



Professional Land Survey and Geomatics Services

2535 Lesperance Road
Tecumseh, Ontario
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Phone: 519-258-4166
Toll Free: 1-888-735-4166
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www.clarkesurveyors.com

CLARKE SURVEYORS INCORPORATED

Land Information Managers
Land Surveyors & Map Makers
Established 1970



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Associate Company

**MACKAY
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Burlington, Ontario

ONTARIO LAND INFORMATION PROFESSIONALS

ROSS A. CLARKE, O.L.S.
DASHA PAGE, O.L.S.
DAVID PETERS, O.L.S. (RET)
KEVIN BROWNLEE

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1. Company Background

1.1. Stability and Reputation

Clarke Surveyors Incorporated

Clarke Surveyors Incorporated offers services that are complimentary to those provided by engineers, planners, architects, lawyers and other consultants involved in the design, development and construction industry. The firm has an expertise and long established experience in land surveying of major commercial, industrial, institutional and residential projects. This project participation resulted in the firm's long tradition of service excellence.

Clarke Surveyors Incorporated trains and develops its staff in-house which allows for continuity and relationship building with our clients. Our staff does not just follow instructions; they understand and fully participate in each project. Our combined expertise and experience results in quality work, on time and within budget. The success of this approach is evident from the firm's long standing list of satisfied clients and referral business.

City of Windsor
Stantec Consulting
BP Canada Energy Company
Aecon Civil & Utilities Group
Erie Sand and Gravel Limited
Dillon Consulting Limited
Town of Essex
St. Clair College
Alberici Constructors
General Motors Company

Union Gas Company Limited
Canadian Salt Company Ltd.
PCL Constructors Canada
Greater Essex County District School Board
Golder and Associates
Nor-Built Construction
University of Windsor
Hotel Dieu Grace Hospital
Ford Motor Company
Chrysler Canada

1.2. Number of Years Providing Specific Services

Clarke Surveyors Incorporated was originally formed in 1970 under the name of R.A. Clarke Ontario Land Surveyor providing land surveying and planning services to the public and private sector in Windsor and surrounding areas.

Clarke Surveyors Incorporated was a successor to the survey practice of W. J. Fletcher, one of the early surveyors in Essex County starting in 1917. Clarke Surveyors Incorporated is now the oldest firm in the Windsor Essex County region.

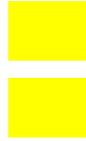
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Clarke Surveyors Incorporated is associated with MacKay MacKay & Peters Limited. In 1990, Mr. Clarke acquired MacKay MacKay & Peters Limited, Hamilton, Ontario, one of the oldest survey firms in the area, commencing business in 1906. MacKay MacKay & Peters Limited is also the successor to the survey practice of one of Canada's great map makers and explorers of the late 19th Century by the name of J. W. Tyrell. In 1997, Mr. Clarke acquired Yates & Yates Limited in Burlington, Ontario, the successor to the survey practice of Sewell and Sewell, and added this practice to MacKay MacKay & Peters now in one office in Burlington, Ontario.

The surveying services provided by Clarke Surveyors Incorporated are offered in the following areas:

- Legal (Cadastral) Surveys
- Engineering / topographical Surveys
- Geodetic Surveys
- Construction Layout Services
- Condominium Surveys
- Land Development / Planning Services
- Building Layout Services
- Lease area Surveys
- Volume Surveys
- Cemetery Surveys
- Underground / Mining Surveys
- Subsidence Surveys
- GIS / Geomatics projects
- Mapping for inventory purposes including aerial photography

1.3. Health and Safety Programs

At Clarke Surveyors Incorporated, we are proud of our safety record and training provided to our employees. We have established Health and Safety Policy that has been implemented across the company and which is available to all employees and sub-contractors. Our staff follows established health and safety procedures as identified by Clarke Surveyors Incorporated and monitors contractor's compliance to their own safety plans, and to the provincial Occupational Health and Safety Act. Our company and its employees are covered under the Worker's Compensation.

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Our Staff are briefed on a regular basis as required and have acquired training in the following areas:

- ✓ St. John's Ambulance Standard First Aid with CPR Level A
- ✓ Work Hazardous Materials Information Systems (WHMIS)
- ✓ Occupational Health and Safety Act
- ✓ Personal Safety Practices
- ✓ Traffic Control
- ✓ Confined Space Entry Certification
- ✓ Fall Protection

1.4. Company Certification / Membership

Clarke Surveyors Incorporated successfully operates under a Certificate of Authorization in the cadastral discipline of professional land surveying.

2. Qualifications Relevant to Area of Interest

2.1. Principal / Project Managers / Senior Professionals

Our team consists of an experienced and dedicated group of individuals committed to actively assist our clients and help them meet their objectives and needs of each project.

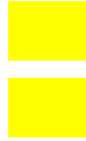
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Ross A. Clarke, O.L.S., O.L.I.P. (Registration Number 1201) President of Clarke Surveyors Incorporated

Mr. Clarke holds a license to practice as an Ontario Land Surveyor (OLS) for over 40 Years, an Ontario Land Information Professional (OLIP), a professional manager (PMgr) and a Professional Land Economist (PLE). His technical practice has included survey and mapping for engineering, architectural and construction projects worth in excess of \$250 million in a year. He has been involved in several real estate projects as a principal. His company was a founding member of the POLARIS project (Province of Ontario Land Registration System) a project to computerize the land registry system in Ontario (4.8 million parcels) now known as TERANET.

His community activities have included Chairman of the Windsor-Essex Chamber of Commerce, Chairman of the Salvation Army Business Advisory Board, founding President of the Windsor Western Hospital Foundation, and past president of the Windsor-Essex County Development Commission. He is also a member of the Windsor Club and Beach Grove Golf and Country Club.

Mr. Clarke initiated and was founding President and Chairman of Photomap Air Surveys for 20 years. Photomap carried out a major share of the projects to re-map the Province of Ontario. The largest single contract was for 30,000 square miles in Northern Ontario.

Mr. Clarke has been involved in Mich-Can International Bridge Company as managing director, teamed with Fluor Infrastructure (US engineering and construction company) proposing to construct a new international bridge at the Detroit-Windsor Border. Mr. Clarke had been monitoring the trucking business for over 10 years for this project. He speaks regularly at committee meeting and to the press on these issues.

Mr. Clarke has also been involved in several small businesses as a member of the board, a partner, chairman of the audit committee, secretary-treasurer, etc.

Mr. Clarke is a past member of the Advisory Board for the McMaster University's DeGroot School of Business, a past member of the Board for the Hamilton Better Business Bureau, a member of Business Executives Organization of Hamilton and Windsor, and a member of Burlington's and Windsor-Essex Chamber of Commerce. Mr. Clarke is a chairman of Muskoka Woods Foundation for Muskoka Woods Sports Resort.

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Kevin Brownlee

**Graduate of Survey Technologist over 25 years experience in the Industry
General Manager Clarke Surveyors Incorporated**

Mr. Brownlee is the General Manager of Clarke Surveyors Incorporated with extensive land surveying experience including planning, supervising and directing the production of Legal and Construction survey plans. Providing supervision, advice and direction to staff, consultants and consulting with clients, government officials, municipal authorities, consultants and other agencies to clarify survey problems and exchange survey information. Drawing up contracts bidding and billing are part of a normal day. Mr. Brownlee has comprehensive knowledge and experience in legal surveys and plans, related legislation and standards.

Mr. Brownlee has managed survey projects including legal and topographic surveys for the City of Windsor, geodetic control surveys, high-rise condominium projects, subdivision projects, construction layout projects, Ontario Hydro projects, cemetery plans for London Diocese, volume surveys, description reference plans for Ontario Realty Corporation, Highway 401 reference plans for Ministry of Transportation, reference plans for Ontario Power Generation, legal and topographic surveys for the Windsor Port Authority, legal survey work for Canadian National Railways, legal and topographic surveys for PCL Constructors projects, the construction and legal surveying for the Casino Windsor, legal and topographic surveys for Greater Essex County District School Board and The Windsor-Essex Catholic District School Board, and many more.

Mr. Brownlee is an active member of several organizations, including the following:

- The Windsor Construction Association is an Association of over 300 member companies in the Industrial, Commercial and Institutional Construction Sectors, that work together to promote contractors, sub trades and suppliers by maintaining high standards of ethics, education, safety, environmental practices and training, to create a progressive, competitive construction industry. In 2008, the Windsor Construction Association celebrated 100 years of service to its members.
- Windsor Executives Association – Founded in 1950, the Windsor Executives Association has met weekly at luncheon meetings for over 5 decades. These meetings, together with “Leads” and “Contacts” are the main feature of the Windsor Executives Association. It’s like having an entire sales force of sixty individuals working on your behalf. This organization is a means of personally advertising your business among other executives.
- Heavy Construction Association of Windsor consists of over 80 member companies and over 1000 employees in the Road, Sewer and Water main portion of the construction sectors work together to promote contractors, sub trades and suppliers by maintaining high standards of ethics, education, safety, environmental practices and training, to create a progressive, competitive construction industry.
- The Greater Windsor Home Builders’ Association – is a voluntary organization that understands its members needs and supports their success. It is a strong and positive representative body for our industry with consumers and government. The Association is made up of individuals that work in the residential building industry right here in the Windsor area.

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Steven Pilon

Project / Drafting Supervisor

Associate Member, the Association of Ontario Land Surveyors

Land Survey Technician, Fanshawe College

OAC Diploma

Mr. Pilon is responsible for supervising and training office and field staff, updating company procedures and preparing and performing Registry Office searches, calculations and organizing jobs. Mr. Pilon has extensive drafting experience with Condominiums, Plot Plans, Surveyors Real Property Reports, Topographic Surveys, R-Plans, M-Plans and Engineering Plans, coordinating and calculating housing sites, condominium environments and industrial buildings for construction. He supervises the operation of data collectors, total stations and equipment, downloading and processing data using StarNet, MicroSurvey, MicroStation and AutoCAD to produce final products.

Mr. Pilon participates in Workplace Safety Meetings, reviews traffic safety procedures, sources suppliers and orders supplies, software and equipment as well as installing required hardware and software packages and maintenance of equipment. Mr. Pilon prepares, allocates and tracks work assignments to drafting and field staff including progress reports, Municipal By-law research and remote title searches using Teraview. He provides planning services to clients including research, review and the completion of Subdivision and Condo, Site Plan and Committee of Adjustment applications in accordance with municipal requirements and the Planning Act.

Mr. Pilon's Surveyor Field Assistant experience and qualifications include:

- Conducting topographic mapping and subdivision layouts in areas of new development across Ontario
- Evaluating natural areas to establish limit of development
- Monument R-Plans and M-Plans
- Setup and operation of surveying equipment
- Monitor and maintain survey equipment
- Client / consultant meetings

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Kris Balallo

Drafting / Survey Technician

Mr. Balallo has extensive experience as a Junior Party Chief and Instrument Person establishing and marking legal boundaries of property, parcels of land, provincial and Canadian lands, well sites, utility right-of-way roadways and highways. Mr. Balallo demonstrates and operates data collectors, total stations and equipment. He downloads and processes data using MicroSurvey, global position systems and AutoCAD recording all measurements and other information to produce final products

Mr. Balallo is proficient developing drawings such as Topographic Surveys, Reference Plans, Plans of Survey, Surveyor Real Property Report, Mapping Surveys, Lot Grading Plans, Layout Plans, Site Plans, Plans of Subdivision and Plans of Condominiums. Mr. Balallo performs extensive title searches at the Land Registry Office and office archives. He maintains professionalism and liaises with clients, lawyers, municipalities, ministries, townships, engineers, architects and contractors. He operates computer-assisted design (CAD) and drafting workstations, complete documentation packages and produced drawing sets. Mr. Balallo is proficient in reading construction drawings and maps, analyzing building codes, by-laws, space requirements, site requirements and other technical documents and reports.

Mr. Balallo's Surveyor Field Assistant experience and qualifications include:

- Conducting topographic mapping and subdivision layouts in areas of new development across Ontario
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Clarke Surveyors Incorporated Support Staff

Clarke Surveyors Incorporated support staff includes 4 survey crews, including capability of 3 one man crews and 3 CAD operators. The technical staff has a broad experience and expertise in GPS, cadastral, topographic, and control surveying using real time GPS equipment, reflectorless total stations and using the latest software. The field staff is well trained and knowledgeable in traffic safety. CAD operators and field staff are trained and operate **AutoCAD, MicroStation and Bentley InRoads, Microsurvey** software applications and **Sokkia GeoOffice** for GPS surveys.

Clarke Surveyors Incorporated employees deal on an everyday basis with many applications of surveying including Land surveys, Property line surveys (including fences), Subdivisions, Condominium plans, Cemetery plans, Mortgage surveys (Surveyor's Real Property Report), Description Reference plans, Construction surveys, Lease area certificates, Volume surveys for stockpiles, excavations, underground and tunnel surveys, Reports under the Aggregate Resources Act, and Geodetic control surveys, GPS surveys, etc.

2.2 Technical Support

Clarke Surveyors Incorporated invests in leading edge technology that will provide the firm with the tools necessary to remain at the forefront of the industry. The field survey equipment includes the latest technology available to the survey industry such as Real Time Kinematic Global Positioning Systems, Automated and Reflectorless Total Stations, and Digital Precise Levels. Our Information Technology staff are constantly reviewing the hardware and software needs to make sure the latest programs are used in order to expedite field to office data exchange and processing.

Clarke Surveyors Incorporated provides real time kinematic (RTK) **GPS surveying** using **Sokkia equipment**. We are using the Can-Net VRS Correction Service for GPS corrections via the internet using digital modems. This allows for real-time positioning at the cm level within several areas throughout southern Ontario. Can-Net is a new service managed by Cansel. It is comprised of a series of reference stations across Canada, which provide GPS data for real-time applications the Internet is linked to rover receivers using the cellular wireless technologies of 1X and GPRS.

We operate with the Sokkia Total Stations with its innovative Servo, Autolock, and Robotic technology which enables land survey crews to work more productively than ever before. The instrument measures to extremely long range, even when measuring in reflectorless mode. The Sokkia Total Station seamlessly integrates with complementary technologies on the job site: Sokkia field software receives GPS and optical data in one job file for effortless transfer. All receivers combine innovative Sokkia technology and advanced system design for RTK.

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Clarke Surveyors Incorporated is currently testing the latest technology of spatial imaging which enables users to capture, extract, and analyze accurate positioning data from the ground level. When these terrestrial measurements are fused with spatial data collected from airborne sensors (e.g. satellites), the results are complete deliverables for the geospatial industry. Because a picture is worth a thousand words to us and our clients, we would hope to combine the precision of points collected using traditional surveying techniques with the compelling impact of 3D imaging.

To produce highly accurate survey plans, our staff efficiently operates daily in the following software applications:

- **BentleyInRoads Survey** enables to transfer data from electronic fieldbooks to the **MicroStation** or AutoCAD environment, reducing time from field to finished drawings with interactive data editing capabilities. It produces plot-ready graphics immediately upon reading the data. Contours can be displayed, surveys adjusted and results visually verified. **InRoads Survey's Fieldbook Data Editor** helps to interactively edit the raw survey data. The graphics updates can be seen immediately, without reprocessing the raw data file. Feature-based attribution can be used to automatically annotate each feature in the design file.
- **MicroStation**, the most powerful, most accessible and most interoperable CAD platform for the design, construction and operation of the world's infrastructure.
- **Autodesk AutoCAD**, software application used from survey, design, and analysis to drafting and construction documentation.
- **GeoMedia, ArcView, Visual Basics, Oracle** – Geographic Information Technology (GIS) software used for data distribution and display of Parcel Management, Aerial Imagery, data conversions, etc.

3. Relevant Experience in Area of Expertise

3.1. Cadastral Surveying

- Boundary of the City of Windsor
- Clarke Surveyors Incorporated is a roster consultant for the City of Windsor under the Professional Land Survey and Geomatics Services for the past consecutive 41 years and completed multiple surveys such as road and traffic surveys, topographic and profile surveys and reference plans.
- Clarke Surveyors Incorporated has a three year contract with Union Gas and completed many cadastral plans including layout of running lines for new gas lines and staking the limits between public and private right of ways.

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- Clarke Surveyors Incorporated is a registered contractor for the Ontario Realty Corporation (ORC). We have completed multiple Reference Plans and Topographic Surveys.
- Clarke Surveyors Incorporated set up an integrated control network for Teranet base mapping in 1999.
- Clarke Surveyors Incorporated set up second order accuracy horizontal and vertical control network for the City of Windsor. Project: Sandwich South Employment Lands Sanitary sewer project of over 11 kilometers. In this area the new jail will be built.

3.2. Horizontal and Vertical Control Surveying

- Clarke Surveyors Incorporated set up an integrated control network for Teranet base mapping in 1999.

3.3. Photogrammetric Mapping

- Mapping surveys for inventory purposes and yearly volumes and location of aggregate inventory, via aerial mapping for Southwestern Sales Limited

3.4. Engineering Surveying and GPS Surveys

- Clarke Surveyors Incorporated provides real time kinematic (RTK) GPS surveying using Sokkia equipment and operates with Sokkia, Topcon and Leica Total Stations with innovative Servo, Autolock and Robotic technology which enables land survey crews to work more productively than ever before.
- Topographic and profile surveys for the City of Windsor, Town of Tecumseh, Town of Lakeshore, Town of LaSalle, Town of Amherstburg, Town of Essex, Town of Kingsville and Town of Leamington.
- Road and traffic intersections under the above roster for the City of Windsor.
- Topographic / Legal surveys for Parks and Recreation departments of the City of Windsor.
- Topographic / Legal surveys for the Greater Essex County District School Board

3.5. G.I.S. / Geomatics Projects

- Collected Geo Data for Ontario Hydro data base update during 2003 / 2004.
- Technical support and implementation of Teranet's Mapping Systems using GeoMedia Technology.
- Development and setup of the framework for Ontario Parcel data delivery program which delivered GIS, CAD and Attribute data to Municipalities and Provincial Agencies across Ontario. This included all major GIS formats and developing transactional delivery capabilities using a variety of tools. Within this environment we handled projection / datum conversions, file format changes, custom formats for specific clients all in a schedule delivery system which automated most of these activities to server side processes.

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