



City of Santa Barbara
Public Works Department
**DIGITAL SUBMITTAL STANDARDS
FOR PARCEL/FINAL MAPS AND
RECORD OF SURVEYS**

This specification should be used for the digital submission of cadastral maps to the City of Santa Barbara, per Municipal Code Chapter 27, (§27.10 and 27.30) (Ordinance No. 5120).

INTRODUCTION

Use of digital mapping systems is prevalent in local government organizations. Typically a parcel level landbase is developed to serve numerous users in a multitude of applications. A major objective of such systems is to reduce redundancy and duplication in map maintenance. To enable automation of both the map checking and landbase maintenance process, digital submission of cadastral surveys has been mandated in local ordinances for Maps prepared under the requirements of the Subdivision Map Act.

This specification has been written to take advantage of the ability of private organizations that are producing cadastral maps in a CADD environment to transmit this data quickly and efficiently. The intent of this specification is to enable the hardcopy and digital submissions to be produced from the same digital data without modification, and to receive cadastral map drawings in digital form.

The recent ordinance established by the City of Santa Barbara does not require digital submittal, however the use of these voluntary standards is encouraged. Survey firms wishing to submit their maps digitally according to these standards will receive free of charge from the City a CD-ROM containing the following:

- City's digital topographic map
- Metadata for the digital topographic map
- An AutoCAD drawing containing the survey control points of the Santa Barbara Survey Control Network
- Scanned images of the monument recovery sheets for the survey control points
- Photographs of the survey monument locations
- An AutoCAD Release 14 template drawing for use in preparing the record map.

DATA INTEGRITY REQUIREMENTS

All coincident points on the external boundary will have the same coordinate values, i.e., boundary lines will be coterminous. Digital line work must be geometrically correct with real coordinates.

The difference between distances calculated by inverting between the coordinates of points in the digital submission and the annotated distances shall not exceed 0.01 feet.

**The above addresses Public Works Department concerns and requirements.
Other City Divisions/Departments may have additional requirements.**

For information call (805) 564-5388

City of Santa Barbara Public Works Department

630 Garden Street, Santa Barbara, California, 93101

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The difference in seconds between bearings calculated by inverting between the coordinates of points in the digital submission and the annotated bearings shall not exceed 0.01 seconds.

FORMAT FOR DIGITAL SUBMISSIONS

The required format for digital submissions of the graphic data is an AutoCAD Release 14 .dwg file. All drawing elements on the layers specified below must be created in model space only.

DATA LAYERING REQUIREMENTS

<u>Layer Name</u>	<u>Description</u>	<u>Color</u>	<u>Linetype</u>
Pcl	Legal lot lines	White	Continuous
Centerline	Centerlines, if present	Green	Long dash, short dash
Rowpub	Right of way, public	Red	Continuous
Rowpvt	Right of way, private	Green	Continuous
Rowst	Right of way, state	Magenta	Continuous

MONUMENT SYMBOLS

Three monument symbols will be used. Santa Barbara Control Network points will be represented by a solid triangle, found monuments will be represented by a solid circle, and set monuments will be represented by open circles. Monuments will be numbered and the monument description will be called out separately as required.

MEDIA REQUIREMENTS FOR DIGITAL MAP SUBMITTALS

The following section defines acceptable media for the submission of cadastral surveys in digital form. This information should be used in conjunction with the specification for digital submission of cadastral surveys. The submitter will be responsible for storage of the digital data until final acceptance by the City.

Submissions will be accepted only on 3½” diskettes or CD-ROM. If the files are too big to be zipped and provided on a 3½” diskette, they shall be written to a CD-ROM or zipped across multiple disks. If they are provided zipped, they must be zipped using a current version of WinZip.

All diskettes must be submitted with labels indicating the following data and signed by the Licensed Surveyor/Registered Civil Engineer submitting the map. The purpose of the signature is to verify the transmittal of the data, not professional responsibility for the data. It shall be mutually understood that delivery of the digital data does not constitute a professional delivery of the Parcel/Final Map.

Example:

MAP PM 20,336 (Parcel Map) or FM 20,336 (Final Map)
DATE October 18, 1999
COMPANY McGee Land Surveying
LS/RCE Michael R. McGee
REG NO LS 3945

CHECKING OF DIGITAL DATA

The digital data will be checked for the following criteria:

- Correct layering
- Closure of the geometry of the boundary
- Verification that digital and hard copy maps are consistent
- Correct geographical position, i.e. correct coordinate values

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