

Metropolitan Toronto Surveying and Mapping

CENTRAL MAPPING DIVISION

The Central Mapping Agency of Metropolitan Toronto is temporarily operating as the Central Mapping Division of the Roads and Traffic Department of Metropolitan Toronto.

The Agency will be providing the following services for all the Municipalities in Metropolitan Toronto Area.

Mapping — standards and quality control of mapping programs

Surveying — standards, quality control and maintenance of horizontal and vertical control surveys

Library — library services for control surveys, all types of maps prepared under the grid system and map distribution.

For information please contact:

Administration

R. A. Smith, O.L.S.

Administrator - Mapping and Surveying

Mapping

G. T. Sawayama, B.A. Sc., P.Eng., O.L.S.
Supervisor - Topographic Surveys

Control

A. S. Cochrane, B.A. Sc., O.L.S.
Supervisor - Geodetic Surveys

Library

A. Reddy, B.Sc., B.L.S., M.L.S.
Library Supervisor

By phone — (416) 482-8011

By mail

Metropolitan Toronto
Central Mapping Division
3284 Yonge Street, Suite 202-203
Toronto, Ontario M4N 3M7

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BENCH MARK BOOKS

A new series of metric bench mark books will be available in the spring. There are six books covering the Metropolitan Area.

Authority has been requested to engage consultant firms for control surveying and photogrammetric mapping. Ontario Land Surveyors will perform the control surveys in accordance with the Association's schedule of fees. The Agency is engaging a few firms holding Certificates of Authorization from the Professional Engineers Association for photogrammetric mapping services.

The Agency is awaiting the decision of the Survey Association concerning what fields they cover. It would be desirable to have both geodetic and photogrammetric surveying covered by either the Professional Engineers and/or the Professional Surveyors.

The Department had a recent enquiry from a U.N.B. graduate. Unfortunately, we had to advise him that he could not work for the Central Mapping Agency and still qualify for his O.L.S.

The A.O.L.S. President at the Annual Meeting asked the membership to consider "What business the Association is in" — Property Surveying or Professional Surveying, the narrow field or all aspects of professional surveying. If it is only property (land) surveying, then the Association should encourage the Professional Engineers to include all the other survey specialities. As stated in the May 1975 submission by Metropolitan Toronto to A.O.L.S., "the Municipalities have an increasing need to be able to identify, with certainty, those who are expert in surveying and mapping and to rely upon their expertise".

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ROLE OF THE ASSOCIATION

(The text of a submission to the A.O.L.S. regarding Reconstructing of the Survey Industry in Ontario, by S. Cass, Commissioner of Roads and Traffic Municipality of Metropolitan Toronto, May 10, 1975.)

The Municipality of Metropolitan Toronto is a user of the Survey industries service and must assure the public that it is obtaining value for its expenditures. Similarly, your Professional Association is entrusted with responsibilities to the public under The Surveyors Act. They include:

- the regulating of the practice of professional surveying;
- the establishment and maintenance of the skills and knowledge of your members;
- the establishment and maintenance of standards of ethics of your members;
- the examination and licencing of surveyors and surveying firms; and
- the monitoring of, discipline of and cancelling the right to practice of surveyors and surveying firms.

Presently, your responsibilities are limited to the sector of the survey industry related to Professional land surveying i.e., the creating and re-establishment of property boundaries. Indirectly, through agreements and by-laws, the Association has assumed certain responsibilities for the accrediting and discipline of Survey Technologists and Technicians in Ontario.

I understand the purpose of your present study is to determine if the public interest would be served by expanding your span of authority and responsibility to cover the survey industry in Ontario.

The extent of the industry may be found in a definition in the 1974 University of Toronto Guidance Centre occupation information monograph on a Professional Surveyor. This definition is of some note because the text for the monograph was prepared by the Association of Ontario Land Surveyors; it states:

"A Professional Surveyor is a person who works within the science of professional surveying, which embraces the body of knowledge used to measure and represent the geometric and physical features of any space." It further states, specialties include land surveying, geodesy, photogrammetry, engineering (surveying), cartography and hydrography."

A definition of the role of Survey Technicians and Technologists may be found in a recent pamphlet on surveying by the Association of Certified Survey Technicians and Technologists. It states as follows:

"Survey Technicians, Senior Technicians and Technologists are the men and women who under the direction of trained Surveyors, measure everything on the earth's surface - from a continent to a cottage foundation. Certified technical personnel are those who have, through a combination of academic qualifications and practical experience met the standards set by the Certification Board made up of representatives of (A.O.L.S.) and (A.C.S.T.T.O.)."

Again the various specialties are listed in this pamphlet.

Proposal for change

It appears from the above that the Association of Surveyors for Ontario, in common with world opinion (i.e., International standard classification of occupation), sees surveying as an industry composed of specialists.

The proposal for change would bring the total industry under the central jurisdiction and responsibility of the professional body. Is there a need to integrate the various specialties and to assure the public that the practitioners have the required skills and knowledge?

Metropolitan Corporations Concern

This question may be considered in light of the Metropolitan Corporation's concerns. The Municipality's study on a central Mapping Agency indicated a need for a co-ordinating body for surveying and mapping functions and a need to integrate their knowledge regarding physical and boundary features, with the extensive knowledge about the current state of the urban environment. The study made the following statements:

"Only this knowledge, enables the

policy maker to cause programs to be developed for the optimum utilization of available resources to improve the quality of urban life."

"In the conduct of a City's or urban area's business two factors require constant consideration. These are the land itself with its configuration and other physical characteristics and the lines that form the boundaries of real property."

"Inherent to basic and intelligent management of land resources is an adequate system of land inventory and identification. Modern surveying, mapping and record storage techniques are compatible with and fundamental to such a system. (Ontario Advisory Council on Surveying, May 1970)" "Metropolitan Toronto needs to understand and guide the development of its limited land resources. Rapidly growing interest in our physical environment and mounting pressures concerning urban planning, the urban landscape, multiple land use and related building and engineering construction require a better land information system."

"Most planning today is based on inadequate information. Often information is not available at all or if it is, it is not readily accessible." "Design and implementation of a comprehensive urban information system is an undertaking requiring enormous financial and manpower resources over a long period of time. Few, if any Municipalities have achieved this goal yet, but many have embarked upon a step-by-step development of such a system, starting with basic data such as properties or boundaries and adding other physical or social-economic data as they become available."

"The proposed Map Agency must be aware of the implications, as stated above, to guide its standards and programs to facilitate its integration into a future possible urban information system."

Conclusion

The Metropolitan Council has adopted the report on a study for a Central Mapping Agency. It has taken the first step towards an urban land information system.

The implication of this step is far reaching and the Corporation is relying on the Survey Industry to supply skilled and knowledgeable surveyors, not only in land surveying but in the total field of surveying and mapping, both at the technical and professional levels. There is a need to integrate the various specialties in surveying and to ensure that the practitioners have the required skills and knowledge.

Time-Table A.O.L.S. Examinations

O. REG. 35/73, ERINDALE COLLEGE, MAY 3-12, 1976

The Board of Examiners will hold examinations in the following, at Erindale College, in accordance with Regulation 35/73 of The Surveyors Act:

Monday, May 3—Survey Law
 Tuesday, May 4—Advanced Survey Law
 Wednesday, May 5
 Professional Practice
 Thursday, May 6
 Measurement Theory & Adjustment
 of Observations

As a client of your services the Municipalities have an increasing need to be able to identify, with certainty, those who are expert in surveying and mapping and to rely upon their expertise.

We trust the Professional Association of Land Surveyors in Ontario will respond with vigor and enthusiasm to the needs of the urban communities.

Friday, May 7—Land Surveying
 Saturday, May 8—Geodesy

Monday, May 10—Geodetic Astronomy
 Tuesday, May 11—Photogrammetry
 Wednesday, May 12
 Introduction to Surveying

Each examination will have a duration of three hours. All examinations, except the one in Geodesy, will begin at 2.00 p.m. and end at 5.00 p.m. The Geodesy examination will begin at 9.00 p.m. and end at noon.

These examinations are equivalent to, but quite apart from, the final examinations administered by the University of Toronto in the same subject areas.

Any student wishing to write one or more of these examinations for credits toward membership should register at the Association office. The fee per subject is \$25.00 payable in advance, and no registration fee is required.

A. F. Allman
 Secretary, Board of Examiners

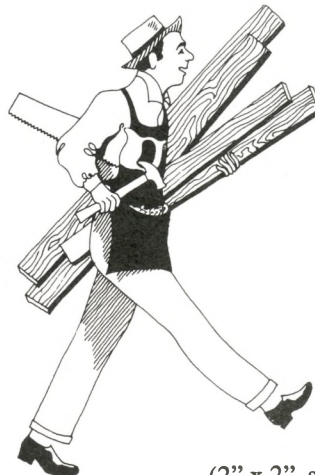
Good News For Ontario Land Surveyors

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	2" x 2"	.12
24"	1" x 1"	.08
	1" x 2"	.09
	2" x 2"	.18
30"	1" x 2"	.10
	2" x 2"	.22
36"	1" x 2"	.12
	2" x 2"	.26
48"	1" x 2"	.20
	2" x 2"	.32
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CONTACT M. R. WILLITS & ASSOCIATES

195 Winnett St., Woodstock, Ontario

Phone (519) 539-1555