Scotch Pine (11)
- Serbian Spruce (4)
- White Fir (6)
- White Spruce (27)
- Doulgas Fir (2)
- Larch Tree (1)
- Mugo Pine (2)
- Norway Spruce (56)

### **Quercaceae Family**

- Bur Oak (18)
- Columnar English Oak (5)
- English Oak (31)
- Northern Red Oak (63)
- Pin Oak (8)
- Swamp White Oak (6)
- White Oak (14)

### **Rosaceae Family (Sorbus)**

- American Mountain Ash (1)
- Black Cherry (1)
- Callery Pear (2)
- Crabapple (8)
- Kwanzan Cherry (1)
- Serviceberry (10)
- Sweet Cherry (3)
- American Plum (1)
- Purpleleaf Sand Cherry (1)
- European Mountain Ash (2)
- Green Ash (12)

### **Rutaceae Family**

- Amur Corktree (1)

### **Salicaceae Family (Willow)**

- Eastern Cottonwood (2)
- Quaking Aspen (1)
- Weeping Willow (21)
- Willow (1)



### Sapindaceae Family (Acer)

- Amur Maple (10)
- Autumn Blaze Maple (2)
- Black Maple (4)
- Boxelder (4)
- Columnar Maple (1)
- Crimson King Maple (6)
- Globe Norway Maple (6)
- Greencolumn Black Maple (1)
- Horsechestnut (2)
- Japanese Maple (2)
- Norway Maple (49)
- Ohio Buckeye (4)
- Red Maple (24)

- Silver Maple (102)
- Soft Maple\* (32)
- Sugar Maple (88)

### Taxaceae Family

- Yew (1)

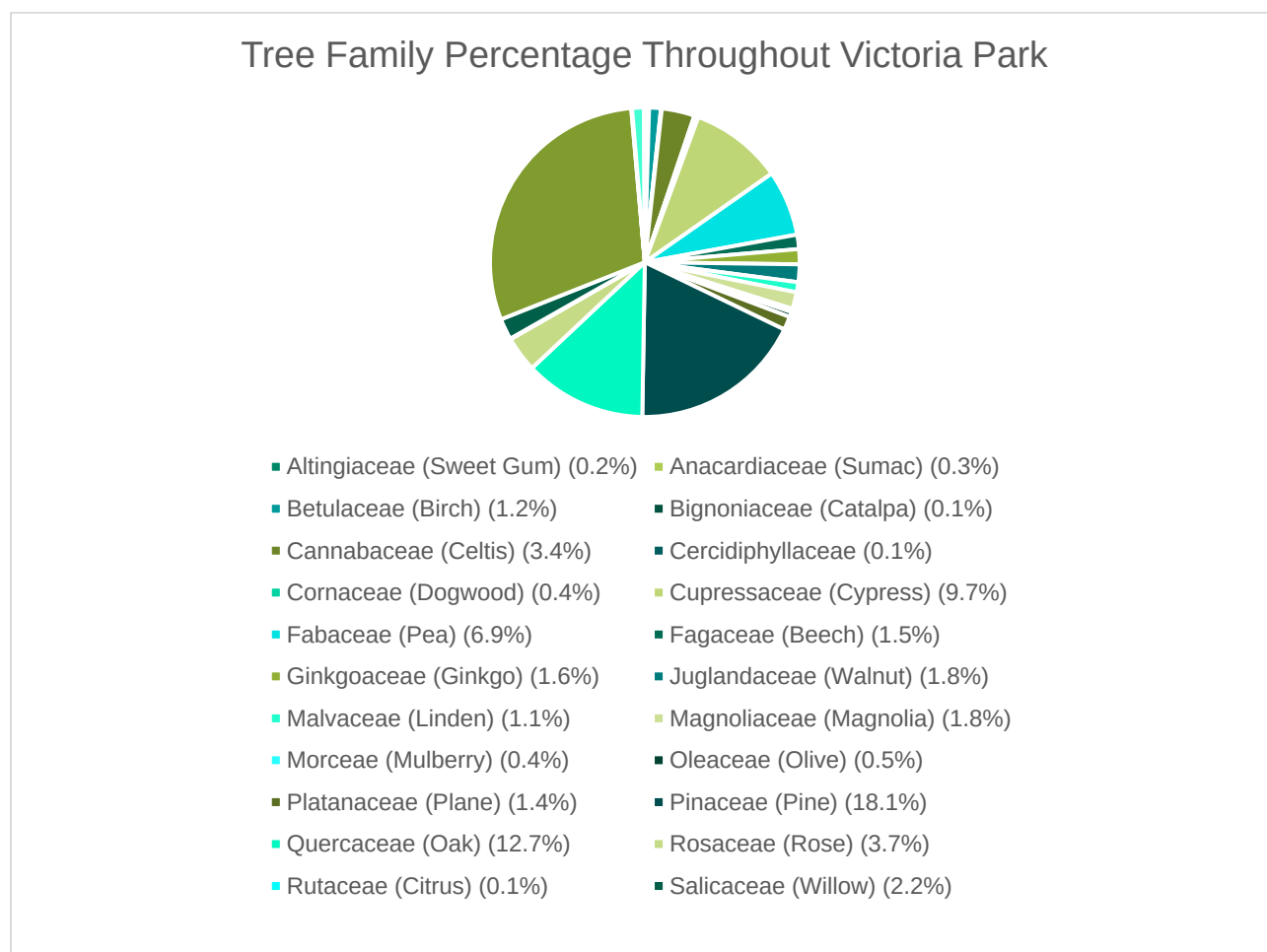
### Ulmaceae Family (Ulmus)

- American Elm (3)
- Elm (3)
- Japanese Zelkova (2)
- Siberian Elm (6)

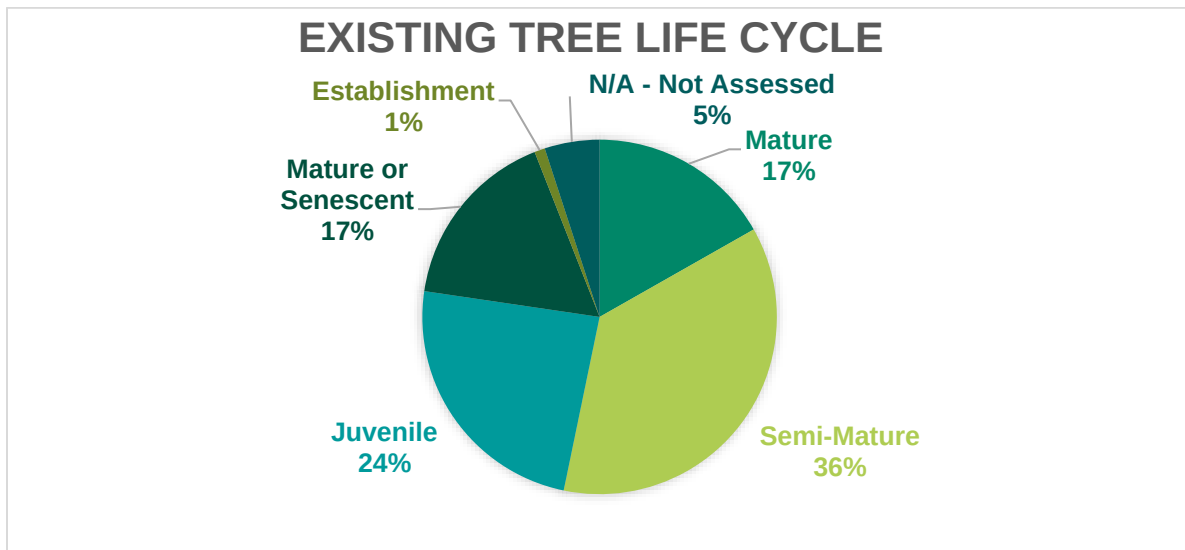
### N/A – Not Assessed

- No species recorded (1)

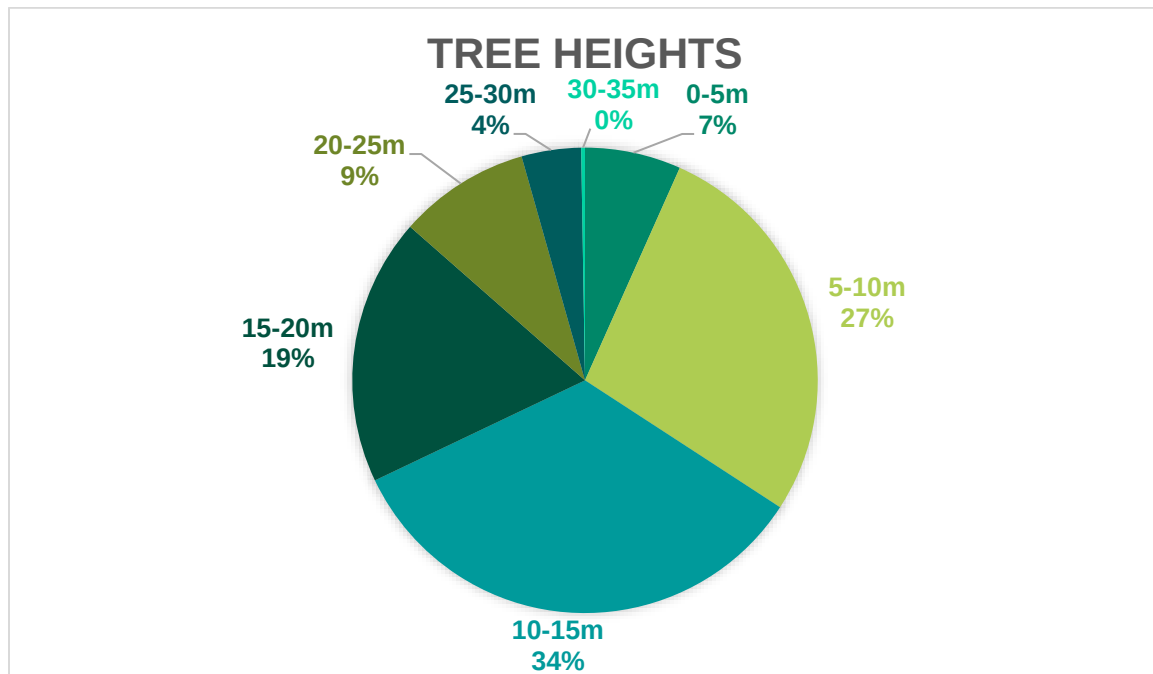
**Figure 78: Tree Family Percentage Throughout Victoria Park**



**Figure 79: Existing Tree Life Cycle**



| Existing Tree Life Cycle | Number of Trees |
|--------------------------|-----------------|
| N/A – Not Assessed       | 57              |
| Establishment            | 11              |
| Juvenile                 | 274             |
| Semi-Mature              | 415             |
| Mature                   | 191             |
| Mature or Senescent      | 190             |
| <b>TOTAL</b>             | <b>1138</b>     |

**Figure 80: Tree Heights**

| Existing Tree Heights | Number of Trees |
|-----------------------|-----------------|
| 0-5 metres            | 76              |
| 5-10 metres           | 313             |
| 10-15 metres          | 384             |
| 15-20 metres          | 211             |
| 20-25 metres          | 104             |
| 25-30 metres          | 47              |
| 30-35 metres          | 3               |
| <b>TOTAL</b>          | <b>1138</b>     |

Tree conditions are rated as excellent, good, fair, poor, very poor or dead. The overall tree condition considers the health and structural integrity of the tree. The information provided by the City of Kitchener included information for crown vigour, tree wounds, insect/disease concerns, foliage, leaf quality, twig dieback, dead branches, structure condition, and overall relation to utilities (underground and aboveground).

Tree condition definitions as per the City of Kitchener Tree Management Policy (February 28, 2002)

#### **Excellent Condition** (No Risk Trees)

Sound, full-crowned trees of natural shape with no dead branches in the top of the crown and no significant evidence of decline. The tree has good growth, no dead wood, no pruning required, good life expectancy of 15 years or more.

#### **Good Condition** (Low Risk Trees)

Full-to-medium crowned tree of natural shape with a live crown ratio greater than 40 percent that show no more than minor dead wood (up to 10 percent secondary branches only and mainly in the lower crown) and no more than one moderate trunk defect or indicator of decline. The tree has no damage, pruning may be required, has a life expectancy of 10-15 years, with very few damaged limbs.

**Fair Condition** (Medium Risk Trees)

Full-to-small crowned trees with a live crown ratio greater than 25 percent that exhibit no more than moderate dead wood (11 to 35% secondary branches) and no more than two moderate trunk defects or indicators of decline. The tree has new growth with dead limbs or dead trunk wood, pruning and fertilizing is required to retain tree. The tree has a poor life expectancy of 1-10 years.

**Poor Condition** (High Risk Trees)

Medium-to-very small crowned trees (live crown ratio less than 25 percent) that exhibit one or more of the below conditions:

- a) Trees with significant foliage of poor colour and less than normal size
- b) Trees with significant crown dieback (greater than 35 percent dead wood in primary limbs)
- c) Trees with major trunk defects or decay (one extensive problem or 3 or more distinct but moderate decline indicators)

The tree has a large majority of limbs or trunk wood with damage. The tree is typically a mature tree in a declining state with more dead limbs and trunk wood than alive.

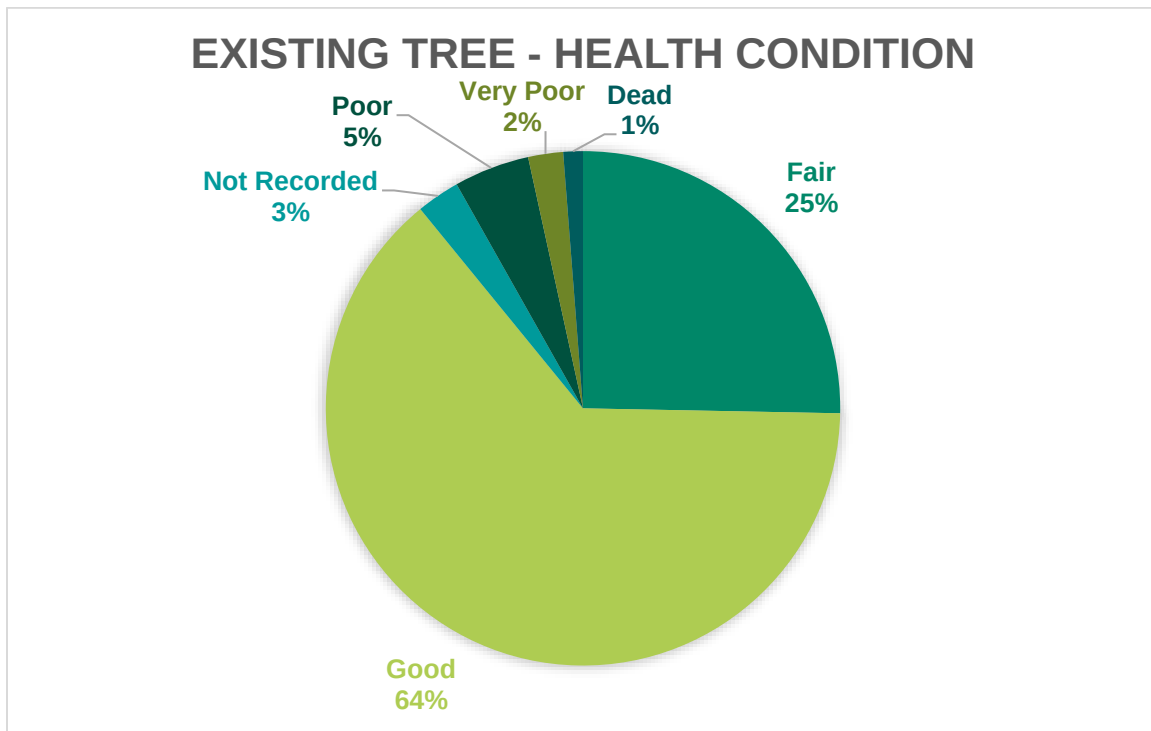
**Very Poor** (Very High-Risk Trees)

Dying trees with very little live crown.

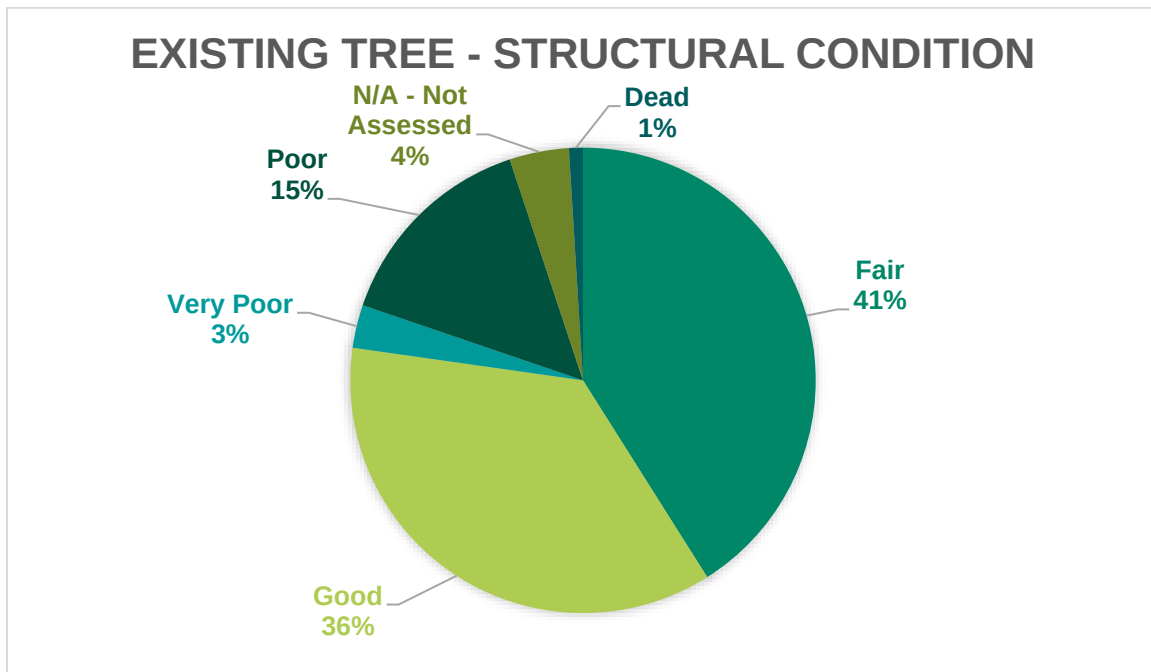
**Dead Tree**

No live foliage present.



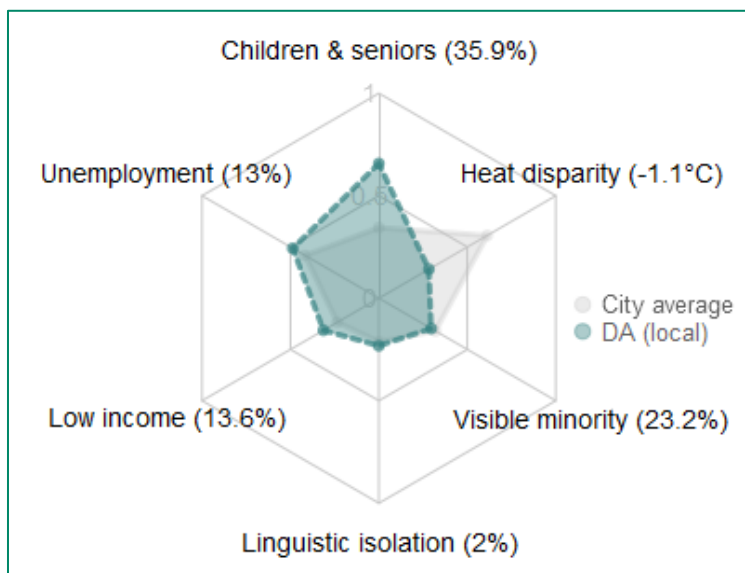
**Figure 81: Existing Tree – Health Condition**

| Tree Condition               | Number of Trees<br>Overall Health Condition | Number of Trees<br>Structural Condition |
|------------------------------|---------------------------------------------|-----------------------------------------|
| Good                         | 726                                         | 412                                     |
| Fair                         | 288                                         | 467                                     |
| Poor                         | 54                                          | 167                                     |
| Very Poor                    | 25                                          | 34                                      |
| Dead                         | 14                                          | 11                                      |
| Not Recorded or Not Assessed | 31                                          | 47                                      |
| <b>TOTAL</b>                 | <b>1138</b>                                 |                                         |

**Figure 82: Existing Tree – Structural Condition**

The Victoria Park urban boundary has a tree equity score of 100/100 consisting of a 42.8 percent tree canopy coverage (Goetz, 2023). Overall, the City of Kitchener has a tree equity score of 87/100. The goal for the urban boundary is 30 percent throughout the City of Kitchener. The score ranges from 0 to 100, with lower scores indicating higher priority for tree planting. The priority index assists with prioritizing the need for planting to achieve the Tree Equity based on seven equally weighted climate, socio-economic and health variables. A higher priority index indicates the area has a greater potential for residents to be disproportionality affected by pollution, extreme heat and other environmental hazards that can be reduced with the planting of trees. The seven variables for the tree equity score consists of health burden index (poor mental and physical health), considering vulnerable ages to extreme heat health impacts (children and seniors), heat disparity (land-surface temperature), visible minority population percentage, linguistic isolation percentage (population with no English or French language), unemployment percentage, and low-income percentage. Overall, Victoria Park has a higher percentage of children and seniors, unemployment, and low income in comparison to the city average, creating a higher priority to maintain and contribute to the overall tree canopy in the area. The Victoria Park area has comparable linguistic isolation and visible minority, but it has a lower heat disparity in comparison to the overall City of Kitchener.

**Figure 83: Victoria Park Priority Score (Goetz, 2023)**



Opportunity for tree location according to Discovering Our Urban Forest – City of Kitchener.

**Figure 84: Trees in Your Neighbourhood (Trees In Your Neighbourhood, n.d.)**



## **4.4.2 Recommendations**

### **4.4.2.1 Diversity and Resilience**

Planting a variety of tree species can improve the diversity, ecological balance and resilience of the tree species within Victoria Park can assist with pests, diseases, changing climate conditions. Providing a variety of tree species can assist with the continuous canopy that provides habitat for a wide variety of species including birds, insects and other wildlife. The diversity of tree species is essential to maintain a healthy ecosystem and contribute to various ecological functions. It is recommended to continue to increase the variety of tree species and monitor existing trees for disease and deterioration. Through the increase in tree species variety, it is recommended to target the replacement of non-native and invasive species. An assessment should be completed to determine the percentage and location of invasive and non-native species should they exist within the Victoria Park limits and surrounding area.

Mixed planting consisting of early, mid and late successional species can assist with creating a resilient forest that can adapt to a changing environment and climate. Early successional species consist of fast growing, light-demanding species and assist with stabilizing soil and providing shade for slower-growing species. Mid-successional species consist of more shade-tolerant species that gradually replace early successional species. Mid-successional species contribute to the complexity of the forest and contribute to enhancing biodiversity. Late successional species are long lived, shade tolerant species that provide habitat for wildlife and contribute to the stability and resilience of the forest and planting areas.

### **4.4.2.2 Continuous Canopy**

When trees start to die back or have reduced canopies, they should be replaced at a 1:1 ratio, at a minimum, to ensure the canopy of the park remains intact. To be proactive, it would be recommended to start replacing the trees earlier and at a higher ratio, especially for larger trees being replaced. Emphasis should be given to areas where the existing canopy is threatened, providing focus on maintaining mature trees and improving the conditions for new trees to establish. This can include site preparation and ongoing maintenance to ensure the health and longevity of the existing trees.

Tree canopies assist with regulating local climates, providing shade, reducing urban heat islands, and supporting wildlife. Keeping a continuous canopy will allow the trees to continue to support the community through soil moisture retention, air quality improvement and climate regulation.

### **4.4.2.3 Community Engagement**

To increase community awareness and engagement with protecting the existing trees and tree canopy, it is recommended to involve the community with planting. Involving



the community will foster a sense of ownership of the park. Community engagement can be completed through group planting events, educational workshops, community gardens, hosting tree walks, and tree adoption & memorial programs.

#### **4.4.2.4 Maintenance**

Adaptive management—monitoring and adjusting practices over time—is recommended to maintain existing trees and encourage the growth of future ones. Regular assessments of tree growth, health, and ecosystem responses will provide valuable insights for sustaining the forest canopy. Considering future climate scenarios is crucial for enhancing tree resilience, including the selection of native, drought- and pest-tolerant species. Additionally, adaptive forest management—which involves flexible planning, implementation, monitoring, and adjustments regarding tree planting—can strategically strengthen the canopy and overall health of the vegetation community.

## 5. Life Cycle Costing

The cost estimates provided within the report should be considered Class “D” estimates (+ or – 25 percent of expected actual costs). The cost estimates have been provided as a preliminary estimate of the expected costs to repair, replace, or decommission an asset as identified by AECOM. The costs were determined through the identification of the remaining lifespan for an asset or component and estimating the element replacement costs and/or a reasonable lump sum for the recommended work.

The cost estimates are prepared in 2024 Canadian Dollars (the year of the assessment and report) and include a 15 percent contingency fee to account for unforeseen costs plus a 15 percent contingency fee to cover applicable consulting fees but does not include taxes.

### 5.1 Definitions

#### **Current Replacement Value**

The value is the cost to rebuild or replace the equivalent asset, including material, labour and design costs. The estimate does not include taxes, or any required site preparation works (i.e., geotechnical and environmental investigation) that may be required.

#### **Replacement Cost Date**

The date the replacement cost was acquired.

#### **Inflation Rates**

For the purposes of this report the inflation rate is 3 percent.

#### **Present Value Analysis**

Present value analysis involves calculating the cost in present day dollars. For future years the current estimate “C” is increased to account for inflation “i”, which is as follows:

$$C_n = C(1+i)^n$$

The present value “PV” of a capital expenditure “C” in year “n” at a discount rate “r” (2%) can be calculated as follows:

$$PV = \frac{C}{(1+r)^n}$$

The residual salvage value of the asset is considered as a reduction to the life cycle costs at the end of the analysis and is calculated as a percentage of the life remaining in the most recent work scheme proposed for the structure.

## 5.2 Park Amenities Estimated Service Lives (ESL)

The following chart outlines the typical Estimated Service Life (ESL), in years, for the various types of assets found within Victoria Park, from the date the asset was installed or implemented.

| No. | Asset                              | ESL      |
|-----|------------------------------------|----------|
| 1   | Trees                              | 40 years |
| 2   | Irrigation                         | 25 years |
| 3   | Landscaping & Turf                 | 80 years |
| 4   | Trash Containers                   | 15 years |
| 5   | Benches (Composite)                | 15 years |
| 6   | Picnic Tables                      | 15 years |
| 7   | Paved Walkways                     | 25 years |
| 8   | Lighting                           | 20 years |
| 9   | Paved Parking Lot and Access Roads | 20 years |
| 10  | Fencing                            | 20 years |
| 11  | Signs                              | 10 years |

All bridge pricing assumes the maintenance life on components as noted in Table 2. Bridges are typically maintained at a minimum 30 year cycle, depending on their age and the level of usage.

**Table 2: Pedestrian Bridge Component Service Life**

| Component                           | Maintenance Life |
|-------------------------------------|------------------|
| Concrete Patches                    | 5 to 15 years    |
| Concrete Refacing (reinforced)      | 10 to 20 years   |
| Bearings                            | 25 to 50 years   |
| Steel Pedestrian Bridge             | 30 years         |
| Steel Coating (Zinc/Vinyl)          | 20 years         |
| Steel Coating (Hot Dip Galvanizing) | 20 years         |
| Timber Deck                         | 20 to 30 years   |

## 6. Project Prioritization

### 6.1 Prioritization Goals

**Goal 1:** Renew and Upgrade Existing Facilities & Infrastructure

- Renovate, enhance, and/or repurpose facilities and/or infrastructure to meet the community's current and future needs.
- Invest in renewing and upgrading facilities by monitoring infrastructure conditions and usage, and by creating opportunities for year-round park use.

**Goal 2:** Address Facility Gaps and Growth-Related Needs

- Acknowledge and address population growth, demographic changes, and historical patterns of the park, its users, and larger community that contribute to the gaps.
- Provide new park facilities to services the needs of a diverse community.

**Goal 3:** Explore New Opportunities

- Look to create, connect and improve partnerships with other facilities, institutions, and communities to address required improvements and/or enhancements to the park.
- Provide opportunities for public access to accessible, safe, year-round usable spaces.

### 6.2 Evaluation Criteria

To evaluate the project prioritization options for Victoria Park, AECOM has developed a matrix that tabulates existing park assets and assesses their core characteristics, environmental impacts, financial viability, and Health, Safety, and Recreation potential. The evaluation criteria are defined below and scored on a ten-point scale (per sub-category), with high scores indicating projects with higher priority.

**Core Characteristics:**

- Is it a renewal or upgrade to an existing facility/infrastructure (1 point) or a new opportunity (1 point)?
- Will the work contribute to the community growth and contribute to a community with diverse cultural backgrounds, occupations and incomes? (if yes, 2 points)



- Are there energy savings with the work? High (3 points), medium (2 points), or low (1 point). 0 points if there are no emergency savings with the work.
- Will the work reduce the consequences of failure? High (3 points), moderate (2 points), or low probability (1 point).
- Can the work be implemented using available space? (if yes, 1 point)

### **Environmental Impacts**

- Will the work promote naturalistic character, environmental education, stewardship and sustainability? (if yes, 4 points)
- Does the work preserve or enhance the natural habitat for wildlife, including protected and conserved areas? (if yes, 3 points)
- Does the work protect nature, trees and natural areas in the park, contributing to the overall nature and tree canopy of the city? (if yes, 3 points)

### **Financial Viability**

- Does the work support recreational activities with potential to generate revenue? (if yes, 2 points)
- Does the City have the funds to maintain, repair, or replace the asset? (if yes, 2 points)
- Will there be an opportunity for cost savings if it is co-ordinated with another project? (if yes, 1 point)
- Will the work reduce operations and maintenance costs? (if yes, 1 point)
- Are there existing utilities and infrastructure that will support the project (2 points) or are new utilities and infrastructure required? (1 point)
- Are there grants or additional funding available to support the work? (if yes, 2 points)

### **Health, Safety, and Recreation Potential**

- Will the work promote health, safety, and wellness? (if yes, 1 point)
- Will the work promote and encourage public safety and crime prevention through environmental design? (CPTED) (if yes, 2 points)
- Will the work promote accessibility and contribute to making Ontario accessible? (if yes, 2 points)
- Does the work create a positive park environment contributing to the user's positive mental health? (if yes, 1 point)
- Does the work contribute to a walkable and bikeable city? (if yes, 2 points)

- Does the work support social gatherings, events, and activities for all users?  
(if yes, 2 points)

## 6.3 Prioritization Matrix

Refer to Section 6.4 for a detailed breakdown of the prioritization scores, infrastructure recommendations and proposed time frames.

|                                 | Core Characteristics | Environmental Impacts | Financial Viability | Health, Safety, and Recreational Potential | Total Score |
|---------------------------------|----------------------|-----------------------|---------------------|--------------------------------------------|-------------|
| Swings                          | 5                    | 0                     | 4                   | 3                                          | 12          |
| Playgrounds                     | 7                    | 4                     | 4                   | 6                                          | 21          |
| Fitness Equipment               | 7                    | 0                     | 4                   | 6                                          | 17          |
| Splash pad                      | 10                   | 0                     | 6                   | 6                                          | 22          |
| Basketball Court                | 5                    | 0                     | 4                   | 7                                          | 16          |
| Water Features                  | 1                    | 0                     | 2                   | 3                                          | 6           |
| Entry Features / Gates          | 4                    | 0                     | 2                   | 0                                          | 6           |
| Picnic Shelter                  | 1                    | 0                     | 4                   | 1                                          | 6           |
| Clock Tower                     | 4                    | 0                     | 4                   | 0                                          | 8           |
| Kitchener Rotary Band Stand     | 0                    | 0                     | 0                   | 0                                          | 0           |
| Jubilee Comfort Station         | 6                    | 0                     | 6                   | 0                                          | 12          |
| Seasonal Comfort Station        | 6                    | 0                     | 6                   | 0                                          | 12          |
| Front Garage                    | 6                    | 0                     | 6                   | 0                                          | 12          |
| Machine Shop                    | 6                    | 0                     | 6                   | 0                                          | 12          |
| Rink Shack                      | 6                    | 0                     | 6                   | 4                                          | 16          |
| Summer Kitchen                  | 6                    | 0                     | 6                   | 2                                          | 14          |
| Pergola 1                       | 4                    | 0                     | 6                   | 0                                          | 10          |
| Pergola 2                       | 4                    | 0                     | 6                   | 0                                          | 10          |
| Utility Shed                    | 6                    | 0                     | 6                   | 0                                          | 12          |
| Bridge 876                      | 4                    | 7                     | 6                   | 0                                          | 17          |
| Bridge 877                      | 0                    | 0                     | 0                   | 0                                          | 0           |
| Bridge 1027                     | 4                    | 7                     | 6                   | 0                                          | 17          |
| Bridge 1117                     | 4                    | 7                     | 6                   | 0                                          | 17          |
| Benches                         | 4                    | 0                     | 4                   | 5                                          | 13          |
| Waste Receptacles               | 4                    | 0                     | 4                   | 3                                          | 11          |
| Bollards                        | 4                    | 0                     | 4                   | 5                                          | 13          |
| Picnic Tables                   | 4                    | 0                     | 4                   | 5                                          | 13          |
| Moveable Planters               | 2                    | 7                     | 1                   | 3                                          | 13          |
| Bicycle Racks                   | 4                    | 0                     | 4                   | 5                                          | 13          |
| Public Art/Sculptures           | 4                    | 4                     | 4                   | 1                                          | 13          |
| Monuments / Plaques             | 4                    | 4                     | 4                   | 1                                          | 13          |
| Signage                         | 4                    | 4                     | 4                   | 1                                          | 13          |
| Water, Sanitary and Stormwater  | 1                    | 0                     | 2                   | 0                                          | 3           |
| Irrigation System               | 8                    | 7                     | 3                   | 0                                          | 18          |
| Structures & Below Grade Assets | 1                    | 0                     | 2                   | 0                                          | 3           |
| Paving Condition                | 5                    | 7                     | 3                   | 10                                         | 25          |

## 6.4 Victoria Park Prioritization

Priority Score is based on the cumulative score from the four subcategories within **Section 6.2 Evaluation Criteria**.

### Timeframe to Complete

- Immediate = less than 1 Year
- Short = 1 to 5 Years
- Mid = 5 to 10 Years
- Long = 10 plus Years

## 6.4.1 Facilities and Amenities

### 6.4.1.1 Playground, Swings & Fitness Equipment

#### **Priority Score for Swings** - 12 points total

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), reducing consequences of the existing structure failing (3 points), and the work being implemented using available space (1 point). Total of 5 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the opportunity for cost savings if it is co-ordinated with another project (1 point), and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential were derived from the possibility of the work promoting accessibility and contributing to making Ontario accessible (2 points) and creating a positive park environment contributing to the user's positive mental health (1 point). Total of 3 points.

#### **Priority Score for Playground** – 20 points total

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), contributing to the community growth and a community with diverse cultural backgrounds, occupations and incomes (2 points) reducing consequences of the existing structure failing (3 points), and the work being implemented using available space (1 point). Total of 7 points.
- ◆ Environmental points were derived from the possibility of the work promoting naturalistic character, environmental education, stewardship and sustainability through the implementation of natural playgrounds. (4 points)
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), opportunity for cost savings if it is co-ordinated with another project (1 point), and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential points were derived from the work promoting health, safety and wellness (1 point), the possibility of the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park

environment contributing to the user's positive mental health (1 point) and supporting social gatherings, events, and activities for all users (2 points). Total of 6 points.

### **Priority Score for Fitness Equipment** – 17 points

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), contributing to the community growth and a community with diverse cultural backgrounds, occupations and incomes (2 points), reducing consequences of the existing structure failure (3 points), and the work being implemented using available space (1 point). Total of 7 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), opportunity for cost savings if it is co-ordinated with another project (1 point), and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential points were derived from the work promoting health, safety and wellness (1 point), the possibility of the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health and supporting social gatherings, events, and activities for all users (2 points). Total of 6 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Monitor damaged and wearing playground equipment, completing regular inspections. Mid / Long-term timeframe to complete.
- ◆ Ensure all playground and fitness equipment have manufacturer and user age group label(s). Short-term timeframe to complete.
- ◆ Repair or replace rubber surfacing. Short-term timeframe for immediate repairs or replacements; mid-term timeframe for drop test, cleaning and regular inspections; long-term timeframe for repairs and replacements as required.
- ◆ Adjust glider at play structure Area 1 to be level and reduce trip hazards. Short-term timeframe for glider adjustment; Mid / Long-term timeframe for inspections.
- ◆ Engineering wood fibre surfacing – top up EWF annually. Short / mid / long-term timeframe to complete.
- ◆ Wood chip surfacing – top up wood chips. Short / mid / long-term timeframe.
- ◆ Sand surfacing – loosen sand, top-up and replace. Short-term timeframe to loosen sand; mid-term timeframe to top-up and loosen sand; long-term timeframe to replace and loosen existing sand.
- ◆ Include accessible playground equipment in the four (4) playground areas. Short / mid-term timeframe to complete.



- ◆ Filling the gaps between the armour stone retaining wall in playground area two (2) to reduce potential foot entrapment hazard. Immediate timeframe to complete.
- ◆ Investigate opportunities to increase fitness area due to increased user activity. Short / mid-term timeframe to complete.
- ◆ Provide accessible pathways to the four (4) playground areas and fitness area. Short-term timeframe to complete.

#### **6.4.1.2 Splash Pad**

##### **Priority Score for Splash Pad** – 22 points

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), contributing to the community growth and a community with diverse cultural backgrounds, occupations and incomes (2 points), the work providing high energy savings (3 points), reducing consequences of the existing structure failure (3 points), and the work being implemented using available space (1 point). Total of 10 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point) and the possibility to utilize existing utilities that will support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential points were derived from the possibility of the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health and supporting social gatherings, events, and activities for all users (2 points) and supporting social gatherings, events and activities for all users. (2 points) Total of 6 points.

##### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Provide a safe environment for children to play including updates and/or maintenance to ensure the playground is safe and usable during the review of potential splash pad upgrades/replacements. Immediate timeframe to complete.
- ◆ Investigate the inclusion of fencing to keep geese out of the splash pad area. Inclusion of short term (temporary) and long term (permanent) fencing should be reviewed. Fencing implementation can assist with creating a safe and clean (free of geese feces) splashpad area for children to play. Short / Mid-term timeframe to complete.
- ◆ Provide formal seating and opportunities to sit and play in the shade. Short / mid-term timeframe to complete.

- ◆ Remove, replace and install new splashpad features and elements. Short / mid-term timeframe to complete.
- ◆ Regrade the surrounding splashpad to provide a level pad around the perimeter with a slope to the centre, including the addition of multiple drains. Short / mid-term timeframe to complete.
- ◆ Provide a splash pad that reflects and designates zones of use for varying ages and abilities. Short / mid-term timeframe to complete.
- ◆ Replace the existing subterranean vault with an above grade cabinet or bunker style building to house the mechanical equipment. Short / mid-term timeframe.

### **6.4.1.3 Basketball Court**

#### **Priority Score for Basketball Court – 16 points**

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), contributing to the community growth and a community with diverse cultural backgrounds, occupations and incomes (2 points), reducing consequences of the existing structure failure (1 points), and the work being implemented using available space (1 point). Total of 5 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), opportunity for cost savings if it is co-ordinated with another project (1 point), and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential points were derived from the work promoting health, safety and wellness (1 point), the possibility of the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health and supporting social gatherings, events, and activities for all users (2 points) and supporting social gatherings, events and activities for all users. (2 points) Total of 7 points.

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Repair pavement structure and placement of basketball nets in relation to the run-out safety zone. Short / mid-term timeframe to complete.
- ◆ Provide lighting at basketball court and picnic shelter. Immediate / short-term timeframe to complete.
- ◆ Investigate relocation of basketball court in relation to picnic shelter and surrounding elements. The basketball court is tucked into a corner near the picnic shelter and should have its own area that allows for people to use the court without interrupting family picnics and have clear space around the basketball court as a run-out zone

where the users do not have to potentially run into picnic tables or barbeques. Mid-term timeframe to complete.

- ◆ Provide formal seating opportunity for players and spectators. Short-term timeframe.

#### 6.4.1.4 Water Features

##### **Priority Score for Water Features** – 6 points

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point)
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points)
- ◆ Health, Safety and Recreation Potential points were derived from the work promoting health, safety and wellness (1 point), and the work promoting and encouraging public safety and crime prevention through environmental design (2 points). Total of 3 points.

##### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Assess safety including fall heights and access to open water (water fountain, ponds by clock tower and Victoria Lake). Immediate / Short-term timeframe to complete.

#### 6.4.1.5 Entry Features / Gates

##### **Priority Score for Entry Features / Gates** – 3 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of the entry features failing (2 points), and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points)
- ◆ Health, Safety and Recreation Potential – 0 points

##### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Enhance and aid in park identity through entry features and gateways. Mid / long-term timeframe to complete.
- ◆ Monitor the health of the piers on a six (6) month or annual basis. Implement necessary maintenance to maintain structural integrity and appearance of cobble faced piers. Short / mid / long-term timeframe to complete.

## 6.4.1.6 Buildings and Structures

### 6.4.1.6.1 Picnic Shelter

#### **Priority Score for Picnic Shelter** – 6 points

- ◆ Core Characteristics points were derived from the work being an existing asset (1 point), the work contributing to the community growth and contributing to a community with diverse cultural backgrounds, occupations and incomes (2 points), and the work can be implemented using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the opportunity for cost savings if it is co-ordinated with another project (1 point), and the work will reduce operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential were derived from the work contributing to a positive park environment contributing to the user's positive mental health by providing an area to gather. (1 point)

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Improve lighting and visibility through Crime Prevention Through Environmental Design (CPTED). Short-term timeframe to complete.
- ◆ Repave asphalt surface under picnic shelter to reduce possibility of slips, trips and falls. Mid-term timeframe to complete.
- ◆ Provide new charcoal disposal units. Mid / long-term timeframe to complete.
- ◆ Investigate the opportunity to provide community barbeques. Mid / long-term to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

### 6.4.1.6.2 Clock Tower

#### **Priority Score for Clock Tower** – 8 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it



is co-ordinated with another project (1 point), and the work reducing operations and maintenance costs (1 point). Total of 4 points.

- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Clock Tower are mid / long-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.3 Kitchener Rotary Band Stand**

##### **Priority Score for Kitchener Rotary Band Stand** – 0 points

- ◆ The Kitchener Rotary Band Stand was updated in 2024 and does not currently require additional recommendations.

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The 2021 Building Condition Assessment by Tacoma Engineering found the band stand to be in good condition but had a series of primarily aesthetic restorations that were completed in 2024.
- ◆ The remaining upgrades, renovations and replacements for the Victoria Park Band Stand are long-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.4 Victoria Park Comfort Station – Jubilee**

##### **Priority Score for Jubilee Comfort Station** – 12 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

## **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Comfort Station (Jubilee) are mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

### **6.4.1.6.5 Victoria Park Comfort Station – Seasonal**

#### **Priority Score for Seasonal Comfort Station** – 12 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

## **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Comfort Station (Seasonal) consisting of electrical, mechanical and structural are mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

### **6.4.1.6.6 Victoria Park Front Garage**

#### **Priority Score for Front Garage** – 12 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it

is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.

- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Front Garage consisting of electrical, mechanical and structural are short / mid-term timeframe to complete.
- ◆ The opportunity to insulate the building to allow for winter use should be investigated. Short / mid-term timeframe.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.7 Victoria Park Machine Shop**

##### **Priority Score for Machine Shop** – 12 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Machine Shop consisting of electrical and structural are short / mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.8 Victoria Park Rink Shack**

##### **Priority Score for Rink Shack** – 16 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential derived from the work promoting health, safety and wellness (1 point), creating a positive park environment contributing to user's positive mental health (1 point) support social gatherings, events and activities for all users (2 points). Total of 4 points.

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Rink Shack consisting of electrical, mechanical and structural are short-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.9 Victoria Park Summer Kitchen**

##### **Priority Score for Summer Kitchen** – 14 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential derived from the work supporting social gatherings, events and activities for all users (2 points).

#### **Infrastructure Recommendations and Proposed Time Frames**



- ◆ The upgrades, renovations and replacements for the Victoria Park Summer Kitchen consisting of electrical, mechanical and structural are short-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.10 Victoria Park Pergola 1**

##### **Priority Score for Pergola 1** – 10 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

##### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Pergola 1 consisting of mechanical and structural are mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.11 Victoria Park Pergola 2**

##### **Priority Score for Pergola 2** – 10 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.

- ◆ Health, Safety and Recreation Potential – 0 points

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Pergola 2 consisting of structural are mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.6.12 Victoria Park Utility Shed B**

##### **Priority Score for Utility Shed** – 12 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points), the possibility of medium energy savings with the work (2 points), and the implementation of the work using available space (1 point). Total of 6 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The upgrades, renovations and replacements for the Victoria Park Utility Shed B consisting of structural are mid-term timeframe to complete.
- ◆ For additional information regarding prioritization and required upgrades and replacements refer to the Building Condition Assessment completed by WalterFedy August 15, 2022.

#### **6.4.1.7 Pedestrian Bridges**

##### **6.4.1.7.1 Bridge 876 – Victoria Park Lake Trail Bridge Number 2**

##### **Priority Score for Bridge 876** – 17 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental derived from the work promoting natural character (4 points) and preserving and enhancing the natural habitat for wildlife (3 points). Total of 7 points.

- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Complete minor rehabilitation to add slope protection under the bridge and clean the structure to prevent corrosion. Short-term timeframe to complete.

#### **6.4.1.7.2 Bridge 877 – Pedestrian Bridge Over Victoria Lake**

##### **Priority Score for Bridge 877** – 0 points

- ◆ The bridge was updated in 2024 and does not currently require additional recommendations.

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ The bridge was under construction during the inspection and report period.
- ◆ The work being completed in 2024 as part of the improvements included, but were not limited to:
  - Replacement of the X-bracing below the deck.
  - Cleaning and coating of steel work.
  - Coating of light standard and cleaning of light fixture.
  - Installation of shim plates below some railing posts.
  - Welding of loose railing posts.
- ◆ It is anticipated that the bridge will require ongoing maintenance following the rehabilitation. Short / mid-term timeframe to complete.

#### **6.4.1.7.3 Bridge 1027 – Pedestrian Bridge Over Victoria Lake**

##### **Priority Score for Bridge 1072** – 17 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental derived from the work promoting natural character (4 points) and preserving and enhancing the natural habitat for wildlife (3 points). Total of 7 points.
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and

maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.

- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Complete minor rehabilitation and include the asphalt padding to the approaches and rock protection maintenance. Short-term timeframe to complete.

#### **6.4.1.7.4 Bridge 1117 – Victoria Park Lake Pedestrian Bridge Number 3**

##### **Priority Score for Bridge 1117** – 17 points

- ◆ Core Characteristics were derived from the work being an existing asset (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental derived from the work promoting natural character (4 points) and preserving and enhancing the natural habitat for wildlife (3 points). Total of 7 points.
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point), the work reducing operations and maintenance costs (1 point), and existing utilities and infrastructure that can support the project (2 points). Total of 6 points.
- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Complete minor rehabilitation and include the addition of rock protection on the embankment. Short-term timeframe to complete.

#### **6.4.1.8 Maintenance**

Evaluate annually to create priorities of assets to be addressed. Short-term timeframe to complete.

### **6.4.2 Site Furnishings**

#### **6.4.2.1 Benches, Trash Receptacles, Bollards and Tables**

##### **Priority Score for Benches** – 13 points

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points



- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health (1 point) and supporting social gatherings, events and activities for all users (2 points). Total of 5 points.

**Priority Score for Waste Receptacles – 11 points**

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point) and supporting social gatherings, events and activities for all users (2 points). Total of 3 points.

**Priority Score for Picnic Tables– 13 points**

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from the work promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health (1 point) and supporting social gatherings, events and activities for all users (2 points). Total of 5 points.

**Priority Score for Bollards – 13 points**

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point), contributing to a walkable and bikeable city (2 points) and supporting social gatherings, events and activities for all users (2 points). Total of 5 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Replace site furnishings to provide a cohesive family of furnishings. Site furnishings should be replaced as items are damaged or need to be repaired with a model that is cohesive and consistent throughout the park. Mid-term timeframe to complete.
- ◆ Maintenance – consisting of repainting, cleaning, repairing and replacing elements of site furnishings (bolts, boards, brackets, etc.). Short / Mid / Long-term timeframe to complete.
- ◆ Increase locations of trash receptacles based on increased areas of use within the park. Short / Mid-term timeframe to complete.
- ◆ Accessibility – ensure tables / benches have concrete pads adjacent for wheelchairs or strollers. Short / Mid-term timeframe to complete.
- ◆ Increase number of accessible tables to meet minimum City of Kitchener Urban Design Manual Accessibility Standards. Short / Mid-term timeframe to complete.

### **6.4.2.2 Monuments / Plaques**

#### **Priority Score for Monuments & Plaques – 13 points**

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental derived from the work promoting naturalistic character, environmental education, stewardship and sustainability (4 points)
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.

- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point)

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Improve visibility of existing monuments / plaques through plant colour, size and texture and placement of the pieces. Short / Mid-term timeframe to complete.
- ◆ Replace plaques that have been stolen. Short-term timeframe to complete.

### **6.4.2.3 Moveable Planters**

#### **Priority Score for Moveable Planters** – 13 points

- ◆ Core Characteristics were derived from the work being a new opportunity (1 point) and the implementation of the work using available space (1 point). Total of 2 points.
- ◆ Environmental derived from the work promoting naturalistic character, environmental education, stewardship and sustainability (4 points) and contributing to the overall nature within Victoria Park (3 points). Total of 7 points.
- ◆ Financial Viability points were derived the increased opportunity for cost savings if it is co-ordinated with another project (1 point).
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point) and promoting and encouraging public safety and crime prevention through environmental design (2 points). Total of 3 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Review the location for additional moveable planters to provide seasonal interest. Mid / Long-term timeframe to complete.

### **6.4.2.4 Bicycle Racks**

#### **Priority Score for Bicycle Racks** – 13 points

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point), contributing to

a walkable and bikeable city (2 points) and supporting social gatherings, events and activities for all users (2 points). Total of 5 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Provide cohesive bicycle rack that supports multiple bicycles. Short-term timeframe to complete.
- ◆ Increase availability of bicycle racks throughout the park at key locations (ex. Playground, picnic shelter / basketball court, Victoria Park Commons, and parking lots). Short-term timeframe to complete.

### **6.4.2.5 Public Art / Sculpture**

#### **Priority Score for Public Art & Sculptures** – 14 points

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.
- ◆ Environmental derived from the work promoting naturalistic character, environmental education, stewardship and sustainability (4 points)
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point) and creating a positive park environment contributing to the user's positive mental health (1 point). Total of 2 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Encourage public art that is representative of the community. Mid-term timeframe to complete.
- ◆ Improve the visibility of existing public art and sculptures through plant colour, size and texture and placement of the pieces. Complete regular maintenance of planting and area surrounding the existing public art and sculptures to ensure visibility. Mid-term timeframe to complete.

### **6.4.2.6 Signage**

#### **Priority Score for Signage** – 13 points

- ◆ Core Characteristics were derived from the work being an existing asset and/or new opportunity (1 point), the work reducing the consequences of failure (2 points) and the implementation of the work using available space (1 point). Total of 4 points.



- ◆ Environmental derived from the work promoting naturalistic character, environmental education, stewardship and sustainability (4 points)
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points), the increased opportunity for cost savings if it is co-ordinated with another project (1 point) and the work reducing operations and maintenance costs (1 point). Total of 4 points.
- ◆ Health, Safety and Recreation Potential derived from creating a positive park environment contributing to the user's positive mental health (1 point)

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Include and update information signage, creating an identifiable character of the park. Signage should be updated as the signs need to be repaired, replaced or new signage is added to the park. Mid-term timeframe to complete.
- ◆ Wayfinding – good condition; legible; cohesive and branding. Short / Mid-term timeframe to complete.

## **6.4.3 Park Utilities**

### **6.4.3.1 Water, Sanitary, and Stormwater (Park-specific structures)**

#### **Priority Score for Water, Sanitary and Stormwater** – 3 points

- ◆ Core Characteristics points were derived from the work being an existing facility and/or new opportunity (1 point)
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points)
- ◆ Health, Safety and Recreation Potential – 0 points

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Review current infrastructure and assess required improvements and replacements. Short / Mid / Long-term timeframe to complete.

## **6.4.3.2 Irrigation**

#### **Priority Score for Irrigation** – 18 points

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), the possibility of high energy savings (3 points), reducing the consequences of failure (3 points), and the work implemented using available space (1 point) Total of 8 points.

- ◆ Environmental derived from sustainability and stewardship (4 points), enhancing the natural habitat and protecting nature (3 points) Total of 7 points.
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points) and reducing operations and maintenance costs (1 point) Total of 3 points.
- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Review current installation, condition and location to determine repairs and replacements. Short / Mid / Long-term timeframe to complete.

#### **6.4.3.3 Electrical**

- ◆ Assess current electrical infrastructure to determine requirements for repairs and replacements. Short / Mid / Long-term timeframe to complete.
- ◆ Provide additional pedestrian scale lighting to improve safety throughout the park. Short-term timeframe to complete.

#### **6.4.3.4 Structures and Below Grade Assets**

##### **Priority Score for Structures & Below Grade Assets** – 3 points

- ◆ Core Characteristics points were derived from the work being an existing facility and/or new opportunity (1 point)
- ◆ Environmental – 0 points
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points)
- ◆ Health, Safety and Recreation Potential – 0 points

#### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Assess structures and below grade assets to determine requirements for repairs and replacements. Short / Mid / Long-term timeframe to complete.

#### **6.4.4 Park Circulation and Placemaking**

##### **6.4.4.1 Paving Condition**

##### **Priority Score for Paving Condition** – 25 points

- ◆ Core Characteristics points were derived from the work being an existing facility (1 point), reducing the consequences of failure (3 points), and the work implemented using available space (1 point) Total of 5 points.

- ◆ Environmental derived from sustainability and stewardship (4 points), enhancing the natural habitat and protecting nature (3 points) Total of 7 points.
- ◆ Financial Viability points were derived from the City having the funds to maintain, repair or replace the asset (2 points) and reducing operations and maintenance costs (1 point) Total of 3 points.
- ◆ Health, Safety and Recreation Potential derived from the work promoting health, safety and wellness (1 point), promoting and encouraging public safety and crime prevention through environmental design (2 points), promoting accessibility and contributing to making Ontario accessible (2 points), creating a positive park environment contributing to the user's positive mental health (1 point), contributing to a walkable and bikeable city (2 points) and supporting social gatherings, events and activities for all users (2 points). Total of 10 points.

### **Infrastructure Recommendations and Proposed Time Frames**

- ◆ Ensure pavement structure is adequate for intended use (maintenance pathways for vehicles are to be widened and strengthened for intended vehicle load weight). Short-term timeframe to complete.
- ◆ Ensure pathways throughout the park are accessible to all users. Immediate / Short-term timeframe to complete.
- ◆ Repair or replace pathways as required based on the paving condition assessment and continual monitoring of asphalt and concrete to reduce cracking, potholes and uneven surfaces causing tripping hazards. Immediate / Short / Mid / Long-term timeframe to complete.
- ◆ Complete continued inspections and maintenance to ensure the pathways are kept in good condition to reduce safety concerns. Immediate / Short-term timeframe to complete.
- ◆ Incorporate data collected through the visual sensors within the park, analyzing and capturing the count, modes of transportation and movement data for park users. Short-term timeframe to complete.

### **6.4.4.2 Indigenous**

- ◆ Consult local indigenous groups for input and representation within the park (e.g., Recognition bench, orange footprints, plaque). Immediate timeframe to complete.
- ◆ Provide a dedicated area for indigenous cultural events, ceremonies and reflection. Short-term timeframe to complete.

### **6.4.4.3 Park Usage and Pedestrian Movement**

- ◆ Widen paths and/or separate bicycle use to create safer environment for pedestrians (possible separate path or designated bicycle area). Short / Mid-term timeframe to complete.
- ◆ Identify where additional traffic calming, bicycle and pedestrian improvements are needed. Short-term timeframe to complete.

### **6.4.4.4 Vehicular Movement**

- ◆ Investigate the addition of parking throughout the park to accommodate the increased users. Mid / Long-term timeframe to complete.

### **6.4.4.5 Social Interaction**

- ◆ Create and enhance public plazas and gathering spaces. Short-term timeframe to complete.
- ◆ Provide improvements to the food truck space (Dill Street entrance area), to accommodate additional food trucks and spaces for people to gather and enjoy the food. Short-term timeframe to complete.
- ◆ Implement crosswalk visibility enhancements at all sidewalks, trail and road crossings. Short-term timeframe to complete.



## 7. Conclusion

This report outlines several recommendations to enhance Victoria Park's inventory, which is overall in good to fair condition and positively contributes to the park's history and character. However, there are aspects that should be addressed in the short to intermediate term.

### **Program Areas**

The Playground, Splash Pad, and Fitness areas require expansion to accommodate increased usage driven by a growing population. Upgrades should incorporate accessible features so users of all abilities can participate. Additionally, surfaces in these areas must be improved to eliminate ruts and cracks and to ensure smooth transitions between adjacent pathways and uses.

Additional accessible seating should be installed throughout the park in accordance with the City of Kitchener's accessibility standards and guidelines.

### **Circulation**

The pedestrian pathway network should be repaved, with increased widths and revised slopes to provide safe, accessible routes for pedestrians and cyclists. Special attention is needed for areas where maintenance vehicles require access, ensuring that pathways are wide enough for vehicles without damaging the surrounding softscape.

### **Lighting**

The park requires additional lighting to enhance safety and visibility. Several areas—such as near the Summer House Kitchener building, maintenance building, Iron Horse Trail connection, picnic shelter, pedestrian bridge #1027, and other spots where vegetation obstructs streetlight coverage—are poorly lit or unlit during dark hours, creating unsafe and underutilized spaces.

### **Site Furnishings and Signage**

As site furnishings are upgraded and repaired, a cohesive design should be established. This includes a consistent colour palette, similar shapes and styles, uniform scale and proportion, and the use of compatible materials and finishes. Arranging furnishings in functionally logical groups for different park sections will create a unified look.

Clear and simple wayfinding signage is recommended to guide visitors throughout the park. The signage should feature legible text and graphics, consistent colour schemes, and standardized icons and symbols. It should be placed at key decision points—approximately every 6 to 12 metres—and in well-lit locations. This initiative also provides an opportunity for the City of Kitchener to incorporate its brand colours, logos, and design elements, reinforcing a cohesive aesthetic across Victoria Park and the city.

## 8. References

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# Appendix A

## Victoria Park Key Plan



VICTORIA PARK KEY PLAN



LEGEND

- GREAT LAWN AREA
- NORTH PEDESTRIAN ZONE
- VICTORIA PARK LAKE
- SOUTH PEDESTRIAN ZONE & PLAYGROUNDS
- PARK LIMITS





# Appendix B

## Amenity Glossary



## Pathway Lights



**Round Globe**

Supplier: Unknown



**Valmont**

Supplier: West Coast Engineering



**Victorian Globe**

Supplier: Unknown



## **Benches**



**Bike Bench**

Supplier: MMCITE Woody Bench (LWD 150-01)

Details: Embedded in Concrete Pad



**Bleacher Guys Bench**

Supplier: Bleacher Guys



**Maglin Bench**

Supplier: Maglin



**Recognition Bench**

Supplier: Unknown



**Robin Galva Frame Bench**

Supplier: Michael's Stabling Developments Inc.



**Victorian Memorial Bench**

Supplier: Toronto Fabricating & Manufacturing Company  
Model: #7170-6 Bench.

Details: Solid cast aluminum 356 alloy primed/powder coated black. Surface mounted.



## **Benches (Cont'd)**



**Victorian Bench with Midbar**  
Supplier: Unknown



**Victorian Bench**  
Supplier: Unknown



## **Bike Racks**



**Lollipop Bike Rack**  
Supplier: Unknown



**Maglin Bike Rack**  
Supplier: Maglin



**Quad Bike Rack**  
Supplier: Bike-Up Bicycle Parking Systems Inc.



## **Bollards**



**Fluted Bollard**

Supplier: Toronto Fabricating & Manufacturing

Model: TFMC Style #3183



**Post Guard**

Supplier: PostGuard.com

Details: Blue bollard cover c/w white reflective tape.



**Timber Bollard**

Supplier: Unknown



**Metal Bollard with Reflective Tape**

Supplier: Unknown



## Picnic Tables



**Bleacher Guys 6'**

Supplier: Bleacher Guys

Model: LT6 - Heavy Duty, Two-Sided



**Square Quad Accessible**

Supplier: Unknown



**Square Quad**

Supplier: Unknown



**Steel Frame Wood Plank 6'**

Supplier: Unknown



**Steel Frame Wood Plank 8'**

Supplier: Unknown



**Wooden 6'**

Supplier: Unknown



## Waste Receptacles



**Ash Urn**  
Supplier: Unknown



**Burn Bin Waste Receptacle**  
Supplier: Unknown



**Large Molok**  
Supplier: Molok  
Model: M3000 or  
Molok Classic 3 m3



**Medium Molok**  
Supplier: Molok  
Model: Molok Classic 1.3 m3



**Metal Decorative Waste Receptacle**  
Supplier: Unknown



**Small Molok**  
Supplier: Molok  
Model: M300 or Molok Classic 800 L



## Waste Receptacles (Cont'd)



**Victor Stanley Waste Receptacle**  
Supplier: Victor Stanley

## Gates



**Pedestrian Gate Fluted**  
Supplier: Unknown

## Temporary Installations



**Yellow Plastic Salt Storage Bin**  
Supplier: Tillson Brands

# Appendix C

## Inventory Data



Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code | Component                      | Sub-Component               | Material                                                                                | Manufacturer / Artist | Serial Number                            | QTY/Units of Measure | Additional Info                                                                                                                                                                                                                                                                              | Condition        | Commentary                                                                                                                                                                                                                                                                                                                                                                                     | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|--------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------|------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings   | Waste Receptacle               | Moloks                      | Composite Framing & Recycled Plastic Ltd                                                | Molok                 | -                                        | Size: M-300 (small)  |                                                                                                                                                                                                                                                                                              | Good             | Graffiti on composite framing slats                                                                                                                                                                                                                                                                                                                                                            | Repair            | Remove graffiti from composite slats                                                                                                                                                                                                                                                                                                                                                            |
| Furnishings   | Signage                        | -                           | Steel post                                                                              | -                     | -                                        | 1 unit               | Direct bury informational sign for pond (Victoria Park Lake Beyond its Beauty)                                                                                                                                                                                                               | Very Good        | Information sign is in good condition                                                                                                                                                                                                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Bench                          | Memorial                    | Metal Frame and wood slats                                                              | -                     | -                                        | 1 unit               | Surface mounted on concrete pad                                                                                                                                                                                                                                                              | Very Good        |                                                                                                                                                                                                                                                                                                                                                                                                | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Waste Receptacle               | Barrels                     | Steel with green paint                                                                  | -                     | -                                        | 1 unit               | Moveable unit                                                                                                                                                                                                                                                                                | Fair             | Bottom third of trash receptacle is rusted and has a few dents.                                                                                                                                                                                                                                                                                                                                | Monitor           | Localized rust along bottom of trash receptacle. Monitor rust progression, repair and replace as required when the bottom of the trash receptacle does not perform as required due to a rusted out bottom.                                                                                                                                                                                      |
| Furnishings   | Waste Receptacle               | Barrels                     | Steel with green paint                                                                  | -                     | -                                        | 1 unit               | Moveable unit; City of Kitchener logo and label for 'No Household Waste'                                                                                                                                                                                                                     | Fair             | Bottom 2-3" of trash receptacle is rusted and has been dented. Multiple rusted scratches throughout the paint on the sides of the receptacle                                                                                                                                                                                                                                                   | Monitor           | Localized rust along the bottom and around the sides of the receptacle. Monitor rust progression, repair and replaced as required when the bottom of the trash receptacle does not perform as required due to a rusted out bottom.                                                                                                                                                              |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length            | -                                                                                                                                                                                                                                                                                            | Good             | A small amount of discoloration on the wood planks.                                                                                                                                                                                                                                                                                                                                            | Optional Repair   | The planks could be sanded, varnished or painted, but no immediate action is required for the structure of the table.                                                                                                                                                                                                                                                                           |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 8' length; 2 units   | -                                                                                                                                                                                                                                                                                            | Poor             | The steel frame of the picnic tables is beginning to rust and the paint is wearing off. The structure of the bench appears to be in good condition.                                                                                                                                                                                                                                            | Monitor           | The structure of the bench appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. The paint on the wood slats is in good condition and does not require any touchups at the time of inspection.                                                                                                                                            |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 6 units   | -                                                                                                                                                                                                                                                                                            | Good             | Some benches have the wood planks finished with paint and others do not have any paint.                                                                                                                                                                                                                                                                                                        | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish.                                                                                                                                                                                                                                                                                           |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit    | Support bars connecting to the table frame and wood planks has recently been replaced                                                                                                                                                                                                        | Fair             | Wood planks on the table and seats are in good condition. The steel frame for the table is rusted, except for the support bars connecting the frame to the wood planks.                                                                                                                                                                                                                        | Monitor           | The structure of the bench is to be monitored to ensure the rusting does not structurally impact the bench. If the rust continues and impacts the structural integrity of the bench, the bench should be replaced.                                                                                                                                                                              |
| Furnishings   | Picnic Table                   | Square Quad                 | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit               | Square table with centre post and 4 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                                                                              | Good             | The bench is located with a square concrete pad under the seating section. The centre post is direct buried into the centre of the concrete pad. The structure and wooden planks are in good condition.                                                                                                                                                                                        | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Picnic Table                   | Square Quad                 | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit               | Square table with centre post and 4 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                                                                              | Good             | The bench is located with a square concrete pad under the seating section. The centre post is direct buried into the centre of the concrete pad. The structure and wooden planks are in good condition.                                                                                                                                                                                        | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Picnic Table                   | Square Quad - Accessible    | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit               | Square table with centre post and 3 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                                                                              | Good             | The bench is located on gravel screening. The structure and wooden planks are in good condition. Providing 3 wooden bench seats allow for an accessible seating option. The table location is not adjacent to a pathway but located between a path and the basketball court and the gravel screening could provide challenging access for individuals utilizing the accessible seating option. | Accessible Repair | The addition of a paved access pathway to the table will increase the accessibility of the table. The gravel screening could pose a mobility issue depending on the condition of the granular, the compaction, and if the granular is wet.                                                                                                                                                      |
| Furnishings   | Picnic Table                   | Square Quad - Accessible    | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit               | Square table with centre post and 3 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                                                                              |                  | The bench is located on gravel screening. The structure and wooden planks are in good condition. Providing 3 wooden bench seats allow for an accessible seating option. The table location is not adjacent to a pathway but located between a path and the basketball court and the gravel screening could provide challenging access for individuals utilizing the accessible seating option. | Accessible Repair | The addition of a paved access pathway to the table will increase the accessibility of the table. The gravel screening could pose a mobility issue depending on the condition of the granular, the compaction, and if the granular is wet.                                                                                                                                                      |
| Furnishings   | Signage                        | -                           | Aluminum                                                                                | -                     | -                                        | 1 unit               | Caution slippery sign                                                                                                                                                                                                                                                                        | Good             | Sign is in good condition                                                                                                                                                                                                                                                                                                                                                                      | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Signage                        | -                           | Aluminum                                                                                | -                     | -                                        | 2 units              | Aluminum post with two signs, one 'practice water safety' sign and one 'keep the wildlife' sign.                                                                                                                                                                                             | Good             | Sign is in good condition, but the post is leaning                                                                                                                                                                                                                                                                                                                                             | Repair            | Sign is to be straightened to ensure visibility.                                                                                                                                                                                                                                                                                                                                                |
| Furnishings   | Statue, Monument & Art Feature | Art Feature                 | Aluminum, mirror-polished stainless steel and bermed landscape                          | Brian Scott           | -                                        | 1 unit               | Canoe art piece installed in 1997. Surrounding landscape has been graded to create 'landscaped waves'. The interior of                                                                                                                                                                       | Good             | Commissioned through a National Public Art Competition                                                                                                                                                                                                                                                                                                                                         | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                               |
| Furnishings   | Statue, Monument & Art Feature | Art Feature                 | Bronze plaque on concrete pad                                                           | -                     | -                                        | 1 unit               | Location and placement of the plaque is easily missed. The plaque is located on a concrete pad adjacent to the path, away from the art installation and can be covered in leaves and overgrown grass if not maintained.                                                                      | Fair             | Bronze plaque is weathered, worn and chipped around the edges. The concrete pad has also been chipped, and worn down.                                                                                                                                                                                                                                                                          | Replace           | The replace of the plaque will provide recognition to the artist that commissioned "The Canoe" art installation. The replacement of the plaque will allow it to be installed at a location and height that is visible to park visitors as it is easily missed.                                                                                                                                  |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit    | -                                                                                                                                                                                                                                                                                            | Good             | The table has an abundance of graffiti on the table and seats.                                                                                                                                                                                                                                                                                                                                 | Repair            | For a consistent look across all picnic tables, the tables could all include the same painted finish and removal of graffiti.                                                                                                                                                                                                                                                                   |
| Furnishings   | Information Sign               | -                           | Steel post                                                                              | -                     | -                                        | 1 unit               | Please Do Not Feed the Ducks, Gulls & Geese' information sign located adjacent to Victoria Park Lake on the splash pad side                                                                                                                                                                  | Good             | The sign has a few small marks on it and appears to have minor peeling at the edges.                                                                                                                                                                                                                                                                                                           | N/A               | The sign is to be monitored for future damage and additional peeling at the edge of the sign.                                                                                                                                                                                                                                                                                                   |
| Furnishings   | Picnic Table                   | Wooden 6'                   | Wood picnic table                                                                       | -                     | -                                        | 6' length; 1 unit    | -                                                                                                                                                                                                                                                                                            | Good             | The table has some graffiti on the table.                                                                                                                                                                                                                                                                                                                                                      | Repair            | For a consistent look across all picnic tables, the tables could all include the same painted finish and removal of graffiti.                                                                                                                                                                                                                                                                   |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad                   | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit               | An asphalt pathway connects the concrete bench pad to the trail creating an accessible route for the bench. The bench pad is also larger providing the option for a wheelchair or stroller beside the bench. The bench does not have a mid-back support. Memorial to Daniel Alexander George | Good             | The concrete bench pad is not flush with surrounding grade/grass along the front portion (water's edge) and the left side (away from the connecting pathway). The bench has some graffiti.                                                                                                                                                                                                     | Repair            | The grade surrounding the concrete bench pad should be flush providing a smooth transition. The graffiti should be removed from the bench.                                                                                                                                                                                                                                                      |
| Furnishings   | Information Sign               | -                           | Steel post                                                                              | -                     | -                                        | 1 unit               | Please Do Not Feed the Ducks, Gulls & Geese' information sign located adjacent to Victoria Park Lake on the Jubilee Drive side                                                                                                                                                               | Fair             | The sign has small marks across the span of the information sign and appears to have minor peeling at the edges. The sign is surface mounted with 1 of the 4 bolts rusted and bent.                                                                                                                                                                                                            | Repair            | The bolt at the base of the sign post should be replaced to ensure it does create a safety issue and to ensure the sign is properly installed. The sign is to be monitored for future damage and additional peeling at the edge of the sign. The sign is still legible at the time of the site inspection, but the additional peeling and damage to the sign will cause it to become illegible. |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit               | The bench does not have a memorial or dedicated plaque. The bench has a mid-back and seat support bar along the back and underneath.                                                                                                                                                         | Good             | The location of the concrete bench pad does not have an accessible route connecting the bench to the pathway. The bench is not flush with surrounding grade/grass along all four sides of the pad.                                                                                                                                                                                             | Optional Repair   | Ensuring the concrete bench pad is flush will provide a smooth transition to the bench and reduce the opportunity for trips.                                                                                                                                                                                                                                                                    |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit               | The bench does not have a memorial or dedicated plaque. The bench has a mid-back and seat support bar along the back and underneath.                                                                                                                                                         | Poor / Very Poor | Two of the four bolts on the surface mounted legs are missing. One of the two bolts remaining can be taken out by hand, leaving one bolt holding the bench in place. Approximately 200mm deteriorating paving between asphalt trail and concrete bench pad. The arms and legs of the bench have paint peeling.                                                                                 | Repair            | At a minimum, the bench bolts need to be replaced to ensure park visitors can safely use the bench without it tipping backwards. The bench arms and legs can be repainted to reduce further opportunities for paint peeling and the chance of the bench rusting at these locations.                                                                                                             |



Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code | Component                      | Sub-Component               | Material                                                                                | Manufacturer / Artist | Serial Number                            | QTY/Units of Measure                | Additional Info                                                                                                                                               | Condition | Commentary                                                                                                                                                                                                                                                                                                                  | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|--------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings   | Signage                        | -                           | Aluminum post and two signs                                                             | -                     | -                                        | 1 unit                              | Practice Water Safety' and 'Keep the Wildlife Wild' Signage                                                                                                   | Fair      | The two signs are mounted to the aluminum post, mounting hardware in good condition. The signs appear to have items previously taped or mounted to them. The aluminum post is leaning.                                                                                                                                      | Repair            | To ensure the signs are legible, the sign should be cleaned. The post is to be straightened.                                                                                                                                                                                                                                                                                                             |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 8' | Steel frame & wood planks                                                               | -                     | -                                        | 8' length; 2 units                  | -                                                                                                                                                             | Poor      | The steel frame of the picnic tables is beginning to rust and the paint is wearing off. The structure of the bench appears to be in good condition.                                                                                                                                                                         | Monitor           | The structure of the bench appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. The paint on the wood slats is in good condition and does not require any touchups at the time of inspection.                                                                                                                                                     |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 8 units                  | -                                                                                                                                                             | Good      | The structure of the tables appear to be in good condition. One table wood planks on top are warping, creating an uneven surface on the table top.                                                                                                                                                                          | Monitor           | The structure of the bench's are in good condition. The wood table planks on one table are warped creating an uneven surface for the table top. The wood planks can be replaced or monitored for future warping and monitor to ensure it does not create an unsafe table.                                                                                                                                |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 8' | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Poor      | The steel frame of the picnic table is beginning to rust and the paint is wearing off. The structure of the bench appears to be in good condition.                                                                                                                                                                          | Monitor           | The structure of the bench appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. The paint on the wood slats is in good condition and does not require any touchups at the time of inspection.                                                                                                                                                     |
| Furnishings   | Waste Receptacle               | -                           | Concrete charcoal disposal urn                                                          | -                     | -                                        | 1 unit                              | Concrete structure with interior rebar and the word 'Charcoal' previously painted horizontally along the middle of the structure                              | Very Poor | Concrete structure is cracking and deteriorating. Bottom of structure is cracked and open with interior rebar exposed and broken.                                                                                                                                                                                           | Remove            | Concrete structure is not utilized and deteriorating structurally. The exposed rebar poses a safety concern for park users. The structure can be replaced if the City wants a charcoal dispose unit within the park near the picnic shelter. If the structure is replaced, it is to be placed outside of the 3.0m safety zone around the basketball court, but in close proximity to the picnic shelter. |
| Furnishings   | Picnic Table                   | Square Quad                 | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit                              | Square table with centre post and 4 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                               | Good      | The bench is located with a square concrete pad under the seating section. The centre post is direct buried into the centre of the concrete pad. The structure and wooden planks are in good condition.                                                                                                                     | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                                        |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 8' | Steel frame & wood planks                                                               | -                     | -                                        | 8' length; 1 unit                   | -                                                                                                                                                             | Poor      | The steel frame of the picnic table has rust and the paint is wearing off. The structure of the bench appears to be in good condition.                                                                                                                                                                                      | Monitor           | The structure of the bench appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. The paint on the wood slats is in good condition and does not require any touchups at the time of inspection. The paint on the table frame can be painted to assist with the further rusting of the table.                                                        |
| Furnishings   | Picnic Table                   | Wooden 6'                   | Wood picnic table                                                                       | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Good      |                                                                                                                                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                                        |
| Furnishings   | Picnic Table                   | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Poor      | The steel frame of the picnic table has rust and the paint is wearing off. The structure of the table appears to be in good condition. A few spots have paint peeling for the table and seat wood planks.                                                                                                                   | Repair & Monitor  | The structure of the table appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. The paint on the wood slats is has a few peeling spots and requires minor touchups. The paint on the table frame can be painted to assist with the further rusting of the table.                                                                                  |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Good      | Bench has some paint peeling and graffiti on the table top and seat wood planks.                                                                                                                                                                                                                                            | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish.                                                                                                                                                                                                                                                                                                    |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Good      | Bench has some paint peeling and graffiti on the table top and seat wood planks.                                                                                                                                                                                                                                            | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish.                                                                                                                                                                                                                                                                                                    |
| Furnishings   | Picnic Table                   | Wooden 6'                   | Wood picnic table                                                                       | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Fair      | Wood picnic table has rusty washers and graffiti on wood planks.                                                                                                                                                                                                                                                            | Repair            | Rusty washers are to be replaced to reduce chance of structural damage to the table. Graffiti is to be removed from the table.                                                                                                                                                                                                                                                                           |
| Furnishings   | Waste Receptacle               | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid                              | Molok                 | Classic 1.3m3                            | 0.9m dia; 1.1m height (above grade) | Standard lid, 1.3m3 approximate capacity (based on approximate size and current Molok model standards)                                                        | Very Poor | The wood slat framing is missing approximately 5-6 slats. The screws from the slats are sticking out from the Molok structure causing a safety issue. The structure and lid of the Molok appear to be in good condition at the time of inspection.                                                                          | Repair            | The screws sticking out where the wood slat framing is supposed to be is causing possible significant safety issues if anyone is playing near the structure. The wood slats are to be replaced. At a minimum, until the slats can be replaced, the screws should be removed.                                                                                                                             |
| Furnishings   | Picnic Table                   | Square Quad - Accessible    | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit                              | Square table with centre post and 3 wooden bench seats supported by steel posts off the centre post. Direct buried centre post. The table has an option for a | Good      | The table is located with a square concrete pad under the seating section. The structure and wooden planks are in good condition, with minor rusting on the structure. The wood planks have paint peeling. Providing 2 wooden                                                                                               | Repair            | The addition of a paved access pathway to the table will increase the accessibility of the table. The current grass condition provides an uneven surface that could pose a mobility issue. To prevent further paint peeling, the wood planks on the table and                                                                                                                                            |
| Furnishings   | Picnic Table                   | Square Quad                 | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit                              | Square table with centre post and 4 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                               | Good      | The table is located with a square concrete pad under the seating section. The concrete pad is not flush with surrounding grade. The centre post is direct buried into the centre of the concrete pad. The structure and wooden planks are in good condition with minor graffiti and minor paint wear/rusting on the frame. | Repair            | Ensuring the concrete pad is flush will provide a smooth transition to the bench and reduce the opportunity for trips. For a consistent look across all picnic tables, the tables could all include the same painted finish with the removal of graffiti.                                                                                                                                                |
| Furnishings   | Statue, Monument & Art Feature | Monument                    | Stone                                                                                   | -                     | -                                        | 1 unit                              | Day of Mourning Monument, est. April 1993. Stone monument on top of 2 stone slabs located within a planting bed.                                              | Good      | The stone slabs have minimum wearing and moss growing around the base of the monument and each stone slab.                                                                                                                                                                                                                  | Minimal Repair    | Cleaning and removing the moss starting to grow on the base of the monument and each stone slab will ensure a longer lifespan of the monument.                                                                                                                                                                                                                                                           |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench.                                                                                                                        | Good      | Moss has started growing on the exterior wood slat edges. The bench frame has minor paint chipping. No signs of rusting.                                                                                                                                                                                                    | Minimal Repair    | Cleaning and removing the moss from the bench will ensure a longer lifespan. Monitoring the chipping paint will also assist with limiting the possibility of rust in the future. If the paint chipping continues, repainting or touching up the paint is recommended.                                                                                                                                    |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench.                                                                                                                        | Good      | The bench frame has minor paint chipping. No signs of rusting.                                                                                                                                                                                                                                                              | Monitor           | Monitoring the chipping paint will assist with limiting the possibility of rust in the future. If the paint chipping continues, repainting or touching up the paint is recommended.                                                                                                                                                                                                                      |
| Furnishings   | Picnic Table                   | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                             | Good/Fair | The frame is in good condition and planks are structurally sound but has minor paint peeling.                                                                                                                                                                                                                               | Minimal Repair    | For a consistent look across all picnic tables, the tables should all include the same painted finish.                                                                                                                                                                                                                                                                                                   |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad                   | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Attila Peter Keszeli.                                                                                                  | Good      | The concrete bench pad is not flush with surrounding grade/grass along the front portion (water's edge) and each side. The bench has some paint chipping.                                                                                                                                                                   | Monitor           | The grade surrounding the concrete bench pad should be flush providing a smooth transition. The bench should be monitored for further chipping and rust. If the paint chipping continues, repainting or touching up the paint is recommended.                                                                                                                                                            |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad                   | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Bench does not have a memorial or dedicated plaque.                                                                                                           | Good      | The bench frame has minor paint chipping on the arms and feet with no signs of rusting. The wood slats have minor scratches and some fungus/algae.                                                                                                                                                                          | Optional Repair   | Cleaning and removing the fungus/algae from the bench will ensure a longer lifespan. Monitoring the chipping paint will also assist with limiting the possibility of rust in the future. If the paint chipping continues, repainting or touching up the paint is recommended.                                                                                                                            |
| Furnishings   | Bench                          | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad                   | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: David Leonard Philips                                                                                                  | Good      | The concrete bench pad has an accessible route connecting the bench to the pathway. Negligible paint chipping at the foot of the bench.                                                                                                                                                                                     | N/A               | -                                                                                                                                                                                                                                                                                                                                                                                                        |

Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code | Component            | Sub-Component               | Material                                                   | Manufacturer / Artist                | Serial Number   | QTY/Units of Measure                | Additional Info                                                                                        | Condition   | Commentary                                                                                                                                                                                                                                                                                   | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                                                                                          |
|---------------|----------------------|-----------------------------|------------------------------------------------------------|--------------------------------------|-----------------|-------------------------------------|--------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid | Molok                                | Classic 1.3m3   | 0.9m dia; 1.1m height (above grade) | Standard lid, 1.3m3 approximate capacity (based on approximate size and current Molok model standards) | Good        | The plastic lid has animal chew marks. The metal aftermarket City of Kitchener waste sign has multiple scratches but does not affect legibility of sign.                                                                                                                                     | Optional Repair   | Replacement of chewed lid and scratched aftermarket City of Kitchener sign if desired.                                                                                                                                                                                                                                                  |
| Furnishings   | Bollard              | Fluted                      | Black Cast aluminum                                        | Toronto Fabricating                  | TFMC Style 318B | 2 units                             | Surface mounted to concrete footings.                                                                  | Good        | There is minimal rust on bollard near base; hardware is rusted.                                                                                                                                                                                                                              | Optional Repair   | Hardware should be replaced with stainless steel. Monitor rust spots and apply paint where needed to prevent additional deterioration.                                                                                                                                                                                                  |
| Furnishings   | Pedestrian Gate      | -                           | Black Cast aluminum                                        | -                                    | -               | 2 units                             | Surface mounted to concrete footings.                                                                  | Fair        | The top of the concrete footing of the eastern p-gate is not flush with the surrounding pavement. Some rust is present on the arms and bases of gates. The arm attachment to the post and base attachment is loose for both p-gates.                                                         | Repair            | Rust spots should be touched up and monitored for further deterioration. Arms and base should be inspected for loose screws, and repaired as required. Regular maintenance of pedestrian gates should follow.                                                                                                                           |
| Furnishings   | Signage              |                             | Aluminum post and sign                                     | -                                    | -               | 1 unit                              | Fire Route' Sign                                                                                       | Good        | The sign is mounted to an aluminum post. Mounting hardware in good condition. Aluminum post is leaning.                                                                                                                                                                                      | Repair            | The post is to be straightened.                                                                                                                                                                                                                                                                                                         |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | N/A               |                                                                                                                                                                                                                                                                                                                                         |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | Repair            | For a consistent look across all picnic tables, the tables should all include the same painted finish.                                                                                                                                                                                                                                  |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound. Minor paint chipping and graffiti carved into surface of plank.                                                                                                                                                            | Optional Repair   | Consider touching up planks with paint chipping. Resurface plank with graffiti should painting not suffice.                                                                                                                                                                                                                             |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | N/A               |                                                                                                                                                                                                                                                                                                                                         |
| Furnishings   | Picnic Table         | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                  | -                                    | -               | 8' length; 1 unit                   | -                                                                                                      | Poor        | The steel frame of the picnic table is severely rusted and the paint is wearing off. The structure of the table appears to be in good condition.                                                                                                                                             | Repair & Monitor  | The structure of the bench appears to be in good condition but should be monitored to ensure the rust does not interfere structurally. Consider repainting the frame to assist with further rusting of the table. The wood slats are painted black, for a consistent look across all picnic tables they should all be painted the same. |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 2 units                  | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Picnic Table         | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                  | -                                    | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Bench                | Bleacher Guys               | Hot-dipped galvanized steel & wood planks                  | Bleacher Guys                        | -               | 1 unit                              | Surface mounted, no arms                                                                               | Good        | The frame is in good condition and planks are structurally sound. Minor cracking of planks present. Bolts rusting at back of bench connecting planks to frame.                                                                                                                               | Optional Repair   | Monitor the condition of the planks and replace if required. Rusted bolts and washers to be replaced with stainless steel fasteners.                                                                                                                                                                                                    |
| Furnishings   | Bench                | Robin Galva                 | Hot-dipped galvanized steel & white cedar planks           | Michael's Stabling Developments Inc. | Robin Galva     | 1 unit                              | Surface mounted                                                                                        | Good        | The frame is in good condition and planks are structurally sound. No rust on fasteners. The concrete that the bench is fastened to is not flush with adjacent asphalt pathway resulting in a tripping hazard.                                                                                | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid | Molok                                | Classic 1.3m3   | 0.9m dia; 1.1m height (above grade) | Standard lid, 1.3m3 approximate capacity (based on approximate size and current Molok model standards) | Good        | Aftermarket City of Kitchener sign has minor scuffing. The lid has animal chew marks but is still functional.                                                                                                                                                                                | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | Repair            | Gaps between armour stone should be filled.                                                                                                                                                                                                                                                                                             |
| Furnishings   | Picnic Table         | Wooden 6'                   | Wood picnic table                                          | -                                    | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | Wood picnic table has rusty washers. Planks are in good condition.                                                                                                                                                                                                                           | Repair            | Rusty washers are to be replaced to reduce chance of structural damage to the table.                                                                                                                                                                                                                                                    |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                     | -                                    | -               | 1 unit                              | Accessible Parking Sign                                                                                | Good        | Sign is installed too high.                                                                                                                                                                                                                                                                  | Repair            | Sign is to be adjusted to be at appropriate height for legibility. Approximately 2.35m height from finished grade to top of sign.                                                                                                                                                                                                       |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid | Molok                                | Classic 3m3     | 1.3m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)             | Good        | Remnants of sticker on aftermarket City of Kitchener waste sign.                                                                                                                                                                                                                             | Optional Repair   | Remove substance from metal sign.                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Picnic Table         | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                  | -                                    | -               | 6' length; 1 unit                   | -                                                                                                      | Fair-Good   | The frame is in ok condition and planks are structurally sound. There is noticeable paint missing/chipping, surface rust and paint wear on the planks.                                                                                                                                       | Repair            | It is suggested to repaint the frame and monitor for further rust development. It is also suggested to repaint the boards to ensure full paint coverage.                                                                                                                                                                                |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | The frame is in good condition and planks are structurally sound.                                                                                                                                                                                                                            | Repair            | For a consistent look across all picnic tables, the tables should all include the same painted finish.                                                                                                                                                                                                                                  |
| Furnishings   | Bicycle Rack         | 4-Ring                      | Black powder-coated steel                                  | Bike-Up Bicycle Parking Systems Inc. | -               | 1 unit                              | Surface mounted to concrete pad                                                                        | Fair        | Paint is chipping and rust has started on the feet of the bike rack. One foot is rusty and dented.                                                                                                                                                                                           | Repair            | Repaint and monitor rust deterioration. Consider replacement in 1-5 years.                                                                                                                                                                                                                                                              |
| Furnishings   | Pedestrian Gate      | -                           | Black powder-coated steel                                  | -                                    | -               | 1 unit                              | Surface mounted to concrete footing                                                                    | Fair        | Black in colour with patches of rust. It is bolted to a concrete footing within the surrounding paving. The arm attachment to the post is loose.                                                                                                                                             | Repair            | Rust spots should be touched up and monitored for further deterioration. Arms and base should be inspected for loose screws, and repaired as required. Regular maintenance of pedestrian gates should follow.                                                                                                                           |
| Furnishings   | Pedestrian Gate      | -                           | Black powder-coated steel                                  | -                                    | -               | 1 unit                              | Surface mounted to concrete footing                                                                    | Good        | Black in colour with patches of rust. It is bolted to a concrete footing within the surrounding paving.                                                                                                                                                                                      |                   | Rust spots should be touched up and monitored for further deterioration. Arms and base should be inspected for loose screws, and repaired as required. Regular maintenance of pedestrian gates should follow.                                                                                                                           |
| Furnishings   | Picnic Table         | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                  | -                                    | -               | 6' length; 1 unit                   | -                                                                                                      | Good-Fair   | The majority of the steel frame has surface rust. The wood planks are structurally sound but the paint is peeling. The table top support bars have been replaced recently using galvanized steel.                                                                                            | Optional Repair   | Repaint the entire frame to ensure a consistent look and repair the rust. Continue to monitor for further deterioration. Wood planks should have paint touched up.                                                                                                                                                                      |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                     | -                                    | -               | 1 unit                              | Fire Route' Sign                                                                                       | Good        | The sign is mounted to an aluminum post. Mounting hardware in good condition. Aluminum post is slightly leaning.                                                                                                                                                                             | Repair            | Post is to be straightened.                                                                                                                                                                                                                                                                                                             |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                     | -                                    | -               | 1 unit                              | Fire Route' Sign                                                                                       | Good-Fair   | The sign is mounted to an aluminum post. Mounting hardware in good condition. Aluminum post is significantly leaning.                                                                                                                                                                        | Repair            | Post is to be straightened.                                                                                                                                                                                                                                                                                                             |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                     | -                                    | -               | 2 units                             | Scoop & Scoop' Sign, 'Litter' Sign                                                                     | Good        | The signs are mounted to one aluminum post. Mounting hardware in good condition.                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Signage              | -                           | Galvanized Steel                                           | -                                    | -               | 1 unit                              | Memorial Sign affixed to tree                                                                          | Good        | Sign is in good condition.                                                                                                                                                                                                                                                                   | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid | Molok                                | Classic 3m3     | 1.3m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)             | Very Good   | -                                                                                                                                                                                                                                                                                            | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Commemorative Plaque | -                           | Granite on steel frame                                     | -                                    | -               | 1 unit                              | Direct bury post into concrete footing                                                                 | Good        | Engraved granite inlaid on a steel post and frame. The steel frame is painted black but has some chipping. Engraved stone contains braille.                                                                                                                                                  | Optional Repair   | Touch up chipped paint on frame.                                                                                                                                                                                                                                                                                                        |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | Wood is in good condition with no rust.                                                                                                                                                                                                                                                      | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Pedestrian Gate      | -                           | Steel with powder coat finish                              | Toronto Fabricating                  | -               | 1 unit                              | -                                                                                                      | Good - Fair | Black pedestrian gate consisting of a wide base that tapers into a slender body with decorative fluting. The top of the bollard is adorned with a large spherical casting. The bollard is rusting with additional paint peeling. The gate loop is loose where it is attached to the bollard. | Optional Repair   | Repaint the bollard to patch the peeling paint and reduce the chance of further rusting. The gate loop can be repaired and welded to ensure it is structurally sturdy.                                                                                                                                                                  |
| Furnishings   | Pedestrian Gate      | -                           | Steel with powder coat finish                              | Toronto Fabricating                  | -               | 1 unit                              | -                                                                                                      | Good        | Black pedestrian gate consisting of a wide base that tapers into a slender body with decorative fluting. The top of the bollard is adorned with a large spherical casting. The bollard is rusting with additional paint peeling. The gate loop is loose where it is attached to the bollard. | Optional Repair   | Repaint the bollard to patch the peeling paint and reduce the chance of further rusting. The gate loop can be repaired and welded to ensure it is structurally sturdy.                                                                                                                                                                  |
| Furnishings   | Picnic Table         | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks            | Bleacher Guys                        | -               | 6' length; 1 unit                   | -                                                                                                      | Good        | Wood is in good condition with no rust.                                                                                                                                                                                                                                                      | N/A               | -                                                                                                                                                                                                                                                                                                                                       |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                     | -                                    | -               | 1 unit                              | Park Closed Sign                                                                                       | Good        | -                                                                                                                                                                                                                                                                                            | N/A               | -                                                                                                                                                                                                                                                                                                                                       |

Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code | Component            | Sub-Component               | Material                                                                           | Manufacturer / Artist | Serial Number                            | QTY/Units of Measure                | Additional Info                                                                                    | Condition   | Commentary                                                                                                                                                                                                    | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                        |
|---------------|----------------------|-----------------------------|------------------------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | Water Safety and Slippery Condition Sign                                                           | Good        | Overall post is leaning.                                                                                                                                                                                      | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                 |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid                         | Molok                 | Classic 3m3                              | 1.3m dia, 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)         | Good        | Stickers located on exterior of waste receptacle.                                                                                                                                                             | Optional Repair   | Removing stickers from waste receptacle and maintaining future graffiti.                                                                                                                                                                                              |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Irene & Henry Heinrichs                                     | Good - Fair | Negligible paint chipping at the foot of the bench. The concrete pad has chips along the front edge and moss is accumulating on the wood slats. The concrete pad and bench location is not accessible.        | Optional Repair   | Monitoring the chipping concrete to ensure that it does not become a safety concern. Moss should be removed from the wood slats to ensure it does not deteriorate the wood. Investigation should occur to ensure access to the bench is accessible.                   |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Beautification Committee.                                   | Good - Fair | The bench is structurally sound but is missing part of the metal frame. The overall paint on the bench structure is chipped and flaking.                                                                      | Optional Repair   | Monitoring the chipping paint will assist with limiting the possibility of rust in the future. If the paint chipping continues, repainting or touching up the paint is recommended. The bench frame should be repaired to ensure it does not create a safety concern. |
| Furnishings   | Commemorative Plaque | -                           | Stone                                                                              | -                     | -                                        | 1 unit                              | Sues Japanese Garden stone                                                                         | Fair        | The stone plaque is not clearly visible and has moss growing on the stone.                                                                                                                                    | Optional Repair   | Ensure that the stone plaque is clearly visible and clear.                                                                                                                                                                                                            |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | No Parking and Park Closed Sign                                                                    | Good        | Overall post is leaning.                                                                                                                                                                                      | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                 |
| Furnishings   | Pedestrian Gate      | -                           | Steel with powder coat finish                                                      | Toronto Fabricating   | -                                        | 1 unit                              | Has ability to rotate and open with lock. Paint is peeling and some rust.                          | Good        | Wide base bollard that tapers into a slender body with decorative fluting. The top of the bollard is adorned with a large spherical casting. The gate portion is not securely attached.                       | Optional Repair   | The gate loop can be repaired and welded to ensure it is structurally sturdy. Rust should be removed and repainted to reduce further rusting.                                                                                                                         |
| Furnishings   | Pedestrian Gate      | -                           | Steel with powder coat finish                                                      | Toronto Fabricating   | -                                        | 1 unit                              | Has ability to rotate and open with lock. Paint is peeling and some rust.                          | Fair - Poor | Wide base bollard that tapers into a slender body with decorative fluting. The top of the bollard is adorned with a large spherical casting. The gate portion is not securely attached.                       | Optional Repair   | The gate loop can be repaired and welded to ensure it is structurally sturdy. Rust should be removed and repainted to reduce further rusting.                                                                                                                         |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | No Parking Sign                                                                                    | Good - Fair | Sign is in good condition with some rust, but the post is leaning                                                                                                                                             | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                 |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench.                                                             | Good - Fair | Located on a concrete pad, the bench location is not accessible. The bench has graffiti and spray paint.                                                                                                      | Optional Repair   | The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible. Graffiti and paint should be removed from the bench.                                                                                                    |
| Furnishings   | Picnic Table         | Wooden                      | Wood picnic table                                                                  | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                  | Poor        | Wood picnic table has rusty washers. Planks are in good condition.                                                                                                                                            | Repair            | Rusty washers are to be replaced to reduce chance of structural damage to the table.                                                                                                                                                                                  |
| Furnishings   | Waste Receptacle     | Decorative                  | Stainless steel with black powder coat                                             | Toronto Fabricating   | TFMC Style 922 - Uptown Series           | 1 unit                              | Located on a concrete pad.                                                                         | Good        | -                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Surface mounted                                                                                    | Good        | The frame is in good condition and planks are structural sound.                                                                                                                                               | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Commemorative Plaque | -                           | Stone and plaque                                                                   | -                     | -                                        | 1 unit                              | Berlin Kitchener Musical Society plaque on Roost Island                                            | Good        | The plaque was replaced in 2024 with a non-bronze plaque after it was stolen.                                                                                                                                 | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid                         | Molok                 | Classic 1.3m3                            | 0.9m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)         | Good - Fair | Sign on Molok structure has been damaged.                                                                                                                                                                     | Optional Repair   | Replace or repair damaged sign.                                                                                                                                                                                                                                       |
| Furnishings   | Bollard              | Fluted                      | Black Cast aluminum                                                                | Toronto Fabricating   | TFMC Style 3188                          | 2 units                             | Surface mounted to concrete footings.                                                              | Good        | There is minimal rust on bollard near base; hardware is rusted.                                                                                                                                               | Optional Repair   | Hardware should be replaced with stainless steel. Monitor rust spots and apply paint where needed to prevent additional deterioration.                                                                                                                                |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | Pedestrian Crossing Sign                                                                           | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                     | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Marianne Rapp                                               | Good        | Located on a concrete pad, the bench location is not accessible.                                                                                                                                              | Optional Repair   | The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                                                                                                                         |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Dorothy & Clarence Wittie                                   | Good        | The bench is located on a concrete pad, and the bench has an accessible path to the bench.                                                                                                                    | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | No Trespassing Sign                                                                                | Fair        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                     | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Bollard              | Tiber                       | Wood                                                                               | -                     | -                                        | 1 unit                              | Wood bollard with chain with missing connection piece.                                             | Fair        | The chain connection between bollards appears to be missing part of the chain or the connection piece and is not connected to another bollard.                                                                | Optional Repair   | If the bollard and chain are going to be used to keep people away from a certain area then the chain and bollard(s) should be repaired so that it is functional and does not create a safety hazard.                                                                  |
| Furnishings   | Bicycle Rack         | Inverted U                  | Black powder-coated steel                                                          | Maglin                | 500 Series                               | 3 units                             | Surface mounted to concrete pad                                                                    | Good        | The bicycle rack can support two bicycles per structure.                                                                                                                                                      | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Bench                | Full Metal                  | Black Powder Coated Steel Vertical slats                                           | Maglin                | 510 Backed Bench                         | 1 unit                              | -                                                                                                  | Good        | Located on a concrete pad, adjacent to a pedestrian path, the bench location provides accessible access with additional concrete pad adjacent to the bench.                                                   | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Picnic Table         | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                          | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                  | Poor        | The frame is rusting and the wood planks have graffiti.                                                                                                                                                       | Repair / Monitor  | The graffiti can be cleaned from the table or the table can be painted to cover the graffiti and reduce future graffiti. The rust should be removed and monitored for further deterioration of the frame.                                                             |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Susan & John Dedyne                                         | G           | Located on a concrete pad, the bench has recently had one wood slat replaced. The location of the bench is not accessible.                                                                                    | Optional Repair   | The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                                                                                                                         |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | -                                                                                                  | G           | Located on a concrete pad the bench has graffiti and spray paint.                                                                                                                                             | Optional Repair   | Graffiti and paint should be removed from the bench.                                                                                                                                                                                                                  |
| Furnishings   | Bench                | Memorial                    | Black Powder Coated legs and arm rests and wood slats on concrete pad              | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | -                                                                                                  | -           | Located on a concrete pad, the bench location is not accessible.                                                                                                                                              | Optional Repair   | The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                                                                                                                         |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | Snow Storage Sign                                                                                  | Fair        | The sign is mounted to an aluminum post in good condition but the post is leaning.                                                                                                                            | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                 |
| Furnishings   | Information Sign     | -                           | Sign on 4x4 wood post                                                              | -                     | -                                        | 2 units                             | Iron Horse Trail signs located on a 4x4 wood post                                                  | Good        | Located at the edge of the park limits and along the Iron Horse Trail at key entry points.                                                                                                                    | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Signage              | -                           | Aluminum post and sign                                                             | -                     | -                                        | 1 unit                              | Rail Crossing and Stop Sign                                                                        | Good        | The signs are mounted to an aluminum post, no lean or rust.                                                                                                                                                   | N/A               | -                                                                                                                                                                                                                                                                     |
| Furnishings   | Waste Receptacle     | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid                         | Molok                 | Classic 3m3                              | 1.3m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)         | Good - Fair | The lid on the Molok has been damaged, the metal band has been warped and graffiti is present.                                                                                                                | Optional Repair   | The Molok lid can be replaced to prevent further damage and reduce the chance of wildlife entering the structure. The metal band can be replaced or repaired to prevent safety concerns and the graffiti can be cleaned.                                              |
| Furnishings   | Bench                | MMCITE                      | Wooden boards connected with stainless steel rods resting on galvanized steel legs | MMCITE                | Woody Bench LWD 150-01                   | 1 unit                              | The bench has an option to hold two bicycles on the one end by placing a bike tire into the slats. | Fair        | The bench is in very good condition structurally, but has significant weathering on its wood surfaces, requiring resurfacing. The bench does not have any rust visible, and has chipping along the back rest. | Optional Repair   | If the wood slats start to deteriorate then the slats should be replaced. Alternatively, an eco-friendly oil for outdoor wood furniture can be applied to assist with the wood protection.                                                                            |
| Furnishings   | Bollard              | Post Guard                  | Hot-dip galvanized bollard with a blue bollard cover c/w white reflective tape     | Post Guard            | -                                        | 1 unit                              | Surface mounting hardware and base on the bollard is rusting.                                      | Good - Fair | The structure of the bollard appears to be in good condition, but the base and hardware of the bollard are rusted.                                                                                            | Optional Repair   | The hardware should be replaced with stainless steel. Monitor rust spots and replace as needed.                                                                                                                                                                       |
| Furnishings   | Bollard              | Post Guard                  | Hot-dip galvanized bollard with a blue bollard cover c/w white reflective tape     | Post Guard            | -                                        | 1 unit                              | Surface mounting hardware and base on the bollard is rusting.                                      | Good - Fair | The structure of the bollard appears to be in good condition, but the base and hardware of the bollard are rusted.                                                                                            | Optional Repair   | The hardware should be replaced with stainless steel. Monitor rust spots and replace as needed.                                                                                                                                                                       |
| Furnishings   | Bollard              | Post Guard                  | Hot-dip galvanized bollard with a blue bollard cover c/w white reflective tape     | Post Guard            | -                                        | 1 unit                              | Surface mounting hardware and base on the bollard is rusting.                                      | Good - Fair | The structure of the bollard appears to be in good condition, but the base and hardware of the bollard are rusted.                                                                                            | Optional Repair   | The hardware should be replaced with stainless steel. Monitor rust spots and replace as needed.                                                                                                                                                                       |
| Furnishings   | Bollard              | Post Guard                  | Hot-dip galvanized bollard with a blue bollard cover c/w white reflective tape     | Post Guard            | -                                        | 1 unit                              | Surface mounting hardware and base on the bollard is rusting.                                      | Good - Fair | The structure of the bollard appears to be in good condition, but the base and hardware of the bollard are rusted.                                                                                            | Optional Repair   | The hardware should be replaced with stainless steel. Monitor rust spots and replace as needed.                                                                                                                                                                       |

Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code | Component                      | Sub-Component | Material                                                              | Manufacturer / Artist | Serial Number                            | QTY/Units of Measure                | Additional Info                                                                                                                                                  | Condition   | Commentary                                                                                                                                                                                                                         | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                                           |
|---------------|--------------------------------|---------------|-----------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Dorothy Russell.                                                                                                          | Good        | The bench is structurally sound and has recently been re-bolted to the concrete pad. The bench has patches of moss on the wood slats and needs painting along the frame and footings. The location of the bench is not accessible. | Repair            | The moss should be removed from the bench and the paint should be repaired/touched up to reduce the possibility for further paint chipping. The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Jackie & Dagmar Grieb                                                                                                     | Good        | The bench has moss on the wood slats and graffiti. The frame of the bench needs paint touchups. The concrete pad has patches of grass and vegetation overgrowing the edges.                                                        | Repair            | The moss should be removed from the bench and the paint should be repaired/touched up to reduce the possibility for further paint chipping. The concrete pad for the bench should be clear of obstructions.                                                                              |
| Furnishings   | Information Sign               | -             | Sign on steel post                                                    | -                     | -                                        | 1 unit                              | Goose management program sign on a steel post                                                                                                                    | Fair - Good | Goose management program sign; has rusted post; slightly leaning                                                                                                                                                                   |                   | The sign is to be straightened and the rust is to be removed and monitored for future rust.                                                                                                                                                                                              |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Anna Maria Woodhouse                                                                                                      | Fair - Poor | The bench has moss on the wood and has missing 2 bolts in the footings of the bench structure connecting to the concrete pad. The bench location is not accessible.                                                                | Repair            | The moss should be removed from the bench and the bolts should be replaced to ensure that the bench does not tip or move when someone is sitting on the bench. The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.             |
| Furnishings   | Statue, Monument & Art Feature | Cannon        | Cast-iron cannon located on a stone and concrete base                 | -                     | -                                        | 2 units                             | One is located on Roos Island, the second is located at the base of the Queen Victoria statue                                                                    | Good - Fair | The stone and concrete bases of the cannon are cracking. The cannons are in good condition with a few paint spots.                                                                                                                 | Repair            | The stone and concrete base requires structural repairs or complete replacement. The cannons should be cleaned of all paint and graffiti.                                                                                                                                                |
| Furnishings   | Picnic Table                   | Bleacher Guys | Hot-dipped galvanized steel frame & wood planks                       | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                                | Good - Fair | The wood planks have been carved into and appear to have been burnt previously.                                                                                                                                                    | Repair            | The wood planks that have been damaged and are considered a structural and/or safety concern should be replaced.                                                                                                                                                                         |
| Furnishings   | Waste Receptacle               | Moloks        | HD polyethylene, wood slat framing, dark grey coloured lid            | Molok                 | Classic 1.3m3                            | 0.9m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)                                                                       | Good        | -                                                                                                                                                                                                                                  | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Information Sign               | -             | Sign on steel post                                                    | -                     | -                                        | 1 unit                              | Don't Feed Duck sign located on a steel post.                                                                                                                    | Fair - Good | The sign is slightly warped and is difficult to read due to dirt on the sign.                                                                                                                                                      | Optional Repair   | The sign is to be straightened and cleaned so that the sign is legible.                                                                                                                                                                                                                  |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: RW Iode                                                                                                                   | Good - Fair | The bench is located on a concrete pad and has some weak wood boards. The bench location is not accessible.                                                                                                                        | Repair            | The wood boards on the bench should be reviewed to ensure there is not structural weaknesses. The bench location should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                                              |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | Ice & Water Safety Sign                                                                                                                                          | Good        | The sign is mounted to an aluminum post in good condition but the post is leaning.                                                                                                                                                 | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                                    |
| Furnishings   | Commemorative Plaque           | -             | Stone and bronze plaque                                               | -                     | -                                        | 1 unit                              | Crimson King plaque located on a large stone under a crimson maple. Dedicated to the marriage of H.R.H. The Prince of Wales and Lady Diana Spencer.              | Good        | The location of the stone and plaque is in close proximity to a pedestrian pathway and located under a crimson maple.                                                                                                              | Optional Repair   | Increase the font size on the plaque and putting it at a height that is easier to read for park users. Additionally, the area around the plaque and tree could incorporate crimson maple leaves printed into the pathway to enhance the message of the "Crimson King"                    |
| Furnishings   | Waste Receptacle               | Moloks        | HD polyethylene, wood slat framing, dark grey coloured lid            | Molok                 | Classic 1.3m3                            | 0.9m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)                                                                       | Good        | -                                                                                                                                                                                                                                  | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Statue, Monument & Art Feature | Monument      | Stone pedestal with bronze plaque                                     | -                     | -                                        | 1 unit                              | Located along the pathway between the boathouse and the intersection of Jubilee Drive and David Street                                                           | Good        | Stone pedestal installed in 1996 on a concrete pad.                                                                                                                                                                                | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Picnic Table                   | Bleacher Guys | Hot-dipped galvanized steel frame & wood planks                       | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                                | Fair        | The wood planks and frame have graffiti.                                                                                                                                                                                           | Optional Repair   | The wood planks and frame can be cleaned or painted to remove the graffiti.                                                                                                                                                                                                              |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Woodrow & Leona Koppeser                                                                                                  | Good        | The bench is location on a concrete pad and has no center brace supporting the wood slats. The bench frame needs painting and the location of the bench is not accessible.                                                         | Repair            | The bench frame paint should be repaired/touched up to reduce the possibility for further paint chipping. The location of the bench should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                           |
| Furnishings   | Commemorative Plaque           | -             | Stone and bronze plaque                                               | -                     | -                                        | 1 unit                              | Victoria Park & Schneider Creek Improvements Plaque documenting the completion of a major section of the Schneider Creek storm water management project in 1985. | Good        | Located near the intersection of Rolan Street and David Street. The plaque location is not clearly visible due to the height level and location adjacent to the pathway.                                                           | Optional Repair   | The opportunity to have the plaque located along the railing at the storm water outlet, can direct the users towards the water, visually recognizing the work that was completed to make the pond.                                                                                       |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | Water Safety Sign                                                                                                                                                | Good - Fair | The signs are mounted to an aluminum post in good condition but the post is leaning.                                                                                                                                               | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                                    |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Quickfall Family.                                                                                                         | Good        | The bench frame has some chipping paint and the location of the bench does not provide accessible access.                                                                                                                          | Repair            | The bench frame paint should be repaired/touched up to reduce the possibility for further paint chipping. The location of the bench should be reviewed and how access to the bench can be adjusted to ensure it is accessible.                                                           |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Joseph Schneider & Joseph M. Snyder                                                                                       | Good        | The bench frame has some chipping paint.                                                                                                                                                                                           | Repair            | The bench frame paint should be repaired/touched up to reduce the possibility for further paint chipping.                                                                                                                                                                                |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Roger John Koppeser                                                                                                       | Good        | The bench frame has some chipping paint on the arm rest and bench feet/base.                                                                                                                                                       | Repair            | The bench frame paint should be repaired/touched up to reduce the possibility for further paint chipping.                                                                                                                                                                                |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench: Connie & Harry Dychuck                                                                                                    | Good        | The bench frame has some chipping paint and the location of the bench does provide accessible access.                                                                                                                              | Repair            | The bench frame paint should be repaired/touched up to reduce the possibility for further paint chipping.                                                                                                                                                                                |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | No Parking Sign                                                                                                                                                  | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | Single File Road Sign                                                                                                                                            | Fair        | The sign is mounted to an aluminum post in good condition but the post is leaning.                                                                                                                                                 | Optional Repair   | Sign post can be straightened to ensure future damage does not occur.                                                                                                                                                                                                                    |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | Stop Sign                                                                                                                                                        | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | No Winter Maintenance Sign                                                                                                                                       | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 2 units                             | Aluminum post with two signs, one 'water safety' and one bird information sign                                                                                   | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | No Winter Maintenance Sign                                                                                                                                       | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum post and sign                                                | -                     | -                                        | 1 unit                              | Water Safety Sign                                                                                                                                                | Good        | The sign is mounted to an aluminum post, no lean or rust.                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum                                                              | -                     | -                                        | 1 unit                              | No Fishing Sign                                                                                                                                                  | Very Good   | Sign is in good condition                                                                                                                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Signage                        | -             | Aluminum                                                              | -                     | -                                        | 1 unit                              | Slippery surfaces and park closed sign                                                                                                                           | Good        | Sign is in good condition. Two signs are mounted onto the post which has been attached to the edge of the bridge railing.                                                                                                          | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | -                              | -             | Metal                                                                 | -                     | -                                        | 1 unit                              | Firewood storage bin                                                                                                                                             | Good        | metal firewood box                                                                                                                                                                                                                 | N/A               | -                                                                                                                                                                                                                                                                                        |
| Furnishings   | Commemorative Plaque           | -             | Stone and bronze plaque                                               | -                     | -                                        | 1 unit                              | Tubbenahnequay stone and plaque                                                                                                                                  | Good        | The location of the stone and plaque is in close proximity to a shrub. The stone is not clearly visible from the pathway.                                                                                                          | Optional Repair   | The location of the stone and plaque should be considered and relocated to an area of higher visibility. If the stone is to remain in the same location then the shrub should be trimmed to allow for more visibility.                                                                   |
| Furnishings   | Bollard                        | Timber        | Wood                                                                  | -                     | -                                        | 10 units                            | -                                                                                                                                                                | Poor        | Weathered and timber posts are rotting and splitting                                                                                                                                                                               | Replace           | Replace rotting and splitting posts to ensure structural integrity wooden barrier bollards.                                                                                                                                                                                              |
| Furnishings   | Signage                        | -             | Aluminum                                                              | -                     | -                                        | 1 unit                              | Park Closed Sign                                                                                                                                                 | Good        | Sign is in good condition, but the post is leaning.                                                                                                                                                                                | Repair            | Sign is to be straightened to ensure visibility.                                                                                                                                                                                                                                         |
| Furnishings   | Pedestrian Gate                | -             | Steel with powder coat finish                                         | Toronto Fabricating   | -                                        | 2                                   | Black Pedestrian P-Gates                                                                                                                                         | Good        | Small amounts of rust located at the base of the pedestrian gate.                                                                                                                                                                  | Monitor           | Small amounts of rust at base. Monitor rust progression, repair and replace bolts/parts as required.                                                                                                                                                                                     |
| Furnishings   | Signage                        | -             | Aluminum                                                              | -                     | -                                        | 1 unit                              | Accessible Parking Sign                                                                                                                                          | Good        | Post is leaning                                                                                                                                                                                                                    | Repair            | Sign is to be straightened to ensure visibility.                                                                                                                                                                                                                                         |
| Furnishings   | Bench                          | Memorial      | Black Powder Coated legs and arm rests and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | Memorial plaque on back rest of bench.                                                                                                                           | Fair        | The bench is located on a concrete pad but the access to the bench is not accessible. The wood slats on the bench are weathered and have paint peeling at the base of the metal structure.                                         | Repair            | The wood slats should be monitored to ensure they do not continue to deteriorate. The paint at the base of the bench structure should be repainted to ensure it does not allow for rust. The access to the bench should be reviewed to allow the bench to be accessed by all park users. |



Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code               | Component        | Sub-Component               | Material                                                                                | Manufacturer / Artist | Serial Number                            | QTY/Units of Measure                | Additional Info                                                                                                                                                                                                                    | Condition   | Commentary                                                                                                                                                                                                                                                                                                                    | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                          |
|-----------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | -                                                                                                                                                                                                                                  | Good        | Graffiti on the table top and bench seats.                                                                                                                                                                                                                                                                                    | Optional Repair   | The graffiti can be cleaned from the table or the table can be painted to cover the graffiti and reduce future graffiti.                                                                                                                                |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | Stainless steel frame painted black. The wood planks have been painted grey.                                                                                                                                                       | Fair        | The grey painted wood planks have minor paint peeling and the stainless steel frame has multiple rust spots.                                                                                                                                                                                                                  | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish. The table can be sanded and repainted to reduce future deterioration with paint peeling and have a consistent look across the park to all tables. |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | The wood planks have been painted grey.                                                                                                                                                                                            | Fair        | They grey painted wood planks have minor paint peeling.                                                                                                                                                                                                                                                                       | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish. The table can be sanded and repainted to reduce future deterioration with paint peeling and have a consistent look across the park to all tables. |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | Unpainted wood planks on top of table.                                                                                                                                                                                             | Good        | -                                                                                                                                                                                                                                                                                                                             | Optional Repair   | For a consistent look across all picnic tables, the tables could all include the same painted finish. The table can be sanded and repainted to reduce future deterioration with paint peeling and have a consistent look across the park to all tables. |
| Furnishings                 | Picnic Table     | Square Quad                 | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit                              | Square table with centre post and 4 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                    | Good        | The bench is located with a square concrete pad under the seating section. The centre post is direct buried into the centre of the concrete pad. The structure and wooden planks are in good condition. The wood planks have paint peeling and the one wood plank on the table top has warped along the edge creating a hole. | Repair            | The wood planks should be repainted to ensure the paint peeling does not impact the wood underneath.                                                                                                                                                    |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 1 unit                   | Unpainted wood planks on top of table.                                                                                                                                                                                             | Good        | The wood planks that are painted have a grey paint that is chipping.                                                                                                                                                                                                                                                          | Optional Repair   | Provide a consistent paint across the table including the table planks and seat planks.                                                                                                                                                                 |
| Furnishings                 | Picnic Table     | Square Quad - Accessible    | Steel frame & wood planks                                                               | -                     | -                                        | 1 unit                              | Square table with centre post and 3 wooden bench seats supported by steel posts off the centre post. Direct buried centre post.                                                                                                    | Good        | The bench has minor paint chipping and minor wood chipping.                                                                                                                                                                                                                                                                   | Monitor           | Monitor the condition of the planks and repair or replace if required.                                                                                                                                                                                  |
| Furnishings                 | Bench            | Memorial                    | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 1 unit                              | -                                                                                                                                                                                                                                  | Good        | The bench is located on a concrete pad but the location is not accessible. The bench wood slats are weathered and erosion is occurring at the base.                                                                                                                                                                           | Repair            | The location of the bench should be considered and how the bench is accessed. The bench wood slats should be replaced if they are deteriorating.                                                                                                        |
| Furnishings                 | Signage          | -                           | Aluminum post and sign                                                                  | -                     | -                                        | 1 unit                              | Empty sign on aluminum post                                                                                                                                                                                                        | Fair        | The writing and graphics on the sign are no longer visible.                                                                                                                                                                                                                                                                   | Repair            | The sign should be replaced or removed.                                                                                                                                                                                                                 |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 6' length; 2 units                  | -                                                                                                                                                                                                                                  | Good        | The wood planks that are painted have a grey paint that is chipping.                                                                                                                                                                                                                                                          | Monitor           | Monitor the picnic table to ensure the paint does not chip further.                                                                                                                                                                                     |
| Furnishings                 | Picnic Table     | Steel Frame, Wood Planks 6' | Steel frame & wood planks                                                               | -                     | -                                        | 8' length; 1 unit                   | -                                                                                                                                                                                                                                  | Poor        | The steel frame of the picnic table is rusting and the paint is wearing off. The structure of the table appears to be in good condition.                                                                                                                                                                                      | Repair            | The picnic table should be repainted and the rust should be monitored.                                                                                                                                                                                  |
| Furnishings                 | Waste Receptacle | Moloks                      | HD polyethylene, wood slat framing, dark grey coloured lid                              | Molok                 | Classic 3m3                              | 1.3m dia; 1.1m height (above grade) | Standard lid, 3m3 approximate capacity (based on approximate size and current Molok model)                                                                                                                                         | Fair        | The Molok has missing wooden slats and the remaining slats are faded. The waste receptacle also has multiple spots of vandalism including stickers and graffiti.                                                                                                                                                              | Repair            | The missing wooden slats should be replaced and the graffiti should be removed.                                                                                                                                                                         |
| Furnishings                 | Picnic Table     | Bleacher Guys               | Hot-dipped galvanized steel frame & wood planks                                         | Bleacher Guys         | -                                        | 6' length; 1 unit                   | -                                                                                                                                                                                                                                  | Good        | The table has been vandalized and also has a chain linking the table frame to an adjacent tree.                                                                                                                                                                                                                               | Repair            | Refinish/paint wood planks on table top                                                                                                                                                                                                                 |
| Furnishings                 | Bench            | --                          | Concrete pad                                                                            | -                     | -                                        | -                                   | Concrete pad with broom finish, is flush with surrounding turf                                                                                                                                                                     | Fair        | Bench is missing. Concrete is weathered but still in good condition.                                                                                                                                                                                                                                                          | Replace           | Install new bench or reinstall previously removed bench on existing concrete pad                                                                                                                                                                        |
| Furnishings                 | Bench            | --                          | Concrete pad                                                                            | -                     | -                                        | -                                   | Concrete pad with broom finish.                                                                                                                                                                                                    | Fair        | Bench is missing. Concrete is weathered and is being grown over.                                                                                                                                                                                                                                                              | Remove            | Is it suggested that this concrete pad be removed if not being immediately reinstated as bench pad. If a bench is to be reinstated it is recommended to upgrade the bench pad to meet City of Kitchener accessibility requirements.                     |
| Furnishings                 | Bench            | --                          | Black Powder Coated legs, arm rests and mid-back support and wood slats on concrete pad | Toronto Fabricating   | TFMC Style 7170-6; Downtown Series Bench | 2 units                             | -                                                                                                                                                                                                                                  | Good        | The bench is located on a concrete pad adjacent to the pathway around the Kitchener Rotary Band Stand. The two benches were installed in 2024 as part of the Band Stand upgrades.                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Armour Stone                                                                            | -                     | -                                        | -                                   | Wall surrounding planting bed near bench 96 and 97                                                                                                                                                                                 | Good        | Back of wall is missing chinking between armour stone.                                                                                                                                                                                                                                                                        | Repair            | Gaps between armour stone should be filled.                                                                                                                                                                                                             |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Armour Stone                                                                            | -                     | -                                        | -                                   | -                                                                                                                                                                                                                                  | Good        | Back of wall is missing chinking between armour stone.                                                                                                                                                                                                                                                                        | Repair            | Gaps between armour stone should be filled.                                                                                                                                                                                                             |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Armour Stone                                                                            | -                     | -                                        | -                                   | -                                                                                                                                                                                                                                  | Good        | Back of wall is missing chinking. Plant material migrating between stones.                                                                                                                                                                                                                                                    | Repair            | Gaps between armour stone should be filled.                                                                                                                                                                                                             |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Armour Stone                                                                            | -                     | -                                        | -                                   | -                                                                                                                                                                                                                                  | Good / Fair | some gaps/missing stones                                                                                                                                                                                                                                                                                                      | Repair            | Gaps between armour stone should be filled and missing stones should be replaced.                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone adjacent to rail line                                                                                                                                                                                                  | Very Good   | Armourstone by headwall                                                                                                                                                                                                                                                                                                       | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone adjacent to rail line                                                                                                                                                                                                  | Very Good   | Armourstone by headwall                                                                                                                                                                                                                                                                                                       | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone adjacent to pathway near rail line bridge                                                                                                                                                                              | Very Good   | -                                                                                                                                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone adjacent to bridge 1027 (south-west side)                                                                                                                                                                              | Very Good   | -                                                                                                                                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone adjacent to bridge 1027 (south-east side)                                                                                                                                                                              | Very Good   | -                                                                                                                                                                                                                                                                                                                             | N/A               | -                                                                                                                                                                                                                                                       |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone along edge of pathway and planting bed                                                                                                                                                                                 | Good        | Gaps between armour stone pieces can cause a tripping hazard.                                                                                                                                                                                                                                                                 | Repair            | The addition of smaller pieces of stone or chinking between the existing armour stone can reduce the possibility of a visitor to the park tripping if they were to walk along the armour stone edge.                                                    |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone along edge of pathway and planting bed                                                                                                                                                                                 | Good        | Gaps between armour stone pieces can cause a tripping hazard.                                                                                                                                                                                                                                                                 | Repair            | The addition of smaller pieces of stone or chinking between the existing armour stone can reduce the possibility of a visitor to the park tripping if they were to walk along the armour stone edge.                                                    |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone along edge of pathway and planting bed                                                                                                                                                                                 | Good        | Gaps between armour stone pieces can cause a tripping hazard.                                                                                                                                                                                                                                                                 | Repair            | The addition of smaller pieces of stone or chinking between the existing armour stone can reduce the possibility of a visitor to the park tripping if they were to walk along the armour stone edge.                                                    |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Located adjacent to the playground with approximately a 5 ft. fall height. The armour stone has gaps between the stone creating a tripping hazard. At least 3 stones are located within the fall zone of the playground equipment. | Fair        | The gaps between the armour stone create a tripping hazard and the stones located within the fall zone are a safety concern if someone falls from the playground equipment.                                                                                                                                                   | Repair            | The spacing between the armour stone should be filled with chinking and the stones within the fall zone should be evaluated and relocated if possible.                                                                                                  |
| Landscape & Natural Capital | Retaining Wall   | Concrete                    | Concrete                                                                                | -                     | -                                        | -                                   | Retaining wall with seat and skate guard. Retaining wall has minor pitting of concrete on top.                                                                                                                                     | Good - Fair | -                                                                                                                                                                                                                                                                                                                             | Monitor           | The retaining wall is to be monitor to ensure that pitting of concrete does not expand and create a safety or structural issue.                                                                                                                         |
| Landscape & Natural Capital | Retaining Wall   | Armour Stone                | Limestone                                                                               | -                     | -                                        | 90cm to 1.2m in length              | Armourstone along edge of pathway and planting bed                                                                                                                                                                                 | Fair        | Damaged armourstone at the end of the row.                                                                                                                                                                                                                                                                                    | Monitor           | Monitor the armourstone to prevent further deterioration and ensure it does not become a safety concern.                                                                                                                                                |

Victoria Park - Inventory, Assessment Project Prioritization  
Appendix C - Inventory Data

| Category Code                           | Component      | Sub-Component       | Material                                                           | Manufacturer / Artist | Serial Number | QTY/Units of Measure                       | Additional Info                                                                                                                                                                                                                  | Condition   | Commentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Intervention Type | Intervention Details Narrative                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|----------------|---------------------|--------------------------------------------------------------------|-----------------------|---------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parklands, Paths, trails & Parking Lots | Parking Lot    | -                   | Concrete                                                           | -                     | -             | 8 units                                    | -                                                                                                                                                                                                                                | Fair-Poor   | 8 precast concrete curb stops located along the south side of the drive lane into the maintenance area. Many are chipped, some broken, and none are anchored to the ground.                                                                                                                                                                                                                                                                                                                                                                             | Replace           | Optional replacement. They are functional but not aesthetically pleasing. Potential for hazard since there are chunks of concrete loose.                                                                                                                                                                                                               |
| Parklands, Paths, trails & Parking Lots | Parking Lot    | -                   | Concrete                                                           | -                     | -             | 10 units                                   | -                                                                                                                                                                                                                                | Fair-Poor   | 10 precast concrete curb stops located along the north side of the drive lane into the maintenance area. Many are chipped, some broke, and none are anchored to the ground.                                                                                                                                                                                                                                                                                                                                                                             |                   | Optional replacement. They are functional but not aesthetically pleasing. Potential for hazard since there are chunks of concrete loose.                                                                                                                                                                                                               |
| Parklands, Paths, trails & Parking Lots | Path & Walkway | -                   | Asphalt                                                            | -                     | -             | 3.0m width                                 | -                                                                                                                                                                                                                                | Good/Fair   | Edge of pathway is eroding. Limited grass growth due to salt exposure and pedestrian/vehicular (maintenance vehicle) use                                                                                                                                                                                                                                                                                                                                                                                                                                | Repair            | Pathway is to be widened to accommodate maintenance vehicles, particularly at the curve. Sod is to be applied at edge of pathway to ensure germination and quick establishment.                                                                                                                                                                        |
| Shelters                                | Built Features | Band Shell & Gazebo | Wood frame                                                         | -                     | -             | 1 unit                                     | Additional wood paneling with door and windows added in winter months. Used for Naivety Scene display.                                                                                                                           | Good        | The structure is sound but has some splitting of the wooden posts. Minor aesthetic concerns: paint wear at base of posts, trim broken.                                                                                                                                                                                                                                                                                                                                                                                                                  | Minimal Repair    | Replace damaged trim and repaint roof and posts. Monitor for further deterioration.                                                                                                                                                                                                                                                                    |
| Shelters                                | Built Features | Storage & Utility   | -                                                                  | -                     | 1 unit        | Park Service Shed (Jubilee at Park Street) | -                                                                                                                                                                                                                                | Good - Fair | Paint touchup required, moss on shingled roof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Repair            | Clean moss off of shingles. Monitor for further deterioration. Repaint wood siding where applicable due to vandalism.                                                                                                                                                                                                                                  |
| Sports Fields                           | Basketball     | -                   | Aluminum goal post (unpainted), aluminum back boards, mesh netting | -                     | -             | 1 unit                                     | Direct buried goal post with mounting plate. Aluminum back board attached to mounting plate. Post is installed behind edge of asphalt court. Asphalt court has white line painting that appears to have been recently completed. | Fair        | The basketball net is in good condition. The paving for the court consists of multiple cracks, uneven paving and the edge of the court has deteriorated and begun to break off providing an unsafe runout space and clearance around the court. The basketball net on the north-west side of the court is located closely to a light pole and this can create a safety issue as the light pole is located within the safety runout zone and the light pole has a higher chance of being broken or damaged due to a basketball bouncing off the net rim. | Repair            | The paving for the basketball court should be replaced to provide a smooth surface without any cracks and provide a smooth transition edge to the surrounding grass or pathways. The light pole within the runout zone should be assessed to consider options for relocation or the addition of padding along the light pole post to prevent injuries. |
| Sports Fields                           | Basketball     | -                   | Aluminum goal post (unpainted), aluminum back boards, mesh netting | -                     | -             | 1 unit                                     | Direct buried goal post with mounting plate. Aluminum back board attached to mounting plate. Post is installed behind edge of asphalt court. Asphalt court has white line painting that appears to have been recently completed. | Good        | Surface directly around goal post is uneven and sunken. Edge of asphalt court by goal post is cracked and uneven. Basketball goal post, backboard and net are in good condition.                                                                                                                                                                                                                                                                                                                                                                        | Repair            | The surrounding safety zone around the basketball court should be flush with the asphalt paving and be clear of all obstacles for 3.0m. To ensure a safe "run-out" zone, the surrounding area should be topped up with topsoil and grass seed to ensure it is flush with the asphalt paving.                                                           |
| Stairways & Boardwalks                  | Stairs         | Concrete            | Concrete                                                           | -                     | -             | -                                          | -                                                                                                                                                                                                                                | Good        | Corner of concrete cracked off at top of stairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Monitor           | Concrete stairs should be monitored for future cracking and deterioration. Repairs should be completed if further deterioration occurs.                                                                                                                                                                                                                |
| Stairways & Boardwalks                  | Stairs         | Railings            | Stainless Steel                                                    | -                     | -             | -                                          | -                                                                                                                                                                                                                                | Good        | Rust is occurring at the welds and base of the railing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Repair            | The railing should be evaluated to ensure the rust is not impacting the structural integrity. The railing and hardware should be replaced as required due to rust.                                                                                                                                                                                     |

# Appendix D

## Playground Inspection Report





## 2024 - Playground Safety Inspection Audit Report

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|                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| <b>Location:</b> | <b>Victoria Park</b><br>32 Dill St,<br>Kitchener, ON<br>N2G 1L1 |
|------------------|-----------------------------------------------------------------|

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|                      |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| <b>Prepared For:</b> | <b>AECOM</b><br>50 Sportsworld Crossing Rd., Suite 290, West Entrance,<br>Kitchener, ON<br>N2P 0A4 |
|----------------------|----------------------------------------------------------------------------------------------------|

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|                 |                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| <b>Contact:</b> | <b>Chris Romasz</b><br>647-221-2426<br><a href="mailto:chris.romasz@aecom.com">chris.romasz@aecom.com</a> |
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|-------------------|-------------------|
| <b>Date:</b>      | 17-Jun-24         |
| <b>Inspector:</b> | Andy Constantinou |

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## Annual Playground Inspection Report

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### Company Information

We would like to take this opportunity to thank you for choosing **Safe Play Recreation Inc.** for providing you and your centre with our professional inspection services. You have chosen an inspection firm with high integrity and superior customer satisfaction.

#### Insurance:

**Safe Play Recreation Inc.** is fully insured and carries the following insurance policies:

- Professional Errors and Omissions Liability
- Commercial General Liability

Both insurance policies/certificates are available upon request.

#### 3rd Party Status:

**Safe Play Recreation Inc.** is not affiliated with any manufacturer or supplier of play equipment nor do we repair/retrofit existing equipment; therefore, we are able to offer third party/non-affiliated inspections, audits or consulting services for our customer's playspace and equipment requirements.

**Safe Play Recreation Inc.** declares non-conflict of interest with playground equipment and surfacing manufacturers, suppliers, repair/retrofit contractors, and/or Consultants.

#### Drop Testing:

We perform impact-surfacing tests using the Triax 2015 to record impact data. The only accurate method for testing onsite surface "impact-attenuation" is by using the Triax 2015 to perform complex drop-tests. **Safe Play Recreation Inc.** owns a Triax 2015 and includes this testing on all of its playground inspections (unless not requested).

#### Reporting:

Our playground safety inspections and audits are conducted with the application of the current CSA Standard, CSA-Z614:20. Upon completion of our on-site evaluation, an easy-to-read, detailed and photographic written report will be provided. All deficiencies are noted, have a hazard class applied to it, a digital picture taken for the report and a reference of the applicable clause(s) of the CSA Standard listed. We provide recommendations and possible solutions for the deficiencies found and listed within the report.

#### Consulting:

Our consulting services include the following:

- Development of an action plan to assist owners in addressing equipment deficiencies and concerns
- Provide recommendations in the layout and placement of playspaces and equipment; review site plans prior to installation.
- Provide presentations, seminars, and training regarding playground inspections, such as what to look for during weekly/monthly checks.
- Provide inspections on repairs, retrofits, and installations to ensure compliance with the CSA-Z614:20 Standard.

Please contact us with any questions or are interested in receiving a detailed quote for one of our services. Please do not hesitate to call us toll free at 1-866-227-2779 or email us at [info@safeplayrec.com](mailto:info@safeplayrec.com)

Sincerely,

A handwritten signature in black ink, appearing to read "A. Constantinou".

Andy Constantinou, B.A., B.Ed.

\*Canadian Certified Playground Inspector (CPRA)

\* Registered Playground Practitioner (OPA)

**SAFE PLAY RECREATION INC.** 295 Kenneth Avenue Kitchener ON N2A 1W5  
**T** 519 885 1103 **\* 1 866 227 2779** **F** 519 885 2768 **E** [info@safeplayrec.com](mailto:info@safeplayrec.com) **W** [www.safeplayrec.com](http://www.safeplayrec.com)



## Annual Playground Inspection Report

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### Introduction to Inspection

#### **Introduction and Abstract Information:**

1. This report summarizes the results of the playspace and playground equipment inspections performed by Safe Play Recreation Inc.
2. The inspection is valid at time of inspection and is essentially a "snapshot in time" of the condition of the playspace and playground equipment. There is no guarantee or timeline (e.g. inspection valid for 1 year) for this inspection. The results observed and recorded reflect the condition of the playspace and equipment "at time of inspection".
3. The responsibility of the playspace and equipment falls upon the owner/operator and it is the responsibility of the owner/operator and/or the users of this report to decide its suitability for their own particular purpose. Safe Play Recreation Inc. does not warrant the suitability of this inspection or report to any particular purpose. The responsibility on how to utilize this report lies with the owner/operator of the playspace and equipment.
4. The playground inspection procedure consists of detailed steps and procedures that are based on the criteria set by the **CSA-Z614:20 Children's Playground Equipment and Surfacing** developed by the Canadian Standards Association, operating as "CSA Group".

### Hazard Identification Section

**Safe Play Recreation Inc.** uses one (1) set of hazard class ratings. All deficiencies/hazards are identified using the letters **"A, B or C"**. All CSA-compliant items are noted as **"0"** (zero).

#### Hazard Identifications:

- "A"** Hazards which are life-threatening or permanently disabling (e.g. head and neck entrapment, drawstring entanglement, structural integrity, fall height, inadequate depth and dimensions of protective surfacing material, exposed steel, wood or concrete above the level of protective surface).
- "B"** Hazards which are serious and may cause non-disabling injury (e.g. crush or shear points, protrusions, sharp edges).
- "C"** Hazards that may cause slight injury, or equipment not in compliance with CSA Z614:20, other than those under hazards A and B.
- "0"** An item or situation that has been assessed as safe and CSA-compliant at time of inspection **OR** an item or situation that could develop into a hazard in the future (based on the inspector's assessment). Now noted and made aware of - monitor.



## Annual Playground Inspection Report

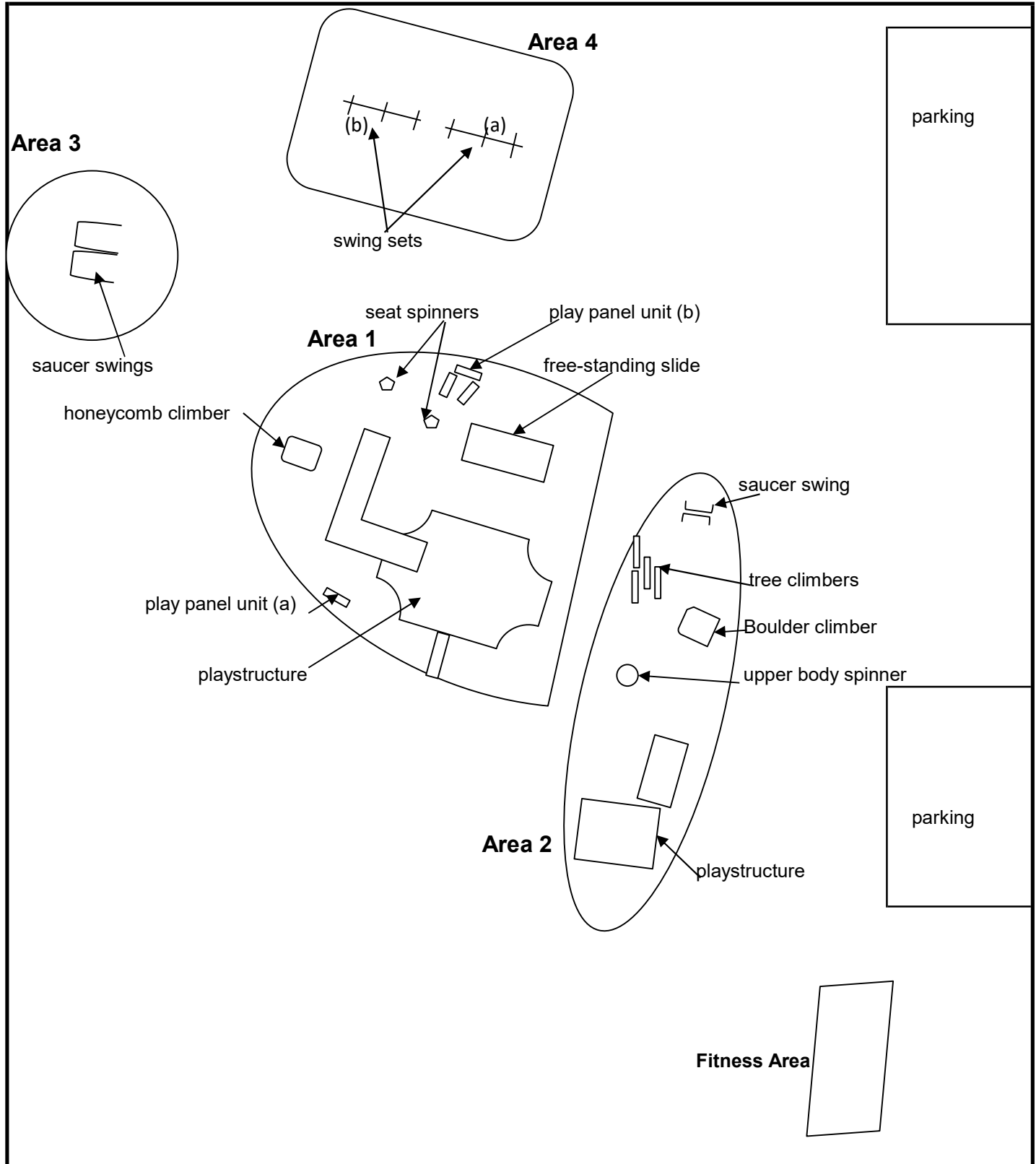
### Data & Inventory Section

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Customer:</b>                        | AECOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Location:</b>                        | Victoria Park - 32 Dill St., Kitchener, ON N2G 1L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Date of Inspection:</b>              | 17-Jun-24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Time of Inspection:</b>              | 7:45 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Weather Conditions:</b>              | Clear, Sunny, 18 degrees Celsius                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Inspected By:</b>                    | Andy Constantinou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Size of Area:</b>                    | Area 1: ~ 22.2m x 24.2m<br>Area 2: ~ 39m x 18.6m<br>Area 3: ~ 8.5m x 9.1m<br>Area 4: ~ 13.4m x 26.8m<br>Fitness Area: ~ 6.4m x 23.5m                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Site Description:</b>                | Area 1: 1-Composite Playstructure, 1-Free-Standing Spiral Slide, 2-Play Panel Units, 2-Seat Spinners, 1-Honeycomb Climber, 1-Rubber Protective Surface.<br>Area 2: 1-Composite Playstructure, 1-One-Bay Saucer Swing, 5-Tree-Climbers, 1-Upper Body Spinner, 1-Boulder Climber, 1-Wood Chip Protective Surface.<br>Area 3: 1-Two-Bay Saucer Swing Set, 1-Sand Surface.<br>Area 4: 2-Two-Bay Swing Sets, 1-Sand Surface.<br>Fitness Area: 1-Jump Pod Set, 1-Hand Bike, 1-Double Chest Press, 1-Power Bike/Sit Up Bench, 1-Free Runner/Cross Trainer, 1-Hex Pull Up Unit, 1-Sign, 1-Rubber Surface |
| <b>Manufacturer of Equipment:</b>       | Area 1: GameTime (Crozier 1-800-665-3821)<br>Area 2: GameTime (Crozier 1-800-665-3821)<br>Area 3: Dynamo<br>Area 4: Unknown (no label present)<br>Fitness Equipment: Kompan (1-800-426-9788)                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Installation Date &amp; Model #:</b> | Area 1: 08-12-2014; Order #4273406 (label on playstructure)<br>Area 2: 13-12-2014; Order #4272404 (label on playstructure)<br>Area 3: 08-1998; label has faded (non-legible)<br>Area 4: Unknown (no label present)<br>Fitness Equipment: Installation Date: July 2020; Jump Pod: # FSW22100-xx00, Hand Bike: # KPX130-xx17, Push Up Bars: # KPX126-xx17, Double Chest Press: # KPX131-xx17, Power Bike: # KPX222-xx17, Free Runner: # KPX225-xx17, Hex Pull Up: # FSW21700-xx00.                                                                                                                 |
| <b>Age Group:</b>                       | Area 1: 18 months - 12 years<br>Area 2: 5 - 12 years<br>Area 3: label not legible (estimated 5 - 12 years)<br>Area 4: Swing Set (a): 5 - 12 years; Swing Set (b): 2 - 5 years<br>Fitness Areas: 13 years and older                                                                                                                                                                                                                                                                                                                                                                               |

## Data & Inventory Section

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment Description:</b> | <p><u>Area 1 - Playstructure:</u> 28-posts, 5-platforms, 4-ramps, 2-activity panels, 1-steering wheel panel, 1-single stainless steel slide, 1-curved rung climber, 1-vertical rung climber, 1-stainless steel double slide, 1-pod climber, 1-single pod access component, 1-bench barrier panel, 1-glider, 8-leaf top ornaments, 1-hand spinner, 1-rung chain wall climber, 2-rock wall climbers, 3-mushroom steppers, 1-bee sculpture, 1-horizontal overhead bar with vertical rung climber, 4-ground stepping stones, 1-crawl tunnel.</p> <p><u>Free-Standing Spiral Slide:</u> 8-posts, 3-platforms, 1-stairs, 2-sets of transition steps, 1-spiral slide.</p> <p><u>Play Panel Unit (a):</u> 2-posts, 1-seat, 1-animal tracker panel, 1-tree top ornament.</p> <p><u>Play Panel Unit (b):</u> 5-posts, 4-seats, 2-sets of bongo drums, 2-theatre panels.</p> <p><u>Honeycomb Climber:</u> 4-posts, 3-block tunnel climbing components.</p> <p><u>Seat Spinners:</u> each has 1-post, 1-leaf top seat spinner.</p> <p><u>Area 2 - Playstructure:</u> 33-posts, 5-platforms, 1-access/transfer platform, 1-set of transition steps, 3-ramps, 1-spinning play panels, 1-double steering wheel panel, 2-single stainless steel slides, 1-stump climber, 1-bench barrier panel, 1-ladder climber, 1-double stainless steel slide, 1-vertical rung climber, 1-overhead climber, 1-twisted rung climber, 3-upper body spinners, 1-challenge bridge (3-pod poles), 1-triton climber (3-suspended plastic disks), 1-curved plastic climber, 1-step climber, 7-tree top ornaments.</p> <p><u>Boulder Climber:</u> 1-Sculpted large Boulder climber.</p> <p><u>Saucer Swing:</u> 4-posts, 1-saucer swing set.</p> <p><u>Tree Climbers:</u> 5-posts each with 6-steps, 4-handgrips and 1-tree top ornament.</p> <p><u>Upper Body Spinner:</u> 1-post, 1-spinning top with hand-gripping rung.</p> <p><u>Area 3 - Saucer Swing Set:</u> 3-posts, 2-saucer swing seats..</p> <p><u>Area 4 - Swing Set (a):</u> 8-posts, 3-belt swing seats, 1-parent-child swing seat.</p> <p><u>Area 4 - Swing Set (b):</u> 8-posts, 4-bucket swing seats.</p> <p><u>Fitness Area - Jump Pod:</u> 3-posts, 3-pods.</p> <p><u>Hand Bike:</u> 2-posts, 1-seat, 1-hand-bike.</p> <p><u>Push Up Bars:</u> 1-posts, 2-sets of push-up bars (arm/hand grips).</p> <p><u>Double Chest Press:</u> 1-post, 2-sets of chest press (extension grips).</p> <p><u>Power Bike/Sit Up Bench:</u> 1-bike unit (seat, foot pedals), 1-bench.</p> <p><u>Free Runner/Cross Trainer:</u> 2-posts, 1-elliptical unit, 1-pedal swings.</p> <p><u>Hex Pull Up:</u> 6-posts, 6-chin-up bars.</p> |
| <b>*Platform Heights:</b>     | <p>Area 1 - Playstructure: 1 @ 1 @ 0.45m, 2 @ 0.75m, 2 @ 0.9m</p> <p>Spiral Slide Unit: 1 @ 1.5.8m, 1 @ 3.1m, 1 @ 3.6m</p> <p>Area 2 - Playstructure: 1 @ 1.3m, 2 @ 1.6m, 1 @ 1.9m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Site Plan**



### Data & Inventory Section (continued)

|                                                   |                                                                                                                      |                             |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Type of Protective Surface:</b>                | Area 1: PIP (Poured-In-Place) rubber                                                                                 |                             |
|                                                   | Area 2: EWF (Engineered Wood Fiber)                                                                                  |                             |
|                                                   | Area 3: Wood Chips                                                                                                   |                             |
|                                                   | Area 4: Sand                                                                                                         |                             |
|                                                   | Fitness Area: Rubber Tiles                                                                                           |                             |
| <b>Containment of Protective Surface:</b>         | Areas 1 & 2: Asphalt                                                                                                 |                             |
|                                                   | Areas 3 & 4: Grass (excavated)                                                                                       |                             |
|                                                   | Fitness Area: Concrete Curb                                                                                          |                             |
| <b>Depth of Protective Surface:</b>               | Area 1: N/A                                                                                                          |                             |
|                                                   | Area 2: 350mm - 400mm                                                                                                |                             |
|                                                   | Area 3: 225mm - 300mm                                                                                                |                             |
|                                                   | Area 4: ~ 325mm                                                                                                      |                             |
|                                                   | Fitness Area: N/A                                                                                                    |                             |
| <b>Temperature of Surfacing:</b>                  | Area 1                                                                                                               | Area 2                      |
|                                                   | Drop #1: 24 degrees Celsius                                                                                          | Drop #1: 26 degrees Celsius |
|                                                   | Drop #2: 29 degrees Celsius                                                                                          | Drop #2: 27 degrees Celsius |
|                                                   | Drop #3: 28 degrees Celsius                                                                                          | Drop #3: 27 degrees Celsius |
|                                                   | Drop #4: 31 degrees Celsius                                                                                          | Drop #4: 26 degrees Celsius |
|                                                   | Drop #5: 33 degrees Celsius                                                                                          | Drop #5: 27 degrees Celsius |
|                                                   |                                                                                                                      | Drop #6: 27 degrees Celsius |
|                                                   | Area 3                                                                                                               | Area 4                      |
|                                                   | Drop #1: 24 degrees Celsius                                                                                          | Drop #1: 27 degrees Celsius |
|                                                   | Drop #2: 27 degrees Celsius                                                                                          | Drop #2: 27 degrees Celsius |
|                                                   | Drop #3: 27 degrees Celsius                                                                                          | Drop #3: 27 degrees Celsius |
|                                                   | Fitness Area: N/A                                                                                                    |                             |
| <b>Fall Height:</b>                               | Area 1 - Playstructure: 1.9m; Free-Standing Slide: 3.6m; Honeycomb Climber: 1.2m; Seat Spinners: 0.45m.              |                             |
|                                                   | Area 2 - Playstructure: 2.1m; Upper Body Spinner: 2m; Boulder Climber: 1.9m; Tree Climbers: 1.8m; Saucer Swing: 2.3m |                             |
|                                                   | Area 3 - Saucer Swing Set: 2.1m                                                                                      |                             |
|                                                   | Area 4 - Swing Sets: 2.4m                                                                                            |                             |
|                                                   | Fitness Equipment: N/A                                                                                               |                             |
| <b>Surface Compaction Present:</b>                | No - Areas 1,2,3; Yes - Area 4                                                                                       |                             |
| <b>Surface Hardpan Present:</b>                   | No                                                                                                                   |                             |
| <b>Surface Area Contamination Present:</b>        | No                                                                                                                   |                             |
| <b>Surface Impact Attenuation Test Performed:</b> | Yes                                                                                                                  |                             |

The surface impact attenuation drop test data is listed below.

This data is used to determine the energy absorbency of the surfacing material in accordance to the compliance requirements of Clause 10.1 of the CSA-Z614:20 Standard. Surfacing compliance is achieved when the GMAX (Maximum Gravitational Force of Impact) is less than 200 and the HIC (Head Injury Criteria) is less than 1000 from the defined critical fall height of the play equipment.



## Data & Inventory Section (continued)

### Impact Attenuation Test Results - Area 1:

**Drop #1: At 0.9 metre height beside the single slide at the playstructure.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 62   | 194 | No    |
| 2              | 60   | 185 |       |
| 3              | 58   | 175 |       |
| <b>Average</b> | 59   | 180 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #2: At 1.9 height in front of the rung chain climber at the playstructure.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 84   | 385 | No    |
| 2              | 85   | 382 |       |
| 3              | 85   | 376 |       |
| <b>Average</b> | 85   | 379 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #3: At 1.9 metre height in front of the rock wall climber at the playstructure.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 101  | 529 | No    |
| 2              | 102  | 526 |       |
| 3              | 102  | 528 |       |
| <b>Average</b> | 102  | 527 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #4: At 1.2 metre height beside the block climber.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 107  | 473 | No    |
| 2              | 118  | 545 |       |
| 3              | 126  | 559 |       |
| <b>Average</b> | 122  | 552 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #5: At 3.6 metre height beside the free-standing spiral slide.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 67   | 439 | No    |
| 2              | 70   | 447 |       |
| 3              | 74   | 459 |       |
| <b>Average</b> | 72   | 453 |       |

**Result:** Impact attenuation **was** achieved at this location.

### Impact Attenuation Test Results - Area 2:

**Drop #8: At 1.9 metre height beside the double stainless steel slide at the playstructure.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 47   | 199 | No    |
| 2              | 46   | 185 |       |
| 3              | 48   | 179 |       |
| <b>Average</b> | 47   | 182 |       |

**Result:** Impact attenuation **was** achieved at this location.

**\*Note: The average is of drops 2 and 3 only (as per the requirements of ASTM F1292).**

## Data & Inventory Section (continued)

### Impact Attenuation Test Results - Area 2 continued:

**Drop #2: At 2.1 metre height beside the disc climber of the playstructure.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 59   | 170 | No    |
| 2              | 59   | 163 |       |
| 3              | 55   | 153 |       |
| <b>Average</b> | 57   | 158 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #3: At 2 metre height beside the upper body spinner.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 72   | 308 | No    |
| 2              | 67   | 275 |       |
| 3              | 65   | 267 |       |
| <b>Average</b> | 66   | 271 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #4: At 1.9 metre height beside the Boulder climber.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 51   | 122 | No    |
| 2              | 53   | 144 |       |
| 3              | 57   | 160 |       |
| <b>Average</b> | 55   | 152 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #5: At 2.3 metre height in front of the saucer swing set**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 70   | 244 | No    |
| 2              | 66   | 236 |       |
| 3              | 64   | 232 |       |
| <b>Average</b> | 65   | 234 |       |

**Result:** Impact attenuation **was** achieved at this location.

### Impact Attenuation Test Results - Area 3:

**Drop #1: At 2.1 metre height in front of the right swing bay.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 80   | 388 | No    |
| 2              | 92   | 459 |       |
| 3              | 98   | 475 |       |
| <b>Average</b> | 95   | 467 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #2: At 2.1 height in front of the left swing bay.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 73   | 372 | No    |
| 2              | 85   | 398 |       |
| 3              | 91   | 432 |       |
| <b>Average</b> | 88   | 415 |       |

**Result:** Impact attenuation **was** achieved at this location.

**\*Note: The average is of drops 2 and 3 only (as per the requirements of ASTM F1292).**

### Impact Attenuation Test Results - Area 3 continued:

**Drop #3: At 2.1 metre height behind the left swing bay.**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 76   | 389 | No    |
| 2              | 88   | 444 |       |
| 3              | 94   | 474 |       |
| <b>Average</b> | 91   | 459 |       |

**Result:** Impact attenuation **was** achieved at this location.

### Impact Attenuation Test Results - Area 4:

**Drop #1: At 2.4 metre height in front of the right swing bay at swing set (a).**

| Drop           | GMAX | HIC  | Pic # |
|----------------|------|------|-------|
| 1              | 212  | 2080 | No    |
| 2              | 190  | 932  |       |
| 3              | 170  | 844  |       |
| <b>Average</b> | 180  | 888  |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #2: At 2.4 metre height behind the left swing bay at swing set (a)**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 55   | 211 | No    |
| 2              | 56   | 216 |       |
| 3              | 56   | 222 |       |
| <b>Average</b> | 56   | 219 |       |

**Result:** Impact attenuation **was** achieved at this location.

**Drop #3: At 2.4 metre height in front of the parent child swing seat at swing set (b).**

| Drop           | GMAX | HIC | Pic # |
|----------------|------|-----|-------|
| 1              | 66   | 363 | No    |
| 2              | 68   | 368 |       |
| 3              | 68   | 374 |       |
| <b>Average</b> | 68   | 371 |       |

**Result:** Impact attenuation **was** achieved at this location.

**\*Note: The average is of drops 2 and 3 only (as per the requirements of ASTM F1292).**

## Inspection Results Section

### Pictures of Areas Being Inspected:



**Area 1**



**Area 1 - Playstructure**



**Area 1 - Playstructure**



**Area 1 - Playstructure**



**Area 1 - Free-Standing Slide**



**Area 1 - Honeycomb Climber**



**Area 1 - Play Panel Unit (b) and  
Seat Spinners**



**Area 2 - Play Panel Unit (a)**



**Area 2**



**Area 2 - Tree Climbers**



**Area 2 - Saucer Swing**



**Area 2 - Boulder Climber**



## Inspection Results Section

### Pictures of Areas Being Inspected:



**Area 2 - Upper Body Spinner**



**Area 2 - Playstructure**



**Area 2 - Playstructure**



**Area 3 - Saucer Swing Set**



**Area 4 - 2-Two-Bay Swing Sets**



**Area 4 - Swing Set (a)**



**Area 4 - Swing Set (b)**



**Fitness Area**



**Fitness Area**

## Annual Playground Inspection Report

### Inspection Results Section (page 2)

#### Inspection Results:

| Inspection Item                     | Complies with CSA |    |     | Comments/Details                                                                                                                                             | CSA Clause or Chapter                                                                                                                                                                               | Hazard ID  | Picture #                             |
|-------------------------------------|-------------------|----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|
|                                     | Yes               | No | N/A |                                                                                                                                                              |                                                                                                                                                                                                     |            |                                       |
| <b>Materials</b>                    | ✓                 | ✗  |     | Area 1 - Rubber surfacing is damaged - receding from asphalt, lifting from asphalt in spots<br><br>Area 3 - Saucer swing seats are wearing (exterior rubber) | 7.1                                                                                                                                                                                                 | C<br><br>0 | 1,2,3,4<br>5,6,7,<br>8,9,10<br><br>11 |
| <b>Installation</b>                 | ✓                 |    |     | Area 1 - Glider is not level                                                                                                                                 | Trip Hazard                                                                                                                                                                                         | 0          | 12                                    |
| <b>Structural Integrity</b>         | ✓                 |    |     | No faults noted                                                                                                                                              | 9.1                                                                                                                                                                                                 | 0          |                                       |
| <b>Surfacing</b>                    |                   | ✗  |     | Area 1 - Rubber surfacing is damaged (torn, missing) - receding from asphalt, lifting from asphalt in spots                                                  | 10.4.7 - All protective surfacing shall be replaced or repositioned when it is worn or ceases to function as intended                                                                               | C          | 1,2,3,4<br>5,6,7,<br>8,9,10           |
|                                     |                   | ✗  |     | Fitness Area - Rubber tile surfacing is uneven (heaved and sunk) and separated in spots                                                                      |                                                                                                                                                                                                     | C          | 13,14,<br>15,16                       |
| <b>Head &amp; Neck Entrapment</b>   | ✓                 |    |     | No faults noted                                                                                                                                              | 12.2                                                                                                                                                                                                | 0          |                                       |
| <b>Sharp Pts. &amp; Protrusions</b> | ✓                 |    |     | No faults noted                                                                                                                                              | 12.3                                                                                                                                                                                                | 0          |                                       |
| <b>Entanglement</b>                 |                   | ✗  |     | Area 2 - 1-entanglement hazard at right side of double slide                                                                                                 | 12.4.1 Protection against entanglement. In areas of uncontrolled motion (e.g., on a slide or sliding pole), there shall be no entanglement hazards that can entangle drawstrings or other clothing. | A          | 17                                    |
| <b>Crush or Shear Pts..</b>         | ✓                 |    |     | No faults noted                                                                                                                                              | 12.5                                                                                                                                                                                                | 0          |                                       |
| <b>Access/Egress</b>                | ✓                 |    |     | No faults noted                                                                                                                                              | 13                                                                                                                                                                                                  | 0          |                                       |

## Annual Playground Inspection Report

### Inspection Results Section (page 2)

#### Inspection Results:

| Inspection Item                  | Complies with CSA |    |     | Comments/Details                                                                                       | CSA Clause or Chapter                                                                                                                                                              | Hazard ID | Picture #    |
|----------------------------------|-------------------|----|-----|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
|                                  | Yes               | No | N/A |                                                                                                        |                                                                                                                                                                                    |           |              |
| <b>Playspace Layout</b>          |                   | X  |     | Area 3 - Protective surfacing zone is short on one (1) side of Saucer Swing Set (measures ~ 1.5m)      | 14.4.1.4 - The protective surfacing zones at the sides of the swing structure shall extend in a semicircle not less than 1.8m (70.87 in), measured from the end of the top beam... | C         | 18,19        |
| <b>Climbers</b>                  | ✓                 |    |     | No faults noted                                                                                        | 15.3                                                                                                                                                                               | 0         |              |
| <b>Upper Body Equip.</b>         | ✓                 |    |     | No faults noted                                                                                        | 15.4                                                                                                                                                                               | 0         |              |
| <b>Slides</b>                    | ✓                 |    |     | No faults noted                                                                                        | 15.6                                                                                                                                                                               | 0         |              |
| <b>Swings</b>                    | ✓                 |    |     | No faults noted                                                                                        | 15.7                                                                                                                                                                               | 0         |              |
| <b>Rotating Equipment</b>        | ✓                 |    |     | No faults noted                                                                                        | 15.9                                                                                                                                                                               | 0         |              |
| <b>Springing Equipment</b>       | ✓                 |    |     | No faults noted                                                                                        | 15.11                                                                                                                                                                              | 0         |              |
| <b>Equipment Support Posts</b>   | ✓                 |    |     | No faults noted                                                                                        | 15.19                                                                                                                                                                              | 0         |              |
| <b>Identification &amp; Info</b> | ✓                 |    |     | Manufacturer's labels are present in Areas 1, 2 and 3.                                                 | 16.1                                                                                                                                                                               | 0         | 20,21, 22,23 |
|                                  |                   | X  |     | Area 1 - Manufacturer's label missing at free-standing slide and block climber                         |                                                                                                                                                                                    | C         |              |
|                                  |                   | X  |     | Area 2 - Manufacturer's label and user age group label missing at the saucer swing, upper body spinner |                                                                                                                                                                                    | C         |              |
|                                  |                   | X  |     | Area 3 - Label has worn and is not legible; user age group missing                                     |                                                                                                                                                                                    | C         | 24           |
|                                  |                   | X  |     | Area 4 - Manufacturer's label missing                                                                  |                                                                                                                                                                                    | C         |              |
|                                  |                   | X  |     | Area 2 - Manufacturer's label at boulder climber is worn and not legible                               |                                                                                                                                                                                    | C         | 25           |
|                                  | ✓                 |    |     | Fitness Area - Pictogram signage present                                                               |                                                                                                                                                                                    | 0         | 26           |
|                                  | ✓                 |    |     | Fitness Area - Manufacturer's labels are present                                                       |                                                                                                                                                                                    | 0         | 27           |

#### Other:

|                |  |  |   |                                                                                                       |             |   |       |
|----------------|--|--|---|-------------------------------------------------------------------------------------------------------|-------------|---|-------|
| <b>Grounds</b> |  |  | ✓ | Area 2 - Adjacent boulder retaining wall has gaps present that pose potential foot entrapment hazards | Trip Hazard | 0 | 28,29 |
|----------------|--|--|---|-------------------------------------------------------------------------------------------------------|-------------|---|-------|



## Annual Playground Inspection Report

### Deficiency & Reference Picture Section



**#1 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#2 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



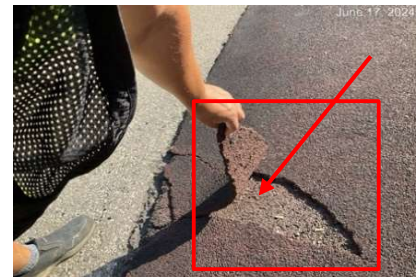
**#3 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#4 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#5 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#6 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#7 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#8 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#9 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



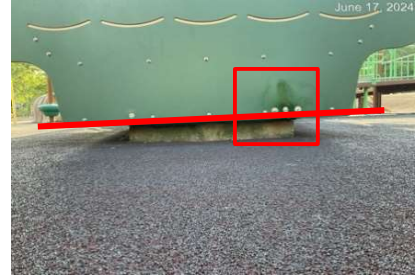
## Deficiency & Reference Picture Section



**#10 - Area 1 - Rubber surfacing is damaged (torn, loose, missing), receding from asphalt, and lifting from asphalt in spots**



**#11 - Area 3 - Saucer swing seats are wearing (exterior rubber)**



**#12 - Area 1 - The Glider that is attached to the playstructure is not level**



**#13 - Fitness Area - Rubber tile surfacing is uneven (heaved and sunk) and separated in spots**



**#14 - Fitness Area - Rubber tile surfacing is uneven (heaved and sunk) and separated in spots**



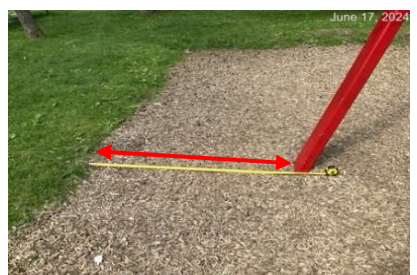
**#15 - Fitness Area - Rubber tile surfacing is uneven (heaved and sunk) and separated in spots**



**#16 - Fitness Area - Rubber tile surfacing is uneven (heaved and sunk) and separated in spots**



**#17 - Area 2 - String entanglement hazard present on the right side of the double stainless steel slide (between barrier rail and support post)**



**#18 - Area 3 - Protective surfacing zone is short on one (1) side of Saucer Swing Set (measures ~ 1.5m)**

## Annual Playground Inspection Report

### Deficiency & Reference Picture Section



**#19 - Area 3 - Protective surfacing zone is short on one (1) side of Saucer Swing Set (measures ~ 1.5m)**



**#20 - Manufacturer's labels are present in Areas 1, 2 & 3**



**#21 - Manufacturer's labels are present in Areas 1, 2 & 3**



**#22 - Manufacturer's labels are present in Areas 1, 2 & 3**



**#23 - Manufacturer's labels are present in Areas 1, 2 & 3**



**#24 - Area 3 - Manufacturer's label at Saucer Swing is worn and not legible; user age group label not present**



**#25 - Area 2 - Label at Boulder Climber is worn and missing info (not legible)**



**#26 - Fitness Area - Pictogram signage present**



**#27 - Fitness Area - Manufacturer's labels are present**





**#28 - Area 2 - Monitor adjacent boulders as large gaps are present that pose foot entrapment hazards**



**#29 - Area 2 - Monitor adjacent boulders as large gaps are present that pose foot entrapment hazards**

### **Conclusions & Recommendations Section**

The playground equipment and playspace area were assessed based on the CSA-Z614:20 Standard. There were several CSA-deficiencies found at time of inspection. The equipment list with any deficiencies are listed below, followed by surfacing, signage and grounds.

#### **Area 1**

##### **Playstructure:**

1. One (1) of the exterior plastic barriers at the glider of the playstructure is damaged (burned); no sharp edges present. Okay at time of inspection. Monitor.
2. The glider is not level. Monitor.

##### **Free-Standing Spiral Slide:**

No faults found with equipment. See signage below.

##### **Honeycomb Climber:**

No faults found with equipment.

##### **Seat Spinners:**

No faults found with equipment.

##### **Play Panel Units:**

No faults found with equipment.

#### **Area 2**

##### **Playstructure:**

1. There is one (1) entanglement hazard present at the right side of the double slide between the side barrier and the support post. Repair.
2. No other CSA-deficiencies found with playstructure.

##### **Saucer Swing Set:**

No faults found with equipment. See signage below.

##### **Tree Climbers:**

No faults found with equipment.

##### **Upper Body Spinner:**

No faults found with equipment.

##### **Boulder Climber:**

No faults found with equipment. See signage below.

#### **Area 3**

##### **Two-Bay Saucer Swing Set:**

1. The protective surfacing zone (PSZ) is short on one (1) side of the Saucer Swing Set. The PSZ measures ~ 1.5m, where a minimum of 1.8m is required. Repair.
2. The exterior rubber around the swing seats is wearing. Okay at time of inspection. Monitor.
3. See signage below.



### Conclusions & Recommendations Section

#### **Area 4**

##### **Two-Bay Swing Set (a):**

No faults found with equipment. See signage below.

##### **Two-Bay Swing Set (b):**

No faults found with equipment. See signage below.

#### **Fitness Area**

##### **Jump Pod Set:**

No faults found with equipment.

##### **Hand Bike:**

No faults found with equipment.

##### **Double Chest Press:**

No faults found with equipment.

##### **Power Bike/Sit Up Bench:**

No faults found with equipment.

##### **Free Runner/Cross Trainer:**

No faults found with equipment.

##### **Hex Pull Up Unit:**

No faults found with equipment.

##### **Independent Sign:**

No faults found with sign.

#### **Surfacing:**

1. Area 1 - The rubber surfacing is damaged (torn, loose, missing, lifting at edges) in several spots, particularly the perimeter. Recommend repairing the damaged areas and/or replacement of the entire rubber surface.
2. Area 2 - The EWF (Engineered Wood Fiber) surfacing is in good condition. Adequate depth and condition present at time of inspection.
3. Area 3 - The wood chip surfacing is in good condition. Adequate depth and condition present at time of inspection.
4. Area 4 - The sand surfacing is in good condition. Adequate depth but a significant amount of compaction present at time of inspection. Recommend loosening (i.e. rototilling) the sand on a regular basis.
5. Fitness Equipment - The rubber tile surfacing is in poor condition. The rubber tiles are uneven (heaved and sunk in spots) and separating (e.g. gaps between tiles). Recommend replacement of the rubber surface.
6. The drop testing produced CSA-compliant data at each of the locations tested. A proper maintenance program should be implemented to regularly clean and rake (loose fill) the protective surfacing materials. This will help to prevent compaction and contamination.



## Annual Playground Inspection Report

### Conclusions & Recommendations Section

#### Signage:

1. There are manufacturer's labels present in Areas 1, 2 and 3.
2. Area 1 - The manufacturer's label is missing at the Free-Standing Spiral Slide and Honeycomb Climber. Repair.
3. Area 2 - The manufacturer's label and user age group label are missing at the saucer swing and at the upper body spinner. Repair.
4. Area 2 - The manufacturer's label at the Boulder Climber is wearing and not legible. Repair.
5. Area 3 - The manufacturer's label has worn and is not legible. Repair.
6. Area 4 - The manufacturer's label is missing. Repair.
7. Fitness Equipment Area - The manufacturer's label is present. No faults found. There are pictogram signage present. No faults found.

#### Grounds:

1. The adjacent boulder retaining wall in Area 2 has several large gaps between the armour stone, which pose potential foot entrapment hazards. Monitor but recommend filling in the gaps between the stones (i.e. reducing the size of the gaps).
2. No faults found with the adjacent walkways.

Please direct any questions or concerns to **Safe Play Recreation Inc.** at 1-866-227-2779 or email us at [info@safeplayrec.com](mailto:info@safeplayrec.com)

Date: 17-Jun-24

Inspector's Signature: A. Constantinou

Andy Constantinou

**Errors & Omissions** - In preparing this report, Safe Play Recreation Inc., assumes no liability whatsoever for any errors, omissions, or inaccuracies, either contained herein, or in the interpretation of the CSA-Z614:20, Children's Playspaces and Equipment - A National Standard of Canada.

## Annual Playground Inspection Report

### Budget Estimating Data

| Area | Equipment           | Estimated Lifespan | Repair                                   | Maintenance | Decommission | Recommendations (Short, Med., Long Term)                                     | Estimated Cost         |
|------|---------------------|--------------------|------------------------------------------|-------------|--------------|------------------------------------------------------------------------------|------------------------|
| 1    | Playstructure       | 6-8 years          | Glider is not level; trip hazard present | Yes         | No           | Short: adjust glider<br>Med/Long: Inspect                                    | <b>\$1500 (repair)</b> |
| 1    | Free-Standing Slide | 5-7 years          | Signage                                  | Yes         | No           | Short: install manufacturer and user age group label(s)<br>Med/Long: Inspect | <b>\$150 (repair)</b>  |
| 1    | Block Climber       | 3-5 years          | Signage                                  | Yes         | No           | Short: install manufacturer and user age group label(s)<br>Med/Long: Inspect | <b>\$150 (repair)</b>  |
| 1    | Play Panel Units    | 5-7 years          | None                                     | Yes         | No           | Monitor/Inspect regularly                                                    | <b>\$0</b>             |
| 1    | Seat Spinners       | 5-7 years          | None                                     | Yes         | No           | Monitor/Inspect regularly                                                    | <b>\$0</b>             |
| 2    | Playstructure       | 6-8 years          | None                                     | Yes         | No           | Monitor                                                                      | <b>\$0</b>             |
| 2    | Tree Climbers       | 6-8 years          | None                                     | Yes         | No           | Monitor                                                                      | <b>\$0</b>             |
| 2    | Boulder Climber     | 4-6 years          | None                                     | Yes         | No           | Monitor                                                                      | <b>\$0</b>             |
| 2    | Upper Body Spinner  | 4-6 years          | None                                     | Yes         | No           | Monitor                                                                      | <b>\$0</b>             |
| 2    | Saucer Swing        | 6-8 years          | None                                     | Yes         | No           | Monitor                                                                      | <b>\$0</b>             |
| 3    | Saucer Swing        | 5-7 years          | Signage                                  | Yes         | No           | Short: replace existing labels (not legible)                                 | <b>\$250 (repair)</b>  |



## Annual Playground Inspection Report

### Budget Estimating Data

| Area | Equipment     | Estimated Lifespan | Repair  | Maintenance | Decommission | Recommendations (Short, Med., Long Term) | Estimated Cost        |
|------|---------------|--------------------|---------|-------------|--------------|------------------------------------------|-----------------------|
| 4    | Swing Set (a) | 5-7 years          | Signage | Yes         | No           | Short: install manufacturer's label      | <b>\$150 (repair)</b> |
|      | Swing Set (b) | 5-7 years          | Signage | Yes         | No           | Short: install manufacturer's label      | <b>\$150 (repair)</b> |

|                          |     |           |      |     |    |         |            |
|--------------------------|-----|-----------|------|-----|----|---------|------------|
| <b>Fitness Equipment</b> | all | 5-7 years | None | Yes | No | Monitor | <b>\$0</b> |
|--------------------------|-----|-----------|------|-----|----|---------|------------|

#### Surfacing

|   |                     |           |                      |     |     |                                                                                                                                   |                           |
|---|---------------------|-----------|----------------------|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 1 | Rubber Surfacing    | 1 year    | Yes - repair/replace | Yes | Yes | Short: repair or replace the rubber surface<br>Medium: drop test, clean and inspect regularly<br>Long: replace/repair as required | <b>\$100,000 (Repair)</b> |
| 2 | EWf surfacing       | 2 years   | No                   | Yes | No  | Short/Med/Long: Top up EWf annually                                                                                               | <b>\$4,000</b>            |
| 3 | Wood Chip Surfacing | 2 years   | No                   | Yes | No  | Short/Med/Long: Top up wood chips                                                                                                 | <b>\$2,000</b>            |
| 4 | Sand Surfacing      | 2-4 years | Yes - loosen         | Yes | No  | Short: loosen (e.g. rototill)<br>Medium: top up<br>Long: replace (2-4 years)                                                      | <b>\$4,000</b>            |

**Equipment replacement costs are not included. Contact playground manufacturers/companies for replacement costs of equipment.**



# Appendix E

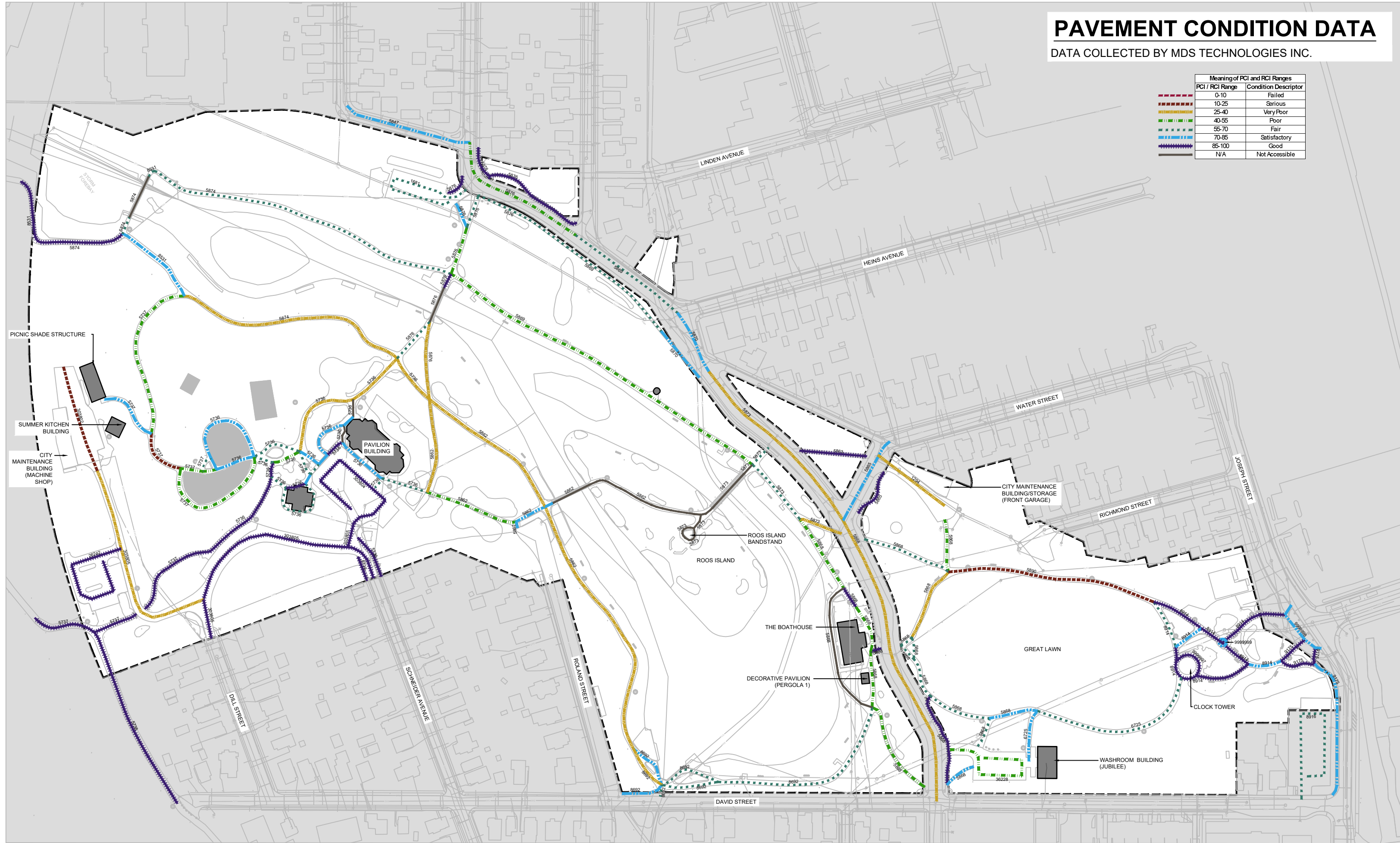
## Pavement Assessment



# PAVEMENT CONDITION DATA

DATA COLLECTED BY MDS TECHNOLOGIES INC.

| Meaning of PCI and RCI Ranges |                      |  |
|-------------------------------|----------------------|--|
| PCI / RCI Range               | Condition Descriptor |  |
| 0-10                          | Failed               |  |
| 10-25                         | Serious              |  |
| 25-40                         | Very Poor            |  |
| 40-55                         | Poor                 |  |
| 55-70                         | Fair                 |  |
| 70-85                         | Satisfactory         |  |
| 85-100                        | Good                 |  |
| N/A                           | Not Accessible       |  |



# Appendix F

## Irrigation Plan





# VICTORIA PARK COMMONS IRRIGATION

DATA COLLECTED FROM CITY OF KITCHENER AS-BUILT FILES



- 1" (25mm) 100 PSI POLYETHYLENE PIPE W/ 14 GAUGE TRACER WIRE
- 1.5" (38mm) MAIN SDR-26 (CLASS 160) PVC PIPE W/ 14 GAUGE TRACER WIRE
- 2.0" (50mm) MAIN SDR-26 (CLASS 160) PVC PIPE W/ 14 GAUGE TRACER WIRE
- RAIN BIRD 8005 W/C ROTOR #16 NOZZLE
- RAIN BIRD 8005 H/C ROTOR #16 NOZZLE
- RAIN BIRD 8005 F/C ROTOR #16 NOZZLE
- RAIN BIRD 1812-PRS-15H SPRINKLER
- RAIN BIRD 1812-PRS-12H SPRINKLER
- RAIN BIRD 150-PGA ELECTRIC VALVE
- RAIN BIRD 100-DVF ELECTRIC VALVE
- RAIN BIRD AXM80111, 2" BRASS TEE FLOW SENSOR
- RAIN BIRD 5RC QUICK COUPLER
- ISOLATION VALVE (SIZED TO PIPE)
- 4" (100mm) SLEEVING SDR-26 (CLASS 160) PVC PIPE
- 2" (50mm) SLEEVING SDR-26 (CLASS 160) PVC PIPE
- 2" (50mm) WATER SOURCE POINT OF CONNECTION
- 2" (50mm) BACK FLOW PREVENTER
- RAIN BIRD ESP-24 LMEF CONTROLLER W/IQ 2.0 CENTRAL CONTROL, GRPS COMMUNICATION AND FLOW MODULE
- BOOSTER PUMP TO BOOST PRESSURE TO 80 PSI
- L.S. APPROXIMATE LOCATION OF EXISTING LIGHT STANDARDS



# Appendix G

## SUE Investigation





## SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVEL B INVESTIGATION

PROJECT #WO 62332 (Victoria Park)

Subsurface Utility Engineering Report

Prepared For:

AECOM Canada Ltd.

| Rev No. | Date           | Description              | Prepared By | Reviewed by        |
|---------|----------------|--------------------------|-------------|--------------------|
| 01      | Sept. 11, 2024 | Issued for Client Review | AD          | Allan Dabu, P.Eng. |



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Utility Locating



Subsurface Utility Engineering



Concrete Scanning



CCTV Sewer Inspection



Vacuum Excavation



Geophysics

## 1. INTRODUCTION

### 1.1 BACKGROUND

AECOM Canada Ltd. Contacted multiVIEW locates to complete a Subsurface Utility Engineering (SUE) Quality Level D, C and B investigation. The proposed project area is located near Victoria Park, Kitchener ON.

multiVIEW will complete existing utility records search (SUE QL-D), survey of surface appurtenances that indicate the presence of underground utilities (SUE QL-C), using Electromagnetic pipe and cable locating systems and accessories, multiVIEW will locate and mark all toneable underground utility mains and services for electrical, gas, communications and water within the project area (SUE QL-B).

multiVIEW will employ differential GPS system or manual surveying, survey the spatial position of field markings where site conditions allow.

The QL-B scope for Victoria Park is limited to the following defined areas as per the Figure 1-1-1



Figure 1-1-1: ROW Limits Plan Highlighted in Purple

Figure 1-1-1: Aerial View of the Project Area for Victoria Park, City of Kitchener, ON



## 1.2 DEFINITIONS

|                    |                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ticket             | The notification that multiVIEW sends to the utility owner to inform of any conflict and to prompt the utility owner to provide their record data and as built data of their existing utilities in the project limits.                                                                                                                                            |
| Right-Of-Way (ROW) | Right-Of-Way refers to subsurface land or property acquired for or intended to be occupied by either a street crosswalk, railroad electric transmission line, oil or gas pipeline, water main sanitary, or storm sewer main, shade trees and/or other special private and public utility facilities.                                                              |
| Locate/ Locating   | In this scope of work, Locate, refers to leveraging the surface geophysical methods to interpret the presence of a subsurface utility and to mark its approximate horizontal position (designation) on the ground surface. The process of exposing and recording the precise vertical and horizontal location of a utility is not included in this scope of work. |
| Utility            | A privately, publicly, or cooperatively-owned line, facility, or system for producing, transmitting, or distributing communications, cable television, power, electricity, light, heat, gas, oil, crude products, water, steam, waste, or any other similar commodity, including any fire or police signal system or street lighting system.                      |

## 1.3 ABBREVIATIONS

|           |                                        |      |                                |
|-----------|----------------------------------------|------|--------------------------------|
| ASCE      | American Society of Civil Engineers    | QL-A | Quality Level A                |
| Ave       | Avenue                                 | QL-B | Quality Level B                |
| BOC       | Bottom of Chamber                      | QL-C | Quality Level C                |
| CB        | Catch Basin                            | QL-D | Quality Level D                |
| CAD       | Computer Aided Design                  | ROW  | Right-of-Way                   |
| CATV      | Cable Television                       | SUE  | Subsurface Utility Engineering |
| CCTV      | Closed Circuit Television              | SAN  | Sanitary                       |
| CI        | Construction Institute                 | St   | Street                         |
| CSE       | Confined Space Entry                   | STM  | Storm                          |
| EM        | Electromagnetic                        | T/G  | Top of Grate Elevation         |
| EOI       | End of Surface Geophysical Information |      |                                |
| EORI      | End of Record Information              |      |                                |
| GPR       | Ground Penetrating Radar               |      |                                |
| GPS       | Global Positioning System              |      |                                |
| INV       | Invert                                 |      |                                |
| MH        | Maintenance Hole (Man Hole)            |      |                                |
| Multiview | multiVIEW Locates Inc.                 |      |                                |
| N/A       | Not Applicable                         |      |                                |
| OBV       | Obvert                                 |      |                                |

## 1.4 REFERENCES

| Ref # | Document #                           | Document Title                                                                          | Revision date |
|-------|--------------------------------------|-----------------------------------------------------------------------------------------|---------------|
| 1     | CI/ASCE 38-02                        | Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data | 2006          |
| 2     | Proposal Project # MLI-QO-20105_rev2 | Estimate for SUE Consulting Services for AECOM Canada Ltd.                              | April, 2024   |

## 2. EXECUTIVE SUMMARY

multiVIEW Locates Inc. has performed the SUE investigation; fieldwork Quality level B (QL-B) and completed the desktop investigation for the project area: Victoria Park, City of Kitchener. ON, that is defined in the map and scope of work, shown in Figure 2-1 or Figures 3-1, 3-2, 3-3 & 3-4.

Through a combination of record data analysis, mobilization of personnel and equipment, field verification and professional judgement, this SUE investigation helped to identify and confirm the location of the below ground utilities infrastructure and appurtenances as defined in CI/ASCE 38-02, within the work area and project limits.

The consolidation of the above-mentioned information and investigation results have been integrated into the SUE QL-B Composite CAD Drawing, attached in Appendix -A.

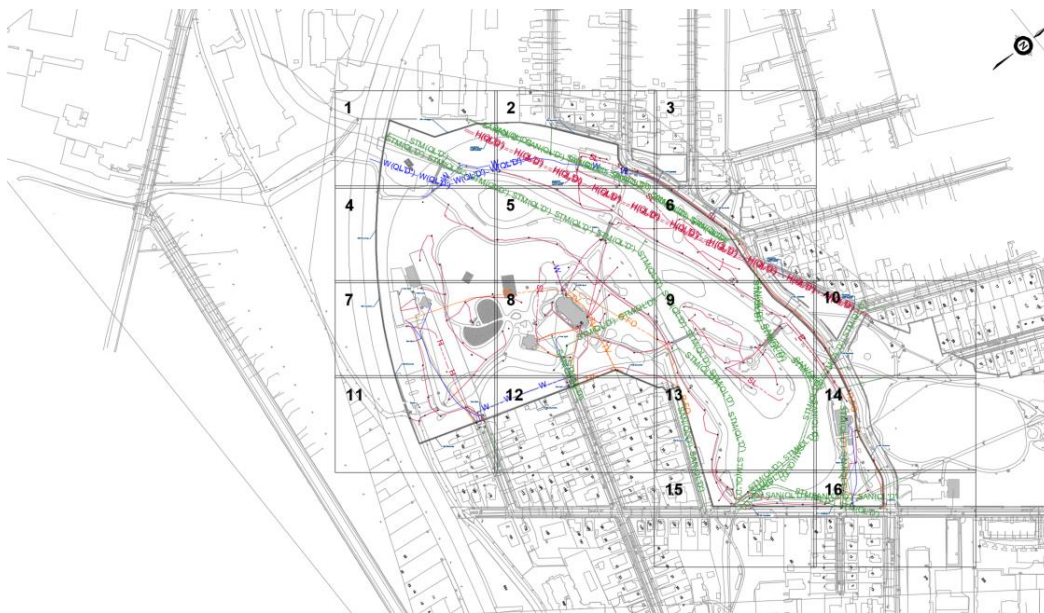


Figure 2-1: Key Map from the Composite SUE QL-B Drawing (Attached in Appendix A)

The present report and attached composite drawing will support the detailed design of the project (e.g. utility relocation plans), allow more accurate cost estimation, minimize risks, and support any prioritization of utility conflicts.



### 3. OBJECTIVE, SCOPE OF WORK & PROJECT LIMITS

This Subsurface Utility Engineering Investigation has as an objective to identify the location of below ground utilities infrastructure and appurtenances, as defined in CI/ASCE 38-02, Ref [1] and as per Contract, Ref [2].

Project includes the investigation area as per Figure 3-1, Figure 3-2, Figure 3-3 and Figure 3-4.

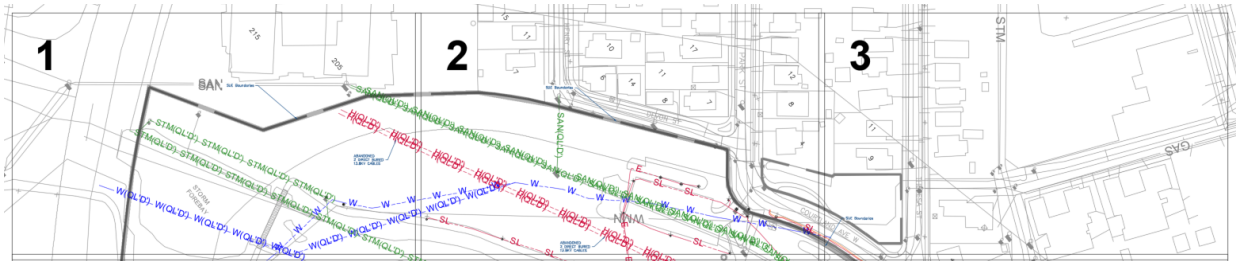


Figure 3-1: Sketch Map of the SUE Investigation Area

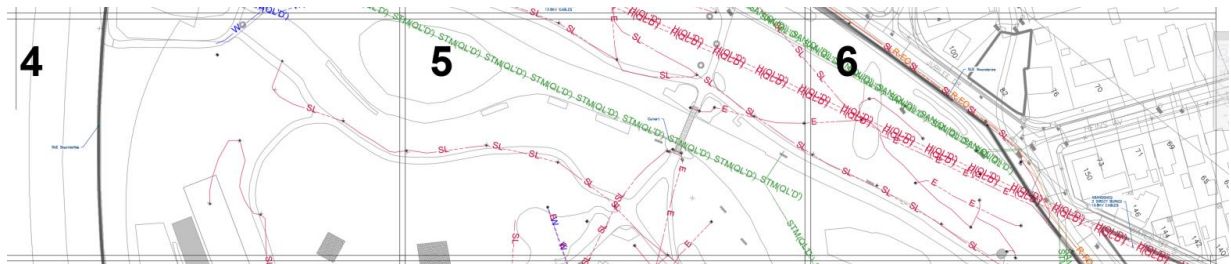


Figure 3-2: Sketch Map of the SUE Investigation Area

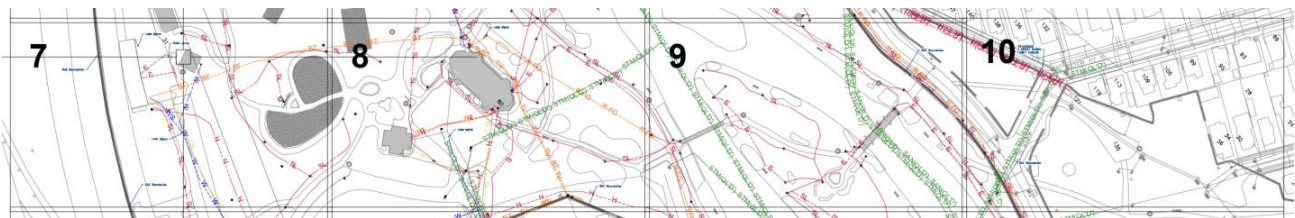


Figure 3-3: Sketch Map of the SUE Investigation Area



**Figure 3-4: Sketch Map of the SUE Investigation Area**

The project limits defined as follows and shown in Figure 3-1, Figure 3-2, Figure 3-3 and Figure 3-4.

The scope of work includes the following:

- Using Electromagnetic pipe and cable locating systems and accessories, multiVIEW will locate and mark all toneable underground utility mains: electrical, gas, communications and water within the project area.
- Using differential GPS system, survey the spatial position of field markings where site conditions allow.

AECOM Canada Ltd. provided multiVIEW with a Topo CAD drawing. This AutoCAD drawing was used as a base map. Details of the investigation are outlined in the subsequent Sections.

## 4. PROVIDED RECORD DATA AND VALIDITY

multiVIEW raised tickets for all the possible utility owners, then obtained and reviewed all existing utility information and records. These utility owners include mainly the following:

- City of Kitchener
- Ontario One Call
- Hydro One
- Enova
- Bell, Rogers, Telus, Zayo and other Allstream Telecommunications
- Enbridge Pipelines Gas Inc.

A detailed list of contacted utilities owners and their contact details was provided in Appendix B.

Utility owners typically mention a validity period of six months from issuance of the provided information, which is attached to the record data.

Enbridge Gas Inc. provides typically the following guideline related to their plant for third party:

- Third Party Requirements in The Vicinity of Natural Gas Facilities

Copy of this guideline was not provided by the Utility Owner.

## 5. SUE INVESTIGATION METHODOLOGY

The SUE investigation was performed according to the CI/ASCE 38-02 Standard, Ref [1]. This investigation included data collection, depiction, data analysis, site visits and inspections.

A SUE investigation involves the collection of utility data through four (4) Quality Levels, or activities, as per Figure 5-1 below. Comparing and analyzing data makes it possible to achieve a complete and accurate composite data set for making informed decisions within a project or impact area.

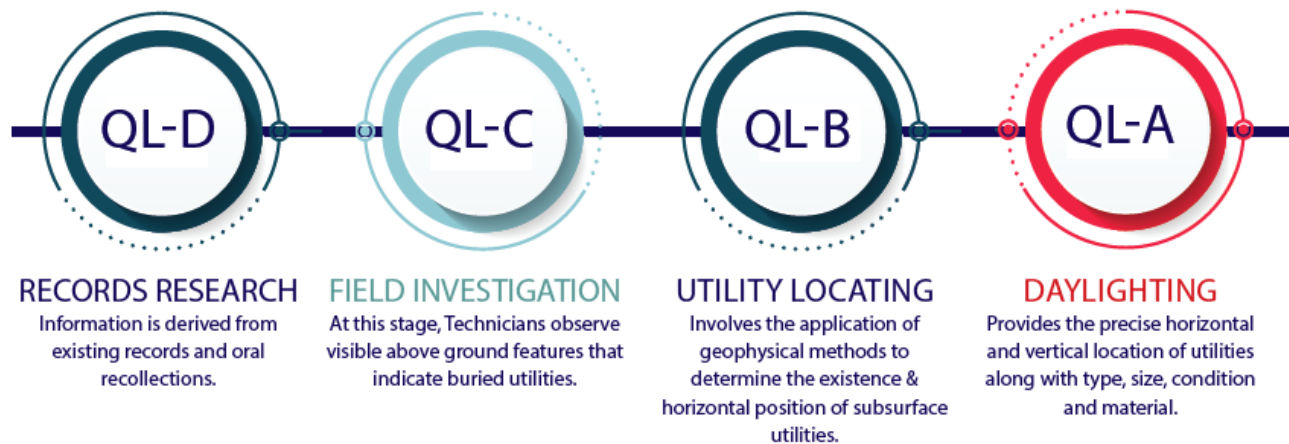


Figure 5-1: Quality Levels for SUE Investigation

In this study, the first three SUE Quality Levels; QL-D, QL-C and QL-B have been requested and performed accordingly.

**Quality Level D (QL-D):** Information derived from existing records or oral recollections.

**Quality Level C (QL-C):** Information obtained by surveying and plotting visible above-ground utility features and Using professional judgment to correlate this information to Quality Level D information.

**Quality Level B (QL-B):** Involves the application of surface geophysical methods to determine the existence and horizontal position of subsurface utilities within a project's limits. Non-destructive technologies including Ground Penetrating Radar (GPR) and Electromagnetic (EM) tools are leveraged at this stage to accurately detect conductive and non-conductive underground assets. Quality Level B information is correlated with Quality Levels C & D to provide a comprehensive subsurface utility dataset that includes abandoned lines and other discrepancies, while confirming the accuracy of record data.



**Quality Level A (QL-A):** Also known as daylighting, provides the precise horizontal and vertical location of utilities along with type, size, condition and material, obtained by the actual exposure (or verification of previously exposed and surveyed utilities) usually through vacuum excavation.

For this project, multiVIEW's QL-B investigation entailed the following activities:

- Mobilize a crew of trained technicians equipped with Electromagnetic (EM) utility locating devices to complete the utility mapping exercise, and determine the existence and approximate horizontal position of toneable buried plant within the project site. The devices can accurately locate the position of steel pipes and cables (conductive), but cannot locate non-metallic utilities such as plastic pipes, drain tiles, concrete sewers or vitreous clay pipe where tracer wires are unavailable (non-conductive).
- The team then marked the inferred utility positions (conductive and non-conductive)
- The team surveyed all subsurface markings and surface features
- Records from the City for Watermain, SAN sewer and STM sewer were obtained and analyzed to locate the existing water, sanitary and storm mains.

## 6. EQUIPMENT FOR SITE INVESTIGATION

Electromagnetic (EM) Induction tools (RD4000 PL Radio-detection type), otherwise known as pipe and cable locating, were leveraged to carry out the Quality Level B component of the SUE program and accurately locating buried infrastructure utilities.

This technique is extremely effective for locating utilities comprised of electrically conductive material or those that contain an intact tracer wire.

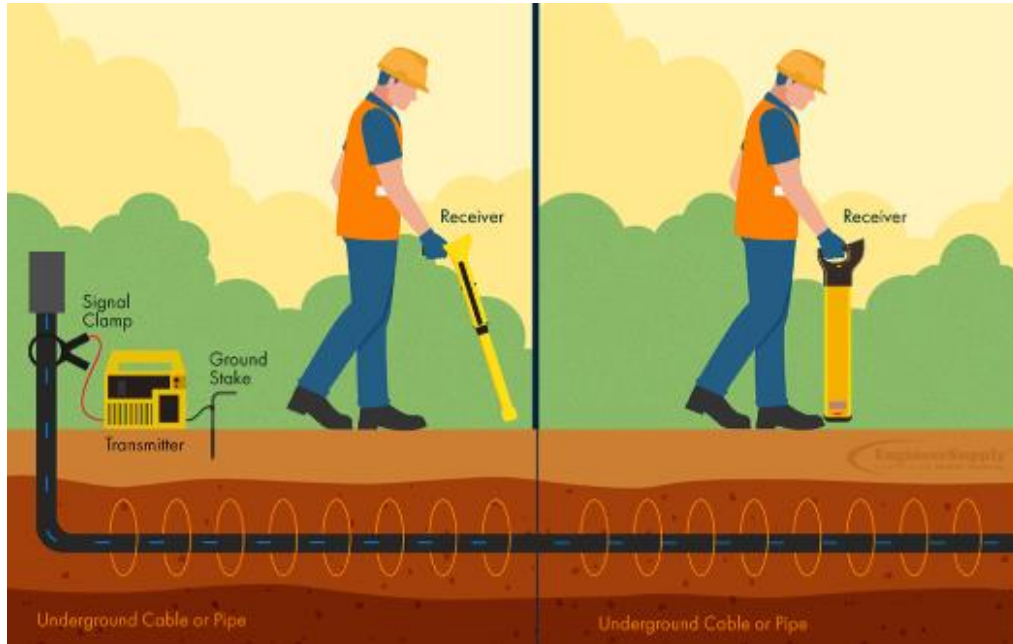


Figure 6-1: Electromagnetic (EM) Induction Process (Pipe and cable Locating)

The following two main detection principles have been applied:

- Passive location – Used to locate an electromagnetic field already present on a utility
- Active location – Used as a signal transmitter to add a specific signal onto a located utility

Low frequency long wave radio signals transmitted from a radio mast pass into the ground, inducing a signal onto metallic utilities. The utilities re-emit these signals and are located and traced using a cable locator in RADIO mode.

When an alternating current (AC) travels along a cable, an electromagnetic field is generated. The alternating current creates a magnetic field and the oscillation of the current between positive and negative creates a frequency known as Hertz (Hz). The electromagnetic field generated by an AC current can be detected by a cable locator.

## 7. RESULTS OF THE SUE SITE INVESTIGATION

A number of QL-C and QL-B job site investigations have been performed using equipment outlined in Section 6 to collect and depict data within the project area during the month of August 2024.

The site investigation was performed based on the record data and visible features. The updated and detailed position of the utilities was confirmed and the lines were designated in the project area and then represented in the composite CAD Drawing, (WO62332-SUE-Victoria Park Kitchener) in Appendix A, in which was displayed with the most accurate possible estimate of its actual location.

These utilities include:

- Enbridge Gas lines Gas main
- Water main
- Bell
- Hydro cable (H)
- Traffic Light (TL)
- Street Light (SL)
- TV Cable
- Rogers FO

## 8. SUE INVESTIGATION CHALLENGES AND CONSIDERATIONS

A number of challenges were encountered in the project on site, which can explain some of the missing information, lost signals and some missing details. These challenges and some considerations can be summarized as the following:

- Non-tuneable sections of Water, electrical and communications lines
- Traffic and Street Light (SL) utility lines depiction was based on the site investigation only. No records have been collected.
- Overhead utilities are excluded from the scope of this SUE composite drawing.
- No records of service lines were available nor collected. All the depicted service lines included in this composite drawing.



## APPENDIX A: SUE QL-B- PROJECT AREA COMPOSITE CAD DRAWINGS



## APPENDIX B: UTILITY OWNER CONTACT LIST AND RECORD VALIDITY

| Utility         | Contact Details Information                                                                 | Date for Requested Info | Date of Info Received | Type of Data received | Remarks                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|---------------------------------------------------------------------------------------------------------------|
| Bell Canada     | N/A                                                                                         | N/A                     | N/A                   | N/A                   | Bell does not process "design and planning" request                                                           |
| Enbridge Gas    |                                                                                             | 2024-07-22              | 2024-07-23            | Email/pdf             | No Enbridge (Legacy Union Gas) facilities in requested area                                                   |
| Enova           | Ricardo Ruiz<br>ricardo.ruiz@enovapower.com                                                 | 2024-07-22              | 2024-07-30            | pdf                   |                                                                                                               |
| Beanfield       | Dipen Shah<br>Design Technician<br>Direct phone. 416.583.2096<br>email. dipen@beanfield.com | 2024-07-22              | 2024-07-26            |                       | Beanfield is not present Kitchener municipality and beanfield has no conflict in your requested area of work. |
| Telecon<br>(GT) | Athulya Manikandan                                                                          | 2024-07-22              | 2024-08-01            |                       | GT has no plant within 2m of proposed work-                                                                   |
| Hydro One       | TPUCC Markup - Hydro One.<br>tpumarkup@hydroone.com                                         | 2024-07-22              | 2024-07-29            |                       | Hydro One does not owns nor operates underground high voltage transmission facilities in the Project area     |

| Utility                 | Contact Details Information                                 | Date for Requested Info | Date of Info Received | Type of Data received | Remarks                                                                                  |
|-------------------------|-------------------------------------------------------------|-------------------------|-----------------------|-----------------------|------------------------------------------------------------------------------------------|
| Water & Sewer           | City of Kitchener                                           | 2024-07-22              | 2024-08-07            | pdf                   |                                                                                          |
| OOO<br>Ontario One Call | Solutions@on1call.com                                       | 2024-07-22              | 2024-07-22            | email                 |                                                                                          |
| Rogers                  | Itishree Samantaray,<br>Rogers.MOC@telecon.ca               | 2024-07-22              | 2024-07-30            | CAD Drawings          |                                                                                          |
| Zayo                    | Phil Arbeau<br>Utility Circulations<br>phil.arbeau@zayo.com | 2024-07-22              | 2024-08-24            | pdf                   | Out of locate area                                                                       |
| Telus                   | Meghna Patel<br>Engineering.Requests@telus.com              | 2024-07-22              | 2021-08-07            | Pdf, .geojson         | Cannot open geojson file                                                                 |
| TNPI                    | Lynn Buehler-Gair                                           | 2024-07-22              | 2024-07-26            | email                 | TNPI has no facilities                                                                   |
| TC Energy               | Aleksandra Frankowski<br>tcenergy@mhbcplan.com              | 2024-07-22              | 2024-07-25            | email                 | TransCanada PipeLines Limited (TCPL) does not have any pipelines crossing the study area |

## **APPENDIX C: THIRD PARTY REQUIREMENTS IN THE VICINITY OF NATURAL GAS FACILITIES**

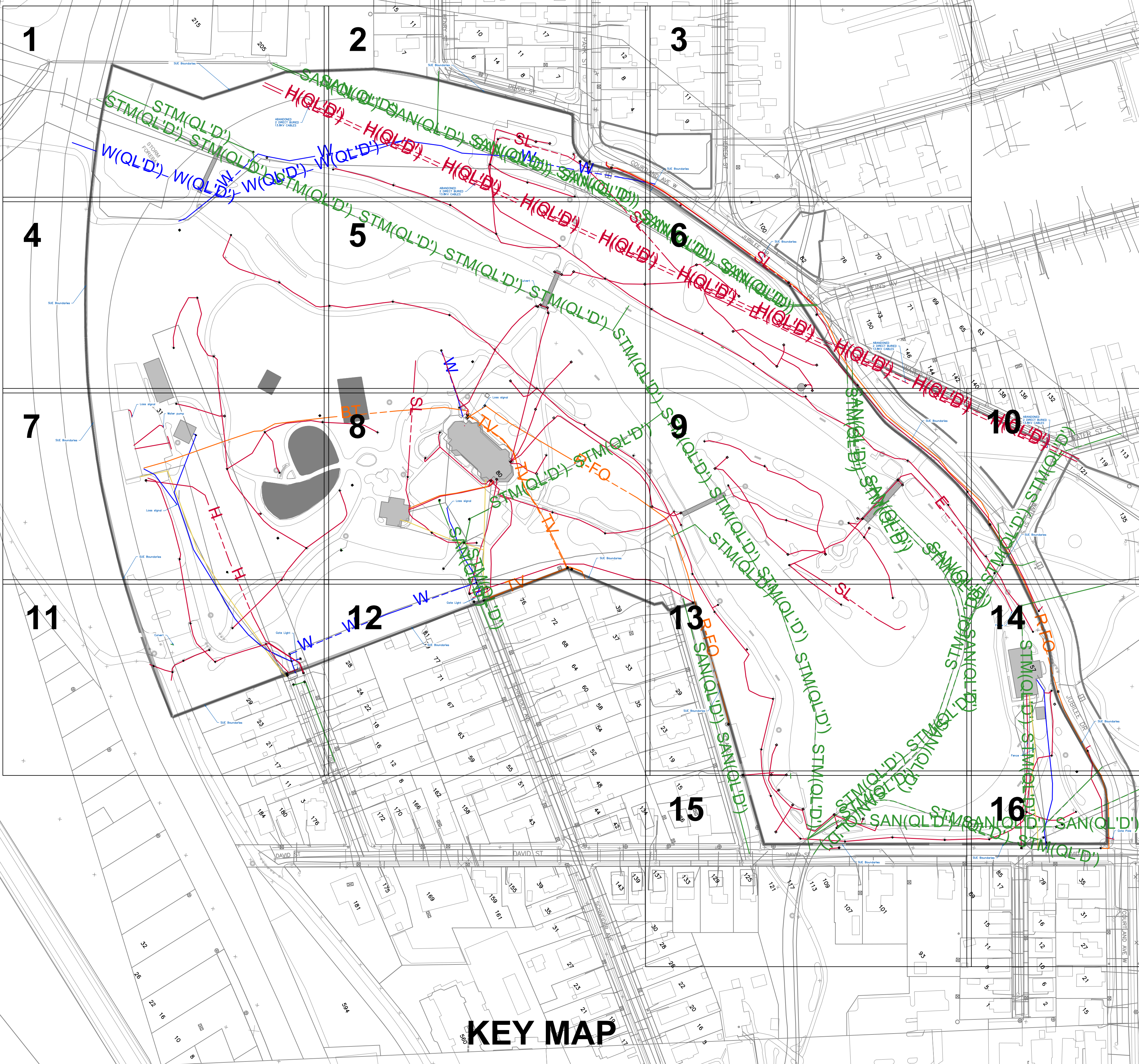
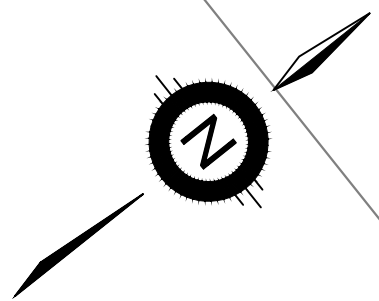
Not Available





**SUE NOTES:**

1. The water and sewers records are old. No update as built drawings were received, and all depicted STM, SAN, and water mains are based on these old records. For this reason, it is highly recommended to perform sounding for the sewers in order to establish and /or confirm connections for mains and laterals.
2. No records of service lines were available nor collected. All the depicted service lines included in this composite drawing are based on the geophysical survey only.
3. All the utility owners could not provide the records for the service lines, they only provided records for the main lines.
4. Any data or information from records or outside of the project boundaries and scope of work is provided for information purposes only and has not been verified.
5. Electrical lines & Street Light Records were not available. All the depicted lines/data are based on the Geophysical Survey performed on site..
6. Bell utility does not process "Design and Planning" requests effective August 15, 2023. the depiction of bell utility is based on geophysical survey only.
7. Please see some SUE Investigation challenges and the Technical limitations on sheet #17



| GLOSSARY |                                                  |
|----------|--------------------------------------------------|
| CSE      | - CONFINED SPACE ENTRY                           |
| SAN      | - SANITARY                                       |
| STM      | - STORM                                          |
| INV      | - INVERT                                         |
| OBV      | - OBVERT                                         |
| BOC      | - BOTTOM OF CHAMBER                              |
| EORI     | - END OF RECORD INFORMATION                      |
| AATUR    | - UTILITY ABANDONED ACCORDING TO UTILITY RECORDS |
| EOI      | - END OF SURFACE GEOPHYSICAL INFORMATION         |
| T/G      | - TOP OF GRATE ELEVATION                         |
| ROW      | - RIGHT OF WAY                                   |
| NPS      | - NOMINAL PIPE SIZE                              |

FOR: AECOM CANADA LTD.

PROJECT NO: WO62332

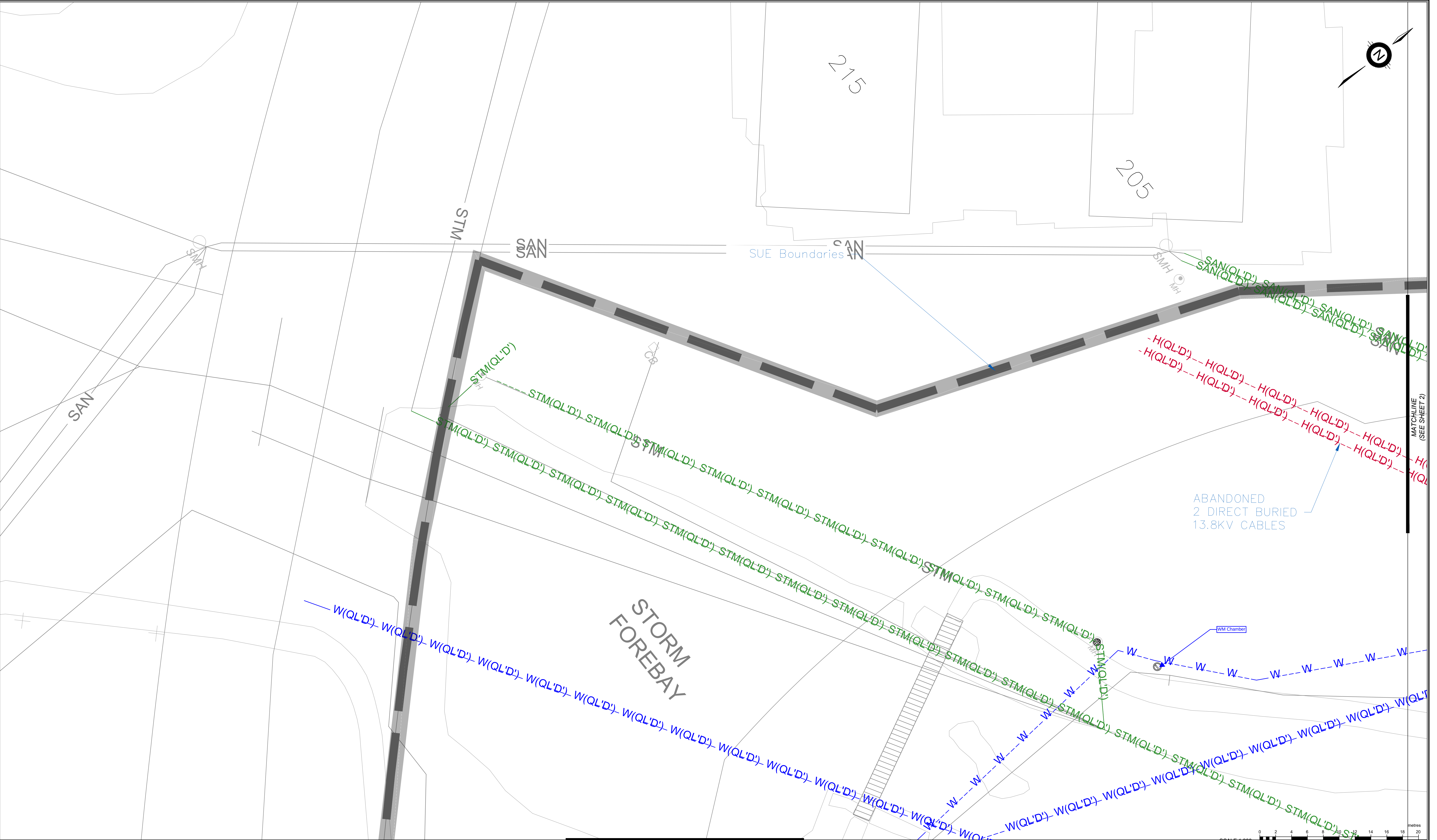
PROJECT NAME: VICTORIA PARK

DATE: 2024-09-10



Tel: 1-800-363-3116  
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| WO 62332     | 2024-09-11 | FZ/AD              | AD       |

For:

AECOM CANADA LTD.

Site:

VICTORIA PARK, KITCHENER, ON

Subsurface Utility Engineering CI/ASCE 38-02 Quality Levels

QL'A': Visual verification of utility location and depth using excavation methods. i.e. Hydrovac.  
QL'B': Utility located using surface geophysical methods i.e. electronically applied or induced magnetic field using specific utility locate equipment or ground penetrating radar.  
QL'C': Utility plotted using record information in conjunction with a visual field survey of utility furniture.  
QL'D': Utility plotted using record information only. This can include oral recollection.

**GENERAL NOTES**

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- Subsurface utility information shown on this drawing was obtained on a best effort, best practices basis, within the technical limitations of the instrumentation. Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE 38-02 Quality Level 'B' methods unless otherwise noted. All other information hereon has been supplied by others and is not certified.
- Third party information provided on these drawings are for the convenience of use but do not constitute information obtained and delivered by multiVIEW Locates Inc. during the course of this project.
- Elevations represented for this study were obtained by multiVIEW Locates Inc. utilizing datum derived by differential GPS observations and referred to the CAN-NET Reference Network.

**SUE UTILITY CODES & LEGEND**

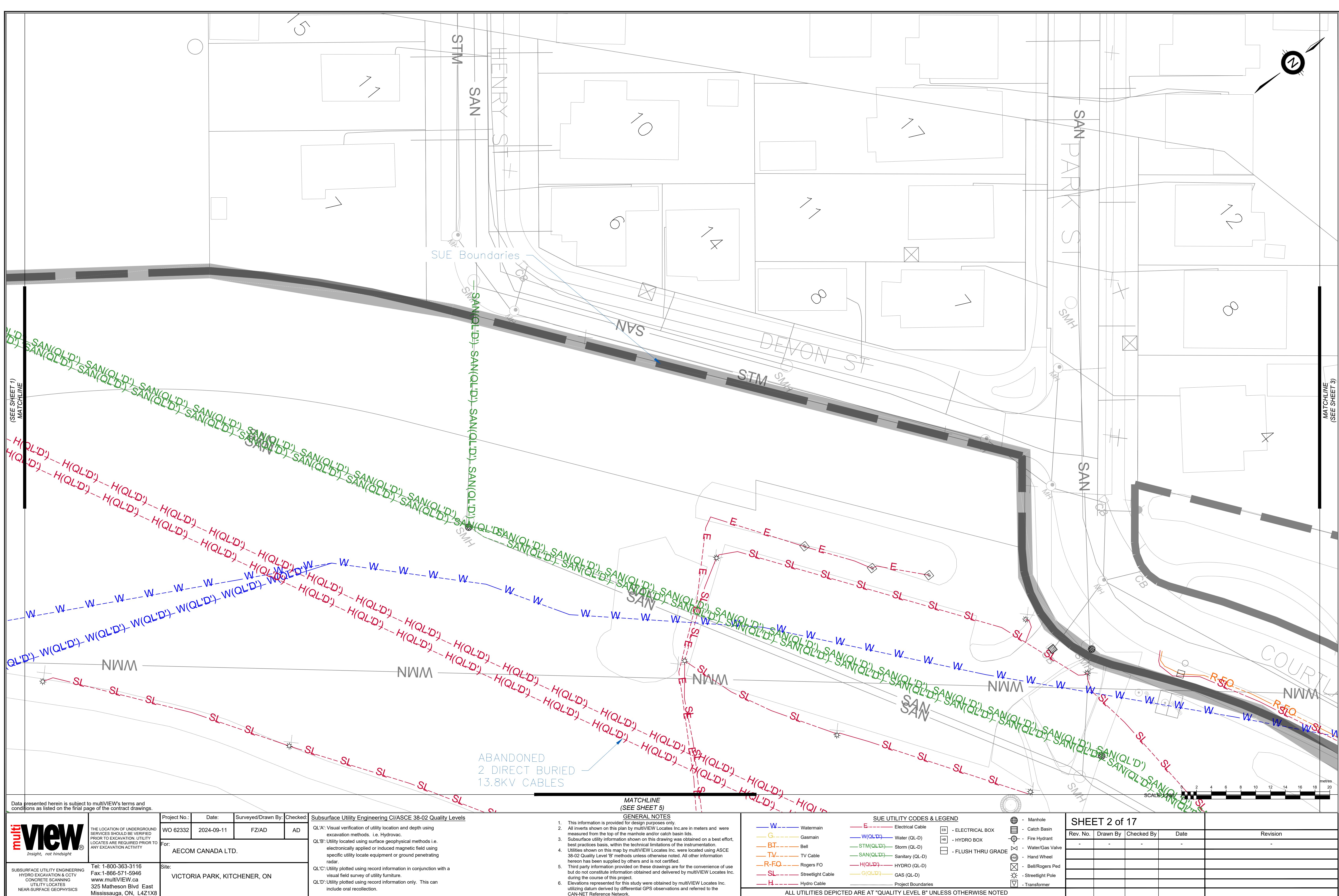
|                                 |                                     |                            |                    |
|---------------------------------|-------------------------------------|----------------------------|--------------------|
| <b>W</b> --- Watermain          | <b>E</b> --- Electrical Cable       | <b>EB</b> - ELECTRICAL BOX | - Manhole          |
| <b>G</b> --- Gasmain            | <b>W(QL'D')</b> - Water (QL-D)      | <b>HB</b> - HYDRO BOX      | - Catch Basin      |
| <b>BT</b> --- Bell              | <b>STM(QL'D')</b> - Storm (QL-D)    | - FLUSH THRU GRADE         | - Fire Hydrant     |
| <b>TV</b> --- TV Cable          | <b>SAN(QL'D')</b> - Sanitary (QL-D) |                            | - Water/Gas Valve  |
| <b>R-FQ</b> --- Rogers FO       | <b>H(QL'D')</b> - HYDRO (QL-D)      |                            | - Hand Wheel       |
| <b>SL</b> --- Streetlight Cable | <b>G(QL'D')</b> - GAS (QL-D)        |                            | - Bell/Rogers Ped  |
| <b>H</b> --- Hydro Cable        |                                     |                            | - Streetlight Pole |
|                                 |                                     |                            | - Transformer      |

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**SHEET 1 of 17**

| Rev. No. | Drawn By | Checked By | Date | Revision |
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| For:<br>AECOM CANADA LTD. |            |                    |          |

Site: VICTORIA PARK, KITCHENER, ON

Subsurface Utility Engineering CI/ASCE 38-02 Quality Levels

QL'A': Visual verification of utility location and depth using excavation methods. i.e. Hydrovac.

QL'B': Utility located using surface geophysical methods i.e. electronically applied or induced magnetic field using specific utility locate equipment or ground penetrating radar.

QL'C': Utility plotted using record information in conjunction with a visual field survey of utility furniture.

QL'D': Utility plotted using record information only. This can include oral recollection.

MATCHLINE  
(SEE SHEET 6)

1. This information is provided for design purposes only.
2. All invents shown on this plan by multiVIEW Locates Inc. are in meters and were measured from the top of the manhole and/or catch basin lids.
3. The surface utility information shown on this plan was obtained on a best effort, best practices basis, within the technical limitations of the instrumentation.
4. Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE Accredited Utility Level II personnel. All other information on this plan, including but not limited to, but not restricted to, all other information hereon has been supplied by others and is not certified.
5. Third party information provided on these drawings are for the convenience of use and are not to be construed as having been obtained and delivered by multiVIEW Locates Inc. during the course of this project.
6. Elevations represented for this work were obtained by multiVIEW Locates Inc. using a real time datum device. Differential GPS observations and referred to the CAN-NET Reference Network.

### SUE UTILITY CODES & LEGEND

|                                                                                       |                     |                                                                                       |                    |
|---------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|--------------------|
|  | Watermain           |  | Electrical Cable   |
|  | Gasmain             |  | Water (QL-D)       |
|  | Bell                |  | Storm (QL-D)       |
|  | TV Cable            |  | Sanitary (QL-D)    |
|  | Rogers FO           |  | HYDRO (QL-D)       |
|  | Streightlight Cable |  | GAS (QL-D)         |
|  | Hydro Cable         |  | Project Boundaries |

 - ELECTRICAL BOX  
 - HYDRO BOX  
 - FLUSH THRU GRADE

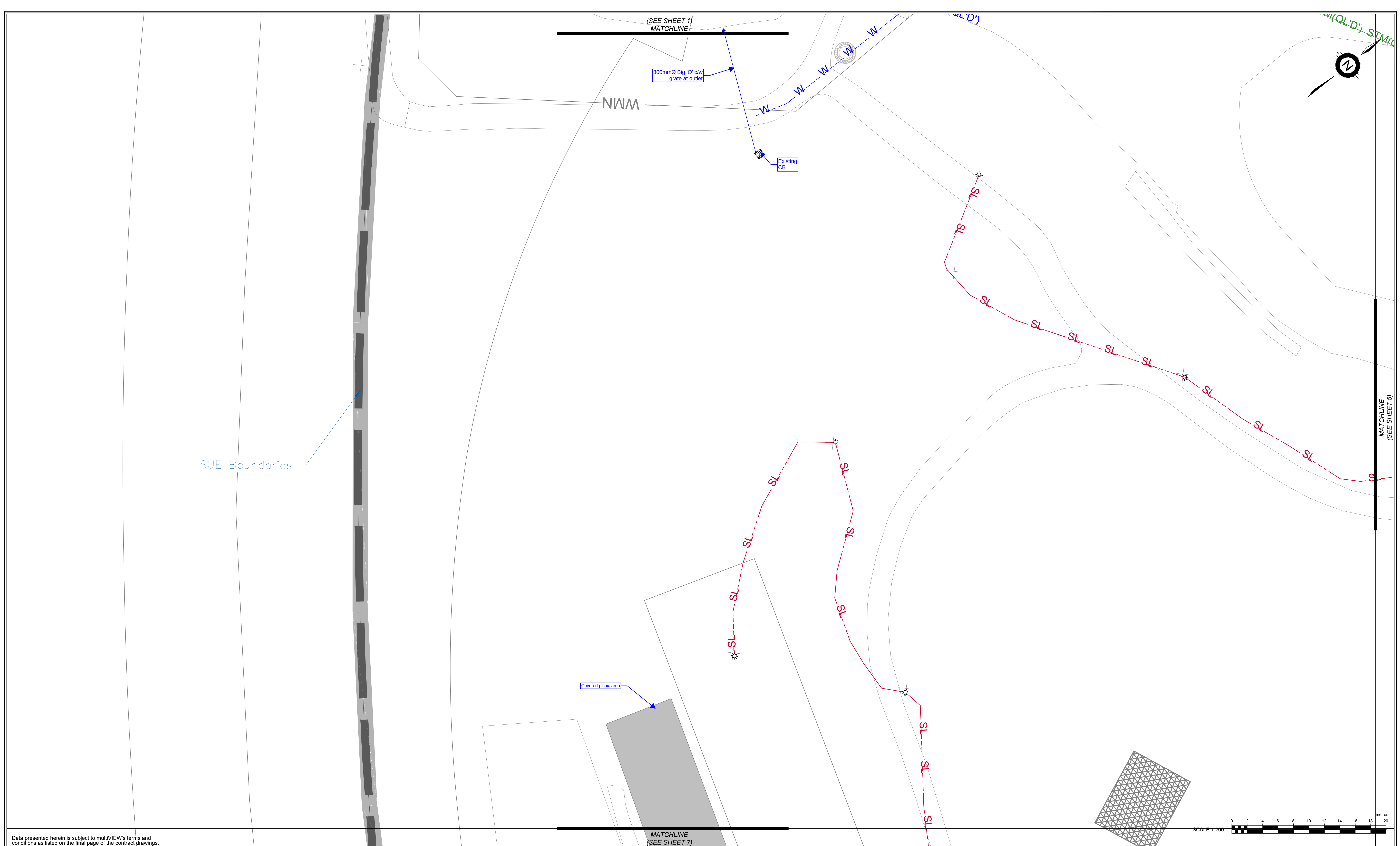
-  - Manhole
-  - Catch Basin
-  - Fire Hydrant
-  - Water/Gas Valve
-  - Hand Wheel
-  - Bell/Rogers Ped
-  - Streetlight Pole
-  - Transformer

SHEET 3 of 17

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| Site:<br>VICTORIA PARK, KITCHENER, ON |            |                    |          |

| Subsurface Utility Engineering C/ASCE 38-02 Quality Levels |                                                                                                                                                                              |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q/LA:                                                      | Visual verification of utility location and depth using excavation methods. i.e. Hydrovac.                                                                                   |
| Q/LB:                                                      | Utility located using surface geophysical methods i.e. electronically applied or induced magnetic field using specific utility locate equipment or ground penetrating radar. |
| Q/LC:                                                      | Utility plotted using record information in conjunction with a visual field survey of utility furniture.                                                                     |
| Q/LD:                                                      | Utility plotted using record information only. This can include oral recollection.                                                                                           |

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3. Subsurface utility information shown on this drawing was obtained on a best effort best practices basis, within the technical limitations of the instrumentation.
4. Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE 38-02 Quality Level "B" methods unless otherwise noted. All other information herein has been supplied by others and is not certified.
5. Third party information provided on these drawings are for the convenience of use but do not constitute information obtained and delivered by multiVIEW Locates Inc. during the course of this project.
6. Elevation represented for this study were obtained by multiVIEW Locates Inc. utilizing data derived from differential GPS observations and referred to the CAN-NET Reference Network.

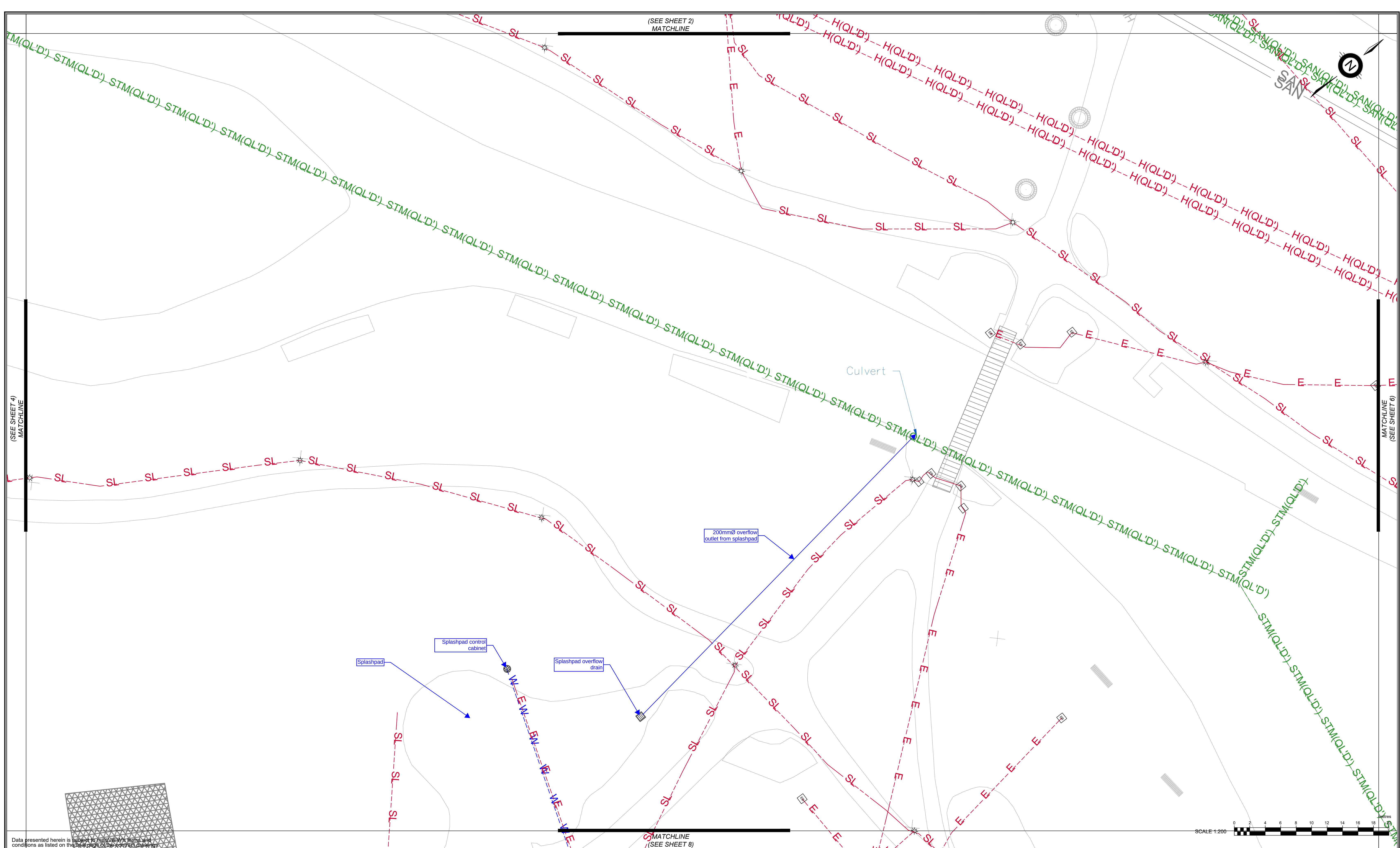
**SUE UTILITY CODES & LEGEND**

|                                                                                                         |                                                                                                        |                                                                                                          |                                                                                                          |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
|  Watermain         |  Electrical Cable |  - ELECTRICAL BOX   |  - Manhole          |
|  Gasmain           |  Water (QL-D)     |  - HYDRO BOX        |  - Catch Basin      |
|  Bell              |  Storm (QL-D)     |                                                                                                          |  - Fire Hydrant     |
|  TV Cable          |  Sanitary (QL-D)  |  - FLUSH THRU GRADE |  - Water/Gas Valve  |
|  Rogers FO         |  HYDRO (QL-D)     |                                                                                                          |  - Hand Wheel       |
|  Streetlight Cable |  GAS (QL-D)       |                                                                                                          |  - Bell/Rogers Ped  |
|  Hydro Cable       |                                                                                                        |                                                                                                          |  - Streetlight Pole |
|                                                                                                         |                                                                                                        |                                                                                                          |  - Transformer      |

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| Site:<br>VICTORIA PARK, KITCHENER, ON |            |                    |          |

Subsurface Utility Engineering CI/ASCE 38-02 Quality Levels

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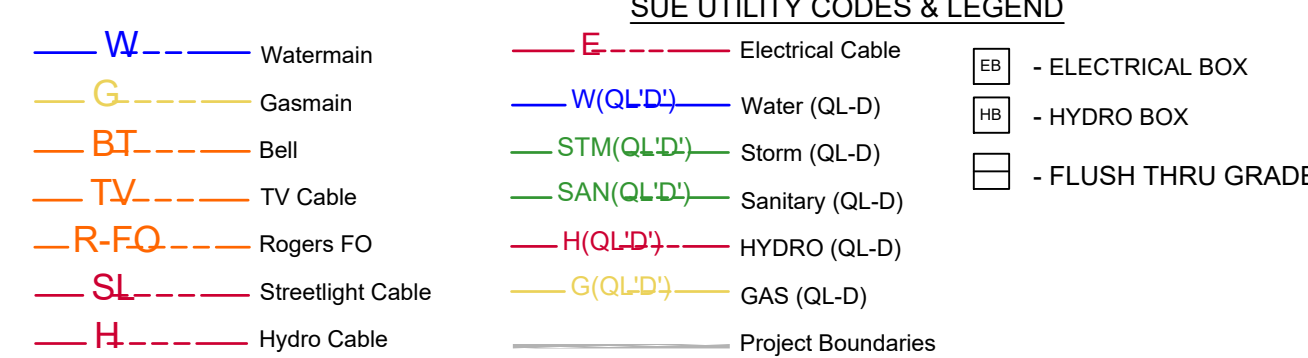
QL'C: Utility plotted using record information in conjunction with a visual field survey of utility furniture.

QL'D: Utility plotted using record information only. This can include oral recollection.

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3. The surface utility information shown on this plan was obtained on a best effort, best practices basis, within the technical limitations of the instrumentation.
4. Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE approved Utility Level 1 procedures in accordance with the standards. All other information herein has been supplied by others and is not certified.
5. Third party information provided on these drawings are for the convenience of use by the client. The information was obtained and delivered by multiVIEW Locates Inc. during the course of this project.
6. Elevations represented on this plan were obtained by multiVIEW Locates Inc. using a total station derived from differential GPS observations and referred to the CAN-NET Reference Network.

### SUE UTILITY CODES & LEGEND

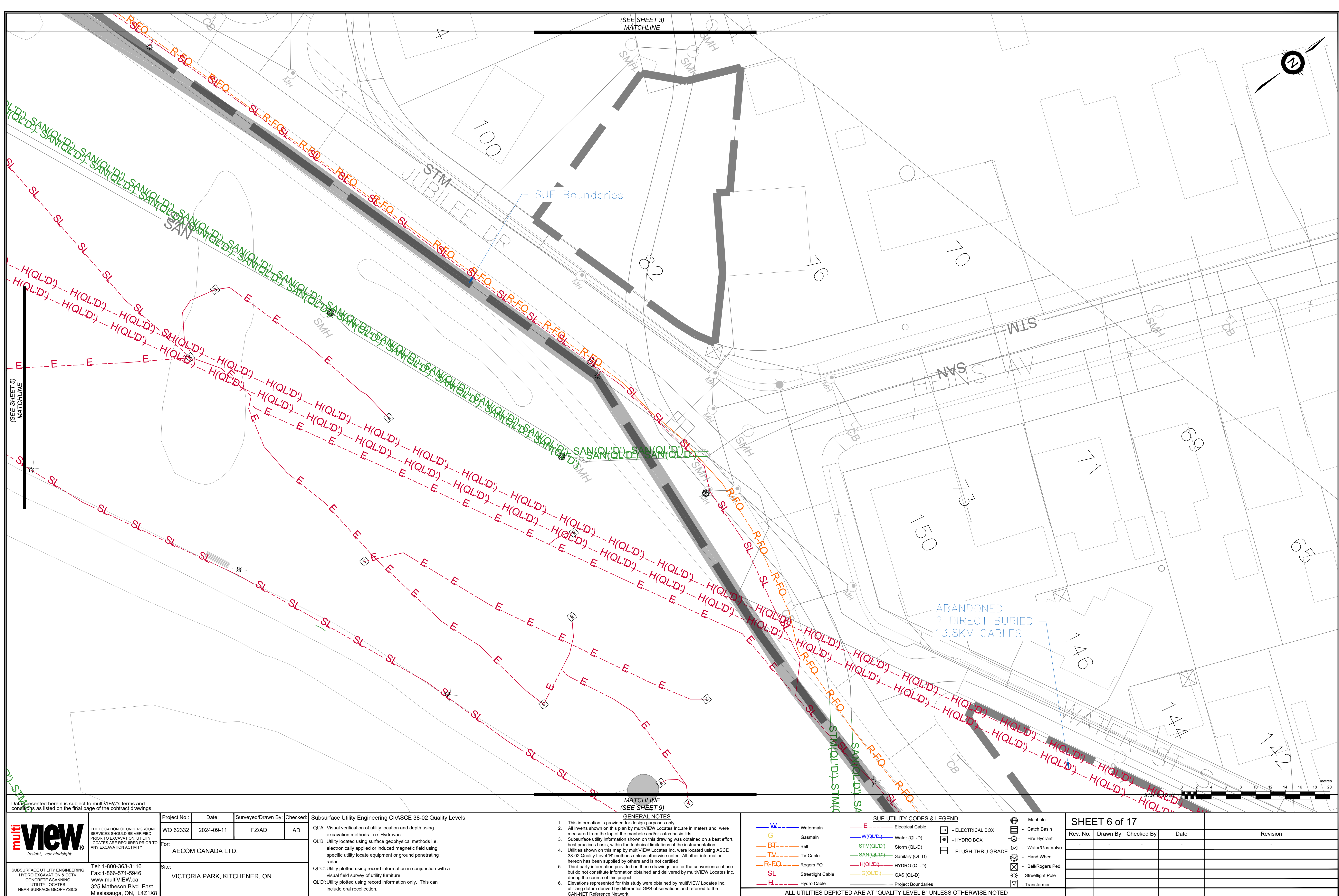


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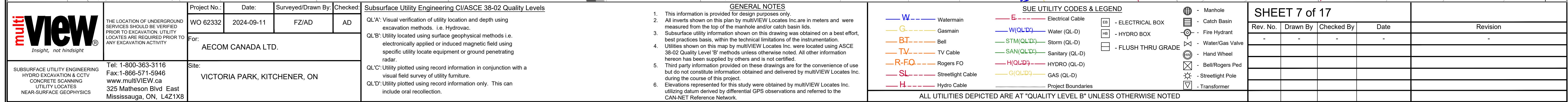


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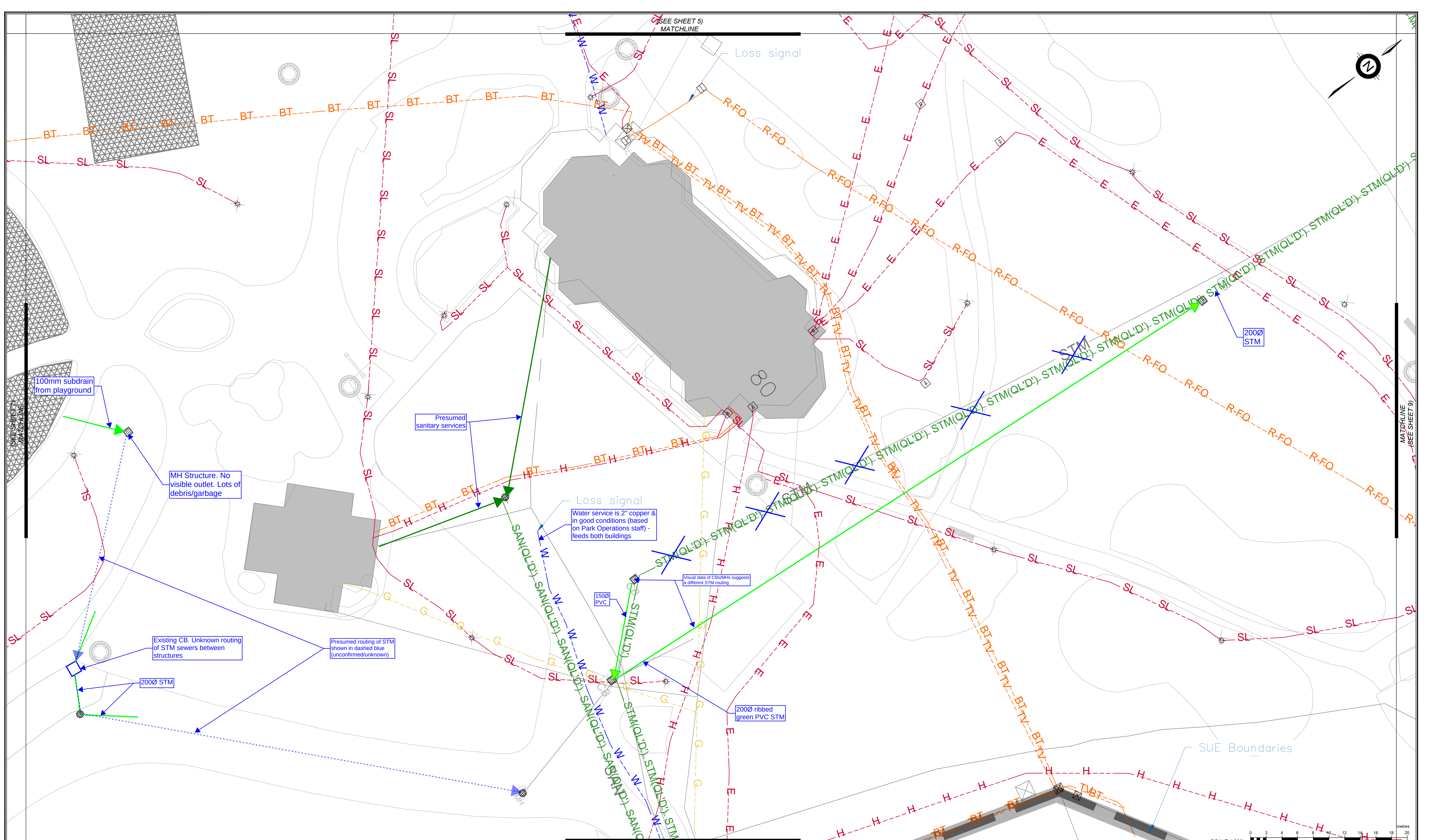














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Project No.:  
WO 62332

Date:  
2024-09-11

Surveyed/Drawn By:  
FZ/AD

Checked:  
AD

For:  
AECOM CANADA LTD.

Site:  
VICTORIA PARK, KITCHENER, ON

Subsurface Utility Engineering C/ASCE 38-02 Quality Levels

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**SUE UTILITY CODES & LEGEND**

|      |                   |           |                  |    |                  |                  |
|------|-------------------|-----------|------------------|----|------------------|------------------|
| W    | Watermain         | E         | Electrical Cable | EB | ELECTRICAL BOX   | Manhole          |
| G    | Gasmain           | W(QL'D)   | Water (QL-D)     | HB | HYDRO BOX        | Catch Basin      |
| BT   | Bell              | STM(QL'D) | Storm (QL-D)     | FT | FLUSH THRU GRADE | Fire Hydrant     |
| TV   | TV Cable          | SAN(QL'D) | Sanitary (QL-D)  | HW | Hand Wheel       | Water/Gas Valve  |
| R-FQ | Rogers FO         | H(QL'D)   | HYDRO (QL-D)     | BR | Bell/Rogers Ped  | Streetlight Pole |
| SL   | Streetlight Cable | G(QL'D)   | GAS (QL-D)       | TR | Transformer      |                  |
| H    | Hydro Cable       |           |                  |    |                  |                  |

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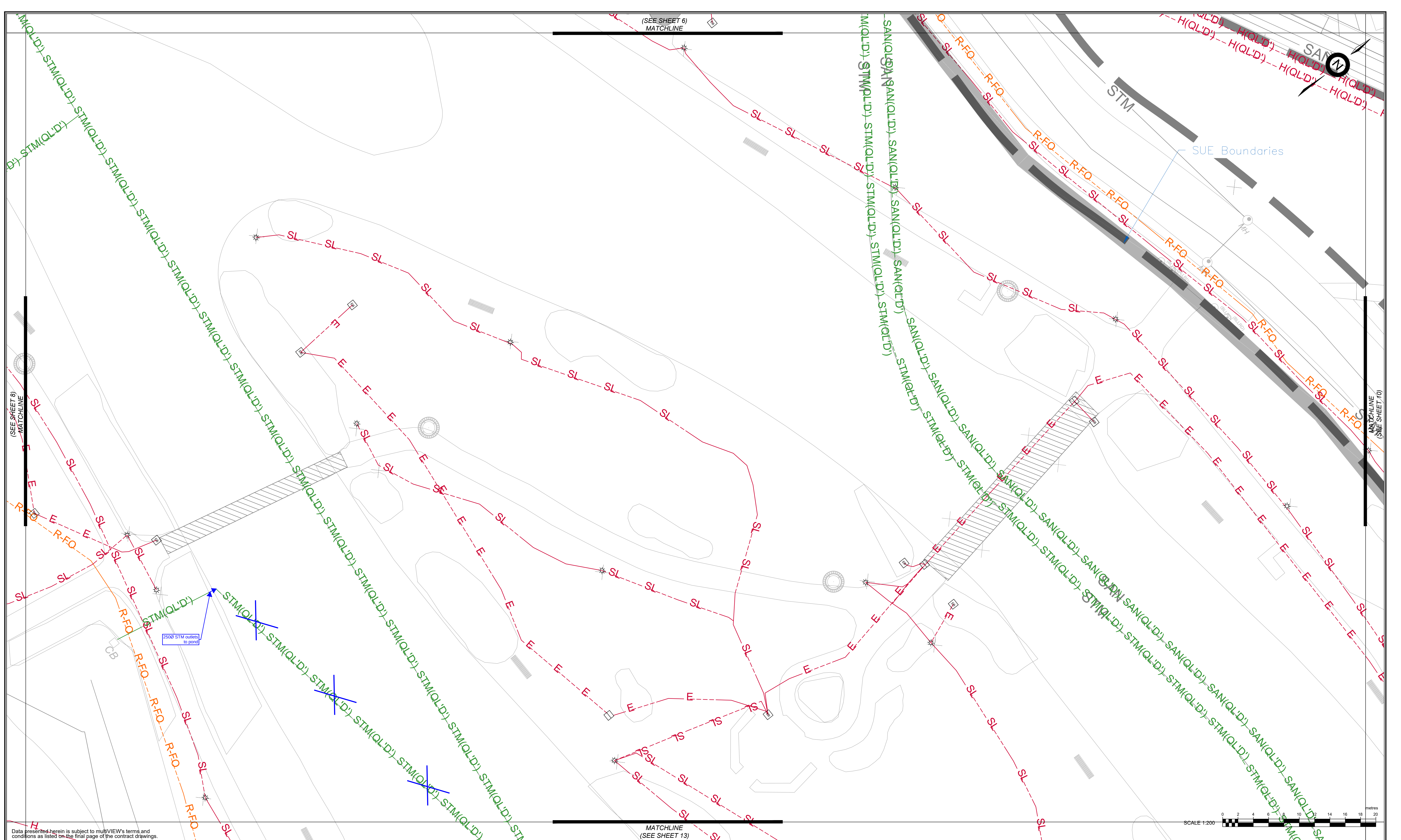
**SHEET 8 of 17**

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SCALE 1:200







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Project No.: WO 62332  
Date: 2024-09-11  
Surveyed/Drawn By: FZ/AD  
Checked: AD

For: AECOM CANADA LTD.

Site: VICTORIA PARK, KITCHENER, ON

Subsurface Utility Engineering CI/ASCE 38-02 Quality Levels

QL'A: Visual verification of utility location and depth using excavation methods. i.e. Hydrovac.

QL'B: Utility located using surface geophysical methods i.e. electronically applied or induced magnetic field using specific utility locate equipment or ground penetrating radar.

QL'C: Utility plotted using record information in conjunction with a visual field survey of utility furniture.

QL'D: Utility plotted using record information only. This can include oral recollection.

GENERAL NOTES

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- Utilities shown on this map by multiVIEW Locates Inc. were located using ASCE 38-02 Quality Level 'B' methods unless otherwise noted. All other information hereon has been supplied by others and is not certified.
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- Elevations represented for this study were obtained by multiVIEW Locates Inc. utilizing datum derived by differential GPS observations and referred to the CAN-NET Reference Network.

W Watermain

G Gasmain

BT Bell

TV TV Cable

R-FQ Rogers FO

SL Streetlight Cable

H Hydro Cable

E Electrical Cable

W(QL'D) Water (QL-D)

STM(QL'D) Storm (QL-D)

SAN(QL'D) Sanitary (QL-D)

H(QL'D) HYDRO (QL-D)

G(QL'D) GAS (QL-D)

EB ELECTRICAL BOX

HB HYDRO BOX

FLUSH THRU GRADE

Manhole

Catch Basin

Fire Hydrant

Water/Gas Valve

Hand Wheel

Bell/Rogers Ped

Streetlight Pole

Transformer

Project Boundaries

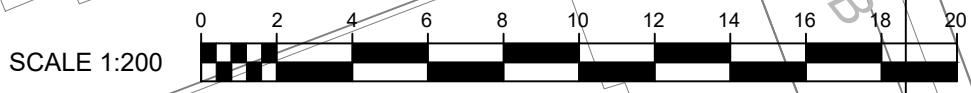
ALL UTILITIES DEPICTED ARE AT "QUALITY LEVEL B" UNLESS OTHERWISE NOTED

| SHEET 9 of 17 |          |            |      |  | Revision |  |
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| Rev. No.      | Drawn By | Checked By | Date |  |          |  |
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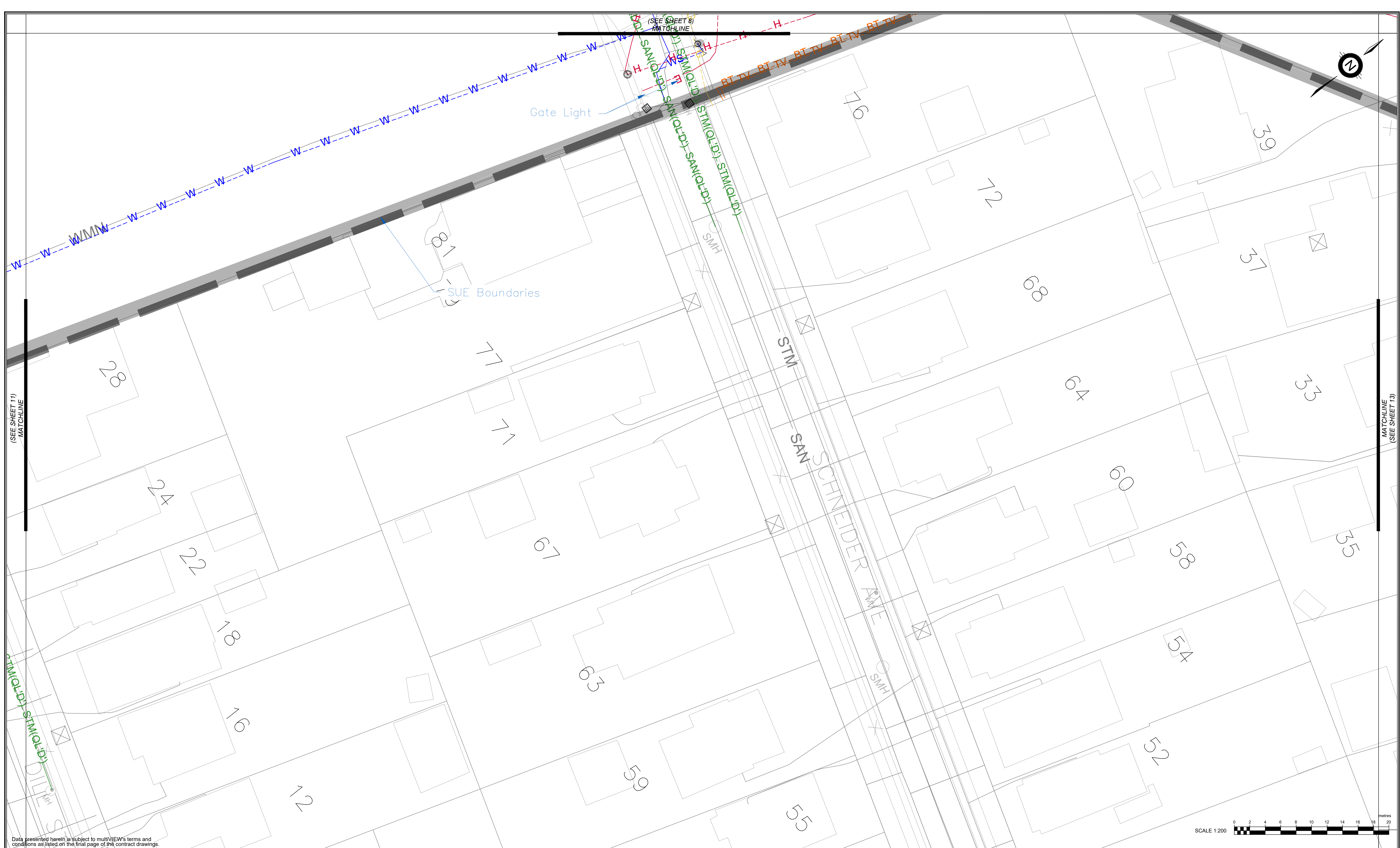






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Data presented herein is subject to multiVIEW's terms and conditions as listed on the final page of the contract drawings.

THE LOCATION OF UNDERGROUND SERVICES SHOULD BE VERIFIED PRIOR TO EXCAVATION. UTILITY LOCATES ARE REQUIRED PRIOR TO ANY EXCAVATION ACTIVITY

Subsurface Utility Engineering  
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325 Matheson Blvd East  
Mississauga, ON, L4Z1X8

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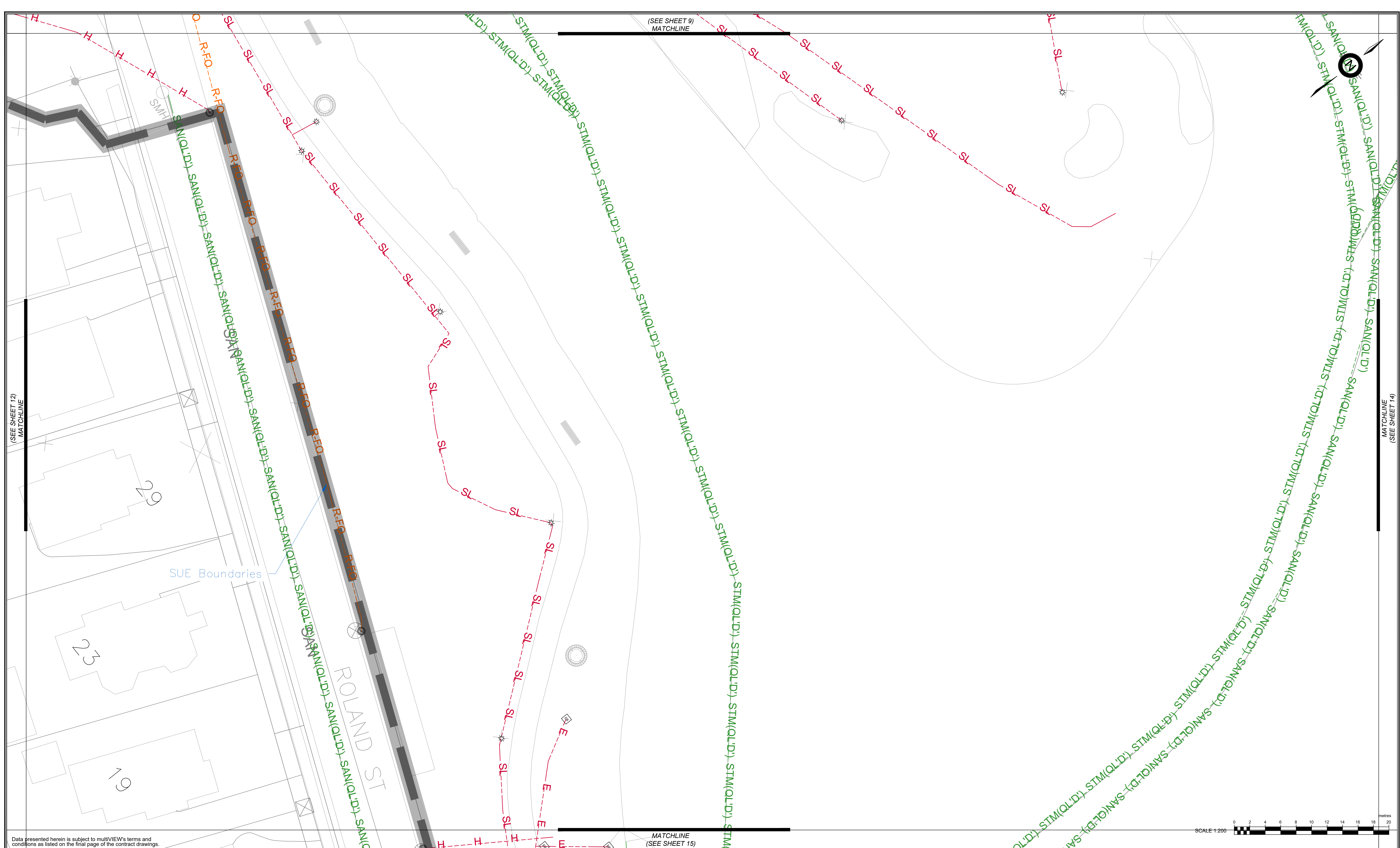
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|                                                                                                                                                                          |                                                                                                                                                                                                    |                                                                          |                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>W --- Watermain</p> <p>G --- Gasmain</p> <p>BT --- Bell</p> <p>TV --- TV Cable</p> <p>R-FQ --- Rogers FO</p> <p>SL --- Streetlight Cable</p> <p>H --- Hydro Cable</p> | <p>E --- Electrical Cable</p> <p>W(QL'D) --- Water (QL-D)</p> <p>STM(QL'D) --- Storm (QL-D)</p> <p>SAN(QL'D) --- Sanitary (QL-D)</p> <p>H(QL'D) --- HYDRO (QL-D)</p> <p>G(QL'D) --- GAS (QL-D)</p> | <p>EB - ELECTRICAL BOX</p> <p>HB - HYDRO BOX</p> <p>FLUSH THRU GRADE</p> | <p>Manhole</p> <p>Catch Basin</p> <p>Fire Hydrant</p> <p>Water/Gas Valve</p> <p>Hand Wheel</p> <p>Bell/Rogers Ped</p> <p>Streetlight Pole</p> <p>Transformer</p> |
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| SHEET 12 of 17 |          |            |      | Revision |  |
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| WO 62332                              | 2024-09-11 | FZ/AD              | AD       |
| For:<br>AECOM CANADA LTD.             |            |                    |          |
| Site:<br>VICTORIA PARK, KITCHENER, ON |            |                    |          |

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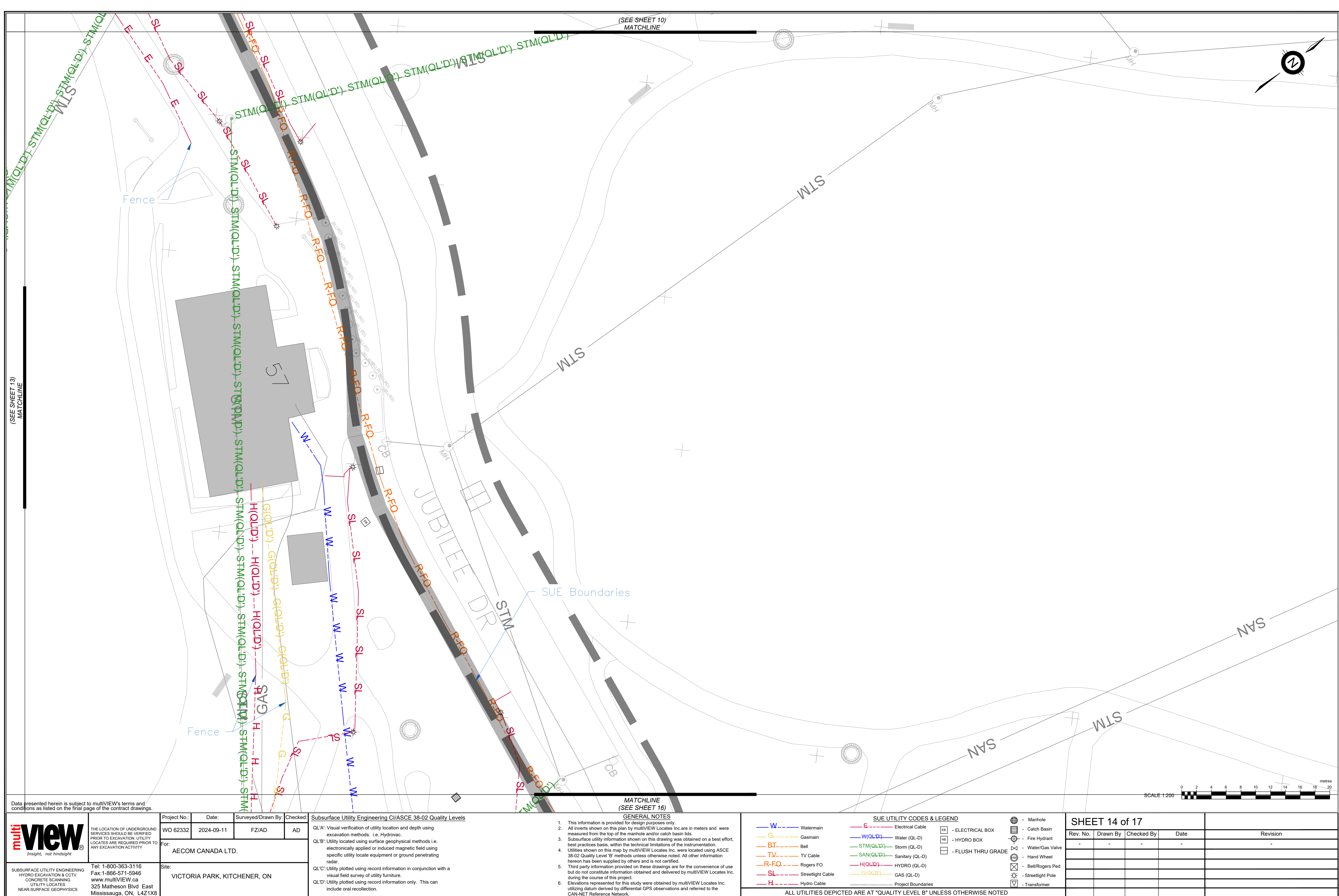
| SUE UTILITY CODES & LEGEND |                               |
|----------------------------|-------------------------------|
| W --- Watermain            | E --- Electrical Cable        |
| G --- Gasmain              | W(QL-D) --- Water (QL-D)      |
| BT --- Bell                | STM(QL-D) --- Storm (QL-D)    |
| TV --- TV Cable            | SAN(QL-D) --- Sanitary (QL-D) |
| R-FQ --- Rogers FO         | H(QL-D) --- HYDRO (QL-D)      |
| SL --- Streetlight Cable   | G(QL-D) --- GAS (QL-D)        |
| H --- Hydro Cable          | Project Boundaries            |

- ELECTRICAL BOX  
 - HYDRO BOX  
 - FLUSH THRU GRADE  
 - Manhole  
 - Catch Basin  
 - Fire Hydrant  
 - Water/Gas Valve  
 - Hand Wheel  
 - Bell/Rogers Ped  
 - Streetlight Pole  
 - Transformer

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| SHEET 13 of 17 |          |            |      |  | Revision |
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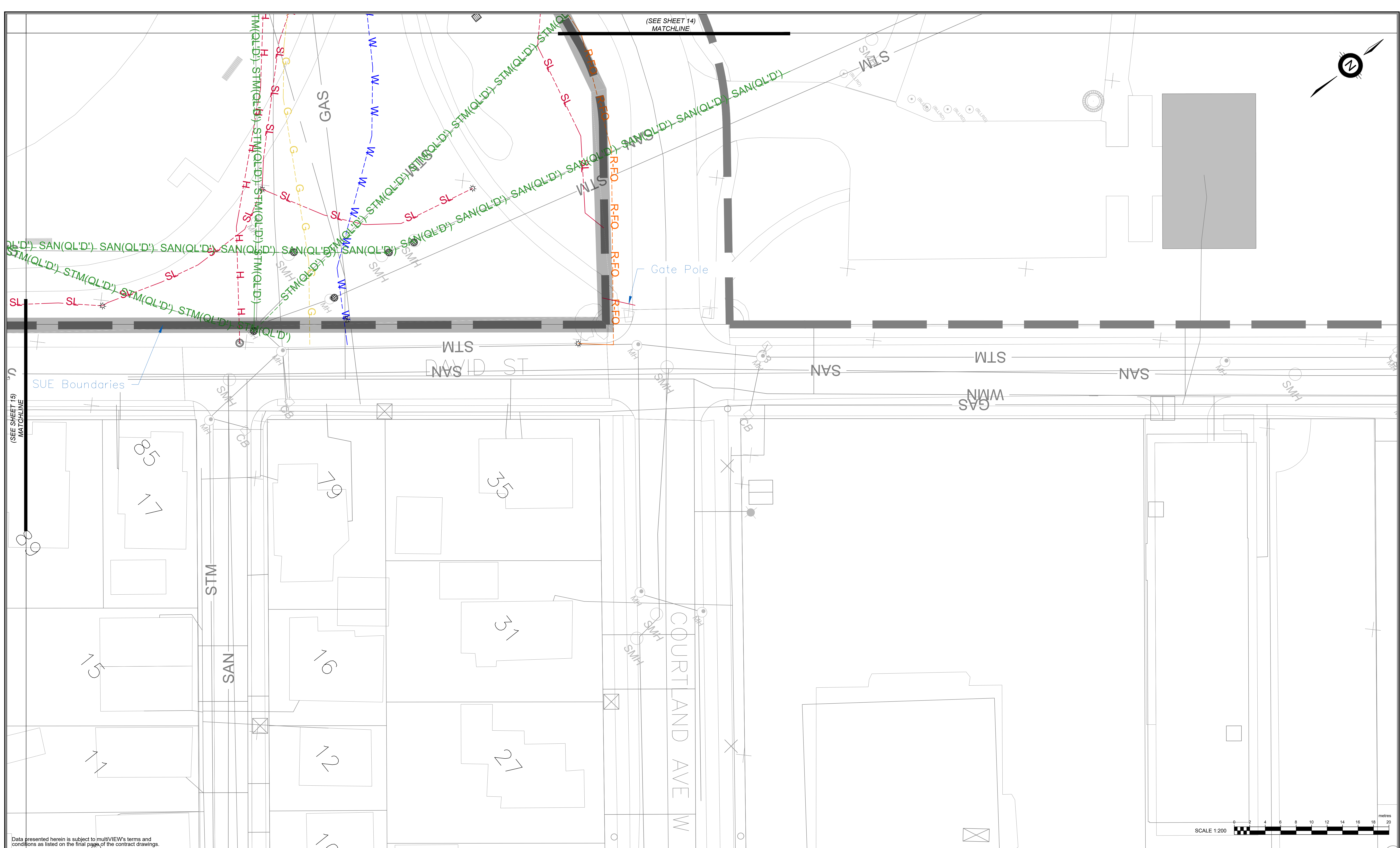












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| SUE UTILITY CODES & LEGEND |                    |
|----------------------------|--------------------|
| Watermain                  | Electrical Cable   |
| Gasmain                    | Water (QL-D)       |
| Bell                       | Storm (QL-D)       |
| TV Cable                   | Sanitary (QL-D)    |
| Rogers FO                  | HYDRO (QL-D)       |
| Streetlight Cable          | GAS (QL-D)         |
| Hydro Cable                | Project Boundaries |
| ELECTRICAL BOX             | Manhole            |
| HYDRO BOX                  | Catch Basin        |
| FLUSH THRU GRADE           | Fire Hydrant       |
|                            | Water/Gas Valve    |
|                            | Hand Wheel         |
|                            | Bell/Rogers Ped    |
|                            | Streetlight Pole   |
|                            | Transformer        |

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Technical Limitations

1. Throughout this schedule, "multiVIEW" is the corporate entity multiVIEW Locates Inc.

2. Pipe, cable, conduit, rebar, post-tension cables, anchors, containers, vaults, tanks and similar objects that are buried under the ground or embedded within a structure are referred to in multiVIEW's terms and conditions as Buried Assets

3. Subsurface conditions such as depth to bedrock, change in soil type, presence of karst, voids, contaminated soil or ground water, residual construction or industrial debris or buried waste are referred to in multiVIEW's terms and conditions as Buried Liabilities.

4. The Client acknowledges that the laws of fundamental physics apply and acknowledge that sensing instruments can not detect all Buried Assets and Buried Liabilities. Buried Assets and Buried Liabilities which are detectable by properly deployed and operated instruments are termed Locatable Buried Assets and Locatable Buried Liabilities. Buried Assets and Buried Liabilities which are not clearly detectable in an unambiguous manner due to the laws of fundamental physics are termed Unlocatable Buried Assets and Unlocatable Buried Liabilities. multiVIEW follows industry best-practice procedures but is not responsible for determining the presence and location of Unlocatable Buried Assets or Unlocatable Buried Liabilities.

5. Instruments to locate Buried Assets use a variety of approaches to detect and infer the location of the Buried Assets. Standard pipe and cable locating instruments detect the magnetic fields associated with electrical current flowing in the Buried Asset. GPR (Ground Penetrating radar) techniques depend on the transmission of radio waves into the host material and detection of waves reflected back from the Buried Assets. Sounding methods require insertion of a source of magnetic field into the pipe or conduit and detection of the magnetic field created by source at the surface of the Work Area to locate the sonde position. For the purposes of this estimate, Locatable Buried Assets are normally characterized as:

a. metallic pipes, cables and conduits that are capable of carrying an electrical current and that can be physically accessed to allow an energizing current source to create an electrical current in the Buried Asset of sufficient magnitude as to be detectable by standard locating instruments;

b. metallic pipes, cables and conduits that actively carry an identifiable electric current that is sufficiently large and has suitable frequency as to be detectable by standard locating instruments;

c. metallic and non-metallic pipes, cables, conduits, rods, bars, wires, voids, and inclusions that represent a substantive electrical contrast to the host material and are embedded in a host material transparent to radio waves such that radio waves reflected from the feature are detectable by a GPR instrument;

d. non-metallic pipes, cables and conduits (i.e. composed of plastic, concrete, asbestos, clay, etc.) which have continuous associated tracer wire capable of carrying an electric current and that can be physically accessed to allow an energizing current source to create an electrical current in the tracer wire of sufficient magnitude as to be detectable by standard cable locating instruments;

e. non-metallic pipes, cables and conduits which have continuous associated tracer wire capable of carrying an electric current and that naturally carries an electrical current of sufficient magnitude and suitable frequency as to be detectable by standard cable locating instruments;

f. open pipe and conduits that can be accessed by a sonde and are sufficiently shallow to permit detectable magnetic fields to be sensed at the surface of the Work Area;

Examples of Unlocatable Buried Assets include, but are not limited to, the following:

g. pipes, cables and conduits whose depth of burial is too great to create and/or overlain by or in proximity to metallic material which results in signal distortion thus preventing physically measurable signals at the surface or where burial material interferes with current generation and signal emissions;

h. normally Locatable Buried Assets situated in, or emerging from, an area which is an Inaccessible Area;

i. normally Locatable Buried Assets with a break or breaks to the electrical continuity of any metallic pipe, cable or tracer wire (i.e. segmented lengths, corroded connections, sections of plastic repair, etc.);

j. non-metallic pipe, cable and conduits which do not have a continuous and/or accessible associated tracer wire;

k. the host material is opaque to radio waves;

l. Buried Assets that are normally characterized as Locatable become Unlocatable when either ambient interfering electromagnetic fields or the material surrounding and/or enclosing and/or above the Buried Asset disrupt the energizing current or the normal operation of the sensing instrument.

6. Instruments used to locate Buried Liabilities use a variety of approaches to detect and infer the location of the Buried Liability. Magnetometers detect the distortion in the local magnetic field induced by the presence of some types of Buried Liabilities. GPR (Ground Penetrating radar) techniques depend on the transmission of radio waves into the host material and detection of waves reflected back from the Buried Liability. In some cases the lack of reflected GPR signal can be a Buried Liability indicator. Electromagnetic induction methods use electromagnetic induction to induce current flow in the subsurface and detect the resulting magnetic fields that are associated with these induced currents to identify Buried Liabilities. Electrical resistivity measurements use direct connect to pass current through host material and map out distortions in the current flow to indicate changes in the subsurface that may indicate the presence of Buried Liabilities. For the purposes of this estimate, Locatable Buried Liabilities are normally characterized as those features that will create a discernable change to the response of the measuring instrument and which differ in character from the background surrounding environment (that is, the features create an Anomalous Response) when industry best practices are followed.

7. The Client acknowledges that the laws of fundamental physics apply and that equipment is subject to measurement distortions that are site specific resulting in limited precision when determining positional coordinates. multiVIEW will use best-practice procedures but is not responsible for determining the location of Buried Assets or Buried Liabilities to an accuracy better than what is typical of normal locate instruments.

8. Determination of type composition, depth or size of the Buried Assets or Buried Liabilities is not possible and does not constitute part of this service. Identification of the type (i.e. gas, electric, communications, etc) of a specific Buried Asset is not technically possible except by visual surface appurtenance or excavation and visual exposure of the Buried Asset. Inferences that may be drawn by correlation with records and as-built drawings may be offered but such inferences are provided on a best effort basis with no guarantee of correctness.

9. Client acknowledges the critical nature of having access to energize Buried Assets to enable locating and assumes full responsibility for identifying and providing access (including provision of licensed plumbing, electrical or confined space entry personnel if required and which adhere to multiVIEW health and safety procedures) to any and all points necessary for the energization of the Buried Assets. multiVIEW accepts no responsibility for locating any Buried Asset for which access and/or appropriate workplace safety measures are not provided.

10. Individual Locatable Buried Assets are deemed Unlocatable Buried Assets where there are numerous Buried Assets clustered together either vertically and/or horizontally ("Clustered Utilities") making identification of individual elements physically impossible. multiVIEW is not responsible for identifying the individual Buried Assets in such situations.

11. Non-metallic pipe and cable (i.e. fibre-optic systems, etc.) are Unlocatable Buried Assets for standard cable locating instruments unless either an unbroken tracer wire or continuous metallic sheathing surrounding such buried plant is easily accessible from the surface. The Client must provide direct and simple access to every traceable wire or continuous metallic sheathing. Otherwise, multiVIEW accepts neither liability nor responsibility for locating such features since they are deemed Unlocatable

12. Non-metallic pipe and conduits (i.e. plastic, concrete, asbestos, clay, etc.) under pressure (i.e. water, gas, forcemain systems, etc.) are Unlocatable Buried Assets for standard cable locating instruments unless an unbroken tracer wire is attached to the pipe and this tracer wire is easily accessible from the surface. The Client must provide direct and simple access to every traceable wire.

13. Non-pressurized, non-metallic (i.e. plastic, concrete, asbestos, clay, etc.) conduits or pipe (i.e. sewers, drains, empty ducts, etc.) are Unlocatable Buried Assets unless a transmitting sonde can be inserted throughout the full length of the pipe or conduit. It is the responsibility of the Client to identify and provide direct access (including provision of licensed plumbing, electrical or confined space entry personnel if required) to any and all access points for such lines. multiVIEW accepts no responsibility for locating such lines where the Client does not provide access and/or appropriate workplace safety measures.

14. Any Buried Asset incapable of generating a reflected radar wave detectable by a GPR instrument is an Unlocatable Buried Assets.

15. All or part of a Work Area is defined as an Inaccessible Area when inaccessible for surveying Inaccessible Areas include the following: those covered by a structure or object (i.e. buildings, vehicles, debris, stockpiled snow, building materials, etc.); those covered by open water; those covered by woods, vegetation, or snow too thick to permit easy walking; those where the surface terrain slopes steeper than 1:2; those covered by snow; and, those where the safety of the operator is jeopardized (i.e. unstable footing, environmental hazards, uncontrolled roads, etc.). The final decision for defining an area as an Inaccessible Area rests with the multiVIEW Health & Safety Officer.

16. Utility data depicted on QL-D CAD lines are derived via utility owners record data and shown only for reference.
- Liability Limitations
1. Location and mapping services, marks, reports and results provided by multiVIEW cannot substitute as a legally defined Buried Asset location in jurisdiction where government regulation dictates that the Buried Asset owner is solely responsible for identifying and locating their own Buried Assets. In cases where multiVIEW is legally authorized to act on behalf of the Buried Asset owner to locate the owner's Buried Assets, any results provided by multiVIEW will clearly identify that the Buried Asset location is legally authorized on all records, documents, and reports.

2. multiVIEW's markings of Buried Asset or Buried Liability locations are provided as information to be input into the Client's decision making process and the provision of this information does not relieve the Client, or any other person, party, or corporation, from liability for damages for personal injury including death, or for property damage or liability caused to or from any Buried Asset or Buried Liability, within the Work Area.

3. Cables carrying DC voltages and/or small diameter cables (i.e. fire alarm or security systems, remote signal cables, inaccessible tracer wire, perfectly balanced AC cables, etc.) can only be detected by methods which create electrical currents and signals in the cables. Where a sensitive or dangerous connection is involved, the Client must provide qualified personnel to isolate and enable direct access to these systems. The Client is responsible for defining the impact of locating signals on sensitive electronics. multiVIEW accepts no responsibility for any damage to plant, or any third party, caused by locating signals. Technical information about locating signals is available from multiVIEW upon request.

4. multiVIEW is not liable for damages resulting from physical exposure of any Buried Assets or Buried Liability by the Client, its representatives, their sub-contractors or any other person or corporation.

5. multiVIEW will not accept any liability regarding inaccurate estimates of utility depth secured only by electronic means since multiVIEW recommends exposure of any such issues by vacuum excavating if any such depth information is critical to the design, engineering or construction of subsequent infrastructure.

6. multiVIEW accepts no responsibility and is not liable for damages suffered by any third party as a result of decisions or actions based on the performance of the statement of work by multiVIEW.

7. multiVIEW accepts no responsibility and is not liable for conduit blockage, or restoration of the site to pre-survey conditions, as a result of survey practices needed to fulfill the objectives of the Service provided.

8. The completeness of work carried out by multiVIEW is based on information provided by the Client at or prior to the earlier of the time of issuance of this Estimate. If the scope work or size and/or extent of the Work Area changes, a signed Change Order must be issued so that scope of work can be adjusted to address Client requirement changes. Documents and maps provided by multiVIEW are the definitive means legally defining the extent of the Work Area investigated.

9. multiVIEW accepts no responsibility for locating Buried Assets or Buried Liabilities outside the limit of the Work Area or in the Inaccessible Areas.

10. Except as written in this contract, multiVIEW disclaims any and all promises, representations, warranties and covenants, express, implied, statutory or otherwise.

11. multiVIEW shall not be liable for any amount in excess of the fees paid by the Client to multiVIEW for the work described in this estimate on account of any loss, injury, death, or damage whether resulting directly or indirectly to a person or property irrespective of the cause or origin of such loss, injury, death or damage including, without limitation, loss, injury, death or damage attributable to the negligence of multiVIEW, its employees and agents in the performance or non-performance of the Service.

12. In any action, claim, loss or damage arising out of the work for which this estimate is provided, the Client agrees that multiVIEW Locates Inc.'s liability will be 'several' and not 'joint and several' and the Client may only claim payment from multiVIEW Locates Inc of multiVIEW Locates Inc.'s proportionate share of the total liability based on degree of fault. Any action against multiVIEW Locates Inc must be commenced on or before the date which is the earlier of: i) eighteen months from the date on which the work in this estimate is completed and, ii) the date by which an action must be commenced under any applicable legislation other than limitation legislation. In no event shall multiVIEW Locates Inc be liable to the Client whether the claim be in tort, contract or otherwise, for an amount in excess of the fees paid by the Company for the services work provided. In no event shall multiVIEW Locates Inc be liable to the Client, whether a claim be in tort, contract or otherwise for any consequential, indirect, lost profit or similar damages, or failure to realize expected savings. multiVIEW Locates Inc will use all reasonable efforts to complete within any agreed upon timeframe the performance of the services described herein; however, multiVIEW Locates Inc shall not be liable for failures or delays in performance that arise from causes beyond its control, including the untimely performance or non-performance by the Client of its obligations.
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                            |                |          |            |      |   |
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| <div><div><div><div><div><div></div><div>multi</div></div><div><div>view</div><div>®</div></div></div><div><div>Insight, not hindsight</div></div></div><div><div>SUBSURFACE UTILITY ENGINEERING<br/>HYDRO EXCAVATION &amp; CCTV<br/>CONCRETE SCANNING<br/>UTILITY LOCATES<br/>NEAR-SURFACE GEOPHYSICS</div><div>Tel: 1-800-363-3116<br/>Fax: 1-866-571-5946<br/>www.multiVIEW.ca<br/>325 Matheson Blvd East<br/>Mississauga, ON, L4Z1X8</div></div></div></div> | <div><div>Project No.:WO 62332</div><div>Date:2024-09-10</div><div>Surveyed/Drawn By:FZ/AD</div><div>Checked:AD</div></div> <div>For:<div>AECOM CANADA INC.</div></div> <div>Site:<div>VICTORIA PARK, KITCHENER, ON<br/>TERMS &amp; CONDITIONS</div></div> | SHEET 17 of 17 |          |            |      |   |
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