(   )

CAD   .

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CAD   .

,   ,

,   ,   ,

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,   .

.

AutoCAD   ,

.

■

1.   .
2.   .
3.   (BOM, Bill Of Material)   .
4.   ,
.
5.   .
6.   .

,   ,

,
.

,

CAD
.

(NGIS,
National Geographic Information System)
(FMS, Facilities Management System)
.

, , .

.

■ ISO 13567

ISO 13567 .

1	2	3	4	5	6	7	8	9	10

1. Agent Responsible ( ) : (Civil, Architect)
2. Element ( ) : (ROADAL, RDBRDG)
3. Presentation ( ) : , 3D (ANnotation, MText)
4. Status ( ) : , (New, Exist, Remove)
5. Sector ( ) : , , , (01A, 10F)
6. Phase ( ) : , , (1, 2, 3)
7. Projection ( ) : (,)
8. Scale ( ) : (1, 2, A, B)
9. Work Package ( ) :
10. User Defined ( ) :

ISO 13567

.

, ,

.

■

1999 (NGIS, National Geographical Information System) ( )

.

KICS.KO-10.0067 : NGIS ( )

TTA-KO-10.0096 : NGIS (,)

1	2	3		

1. : (A, B, C)

A		.
B		.
C	/	, , .
D		, , .
E	/	, , , .
F		.
S		.
Z		, , .

2. : (E,F,G)

3. : , 000( )~999( ) 3

AD001 : AF001 : BA001 : CA001 :

1 . CA (
) A,B,C .

CA001( ) →
CAA001( ) CAA002( ) CAA003( ) CAA004( )

2

.

■

,

.

CALS

.

1	2	3	4

( )		
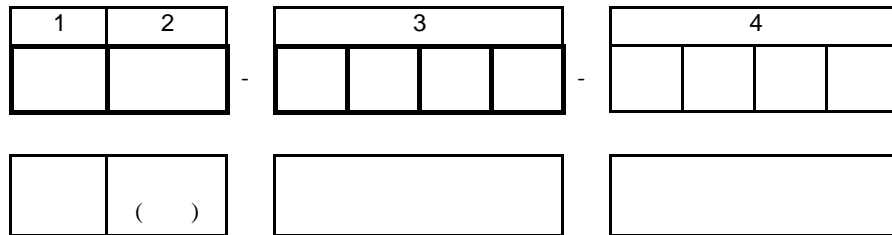
1.   :   (C),   (A),
      (L),   (E),   (M)   1   .
[1   ]
2.   -   :   '   '   .
      (G),   (E),   (D),   [   ](S),   (P),   (M),
     (L),   (X)   (R)
     (C)   1   . [1   ]
3.   :   4
            .   ANNO   ANNO
   . [4   ]
                         → CE-CNTK (**CoNT**our **K**yegok)
                   → CE-ACNT (**A**lign **CeNT**erline)
               → CE-BOXN (**BOX**culvert **N**ew)
          V   → CD-SDLV (**S**ide **D**itch **L**ine - **V**type)
             → CM-PAKL (**P**ar**K**ing **L**ot)
4.   :   .
                       4   .
   ,   . [4   ]
            "CE-ACNT   ", "CE-ACNT-**BCH1**", "CE-ACNT-**RMPA**"
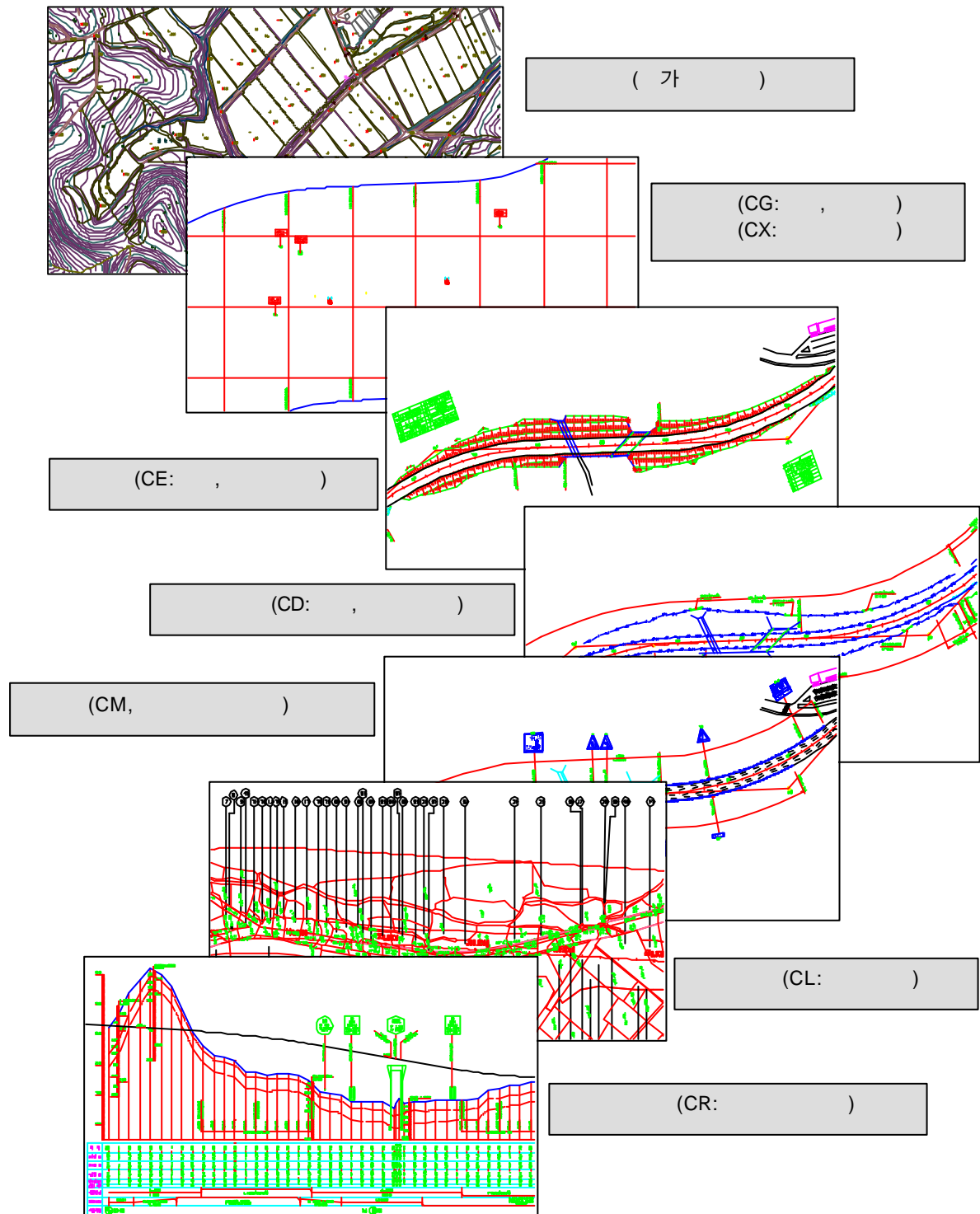   : "CD-SDLV-**TYP3**", "CD-SDLU-**TYP2**"

     2005   CALS   CALS/EC
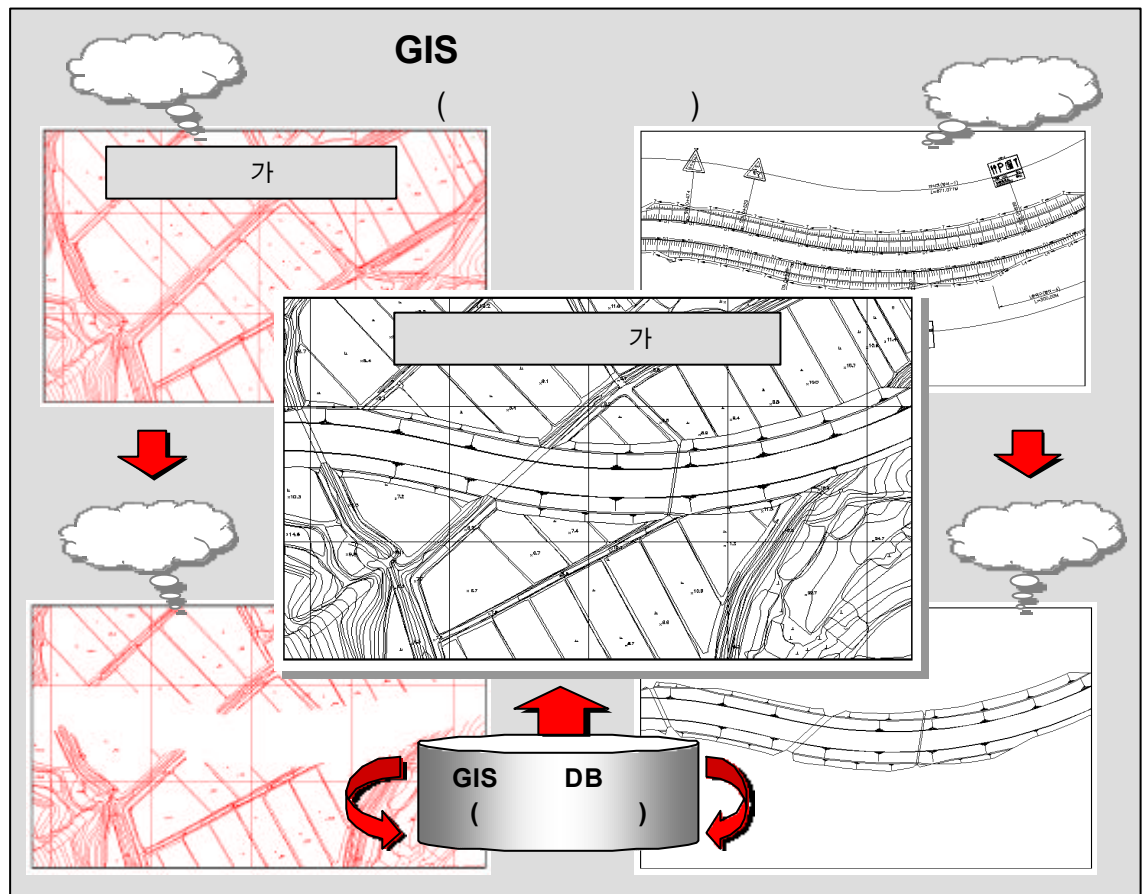   5   .

.

■

1.

( )

(CG: ,)
(CX:)

(CE: ,)

(CD: ,)

(CM,)

(CL:)

(CR:)

6-6

2. ( )

12   - 8
(STA. 1+ 200.000~ 1+ 320.000)

(CX:)

3. (, ,)

(2, 5, 8)   (1)

E-E   F-F

(CS:)

CAD   (NGIS, UIS, FMS,   , LIS)
.

GIS
.

.

GIS

(   )

GIS   DB
(   )

GIS

GIS

GIS   .

.

6-8

-                              ,
                        .

-                       (FMS)   (LIS)   GIS
             ,   (, ,   ,
)   ,   (,   )
             (DB, Load)   GIS
          ,   GIS   .

AutoCAD 256   .
                                                              .

①
②
③   Base Map

1   (bylayer)   .

2   .

■

LAYER

        1~ 255
                9
    .

1.   (Red)
2.   (Yellow)
3.   (Green)
4.   (Cyan)
5.   (Blue)
6.   (Magenta)
7.   (White)
8.   50% (Gray50%)
9.   10% (Gray10%)

색상 선택

표준 색상

( )
1~ 9 color

회색 음영   논리적 색상

BYLAYER   BYBLOCK

전체 색상 팔레트

색상: ER

확인   도움말

(,)
10~255 color

                                                  .

                                                         .

                                                              .

1.   1~ 7   .

2.   1~ 7   →
        .
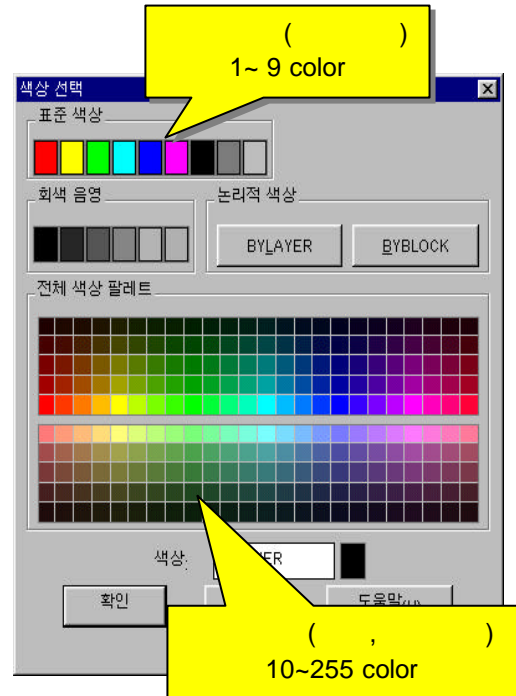
3.   10   (base map)

.

5. 10 back ground
(=),
.

6. ( )
(0.18mm) .

■

( )

. *( )*

AutoCAD		(R)	(G)	(B)	(mm)
1	(RED)	255	0	0	0.18
2	(YELLOW)	255	255	0	0.18
3	(GREEN)	0	255	0	0.25
4	(CYAN)	0	255	255	0.25
5	(BULE)	0	0	255	0.35
6	(MAGENTA)	255	0	255	0.35
7	(WHITE)	255	255	255	0.50
8	(GRAY 50%)	128	128	128	0.70
9	(GRAY 25%)	192	192	192	1.00
10~255			GRAY		0.18

0.00mm
0.05mm
0.09mm
0.13mm
0.15mm
0.18mm
0.20mm
0.25mm
0.30mm
0.35mm
0.40mm
0.50mm
0.53mm
0.60mm
0.70mm
0.80mm
0.90mm
1.00mm
1.06mm
1.20mm
1.40mm
1.58mm
2.00mm

7-1. LAYER(   )

```
      :       (FORMAT) →          (LAYER)
Command : LAYER, -LAYER

Tool Bar :          (Object Properties toolbar) →  ⬓
```

*   : -LAYER*

?/   (N)/   (S)/   (N)/   (ON)/   (OFF)/   (C)/   (L)/   (F)/
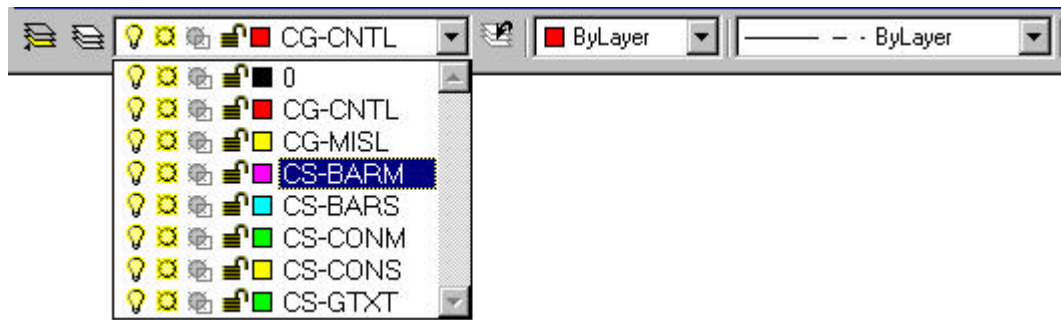*   (T)/   (LO)/   (U):*

*   : LAYER*   ⬓

■

.

(New)   ' CS-REBM   .

.

색상 선택 대화상자 (이미지)

: DDCOLOR

(LINETYPE)

.

선종류 선택 대화상자 (이미지)
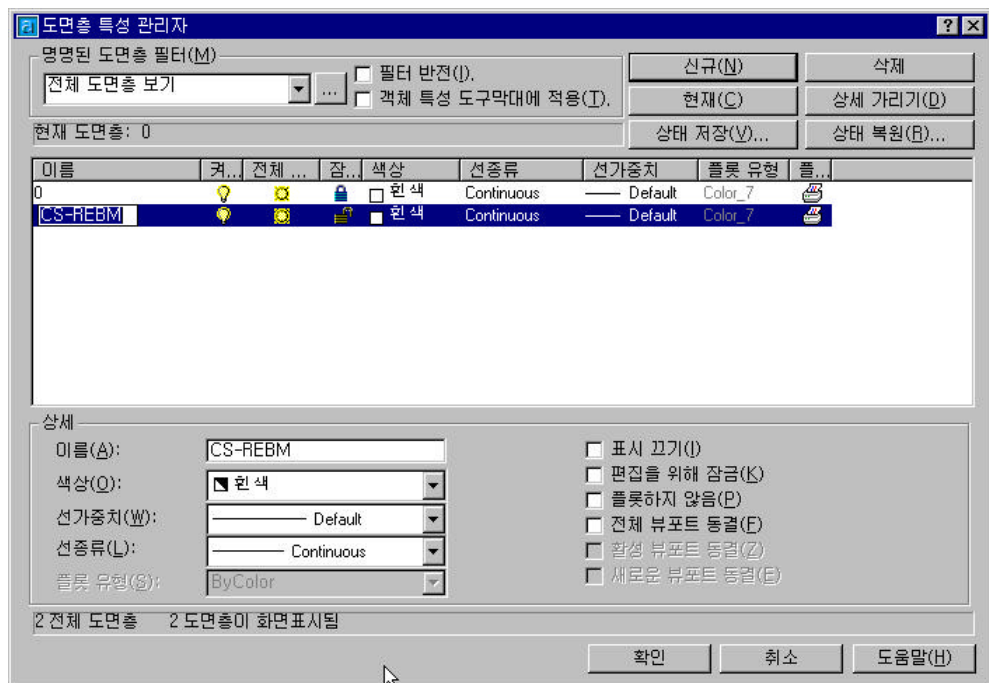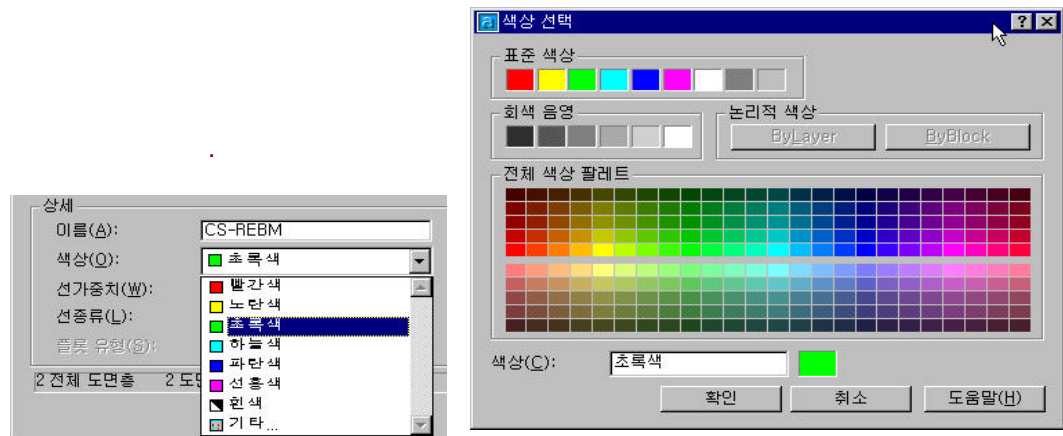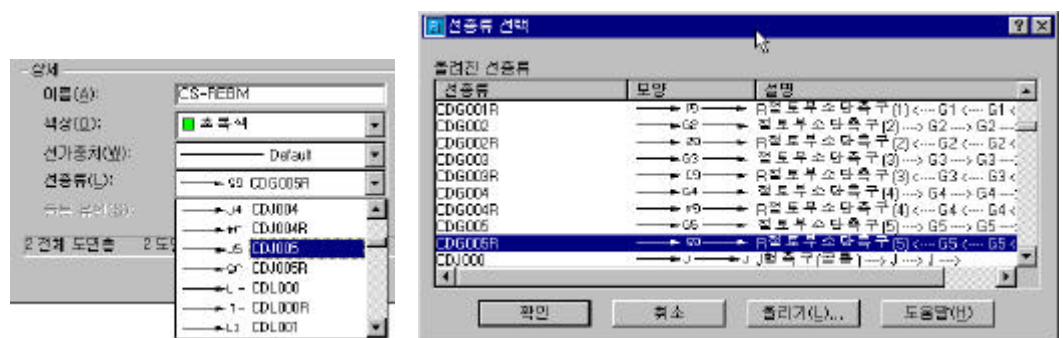
● ... loading .

● AutoCAD 0 .
0 7( ),
CONTINUOUS , (0.01 .25 mm) NORMAL
, 0 .

.

: CS-CONM 3 Continuous

: CS-CONS 2 Dashed

: CS-BARM 6 Continuous

: CS-BARS 4 Hidden

: CS-GTXT 3 Continuous

: CG-CNTL 1 Center

: CG-MISL 2 Continuous

■   (Current Layer Set)

               (Current Layer)   .

          .

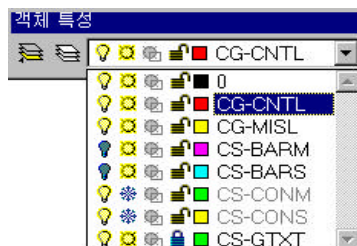### Object Properties ToolBar List

Object Properties ToolBar   ICON ⬓   …

               .

             :

CS-CONS   ( )   .

      : *- LAYER*

?/   (M)/   (S)/   (N)/   (ON)/   (OFF)/   (C)/   (L)/   (F)/ (T)/   (LO)/   (U): S

          <CS-BARM>: CS-BARM

?/   (M)/   (S)/   (N)/   (ON)/   (OFF)/   (C)/   (L)/   (F)/ (T)/   (LO)/   (U): →

■

                           .

6-14

(ON/OFF)

．

(Freeze/Thaw)

．

■

(Lock/Unlock)

．

● dialogue
match string ．

: - LAYER

*?/ (M)/ (S)/ (N)/ (ON)/ (OFF)/ (C)/ (L)/ (F)/
(T)/ (LO)/ (U): OFF*

( ) <>: CS-CON* ←

*?/ (M)/ (S)/ (N)/ (ON)/ (OFF)/ (C)/ (L)/ (F)/
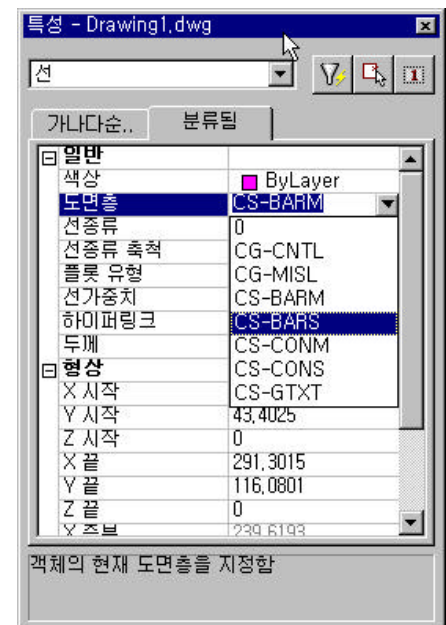(T)/ (LO)/ (U): →*

■ LAYER

1.

2.
．

PROPERTIES

．

: PROPERTIES 🎨

: : 2

:

PROPERTIES   *DDMODIFY*   *DDCHPROP*

.

CHPROP(   )

: **CHPROP**

:   : 2

: →

((*C*) ／   (*LA*) ／   (*LT*) ／   (*S*) ／   (*T*)) *?* **LA**

<CS-BARM: **CS-BARS**   ←

((*C*) ／   (*LA*) ／   (*LT*) ／   (*S*) ／   (*T*)) *? →*

7-2. LINETYPE(   )

```
        :        (FORMAT) →          (LINETYPE)
Command : LINETYPE, -LINETYPE
Tool Bar :          (Object Properties toolbar) →  ▦
```

                    ,   ,
                .   -
        ,
                                .

■ LINETYPE

   (AutoCAD)\SUPPORT\   ACADISO.LIN   ACAD.LIN
              (Decimal)   ACADISO.LIN   ,   (English)
   ACAD.LIN   loading   .

   ISO   (Meter)   ACAD.LIN(,   )   x 25.4
        . (1"=25.4mm)

   ● **ACAD.LIN**

   *DASHED,Dashed __ __ __ __ __ __ __ __ __ __ __ __ _

   A,.5,-.25

   *DASHED2,Dashed (.5x) _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

   A,.25,-.125

   *DASHEDX2,Dashed (2x) ____ ____ ____ ____ ____ ___

   A,1.0,-.5

        →   :   (Pen down),   (Pen Up)

   *GAS_LINE,Gas line ----GAS----GAS----GAS----GAS----GAS----GAS--

   A,.5,-.2,["GAS",STANDARD,S=.1,R=0.0,X=-0.1,Y=-.05],-.25

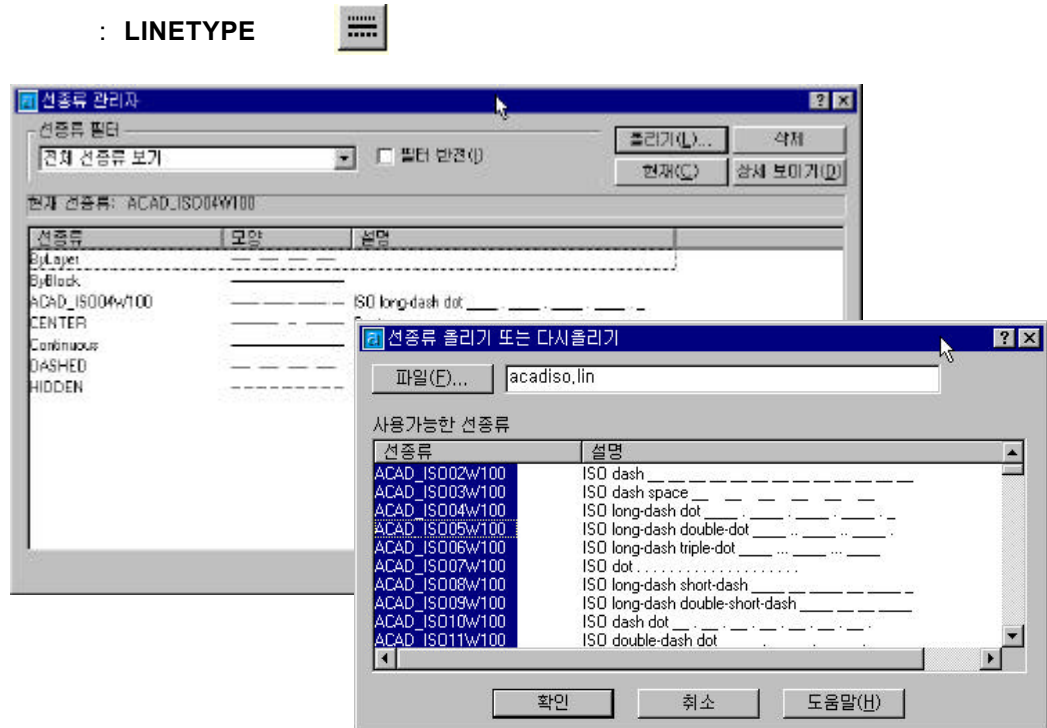   →   : ["string",style,S=scale,R=rotate,X=xoffset,Y=yoffset]

   *ZIGZAG,Zig zag /\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

   A,.0001,-.2,[ZIG,ltypeshp.shx,x=-.2,s=.2],-.4,[ZIG,ltypeshp.shx,r=180,x=.2,s=.2],-.2

        →   : [shapename,shapefilename,scale,rotate,xoffset,yoffset]
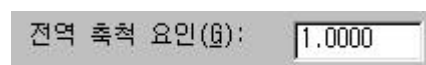
■ LINETYPE

: **LINETYPE**

1.   ...   .

2   Ctrl+A
.

■ LINETYPE   (LTSCALE)

(Continuous)
.

10   . (:   1/50
LTSCALE=50x10=500)

LTSCALE   DIALOGUE

전역 축척 요인(G): |1.0000|

: **LTSCALE**

<1.0000>: **10**

선종류 축척=1   선종류 축척=0.7   선종류 축척=0.4

6-18

● BYLAYER .

.

.

, Object Properties ToolBar
bylayer .