

## BUILT-IN AREA, LINE AND POINT TYPES

This section reviews the area, line and point styles built into Global Mapper.

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  - [Area Fill Patterns](#)
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### Area Styles

Using the Area Styles panel users can configure how areas of a given type will be displayed in Global Mapper. Area fill, border style and color can be modified on a type-by-type basis. The Show Labels for Areas of This Type option allows users to turn area labels off on a type-by-type basis.

Area Types are shown in the Global Mapper Area Types table. Tables showing the Global Mapper Fill Patterns and Border Styles follow the Area Types table.

Global Mapper recognizes five field attributes as containing information for the display appearance of an Area Type. They are:

```
GM_TYPE=  
BORDER_COLOR=  
BORDER_WIDTH=  
BORDER_STYLE=  
FILL_COLOR=  
FILL_STYLE=
```

The "FILL\_ALPHA =" field attribute is recognized by Global Mapper to set an Area Type's transparency. Values for "FILL\_ALPHA =" range from 0 (Transparent) to 255 (Opaque). To determine the transparency value setting simply multiply the percentage by 255 and round off to the nearest integer (e.g. 75% transparency  $0.75 \times 255 = 191.25$ , use 191).

As an example, the default field attributes for the Anchorage Area Type are:

```
GM_TYPE=Anchorage Area  
BORDER_COLOR=RGB(255,0,255)  
BORDER_WIDTH=1  
BORDER_STYLE=Comb (Right Only)  
FILL_COLOR=RGB(255,0,255)  
FILL_STYLE=No Fill
```

To change the type's transparency to 35% the FILL\_ALPHA field attribute value should be set equal to 89 ( $0.35 \times 255 = 89.25$ ).

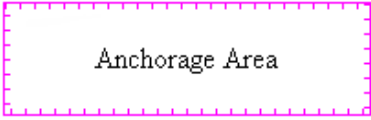



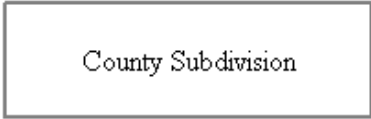
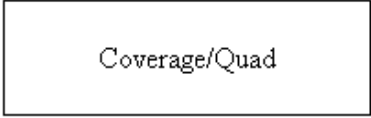

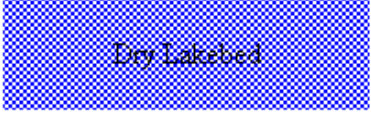

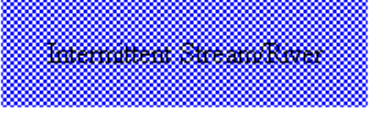
```
GM_TYPE=Anchorage Area  
BORDER_COLOR=RGB(255,0,255)  
BORDER_WIDTH=1  
BORDER_STYLE=Comb (Right Only)  
FILL_COLOR=RGB(255,0,255)  
FILL_STYLE=No Fill  
FILL_ALPHA=89
```




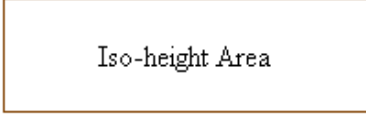
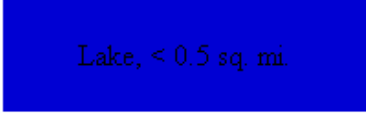
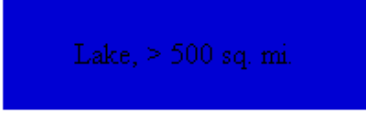
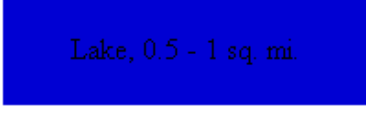
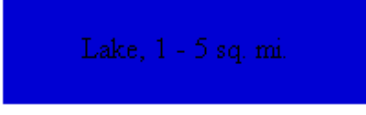
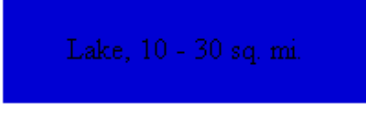
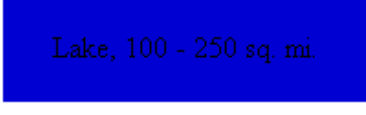
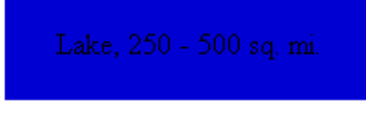
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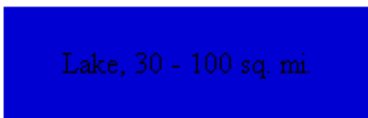
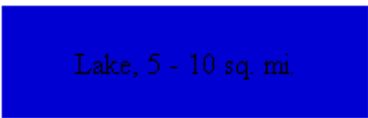

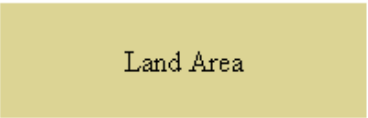

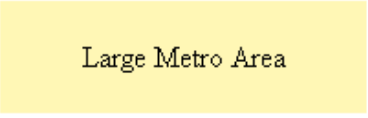




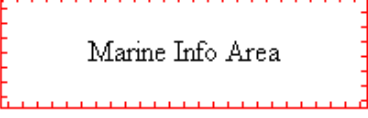
### Area Types




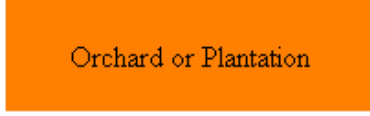



Global Mapper's View --> Background Color... color designation influences which areas can be seen. Any area whose color is the same as the Global Mapper Background Color will not be seen. Example, for a white Background Color (RGB 255,255,255), the Snow or Glacier Area will not be visible.







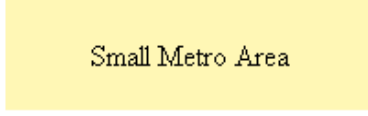
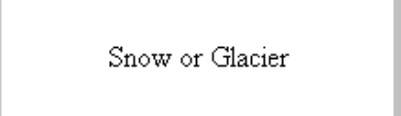


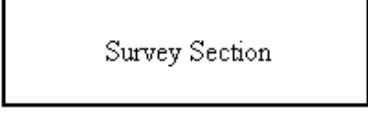
## Global Mapper Built-In Area Types

Area Type	Example	Fill Pattern	Fill Color	Border Width	Border Style	Border Color
Anchorage Area		No Fill	0,0,0	1	Comb (Right Only)	0,0,0
City Park		Solid Fill	0,235,0	1	Null	0,0,0
Country		No Fill	0,0,0	1	Solid	0,0,0
County		No Fill	0,0,0	2	Solid	0,0,0
County Subdivision		No Fill	0,0,0	2	Solid	128,128,128
Coverage/Quad		No Fill	0,0,0	1	Solid	0,0,0
Cropland		Solid Fill	183,183,0	1	Null	0,0,0
Dry Lakebed		Intermittent Water Pattern	132,130,255	1	Null	0,0,0
Intermittent Lake		Intermittent Water Pattern	132,130,255	1	Null	0,0,0
Intermittent Stream/River		Intermittent Water Pattern	132,130,255	1	Null	0,0,0

Intertidal Area		Solid Fill	192,240,188	1	Null	0,0,0
Island		No Fill	0,0,0	1	Solid	0,0,0
Isobath Area		Solid Fill	132,130,255	1	Null	0,0,0
Iso-height Area		No Fill	0,0,0	1	Solid	128,64,0
Lake, < 0.5 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, > 500 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 0.5 - 1 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 1 - 5 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 10 - 30 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 100 - 250 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 250 - 500 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0

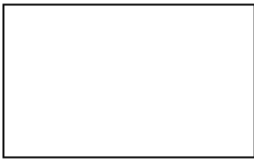

Lake, 30 - 100 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, 5 - 10 sq. mi.		Solid Fill	0,0,211	1	Null	0,0,0
Lake, Unknown Area		Solid Fill	0,0,211	1	Null	0,0,0
Land Area		Solid Fill	220,212,148	1	Null	0,0,0
Land Grant		No Fill	0,0,0	2	Null	0,0,0
Large Metro Area		Solid Fill	255,247,181	1	Null	0,0,0
Major National Park		Solid Fill	0,235,0	1	Null	0,0,0
Major River		Solid Fill	0,0,211	1	Null	0,0,0
Major State Park		Solid Fill	0,235,0	1	Null	0,0,0
Map Catalog Layer Bounds		Diagonal Cros-Hatch	255,64,64	1	Solid	0,0,255
Marine Info Area		No Fill	255,0,255	1	Comb (Right Only)	255,0,0

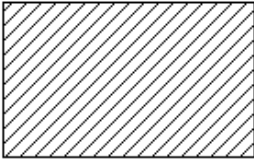
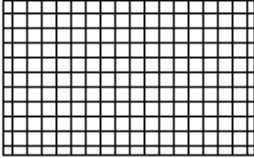
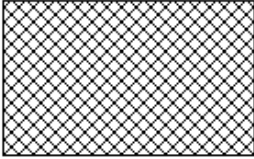
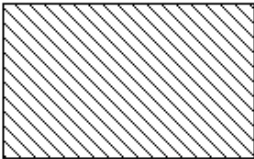
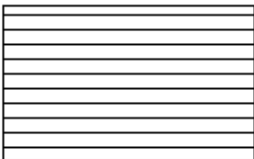
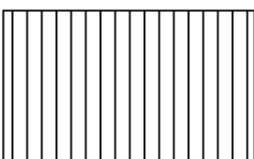
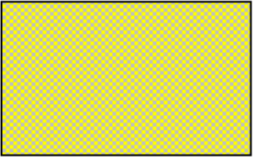

Marine Traffic Area		Backwards Diagonal Cross-Hatch	255,0,255	1	Solid	0,0,0
Measurement		Horizontal Hatch	255,0,0	5	Striped	255,255,0
Metro Area		Solid Fill	255,247,181	1	Null	0,0,0
Minor River		Solid Fill	0,0,211	1	Null	0,0,0
Misc. Manmade Structure		Solid Fill	255,64,64	1	Null	0,0,0
National Park		Solid Fill	0,235,0	1	Null	0,0,0
Ocean		Solid Fill	0,0,211	1	Null	0,0,0
Orchard or Plantation		Solid Fill	255,128,0	1	Null	0,0,0
Range Ring		No Fill	0,0,0	3	Solid	0,0,0
Reef		Coral Pattern	255,0,0	1	Null	0,0,0
Regional River		Solid Fill	0,0,211	1	Null	0,0,0

Reservation		Solid Fill	255,0,0	1	Null	0,0,0
Rock		Solid Fill	104,133,138	1	Null	0,0,0
Salt		Salt Pattern	192,102,192	1	Null	0,0,0
Sand		Sand Pattern	255,255,0	1	Null	0,0,0
Scattered Trees		Solid Fill	0,255,0	1	Null	0,0,0
Scrub Area		Diagonal Cross-Hatch	0,128,128	1	Null	0,0,0
Small Metro Area		Solid Fill	255,247,181	1	Null	0,0,0
Snow or Glacier		Solid Fill	255,255,255	1	Null	0,0,0
State		No Fill	0,0,0	3	Solid	0,0,0
State Park		Solid Fill	0,235,0	1	Null	0,0,0
Survey Section		No Fill	0,0,0	2	Solid	0,0,0


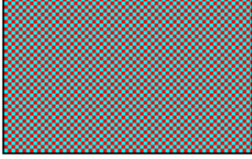
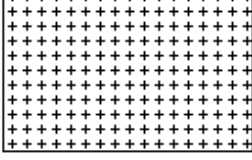
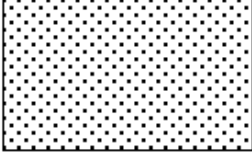
TIN Face Area		No Fill	0,0,0	1	Solid	0,0,0
Tundra		Solid Fill	145,177,196	1	Null	0,0,0
Unclassified Area Feature		No Fill	0,0,0	1	Solid	0,0,0
Unknown Area Type		No Fill	0,0,0	1	Solid	0,0,0
View Shed Coverage Area		No Fill	0,0,0	1	Solid	0,0,0
Wetland		Solid Fill	125,191,167	1	Null	0,0,0
Wooded Area		Backwards Diagonal Cross-Hatch	165,145,97	1	Null	0,0,0

**Area Fill Patterns**

<b>Global Mapper Fill Patterns</b>	
<b>Fill Pattern</b>	<b>Example</b>
No Fill	
Solid Fill	





Backwards Diagonal Cross-Hatch	 A square area filled with a pattern of thin, parallel lines sloping downwards from left to right, with a set of perpendicular lines forming a fine cross-hatch.
Cross-Hatch	 A square area filled with a regular grid of thin, intersecting horizontal and vertical lines.
Diagonal Cross-Hatch	 A square area filled with a pattern of thin, parallel lines sloping downwards from left to right, with a set of perpendicular lines sloping upwards from left to right, forming a fine cross-hatch.
Forward Diagonal Cross-Hatch	 A square area filled with a pattern of thin, parallel lines sloping upwards from left to right, with a set of perpendicular lines sloping downwards from left to right.
Horizontal Hatch	 A square area filled with a series of thin, parallel horizontal lines.
Vertical Hatch	 A square area filled with a series of thin, parallel vertical lines.
Sand_Pattern	 A square area filled with a solid, uniform yellow color.
Intermittent_Water_Pattern	 A square area filled with a pattern of small, blue, irregular shapes arranged in a regular grid, resembling a halftone or dithered pattern.







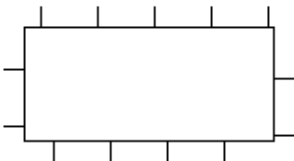
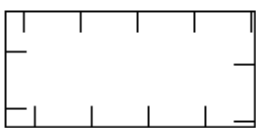
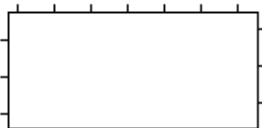





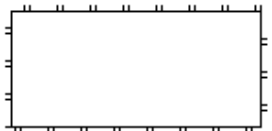
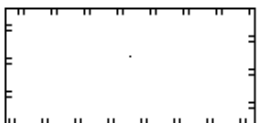

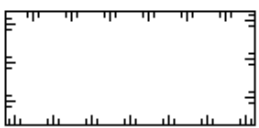


Salt_Pattern	
Coral_Pattern	
Black_Cross_Pattern	
Black_Dot_Pattern	



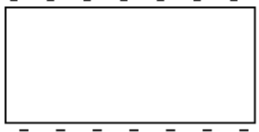
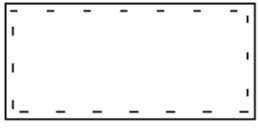
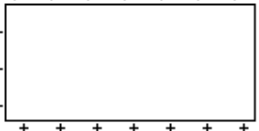
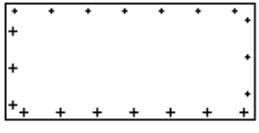
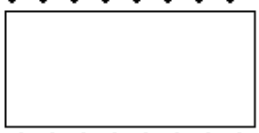
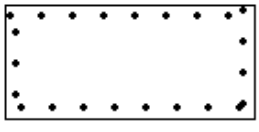

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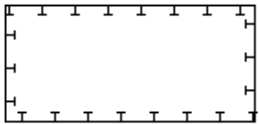
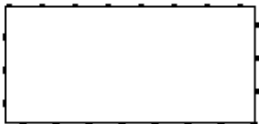
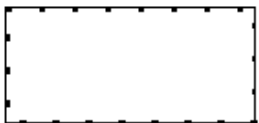
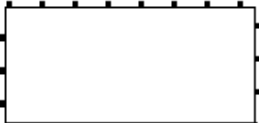



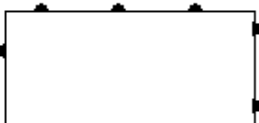
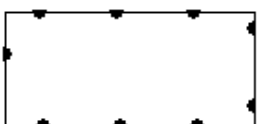
**Area Border Styles**

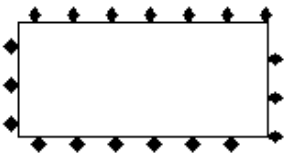
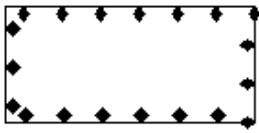
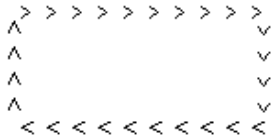

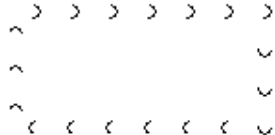
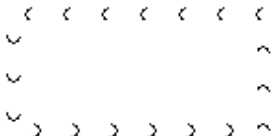


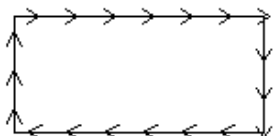
<b>Global Mapper Border Styles</b>	
<b>Border Style</b>	<b>Example</b>
Solid	
Dash	
Dot	
Dash - Dot	

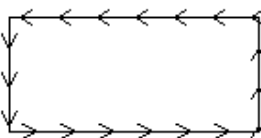
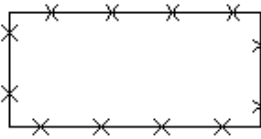

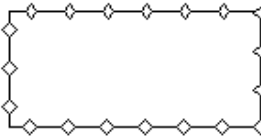

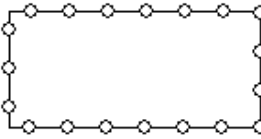
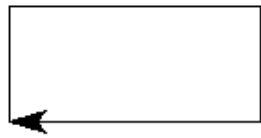

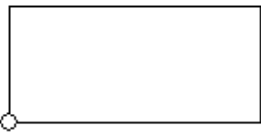
<p>Dash - Dot - Dot</p>	
<p>Null</p>	
<p>Railroad</p>	
<p>Striped</p>	
<p>Comb (Left Only)</p>	
<p>Comb (Right Only)</p>	
<p>Comb (Long Teeth, Left Only)</p>	
<p>Comb (Long Teeth, Right Only)</p>	
<p>Comb (Widely Spaced, Left Only)</p>	

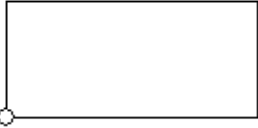

<p>Comb (Widely Spaced, Right Only)</p>	
<p>Comb (Long &amp; Short Teeth, Left Only)</p>	
<p>Comb (Long &amp; Short Teeth, Right Only)</p>	
<p>Comb (Double Teeth, Left Only)</p>	
<p>Comb (Double Teeth, Right Only)</p>	
<p>Comb (Triplet, Left Only)</p>	
<p>Comb (Triplet, Right Only)</p>	
<p>Rake (Narrow Spaced, Left Only)</p>	
<p>Rake (Narrow Spaced, Right Only)</p>	

<p>Rake (Widely Spaced, Left Only)</p>	
<p>Rake (Widely Spaced, Right Only)</p>	
<p>Solid with Minus Signs on Left</p>	
<p>Solid with Minus Signs on Right</p>	
<p>Solid with Plus Signs on Left</p>	
<p>Solid with Plus Signs on Right</p>	
<p>Solid with Dots on Left</p>	
<p>Solid with Dots on Right</p>	
<p>Solid with Ts on Left</p>	

<p>Solid with Ts on Right</p>	
<p>Solid with Rectangles on Left</p>	
<p>Solid with Rectangles on Right</p>	
<p>Solid with Squares on Left</p>	
<p>Solid with Squares on Right</p>	
<p>Half Circles (Tightly Spaced, Left Only)</p>	
<p>Half Circles (Tightly Spaced, Right Only)</p>	
<p>Half Circles (Widely Spaced, Left Only)</p>	
<p>Half Circles (Widely Spaced, Right Only)</p>	

<p>Solid with Diamonds on Left</p>	
<p>Solid with Diamonds on Right</p>	
<p>V Track (Opens Towards End of Null Line)</p>	
<p>V Track (Opens Towards Start of Null Line)</p>	
<p>C Track (Opens Towards End of Line)</p>	
<p>C Track (Opens Towards Start of Line)</p>	
<p>Arrow Track (Points Towards Start of Line)</p>	
<p>Arrow Track (Points Towards End of Line)</p>	
<p>V Track (Opens Towards End of Solid Line)</p>	

<p>V Track (Opens Towards Start of Solid Line)</p>	
<p>Solid with Xs Through Line</p>	
<p>Solid with Diamonds along Line</p>	
<p>Solid with Empty Diamonds along Line</p>	
<p>Solid with Circles along Line</p>	
<p>Solid with Empty Circles along Line</p>	
<p>Solid with Arrow Pointing to Start</p>	
<p>Solid with Arrow Pointing to End</p>	
<p>Solid with Empty Circle at Start</p>	

Solid with Empty Circle at End	
Solid with Black Edges	

## Line Styles

Using the Line Styles panel users can configure how lines of a given type will be displayed in Global Mapper. The line style, width, color, and label font can be modified on a type-by-type basis. In addition, the Show Labels for Lines of This Type option allows users to turn line labels off on a type-by-type basis.

The Display Roads As Fat Lines When Zoomed In option allows users to turn on/off the "fattening" of road lines when zoom in tight on them.

Global Mapper's Line Types are listed in the Global Mapper Line Types table. Drawing Styles are listed in the Global Mapper Drawing Styles table.

Global Mapper recognizes four field attributes as containing information for the display appearance of a Line Type. They are:

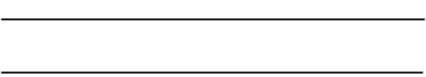


```
GM_TYPE=Airport Runway
LINE_WIDTH=1
LINE_COLOR=RGB(0,0,0)
LINE_STYLE=Solid
```

The "LINE\_STYLE=" field attribute can be set to any one of the 60 Drawing Styles shown in the Global Mapper Drawing Styles table.


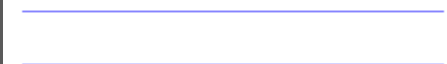







## Line Types


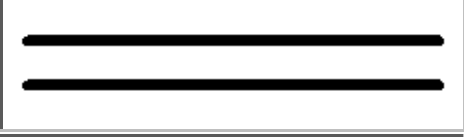
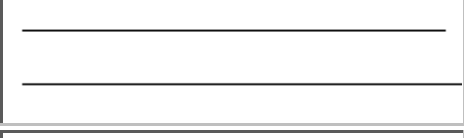
Upper line shows line types normal appearance. Lower line shows how line type appears when "Display Roads As Fat Lines When Zoomed In" option is checked and display is zoomed in.






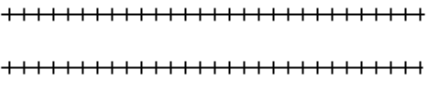
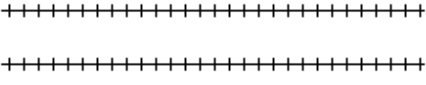
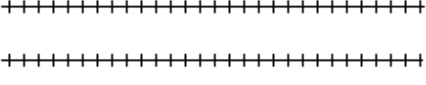





Global Mapper's View --> Background Color... color designation influences which lines can be seen. Any line whose color is the same as the Global Mapper Background Color will not be seen. Example, for a white Background Color (RGB 255,255,255), the Processing/Closure Line will not be visible.



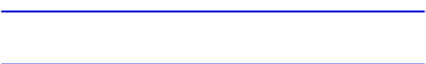
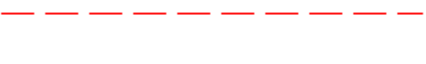


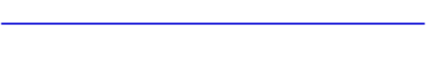
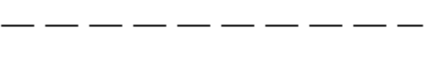
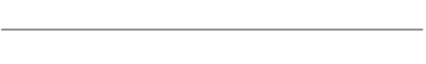
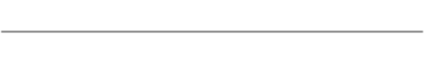


Global Mapper Built-In Line Types				
Line Type	Example	Drawing Style	Line Width	Line Color
Airport Runway		Solid	1	0,0,0
Alley or Driveway		Solid	1	128,128,128
Arterial Road		Solid	2	0,128,0



Bathymetric Contour, Intermediate		Solid	2	132,130,255
Bathymetric Contour, Major		Solid	3	132,130,255
Bathymetric Contour, Minor		Solid	1	132,130,255
Bathymetric Contour, Supplementary		Solid	1	132,130,255
City Boundary		Solid	1	0,0,0
Collector Road		Solid	1	255,128,0
Contour Line, Intermediate		Solid	2	128,64,0
Contour Line, Major		Solid	3	128,64,0
Contour Line, Minor		Solid	1	128,64,0
Contour Line, Supplementary		Solid	1	128,64,0
County Route		Solid	2	255,0,255
Deleted Line		Dash	1	192,192,192
Digitizer Tool Line		Striped	5	255,255,0





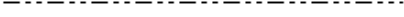



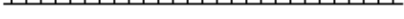



















Dry Stream or River		Dot	1	0,0,211
Ferry Route		Solid	1	255,128,0
Grid Line		Solid	1	128,128,128
Grid Line - Major		Solid	2	128,128,128
Grid Line - Minor		Solid	1	128,128,128
Intermittent Stream or River		Dash	1	0,0,211
International Political Boundary		Solid	6	0,0,0
Interstate		Solid	3	132,130,255
Invisible Boundary		Dot	1	192,192,192
Major Political Boundary (State)		Solid	5	128,128,128
Major/US Highway		Solid	2	255,64,64
Marine Route		Solid	1	0,0,0
Measurement		Striped	5	255,255,0


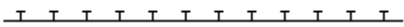

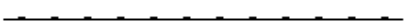
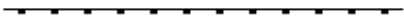
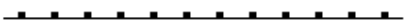
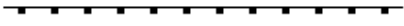




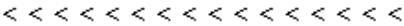
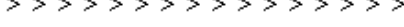
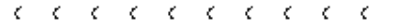
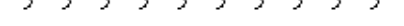
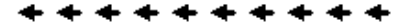

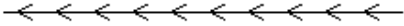

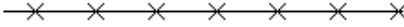



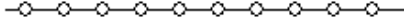

Minor Political Boundary (County)		Solid	4	0,0,0
Park Boundary		Solid	1	0,255,0
Pipeline		Dash	1	128,128,128
Powerline		Dash - Dot	1	128,128,128
Processing/Closure Line		Solid	2	255,255,255
Railroad		Railroad	1	0,0,0
Railroad, Class 1A		Railroad	1	0,0,0
Railroad, Class 1B		Railroad	1	0,0,0
Ramp		Solid	1	0,255,255
Residential Road		Solid	1	128,128,128
River, < 20 km		Solid	1	0,0,211
River, > 250 km		Solid	3	0,0,211
River, 100 - 250 km		Solid	3	0,0,211





River, 20 - 50 km		Solid	2	0,0,211
River, 50 - 100 km		Solid	2	0,0,211
River, Unknown Length		Solid	1	0,0,211
Selected Line		Dash	1	2550,0,0
Shoreline		Solid	1	0,0,0
State Highway		Solid	2	255,0,255
Stream		Solid	1	0,0,211
Tracklog		Dash	1	0,0,0
Trail		Solid	1	128,128,128
Unclassified Line Feature		Solid	1	128,128,128
Unknown Line Type		Solid	1	0,0,0
Unpaved Road		Solid	1	128,128,128

## Drawing Styles

Global Mapper Drawing Styles	
Drawing Style	Example

Solid	
Dash	
Dot	
Dash - Dot	
Dash - Dot - Dot	
Null	
Railroad	
Striped	
Comb (Left Only)	
Comb (Right Only)	
Comb (Long Teeth, Left Only)	
Comb (Long Teeth, Right Only)	
Comb (Widely Spaced, Left Only)	
Comb (Widely Spaced, Right Only)	
Comb (Long & Short Teeth, Left Only)	
Comb (Long & Short Teeth, Right Only)	
Comb (Double Teeth, Left Only)	
Comb (Double Teeth, Right Only)	
Comb (Triplet, Left Only)	
Comb (Triplet, Right Only)	
Rake (Narrow Spaced, Left Only)	
Rake (Narrow Spaced, Right Only)	
Rake (Widely Spaced, Left Only)	
Rake (Widely Spaced, Right Only)	
Solid with Minus Signs on Left	
Solid with Minus Signs on Right	
Solid with Plus Signs on Left	
Solid with Plus Signs on Right	

Solid with Dots on Left	
Solid with Dots on Right	
Solid with Ts on Left	
Solid with Ts on Right	
Solid with Rectangles on Left	
Solid with Rectangles on Right	
Solid with Squares on Left	
Solid with Squares on Right	
Half Circles (Tightly Spaced, Left Only)	
Half Circles (Tightly Spaced, Right Only)	
Half Circles (Widely Spaced, Left Only)	
Half Circles (Widely Spaced, Right Only)	
Solid with Diamonds on Left	
Solid with Diamonds on Right	
V Track (Opens Towards End of Null Line)	
V Track (Opens Towards Start of Null Line)	
C Track (Opens Towards End of Line)	
C Track (Opens Towards Start of Line)	
Arrow Track (Points Towards Start of Line)	
Arrow Track (Points Towards End of Line)	
V Track (Opens Towards End of Solid Line)	
V Track (Opens Towards Start of Solid Line)	
Solid with Xs through Line	
Solid with Diamonds along Line	
Solid with Empty Diamonds along Line	
Solid with Circles along Line	
Solid with Empty Circles along Line	
Solid with Arrow Pointing to Start	

Solid with Arrow Pointing to End	
Solid with Empty Circle at Start	
Solid with Empty Circle at End	
Solid with Black Edges	

## Point Styles

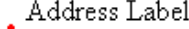
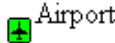
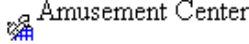
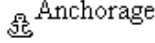


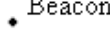
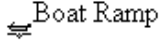
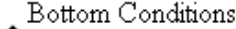
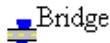
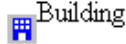
Using the Point Styles panel users can configure what symbol will be used to display points of a given type. In addition, the Show Labels for Points of This Type option allows a user to turn point labels off on a type-by-type basis. The Custom Symbols section allows users to create new symbols from their own bitmap and icon files which they can then use as the symbol to display for a given type.

Global Mapper's Point Type Features are listed in the Global Mapper Point Type Features table. Symbols are listed in the Global Mapper Symbols table.

Global Mapper recognizes two field attributes as containing information for the display appearance of a Point Type. They are:

```
GM_TYPE=Address Label
POINT_SYMBOL=Dot - Red
```





## Point Type Features

<b>Global Mapper Built-In Point Type Features</b>		
<b>Point Type</b>	<b>Example</b>	<b>Symbol</b>
Address Label	 Address Label	Dot - Red
Airport	 Airport	Airport
Amusement Center	 Amusement Center	Amusement Center
Anchorage	 Anchorage	Marina
Arch	 Arch	Arch
Bank	 Bank	Bank
Beacon	 Beacon	Dot
Boat Ramp	 Boat Ramp	Boat Ramp
Bottom Conditions	 Bottom Conditions	Dot
Bridge	 Bridge	Bridge
Building	 Building	School

Buoy	 Buoy	Dot
Campground	 Campground	Campground
Cemetery	 Cemetery	Cemetery
Church	 Church	Church
City, < 10K	 City, < 10K	Dot
City, > 10M	 City, > 10M	Dot
City, 100K - 500K	 City, 100K - 500K	Dot
City, 10K - 50K	 City, 10K - 50K	Dot
City, 1M - 10M	 City, 1M - 10M	Dot
City, 500K - 1M	 City, 500K - 1M	Dot
City, 50K - 100K	 City, 50K - 100K	Dot
City, Population Unknown	 City, Population Unknown	Dot
Cliff	 Cliff	Cliff
Country	 Country	Dot
County	 County	Dot
Dam	 Dam	Dam
Danger	 Danger	Dot
First Aid	 First Aid	Hospital
Geyser	 Geyser	Geyser
Golf Course	 Golf Course	Golf
Hospital	 Hospital	Hospital
Island	 Island	Dot















































Land Grant	 Land Grant	Dot
Landmark	 Landmark	Dot
Library	 Library	Library
LIDAR, Building	LIDAR, Building	Elevation Shaded
LIDAR, Ground Shot	LIDAR, Ground Shot	Elevation Shaded
LIDAR, Power Lines	LIDAR, Power Lines	Elevation Shaded
LIDAR, Towers or Poles	LIDAR, Towers or Poles	Elevation Shaded
LIDAR, Unclassified	LIDAR, Unclassified	Elevation Shaded
LIDAR, Vegetation (High)	LIDAR, Vegetation (High)	Elevation Shaded
LIDAR, Vegetation (Low)	LIDAR, Vegetation (Low)	Elevation Shaded
LIDAR, Vegetation (Medium)	LIDAR, Vegetation (Medium)	Elevation Shaded
LIDAR, Water	LIDAR, Water	Elevation Shaded
Lighthouse	 Lighthouse	Lighthouse
Lodging	 Lodging	Lodging
Marina	 Marina	Marina
Military Installation	 Military Installation	Dot
Mine	 Mine	Mine
Park	 Park	Park
Picnic Area	 Picnic Area	Picnic Area
Picture	 Picture	Scenic View
Post Office	 Post Office	Post Office
Resturant	 Resturant	Resturant













































Restrooms	 Restrooms	Restrooms
Rock	 Rock	Rock
School	 School	School
Shopping	 Shopping	Shopping
Spot Elevation	 Spot Elevation	Spot Elevation
Spot Sounding	Spot Sounding	No Symbol
Stadium	 Stadium	Stadium
State	 State	Dot
Stream Origin	 Stream Origin	Stream Origin
Summit	 Summit	Summit
Swimming Area	 Swimming Area	Swimming Area
Tower	 Tower	Tower
Unclassified Point Feature	 Unclassified Point Feature	Dot
Unknown Point Feature	 Unknown Point Feature	Dot
Waterfall	 Waterfall	Waterfall
Waypoint	 Waypoint	Dot
Weigh Station	 Weigh Station	Weigh Station
Well	 Well	Well
Wreck	 Wreck	Wreck













































## Symbols







# Global Mapper Built-In Symbols

Name	Symbol	2x Sym Details
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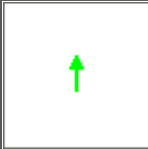



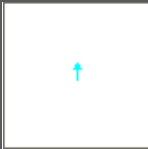

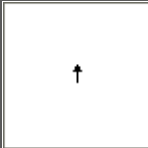
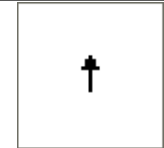


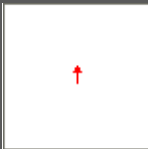

Airport		
Amusement Center		
Arch		
Auto Rental		
Bank		
Beacon		
Big Red X		
Big Yellow X		
Boat Ramp		
Bridge		
Bullseye		
Campground		
Cemetery		
Church		
Cliff		
Dam		
Danger Area		
Deer		
Diag Crosshair - Red		
Diag Crosshair - Yellow		
Dot		
Dot - Blue		

























Dot - Green		
Dot - Red		
Dot - White		
Dot - Yellow		
Elevation Shaded		
Fish		
Fuel		
Geyser		
Golf		
Hospital		
Library		
Lighthouse		
Little Blue X		
Lodging		
Marina		
Mine		
No Symbol		
Park		
Phone		
Picnic Area		
Post Office		
Resturant		

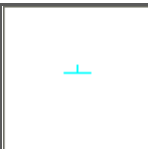
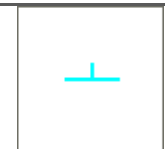
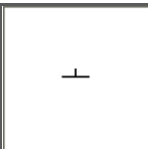
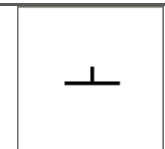
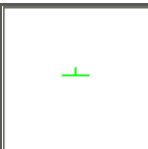
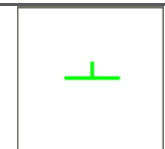

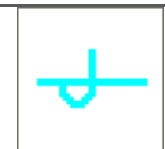
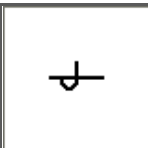
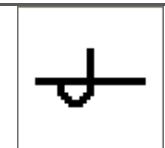
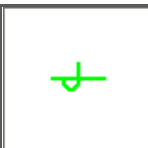
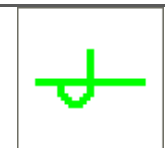
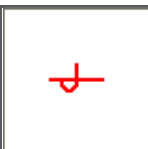


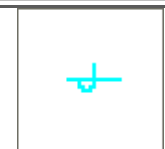
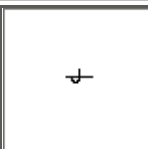
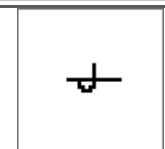
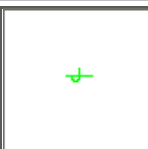
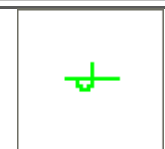
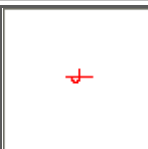

Restroom		
Rock		
Scenic View		
School		
Shopping		
Skiing		
Spot Elevation		
Stadium		
Stream Origin		
Summit		
Swimming Area		
Tower		
Waterfall		
Weigh Station		
Well		
Well - Active		
Well - Active at TD		
Well - Dryhole		
Well - Gas		
Well - Injection		
Well - Location		
Well - Oil		

Well - Oil and Gas		
Well - Suspended		
Wreck		

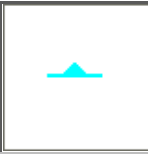
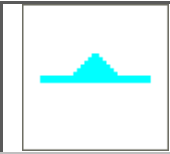
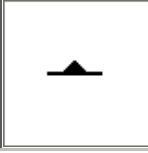
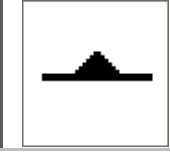
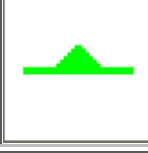
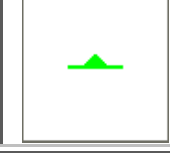
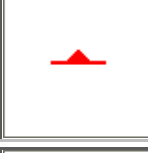
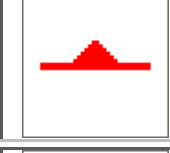

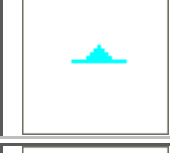





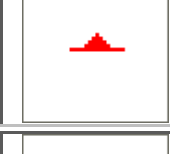
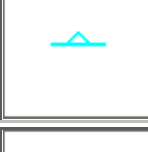
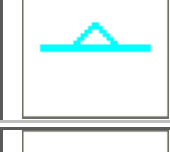

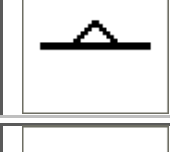
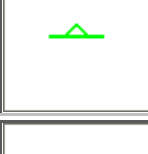
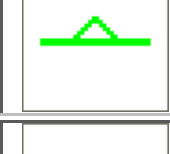


**Symbols - Geology**

























<b>Global Mapper Built-In Symbols</b>		
<b>Name</b>	<b>Symbol</b>	<b>2X Sym Details</b>
Geology - Arrow (Medium, Aqua)		
Geology - Arrow (Medium, Black)		
Geology - Arrow (Medium, Green)		
Geology - Arrow (Medium, Red)		
Geology - Arrow (Small, Aqua)		
Geology - Arrow (Small, Black)		
Geology - Arrow (Small, Green)		
Geology - Arrow (Small, Red)		

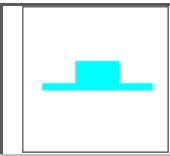
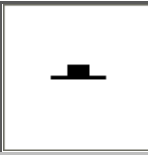
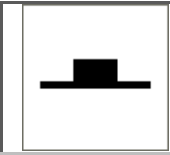
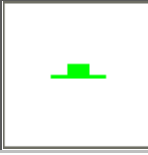
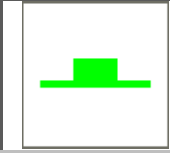
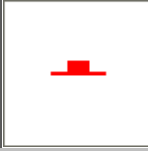
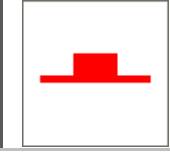

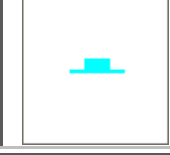

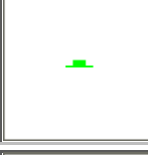
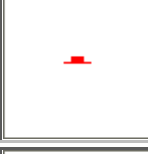
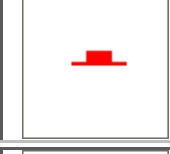

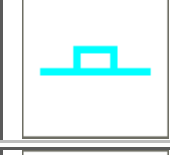
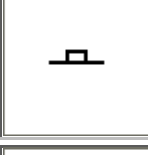
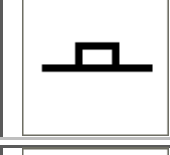
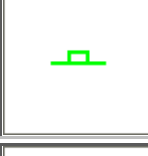
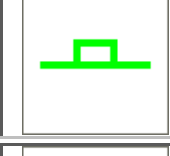

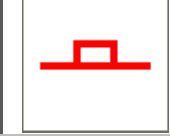
Geology - Cleavage (Medium, Aqua)		
Geology - Cleavage (Medium, Black)		
Geology - Cleavage (Medium, Green)		
Geology - Cleavage (Medium, Red)		
Geology - Cleavage (Small, Aqua)		
Geology - Cleavage (Small, Black)		
Geology - Cleavage (Small, Green)		
Geology - Cleavage (Small, Red)		
Geology - Dip, Bedding (Medium, Aqua)		
Geology - Dip, Bedding (Medium, Black)		
Geology - Dip, Bedding (Medium, Green)		
Geology - Dip, Bedding (Medium, Red)		























Geology - Dip, Bedding (Small, Aqua)		
Geology - Dip, Bedding (Small, Black)		
Geology - Dip, Bedding (Small, Green)		
Geology - Dip, Bedding (Small, Red)		
Geology - Dip, Overturned (Medium, Aqua)		
Geology - Dip, Overturned (Medium, Black)		
Geology - Dip, Overturned (Medium, Green)		
Geology - Dip, Overturned (Medium, Red)		
Geology - Dip, Overturned (Small, Aqua)		
Geology - Dip, Overturned (Small, Black)		
Geology - Dip, Overturned (Small, Green)		
Geology - Dip, Overturned (Small, Red)		



Geology - Foliation, Closed (Medium, Aqua)		
Geology - Foliation, Closed (Medium, Black)		
Geology - Foliation, Closed (Medium, Green)		
Geology - Foliation, Closed (Medium, Red)		
Geology - Foliation, Closed (Small, Aqua)		
Geology - Foliation, Closed (Small, Black)		
Geology - Foliation, Closed (Small, Green)		
Geology - Foliation, Closed (Small, Red)		
Geology - Foliation, Open (Medium, Aqua)		
Geology - Foliation, Open (Medium, Black)		
Geology - Foliation, Open (Medium, Green)		
Geology - Foliation, Open (Medium, Red)		

Geology - Foliation, Open (Small, Aqua)		
Geology - Foliation, Open (Small, Black)		
Geology - Foliation, Open (Small, Green)		
Geology - Foliation, Open (Small, Red)		
Geology - Horizontal Bedding (Medium, Aqua)		
Geology - Horizontal Bedding (Medium, Black)		
Geology - Horizontal Bedding (Medium, Green)		
Geology - Horizontal Bedding (Medium, Red)		
Geology - Horizontal Bedding (Small, Aqua)		
Geology - Horizontal Bedding (Small, Black)		
Geology - Horizontal Bedding (Small, Green)		
Geology - Horizontal Bedding (Small, Red)		

Geology - Joint, Closed (Medium, Aqua)		
Geology - Joint, Closed (Medium, Black)		
Geology - Joint, Closed (Medium, Green)		
Geology - Joint, Closed (Medium, Red)		
Geology - Joint, Closed (Small, Aqua)		
Geology - Joint, Closed (Small, Black)		
Geology - Joint, Closed (Small, Green)		
Geology - Joint, Closed (Small, Red)		
Geology - Joint, Open (Medium, Aqua)		
Geology - Joint, Open (Medium, Black)		
Geology - Joint, Open (Medium, Green)		
Geology - Joint, Open (Medium, Red)		

Geology - Joint, Open (Small, Aqua)		
Geology - Joint, Open (Small, Black)		
Geology - Joint, Open (Small, Green)		
Geology - Joint, Open (Small, Red)		
Geology - Vertical Bedding (Medium, Aqua)		
Geology - Vertical Bedding (Medium, Black)		
Geology - Vertical Bedding (Medium, Green)		
Geology - Vertical Bedding (Medium, Red)		
Geology - Vertical Bedding (Small, Aqua)		
Geology - Vertical Bedding (Small, Black)		
Geology - Vertical Bedding (Small, Green)		
Geology - Vertical Bedding (Small, Red)	