

**PRE-NUMBERED FLORIDA HIGHWAY SHIELDS**  
Incorporating Series IIa Shield Designs

**Version "A" Created 02/14/02**

**Marker Symbols by Data Deja View**  
for:  
**Workstation Arc/Info, ArcView 3.x,**  
**and ArcGIS 8.x Desktop**

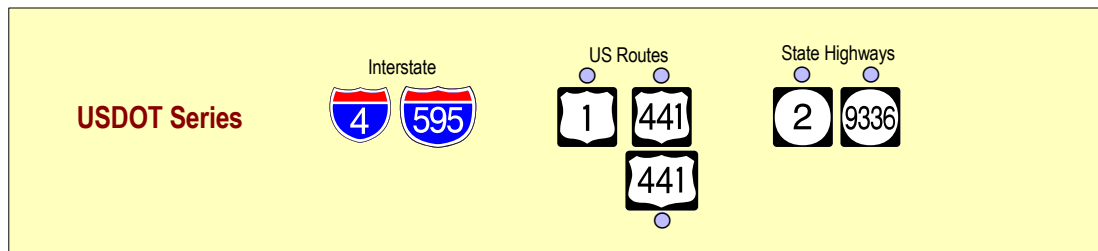
This set contains several styles of highway  
route signs with pre-numbered shields for:

**12 Interstate Highways**  
**26 US Highways**  
**383 State Highways**

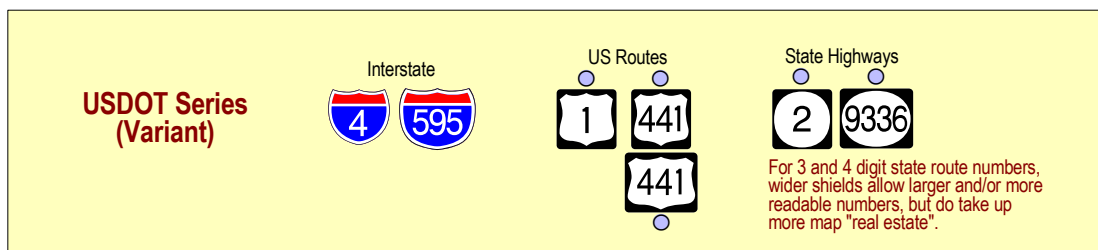
**Legend for User Changeable  
Shield Color Layers**

- = Changeable Foreground Color  
(shown in black or gray)
- = Changeable Background Color  
(shown in white)

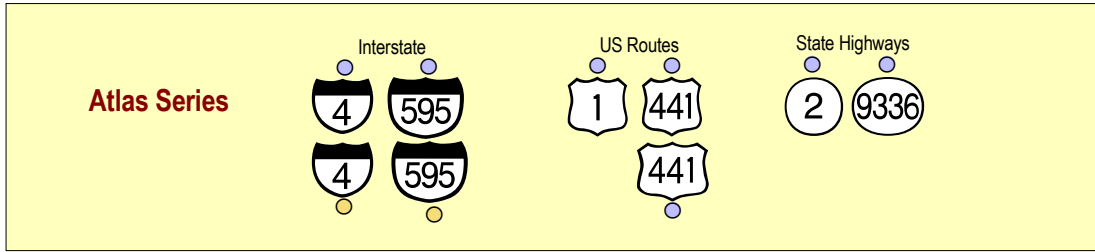
It is only necessary to install the specific series that you will be using. The following descriptions indicate which fonts and which markersets, palettes and/or styles must be installed for each series.



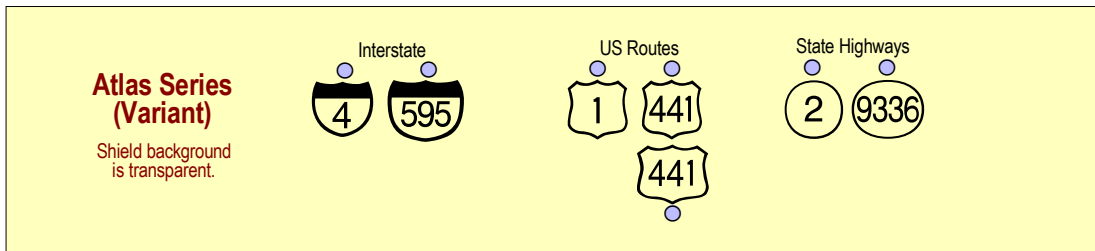
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL01A.TTF	70901	DDVFL01A	DDVFL01A.MRK	DDVFL01A.AVP	DDVFL01A.Style
DDVFL01A.TTF	70902	DDVFL02A			
DDVFL03A.TTF	70903	DDVFL03A			
DDVFL04A.TTF	70904	DDVFL04A			



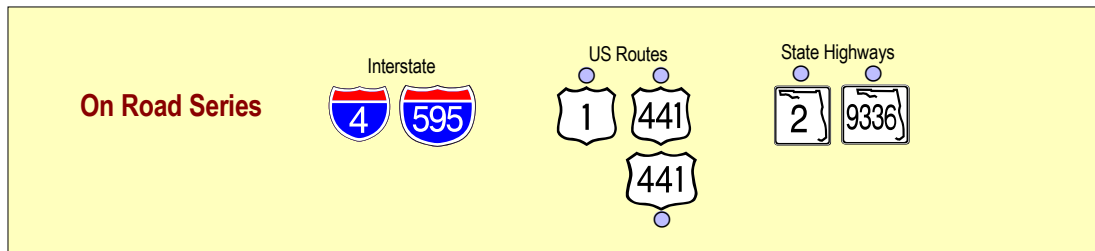
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL05A.TTF	70905	DDVFL05A	DDVFL05A.MRK	DDVFL05A.AVP	DDVFL05A.Style
DDVFL06A.TTF	70906	DDVFL06A			
DDVFL07A.TTF	70907	DDVFL07A			
DDVFL08A.TTF	70908	DDVFL08A			



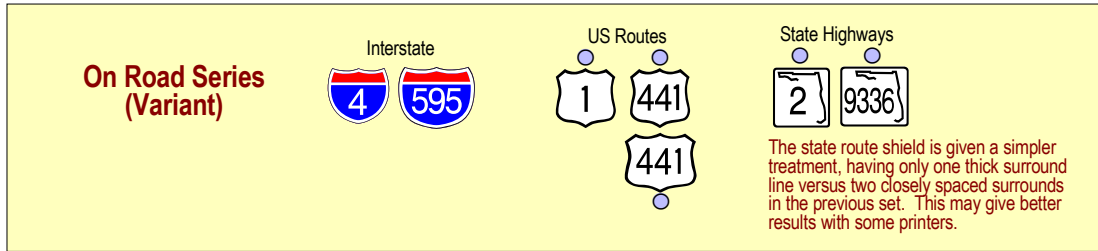
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL09A.TTF	70909	DDVFL09A	DDVFL09A.MRK	DDVFL09A.AVP	DDVFL09A.Style
DDVFL10A.TTF	70910	DDVFL10A			
DDVFL11A.TTF	70911	DDVFL11A			
DDVFL12A.TTF	70912	DDVFL12A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL09A.TTF	70909	DDVFL09A	DDVFL10A.MRK	DDVFL10A.AVP	DDVFL10A.Style
DDVFL10A.TTF	70910	DDVFL10A			
DDVFL11A.TTF	70911	DDVFL11A			
DDVFL12A.TTF	70912	DDVFL12A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL13A.TTF	70913	DDVFL13A	DDVFL13A.MRK	DDVFL13A.AVP	DDVFL13A.Style
DDVFL14A.TTF	70914	DDVFL14A			
DDVFL15A.TTF	70915	DDVFL15A			
DDVFL16A.TTF	70916	DDVFL16A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVFL17A.TTF	70917	DDVFL13A	DDVFL13A.MRK	DDVFL13A.AVP	DDVFL13A.Style
DDVFL18A.TTF	70918	DDVFL14A			
DDVFL19A.TTF	70919	DDVFL15A			
DDVFL20A.TTF	70920	DDVFL16A			

### ArcView 3.x INSTALLATION INSTRUCTIONS

NOTE: These instructions assume you temporarily saved the WinZip file in your C:\TEMP directory and unzipped the files in that location. Substitute paths as appropriate to your system and file names according to the file set you received. Instructions assume a WIN 95, WIN 2000 or NT 4.0 installation (action with WIN XP should be similar). C:\TEMP should now contain the following:

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.AVP Marker sets will have four or more palettes.

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note that \.....\ refers to the path where ArcView as installed. For example "D:\ESRI\AV\_GIS31\ARCVIEW"

### WINTTEL PLATFORM =====

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

STEP 1 INSTALL THE FONT - Navigate as follows:

Start -> Settings -> Control Panel -> Fonts -> File -> Install New Font

When prompted navigate to C:\TEMP and the names of the true type font(s) should appear. Select DDVxxxx (True Type). Also select the any other fonts included in this set of symbols. Press OK.

STEP 2 INSTALL THE PALETTE - Using Explorer or File Manager copy DDVxxxx.AVP to \.....\SYMBOLS.

STEP 3 LOAD PALETTE(S) - Now its okay to open ArcView. Load the palettes:

Window menu -> Show Symbol Window -> Palette Manager -> Load

This will invoke the Load Palette dialog. Navigate to \....\SYMBOLS and select DDVxxxx.AVP. Don't worry if the load takes somewhat longer than for other palettes; that's normal.

The DDVxxxx symbols should now appear under Markers after any already loaded marker sets.

STEP 4 Use them ! ... and hopefully produce your Layouts a little more quickly.

**NOTE: If you have installation problems, please refer to the Troubleshooting section below.**

## UNIX PLATFORM =====

Data Deja View has only tested markers on one UNIX platform. The good news is that the markers installed successfully. The bad news is that UNIX ArcView does not put together composite markers the same way as WinTel ArcView. Some layer misalignments may be so severe that the marker is not useable. Markers with all color layers about the same size don't seem to exhibit this problem and appear to be useable.

With DDV series IIa shield designs, users may now see a decrease in UNIX alignment problems.

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

And as with all UNIX systems "Don't forget your permissions!"

STEP 1 - Copy all the fonts to the font directory under ArcView. In the system tested by DDV this directory path was:

`/usr/esri/arcview3/fonts`

STEP 2 - Copy all the palettes to the symbols directory under ArcView. In the tested system this directory path was:

`/usr/esri/arcview3/symbols`

STEP 3 - Edit the "font.ndx" file to add entries for the new fonts. In the tested system the path to this directory was:

`/usr/esri/arcview3/etc/font.ndx`

Sample entries used for two DDV fonts are as follows:

```
TRUETYPE 990004 $AVHOME/fonts/ddvhazib.ttf 990004
TRUETYPE ddvhaz1b
  NAME   = ddvhaz1b
  FAMILY = ddvhaz1b
  STYLE  = Normal
```

```
TRUETYPE 990005 $AVHOME/fonts/ddvvt01c.ttf 990005
TRUETYPE ddvvt01c
  NAME   = ddvvt01c
  FAMILY = ddvvt01c
  STYLE  = Normal
```

STEP 4 - Open up ArcView and hopefully enjoy (at least some) of these custom symbols.

NOTE: Some UNIX flavors may need additional coaxing and coddling. See your (hopefully friendly and available) UNIX administrators.

## Arc/Info 7.x/8.x INSTALLATION INSTRUCTIONS

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF    Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.MRK    Markersets will have four or more palettes. These must be installed using FONTLOAD and the Font Numbers shown in the tables at the beginning of this document must be used

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note \$ARCHOME refers to the path to ArcInfo as in "D:\ESR\ARC\EXE80\"

**Arc/Info Markerset Special Note:**    Arc/Info markersets are limited to a maximum of 999 component symbol layers. With the large number of routes in some states, in those cases it was necessary to use two markersets for each shield series. While it will be inconvenient to have to work with first one and then the other markerset, there is no way around this at this time, short of dropping some route numbers or their variants.

### WINTel PLATFORM =====

STEP 1 COPY THE FONTS to the directory of the font library you will use. This may be \$ARCHOME\FONTS or some other directory.

STEP 2 COPY THE .MRK files to the directory from which you wish to load them while in ArcInfo. ESRI's .MRKS are normally are stored in \$ARCHOME\SYMBOLS. You may use this or some other directory.

STEP 3 LOAD THE FONTS. At the ARC prompt type AP to start ArcPlot and then type in FONTLOAD. In the FONT LOADER form, make the following set of entries:

Font Type:	TRUETYPE
Library:	The path to font library you are using
Number:	The Font Number corresponding to the font now being loaded (see the READxx.TXT file) NOTE: do not change these numbers.
Fontname:	The name of the font now being loaded (see the READxx.txt file)

Press ACCEPT after completing the entries for one font.

Repeat the above Step 3 actions for each additional font to be loaded.

When all fonts have been loaded, press SAVE.

To check that the installation went smoothly, do the following from ArcPlot:

```
DISPLAY 9999
MARKERSET (name of the markerset to be made the current set)
SYMBOLDUMP MARKER SCREEN
```

This will display the markers on the screen.

## UNIX PLATFORM =====

Data Deja View does not have UNIX platforms available for testing these markers and cannot offer installation instructions or other guidance. However, these markersets "should" install in the same manner as used for ESRI markersets. We would be interested in hearing of the experiences of UNIX users who do try these markersets.

## ArcGIS 8 Desktop INSTALLATION INSTRUCTIONS

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
STYLESETS: DDVxxxx.Style	Marker sets will have four or more style files.
INSTRUCTIONS: XXinstall.PDF	This document.

## WINTel PLATFORM ONLY =====

IMPORTANT: Make sure that ArcGIS Desktop is CLOSED before installing the fonts. Once ArcGIS is open, it may not recognize newly loaded fonts until it is closed and then opened again.

STEP 1 INSTALL THE FONT(S) – ESRI font installation instructions indicate that ArcGIS will recognize all fonts placed in the system font folder (typically C:\WINNT\FONTS). Data Deja View has successfully used fonts placed elsewhere by installing them with Adobe Type Manager (ATM).

STEP 2 INSTALL THE STYLE(S) – The .Style files may be placed in any directory (folder).

STEP 3 LOAD STYLE(S) - Open ArcMap and navigate as follows to load styles.

Tools menu -> Styles -> Style Manager

This will invoke the Style Manager window. In the upper right corner, click on the Styles button. From the drop down menu that appears, choose Add (near the bottom of the drop down). An Open dialog box appears. Use it to navigate to the directory where you placed the style files. Select the desired style and click on the Open button. The Style will now appear in the left hand window of the Style Manager, indicating that it is active in this ArcMAP session.

**NOTE: If you have installation problems, please refer to the Troubleshooting section below.**

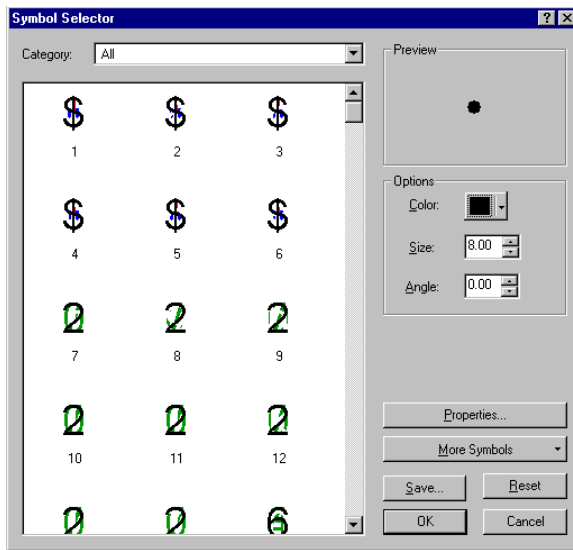
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## Troubleshooting:

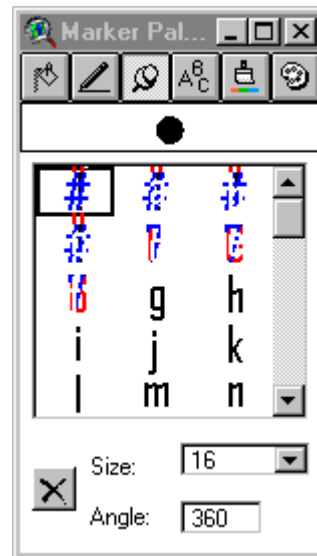
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**Problems With Initial Installation:** People frequently experience problems with font installation for ArcView 3.x and ArcGIS 8.x. This occurs with ESRI fonts, Data Deja View (DDV) fonts and other custom fonts and has been experienced in Win 95, Win 98, Win NT and Win2000. DDV fully expects to see the problem continue in Win XP. It is evidenced by alphanumeric and special character symbols appearing instead of the expected marker symbols (see examples below). In most cases the appearance of these “weird” characters is due to a failure of the Windows operating system to properly register the font(s).

### Typical Appearance of Marker Symbols When Font Installation Problems Occur



ArcGIS 8.x Style Manager



ArcView 3.x Palette Manager

**First Line of Troubleshooting:** Make sure that ArcView 3.x and ArcGIS 8.x are closed. Then open up the Control Panel's Fonts folder and look to see if the fonts show up.

Start --> Control Panel --> Fonts

On slower machines you may sometimes notice that the fonts aren't there, but that the screen repaints and the missing fonts suddenly appear. Most of the time that this occurs, the fonts are now properly registered. However, on fast machines you probably won't have a chance to see whether they are there or not before the repaint is completed.

If the fonts (TTF files) are not there, try installing them using the Font folder's Install New Fonts option:

Fonts → File → Install New Fonts

If the fonts are there (or you are not sure whether they only appeared after a screen repaint), select and delete the font(s) and then install them again from the Font folder.

Now open up ArcView 3.x and/or ArcGIS 8.x and try loading the palette or style again. Chances are that things will now work properly.

**Second Line of Troubleshooting:** Check that you have the proper fonts for the palette/style series you are trying to use (refer to the lists included in this document). The font and palette versions must match. If you have only the fonts from an old marker set version installed and try to load the palette from a new version, the “weird” characters will show up (and vice versa).

E.g., installing DDVWY01B.TTF, DDVWY02B.TTF and DDVWY03B.TTF and then loading palette DDVWY01C.AVP won’t work because they were generated from different updates and the palette is hard coded with the names of the fonts it expects to use.

**Third Line of Troubleshooting:** If there is another computer available to you with the appropriate software on it, try installing the fonts on that machine and see if the palette/style will load successfully there. If so, contact your system administrator or IT department for assistance. There is likely an operating system problem.

**If You Still Can’t Get Things to Work:** Make note of what happened in the above troubleshooting steps and contact DDV, including this information. We will attempt to address any problems resulting from our end. In doing this we may ask you to send the fonts and palettes/styles that won’t install back to DDV for analysis.

**Other Troubleshooting Help:** The ESRI online discussion groups, ArcView-L and ESRI-L have from time to time covered this topic and occasionally have found different causes and solutions. Please try looking back at older postings and/or in the archives before posting your own message. Seeing the same questions posted repeatedly does get rather old quickly.

**The Magic Approach:** Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It’s likely they were working with all fonts installed in the WINNT/FONTS directory or its equivalent in another Windows OS.) If you try this it might help to put a black cat on top of the monitor (then again it might not).

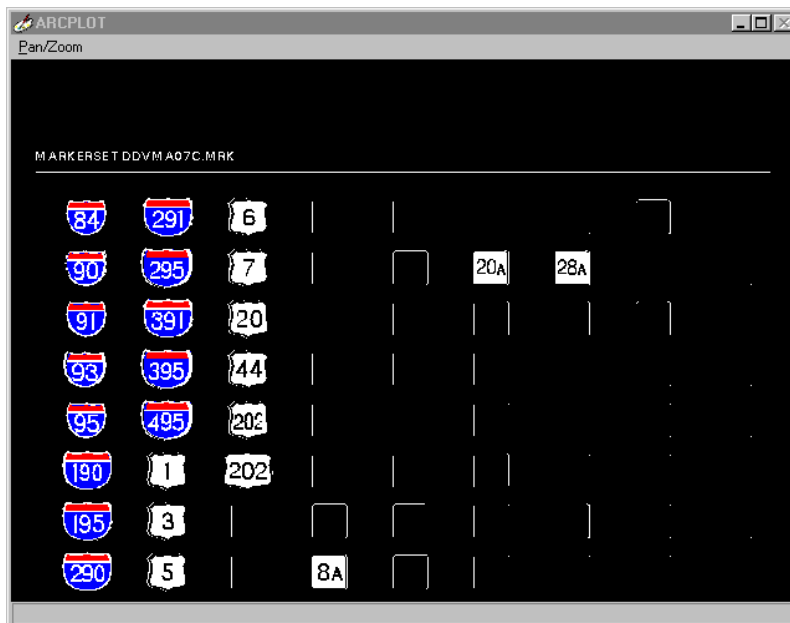
**Markers Stop Working Properly:** If marker sets that used to load successfully suddenly start to show up as “weird” characters, the font has somehow been deleted or lost registration on the system. Follow the above steps to correct the problem.

**Print Problems Involving Markers:** DDV does not have the resources to be able to successfully deal with most printing problems. The following is passed along as an observation only. In December 2001, this site started to occasionally experience situations where marker symbols showed up correctly on the screen in ArcView 3.x and ArcGIS 8, but in the middle of printing suddenly partially reverted to “weird” characters. Reprints of the same pages always resulted in all marker symbols printing correctly. This occurred in a peer-to-peer Ethernet environment with the GIS client and print server both running NT 4.0 with SP 6a.

**PROBLEM UPDATE:** Since the problem was first included in this documentation, the print server suffered an unrecoverable hard disk crash for the “C” drive. After the disk was replaced and the operating system and updated print drivers installed, print submission on the client workstation was noted to take longer, however the “weird” symbols did not reoccur. This would seem to verify that it was not an application problem.

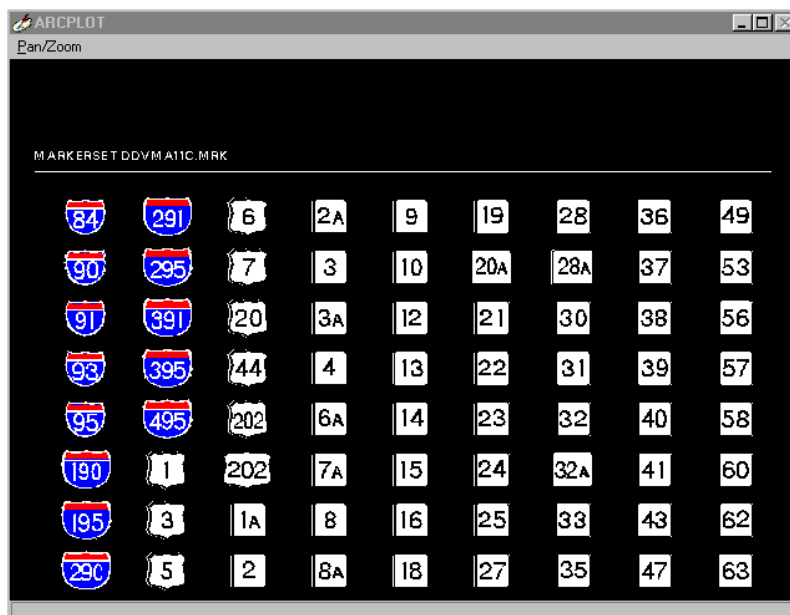
**ArcPlot Screen Viewing Problems:** For screen displays, Arc/Info workstation apparently cannot handle as fine a level of detail within font characters as can ArcView 3.x and ArcGIS 8.x. The examples below compare screen views from a marker design with a closely spaced double line border to that of the same font characters after the double line was converted to a single line. All symbols from both marker designs successfully print out (although with smaller size markers and low resolution printers the double line border may appear to print as a single line).





ArcPlot Screen Display for Markerset DDVMA07C and Sample Symbol Printout

In the above example all the state highway symbols have the same border design. Why a few of them show while most others do not is unknown.



ArcPlot Screen Display for Markerset DDVMA09C and Sample Symbol Printout



Data Deja View believes that the benefits that can be derived from use of symbols with the detailed features included in some DDV marker symbol designs outweighs this drawback, since it is limited to ArcPlot screen display (and other symbol designs within the same set do not exhibit the problem).

**Avoiding Font Problems:** If you start having problems with fonts, DDV recommends the use of Adobe Type Manager (ATM). This software is relatively inexpensive and has cured a number of font related problems at this site. Since starting to use ATM the only times that initial font registration problems have occurred here are when fonts failed to register properly when installed as part of a software installation (i.e.; the fonts were loaded by the application software, not through ATM).

ATM also cured interminable repainting of all on-screen icons and associated slow downs or hang-ups when the system already had a large number of fonts installed and Control Panel's font manager was used to install additional fonts.

DDV is not aware of anyone who has had font install problems while using ATM, but would appreciate hearing the circumstances surrounding any failures with its use.

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**USER FEEDBACK:**

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Data Deja View solicits feedback about its products, especially in the following areas:

COMPLETENESS - If highway shields for Interstate, US or State routes are missing we would like to know about it. If time allows, corrections and additions will be incorporated. If there are lower levels of roads that are really important for large regions of a state they will be considered, but will have to be given a lower priority. **We are ESPECIALLY INTERESTED IN FEEDBACK FROM STATE DOT's.**

SHIELD QUALITY - We would like your opinion as to the quality of these shields. They aren't intended to be perfect, but we do want them to be useful.

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**CONTACT INFORMATION:**

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Jim Mossman  
Data Deja View  
2113 8<sup>th</sup> Street  
Cody, WY 82414

E-Mail: [ddvgis@myavista.com](mailto:ddvgis@myavista.com)

Phone: 307-587-6667  
Monday thru Friday  
8am to 5pm Mtn time.



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