

Surveying and Mapping Issues...

...for the County Engineer

Dean Ringle, PE, PS

Franklin County Engineer

CEAO Immediate Past President

PLSO Past President 1991

Don Pickenpugh, PS, GISP

Belmont County GIS Director

PLSO President 2011

OGRIP Best Practices 2005



Surveying and Mapping Issues for the County Engineer

- ACSM -> NSPS
- PLSO Reorganization
- HB 32/Definition of Surveying
- LightSquared
- Tax Mapping
- GIS Mapping
- GIS Conference

Surveying and Mapping Issues for the County Engineer

- ACSM -> NSPS

SURVEY SUMMIT

The ACSM Annual Conference
July 7–12, 2011 • San Diego, CA
San Diego Convention Center



Survey Summit July 7-12, 2011

ESRI UC July 10-16, 2011

Joint annual conferences

Surveying and Mapping Issues for the County Engineer

***Many, many
Sessions at the
Survey Summit***

All States have this: *(Professional
Responsibilities of Surveyors)*

**Protect the public's health,
safety and welfare**

OAC 4733-35-01

Code of Ethics for Engineers and Surveyors

In order to safeguard the life, health, property and welfare of the public and the state of Ohio, to maintain integrity and high standards of skills and practice in the professions of engineering and surveying, the following rules of professional conduct, promulgated in accordance with Chapter 4733. of the Revised Code, shall be binding upon every person holding a certificate of registration as a professional engineer or as a professional surveyor.

Surveying and Mapping Issues for the County Engineer

Other Sessions...

Curt Sumner, ACSM, State of the Profession

Julianne Blackwell, NGS, NGS Update

Rand Knight, CRITIGEN, Engaging in Change

“Surveying is the foundation of the geodatabase!”

Jeff Carlisle, LightSquared

Peter Large, Trimble, Coalition to Save Our GPS

<http://www.surveysummit.com/2011-proceedings/video.html#>

Surveying and Mapping Issues for the County Engineer

ACSM –

Three member organizations

National Society of Professional Surveyors

American Association for Geodetic Surveying

Geographic and Land Information Society

NSPS largest by far

As of January, 2012, ACSM will become NSPS

NSPS and AAGS will continue together to be a national voice for all surveyors



Professional Land Surveyors of Ohio



PLSO Reorganization Structure –

Executive Director

Administrative & Financial Assistant

Communications Specialist

Executive Committee (28)

20 Chapter Delegates , plus 2 Past Presidents

***6 Officers: President, President-Elect,
Secretary, Treasurer, NSPS Governor, Immediate Past
President***

Surveying and Mapping Issues for the County Engineer



Professional Land Surveyors of Ohio



Professional Land Surveyors of Ohio (PLSO)

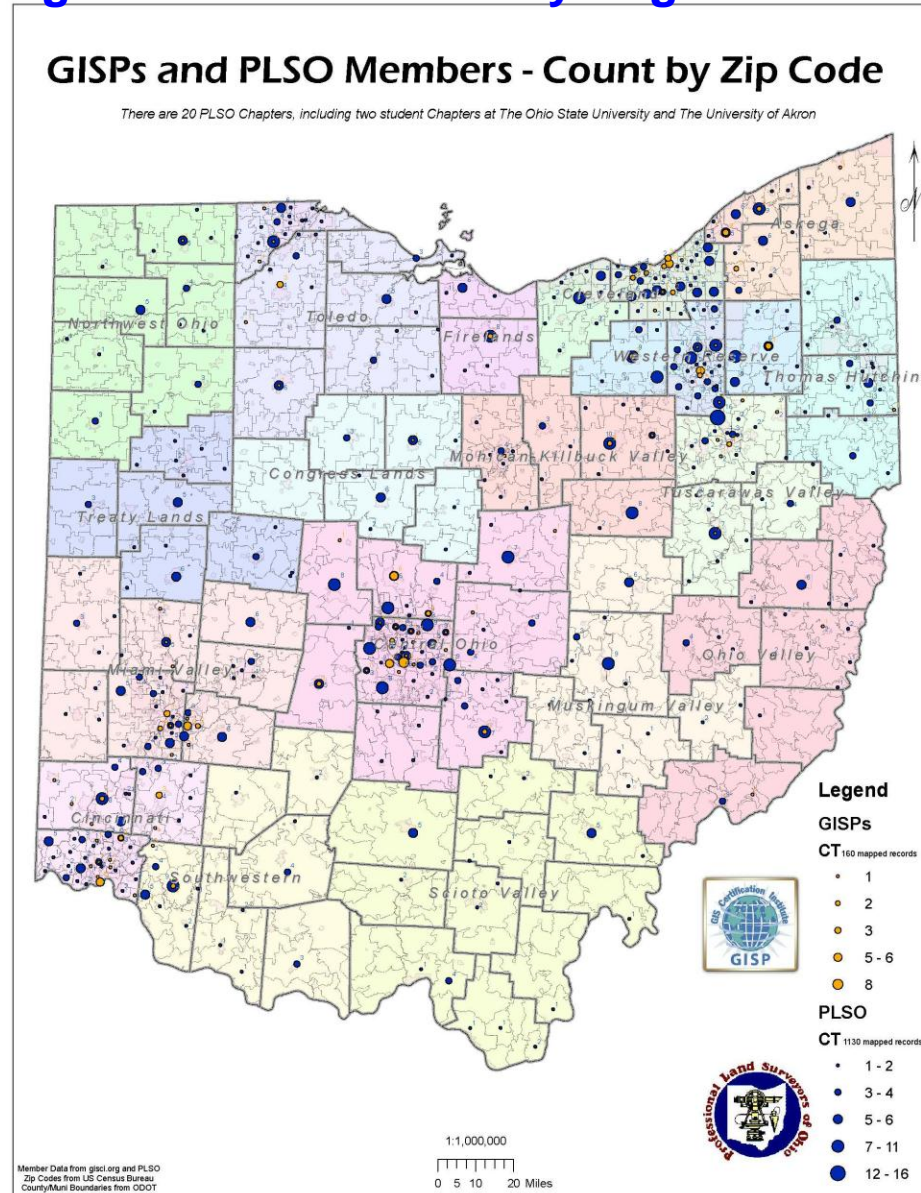
www.ohiosurveyor.org

Office in Dublin,
OHIO

20 Chapters



Surveying and Mapping Issues for the County Engineer



Surveying and Mapping Issues for the County Engineer

PLSO Executive Committee Agenda always includes reports from related agencies...

6.0 Inter-Association Delegates

6.1 CEAO - Dean Ringle

6.2 ODOT - Jim Kenyon

6.3 State Board of Registration - Melinda Gilpin

6.4 OGRIP – Dean Ringle

Dean is Chair of the State Line Special Committee

Surveying and Mapping Issues for the County Engineer

PLSO...

Works hard to protect the interests of Professional Surveyors as it relates to protecting the public

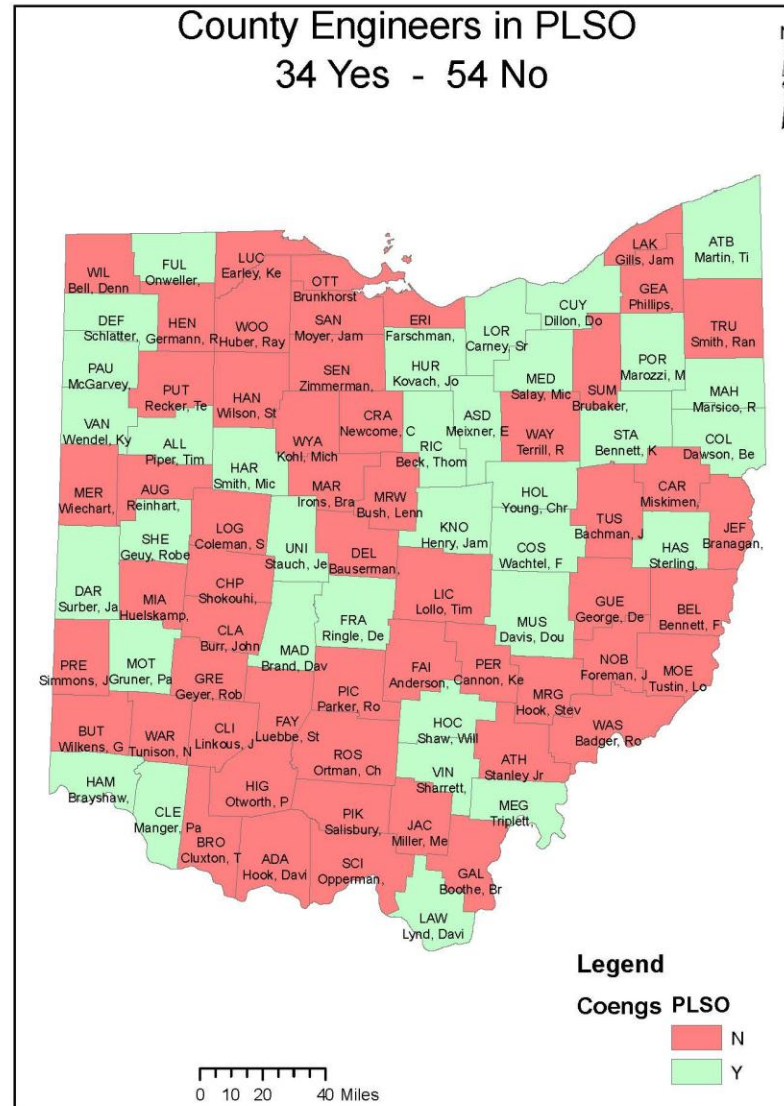
Good working relationship with CEAO, Board of Registration, ODOT

Concerned with maintaining the dual registration requirement for County Engineers

Excellent lobbying skills and experience

Surveying and Mapping Issues for the County Engineer

**PLSO thanks
County
Engineers for
their support**



Surveying and Mapping Issues for the County Engineer

Surveying... Current Issues

HB 32

Seeks to eliminate the PS from mapping boundaries for home septic system plans

Opposed by PLSO and Board of Registration

Pursuing amendment to clarify only a PS can map a boundary

Some County Engineers are Sanitary Engineers

Surveying and Mapping Issues for the County Engineer

Surveying... Current Issues

Definition of Surveying

Updated by PLSO Executive Committee Sep 2010

Text can be found online at ohiosurveyor.org,

Members page, Exec Comm Minutes, September 2010

(Text on following two slides)

Right of Entry

Progress being made with Farm Bureau

Statute of Limitations

Surveying and Mapping Issues for the County Engineer

Definition of Surveying Adopted by PLSO September, 2010

(F) “Practice of surveying” means providing, or offering to provide, professional services that require the application of special knowledge using such sciences as mathematics, geodesy, and cartography, and the relevant requirements of law for the adequate performance of the profession of surveying, and involving both (1) the making of geometric measurements and gathering related information pertaining to the physical or legal features of the earth, improvements on the earth, the space above, on, or below the earth, whether the gathering of information for the providing of these services is accomplished by conventional ground measurements, by aerial photography, by global positioning via satellites, or by a combination of any of these methods, and (2) providing, utilizing, or developing the same into survey products such as graphics, data, maps, plans, reports, descriptions, or projects. Professional services include acts of consultation, investigation, testimony evaluation, expert technical testimony, planning, mapping, assembling, and interpreting gathered measurements and information related to any one or more of the following:

Surveying and Mapping Issues for the County Engineer

Definition of Surveying Adopted by PLSO September, 2010, continued

- 1) Determining by measurement the configuration or contour of the earth's surface or the position of fixed objects thereon.*
- 2) Determining by performing geodetic surveys the size and shape of the earth or the position of any point on the earth.*
- 3) Determining the position for any survey control monument or reference point; establishing or replacing any such monument or reference point.*
- 4) Locating, relocating, establishing, reestablishing, or retracing property lines or boundaries of any tract of land, road, right of way, or easement.*
- 5) Making any survey for the division, subdivision, or consolidation of any tract(s) of land.*
- 6) Locating or laying out alignments, positions, or elevations for the construction of fixed works.*
- 7) Creating, preparing, or modifying electronic or computerized or other data, relative to the performance of the activities in the above described items (1) through (6).*

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Surveying ... Current Issues

LightSquared

Seeks to propagate broadband by terrestrial system

Interferes with GPS receiver reception

Opposing claims on both sides

Excellent updates from PLSO and Save Our GPS Coalition

Opposed by military, defense, aviation, precision farming, machine control/construction industries,

And by surveyors who need high precision GPS

Affects ODOT, County Engineers

Surveying and Mapping Issues for the County Engineer

PLSO & CEAO... Current Issues

Tax Mapping

Complaint filed with Board of Registration

GIS Staff in Auditor's Office performing deed transfer, description checks, not under supervision of a PS

Board of Registration presented to CEAO Board in September asking for input

CEAO Board asked for a white paper on the topic

Board of Registration updated PLSO Executive Committee in September

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PLSO & CEAO... Current Issues

White Paper close to being complete

The concern is one of protecting the public

ORC 325.14 states, “The engineer shall be the county tax map draftperson, but shall receive no additional compensation for performing the duties of that position.”

Various practices in place

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PLSO & CEAO... Current Issues

CCAO Legislative Program 2011-2012, Taxation & Finance

TAX MAP OFFICE

Amend Ohio law to eliminate the requirement that commissioners fund the tax map office from the general fund, allow the tax map office to be funded from the real estate assessment fund (REA), and establish the county auditor as the appointing authority of the tax map draftsman and other tax map office employees.

Permit the consolidation of tax map office services and geographic information system (GIS) services.

But what about a PS?

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PLSO & CEAO... Current Issues

CCAO Legislative Program 2011-2012, Taxation & Finance

QUALIFICATIONS FOR COUNTY ENGINEER

Presently under Ohio law, any person who seeks the office of county engineer must hold both a professional engineers license and a professional surveyors license....

Therefore, CCAO advocates that the requirement of holding the professional surveyors license be dropped as a requirement for election to the office of county engineer.

Additionally, we request that the law provide the county engineer may hold a professional surveyors license or may hire a person on staff who holds a professional surveyors license, or may, with the approval of the board of county commissioners, contract for services of a professional surveyor.

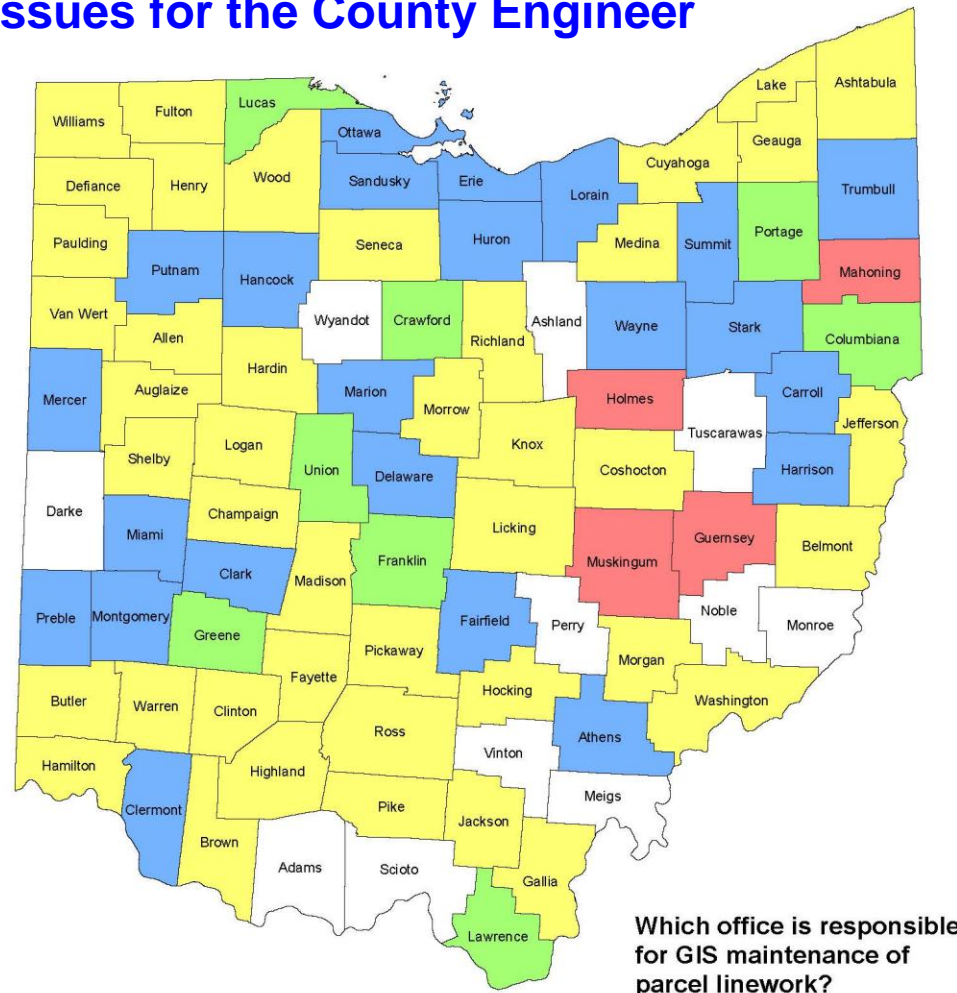
GIS County Profiles

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***Who
maintains
parcel line
work?***

***OGRIP
County
Profiles,
Sept 2011***

***Need more
Yellow or
Green!***



Which office is responsible
for GIS maintenance of
parcel linework?

County Parcels

- Auditors
- Engineers
- Auditors, Engineers
- Other
- No Response

Prepared by
State of Ohio/DAS/OIT
Infrastructure Services Division
Enterprise Shared Services
OGRIP/GIS Support Center
Sept 2011

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PLSO & CEAO... Current Issues

What about URISA?

Urban and Regional Information Systems Association

The premier GIS professional organization

29 Chapters by state or region

Ohio Chapter active, growing

Attempting to improve inter-association relationships

Ohio GIS Conference joint effort between CEAO, URISA and OGRIP

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URISA

***URISA International Conference Nov 1-4, 2011
GIS-Pro 2011, Indianapolis, IN***

***Heard a number of comments that GIS people need to
work more with surveyors***

One session – GIS & Surveying: Two Things or One?

Panel members included:

Al Butler, Incoming URISA President-Elect, FL;

Tripp Corbin, Consultant, GA;

Gary Kent, Board of Registration, IN

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NCEES Model Rules, August, 2010

210.25 Inclusions and Exclusions to the Practice of Surveying

A. Activities Included within “Practice of Surveying”

Activities that must be accomplished by or under the responsible charge of a professional surveyor (unless specifically exempted in subsection B of this section) include, but are not limited to, the following:

1. The creation of maps and georeferenced databases representing authoritative locations for boundaries, the location of fixed works, or topography. This includes maps and georeferenced databases prepared by any person or government agency where that data is provided to the public as a survey product.

Surveying and Mapping Issues for the County Engineer

NCEES Model Rules, August, 2010

210.25 Inclusions and Exclusions to the Practice of Surveying

B. Activities Excluded from “Practice of Surveying”

3. The transcription of public record data, without modification except for graphical purposes, into a GIS- or LIS-based cadastre (tax maps and associated records) by manual or electronic means, and the maintenance of that cadastre, provided the data are clearly not intended to authoritatively represent property boundaries. This includes tax maps and zoning maps.

Surveying and Mapping Issues for the County Engineer

NCEES Model Rules, August, 2010

210.25 Inclusions and Exclusions to the Practice of Surveying

B. Activities Excluded from “Practice of Surveying”

6. Inventory maps and databases created by any organization, in either hard-copy or electronic form, of physical features, facilities, or infrastructure that are wholly contained within properties to which they have rights or for which they have management responsibility. **The distribution of these maps and/or databases outside the organization must contain appropriate metadata describing, at a minimum, the accuracy, method of compilation, data source(s) and date(s), and disclaimers of use clearly indicating that the data are not intended to be used as a survey product.**

Surveying and Mapping Issues for the County Engineer

Our Charge as Professionals...

Engineer's and Surveyor's Creed

***“As a Professional Engineer or Professional Surveyor . . .
I dedicate my professional knowledge and skill . . .
to the advancement and betterment of human welfare.”***

***“I pledge to give the utmost of performance . . .
To participate in none but honest enterprise . . .
To live and work according to the laws of man . . .
and the highest standards of professional conduct.”***

***“To place service before profit . . .
the honor and standing of the profession before personal advantage . . .
and the public welfare above all other considerations.”***

***“In humility and with need for Divine Guidance . . .
I make this pledge.”***

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Contact Info

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