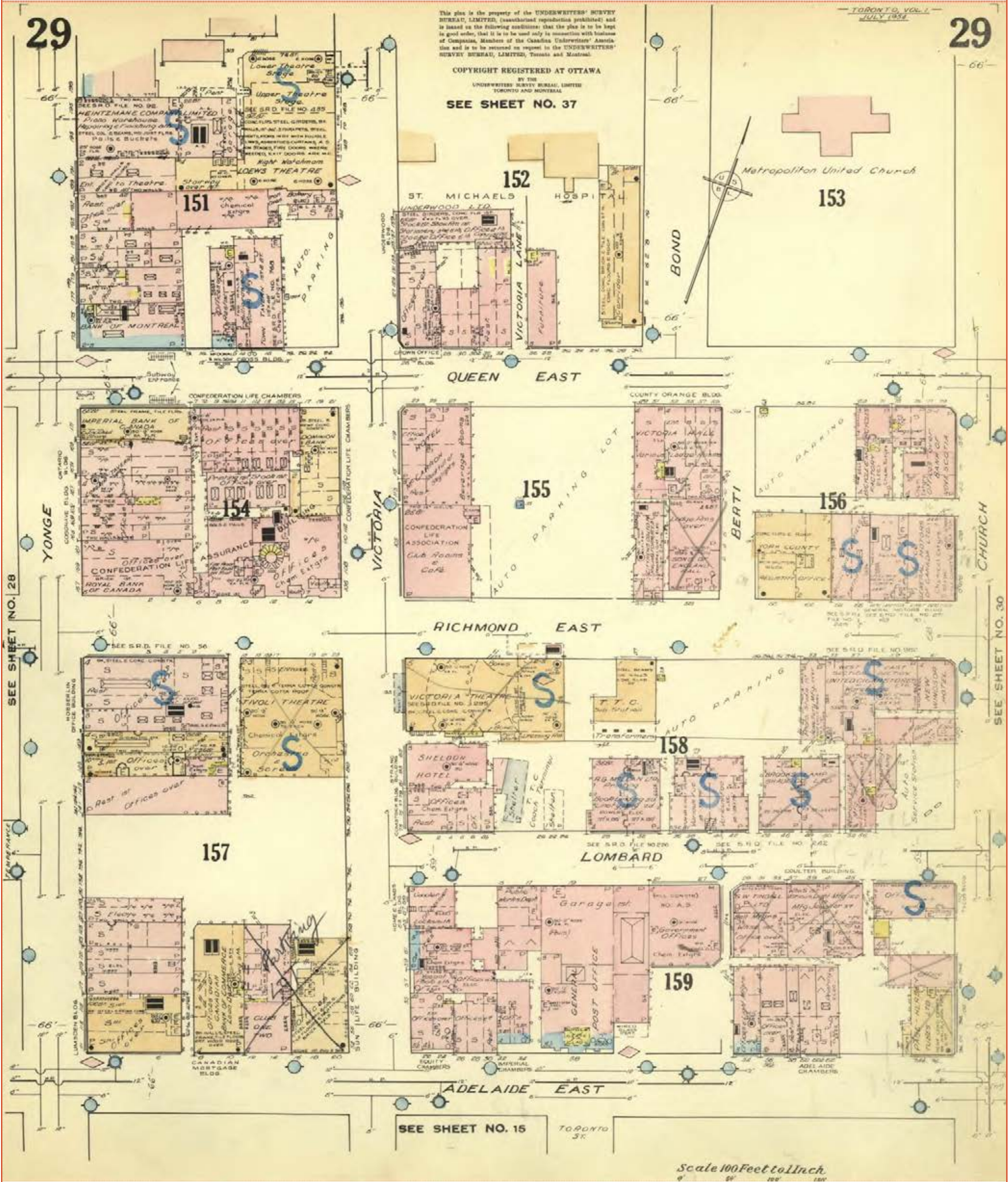
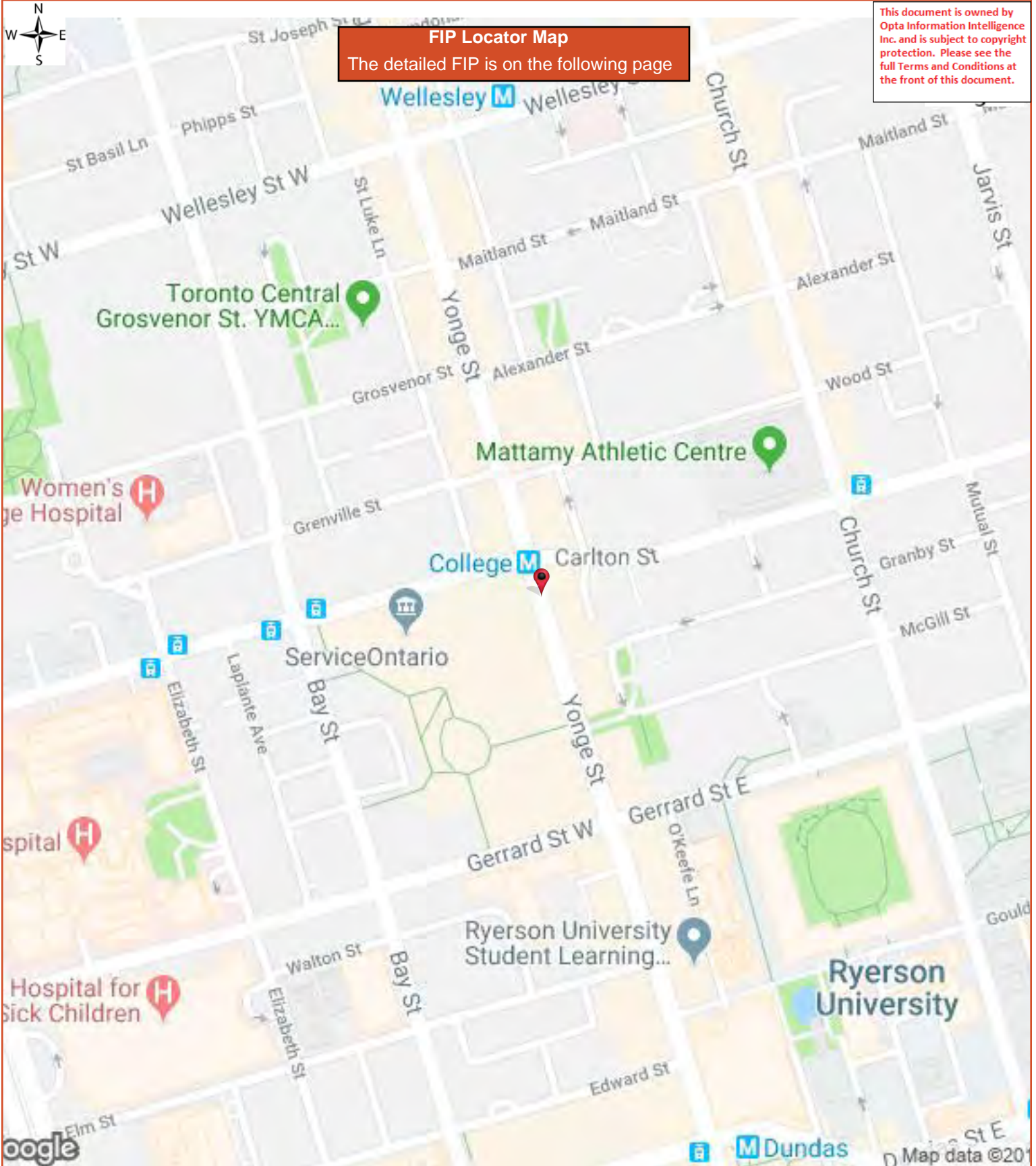


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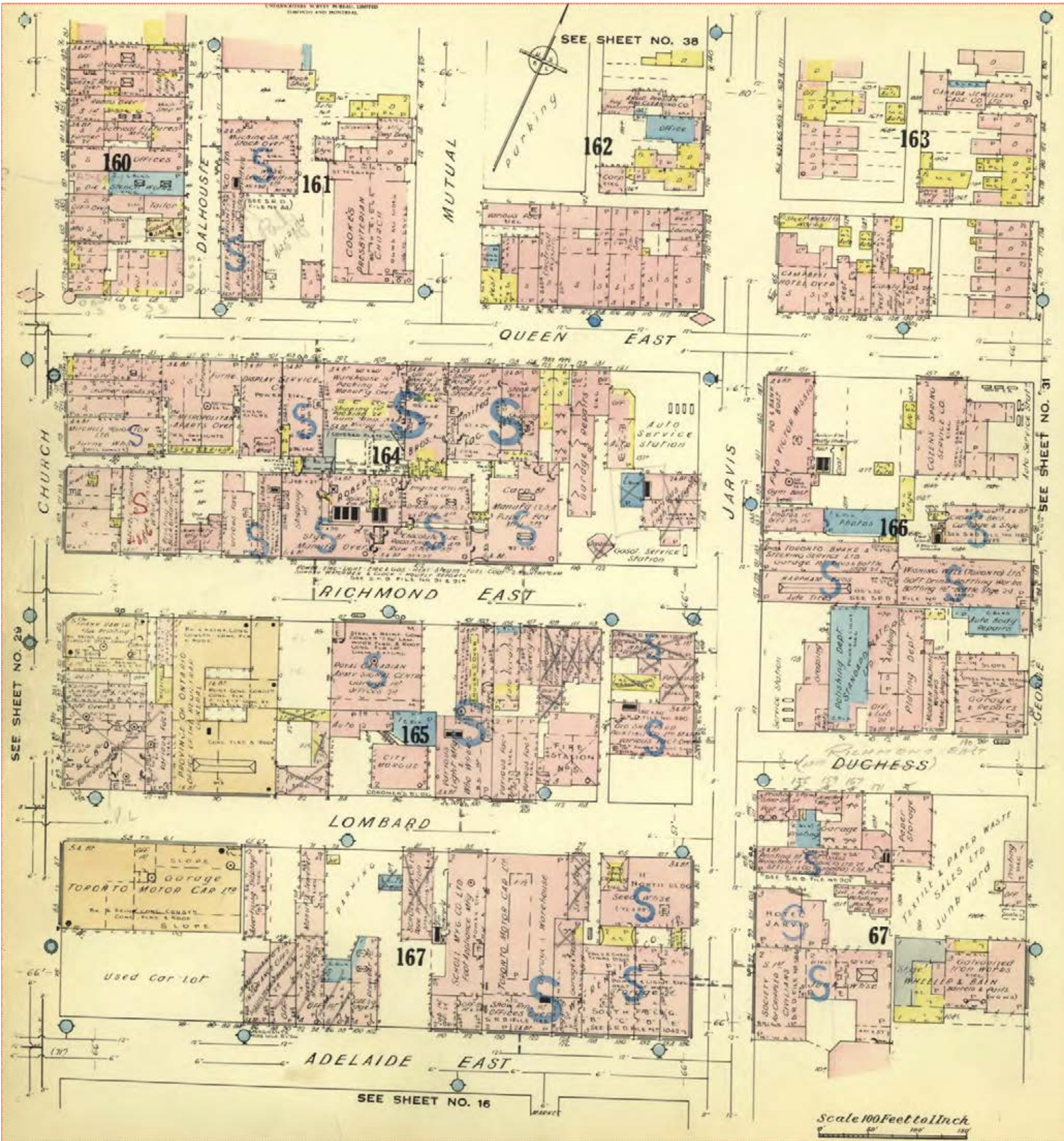




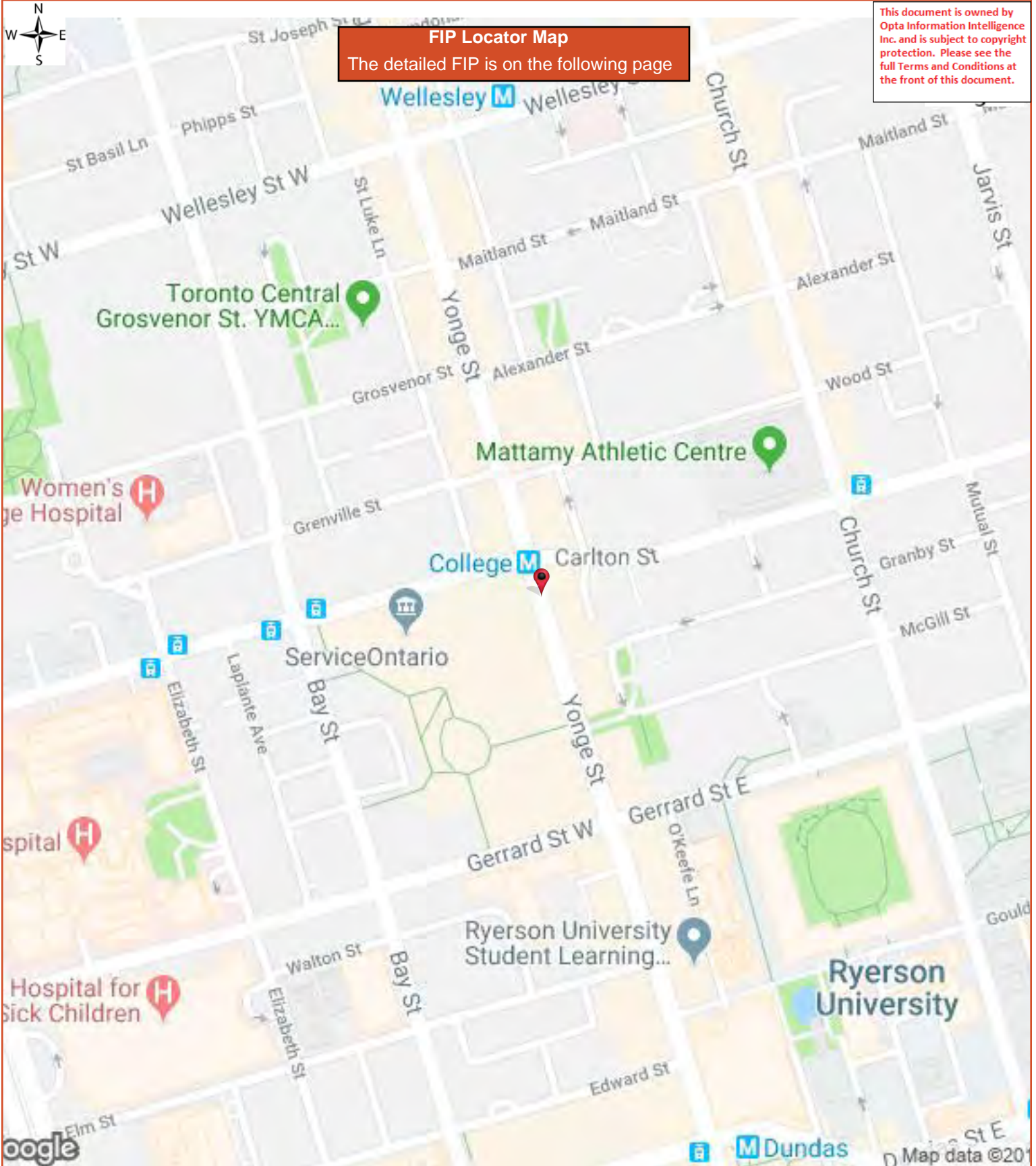


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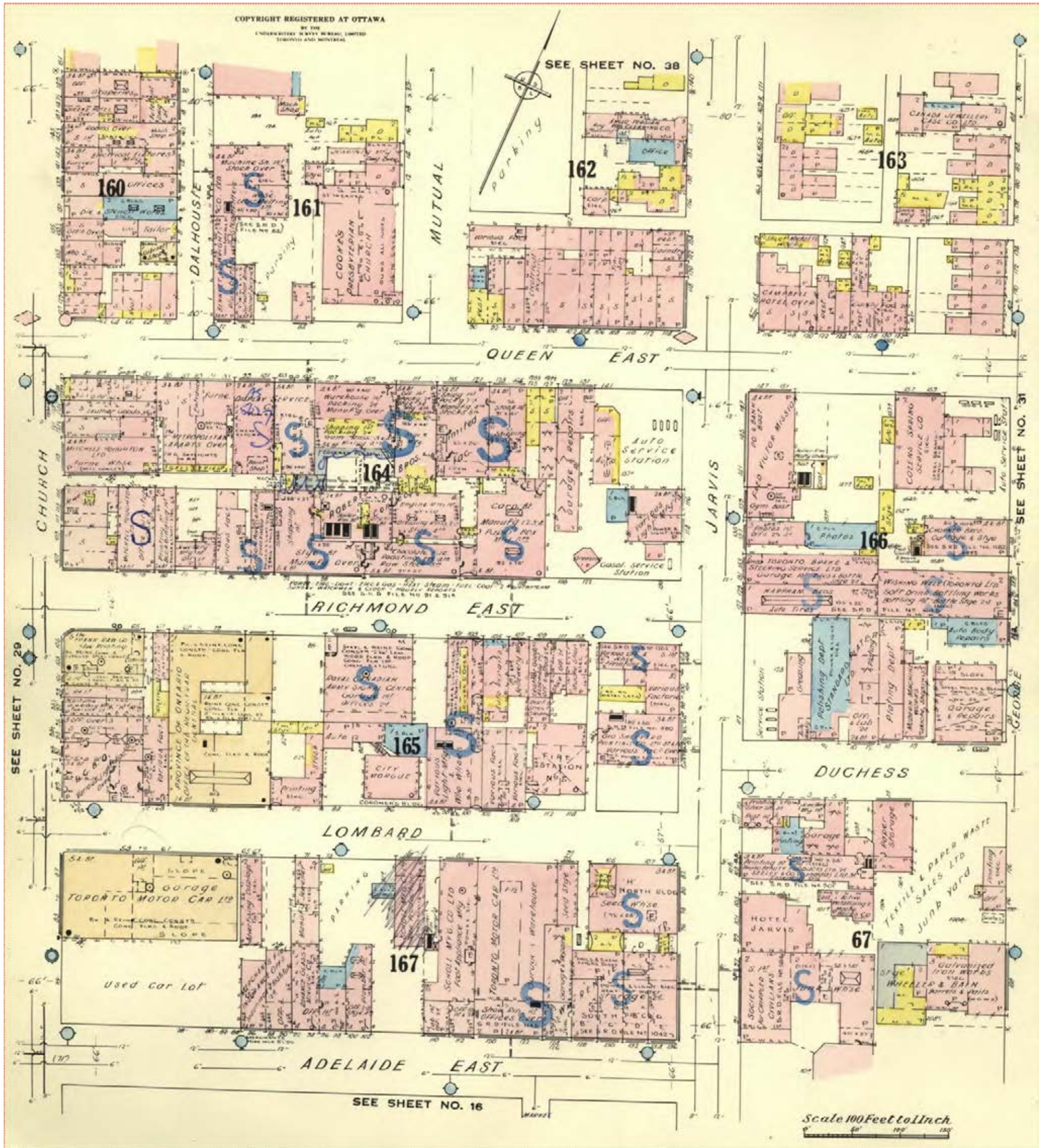




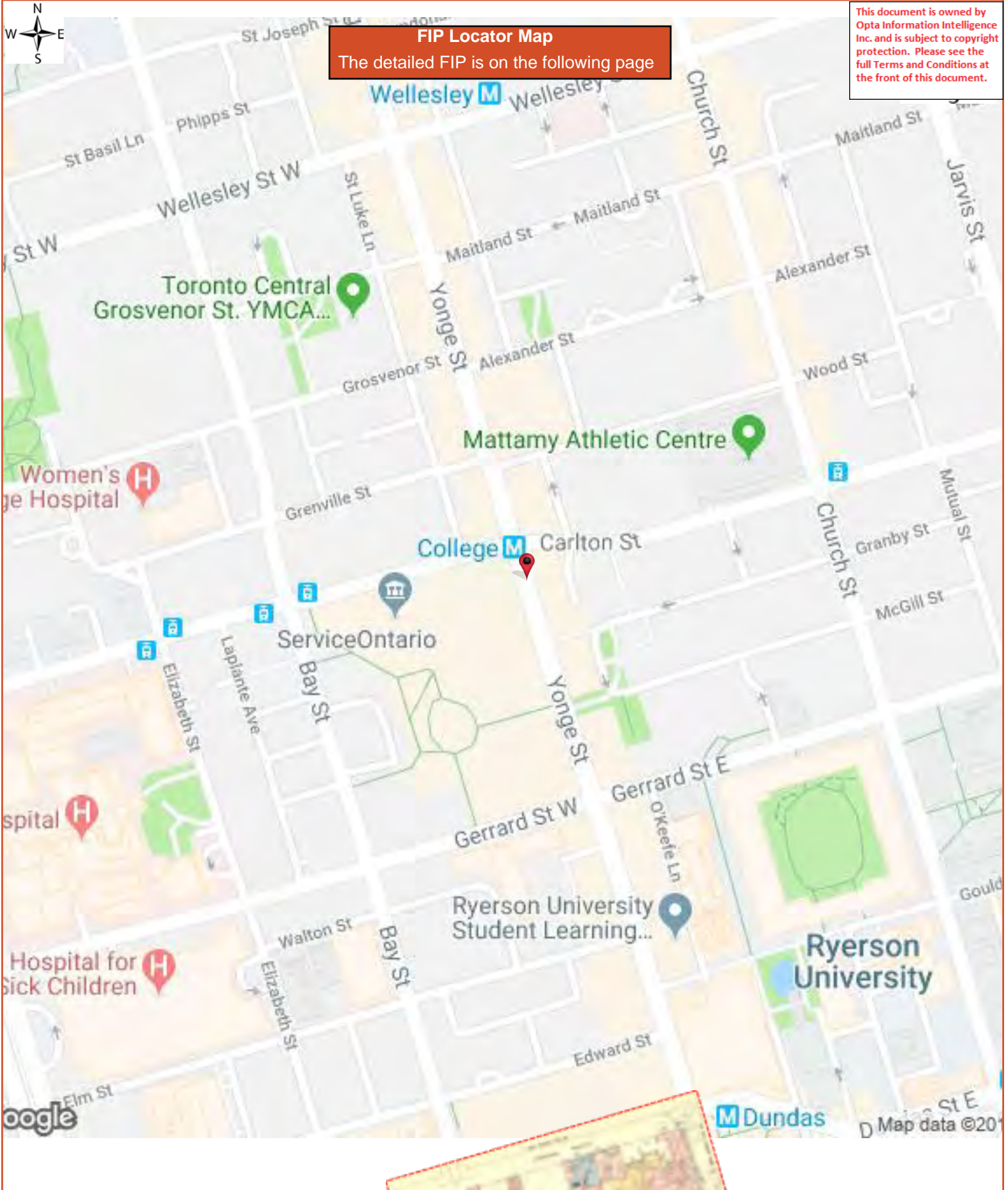




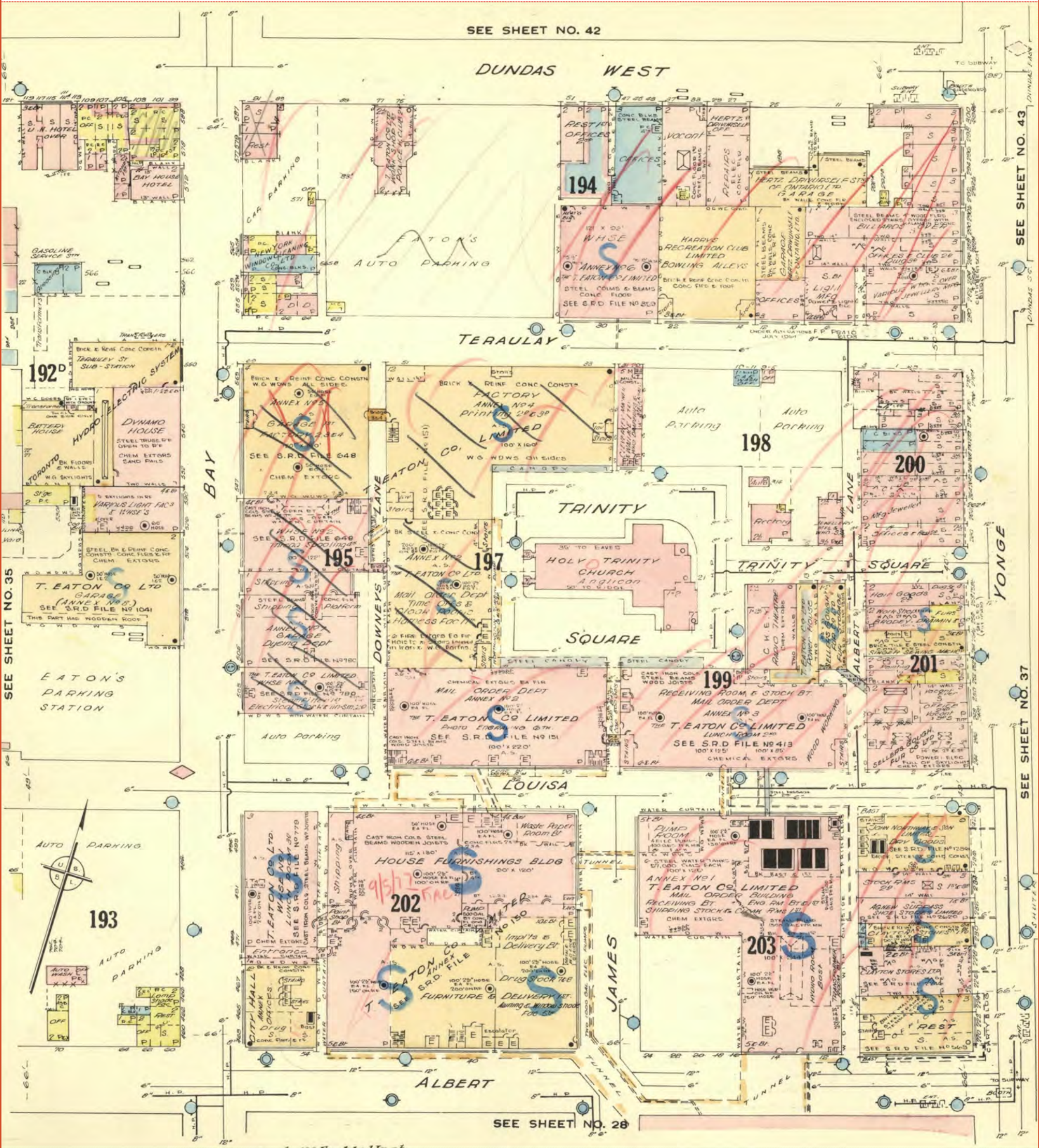




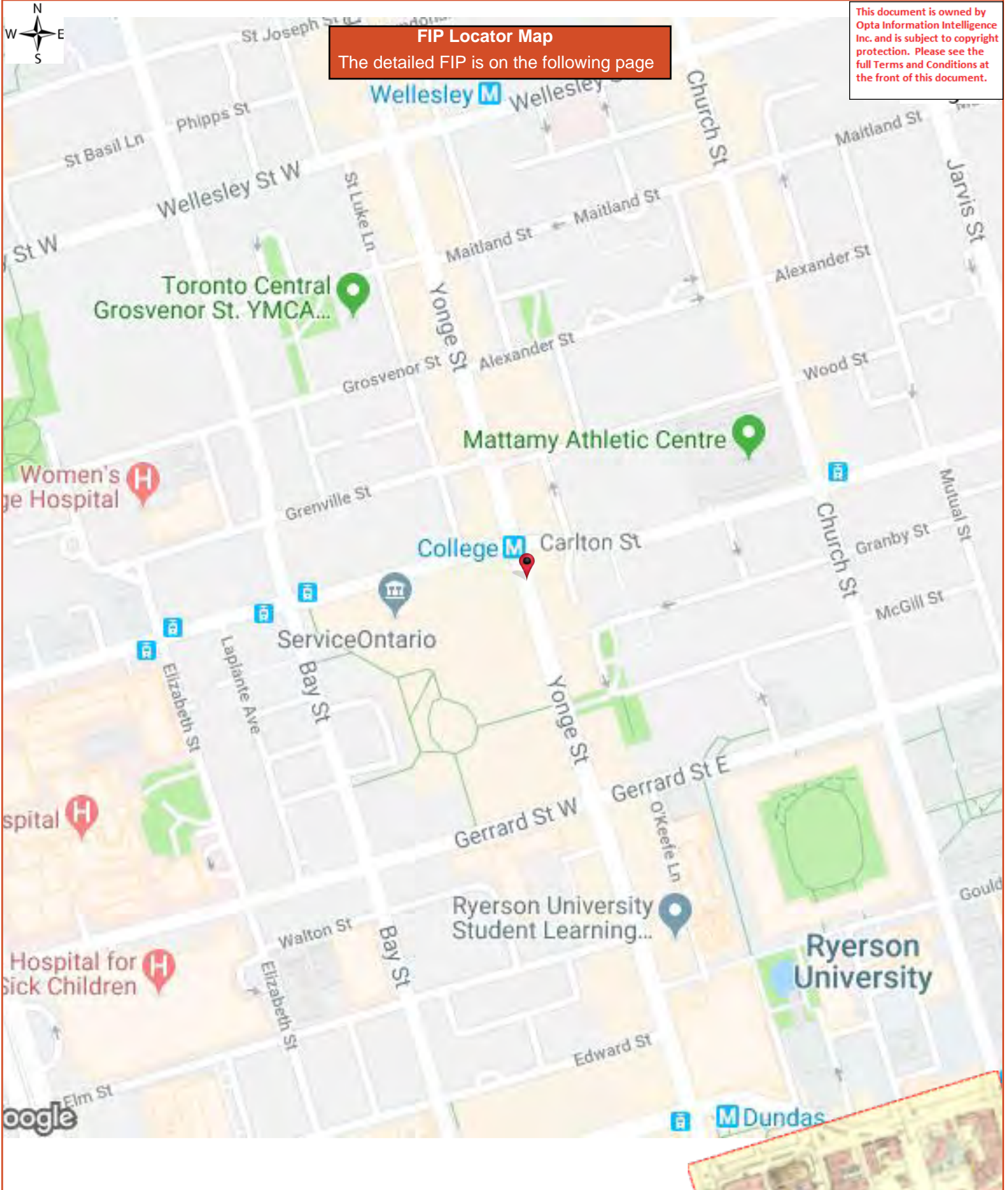




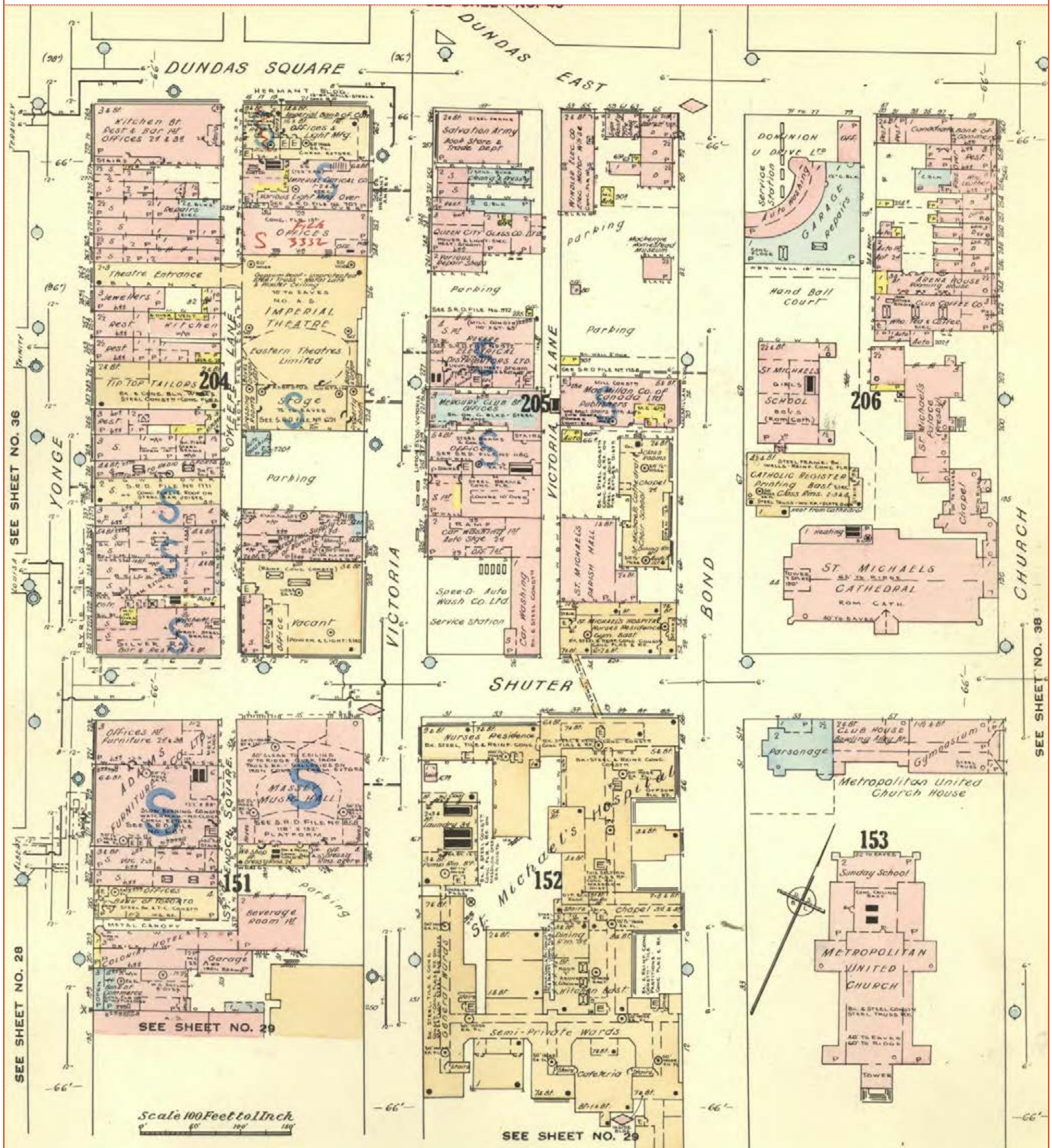




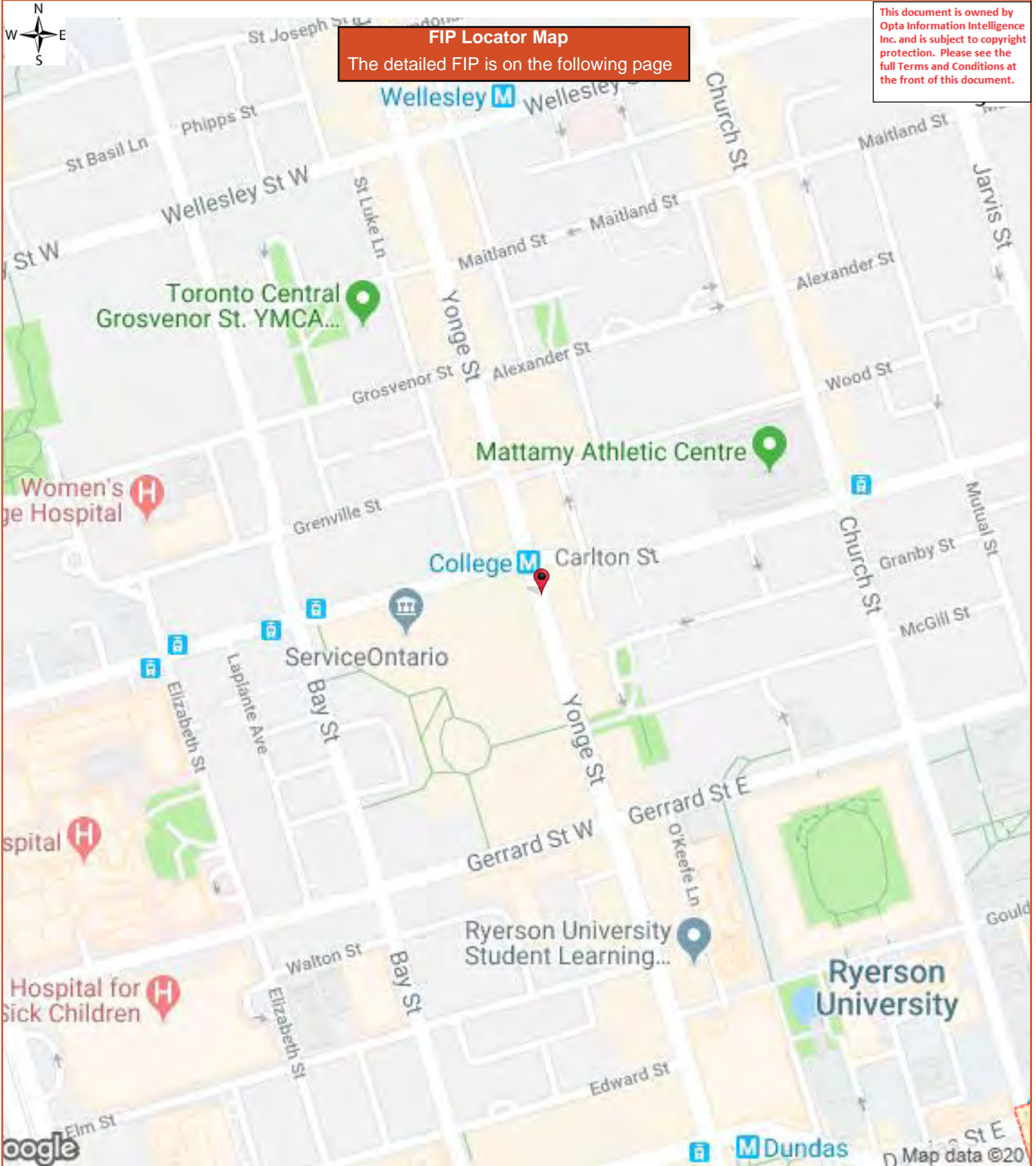




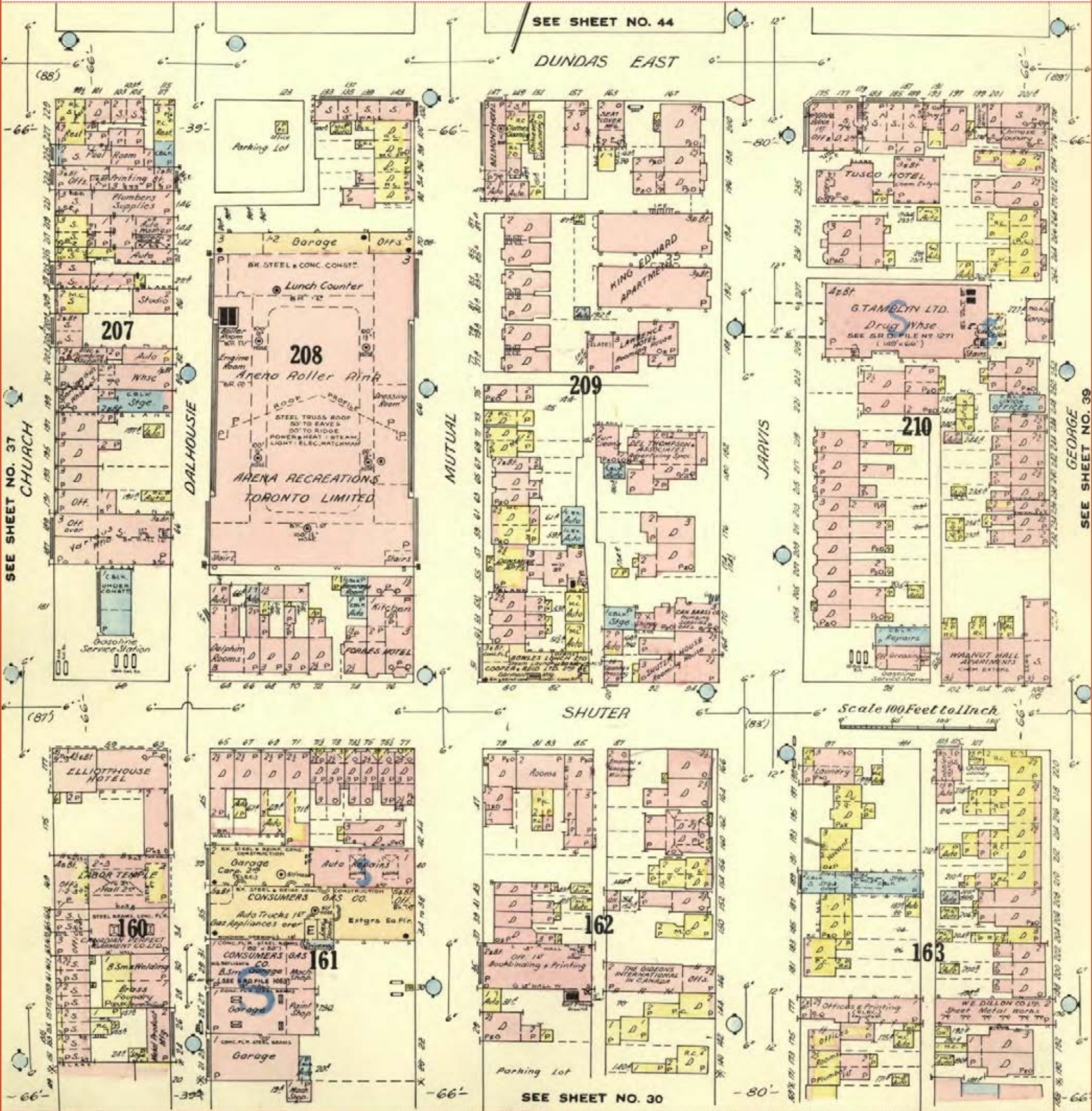




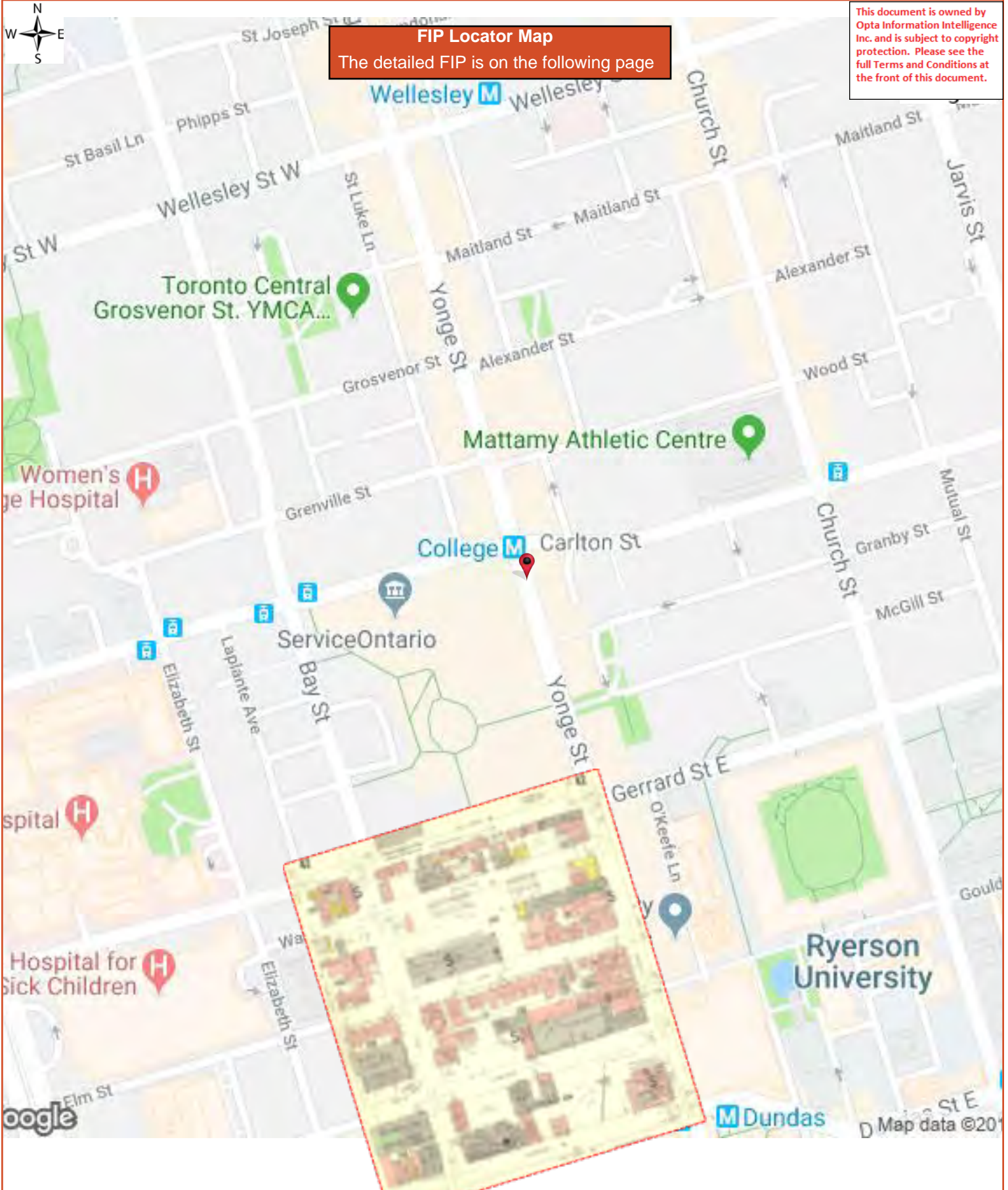




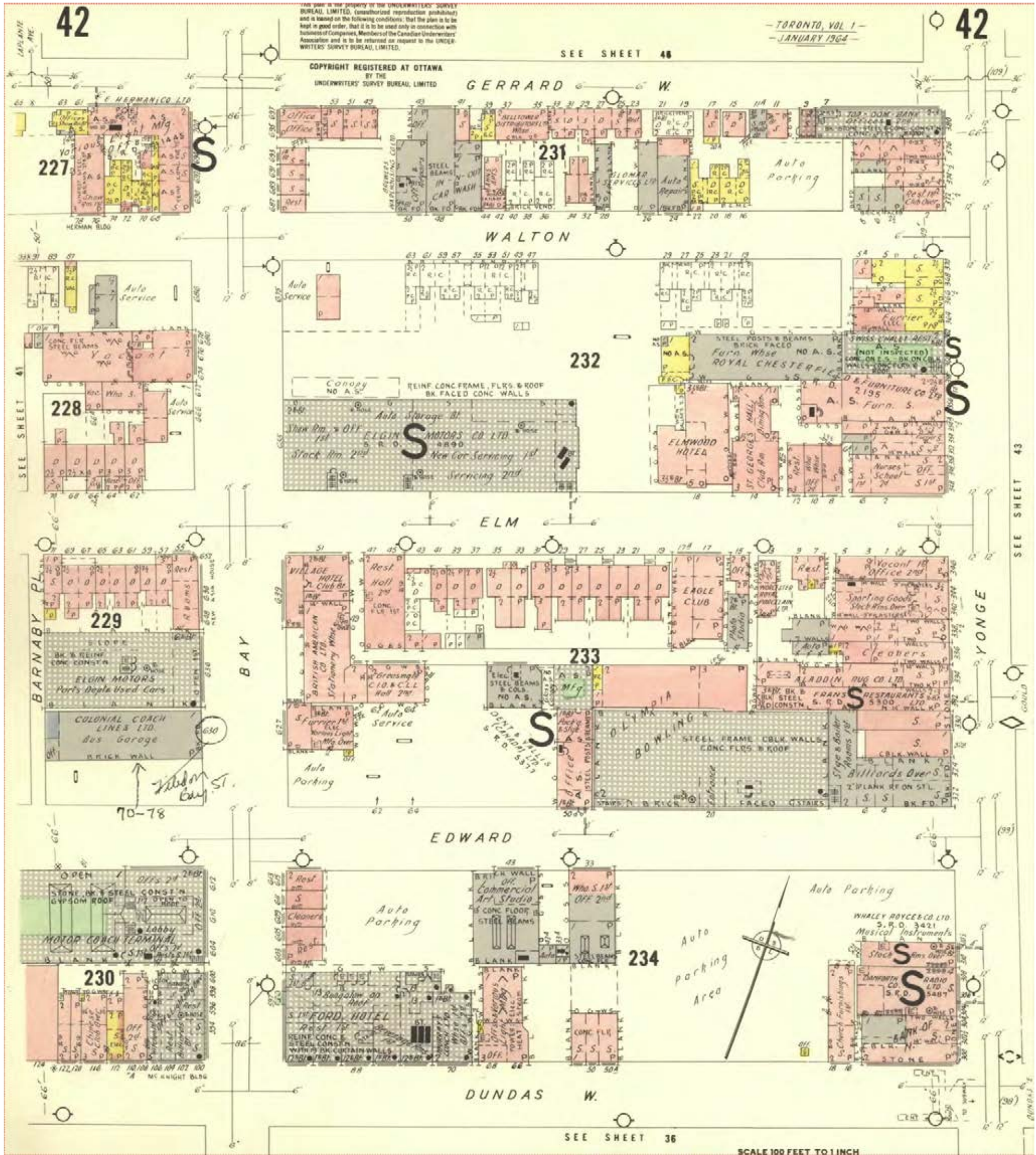




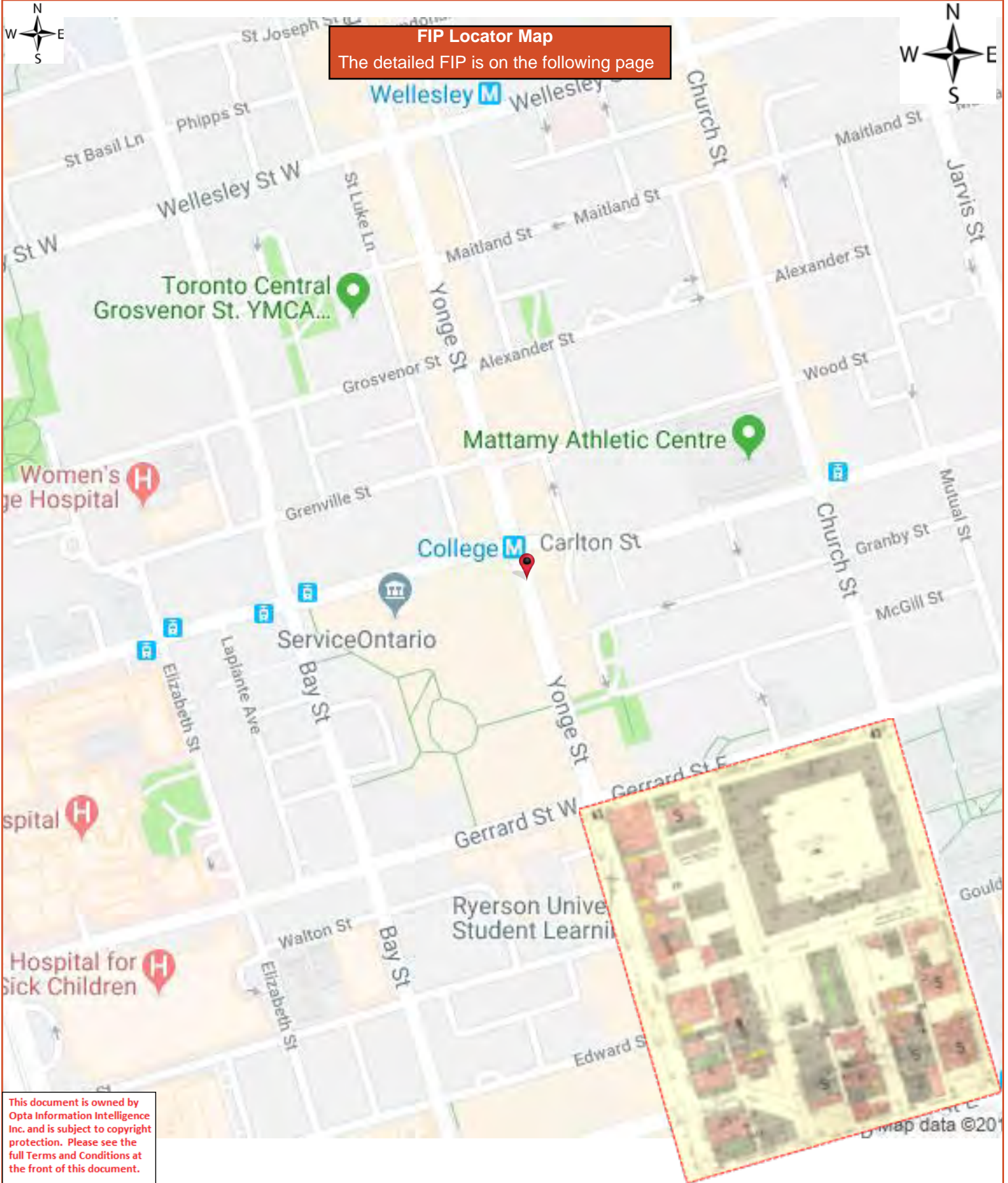




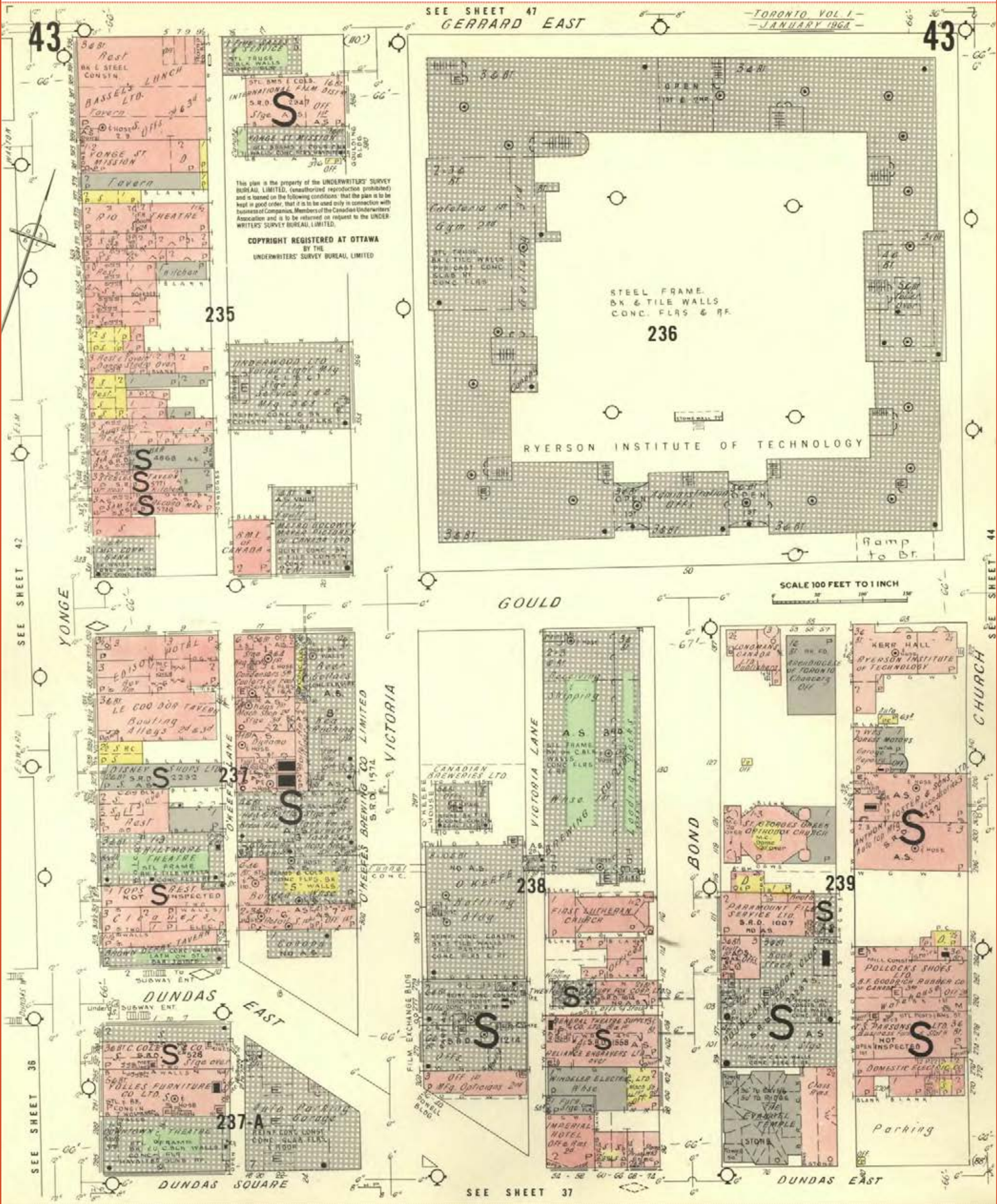




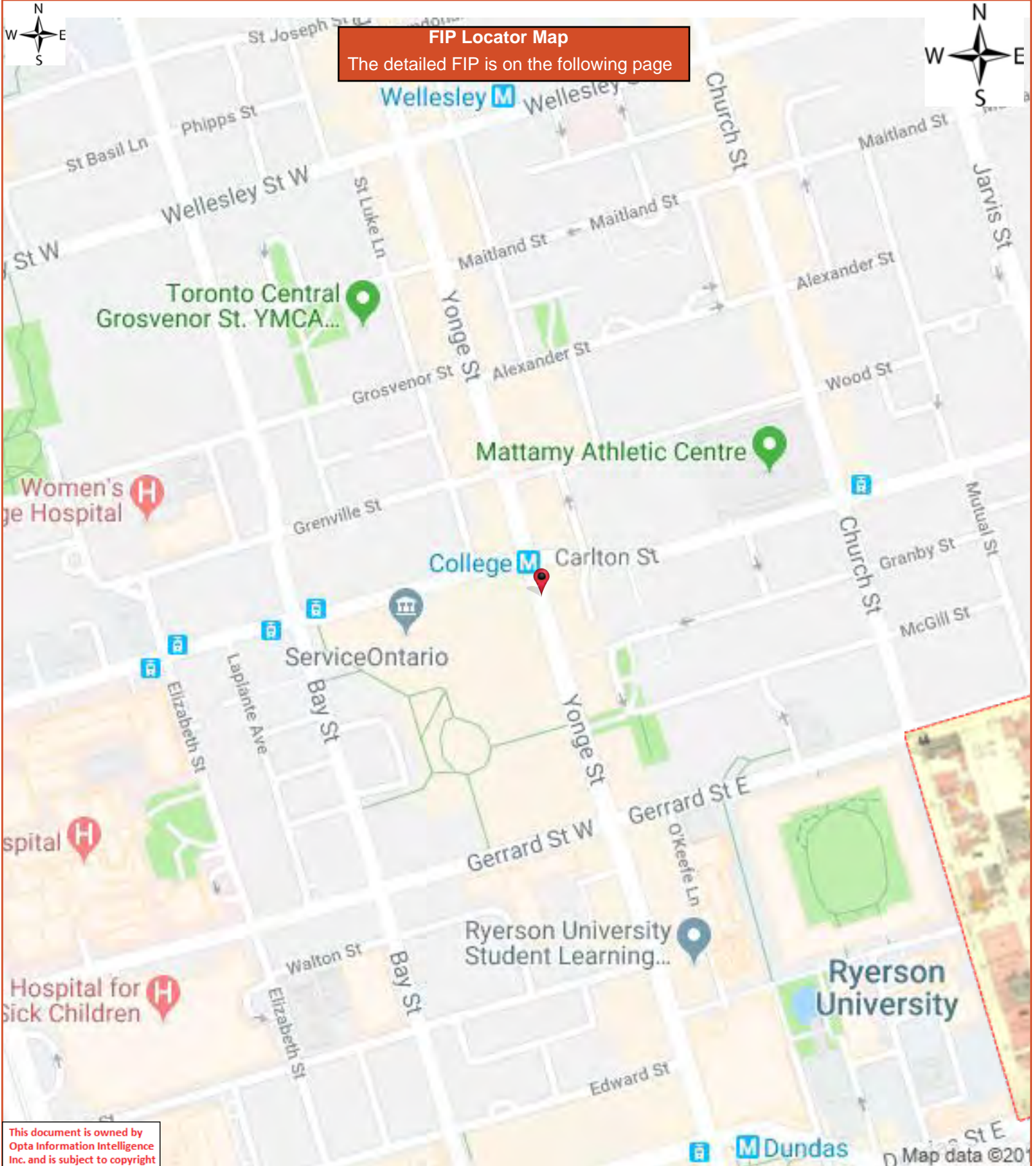






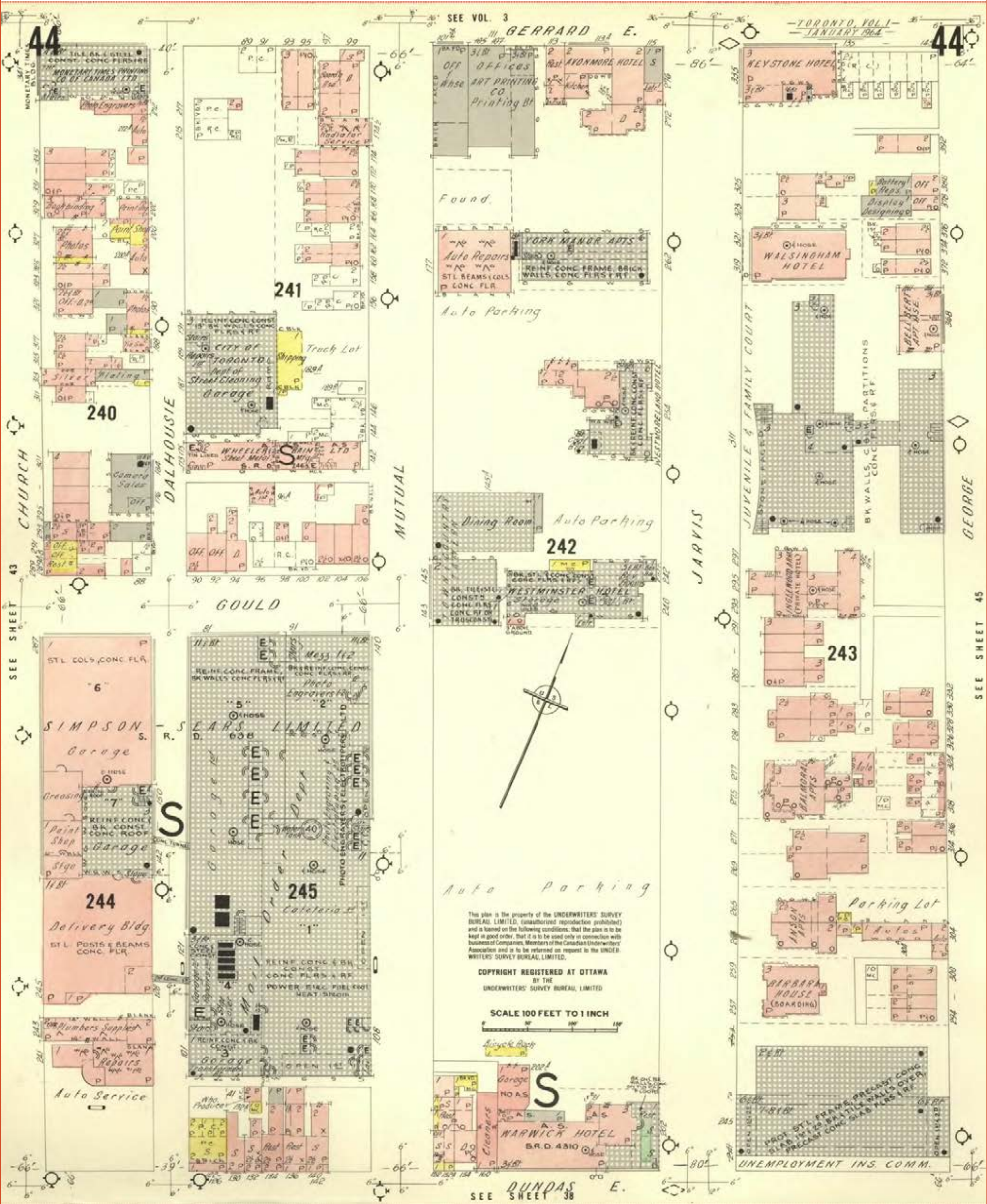






**FIP Locator Map**  
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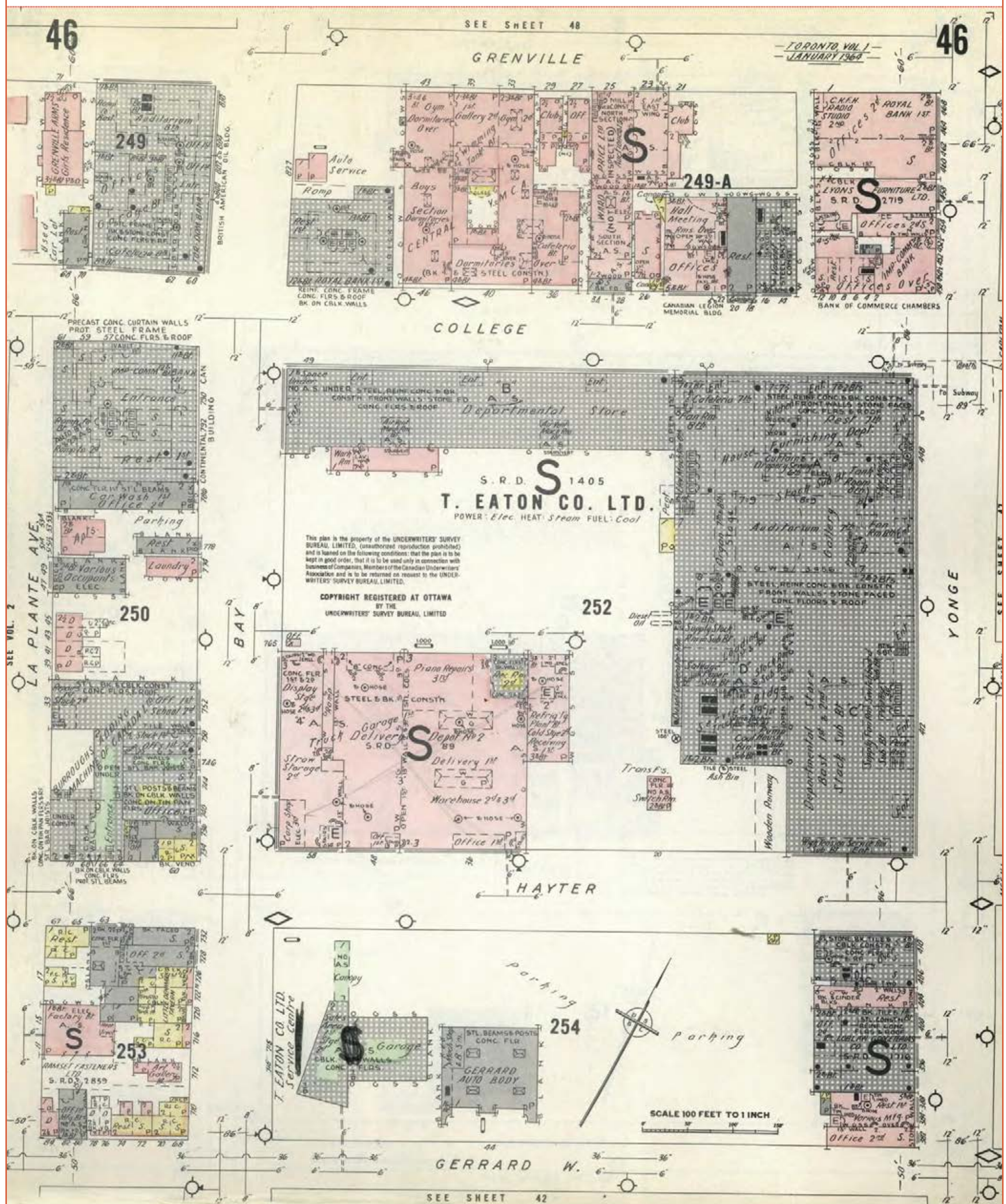


FIP Locator Map

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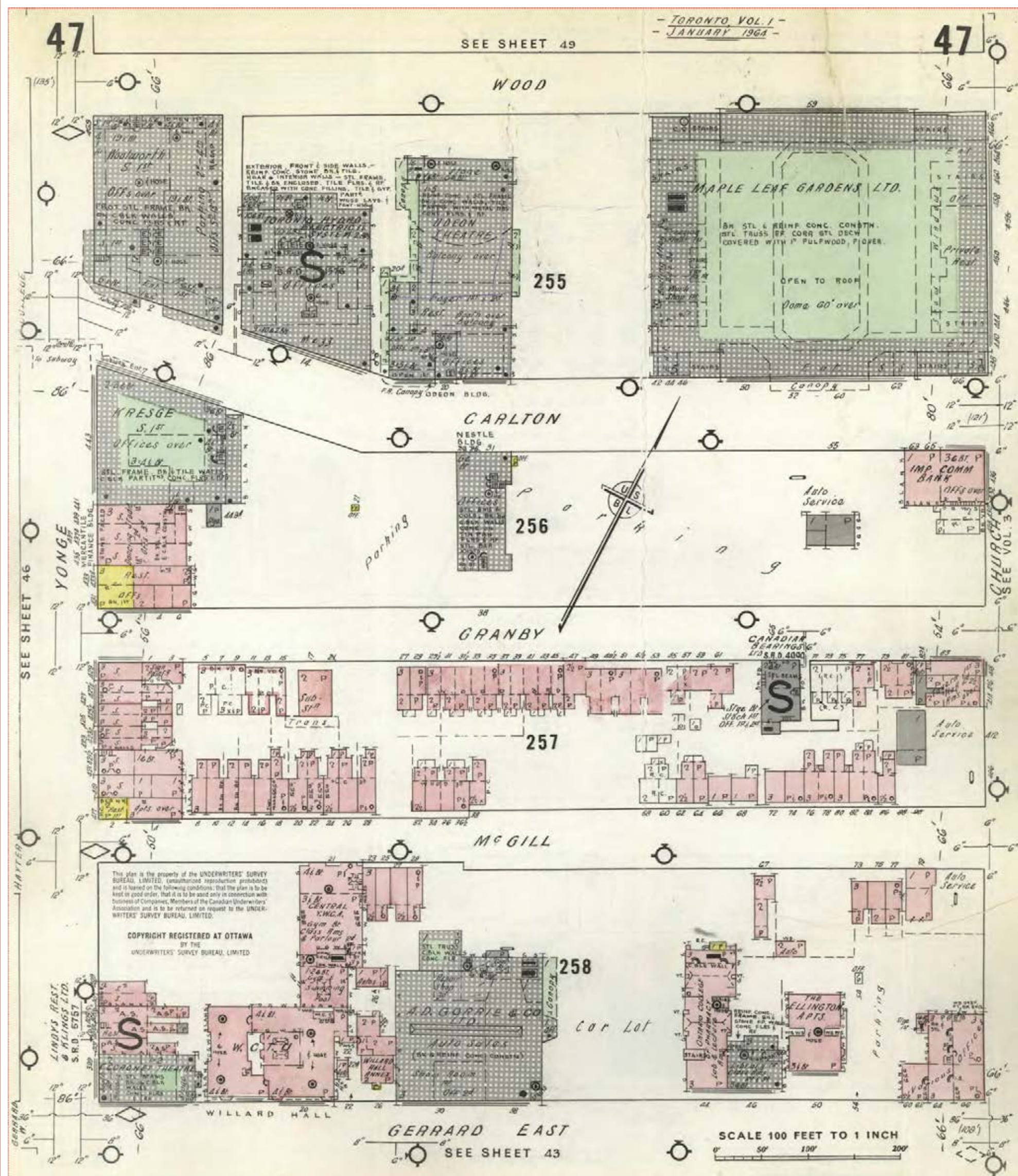




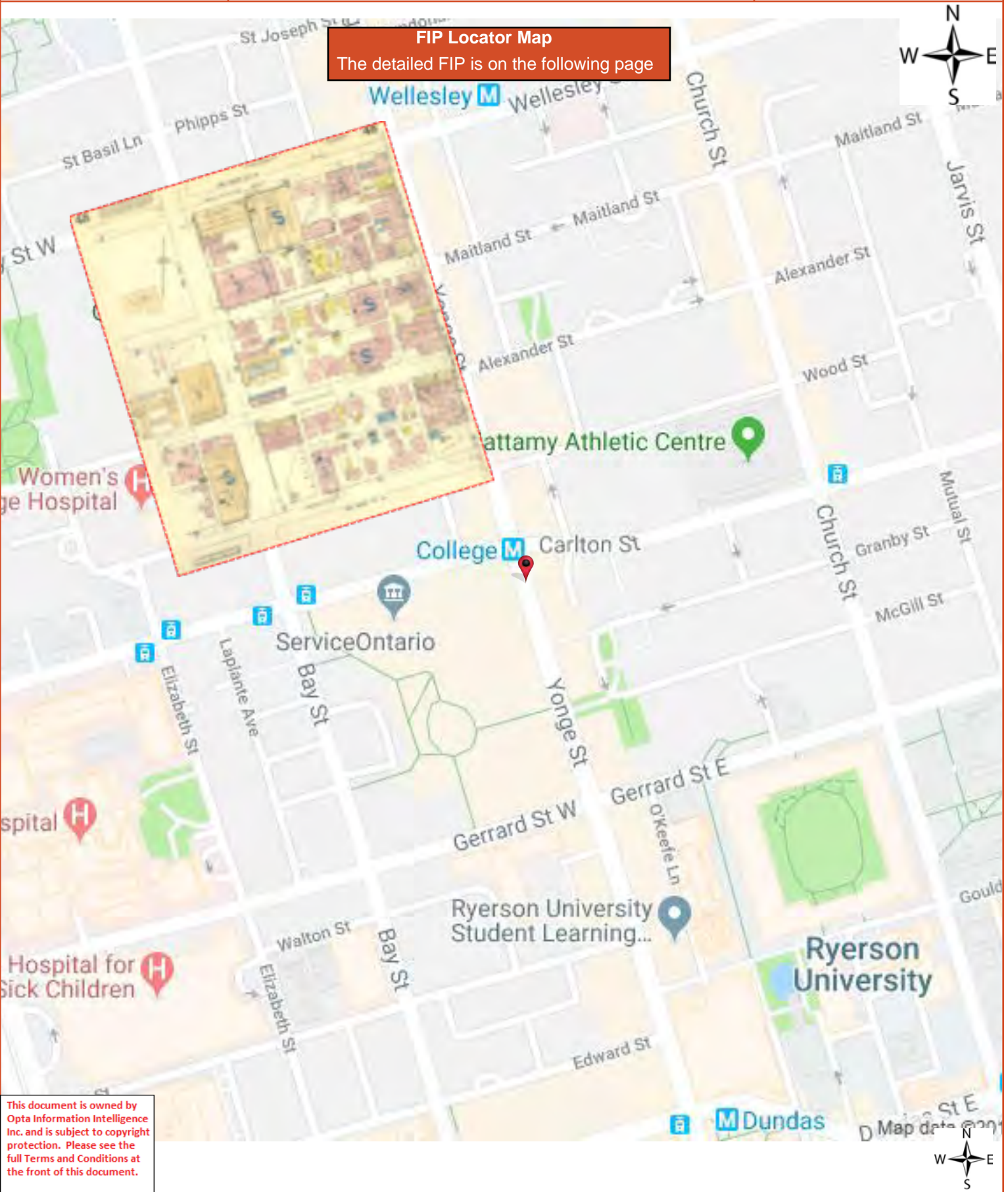




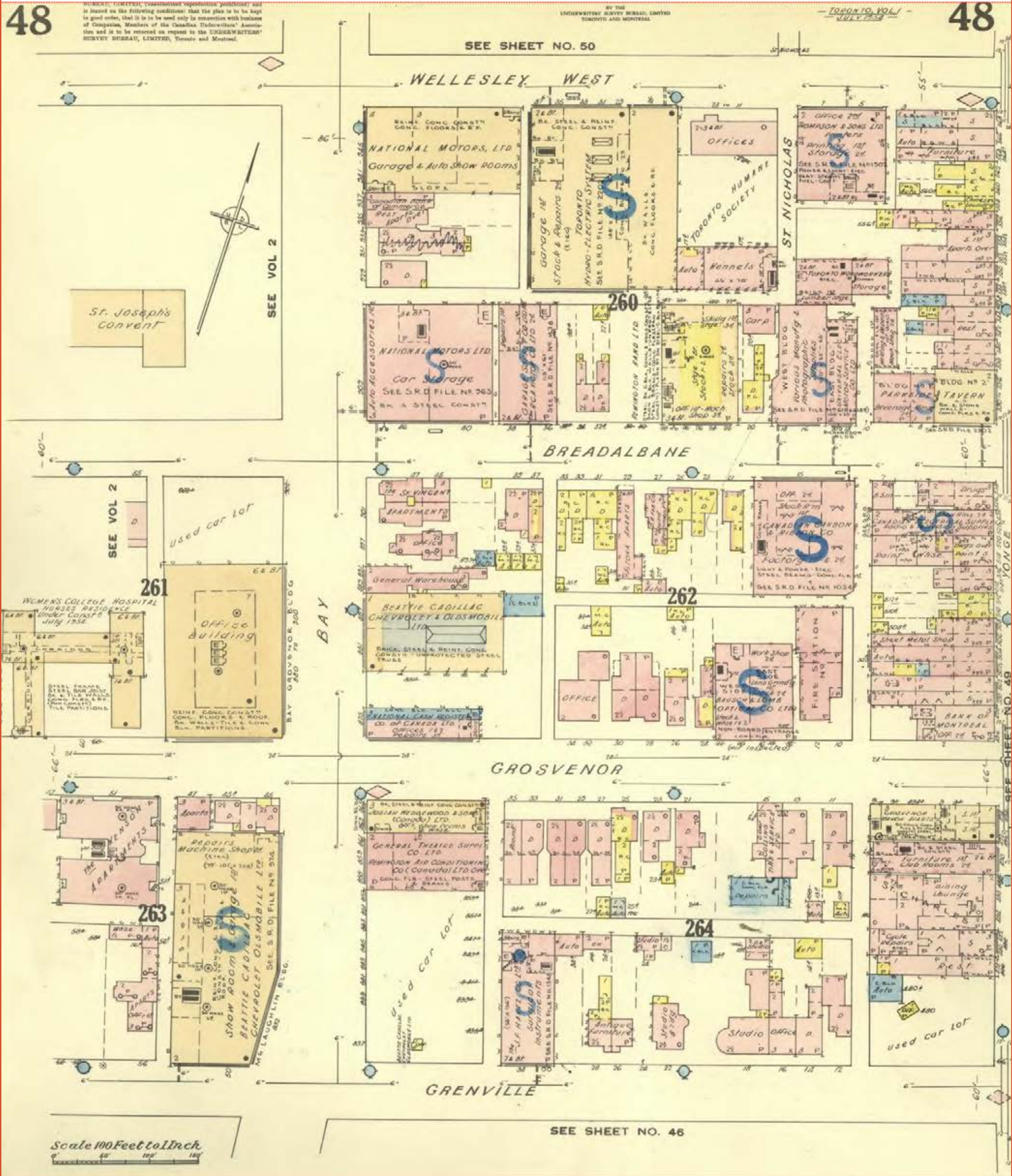




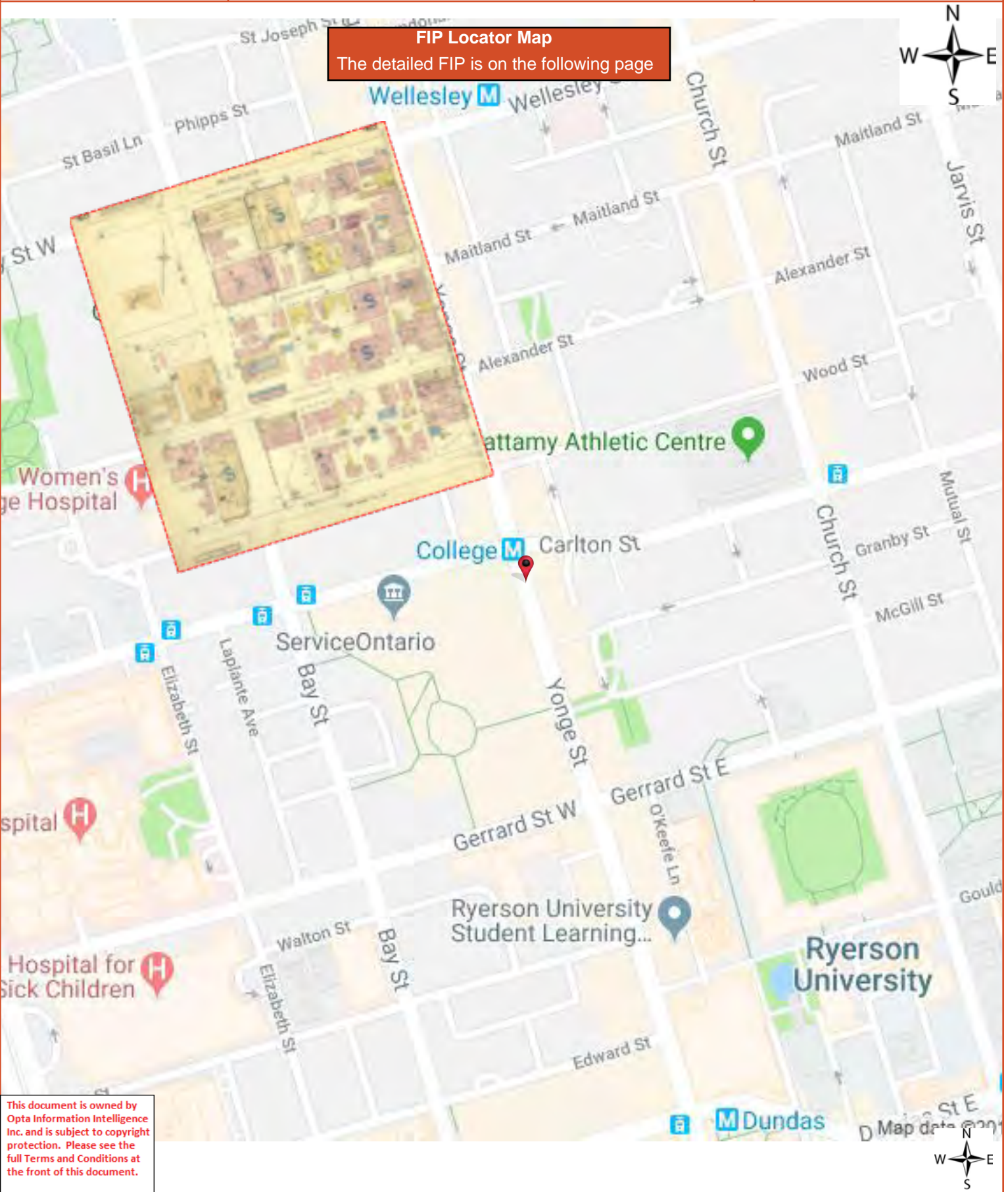




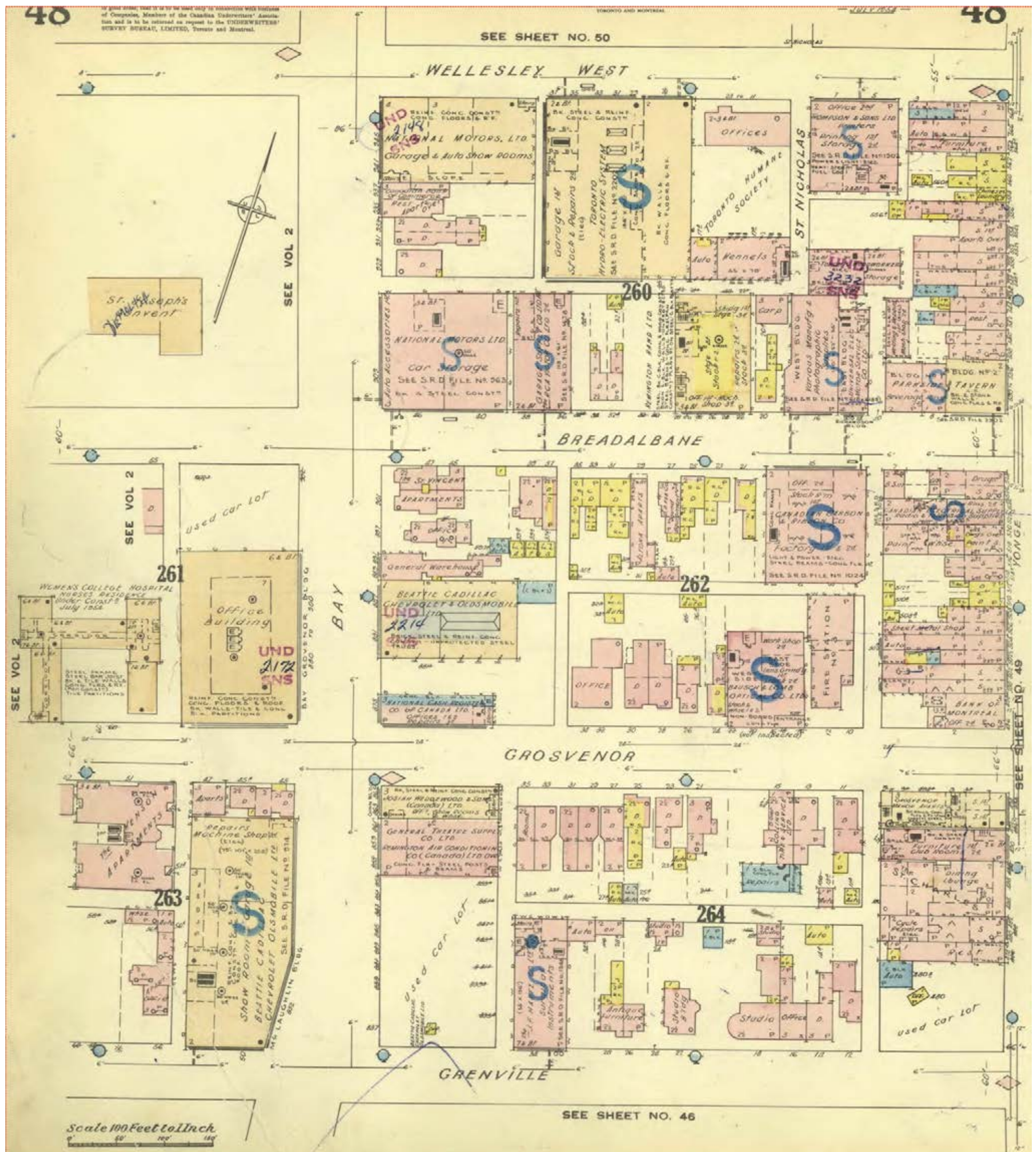




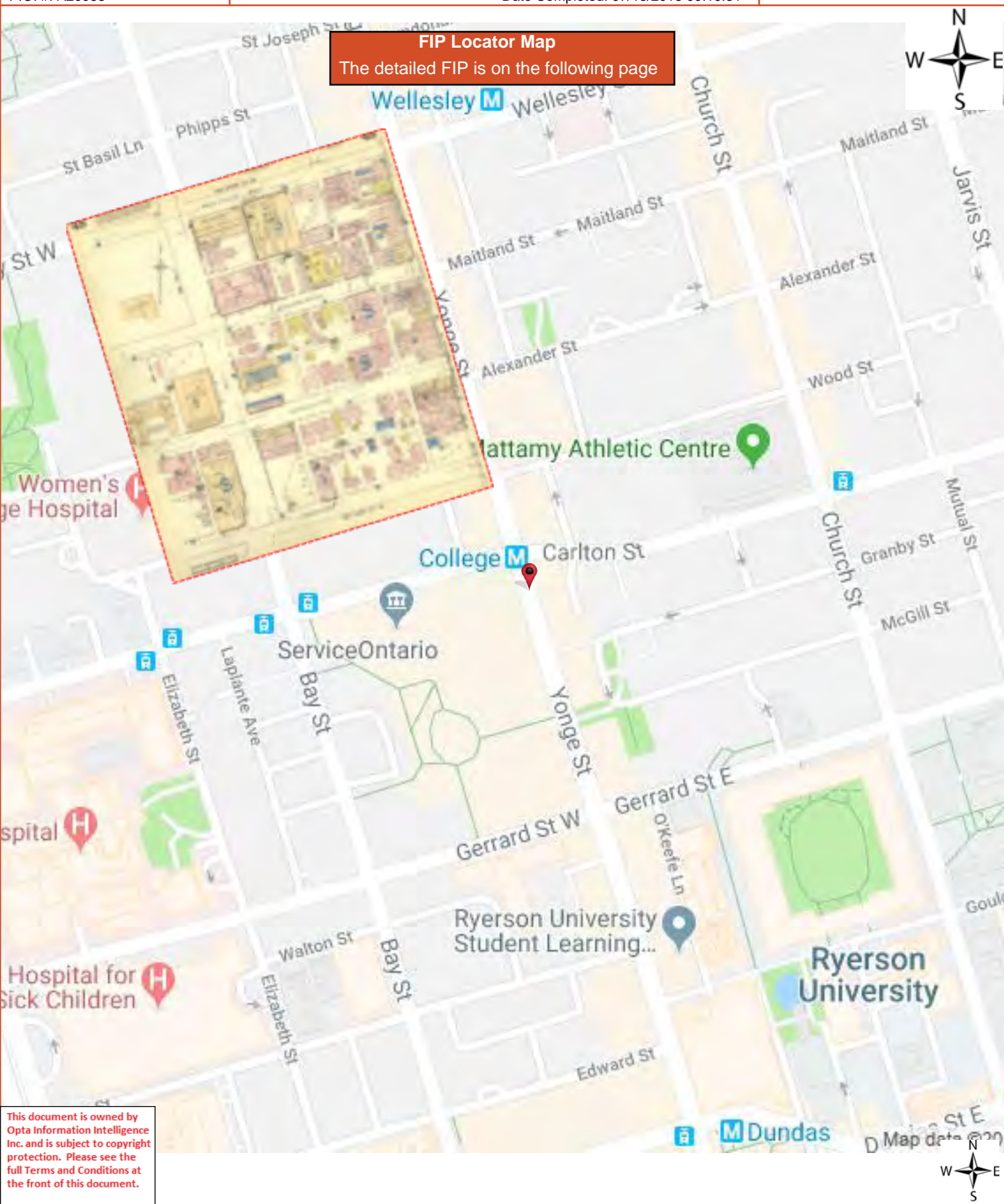




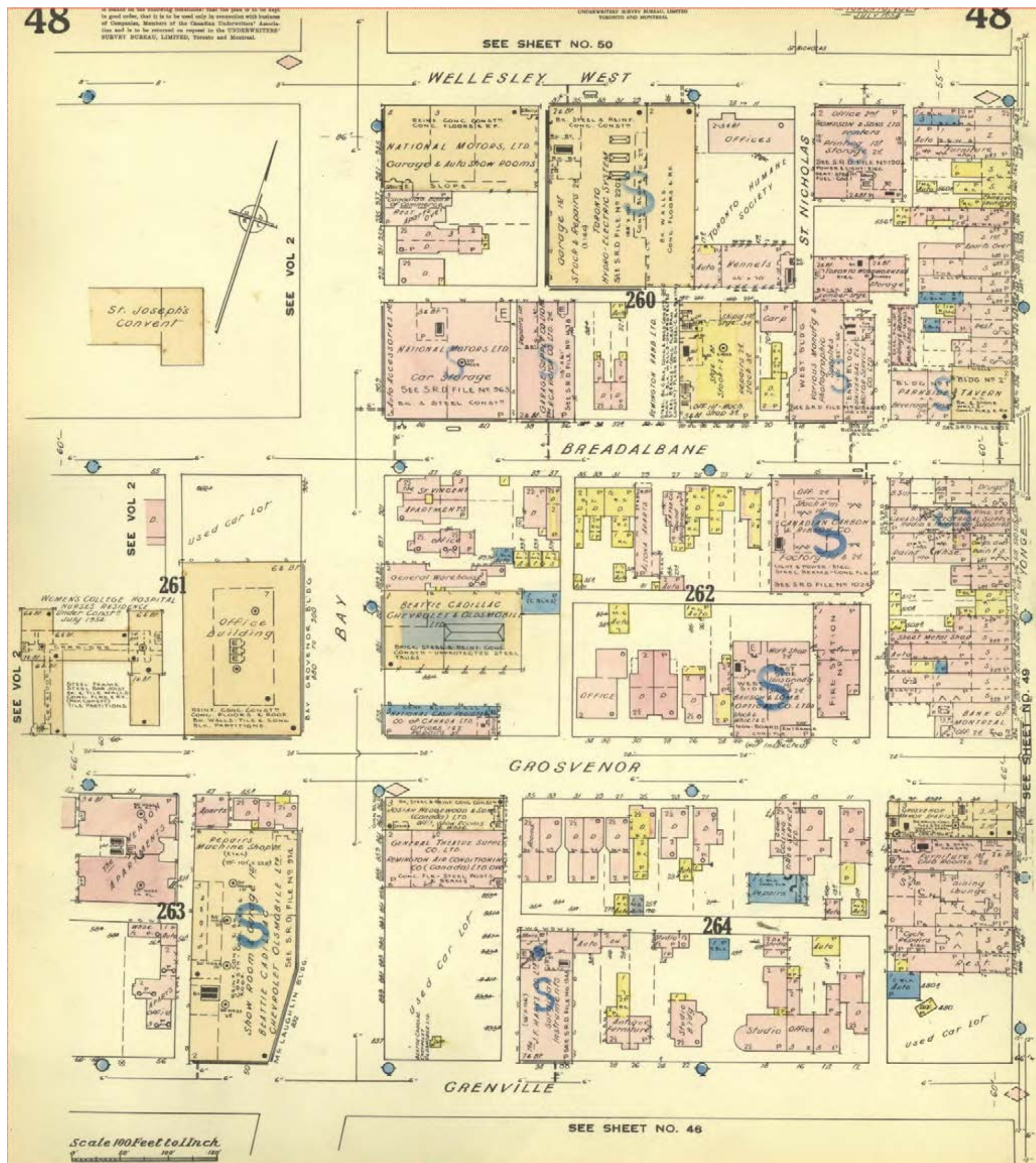








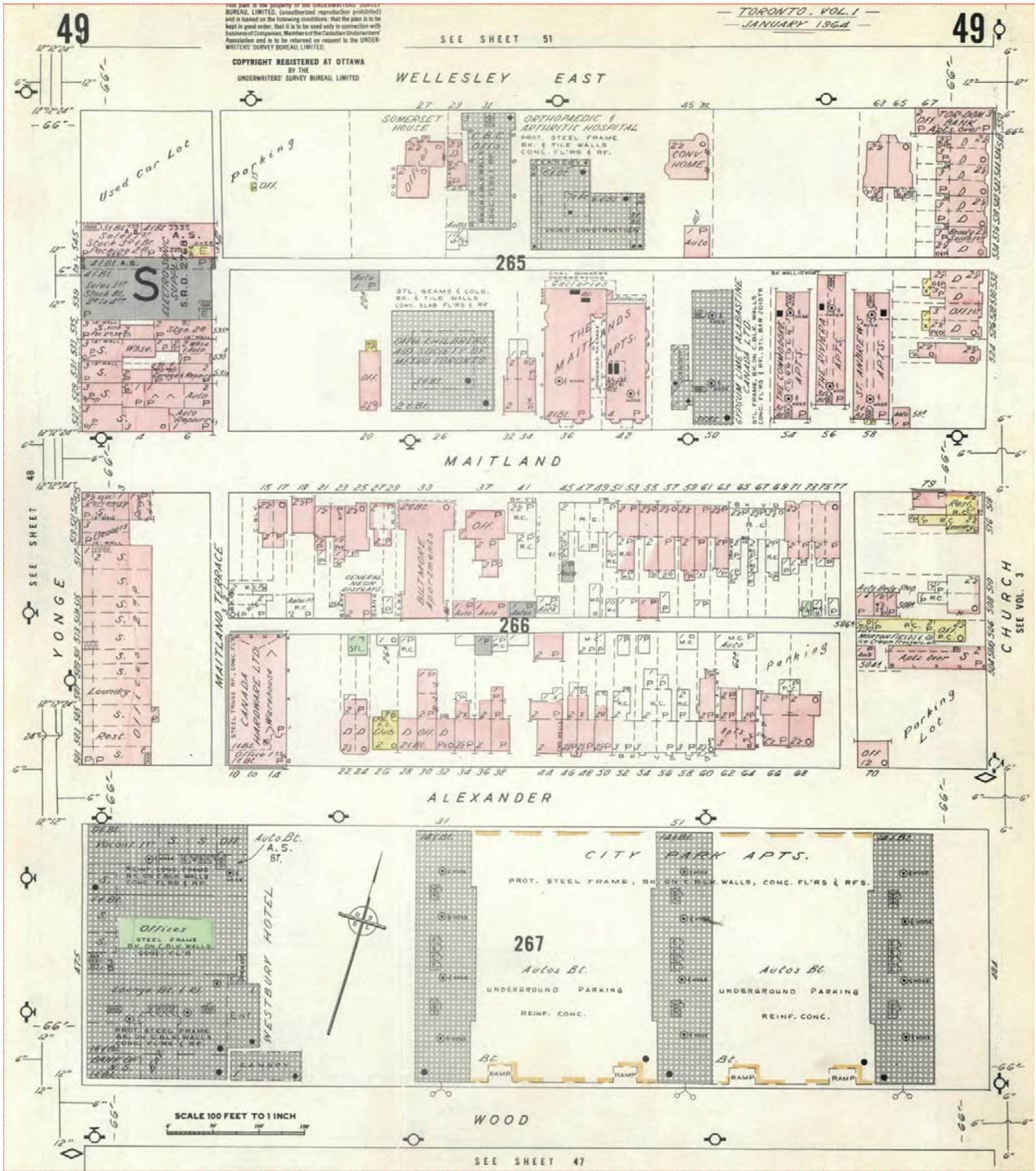




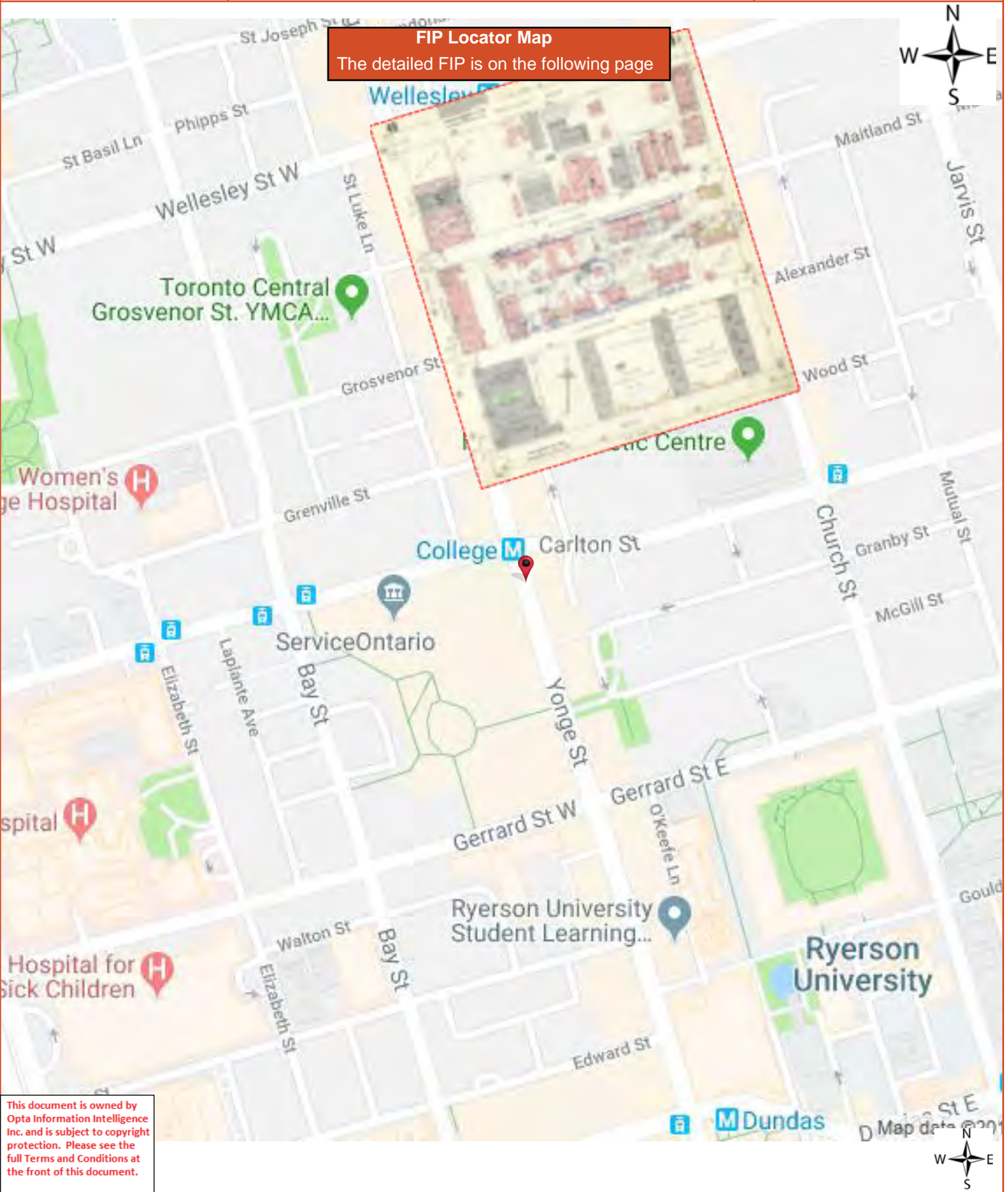




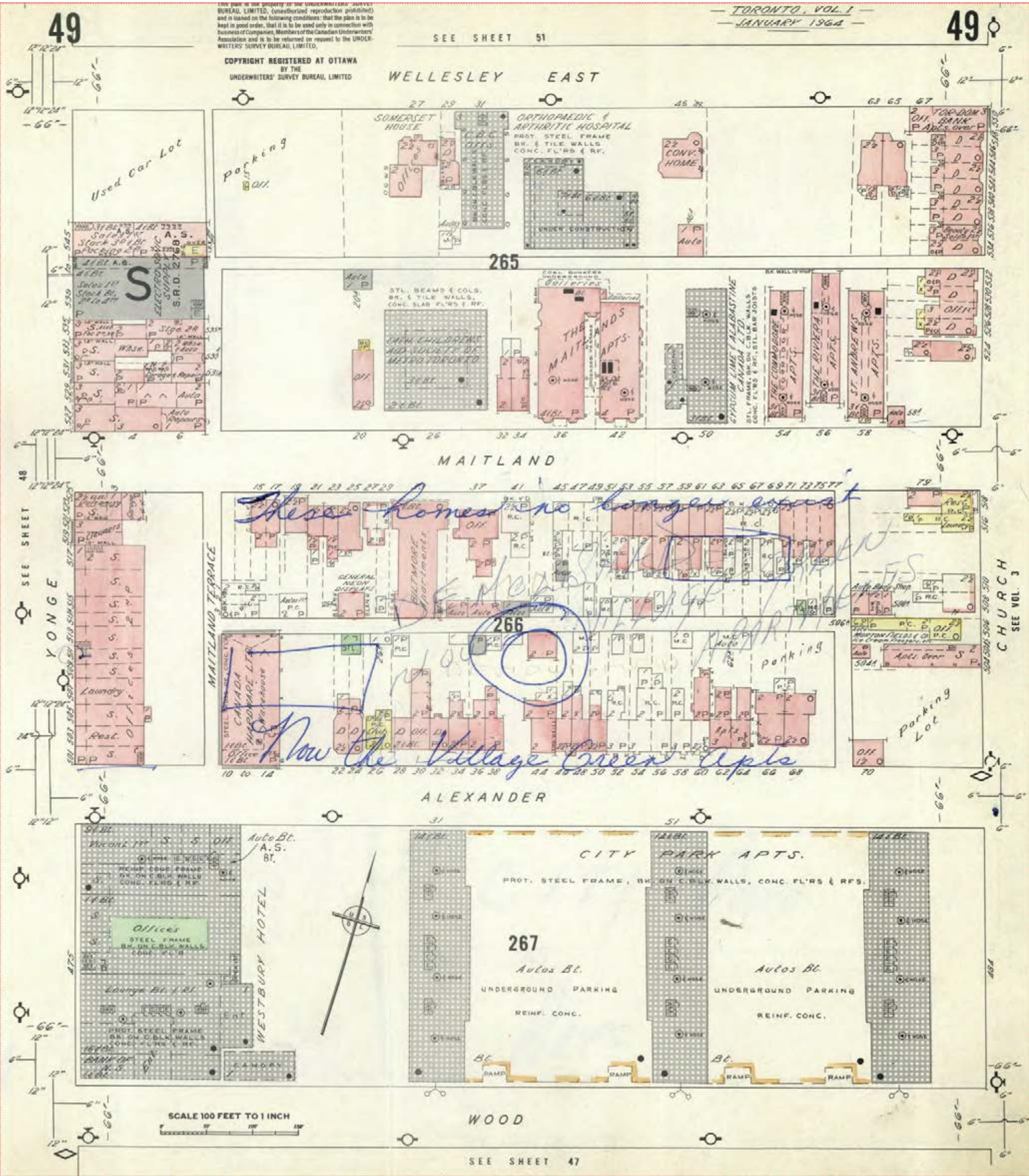




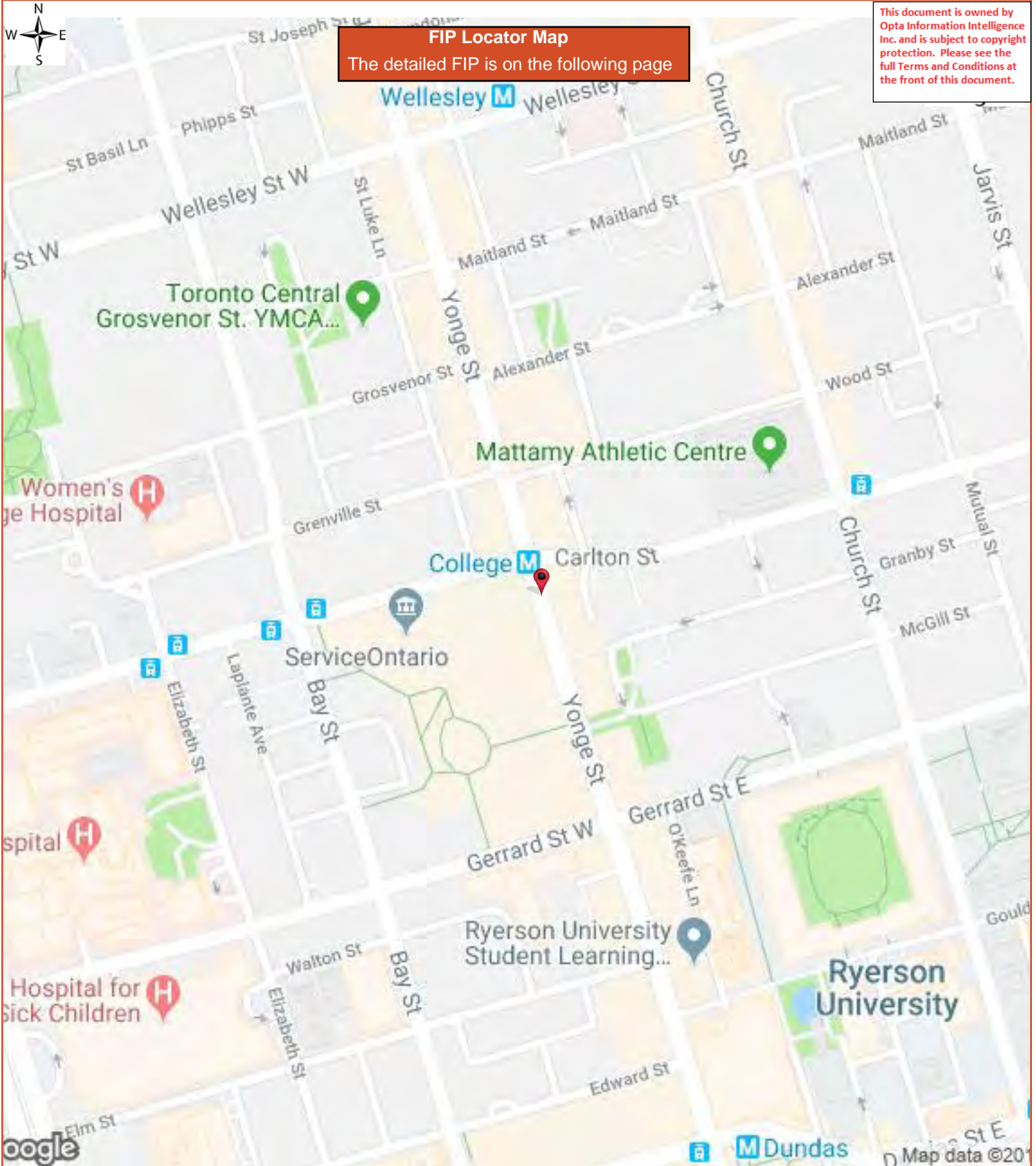






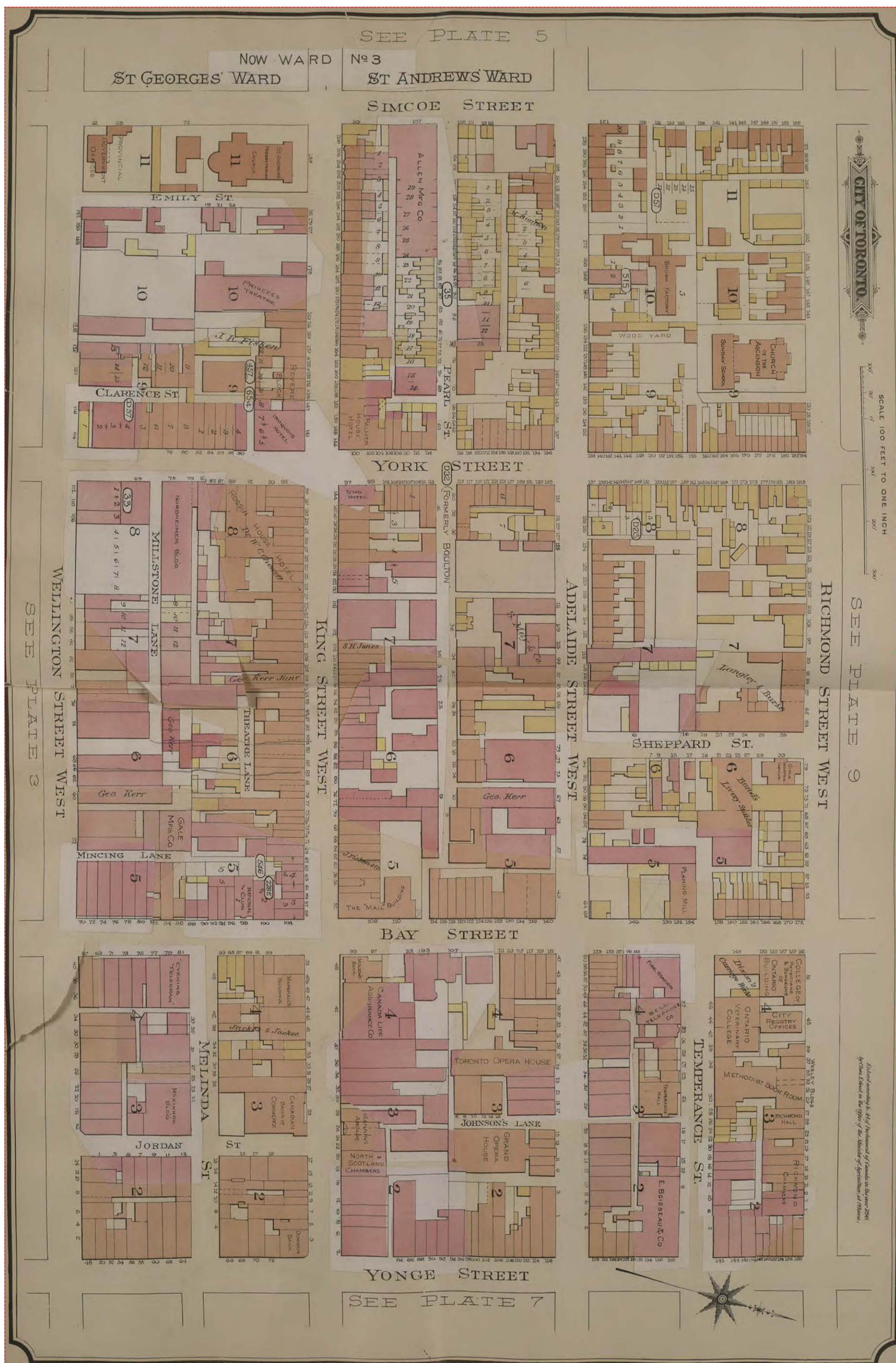




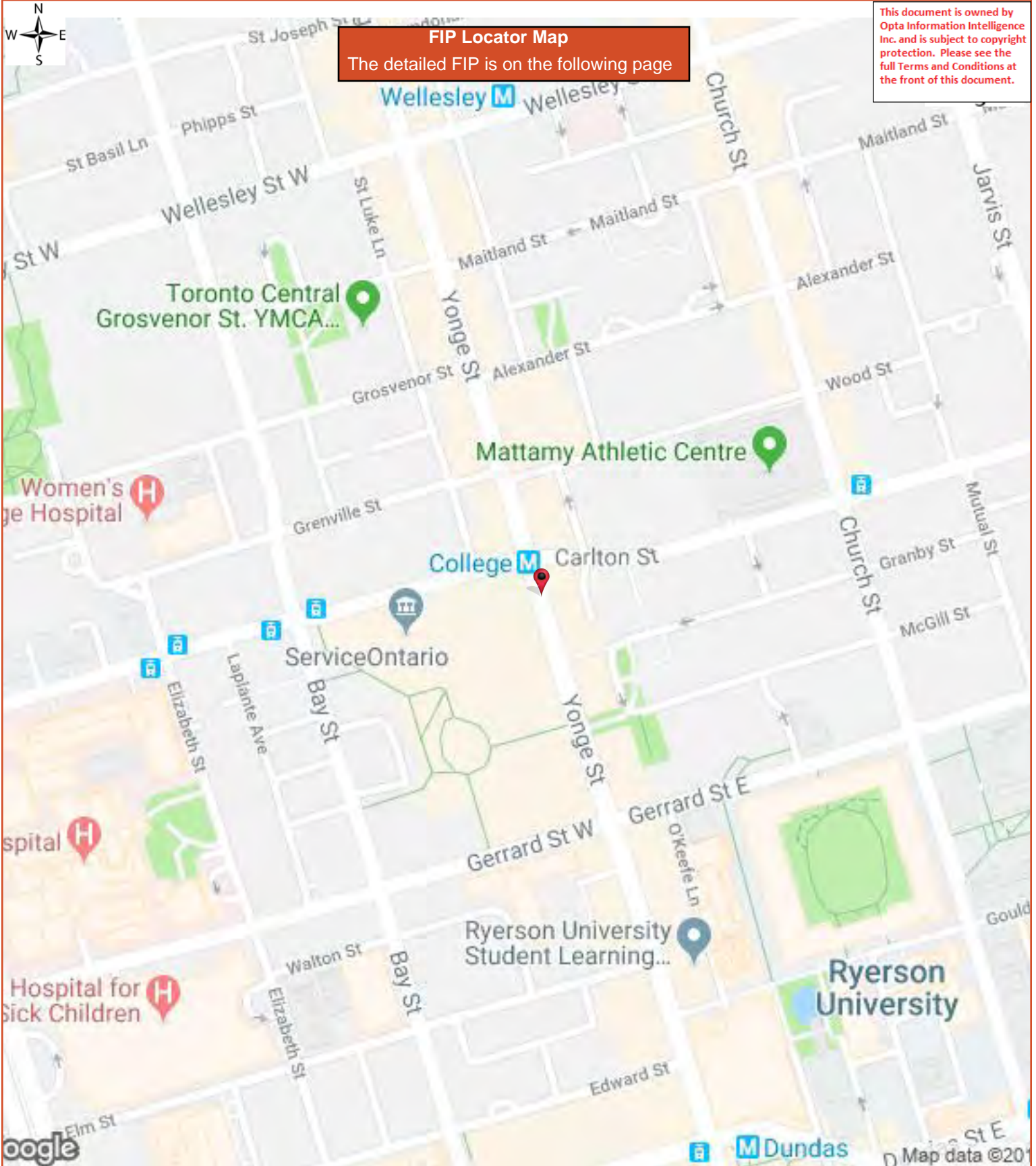


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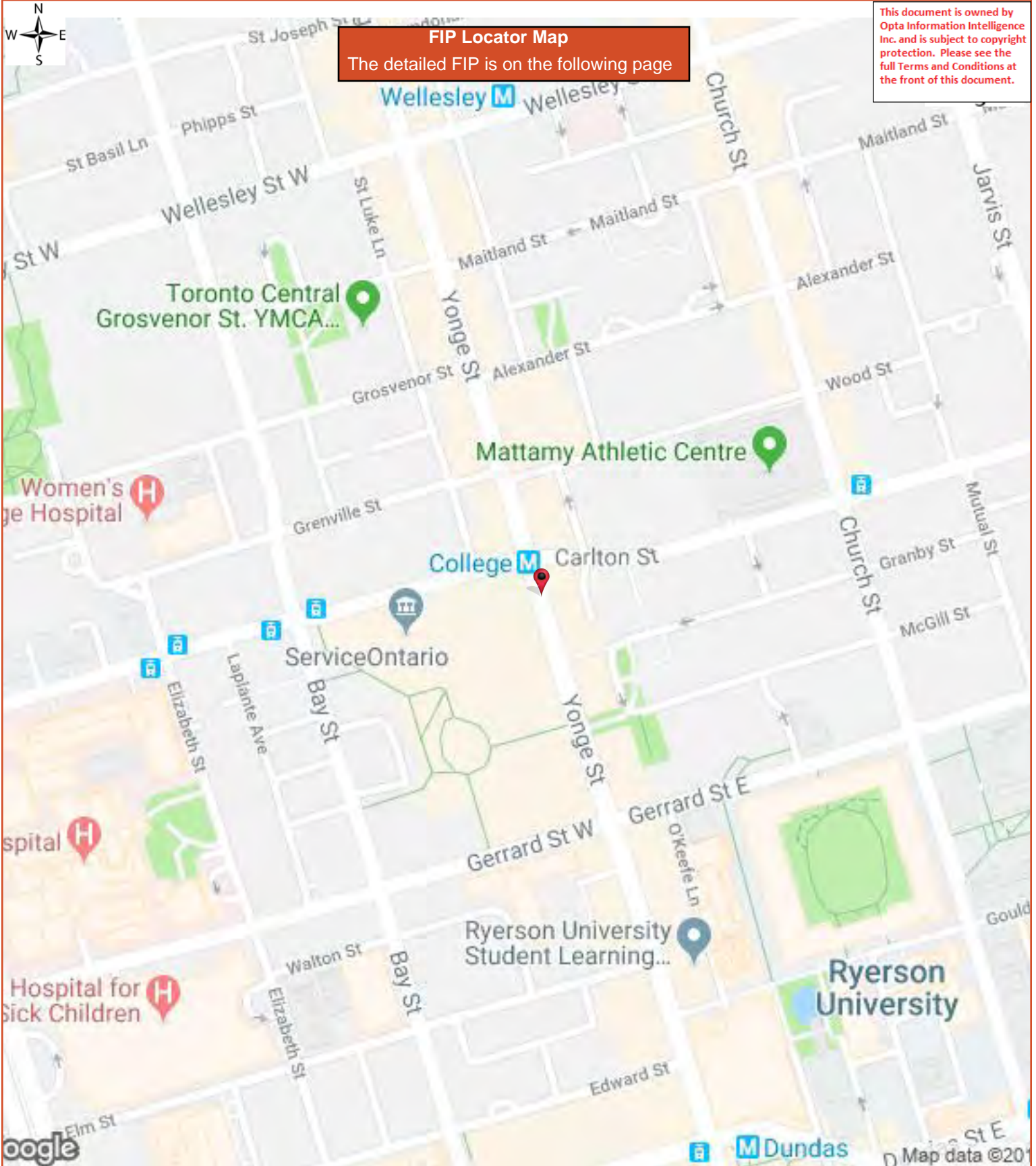






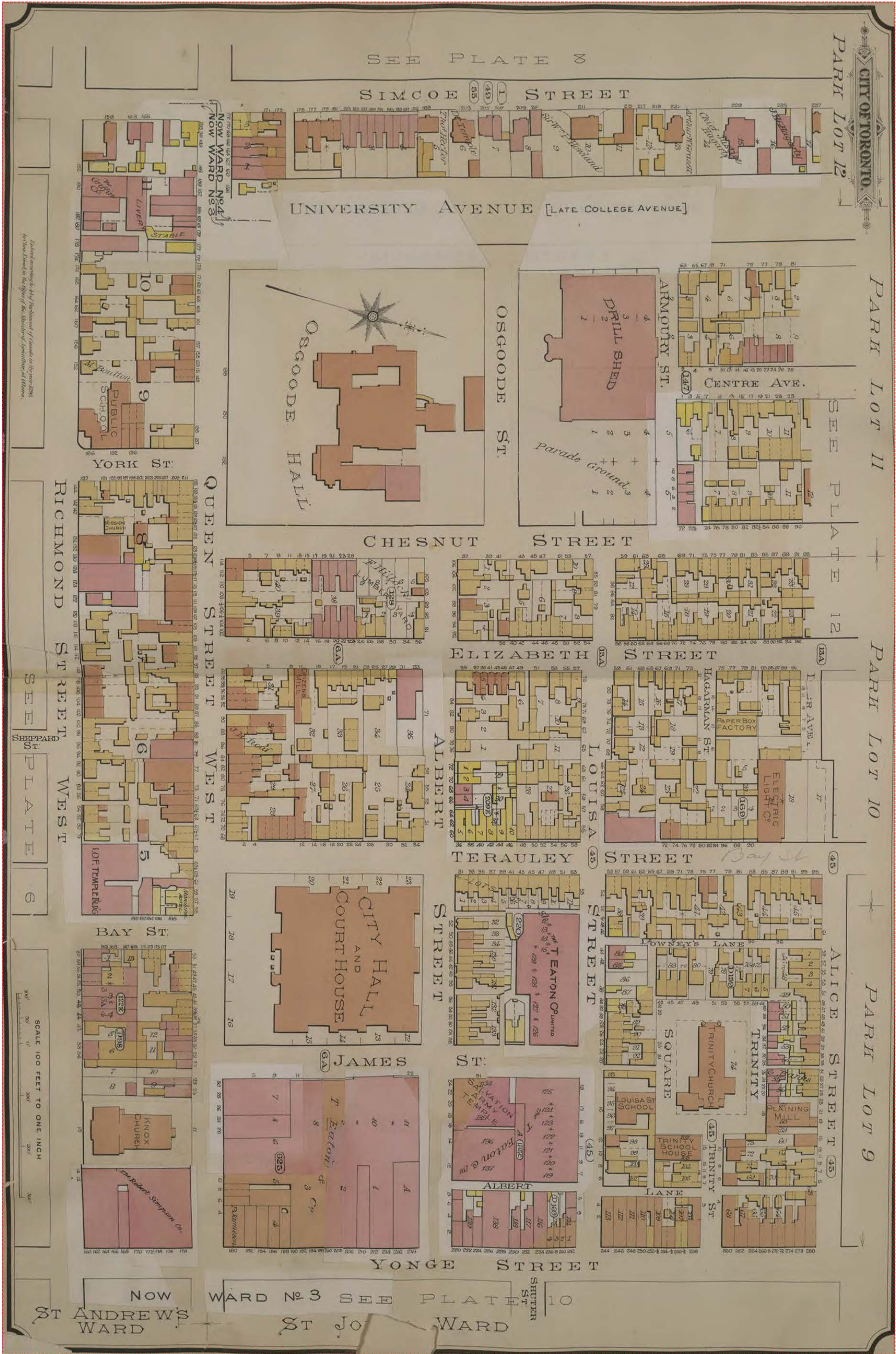




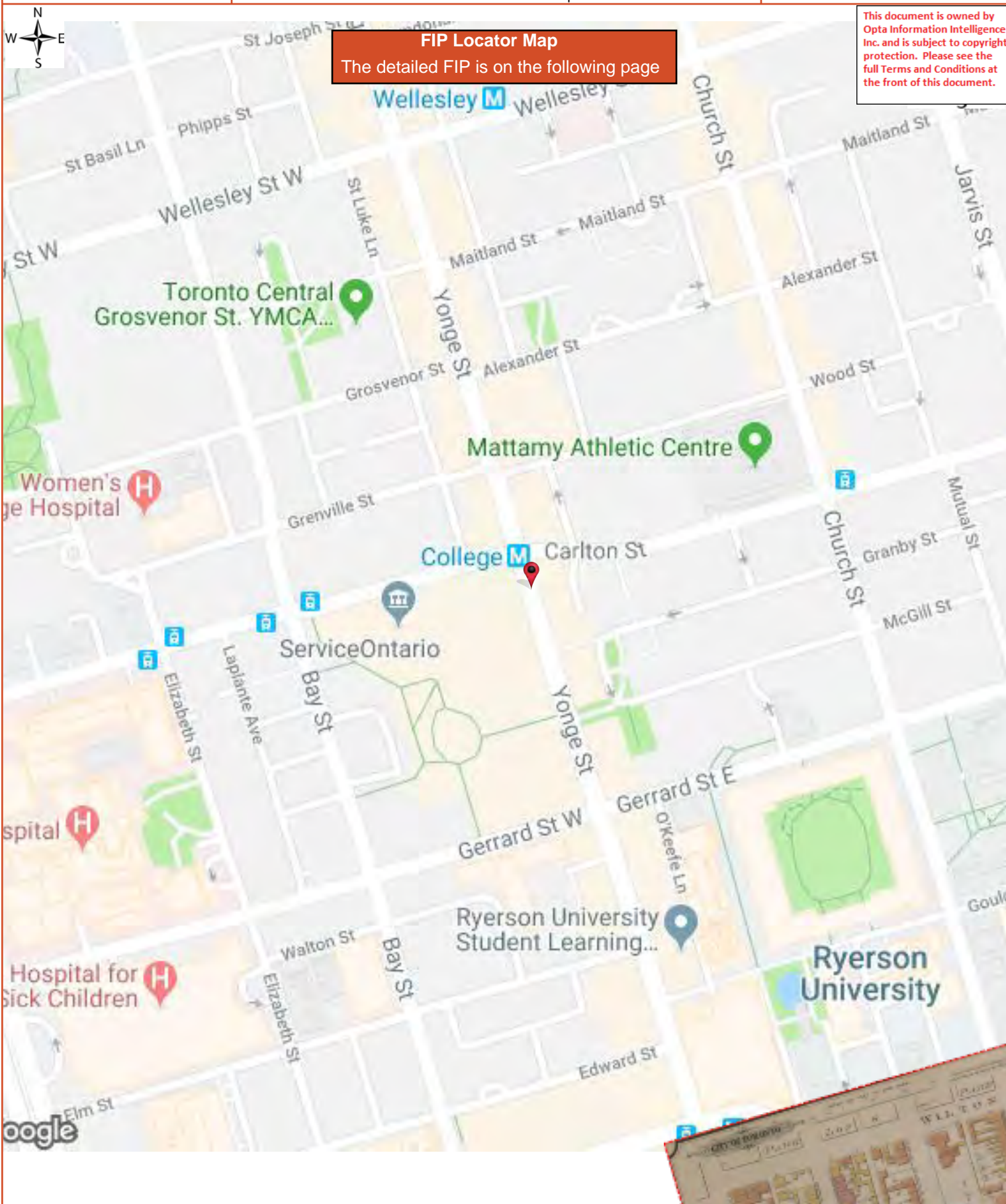


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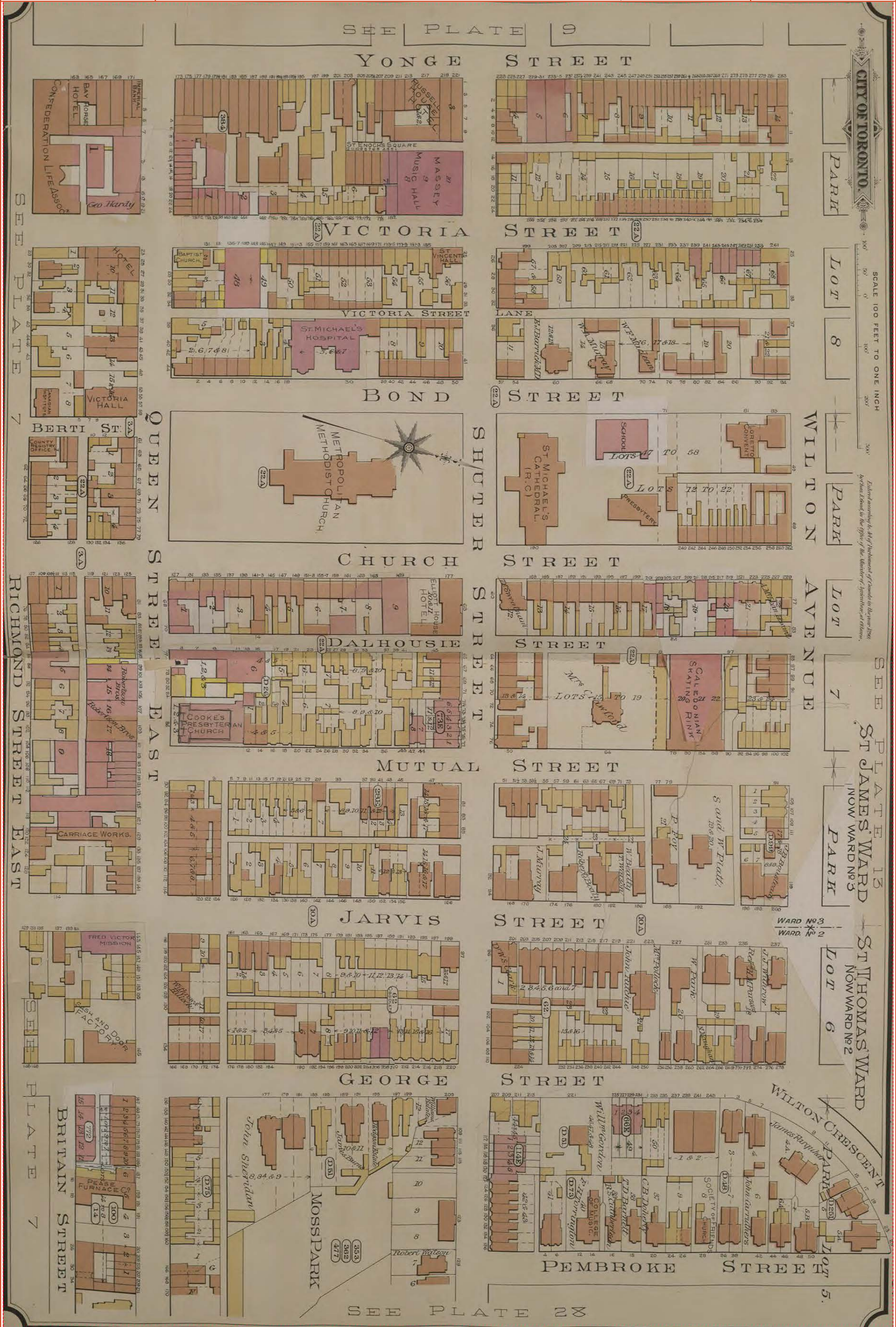






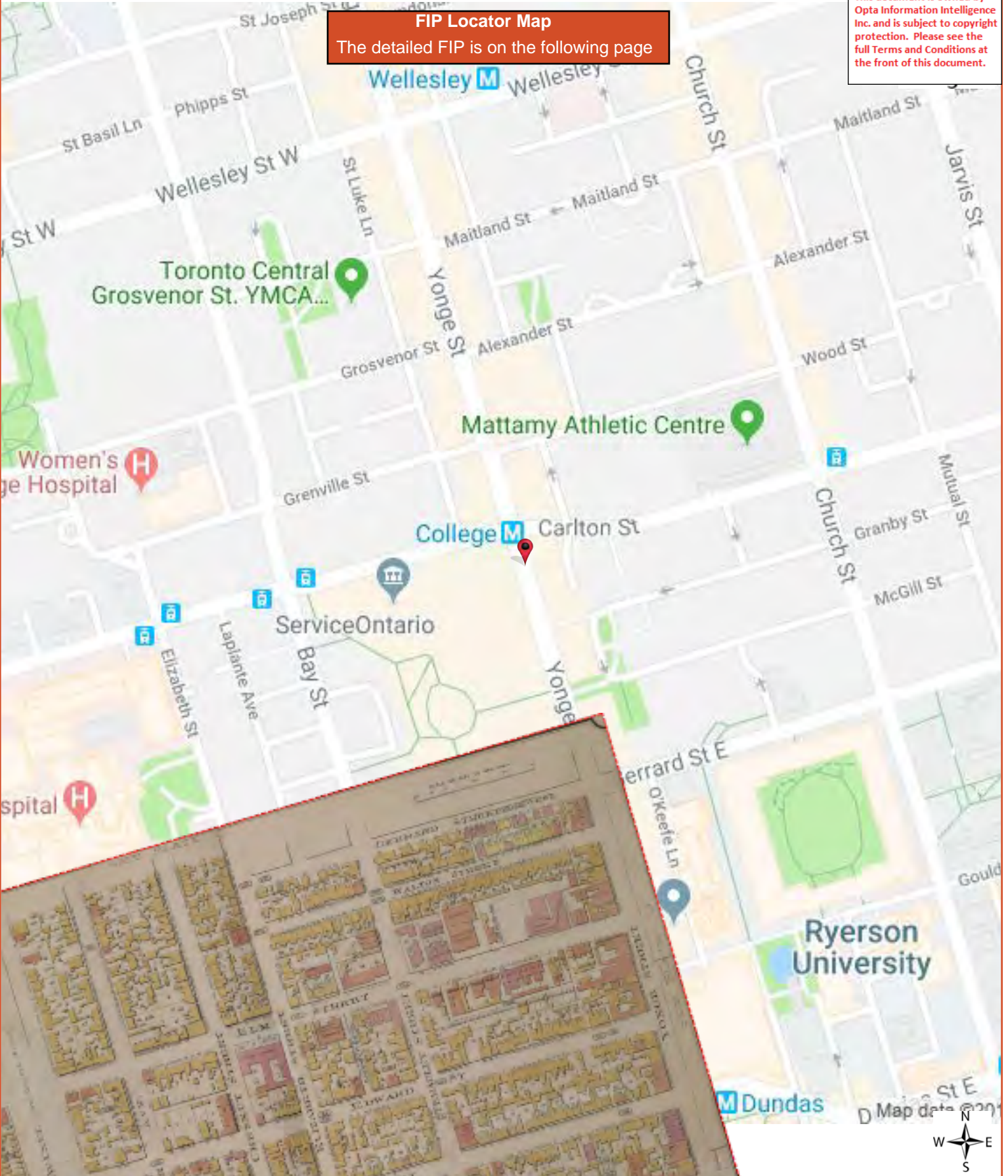




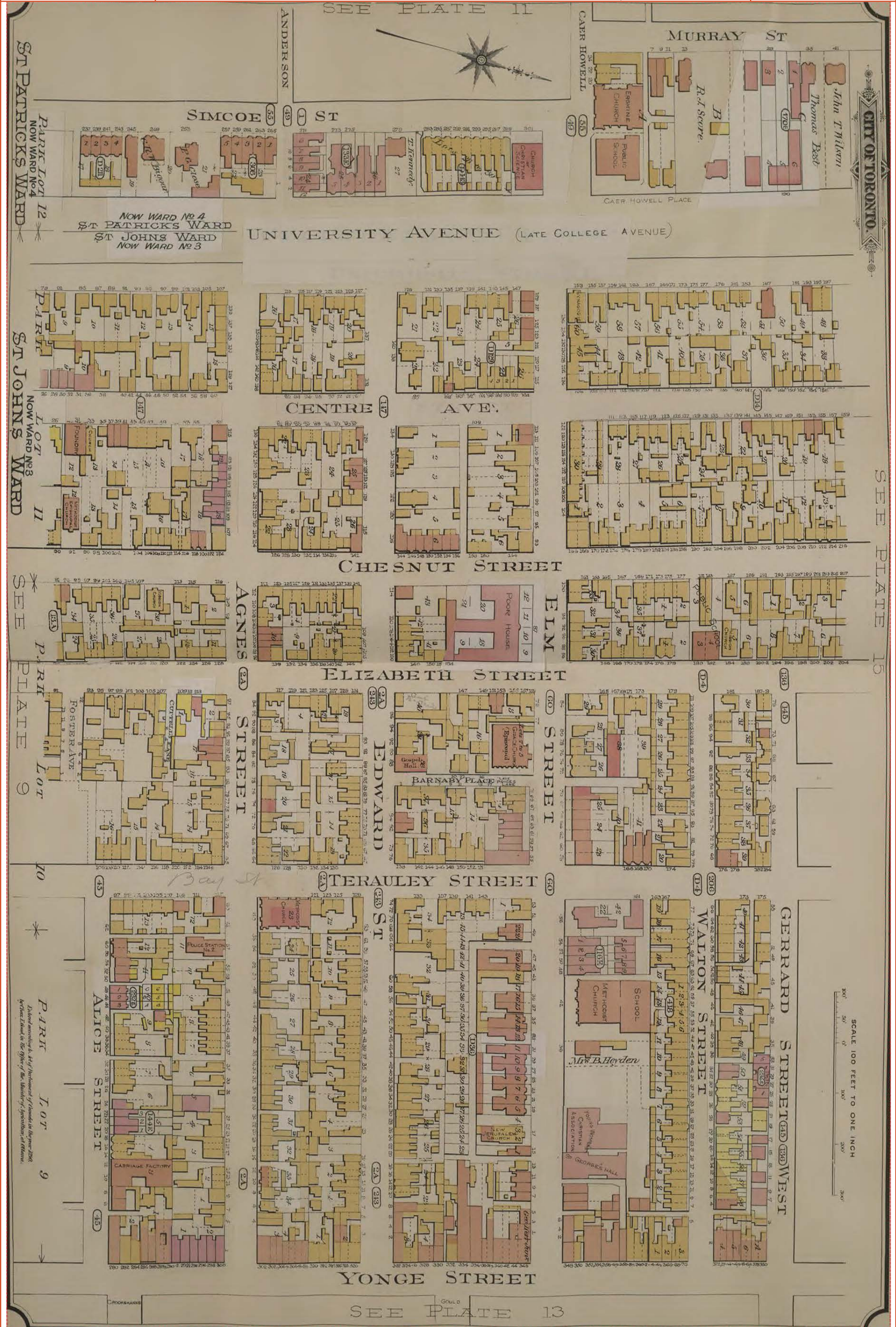




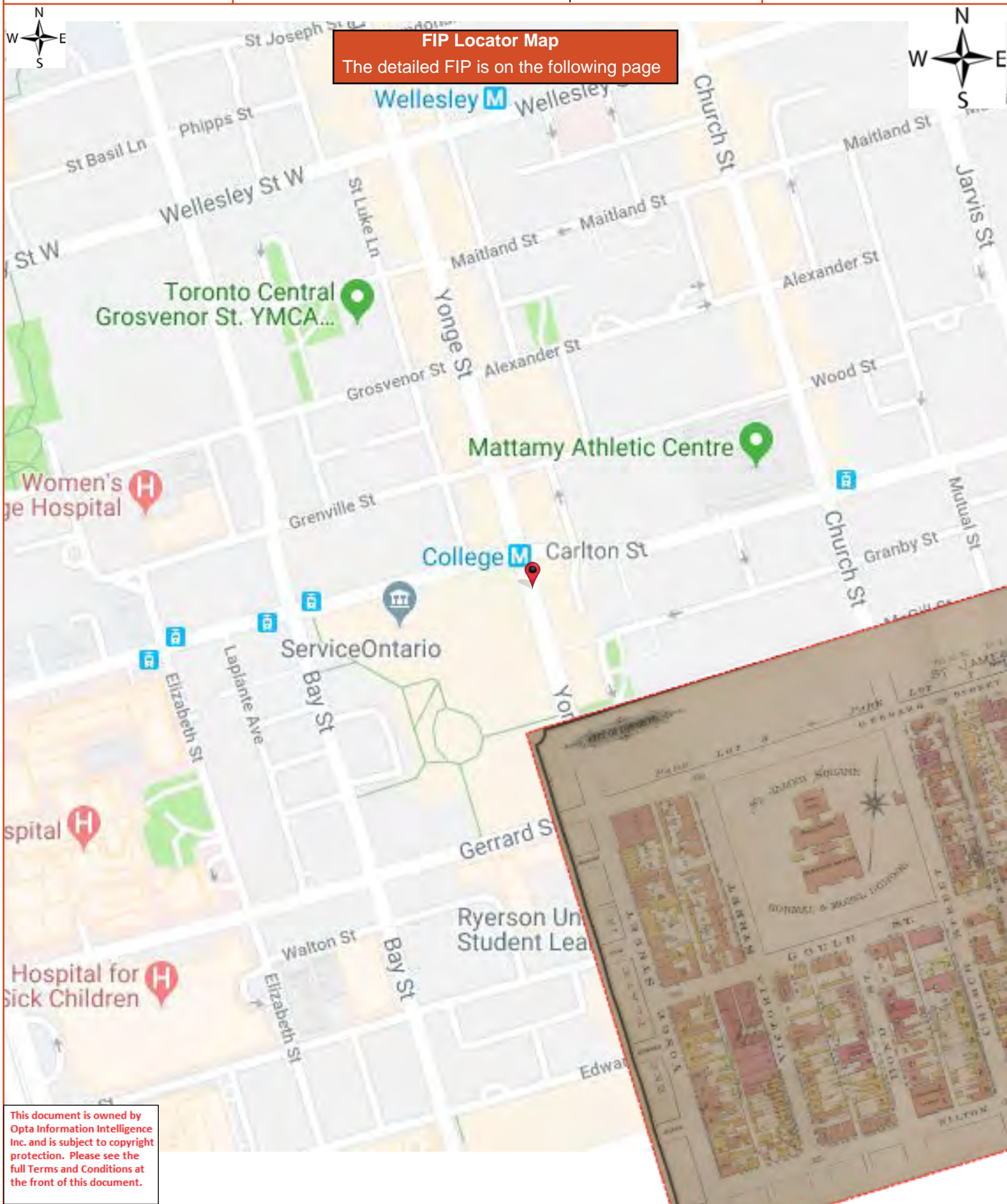
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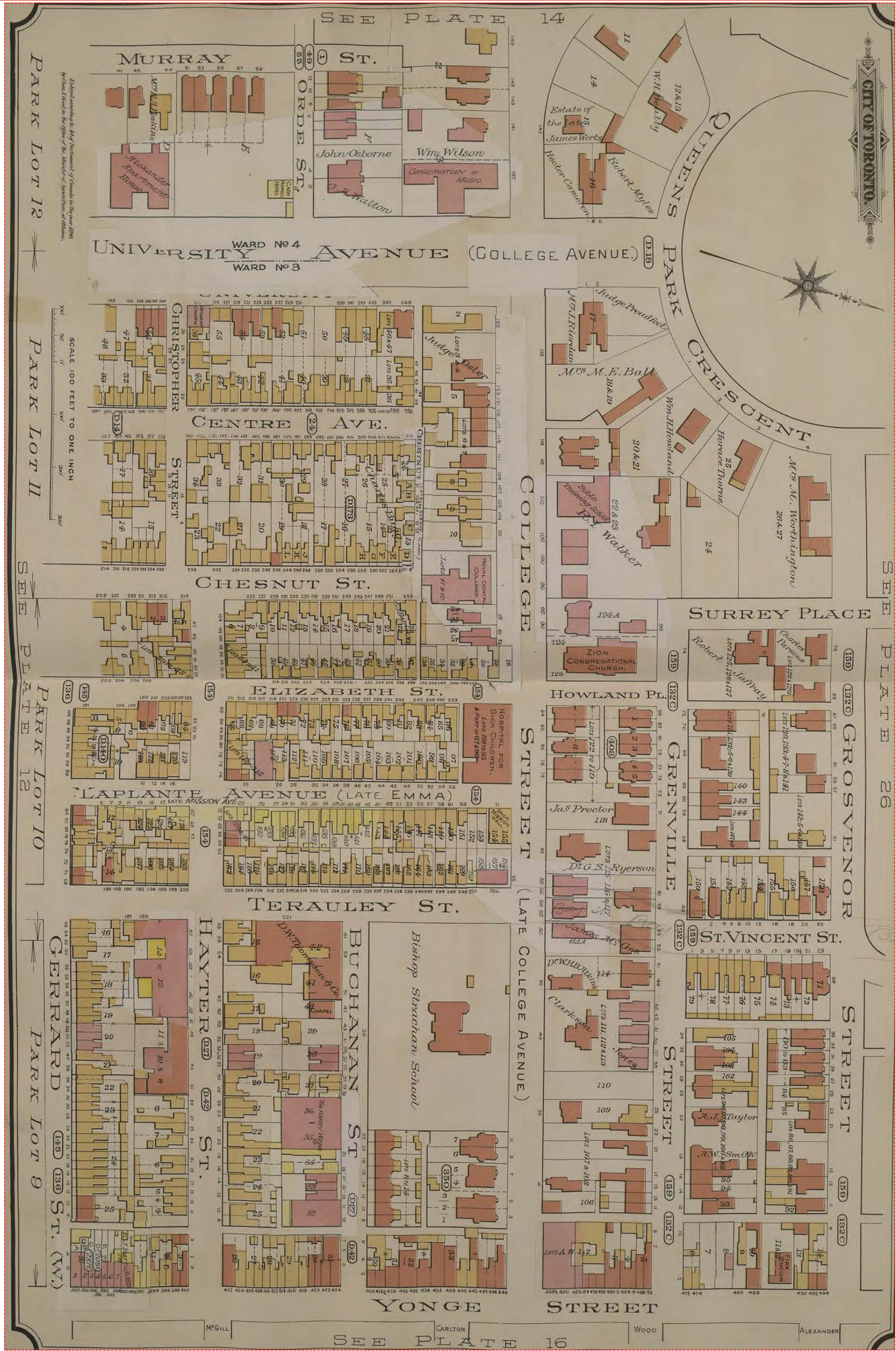








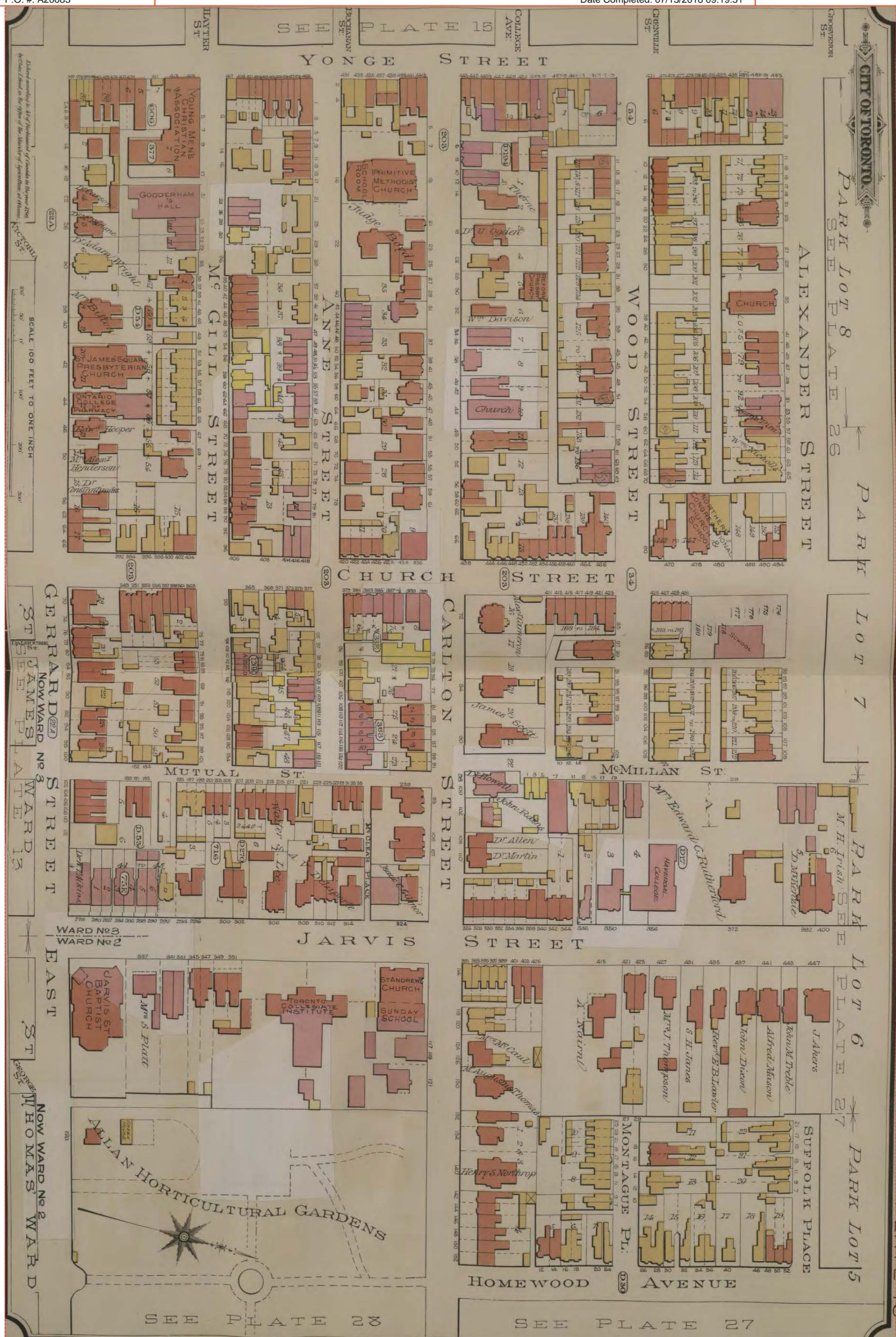




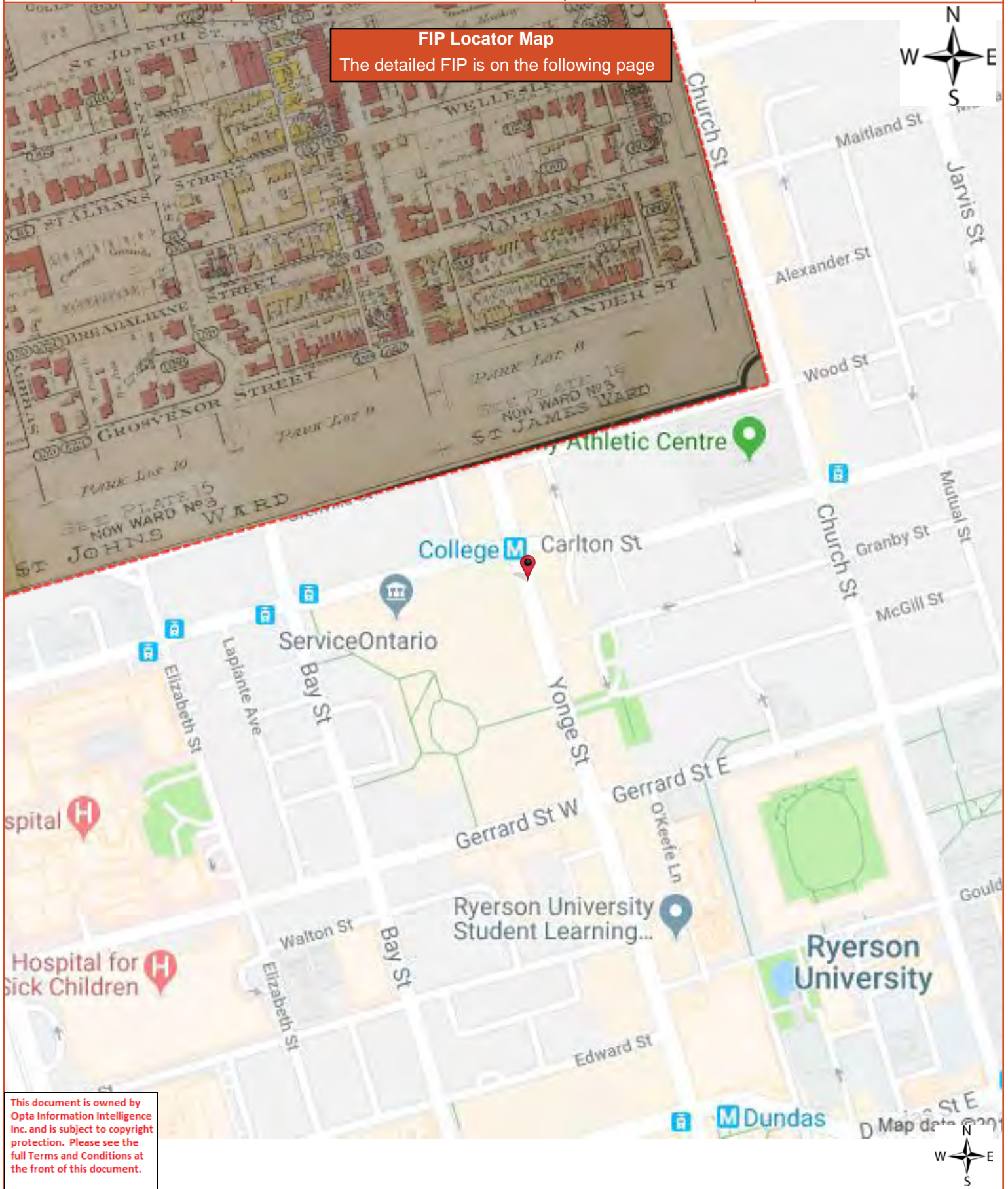








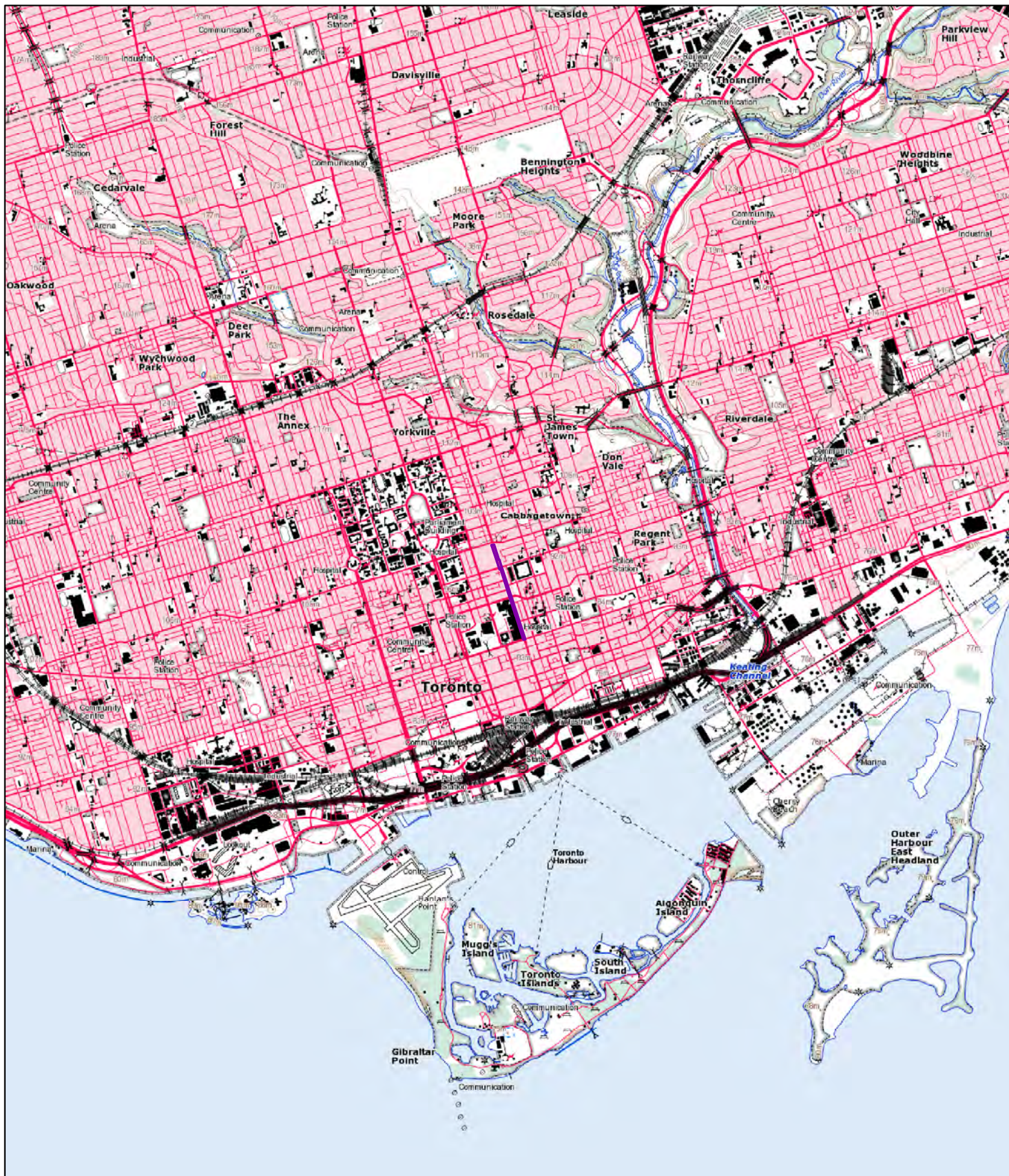












# Topographic Map



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Order No: 20180710089



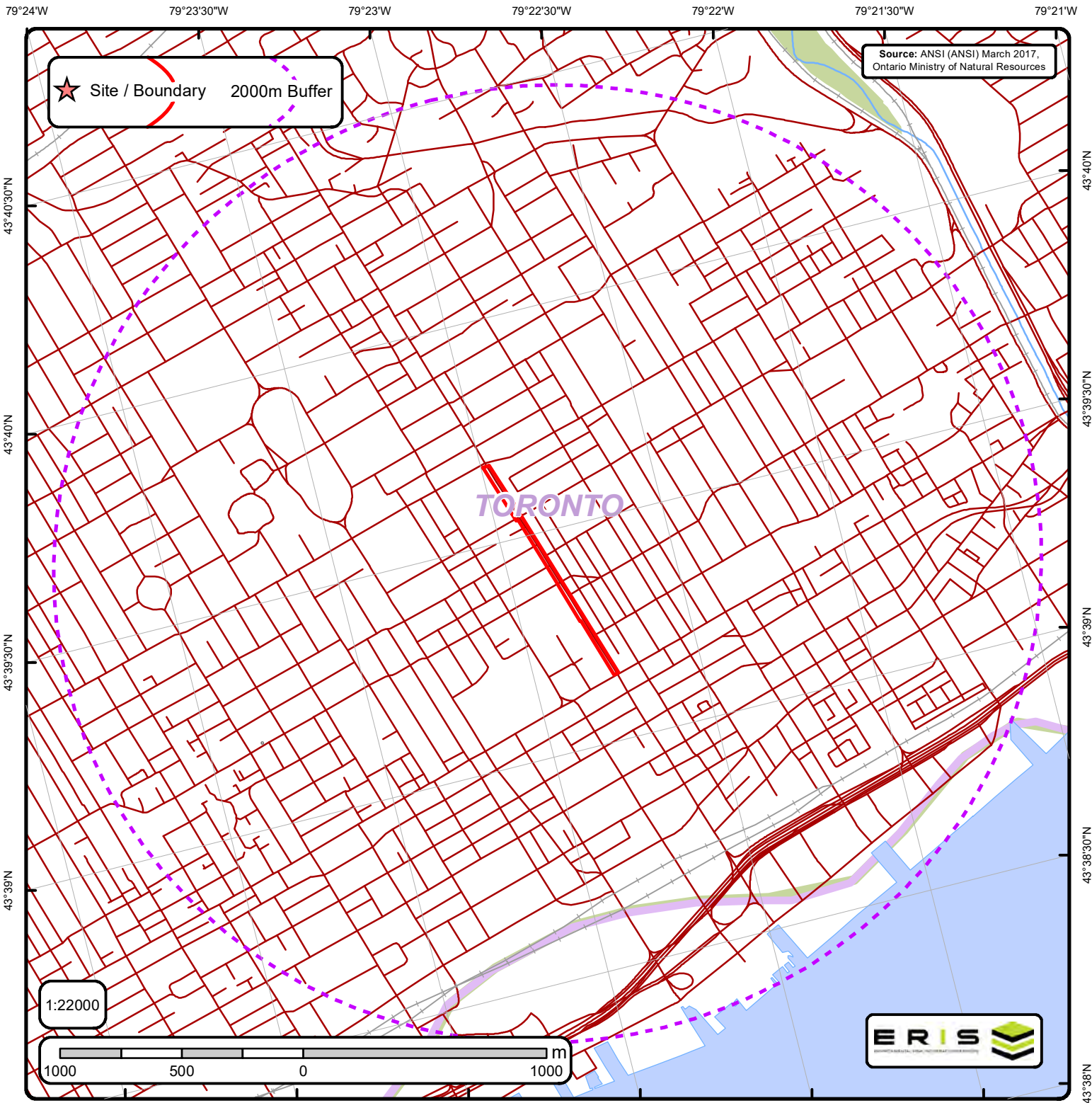
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Legend available at [http://wmsmir.cits.rncan.gc.ca/index.html/pub/toporama/doc/Toporama\\_legend\\_carto\\_specs\\_en.pdf](http://wmsmir.cits.rncan.gc.ca/index.html/pub/toporama/doc/Toporama_legend_carto_specs_en.pdf)

Data source: Toporama (1:50K) by Natural Resource Canada. Publication date: 2013-07-19

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## Area of Natural & Scientific Interest (ANSI) Order No. 20180710089

|       |                    |   |                          |   |                |   |                        |
|-------|--------------------|---|--------------------------|---|----------------|---|------------------------|
| +     | Spot Height        | — | Transportation Structure | — | Contour Line   | ■ | Wooded Area            |
| ■     | Building Point     | — | Utility Line             | ■ | Pit or Quarry  | ■ | Conservation Authority |
| ⚡     | Towers             | — | Water Structure          | ■ | Waterbody      | ■ | Conservation Area      |
| ●     | Utility Site Point | — | Drainage Line Feature    | ■ | Wetlands       | ■ | Municipal Park         |
| —     | Misc. Line         | — | River or Stream          | ■ | Concession     | ■ | Provincial Park        |
| —     | Railroads          | ■ | Airports                 | ■ | Lots           | ■ | National Park          |
| —     | Roads              | ■ | Tanks                    | ■ | Municipality   | ■ | Nature Reserve         |
| - - - | Trail              | ■ | Building to Scale        | ■ | Land Ownership | ■ | ANSI Area              |





# ANSI Report

ANSI Units Found within 2000 m of  
100 Main Street, Toronto, ON



No ANSI units found within search area.



## **Appendix 5      Qualifications of the Assessors**

CV – AJ Antonacci, EIT

CV – Min Song, P.Eng.



## A.J. ANTONACCI B.Eng., EIT

Mr. A.J. Antonacci has been employed with Englobe Corp. since January 2012, starting out in our North Bay, Ontario office. Mr. Antonacci is currently a member of the Toronto office where he works as a Project Manager and Environmental Assessor. He has completed several environmental assessment and monitoring projects, as well as designated substances surveys and underground storage tank (UST) removal projects. Mr. Antonacci has completed various due diligence assessments in Ontario for property management groups, utilities, law firms and investment banks for the purpose of financing, insolvencies, mergers and acquisitions.

Mr. Antonacci's responsibilities include research, historical records review, identification of potential contaminants of concern, site investigations and inspections, environmental soil and groundwater sampling, interpretation of laboratory results, and report preparation.

Mr. Antonacci is a registered member of the Professional Engineers Ontario (PEO) since 2012 (Licence No. 100181558). His technical expertise includes soil and groundwater environmental monitoring and delineation.

## PROFESSIONAL EXPERIENCE

### ENVIRONMENTAL SITE ASSESSMENTS AND SITE REMEDIATION

#### **Petro-Canada Lubricants Inc., Annual Environmental Landfarm Monitoring Program, Mississauga, Ontario (2016 – Present)**

Project Manager. Since 2014, Englobe has completed environmental engineering services which involved collecting soil and groundwater data at the landfarm site, in order to monitor changes in conditions and to ensure historical operations have not adversely affected the property or neighbouring properties. Mr. Antonacci has been involved with this project as a field tech and EIT, since 2014, but took over the PM role in 2016. Each year, the scope of work includes a review of historical work plans and reports, preparation of landfarm work plan to be submitted to the Client and the Ministry of the Environment, Conservation, and Parks (MOE) for approval, conducting soil and groundwater sampling and analysis activities, interpretation of results and identifying potential trends, and preparation of interim and annual reports (also to be submitted to the Client and MOE). Responsible for the bi-annual (formerly quarterly) soil and groundwater sampling programs implemented at the site. Waste sludge was historically spread across fields at a landfarm facility along with nutrients under a Compliance Approval issued by the MOE. Englobe was retained to monitor the environmental quality of the soils on the fields and the groundwater in the vicinity of the site and provide reports and recommendations about operations should there be any issues.

### YEARS OF EXPERIENCE

7 years

### PROFESSION

Engineering Intern (EIT) /  
Environmental Assessor

### AREA OF EXPERTISE

Factual and Intrusive Investigative  
Work for Environmental Site  
Assessments

### EDUCATION

2011 B.Eng., Civil Engineering:  
Water / Environmental,  
McMaster University

### PROFESSIONAL DEVELOPMENT

- 2018 Standard Operating Procedures for Phase II Environmental Assessments – Soil and Groundwater Sampling (Englobe)
- 2017 CN Safety for Canadian Contractors
- 2017 GO / METROLINX Contractor Orientation
- 2017 IHSA Working at Heights
- 2016 IHSA WHMIS Training
- 2015 40-Hour HAZWOPER Safety Training
- 2014 IHSA Confined Space Entry
- 2014 IHSA Asbestos Work in Construction Hazard Awareness
- 2014 IHSA Traffic Control – Temporary Work Zones Training
- 2014 LVM Mould Awareness Training
- 2013 Worker Health and Safety Awareness Training

### PROFESSIONAL ASSOCIATIONS

EIT with the Professional Engineers Ontario, since 2012 (License No. 100181558)

### LANGUAGES

English



**Parkland Fuel Corporation, Former Cargo Fuel Retain Outlet Groundwater Remediation, Lindsay, ON (August 2016 to Present)**

Environmental Engineer. The presence of non-aqueous phase liquid (NAPL) PHC product was identified and delineated in the groundwater at the Site. Based on these reports Englobe, completed a remedial option evaluation, which identified that implementation of Multi-Phase Extraction (MPE) as a feasible option to address the groundwater contaminant plume, the residual NAPL present and remnant soil impacts at the Site. A.J.'s responsibilities include conducting routine monitoring events and interpretation data and analytical results, among other tasks.

**Toronto Transit Commission (TTC), Geotechnical and Environmental Triennial Engineering Consulting Services, Toronto, Ontario (October 2015 to Present)**

Environmental Technologist and Junior Environmental Engineer/Project Manager responsible for identification of potential contaminants of concern, site investigations and inspections, environmental soil and groundwater sampling, interpretation of laboratory results, and report preparation. The scope of work includes environmental services and expert advice for the due diligence process to support the infrastructure projects including acquisitions, disposition of properties, renovations and construction activities at TTC properties.

Mr. Antonacci has been involved in the following call ups under this SOA:

- 🔩 B4-29 Roncesvalles East Retaining Wall Replacement Geotechnical Test Pit Investigation (April-July 2015) (Project 02)
- 🔩 S5-71 Davisville Yard Trail Track Fence Replacement Geotechnical Investigation (April-November 2015) (Project 06)
- 🔩 U3-12 Museum Subway Station Geotechnical Investigation (May-October 2015) (Project 07)
- 🔩 FE85-6 Scarborough Subway Geotechnical Investigation (May 2015-March 2016) (Project 08)
- 🔩 F7-36 Queensway Bus Garage Scanning and Locates (June-July 2015) (Project 10)
- 🔩 DTRL-1 Downtown Relief Line - Pape Avenue Geotechnical Investigation (June-December 2015) (Project 12)
- 🔩 SH59-1 Leslie Station Geotechnical Investigation (September 2015-January 2016) (Project 14)
- 🔩 MN1-1 McNicoll Bus Garage - Chinese Baptist Church Well
- 🔩 Decommissioning (August-November 2015) (Project 15)
- 🔩 F7-36 Queensway Bus Garage UST Removal (December 2015-February 2017) (Project 27)
- 🔩 F60-252 Birchmount Bus Garage UST Removal (December 2015-October 2016) (Project 28)
- 🔩 V60-7 Arrow Road Bus Garage Soil Sampling and Analysis (July 2016) (Project 30)
- 🔩 F7-36 Queensway Bus Garage Soil Sampling and Analysis (October 2016) (Project 38)
- 🔩 Y17-32 Finch Station Soil Sampling and Analysis (November 2016) (Project 39)
- 🔩 V60-9 Arrow Road Bus Garage, Env. Sampling (January 2017-February 2017) (Project 1)
- 🔩 A45-13 Dupont station, Env. Sampling (June 2017-August 2017) (Project 8)
- 🔩 Y17-25 Finch Station West Parking, Env. Sampling (September 2017-June 2018) (Project 11)
- 🔩 X60-3 Alliance Avenue, Geo & Pavements (May 2018-June 2018) (Project 17)
- 🔩 Y7-8 Shappard Station, Geo, Pavements & Sewer Investigation (May 2018-August 2018) (Project 18)
- 🔩 S5-59 Davisville Carhouse, Env. Sampling and Soil Disposal (May 2018) (Project 19)
- 🔩 V60-10 Arrow Road Bus Garage, Env. Sampling (October 2018-November 2018) (Project 26)



**Metrolinx, Environmental and Geotechnical Services Standing Offer on an “As and When Required” Basis, Toronto, Ontario (November 2013 to Present)**

Environmental Technologist and Junior Environmental Engineer responsible for identification of potential contaminants of concern, site investigations and inspections, environmental soil and groundwater sampling, interpretation of laboratory results, and report preparation. The scope of work includes environmental services and expert advice for the due diligence process to support the infrastructure projects including acquisitions, disposition of properties, renovations and construction activities of Metrolinx. A.J. has been involved in the following call ups under this SOA:

- 🔗 Phase I ESA at Various Locations in Ontario (34 Fern Ave & 44-46 King St; 45-47, 49 Church St & 32 Fern Ave; Denison Rd Properties & Denison Rd South Side; and Sam Frustaglio Drive) (May 2017)
- 🔗 Union Station Soil Resistivity Testing (May-June 2014) (Project 002)
- 🔗 Phase II ESA, 91 Park Street East, Mississauga, ON (March-September 2014) (Project 005)
- 🔗 Phase I and II ESAs, Port Credit GO Station, Mississauga, ON (August-November 2014) (Project 007)
- 🔗 Geo-Environmental Investigation, Bala Subdivision.(M 1.6-1.95), Toronto, ON (December 2014-March 2016) (Project 013)
- 🔗 Environmental Investigation, 115 Bethridge Road, Toronto, ON (March-August 2015) (Project 018)
- 🔗 Phase II ESA and Supplemental Environmental Work, CANPA, Toronto, ON (June 2015-current) (Project 019)
- 🔗 Phase I & II ESA, Data Gap Analysis and Groundwater Investigation, 12 Industrial Parkway South, Aurora, ON (March-April 2016) (Project 030)
- 🔗 Geo-Environmental Investigation, Brampton GO Station, Brampton, ON (September-November 2016) (Project 035)
- 🔗 Phase I ESA, Oriole GO Station, Toronto, ON (January-February 2017) (Project 040)
- 🔗 Phase I ESA, King Street and Fern Ave, Toronto, ON (June-July 2017) (Project 01)
- 🔗 Phase I ESA, Church Street and Fern Ave, Toronto, ON (June-July 2017) (Project 02)
- 🔗 Phase I ESA, Denison Road, Toronto, ON (June-July 2017) (Project 03)
- 🔗 Phase I ESA, Denison Road and Sam Frustaglio Drive, Toronto, ON (June-July 2017) (Project 04)
- 🔗 Spill Response, Stouffville Corridor, Toronto, ON (October-November 2018) (Project 203)
- 🔗 Soil and Groundwater Investigation, Stouffville Corridor, Toronto, ON (November 2018 - Present) (Project 204)

**Public Works and Government Services Ontario (PWGSC), Supplemental Phase II & III Environmental Site Assessments and Other Environmental Investigations, Various Locations in Ontario (August 2015 to March 2018)**

Field Supervisor and Project Manager/Engineer Assistant responsible for the management of assignments for PWGSC where Englobe completed Supplemental Phase II & III ESAs at sites across Ontario in accordance with the Government of Canada’s Federal Contaminated Sites Action Plan (FCSAP). A.J. was responsible for fieldwork, interpretation of analytical results from the laboratory, preparation of reports, and preparation of the NCSCS scoring sheets. He contributed in the discussions for the next steps to be taken at each site through meetings with the client, and prepared the recommendation letters sent to the client.

**Greater Toronto Airports Authority (GTAA), Quality Control Testing and Field Inspection Services during the Construction of Taxiway Yankee and Taxiway Whiskey at TPIA, 311 Convair Drive, Toronto, ON L5P 1B2 (2016)**

Environmental Field Assessor. Englobe provided full-time inspection to ensure compliance with the contract specifications and requirements, and compiled QA Laboratory and Field Testing Monthly Summary Reports. Englobe conducted visits of proposed aggregate sources to obtain samples of subbase materials for approval to verify if they meet the GTAA Specifications; sampled and tested cut and fill materials. QA tests included Marshall Compliance checks, concrete cylinder compressive strength test, modified Proctor density curve, granular sub-base material grain size analysis test. Englobe also conducted soil sampling activities during test pits excavation, for disposal options, and prepared Soil Sampling and Environmental Analysis Reports.



**City of Hamilton, Jones Road Phase I Environmental Site Assessment, Hamilton, Ontario (September 2017)**

Engineering Assistant. The purpose of the Phase I ESA was to identify actual or potential environmental concerns on the site in relation to current or previous on and off-site uses, based on available information. This was completed due diligence purposes prior to potential purchase and development of the site. The Phase I ESA included historical review and study of files, interviews with site owner and representative, site area and geology determination via on-line databases, topographical and physiography mapping and references, water wall records, site reconnaissance and identification of areas of natural significance.

**Waterfront Toronto, Lake Ontario Park, Martin Goodman Trail Phase I and II Environmental Site Assessments and Screening Level Human Health Risk Assessment, Toronto, Ontario (June 2015-May 2016)**

Environmental Technologist responsible for historical research, site visit and interviews, preparation of Phase I and II ESA reports; requesting, utility locates. The project also involved borehole drilling and sampling; Combustible Soil Vapour (CSV) headspace testing; analytical laboratory testing; preparation of subsurface investigation report; and Human Health Risk Assessment. The site is irregular in shape and is approximately 31.3 hectares in area. The Site is located to the south of Unwin Avenue and west of Leslie Street, in an area generally developed for mixed property uses (parkland, community, commercial and industrial).

**Crosslinx Transit Solutions, Eglinton Crosstown LRT Project – Segment 5, Ontario (January 2016 to April 2016)**

Field Supervisor responsible for management of excess soil from various sites along the stretch of the project, ensuring the soil is temporarily stored on-site and disposed of off-site properly. This project involves supplemental geotechnical investigation for Segment 5 of the Eglinton Crosstown LRT, which consists of the construction of a 19 kilometer LRT line and 25 stations in Toronto. The stations for Segment 5 include Don Mills Station and Kennedy Station (Tunnelling and Cut & Cover). Field work includes borehole advancement via PQ coring, Pressuremeter Tests (PMT), Standard Penetration Tests (SPT), Vibration Wire Piezometer Installations, FWD testing and Shear wave velocity measurements, report preparation, traffic management and disposal of waste.

**Crosslinx Transit Solutions, Eglinton Crosstown LRT Project – Segment 4 Ontario (December 2015 to September 2016)**

Field Supervisor responsible for management of excess soil from various sites along the stretch of the project, ensuring the soil is temporarily stored on-site and disposed of off-site properly. This project involved supplemental geotechnical investigations for Segment 4 of this Eglinton Crosstown LRT project, which consisted of the construction of a 19 kilometer LRT line and 25 stations in Toronto for Metrolinx and Infrastructure Ontario. The stations for Segment 4 include Laird Station; Bayview Station; Avenue Station; and Oakwood Station. The deliverables for this assignment include a Quality Assurance Plan, Health and Safety Plan, Environmental Plan, Schedule and Geotechnical reports for Oakwood, Avenue, Bayview and Laird Stations. The field work included standard borehole advancement (with SPT testing), PQ coring, Pressuremeter Tests and geophysical survey analysis (both from the surface and down hole) including reports in letter and tabulated formats. Work also included traffic management and disposal of waste.

**Crosslinx Transit Solutions, Eglinton Crosstown LRT Project – Segment 2, Ontario (December 2015 to October 2016)**

Field Supervisor responsible for management of excess soil from various sites along the stretch of the project, ensuring the soil is temporarily stored on-site and disposed of off-site properly. This project involved supplemental geotechnical investigations for Segment 2 of this Eglinton Crosstown Light Rail Transit (ECLRT) project, which consisted of the construction of a 19 kilometer LRT line and 25 stations in Toronto for Metrolinx and Infrastructure Ontario. The stations for Segment 2 include Mount Pleasant Station, Caledonia Station, Dufferin Station, Bathurst Station and Chaplin Station. Field work included standard borehole advancement (with SPT testing), PQ coring, Pressuremeter Tests and geophysical survey analysis (both from the surface and down hole) including reports in letter and tabulated formats, traffic management and disposal of waste generated as part of the work.



**Waterfront Toronto, Environmental Services, Confidential Location (July 2015 to April 2016)**

Field Supervisor and Project Manager/Engineer Assistant responsible for the management of environmental services for a lakefront property intended to be developed as a park with pedestrian and recreational use trails. Historically the site was created using lakefill and therefore the soils at the site are of unknown environmental quality. Englobe was retained to investigate the quality of the soil and carry out a risk assessment based on the results, which included the advancement of eighty (80) boreholes and recommendations to mitigate potential risks to the site's users.

**Toronto Transit Commission, Monitoring of Groundwater Treatment Facilities, Toronto, Ontario (January 2014 to December 2015)**

Environmental Technologist responsible for site visits, conducting flow-meter readings, inspection of the treatment facilities and its equipment, reporting of the condition of the equipment, coordinating with the client, preparing inspection reports. Englobe was retained by Toronto Transit Commission to complete monitoring over a 3-year period at the Birchmount Garage and Danforth Garage to ensure compliance with hydrogeological and geo-environmental requirements, producing reports, and carrying out water analyses, flow meter readings, and various inspections, including equipment condition inspections. Englobe operated and maintained groundwater treatment systems and associated equipment at the facilities; carried out record keeping and monitoring requirements based on the applicable legislative, hydrogeological and geo-environmental requirements; prepared reports outlining inspections, monitoring, results of analytical testing, system maintenance, equipment condition and performance, etc.; and conducted repairs to the Groundwater Treatment Facilities and associated equipment.

**Bell Mobility, Phase I and II Environmental Site Assessments (ESAs), Various Locations in Ontario (2013 - 2015)**

Field Supervisor and Project Manager/Engineer Assistant responsible for the management of an assignment for Bell where Englobe completed six (6) Phase I ESAs and two (2) Phase II ESAs at sites across Ontario. These studies were conducted in general accordance with the principles of the Canadian Standards Association (CSA) Z768-01 (R2012).

**Callander Bay Developments Limited, Record of Site Condition, Phase V Osprey Links Development, Callander Bay, Ontario (March 2012 to March 2015)**

Field Supervisor and Project Manager Assistant for Phase I and II ESA and remedial activities at proposed residential development on the north shore of Callander Bay. During the Phase I ESA, discovered that Site was former wood mill, developed rationale for intrusive investigation, Phase II ESA. During the Phase II ESA, discovered petroleum hydrocarbon exceedance of MOE criteria. Following legal separation of property, submitted a Record of Site Condition for property not impacted. Englobe carried out remedial operations to bring the impacted site to within the MOE criteria in order to file for a Record of Site Condition and prepared Phase I ESA and Phase II ESA reports for both properties in accordance with Ontario Regulation 153/04 as amended. As part of the construction of the proposed 18 lot residential subdivision, Englobe was retained by Callander Bay Developments, as the prime environmental consultant. Further to Phase I ESA and II work on a proposed 18 lot residential subdivision, an area of impacted soil and groundwater was identified. The impacted area was remediated through soil removal and the operation of an on-site pump and treat water system. The success of the operation was monitored through periodic soil and groundwater sampling on an ongoing basis with comparison to the MOE Site Condition Standards. Based upon the analytical data, the operations were deemed to be successful in returning the impacted area of the property to an acceptable environmental condition.

**Defence Construction Canada (DCC), B16, CFB, North Bay, Ontario (September 2013 to March 2014)**

Field Supervisor and Project Manager Assistant for sampling program carried out at Building 16 at CFB North Bay, responsible for report development following fieldwork, retrieval of analytical results from lab and preparation of report in accordance with FCSAP Step 3 guide. Fieldwork involved the advancement of six boreholes, each installed with monitoring wells and sampling of soil and groundwater for analytical environmental analysis. Fieldwork also included sampling of groundwater from two existing monitoring wells.



**S&M Farquhar Real Estate Ltd., Phase I and II ESA and Site Remediation, 2621/2623 Farquhar's Orchards, Trout Lake Road, North Bay, Ontario (March to November 2013)**

Site Assessor/Project Manager for Phase I and II ESA and remedial activities at proposed commercial development at the east end of North Bay, Ontario and was responsible for fieldwork organization, analysis of results, and preparation of Phase I and II ESA reports, as well as Contamination Delineation and Remediation report. Phase I ESA showed that the site was former automotive garage and discovered several other areas of potential environmental concern on the Site, and the team had to develop a rationale for intrusive investigation, Phase II ESA. During Phase II ESA, the team discovered petroleum hydrocarbons and BTEX above applicable MOE Site Condition Standards and carried out dig and dump operations as well as simultaneous pump and treat operations in order to bring the Site into compliance.

As part of the construction of Farquhar's Orchards, Englobe was retained by S&M Farquhar Real Estate Ltd., as the prime environmental and geotechnical consultant. Further to the ESA Phase I and II work on an existing commercial use property, an area of impacted soil and groundwater was identified. The impacted area was remediated through soil removal and the operation of an on-site pump and treat water system. The success of the operation was monitored through periodic soil and groundwater sampling on an ongoing basis with comparison to the MOE Site Condition Standards. Based upon the analytical data, the operations were deemed to be successful in returning the impacted area of the property to an acceptable environmental condition.

**2302241 Ontario Ltd. and 1290202 Ontario Inc., Update Phase I ESA and Phase II ESA, Former Rahn Plastics Site, 619 Stanley Street, North Bay, Ontario (July 2012 to January 2013)**

Site Assessor/Project Manager Assistant responsible for fieldwork organization, analysis of results, and preparation of Phase I and II ESA reports. The property was currently and historically used for several industrial/commercial purposes, including serving as coal gasification plant to the north.

**Defence Construction Canada (DCC), Former RV Compound, CFB North Bay, Ontario (June to December 2012)**

Field Supervisor and Project Manager Assistant for sampling program carried out at former RV compound at CFB North Bay responsible for report development following fieldwork and retrieval of analytical results from lab. Fieldwork involved excavation of seventeen test pits and sampling of soil for analytical environmental analysis. Fieldwork also included sampling of groundwater from existing monitoring well and sampling of sediment and surface water from nearby creek.

**ASBESTOS/DESIGNATED SUBSTANCES SURVEYS****Public Works and Government Services Canada (PWGSC), CFB Borden, Designated Substance Survey, Building O-192, 45F Maintenance Road, Borden, Ontario (2016)**

Site Assessor/Technologist. Englobe was retained by PWGSC to complete a Designated Substances Survey (DSS) of Building O-192 located at 45F Maintenance Road at CFB Borden, Ontario. The DSS included a review of designated substances and other hazardous materials. Building O-192 is an abandoned building. The building was reported by CFB Borden to have been constructed in 1982 and is constructed as a mobile trailer. This DSS included a visual inspection of the building, sampling of suspect asbestos-containing materials (ACMs) and suspect lead paint coatings, except for those that been previously sampled by another firm in 2011, and they collected samples for ceiling tiles and floor tiles. Although the survey included accessible areas of Building O-192 the survey was limited to the inspection of areas which were readily and safely accessible and visible at the time of the field work and included destructive testing where possible.

**Public Works and Government Services Canada (PWGSC), CFB Borden, PCM Air Sampling, 68 Saskatchewan Boulevard, Borden, Ontario (2015)**

Site Assessor/Technologist. Englobe, on behalf of Real Properties Operations Detachment, Canadian Forces Base Borden, conducted air sampling for airborne fibres in indoor air, after a suspect exposure event in the residence located at 68 Saskatchewan Blvd., which occurred during renovations. It was reported to Englobe that contractors



had completed renovations and suspected that asbestos containing materials were present. The air sampling event was conducted on December 4, 2015 and samples were collected in four (4) locations within the residence, including the Children's Playroom, Kitchen, Bathroom and Bedroom. The air sampling was conducted in accordance with the U.S. National Institute Occupational Safety and Health Manual of Analytical Methods, NIOSH Method 7400.

**Conseil Scolaire Catholique Franco-Nord, Catholic Secondary School Algonquin, Algonquin Avenue, North Bay, Ontario (March to October 2013)**

Technologist. Englobe was retained to complete a geotechnical investigation and review of the wall cracking at the east entrance, north end of the École Secondaire Catholique Algonquin. The purpose of this investigation was to assess the subsurface soil and groundwater conditions in the area of the more severe cracking to determine if geotechnical conditions have had an impact on the cracking and provide recommendations to inhibit further cracking. A program was also set up to monitor crack movement. Additionally, Englobe was retained to complete an Area Specific Designated Substance Survey.

**Ontario Ministry of Transportation (MTO), Designated Substance Surveys for Various Residential Homes, North Bay, Ontario (2012)**

Site Assessor/Project Manager Assistant, responsible for conducting hazardous building material surveys for a number of residential homes in the North Bay area. A hazardous building material survey and report was completed for each property which comprised inspection, sampling, and/or confirmatory analyses to identify potential hazardous substances including: ACMs, lead-based paints, polychlorinated biphenyls (PCBs) and mercury containing electrical equipment that may be present.

**East Nipissing District Home for the Aged, Designated Substance Survey for Casselholme Home for the Aged, North Bay, Ontario (January to March 2012)**

Site Assessor/Project Manager Assistant, responsible for conducting hazardous building material surveys for a number of buildings associated with the Casselholme retirement home facility in North Bay, Ontario. A hazardous building material survey and report was completed for each property which comprised inspection, sampling, and/or confirmatory analyses to identify potential hazardous substances including: ACMs, lead-based paints, polychlorinated biphenyls (PCBs) and mercury containing electrical equipment that may be present.

## **UNDERGROUND STORAGE TANK REMOVAL**

**Toronto Transit Commission (TTC), Environmental Sampling Services for Various Underground Storage Tank Removal Projects in Toronto, Ontario (June 2016 to Present)**

Project Manager and Field Technician/Supervisor, responsible for conducting environmental sampling procedures during several underground storage tank removal projects throughout the Toronto area at TTC Bus Garage locations. AJ is responsible for preparing reports as per the Technical Standards and Safety Authority (TSSA) Environmental Management Protocol (as updated), and informing the client and property owners of obligations, given results.

**Canadian Tire Real Estate Ltd., Environmental Sampling Services for Various Underground Storage Tank Removal Projects in Southern Ontario (January 2014 to December 2015)**

Project Manager and Field Technician/Supervisor responsible for conducting environmental sampling procedures during several UST removal projects throughout northeastern Ontario. AJ has been responsible for preparing reports as per the Technical Standards and Safety Authority (TSSA) Environmental Management Protocol (as updated), and informing TSSA of findings and informing Client and property owners of obligations, given results.



**Waggs Petroleum Equipment Ltd., Environmental Sampling Services for Various Underground Storage Tank Removal Projects in Northeastern Ontario (January 2012 to January 2014)**

Project Manager and Field Technician/Supervisor, responsible for conducting environmental sampling procedures for licensed petroleum mechanics, WPEL during a number of (approximately 15) underground storage tank removal projects throughout northeastern Ontario. AJ has been responsible for preparing reports as per the Technical Standards and Safety Authority (TSSA) Environmental Management Protocol (as updated), and for informing TSSA of findings and informing Client and property owners of obligations, given results. He was also responsible for subsequent remediation programs carried out following initial analytical results.

**CAREER PATH**

|                              |   |
|------------------------------|---|
| June 15, 2015 – present      | <b>Englobe Corp., Toronto, Ontario (formerly LVM, a division of EnGlobe Corp.)</b><br>Environmental Assessor/EIT/Project Manager  |
| June 2014 – June 2015        | <b>LVM, a division of EnGlobe Corp., Toronto, Ontario (formerly LVM   JEGEL)</b><br>Environmental Assessor/EIT                    |
| January 2014 – June 2014     | <b>LVM   JEGEL, Toronto, Ontario (formerly John Emery Geotechnical Engineering Limited (JEGEL))</b><br>Environmental Assessor/EIT |
| February 2012 – January 2014 | <b>LVM   Merlex, North Bay, Ontario (formerly Merlex Engineering)</b><br>Environmental Assessor/EIT                               |

**COMPUTER SKILLS**

MS Word, MS Excel, MS Project, gINT, Adobe Acrobat, GIS mapping, HEC-Res



## MIN SONG P.Eng., QP<sub>ESA</sub>

Mr. Min Song joined Englobe in August 2016 as an environmental engineer and has 12 years of environmental consulting experience. He graduated from the University of Waterloo with a Bachelor of Applied Science (Honours Co-op) in Environmental Civil Engineering. Mr. Song is a member of Englobe's Environmental Services Group where he specializes in Phase I and Phase II ESAs as per Record of Site Condition requirements and for due diligence purposes. He is also experienced in in-situ remediation, fuel storage tank decommissioning, designated substance surveys, indoor air quality sampling, and environmental compliance auditing.

As an Environmental Engineer and Project Manager, Mr. Song is responsible for various components of project work including Phase I and II Environmental Site Assessments (ESAs), Decommissioning of Underground Storage Tanks, Site Remediation, and filing of Record of Site Conditions. For Phase I ESA's, he is the Project Manager and Site Assessor for Residential / Commercial / Industrial properties, and his duties include project coordination, research, site inspections and report preparation. For Phase II ESA's, Mr. Song's responsibilities include Technical Manager for subsurface soil and groundwater investigations for Residential / Commercial / Industrial properties, and his duties include preparing the scope of work, reviewing sampling locations, coordinating field activities with contractors, supervision of field sampling activities and report preparation.

## PROFESSIONAL EXPERIENCE

### ENVIRONMENTAL SITE ASSESSMENTS

#### **Greater Toronto Airports Authority – Phase I ESA, Phase II ESA, Designated Substance Survey, 1770 Alstep Drive, Mississauga, Ontario (October 2017 to November 2017)**

Project Manager responsible for reviewing historical and regulatory information, developing a scope of work for the Phase II ESA, providing preliminary findings to the client, and preparing technical reports. The project was completed as part of due diligence requirements for the Site. Englobe also conducted a designated substance survey to identify the presence of any hazardous building materials which may have been present within the building envelope.

#### **Bell Mobility – Phase I ESA, 33 Sites across Eastern Ontario (October 2016 to December 2016)**

Technical Manager responsible for obtaining historical and regulatory information, coordinating activities between multiple office locations, reviewing the information, providing preliminary findings to the client, and preparing technical reports. The project was completed as part of a proposed multi-asset portfolio transaction between the client and the seller. Englobe completed the Phase I ESAs which identified any potential environmental concerns in connection with current and/or historical activities at the site and surrounding areas.

### YEARS OF EXPERIENCE

12 years

### PROFESSION

Environmental Engineer/Team Lead

### AREA OF EXPERTISE

Phase I & II ESAs, Record of Site Conditions, Site Remediation, Fuel Storage Tank Decommissioning, Environmental Peer Review

### EDUCATION

2005 B.A.Sc. (Hon. Co-op),  
Environmental Civil  
Engineering, University of  
Waterloo, Canada

### PROFESSIONAL DEVELOPMENT

2018 IHSA – Basics of Supervising  
Training  
2018 Supervisor Health and Safety  
Awareness Training  
2017 Excess Soil By-Law Tool  
Webinar  
2017 High-Resolution Site  
Characterization (HRSC)  
Seminar  
2016 WHMIS Training

### PROFESSIONAL ASSOCIATIONS

Member of Professional Engineers  
Ontario since 2016 (Licence No.  
100135426)

Registered as a Qualified Person  
(QP<sub>ESA</sub>) with the Ontario Ministry of  
the Environment and Climate Change  
(MOECC)

### LANGUAGES

English (fluent), Korean  
(conversational)



**New Apostolic Church Canada – Phase I ESA, 2107 Lakeshore Road West, Oakville, Ontario (August 2016)**

Environmental Engineer responsible for data review, visual inspection, corresponding with regulatory agencies and preparing a technical report. The project was completed as part of the client's due diligence requirements for the potential divestment of the site. Englobe completed the Phase I ESA which identified any potential environmental concerns in connection with current and/or historical activities at the site and surrounding areas.

**Confidential Client – Phase II ESA, 1125 Dundas Street East, Mississauga, Ontario (June 2015)**

Technical Manager responsible for the completion of the Phase II ESA. The property is a multi-tenant commercial retail plaza. The project was conducted for transactional due diligence purposes. Duties included the request and review of third-party documentation and as-built drawings, coordinating access with tenants, preparing the technical report, and obtaining permission from the Region of Peel to apply non-potable groundwater standards for the property.

**Flato Developments Inc. – Soil Management, Phase One/Two ESA and Record of Site Condition, 9582 Markham Road, Markham, Ontario (January to July 2015)**

Site Assessor/Technical Manager responsible for the completion of the Phase One/Two ESA and the filing of the Record of Site Condition with the MOECC, and conducting soil quality testing for off-site disposal. The property is a former retail fuel outlet which was under development into a residential condominium. Duties included conducting field activities, preparing the Phase One and Two ESA reports, reviewing third-party documentation, obtaining permission from the Regional Municipality of York to apply non-potable groundwater standards for the property, and corresponding with the MOECC to ensure the successful filing of the Record of Site Condition.

**GWL Realty Advisors – Phase I ESA and Phase II ESA Portfolio, Various Locations across Canada (2013)**

Project Manager responsible for the completion of the Phase I ESA and Phase II ESA, as required. The properties were commercial parcels of land which were included as part of a portfolio. The project was completed as part of the client's internal due diligence requirements. Duties included coordinating field activities through affiliated satellite offices, periodic status correspondence with the client, and issuing Phase I ESA and Phase II ESA reports.

**Confidential Client – Phase I/II ESA/UST Decommissioning Program, 77 Quebec Avenue and 40 High Park Ave, Toronto, Ontario (2012)**

Project Manager responsible for the completion of the Phase I ESA and Phase II ESA, and UST Decommissioning. The properties are multi-tenant residential apartment buildings. The project was completed as part of the client's internal due diligence requirements. Duties included preparing the scope of work and budget, coordinating drilling and excavation activities, and preparing the Phase I ESA, Phase II ESA and UST Decommissioning reports.

**GK Interior Solutions Inc. – Phase I/II ESA, Screening-Level Risk Assessment, 416 Elizabeth Street, Guelph, Ontario (2011 to 2012)**

Site Assessor/Technical Manager responsible for the completion of the Phase I and II ESAs, and coordinating field activities in support of a Screening-Level Risk Assessment. The property is an industrial manufacturing facility. The project was completed as part of the due diligence requirements related to the potential acquisition of the Site. Duties included completing the Phase I ESA and Phase II ESA reports, conducting fieldwork in support of a Screening-Level Risk Assessment, and informing the client of the process required for filing a Record of Site Condition for the property.

**Revera Living – Phase I ESA and Phase II ESA, 4251 Dundas Street West, Toronto, Ontario (2011)**

Site Assessor/Technical Manager responsible for the completion of the Phase I and II ESA. The property is a retirement community. The project was completed as part of the client's internal due diligence requirements. Duties included conducting the site assessment, preparing a scope of work and budget for the Phase II ESA, reviewing as-built construction drawings, conducting a ground-penetrating radar survey, and preparing the Phase I ESA and Phase II ESA reports.



## **SITE REMEDIATION AND ENVIRONMENTAL MANAGEMENT**

### **EllisDon Civil Ltd. – Cherry Street Lake Fill Project, 312 Cherry Street, Toronto, Ontario (May 2018 to present)**

Project Manager responsible for coordination of environmental sampling of source material, analytical results review, and adherence to EllisDon health and safety protocol. A portion of Lake Ontario is being in-filled with imported material from a nearby excavation, with the intent to develop the newly-established land with mixed residential land uses. Englobe is providing environmental monitoring on behalf of EllisDon during source material sampling and importing activities.

### **Hunt Club Valley Inc. – Remedial Excavation, Record of Site Condition, Speedsville Road, Cambridge, Ontario (May 2017 to December 2017)**

Project Manager and QP<sub>ESA</sub> responsible for scope review, sample collection, analytical results review, and preparation of a technical report. The project was part of ongoing activities related to the proposed redevelopment of the site with residential land use. Englobe conducted the remedial excavation of areas of known soil impact and successfully filed a Record of Site Condition for the site with the MOECC on behalf of the client.

### **Valley View Heights (St. Jacobs Ltd.) – Certificate of Property Use, Record of Site Condition, St. Jacob's, Ontario (January 2017 to July 2018)**

Technical Manager and QP<sub>ESA</sub> responsible for scope review, sample collection, analytical results review, and preparation of a technical report. In collaboration with external QP<sub>RA</sub>, prepared supporting documentation and revised Conceptual Site Model to obtain a Certificate of Property Use, and successfully filed a Record of Site Condition for the Site with the MOECC.

### **DNK Development Corporation – Remedial Excavation, 30 George Street South, Cambridge, Ontario (May 2017 to July 2017)**

Project Manager and QP<sub>ESA</sub> responsible for scope review, sample collection, analytical results review, preparation of a technical report. The project was part of ongoing activities related to the proposed redevelopment of the site with residential land use. The remediation activities were conducted in accordance with the requirements of the Certificate of Property Use for the Site, which included the preparation of a Soil & Groundwater Management Plan, supervision of activities under the direction of a QP<sub>ESA</sub>, and correspondence with the MOECC on behalf of the client.

### **Morrison Creek Estates – Remedial Excavation, Record of Site Condition, Ripplewood Rd, Cambridge, Ontario (December 2016 to October 2017)**

Technical Manager responsible for scope review, sample collection, analytical results review, and preparation of a technical report. The project was part of ongoing activities related to the proposed redevelopment of the site with residential land use. Englobe conducted the remedial excavation of areas of known soil impact and successfully filed a Record of Site Condition for the site with the MOECC on behalf of the client.

### **Scotiabank Real Estate – Phase II ESA, UST Investigation, 600 James Street North, Hamilton, Ontario (August 2016 to December 2016)**

Environmental Engineer responsible for underground utility locates, preparing the scope of work and cost estimate, coordinating third-party excavation and drilling contractors, supervising field activities, reviewing sampling locations, interpreting field data, preparing a technical report, corresponding with the client via e-mail and conference calls, and providing recommendations for further investigations as required. The project was completed as part of the client's internal due diligence requirements. Englobe conducted the removal of a previously-unidentified underground storage tank from the site, and conducted confirmatory sampling of the soil and groundwater to confirm the presence and/or absence of subsurface impacts at the site.



**Nexans Canada – Effluent Monitoring and Groundwater Sampling Program, 670 Gzowski Street, Fergus, Ontario (2009-2013)**

Site Assessor/Technical Manager responsible for completing an annual monitoring program. The property is developed with a telecommunication cable manufacturing facility. The project was completed as part of the client's internal due diligence requirements. Duties included reviewing the manufacturing process and identifying any potential sources which may attribute to elevated concentrations in the effluent quality, and periodic groundwater monitoring of existing groundwater wells at the property.

**Confidential Client – In-Situ Remediation, Confidential Site, Kitchener, Ontario (2005-2012)**

Site Assessor/Technical Manager responsible for maintenance and operation of a groundwater treatment system and monitoring of the groundwater plume. The project was completed as part of MOECC requirements for the continued treatment system operation and as part of the agreement to discharge treated effluent to the City of Kitchener storm sewer. Duties included monitoring the treatment system performance, monitoring and sampling of proximal groundwater monitoring wells, and preparation of periodic progress reports to the client.

**Confidential Client – Phase II ESA/UST Decommissioning/Remedial Excavation, 36 Spencer Avenue, Toronto, Ontario (2013)**

Site Assessor/Technical Manager responsible for the completion of the Phase II ESA and UST Decommissioning Program and subsequent Remedial Excavation Program. The property was a former institutional facility which was being redeveloped into residential dwellings. The project was completed as part of the client's due diligence requirements. Duties included preparing the Phase II ESA report, coordinating the removal of the UST, supervision of the remedial excavation, and coordinating the completion of an underpinning excavation design.

**Georgia Pacific – UST Decommissioning and Variance Application, 228 Queen Street West, Brampton, Ontario (2011)**

Site Assessor/Technical Manager responsible for the completion of an application for variance to abandon a fuel oil UST within the property building. The property is developed with an industrial building that manufactures disposable paper cups. The purpose of the project was to successfully decommission the existing buried UST without the need to excavate within the building footprint. Duties included overseeing the cleaning and inspection of the UST, conducting verification soil and groundwater testing, filling the UST with unshrinkable grout, and receiving confirmation from the TSSA that the variance was successfully approved.

**Confidential Client – Phase I/II ESA, UST Decommissioning and Remedial Excavation, 2828 Bathurst Street, Toronto, Ontario (2012, 2013)**

Site Assessor/Technical Manager responsible for the completion of the Phase I ESA, Phase II ESA, and UST Decommissioning Program and Remedial Excavation Program. The property is developed with a multi-tenant commercial building. The project was conducted for due diligence purposes for the potential divestment of the property. Duties included completing the Phase I ESA and Phase II ESA reports, preparing a scope of work and budget for the removal of the UST and any impacted soil, and responding to peer review comments made by the potential purchaser's third-party environmental consultant.

**Shred-It – Environmental Peer Review, Phase I/II ESA, Indoor Air Quality Sampling Program, Screening Level Risk Assessment, 136 Pinebush Road, Cambridge, Ontario (2011, 2012)**

Site Assessor/Technical Manager responsible for the completion of the Environmental Peer Review, Phase I ESA, Phase II ESA, Indoor Air Quality Sampling Program, and support for the Screening-Level Risk Assessment. The property is developed with an industrial building. The project was conducted for due diligence purposes for the potential acquisition of the property. Duties included conducting an environmental peer review of previously existing activities, completing the Phase I ESA and Phase II ESA reports, coordinating the Indoor Air Quality Sampling Program, and providing technical support for the completion of a Screening-Level Risk Assessment.



## CAREER PATH

|                         |   |
|-------------------------|---|
| Since March 2018        | <b>Englobe Corp., Toronto, Ontario</b><br>Team Lead, Toronto Operations/Environmental Engineer – Environmental Group                      |
| Aug. 2016 to March 2018 | <b>Englobe Corp., Kitchener, Ontario</b><br>Environmental Engineer/Project Manager, Environmental Group                                   |
| Feb. 2015 to Aug. 2015  | <b>Soil Engineers Ltd., Toronto, Ontario</b><br>Project Manager, Environmental Services   |
| Oct. 2010 to Jan. 2014  | <b>Pinchin Environmental Ltd., Mississauga, Ontario</b><br>Project Manager, Environmental Due Diligence and Remediation                   |
| July 2005 to Oct. 2010  | <b>Pinchin Environmental Ltd., Mississauga, Ontario</b><br>Project Technologist, Environmental Assessment and Transactional Due Diligence |

## PROFESSIONAL DEVELOPMENT

|      |  |
|------|--|
| 2018 | Infrastructure Health & Safety Association (IHSA) Basics of Supervising Training   |
| 2018 | Modified Generic Risk Assessment (MGRA) Training Session, hosted by Association of Professional Geoscientists of Ontario (APGO) and Ontario Ministry of the Environment and Climate Change (MOECC), Toronto, Ontario |
| 2016 | Registered as a Qualified Person (QP <sub>ESA</sub> ) with the Ontario Ministry of the Environment and Climate Change (MOECC)  |

## TYPICAL REFERENCE MATERIALS

Reference materials used for each project include:

- 🔍 Ontario Regulation 153/04, Record of Site Condition – Part XV.1 of the EPA, Ontario Ministry of the Environment (MOE), 2011
- 🔍 Environmental Management Protocol for Fuel Handling Sites in Ontario, Technical Standards and Safety Authority (TSSA), EMP-2012
- 🔍 Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy (MOEE), 1996
- 🔍 Phase I Environmental Site Assessment Standard Z768-01, Canadian Standards Association (CSA), 2001
- 🔍 Phase II Environmental Site Assessment Standard Z769-00, Canadian Standards Association (CSA), 2000
- 🔍 R.R.O. 1990, Reg. 347: General – Waste Management, 1990

## COMPUTER SKILLS

Microsoft Office, Microsoft Visio, AutoCAD, Surfer, WinLoG, gINT