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Engineers and Surveyors Board Laws and Rules | Ohio A.C. section 4733-37

Board Site Links	4733-37 Standards for Boundary Surveys	Laws and Rules Links
Acronyms Definitions	4733-37-01 Preamble.	R.C. Chapter 4733 Laws Index
Address Name Change	These rules are intended to be the basis for all surveys relating to the establishment or	A.C. Chapter 4733 Rules Index
Board Members Staff	retracement of property boundaries in the state of Ohio. When the case arises where one or more provisions herein must be abridged due to local condition, the abridgement shall be clearly	Complete Chapter 4733 Laws
Board Minutes	indicated on plats and/or legal descriptions and reports. Where local or other prescribed regulations exist which are more restrictive than these rules, the survey shall conform to all local	and Rules on one page
Board Opinions	and state regulatory standards. When a client desires only a portion of his property surveyed, and this portion can be clearly isolated from the remainder of the property without affecting the	Complete R.C. and
	interests of adjoining owners, these rules shall apply to the survey of only the desired portion.	A.C. Online
Calendar Meetings	Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R. C. 119.03	Ohio R.C.
Fees	Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20	[Revised Code Online] includes all statutes of a
Forms	Prior Effective Dates: 05/01/1980; 11/01/2003	permanent and general nature of
Laws and Rules	4733-37-02 Research and investigation.	the state as revised and consolidated into general
News Releases	(A) The surveyor shall consult deeds and other documents, including those for adjacent parcels, in order to assemble the best possible set of written evidence of every corner and line of the property	provisions, titles, chapters, and sections including all bills
Newsletters	being surveyed.	passed and filed in the Secretary of State's office through October
Public Hearings	(B) After all necessary written documents have been analyzed, the survey shall be based on a field investigation of the property. The surveyor shall make a thorough search for physical	21, 2011.
Reinstatement	monuments, and analyze evidence of monumentation and occupation. In addition, the surveyor shall, when necessary, confer with the owner(s) of the adjoining property and the owner(s) of the	Ohio A.C.
Rosters	property being surveyed.	[Administrative Code Online] contains a codification
Seals P.E., P.S.	Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013	of the rules of the administrative agencies of the state and is
Verifications	Promulgated Under, R.C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20	updated for all regulations filed and adopted through October
20110504	Prior Effective Date: 11/01/2003	17, 2011.
	4733-37-03 Monumentation.	
	(A) The surveyor shall set boundary monuments so that, upon completion of the survey, each corner of the property and each referenced control station will be physically monumented.	
	(B) When it is impossible or impracticable to set a boundary monument on a corner, the surveyor shall set a reference monument, similar in character to the boundary monument and preferably along one of the property lines which intersect at that corner. When such a reference monument is used, it shall be clearly identified as a reference monument on the plat of the property and in any new deed description which may be written for the property.	
	(C) Every boundary monument and/or reference monument set by the surveyor shall, when practicable:	
	(1) Be composed of a durable material.	
	(2) Have a minimum length of thirty inches.	
	(3) Have a minimum cross-section area of material of 0.21 square inches.	
	(4) Be identified with a durable marker bearing the surveyor's Ohio registration number and/or name or company name.	
	(5) Be detectable with conventional instruments for finding ferrous or magnetic objects.	
	(D) When a case arises, due to physical obstructions such as pavements, large rocks, large roots, utility cables, etc., so that neither a boundary monument nor a reference monument can be conveniently or practicably set in accordance with paragraph (C) of this rule, then alternative monumentation, which is essentially as durable and identifiable (e.g., chiselled "X" in concrete, drill hole, etc.) shall be established for the particular situation.	
	Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R. C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Dates: 05/01/1980; 11/01/2003	
	4733-37-04 Measurement specifications.	
	All measurements shall be made in accord with the following specifications:	

(A) The surveyor shall keep all equipment used in the performance of surveying in proper repair and adjustment (B) Every determination of distance shall be made either directly or indirectly in such a manner that the linear error in the distance between any two points (not necessarily adjacent points) shall not exceed the reported distance divided by ten thousand (allowable linear error = reported distance divided by ten thousand) and every angular measurement shall be made in such a manner that the allowable (directional) error, in radians, shall not exceed the allowable linear error divided by the reported distance (allowable (directional) error = allowable linear error divided by reported distance). When the reported distance is less than two hundred feet, the linear error shall not exceed 0.02 feet. The reported distance is the distance established by the survey. (C) In all new descriptions and plats of survey, the lengths and directions of the lines shall be specified so that the mathematical error in closure of the property boundary does not exceed 0.02 feet in latitudes and 0.02 feet in departure. (D) Surveys performed using metric measurements shall utilize the metric equivalents based upon the U.S. survey foot conversion factor. Effective date: 11/01/2003 RC. 119.032 review date: 08/18/2013 Promulgated Under: R. C. 119.03 Statutory Authority: R. C. 473.07 Rule Amplifies: R. C. 473.20Prior Effective Dates: 05/01/1980; 11/01/2003 4733-37-05 Plat of survey. (A) The surveyor shall prepare a scale drawing of every individual survey, or drawings comprising all of the surveys when they are contiguous, in which the surveyor retraces previously established property lines or establishes new boundaries. (B) A copy of this drawing shall be given to the client. When required, another copy shall be filed with the appropriate public agencies (C) The surveyor shall include the following details: (1) A title such that the general location of the survey can be identified. The title shall include, but not be limited to: state, county, civil township or municipality, and original land subdivision description (2) A north arrow with a clear statement as to the basis of the reference direction used. (3) The control station(s) or line cited in the description and the relationship of the property to this control must be referenced to an established monumented point of beginning such as, but not limited to: centerline intersection of streets or highways record, section or quarter section corners, Virginia military survey corners or lines, or platted lot corners. The type of monuments set or found at the control stations shall be noted. (4) A notation at each corner of the property stating that the boundary monument specified in the deed description was found, or that a boundary monument was set, or a legend of the symbols used to identify monumentation. In addition, there shall be a statement describing the material and size of every monument found or set. (5) A general notation describing the evidence of occupation that may be found along every boundary line or occupation line (6) The length and direction of each line as specified in the description of the property or as determined in the actual survey if this differs from what is stated in the deed description by more than the tolerance specified in paragraph (B) of rule 4733-37-04 of the Administrative Code. The length and direction shall be stated as follows:-(a) Bearings expressed in degrees, minutes and seconds and distances expressed in feet and decimal parts thereof on each course. If a metric equivalent distance is stated, it shall be stated to the third decimal place (b) All curved lines shall indicate the radius, central angle, curve length, chord bearing and chord distance. (c) Each course shall show other common lines such as centerline of roads, rivers, streams section lines, guarter section lines, half section lines or other pertinent common lines of record. (7) A citation of pertinent documents and sources of data used as a basis for carrying out the work. The citation shall include, but not be limited to: current deeds as of the date of the survey, prior deeds or other documents of record, and available deeds of record for adjoining parcels along each boundary line of the survey. If the adjoining parcel is a recorded subdivision, only the subdivision name, recording information and lot numbers need to be shown. (8) The written and graphical scale of the drawing (9) The date of the survey. (10) The surveyor's printed name and Ohio registration number, signature and seal (in a form which may clearly reproduce on any copies which may be made of the original drawing) (11) The area contained within the perimeter of the surveyed parcel. (12) All references to roads or railroads contiguous to the surveyed parcel shall use current names or names of record and applicable right of way widths, if available. (13) All references to rivers or streams shall use current names of record, if available. Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R. C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20

Prior Effective Dates: 05/01/1980; 11/01/2003

4733-37-06 Descriptions.		
(A) When a surveyor is called upon to prepare a new description, either to replace an existing description which is inadequate or to create a new piece of property, said description shall include the following items:		
(1) Sufficient caption so that the property can be adequately identified.		
(2) A relationship between the property in question and clearly defined control station(s).		
(3) The basis of the bearings.		
(4) A citation to the public record of the appropriate prior deed(s).		
(5) The surveyor's name, Ohio registration number and date of writing and/or survey.		
(B) A metes and bounds description shall include, in addition to paragraph (A) of this rule:		
(1) A description of the boundary monument used as the initial point of the description.		
(2) A series of calls for successive lines bounding the parcel, each of which specifies:		
(a) The intent in regards to adjoiners or other existing features.		
(b) The direction of the line relative to the direction of the basis of bearing.		
(c) The length of the line.		
(d) A description of the boundary monument (or reference monument) and whether found or set to identify the end of the particular line.		
(e) All curved lines shall indicate the radius, central angle, curve length, chord bearing, chord length and direction of the curve.		
(f) The reported boundary data shall meet the closure requirements of paragraph (C) of rule 4733- 37-04 of the Administrative Code.		
(3) The area of the parcel.		
(C) Descriptions other than metes and bounds descriptions may be a reference to a recorded survey plat or a parcel on a recorded survey plat and shall include sufficient and adequate legal and technical wording so that the property can be definitely located and defined.		
(D) A statement shall appear indicating that either: the description was made in accordance with a recent survey and the date thereof, or the description was made based on a previous survey, of a certain date, and date of description, or the description was not based on a survey.		
(E) When the surveyor knows a new description is to be used for a fee transfer, the surveyor shall base the description on a current or updated survey of the property.		
Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R.C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Dates: 05/01/1980; 11/01/2003		
4733-37-07 Subdivisions.		
When a subdivision is created from a piece of property, or several adjoining pieces, the following rules shall apply:		
(A) Rule 4733-37-02 of the Administrative Code shall apply to the original tract(s) of land prior to being subdivided.		
(B) Rule 4733-37-03 of the Administrative Code shall apply to the outside perimeter of the original tract(s) of land and to the outside perimeter of the newly created subdivisions. All newly created lots, blocks, rights of way, angle points, points of curvature and points of tangency shall be monumented according to local regulations. Street rights of way may be monumented with monuments on the centerline instead of right of way monuments. Centerline or right of way monuments shall be set at all intersections, angle points, points of curvature and points of tangency.		
(C) All newly created subdivisions shall comply with rules 4733-37-04 and 4733-37-05 of the Administrative Code.		
(D) All easements within a newly created subdivision shall be accurately dimensioned so that each easement line can be reproduced without ambiguity.		
Effective date: 11/01/2003 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R. C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Date: 11/01/2003		
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Engineers and Surveyors Board Laws and Rules | Ohio A.C. section 4733-38

Board Site Links	Standards For Mortgage Location Surveys	Laws and Rules Links
	4733-38-01 Preamble.	R.C. Chapter 4733 Laws Index
Acronyms Definitions	These standards are intended to be the minimum requirements for mortgage location surveys in	A.C. Chapter 4733 Rules Index
Address Name Change	the state of Ohio.	Complete Chapter 4733 Laws
Board Members Staff	A "mortgage location survey" shall be defined as an instrumentality, common to the mortgage lending industry, whereby substantial proof is submitted to the mortgage lender and/or title insuror	and Rules on one page
Board Minutes	that the building(s) and/or other improvements are actually located on the land covered by the legal description in the mortgage and that said mortgage location survey is a professional service	Complete R.C. and
Board Opinions	provided by professional surveyors solely for the intent of and use by the mortgagee and/or title insuror. The mortgage location survey does not constitute an improvement to the property, and is	A.C. Online
Calendar Meetings	only a professional opinion which these parties may use as a guide to arrive at any decisions they may wish to make concerning said real property.	Ohio R.C.
Fees	Effective date: 02/15/1990	[Revised Code Online]
Forms	R.C. 119.032 review date: 08/18/2013 Promulgated Under: R.C. 119.03	includes all statutes of a permanent and general nature of
Laws and Rules	Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Date: 02/15/1990	the state as revised and consolidated into general
News Releases	4733-38-02 Research and investigation.	provisions, titles, chapters, and sections including all bills
Newsletters	(A) The professional surveyor shall use the description furnished by the client to perform the	passed and filed in the Secretary of State's office through October
Public Hearings	mortgage location survey. If the professional surveyor determines the description to contain apparent incompleteness or insufficiencies, the professional surveyor shall so advise the client.	21, 2011. Ohio A.C.
Reinstatement	(B) After all necessary written documents, as furnished by the client, have been analyzed, the	
Rosters	survey shall be based on a field investigation of the property. The professional surveyor shall make a thorough search for physical monuments and analyze evidence of occupation.	 Administrative Code Online] contains a codification
Seals P.E., P.S.	Effective date: 02/15/1990 R.C. 119.032 review date: 08/18/2013	of the rules of the administrative agencies of the state and is
Verifications	Promulgated Under: R.C. 119.03 Statutory Authority: R.C. 4733.07	updated for all regulations filed and adopted through October
20110504	Rule Amplifies: R.C. 4733.20 Prior Effective Date: 02/15/1990	17, 2011.
	4733-38-03 Monumentation.	
	The professional surveyor need not set boundary monumentation under the provision herein unless the client requests boundary monumentation be set. If requested to set boundary monumentation, the professional surveyor shall conform to all provisions of rule 4733-37-03 of the Administrative Code.	
	Effective date: 05/15/1990 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R.C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Date: 05/15/1990	
	4733-38-04 Measurement specifications.	
	All measurements shall be made in accordance with the following specifications:	
	(A) The professional surveyor shall keep his equipment in such repair and adjustment as to conform to the provisions of paragraph (A) of rule 4733-37-04 of the Administrative Code.	
	(B) Every measurement of distance shall be made either directly or indirectly in such a manner that the linear error in the reported distance shall not exceed:	
	(1) Two-tenths of a foot for major improvements [see paragraph (G) of rule 4733-38-05 of the Administrative Code].	
	(2) One-half of a foot for major improvement location [see paragraph (J) of rule 4733-38-05 of the Administrative Code].	
	When a case arises wherein a greater linear error will not create ambiguity of locations (i.e., tracts where the improvements are located substantial distances from boundaries), then the professional surveyor may use a greater linear error, provided the tolerance is clearly indicated on the survey plat (e.g., 500 feet +/- 5 feet).	
	Effective date: 05/15/1990 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R.C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Date: 05/15/1990	

	4733-38-05 Mortgage location survey plat.	
	The professional surveyor shall include the following information on the mortgage location survey plat.	
	(A) A title such that the general location of the survey can be identified.	
	(B) A north arrow.	
	(C) The boundary lines as cited in the legal description, including pertinent references therein.	
	(D) The written and graphical scale of the drawing.	
	(E) The date of survey.	
	(F) The professional surveyor's name, registration number, signature, and seal in accordance with paragraph (C)(10) of rule 4733-37-05 of the Administrative Code.	
	(G) Major improvements (permanent structures) shall be shown with dimensions and description (e.g., residence, garages, outbuildings with foundation, in-ground pools, and the like).	
	(H) Easement limits and building set-back lines as indicated on the recorded plat or as supplied by the client.	
	(I) Visible utility facilities requiring an easement and located outside known easements, crossing the subject property and serving others, such as, though not limited to: pole lines, manholes, inlets and pedestals and the like.	
	(J) Major improvement locations shall be shown with dimensions to the nearest property lines, with a minimum of two dimensions shown, and shall be sufficient to locate the structure (offsets shall be shown perpendicular to straight property lines and radially to curved property lines).	
	(K) Apparent encroachments shall be noted and shown in an obvious manner.	
	(L) The address posted on the building(s), if available.	
	(M) Observed problems of ingress and egress and joint drive.	
	(N) Fences or other evidence of possession when not in substantial conformance with the legal description.	
	(O) A statement shall appear on the plat indicating that the survey is a mortgage location survey prepared in accordance with Chapter 4733-38 of the Administrative Code, and is not a boundary survey pursuant to Chapter 4733-37 of the Administrative Code.	
	(P) Number each page showing individual page numbers along with number of pages.	
	Effective date 05/15/1990 R.C. 119.032 review date: 08/18/2013 Promulgated Under: R.C. 119.03 Statutory Authority: R.C. 4733.07 Rule Amplifies: R.C. 4733.20 Prior Effective Date: 05/15/1990	
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