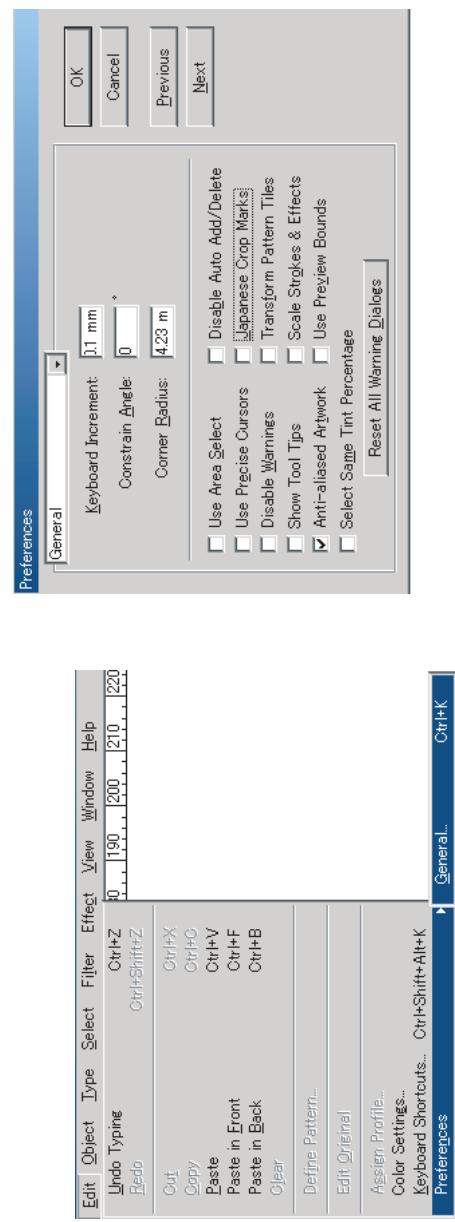


Digital Map Symbolization Manual

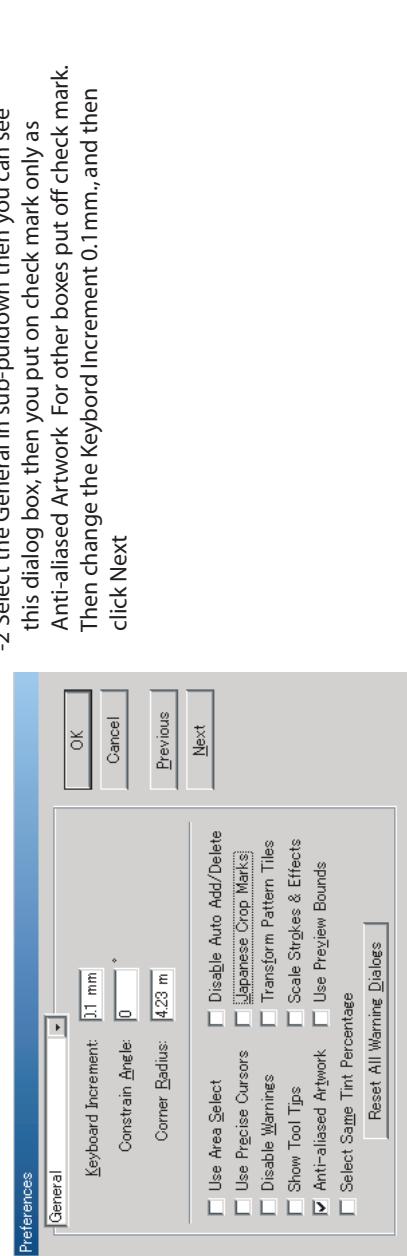
Preferences Setting

Before editing one should set Preferences in Illustrator

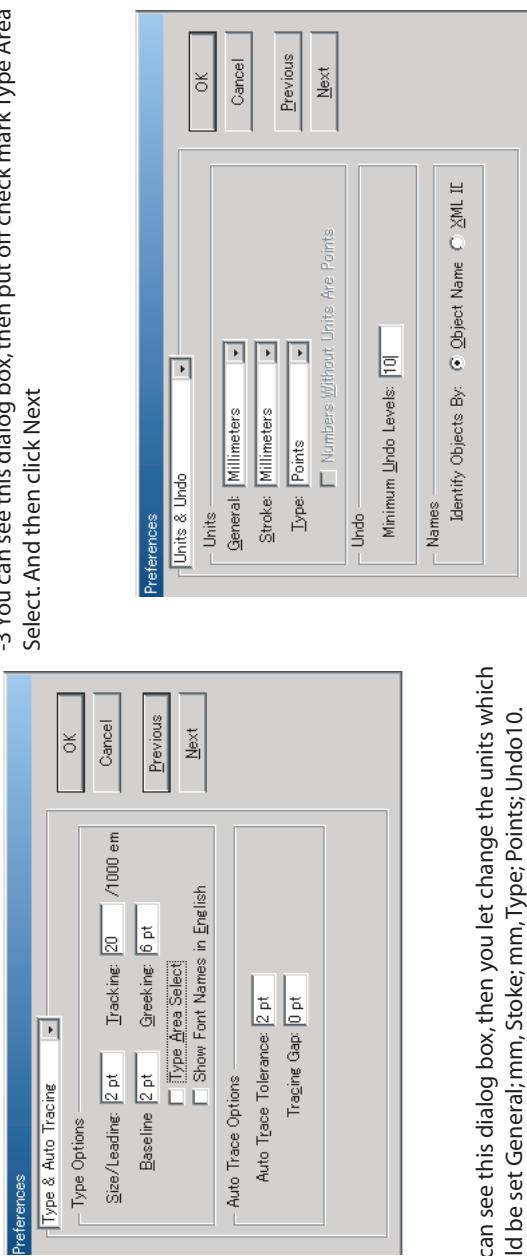
-1 Select Edit then you let see pull down menu then select the Preference



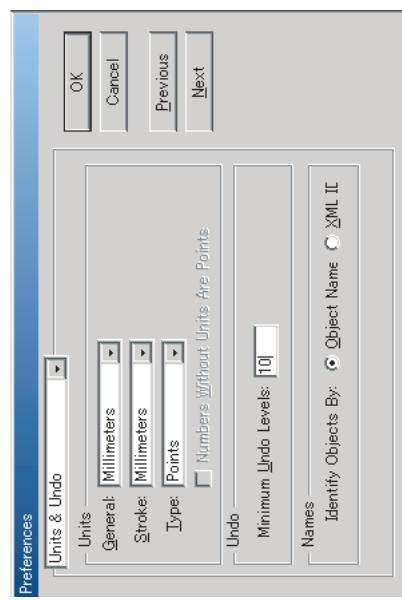
-2 Select the General in sub-pulldown then you can see this dialog box, then you put on check mark only as Anti-aliased Artwork For other boxes put off check mark. Then change the Keyboard Increment 0.1mm., and then click Next



-3 You can see this dialog box, then put off check mark Type Area Select. And then click Next

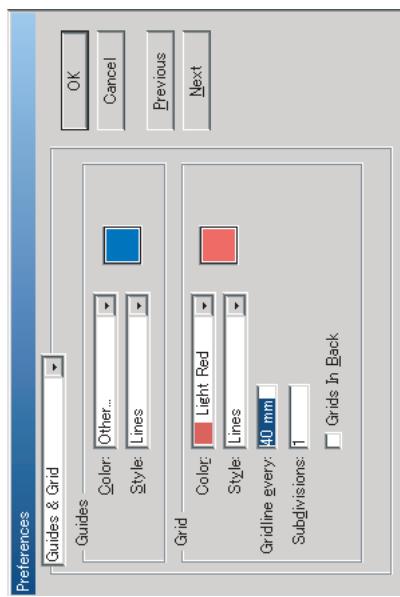


-4 You can see this dialog box, then you let change the units which should be set General:mm, Stroke:mm, Type:Points; Undo:10. And then click Next.

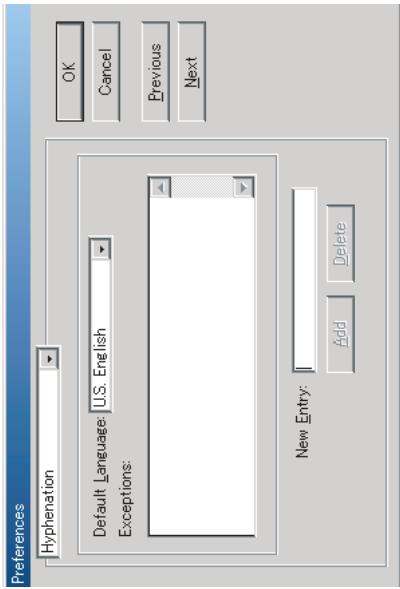


Setting Preference

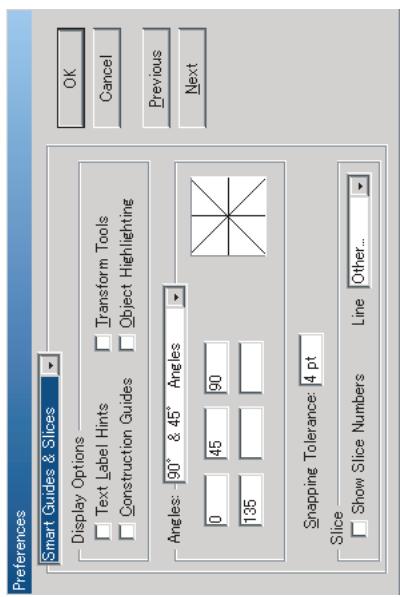
Before editing you should set preferences on the Illustrator.



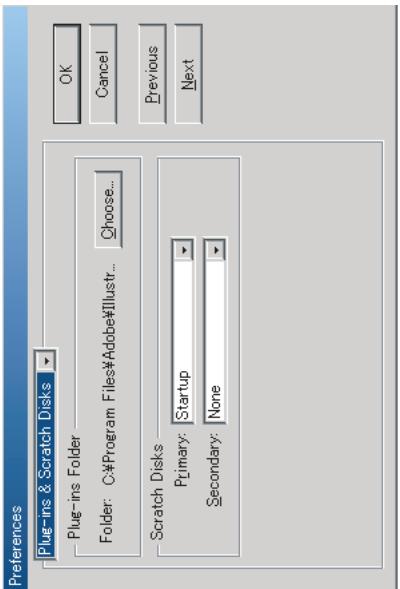
-4 You can see this dialog box,
then you put off check Grids in Back
and then click Next.



-6 You can see this dialog box,
usually it is not need to change
then click Next.



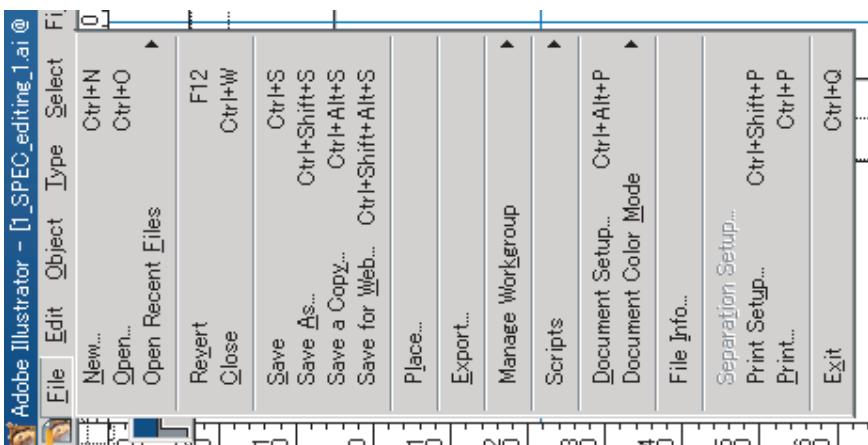
-5 You can see this dialog box,
then you put off the all check box
and then click Next.



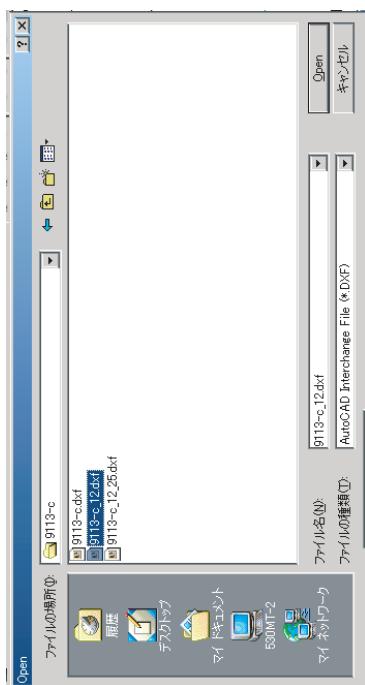
-7 You can see this dialog box,
usually it is not need to change
then click OK.

How to edit map by using s/w Illustrator Guidelines on the DXF file Import.

-1 Select File then you let see pull down menu
then select the Open or Place.



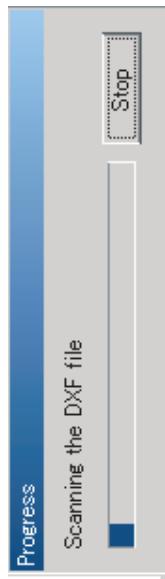
- 2 Select the target DXF file then Open



- 3 OK enter

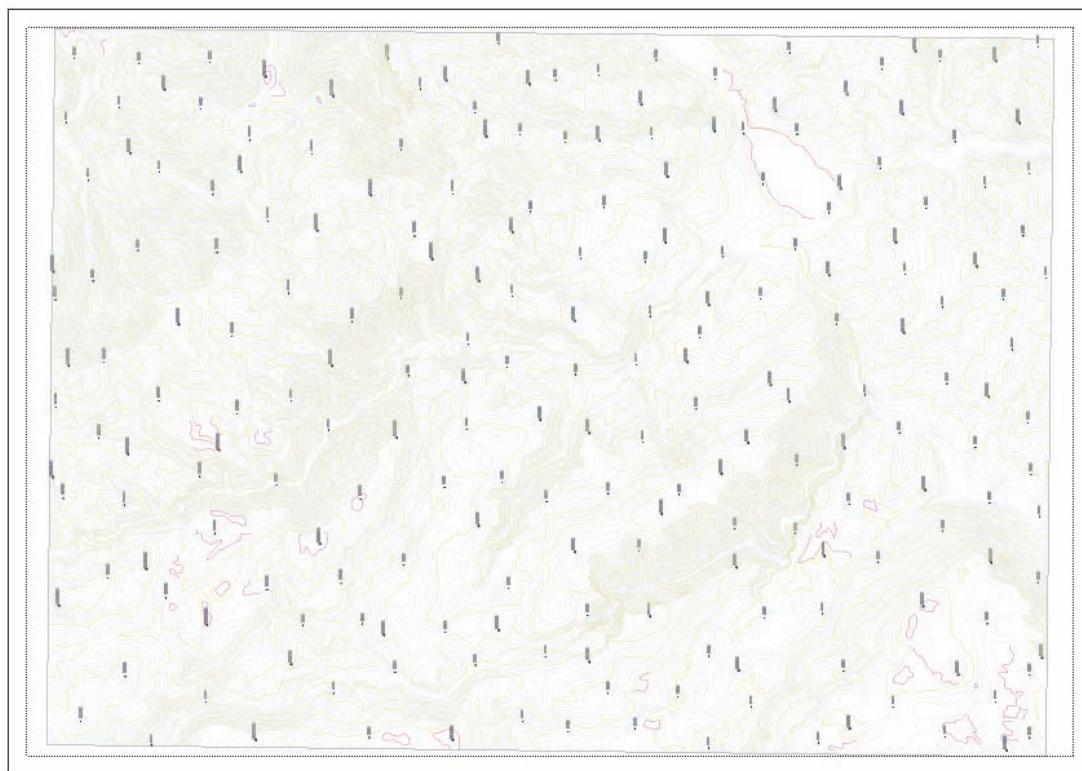


- 4 Then you can see this dialog. About now loading the DXF file.

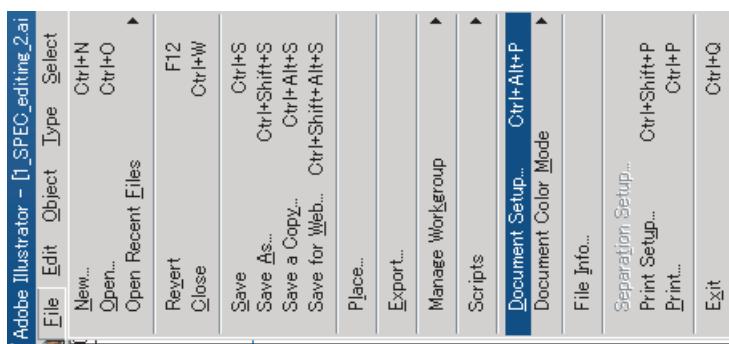


Guidelines 2 Document Setup

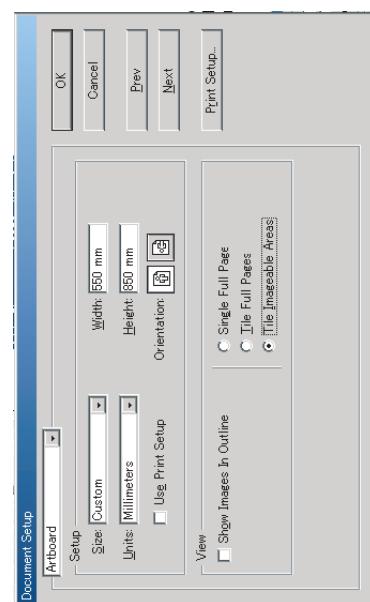
-1 After the DXF file loading is finished, you can see this map object which is built in default sizes of Illustrator.



- 2 Select File then you let see pull down menu then select the Document Setup.

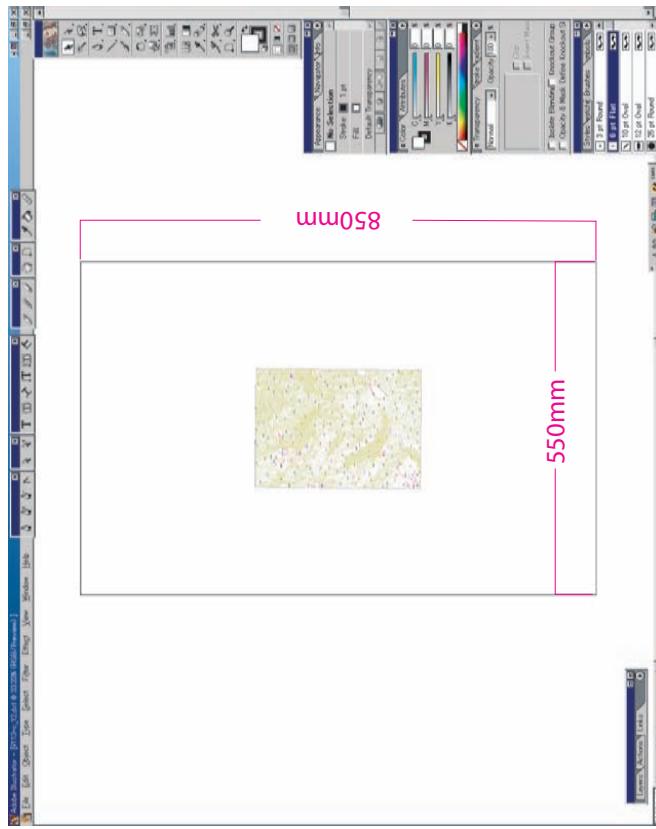


- 3 Open the Document Setup dialog, you can change the art board size which size is width 550mm, height 850mm.

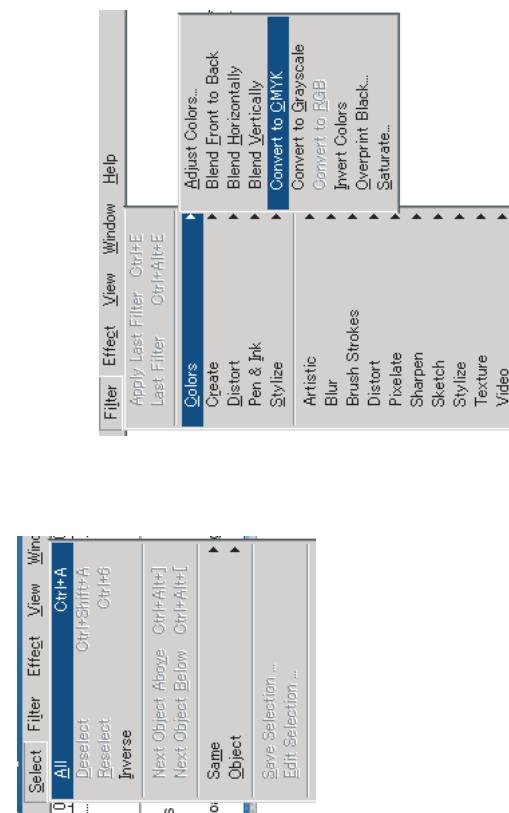


Guidelines 2-1 Document Setup

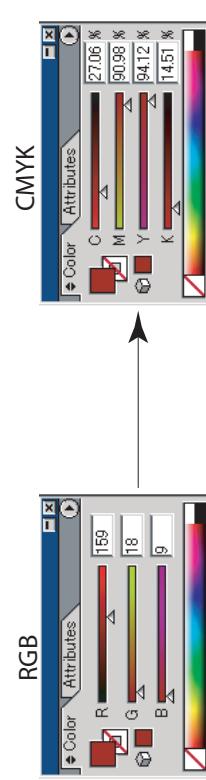
-1 After artboard size is changed you can see the following



-2 Open Edit and then in the pulled down window go in Select All or simultaneously press Ctrl+A. Then open Filter, look into Colors and in the pulled down submenu look into Convert to CMYK



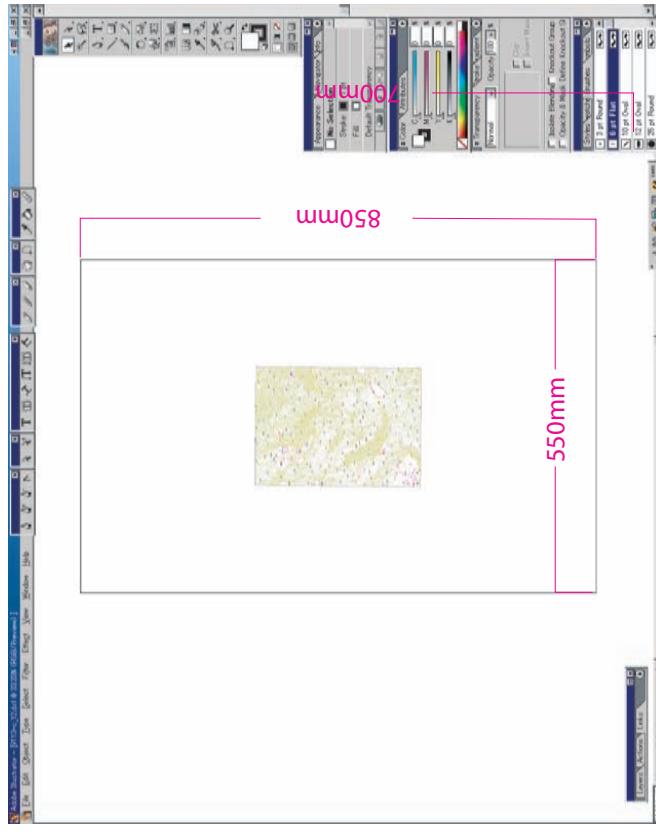
-3 It is possible to switch from RGB to CMYK through color dialogue window



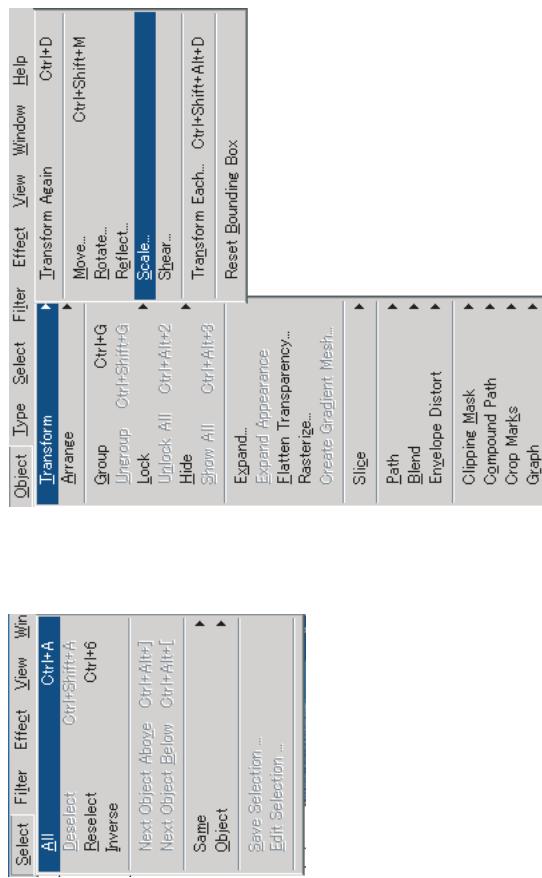
In publishing purposes CMYK color separation is basically used. In case of RGB and CMYK mixing it becomes impossible to correctly produce reproduction films from files due to incorrect color separation.

Guidelines 4 Scale conversion

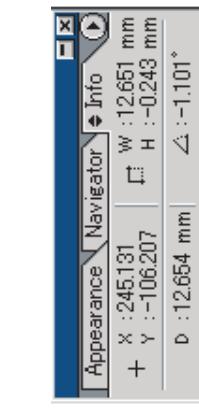
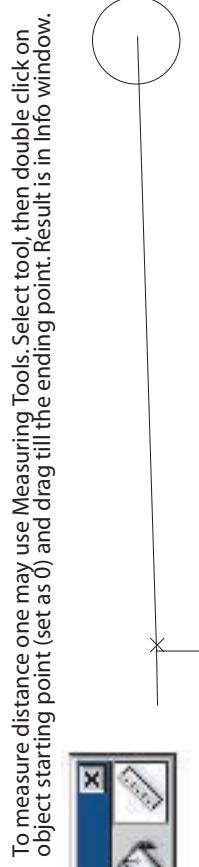
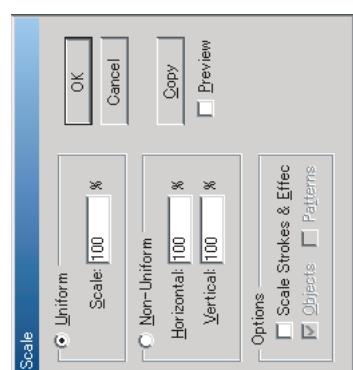
-1 After the size of artboard is changed the following appears



-2 Select Select from menu and All in the pulled down window or the same by simultaneous pressing Ctrl+A. Select Object from menu, then Transform and Scale from submenu.

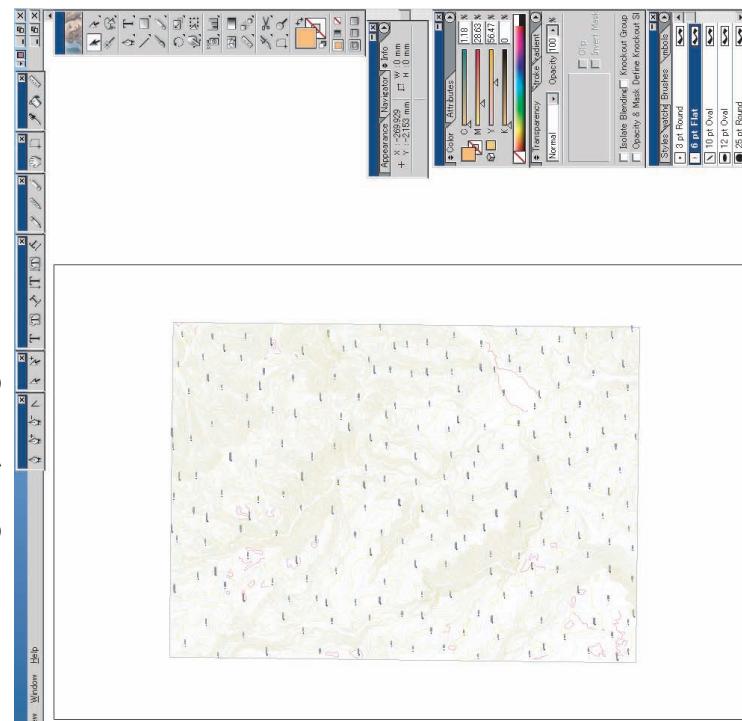


-3 A dialogue window Scale appears and you should define scale in % as result of calculations by the values of neatline distance of this object and neatline ground distance. The value of neatline ground distance can be obtained by using AutoCAD. For example, ground distance 20,000m/map scale (1:25,000)=80cm.80cm/object neatline distance = scale, %.



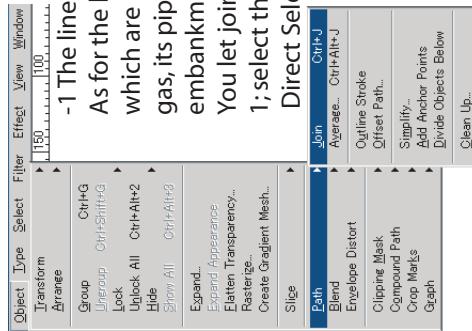
Guidelines 4-1 Scale conversion

- 1 After scale conversion you can see scaled object.
- then check the neat line length by using the Measure Tool .

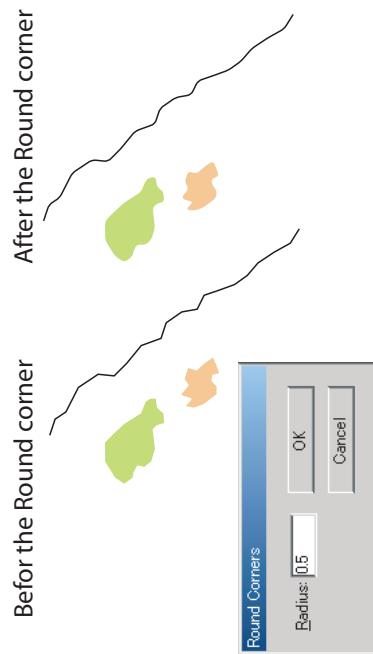


Guidelines 5 Objects retouching

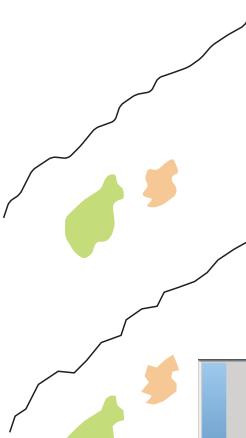
- 1 After scale conversion you can see scaled object.
- then check the neat line length by using the Measure Tool .
- 1 The liner objects should be retouched before editing.
- As for the liner objects should be continued line which are roads, railways, single rivers , canals, utility of water, oil , gas, its pipe lines, and power, communication, its lines, embankment,.....etc.
- You let join the unconnected objects,
- 1;select the tow objects points of targets path by using Direct Selection tool.
-
- Object in menu bar you let select Path from pull down menu or press the Key of Ctrl+ J . Then the objects are joined.



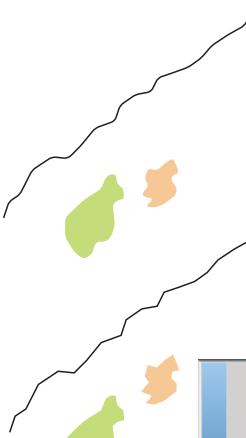
- 2 Also the Polygon objects should be retouched before editing.
- As for the double line river,lake,pond ,vegetation,.....etc



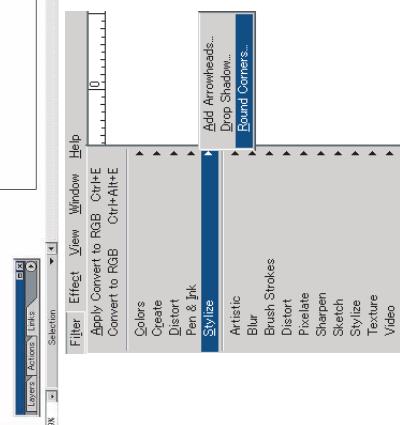
Before the Round corner



After the Round corner



- 3 Some Liner objects and Polygon objects should be changed round the its corner, due to the shapes look like something.
- Select the target object,
- select Filter in menu bar,you let select Stylize from pull down menu.Then you can see Round Corners dialog box, you let enter the Radius, and then click OK.



Guidelines 7-1 About the Layer order.

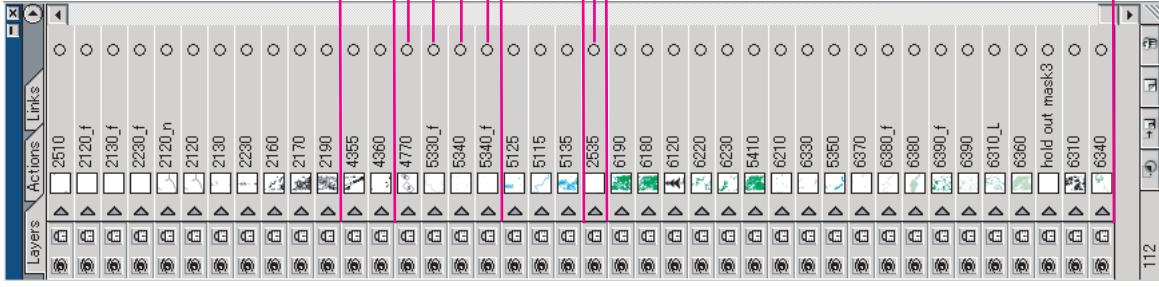
Before starting you should replace the layer order. The layer order sample is as shown in the chart below.

The layer order sample is as shown in the chart below and refer to Sample map files.

Guidelines 8 Symbolizing

You can use some kind of point symbol from the file of `Symbols_palette` which file was prepared for 1:25 000 maps.

Explanation for how to be symbolizing for point feature.



Guidelines 7-1 About the Layer order.

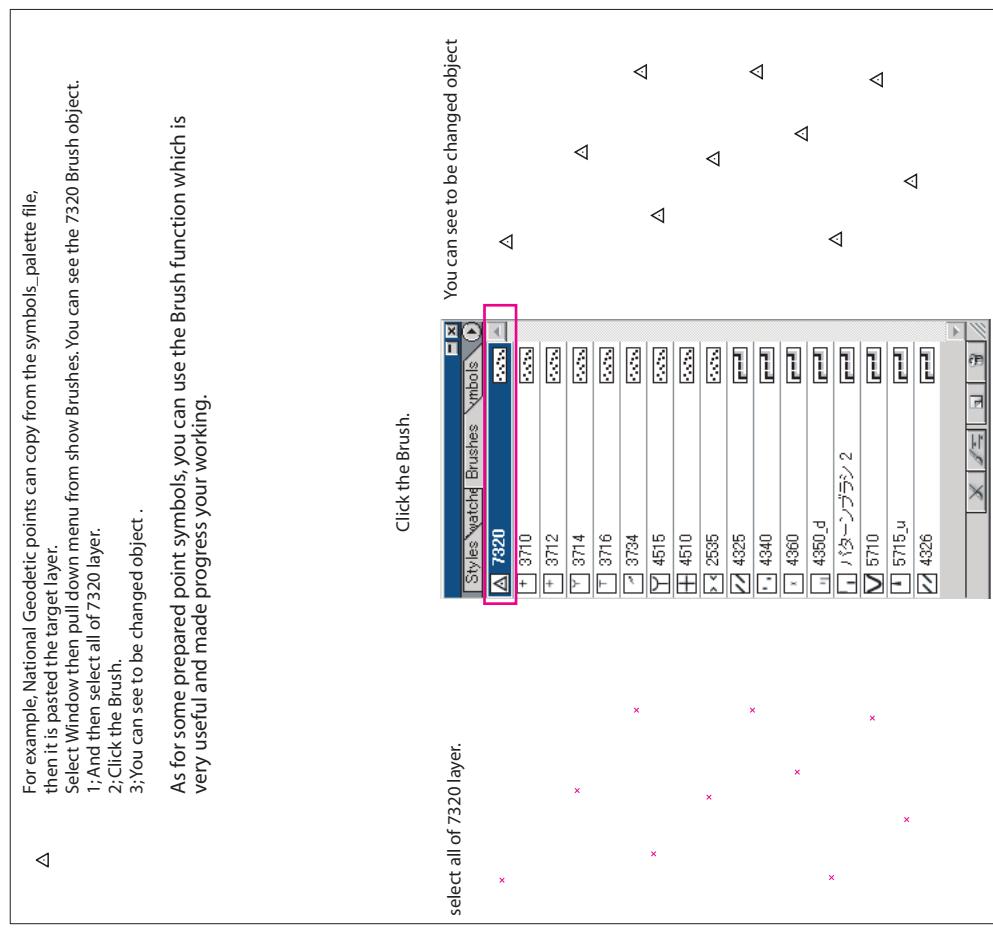
The flavor order sample is as shown in the chart below and refer to Sample man file Before starting you should replace the layer order.

The layer order sample is as shown in the chart below and refer to Sample map files.

Guidelines 8 Symbolizing

You can use some kind of point symbol from the file of `Symbols_palette` which file was prepared for 1:25 000 maps.

Explanation for how to be symbolizing for point feature.



Guidelines 8 - 1 Symbolizing

List of point symbols to be prepared by using the Brush function. These symbols can copied from this list or the file of [Symbol_Palette.ai](#)

Layer name and Symbol name	Symbol	Layer name and Symbol name	Symbol	Layer name and Symbol name	Symbol	Layer name and Symbol name	Symbol
7310 nivelnarska tačka Bench mark	□	3532 ciglana Brick factory	■	4126 spomenik Monument	Δ	4575 napušteni rudnik Disused mine	✗
7320 trigonometrijska tačka Triangulation point	△	3534 specifična fabrička postrojenja Specific factory	▲	4128 kula (osmatračnica) Watchtower	□	2725 aerodrom Airport	†
7330 crkva (kapela) kao trigonometrijska tačka Trigonulation point on a church	○	3536 mala strugara (pišljana, žaga) Small sawmill	¬	4130 religiozni znak ili kast Religious Monument and cross	±	5510 jak izvor Large spring	✳
7335 džamija kao trigonometrijska tačka Triangulation point on a mosque	○	3538 hidroelektrana Hydroelectric power plant	★	4132 kamenka ili gromila kamena Stone marker; monument	∴	5515 slab izvor Small spring (spring water pond)	●
7340 sinagoga kao trigonometrijska tačka Triangulation point on a synagogue	○	3540 termoelektrana Thermolectric power plant	¬	4134 vodenica Water mill	◊	5520 česma Water drinking place	✳
razni objekti kao trigonometrijska tačka: meteoročarska observatorija - stanica, meteoreologički observatory	Δ	3542 silos Silo	■	4136 vazduhoplovni/zrakoplovni svjetionik Aeronautical lighthouse	* ●	5525 bunar Water well	○
razni objekti kao trigonometrijska tačka: antenski stub	Δ	3544 meteorološka opsevatorija ili stanica Meteorological observatory	□	4138 pećina: sa vodom Cave-with water (current)	⌚	5530 cisterna (ima stalno vode za piće) Drinking water tank	■
razni objekti kao trigonometrijska tačka: triangelion point on a border post	△	3546 zamak Castle, ruin of castle	◻	4140 pećina: bez vode Cave-without water (current)	⌚	5535 rezervoar vode u vidu kule Water tower	●
razni objekti kao trigonometrijska tačka: dimnjak (ta chimney)	Δ	3548 kultun, koliba, pojata, bacilo Hut	◊	4142 jama ili bezdan Rent (rock)	◆	5540 crpka (pumpa) Water pump	◊
3510 crkva Christian church	○	4110 bušoljuba za eksploataciju naftne petroleja; za toranj Oil and gas well with tower	□	4510 usamijeni grob Individual grave (Christian)	+	5545 bazen: plivalište Reservoir (swiming pool)	■
3512 kapela Christian chapel	●	4112 bušoljuba za eksploataciju naftne petroleja; bez toranja Oil and gas well without tower	◊	4515 usamijeni grob Individual grave (Islamic)	Υ	5550 bazen: bazen za industrijsku vodu Reservoir (industrial reservoir)	☒
3514 manastir Christian monastery	□	4114* rezervoar naftne Tank	○	4520 usamijeni grob Individual grave (Judaic)	Τ	5580 plovnost rijeke za brodove Ships can sail.	❖
3516 džamija Islamic temple (mosque)	○	4116 plinara Gaswork	□	4522 usamijeni grob Individual grave (Bogomil)	○	5585 plovnost rijeke za male brodove Small ships can sail.	◊
3520 sinagoga Judaic temple	○	4118 antenski stub: usamijeni Electric wave tower (Independent)	○	45** usamijeni grob Individual grave (Partisan soldiers)	◊	5590 plovnost rijeke za siplavove Rafts can sail.	■
3522 usamijena zgrada Individual building	-	4120 antenski stub: na zgradu Electric wave tower (on building)	■	4545 stadion ili sportsko igralište Stadium or ground	□	5595 kilometarska oznaka Kilo post	□
3528 dimnjak Chimney	■	4122 transformator Transformer	¬	4565* majađan Quarrying place	„	6110 bijelogorica Broadleaf wood	◊ ◊
		4124 transformator na podzemnom delovkovcu Underground transformer	¬	4570* rudnik Mine	❖	6120 topola Poplar	○

Guidelines 8 - 2 Symbolizing

List of point symbols to be prepared by using the Brush function. These symbols can copied from this list or the file of New_Symbols.sai

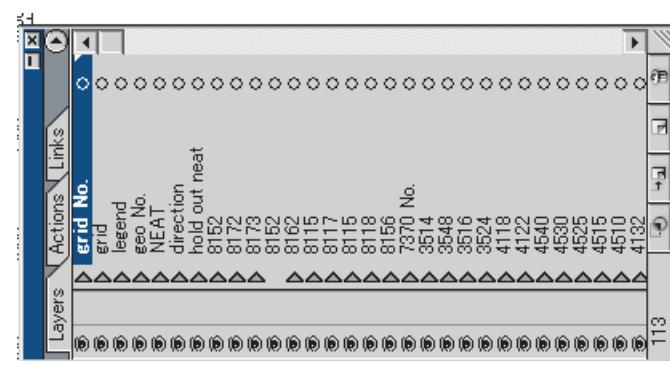
Layer name and Symbol name	Symbol
6140 <i>cnogorica</i> <i>Conifer</i>	▲
6150 <i>ševar</i> <i>Reed</i>	■
6180 <i>drveće</i> <i>Tree</i>	○
6190 <i>žbunje</i> <i>Shrub</i>	△
6310 <i>livada</i> <i>Pasture</i>	▼
7410 <i>vrtaća koja se ne može predstaviti izohipsama</i> <i>Depression</i>	◎
7420 <i>usamršljena stijena koja se ne može predstaviti u razmjeru</i> <i>Tower shaped rock</i>	▲
7430 <i>kamenito tlo</i> <i>Bare rock</i>	●
5640 <i>sadršte</i> <i>Port</i>	↓
5645 <i>zabranjeno sidrenje</i> <i>Prohibition region for anchoring</i>	↑
5650 <i>svjetleća plutaca</i> <i>Buoy lighthouse</i>	*▲
5655 <i>plutaca za vez</i> <i>Buoy for mooring</i>	□▲
5660 <i>sjetlo svjetionik</i> <i>Lighthouse</i>	■
5665 <i>hydrant</i> <i>Fire-plug</i>	⊕
5670 <i>kabloska kućica</i> <i>Cable house</i>	□

Note: These Brush object symbols should be given finally the Expand function!
 If you have not done the Expand these brush object symbols which are not able to editing;
 Scale, Rotate, Change its color, attribute,...,but you can only move them. It is inconvenience for progression of work.

How to Expand the Brush object.

1;Select the all symbols of target layer .

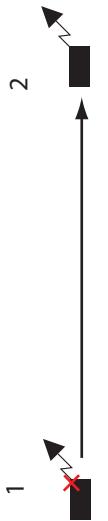
This time, other layers should be turned off.Click on the target layer+Alt key then other layer will be turned off.



2; Select Object from menu bar then select the Expand Appearance.



3; You can see the symbols which are changed point object to line and fill objects which are original composition before enter the Brush library. When you select the object, you can see as below.

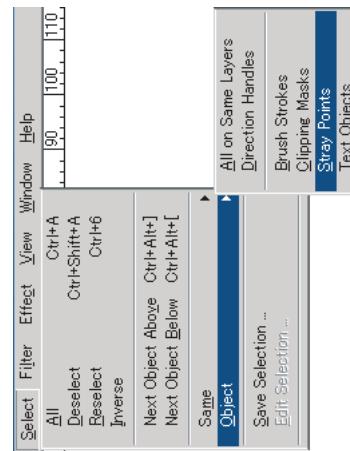


1; Before operate the Expand,
 the symbol is recognized point object.
 2; After operate the Expand,
 the symbol is recognized line and fill objects.

Note: After the Expand, the symbols have a point which is identified original point before enter the Brush library and come from the DXF data. Finally, these points data should be removed when after the placing on symbols or finished editing.

How to select the useless point.kleton of object.

- 2; Select object by Direct Selection tool, you can see current selection object.
- 3; Select Object from menu bar, then Hide selection or Ctrl Key+3, you can see as disappeared the object.
- 4; Repeat 2 and 3, until the object is hide entirely. Select Object from menu bar, then Show All or Ctrl+Shift+3, then the object will be shown, you let use Lock function instead of 2 and 3 operation.
- 5; Then you can see a point.
- 6; Select the point, then see the Color dialog box. Then you can define the point color.
- 7; Select Edit from menu bar, then chose Select from pull down menu, then chose Same Paint Style which is meaning same fill and same stroke.
- 8; You can see that all points are selected.
- 9; And then delete.



Other method.

1; Select Select from menu bar, then chose Select from pull down menu,

then chose Stray points.

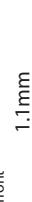
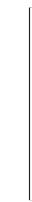
2; Then the points are selected automatically.

3; And then delete.

note: This method is easy though It will be select usage point.

How to make line object.

Roads; as for the double line roads should be required two or three layers which are Black line parts, White line parts, and Separation lines parts on the High way.

- No. 60  1;  Copy and Paste in front 1.1mm
3;  Copy and Paste in front 0.11mm
4;  Copy and Paste in front 0.11mm
1.5mm  1.1mm
- No. 61  1;  Copy and Paste in front 1.6mm
3;  Copy and Paste in front 1.6mm
4;  Copy and Paste in front 0.5mm
0.8mm  0.5mm 1.6mm
- No. 62  1;  Copy and Paste in front 0.8mm
3;  Copy and Paste in front 0.5mm
0.8mm  0.5mm

- 1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke of K100 in the color dialog box and enter the Stroke Weight 1.5mm which line Cap is Butt Cap:Join is Miter Join. And Then change the Attributes Over print stroke.
2;Copy the current object select Edit from menu bar select Copy or Ctrl+C, and Paste in Front or Ctrl+F. Then you can move current selected object layer,2110, to 2110_f layer.
3; You can change color which is Non Fill, Turn Stroke,White which is entries in the Swatch dialog box, and enter the Stroke Weight 1.1mm which line Cap and Join are remembered same the black line. Copy and Paste in Front the current object then move the layer to 2110_c layer
4; You can change color which is Non Fill, Turn Stroke,Black which is entries in the swatch dialog box ,and enter the Stroke Weight 0.1mm.
And Then change the Attributes Over print stroke.
Note: this symbols layer order is, 1st is 2110_f, 2nd is 2110_c, 3rd is 2110.
- 1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke of K100 in the color dialog box and enter the Stroke Weight 0.8mm which line Cap is Butt Cap:Join is Miter Join. And Then change the Attributes Over print stroke.
2;Copy the current object select Edit from menu bar select Copy or Ctrl+C, and Paste in Front or Ctrl+F. Then you can move current selected object layer,2120, to 2120_n layer.
3; Then enter the Stroke Weight 1.6mm. And Then you put check mark on the Dashed Line which is dash 0.3mm gap 14mm.
Copy and Paste in Front the current object then move the layer to 2120_f layer.
4; You can change color which is Non Fill, Turn Stroke,White which is entries in the Swatch dialog box .and enter the Stroke Weight 0.5mm.
The color white is not need to operate Over print.
Note: this symbols layer order is, 1st is 2120_f, 2nd is 2120_n, 3rd is 2120.
The color white can not see on preview screen. Changing the Art Work view,you can define the object.
- 1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke,K100 in the color dialog box, and enter the Stroke Weight 0.8mm which line Cap is Butt Cap:Join is Miter Join. Then change the Attributes Over print stroke.
2;Copy and Paste in Front the current object. Then you can move current selected object layer of 2130 to 2130_f layer.
The color white is not need to operate Over print.
3; You can change color which is Non Fill, Turn Stroke,White in the color dialog box enter the Stroke Weight 0.5mm which line Cap and Join are to be same the black line.
Note: this symbols layer order is, 1st is 2130_f, 2nd is 2130.
The color white can not see on preview screen. Changing the Art Work view ,you can define the object.

1.6mm 0.6mm

0.8mm

Copy and Paste

0.5mm
in front

0.1 nm

- 1 -

• 10 •

0.8mm

Copy and Paste
in front

0.4mm

Copy and Paste
in front

0.3mm

How to make line object.

Railway; as for the railway should be required three layers which are Black line parts, Dash line parts, White line parts(disused) and Symbol parts(electrified).

- No.72    1;    1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke K100 in the color dialog box and enter the Stroke Weight 0.5mm which line Cap is Butt Cap:Join is Miter Join. And Then change the Attributes Over print stroke.
2; Copy the current object,select Edit from menu bar select Copy or Ctrl+C, and Paste in Front or Ctrl+F. Then you can move current selected object layer,2310, to 2310_d layer.
3;    1.1mm " " Then enter the Stroke Weight 1.1mm. And Then you put check mark on the Dashed Line which is dash 0.3mm, gap 0.6mm, dash 0.3mm, gap 18.8mm.
Note: this symbols layer order is, 1st.is 2310_d,2nd is 2310.

- No.73    1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke K100 in the color dialog box, and enter the Stroke Weight 0.5mm which line Cap is Butt Cap:Join is Miter Join. Then change the Attributes Over print stroke.
2; Copy and Paste in Front the current object.Then you can move current selected object layer of 2320 to 2320_d layer.
3;    1.1mm " " Then enter the Stroke Weight 1.1mm. And Then you put check mark on the Dashed Line which is dash 0.3mm gap 20mm.
Note: this symbols layer order is, 1st is 2320_d,2nd is 2320.

- No.74    1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke K100 in the color dialog box and enter the Stroke Weight 0.5mm which line Cap is Butt Cap:Join is Miter Join, and then you put check mark on the Dashed Line which is dash 19mm gap 0.5mm.
2; Copy and Paste in Front the current object.Then you can move current selected object layer of 2350 to 2350_d layer.
3;    1.1mm " " Then enter the Stroke Weight 1.1mm, and then you put check mark on the Dashed Line which is dash 0.3mm gap 19mm.
4;    1.1mm " " 4;This symbol has two dashed lines.
5; You can only dashed line(2350_d layer) of starting point by using the Direct Selection Tool. Then Stretch the dashed line(2350_d layer) until the dash coming center of dashed.
Note: this symbols layer order is, 1st is 2350_d,2nd is 2350.

-:You can make the other railway which No. are 76,77,by using as these method.

- No.78 1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke,K100 in the color dialog box and enter the Stroke Weight 0.6mm which line Cap is Butt Cap:Join is Miter Join. And Then change the Attributes Over print stroke.
- 1; Copy and Paste in front 0.4mm
- 2; Copy the current object,select Edit from menu bar select Copy or Ctrl+C, and Paste in Front or Ctrl+F. Then you can move current selected object layer,2370_f to 2370_f layer.
- The color white is not need operate Over print.
- 3; You can change color which is Non Fill, Turn Stroke,White which is entries in the Swatch dialog box and enter the Stroke Weight 0.4mm which line Cap and Join are remembered same the black line. Copy and Paste in Front the current object then move layer 2370_f to 2370_d
- Note: this symbols layer order is, 1st, is 2370_d, 2nd is 2370_f, 3rd 2370.
- 4; You can change color which is Non Fill, Turn Stroke,K100 in the color dialog box, and enter the Stroke Weight 0.4mm, and then you put check mark on the Dashed Line which is dash 0.1mm gap 1mm.
Then change the Attributes Over print stroke.

Railway: as for special case of combination of dashed and continued line.

- No.79 1; Make the black thin line, select the target line then change color which is Non Fill, Turn Stroke,K100 in the color dialog box and enter the Stroke Weight 0.1mm which line Cap is Butt Cap:Join is Miter Join. Then change the Attributes Over print stroke.
- 1; Copy and Paste in front 0.1mm
- 2; Copy and Paste in front the object. Then you can move current selected object layer of 2380 to 2380_f layer.
- The color white is not need to operate Over print.
- 3; You can change color which is Non Fill, Turn Stroke,White in the color dialog box enter the Stroke Weight 0.3mm which line Cap is Round Cap:Join is Miter Join.
And then you put check mark on the Dashed Line which is dash 0mm gap 10mm.
Copy and Paste in Front the current object then move the layer to 2380_c layer.
- 4; You can change color which is Non Fill, Turn Stroke,K100 in the color dialog box and enter the Stroke Weight 0.5mm which line Cap is Round Cap:Join is Miter Join.
And then you put check mark on the Dashed Line which is dash 0mm gap 10mm.
Then change the Attributes Over print stroke.
- Note: this symbols layer order is, 1st, is 2380_c, 2nd is 2380_f, 3rd is 2380.
- The color white can not see on preview Screen. Changing the ArtWorkview , you can define the object.

No. 80 1; Make the black line, select the target line then change color which is Non Fill, Turn Stroke, K100 in the color dialog box and enter the Stroke Weight 0.3mm which line Cap is Butt Cap:Join is Miter Join. Then change the Attributes Over print stroke.

2; Select target object:Select Object from menu bar,then chose Path, Then chose Offset path in sub pull down menu.
You can enter 0.3mm in the Offset dialog box then Click OK

3; You can see the object which was made path like a enclosing the original object. After offset, you should cut the path its starting point and end point of useless upper side by using Scissors Tool from Tool bar.Then delete the cutted object.

4; You can see double lines which are original and offsetted line.



5; Select offsetted line, then change the Stroke weight is 0.3mm, dash is 0.2, gap is 1.5mm.

4;

5;

Canals, as for the double line canals two layers should be required as follows: Blue solid line parts layer and 30%- blue color line parts layer.

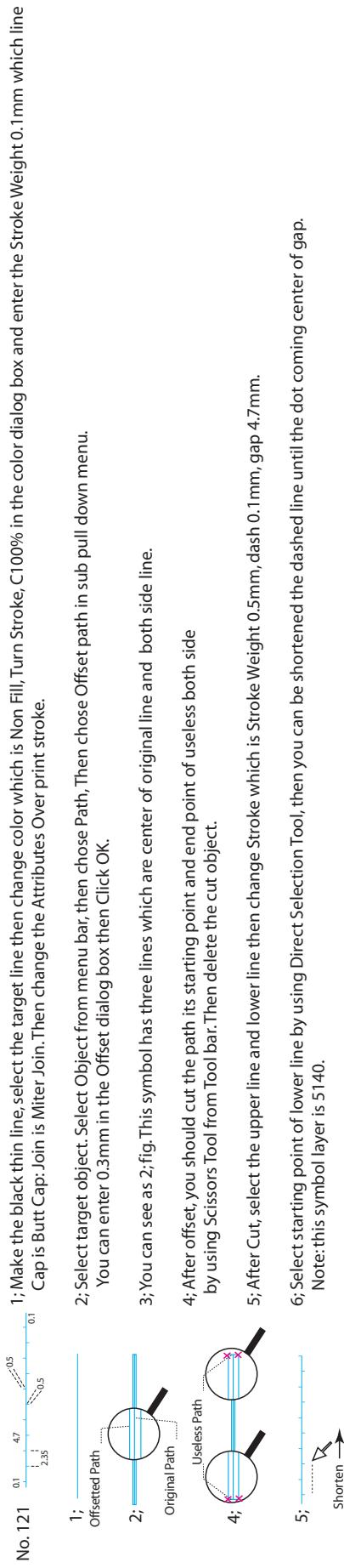
- | | | | |
|---------|--|-------------------------|--|
| No. 116 | | 0.6mm | 1; Make the blue line, select the target line then change color which is Non Fill, Turn Stroke, C100 in the color dialog box and enter the Stroke Weight 0.6mm which line Cap is Butt Cap: Join is Miter Join. Then change the Attributes Over print stroke. |
| | | Copy and Paste in front | 2; Copy and Paste in Front the current object. Then you can move current selected object layer of 5120 to 5120_f layer. And then you put check mark off the Over print stroke. |
| 3; | | 0.4mm | 3; You can change color which is Non Fill, Turn Stroke, C30% in the color dialog box, and enter the Stroke Weight 0.4mm.
Note: this symbols layer order is, 1st. is 5120_f, 2nd is 5120. |

-: Symbols of No. 116 is omitted for wanted space. Because No. 116 is shown by just single line which are continued.

- | | | | |
|---------|--|-------------------------|--|
| No. 118 | | 0.6mm | 1; Make the blue line, select the target line then change color which is Non Fill, Turn Stroke, C100 in the color dialog box and enter the Stroke Weight 0.6mm which line Cap is Butt Cap: Join is Miter Join, and then you put check mark on the Dashed Line which is dash 1.4mm gap 0.6mm. Then change the Attributes Over print stroke. |
| | | Copy and Paste in front | 2; Copy and Paste in Front the current object. Then you can move current selected object layer of 5330 to 5330_f layer. And then you put check mark off the Over print stroke. Then you put check mark off the Dashed Line. |
| 3; | | 0.4mm | 3; You can change color which is Non Fill, Turn Stroke, C30% in the color dialog box, and end Stroke Weight 0.4mm.
Note: this symbols layer order is, 1st. is 5330_f, 2nd is 5330. |

-: Symbols of No. 120, is omitted for wanted space. Because No. 120, is shown by just single line which is dashed.

Canal; as for special case of combination of dashed and continued line.



No. 122 1; Make the black thin line, select the target line then change color which is Non Fill, Turn Stroke, C100% in the color dialog box and enter the Stroke Weight 0.1mm which line Cap is Butt Cap: Join is Miter Join. Then change the Attributes Over print stroke.

- 1; 2; Select target object. Select Object from menu bar, then chose Path, Then chose Offset path in sub pull down menu. You can enter 0.3mm in the Offset dialog box then Click OK.
- 3; You can see as 2; fig. This symbol has three lines which are center of original line and both side line.
- 4; After offset you should cut the path its starting point and end point of useless both side by using Scissors Tool from Tool bar. Then delete the cut object.
- 5; After Cut, select the upper line and lower line then change Stroke which is Stroke Weight 0.5mm, dash 0.1mm, gap 4.7mm.
- 6; Select starting point of lower line by using Direct Selection Tool, then you can be shortened the dashed line until the dot coming center of gap. Note: this symbol layer is 5140.
- Shorten →

No. 122 1; Make the black thin line, select the target line then change color which is Non Fill, Turn Stroke, C100% in the color dialog box and enter the Stroke Weight 0.2mm which line Cap is Butt Cap: Join is Miter Join, and enter dash 4mm, gap 0.6mm, dash 1.8mm, gap 0.6mm. Then change the Attributes Over print stroke.

1; 2; Copy the current object select Edit from menu bar select Copy or Ctrl + C, and Paste in Front or Ctrl + F. Then you can move current selected object layer , 5145 to 5145_f layer.

Copy and Paste in front

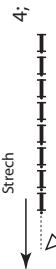
2; 3; Then enter the Stroke Weight 1mm which line Cap is Round Cap:Join is Miter Join. And then you put check mark on the Dashed Line which is dash 0mm gap 7mm. You can see as 2; fig. This symbol has tow lines which are dashed and dotted.

4; You can select only dotted line of starting point by using the Direct Selection Tool. Then shortened the dotted line until the dot coming center of dashed Copy and Paste in front the current object then move the layer to 5145_c layer.

5; 5; You can change color which is Non Fill, Turn Stroke, White which is entries in the Swatch dialog box and enter the Stroke Weight 0.6mm which line Cap is Round Cap: Join is Miter Join. And then you put check mark on the Dased Line which is dash 0mm gap 7mm. The color white is not need to operate Over print. Note: this symbols layer order is, 1st 5145_c, 2nd is 5145_f, 3rd is 5145.

-You can apply to this method the other tow type line objects which symbol No. are 122, 124. Symbol of No. 125 is omitted for wanted space. Because No. 125 shown by just single line which is dashed.

Boundaries; as for special case of combination of dashed and continued line.

- No. 181
- 1;  1; Make the black fat line, select the target line then change color which is Non Fill, Turn Stroke, K100 in the color dialog box and enter the Stroke Weight 0.5mm which line Cap is Butt Cap: Join is Miter Join, then enter dash 2.4mm, gap 0.6mm, Then change the Attributes Over print stroke.
 - 2;  2; Copy and Paste in front the object, then enter the Stroke Weight 1.2mm which line Cap is Butt Cap:Join is Miter Join, then enter dash 0.2mm, gap 2mm, dash 0.2mm, gap 0.6mm.
 - 3;  3; Copy and Paste in front the object, then enter the Stroke Weight 0.4mm which line Cap is Round Cap: Join is Miter Join, then enter dash 0mm, gap 3mm.
 -  4; You can see as 3; fig. This symbol has two lines which are dashed and dotted.
 -  5; You can select only dotted line of starting point by using the Direct Selection Tool. Then Stretch the dotted line until the dot coming center of gap.

Polygons: Polygon object are used two kind of type which are simple polygon and complex polygon.
 These polygon objects are used to represent the symbols surface which are as for water systems, rivers, lakes, ponds,.....
 as for vegetations, forests, plantations, bushes,..... as for topographies, sands, swamps,....

As for simple polygon

1:-The simple polygon; Before make polygon, you should be joined the all segment of target object.

2:-After joining, Select the object then you can fill the object. And then you can see the polygon object was entirely filled .

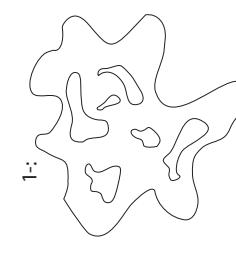
As for complex polygon

1:-The simple polygon; Before make polygon, you should be joined the all segment of target object which are outer object and inner object.

2:-After joining, select the all target object then Select Object from menu bar, you can chose Compound Paths on the pull down menu.

3:-And then click Make.

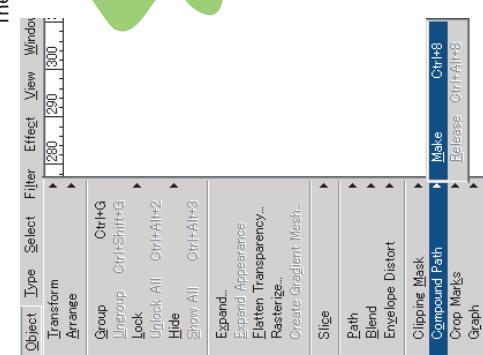
4:-Select the object then you can fill the object. And then you can see the polygon object which were filled outer polygon and non filled inner polygon.



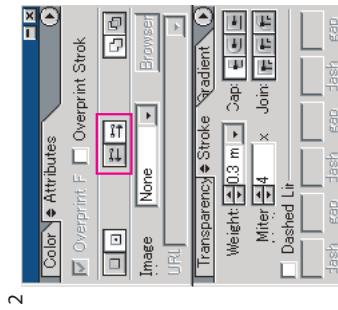
1:-

3:-

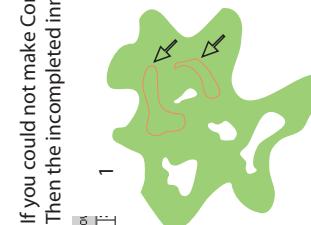
If you could not make Compound Paths, you can change Path Direction of target inner polygon.
 Then the incompletely inner polygon will be made.



1:-Select the incompletely polygon by using Direct Selection Tool.
 2:-You can change Path Direction from the Attributes dialog box.
 3:-And then you can complete the polygons.

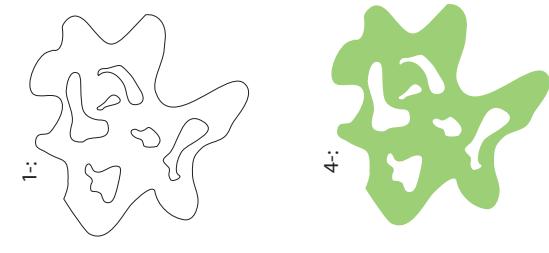


In case of these, it can not make the compound path.
 Cases:incompleted polygon, wrong path direction,
 other layer object, grouped objects,
 overlapped objects.



2:-

4:-



Editing

After symbolizing, you can start editing the map. It should be respected on the symbols legend and each symbol application and existing map and description.

1; Same color symbols should not overlap each other. In cases of overlapping symbols should be kept at the distance of about 0.2 from each other.

2; Generally point symbol should be placed on true position though they have been overlapped other symbols which should be moved to appropriately position which is not disturbed relative position each other.

3; Existing features and the secular change features tying should be done logical and respected on the symbol character.

4; Especially existing map is useful reference for editing from which it will be easy to know how to represent the symbols.

5; Annotations should not be overlapped each other and same color map features should not be overlapped the same color annotation. For example, in case of Black annotation on Black features and Blue annotation on Blue features should be moved annotation appropriately position or held out the features by masking (1-activate mask layer, 2-select the site of overlapping by using Rectangle Tool or drawing shape or using Ellipse tool, 3-in Color activate fill with the color of the background or choose appropriate type from Swatches, 4-in Attributes put off tick from both Overprint Fill and Overprint Stroke boxes).

You can see from the existing map for which overlapping features masking had been applied.

:-In case if you could not apply the Hold out mask, the overlapped parts of the map features should be cut .

6; In case of some overlapping between contour objects (such as steeps, slopes, cliffs) and roadside (road and railway) objects (cuttings and embankments) overlapping parts of these contour objects should be white masked (using Hold out mask layer).

7; After editing, you should check and retouch at least 2 times by using material of hard copy printing.

Before making reproduction film you should check the following:

1; Does the map have the Crop marks which are available in 4 colors K100,C100,bosnia_green,bosnia_brown?

2; Have Overprint Fill and Overprint Stroke operations been finished in respect to the map?

3; Have the useless fonts been removed from the map?

4; Has font outline operation been finished over the map?

5; Has the map been separated in 4 colors?

6; Does the map have RGB objects? If the map file has RGB objects they should be replaced with appropriate color system.

7; Does the map have embedded image? If the map file has embedded image which should be changed link image.

8; Does the map have gradient objects? If the map file has gradient objects this gradient mode should appropriately be deactivated .