

Technical Guidelines for the Construction of Edited Cadastral Database in Seoul

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I.	IV.
II.	V.
II.	

ABSTRACT

Seoul Metropolitan Government has a plan to finish up the construction of 1:1,000 scale digital topographic map based on airphoto interpretation method by the end of 1998. The digital map will be used as a basemap of the government's GIS (Geographic Information System). The digital topographic map, however, does not include property information such as cadastral and urban planning data that are essential for the GIS database of Seoul.

This study aimed to develop a set of technical guidelines for the construction of edited cadastral map through 1) task analysis of the departments related to urban planning of the Seoul Metropolitan Government, 2) analysis of the inconsistency between topographic map and cadastral map, and 3) comparison of technical methods for the integration of GIS data that have different accuracy.

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I.

1995

가GIS

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6 1:1,000 1997 , 1998

GIS 1

가

GIS

, 1982

가

, GIS 가

2

가

가

GIS

(TM 201500, 451160 ~ 201900, 452360) 400m × 1200m

1:500, 1:600, 1:1,200 24 4

24

II.

2.1

가

3가 (1).

50% 58%가

.(, 1997).

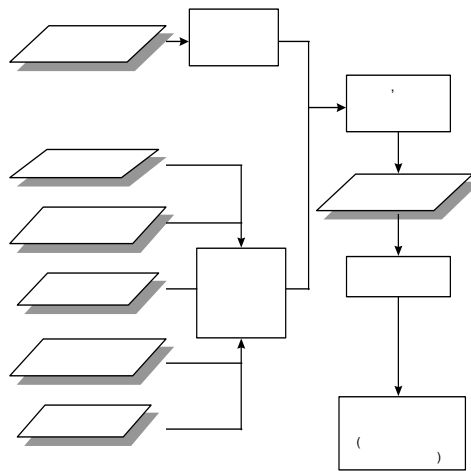
1) GIS 1:1,000 가 , GIS

2) 1:1,000 “ ”

가 , , 가 , , 가 . 가 .

1:5,000, 1:25,000 1:50,000, 1:3,000
 1:500 1:1,500 1:3,000 1:6,000() .

< 1> (, 1997).



가 , < 1> ,

移記 가 .

, ,

가 .

(1:1,200) 가

()

400

1998 12

가

, Intergraph Microstation

DGN

2.4

(basemap)

1:1,000

가

가

III.

3.1

不符合

가

1910

가

. 1978

가

가

가 , , 가 , , 가 (,1996). . , , , , 가 (,1993). .

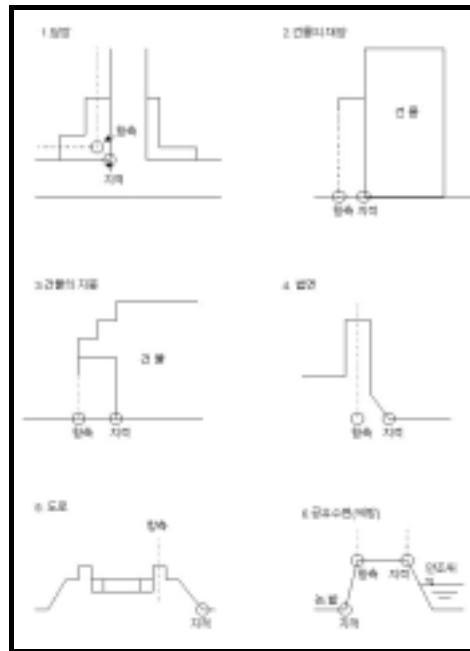
3.2

가 . 1910 , 가 가 가 가 20 30 , 1910 3 4 가 1985 , 15 20% 가 , , (,1997).

3.3

가 . 가 가 가 가 .

3.4



< 2>

(; , 1996)

< 2>

가 6.25

가 가 가 .

IV.

가 가 GIS ,

,

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4.1

1:1,000 , GIS 가

(transformation), (rubber-sheeting) 1:1,200

(move) .

(transformation)

, GIS (projection)

.

(translation), (scaling), (rotation) 3가 .

3가 (x, y)

(u, v) .

$$u = a + bx + cy$$

$$v = d + ex + fy$$

(u, v) 6 (a~f)

3 x, y u, v . x, y u, v가 3 6

가

. affine ,

curvilinear , affine

.

(rubber-sheeting) ,

,

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,

,

,

,

,

.

(move)

,

. (rotation)

(pivot point)

가

< 4> .³

	<p>,</p> <p>.</p> <p>가</p> <p>.</p>	<p>가 ,</p> <p>가 , ,</p> <p>가</p> <p>.</p> <p>overshoot undershoot</p>
	<p>가</p> <p>.</p>	<p>,</p> <p>가</p>
	<p>가 가 .</p> <p>.</p>	<p>가</p> <p>.</p>

< 3>

4.2

1:1,000

가

가 ,

1:3,000 .

,
. 1:3,000 1:1,200

가 가 .

³⁾ 3가

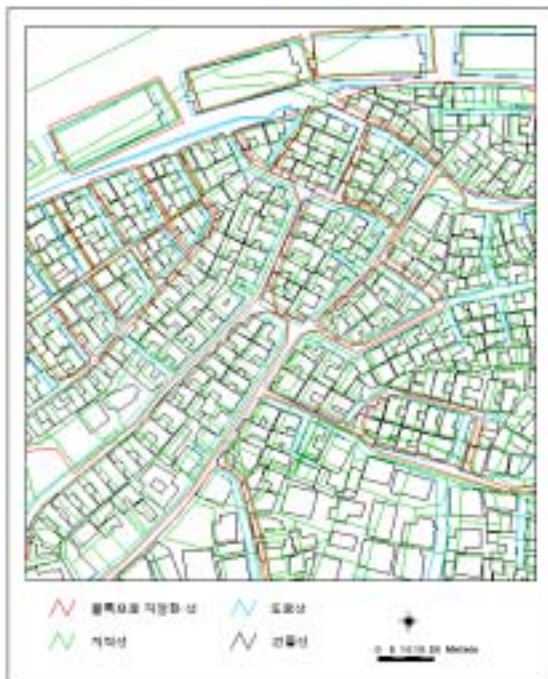
(1997) pp. 93-96

- 가
- (1:3,000 1:6,000)
- 가
- (tic) 4 가 ,
- (3).
- (grouping) 1:600, 1:1,200 ,
- 가 가
- (4).
- III 가 ,
- 가
- (move) (rotate)
- 가

(4).

(4).

(5).



< 3>



< 4>

2)

GIS 가 ,

Arc/Info 7.0.2 AutoCAD r.12

3가

가.

1:500() 1:600() 1:1,200()
1:3,000() 1:6,000()

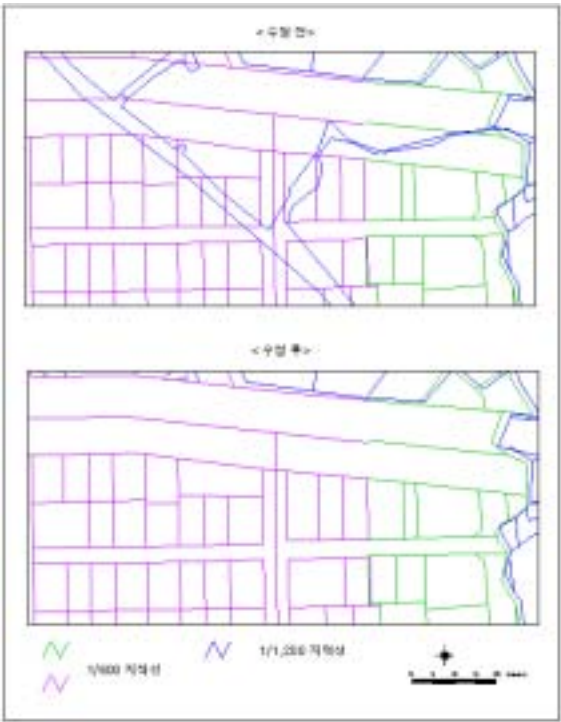
가

가

(6).



< 5> 가



< 6>

(7).

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成筆 (8).

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< 7> ()



< 8> ()

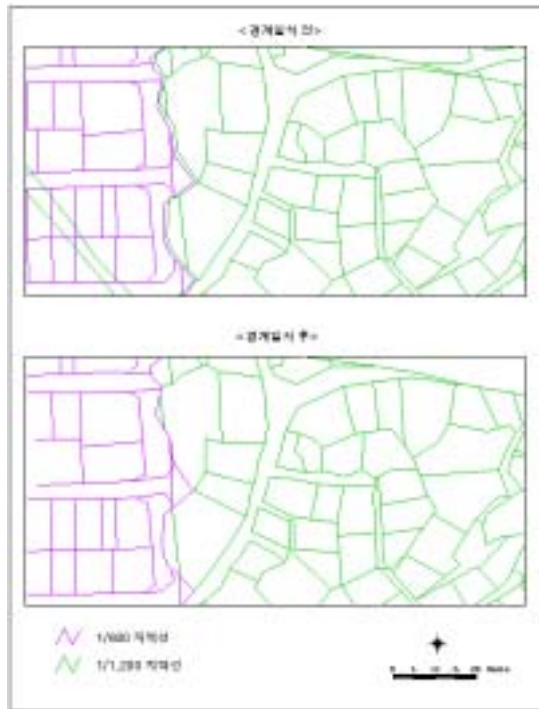
가 (9).

가

(10)

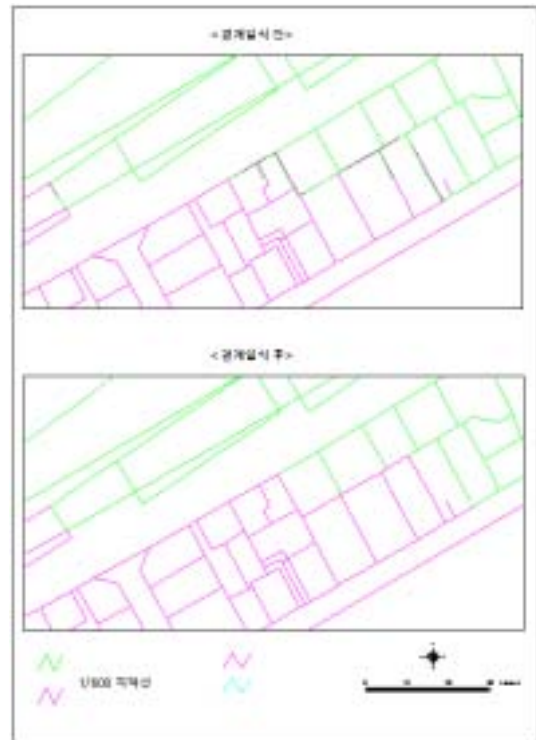
가

가



< 9>

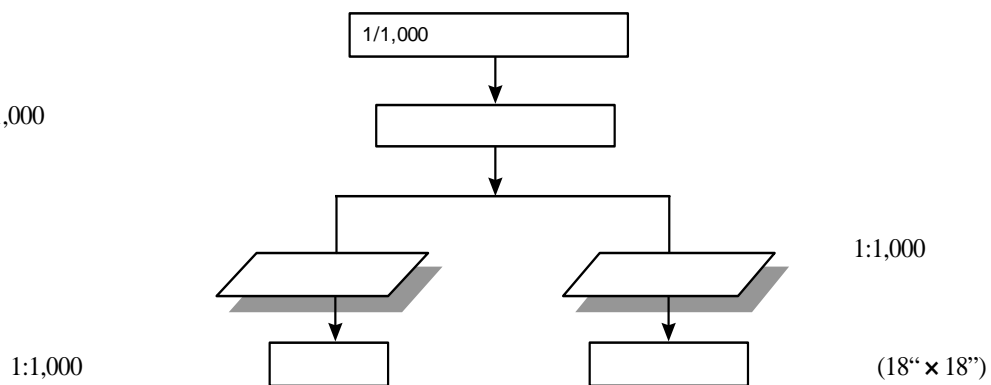
()



< 10>

< 11>

3) 1:1,000



1:1,000

1:1,000

(18" x 18")

< 11>

1:1,000

< 12>

V.

1995 가

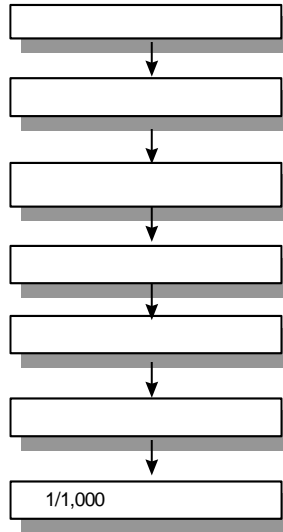
1:1,000

6 1:1,000

가

가

가



(NGIS)

1997

1998

GIS

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GIS

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- , 1994, 『』 ()』 .
- , 1991, 『』 ()』 .
- , 1994, 『』 .
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