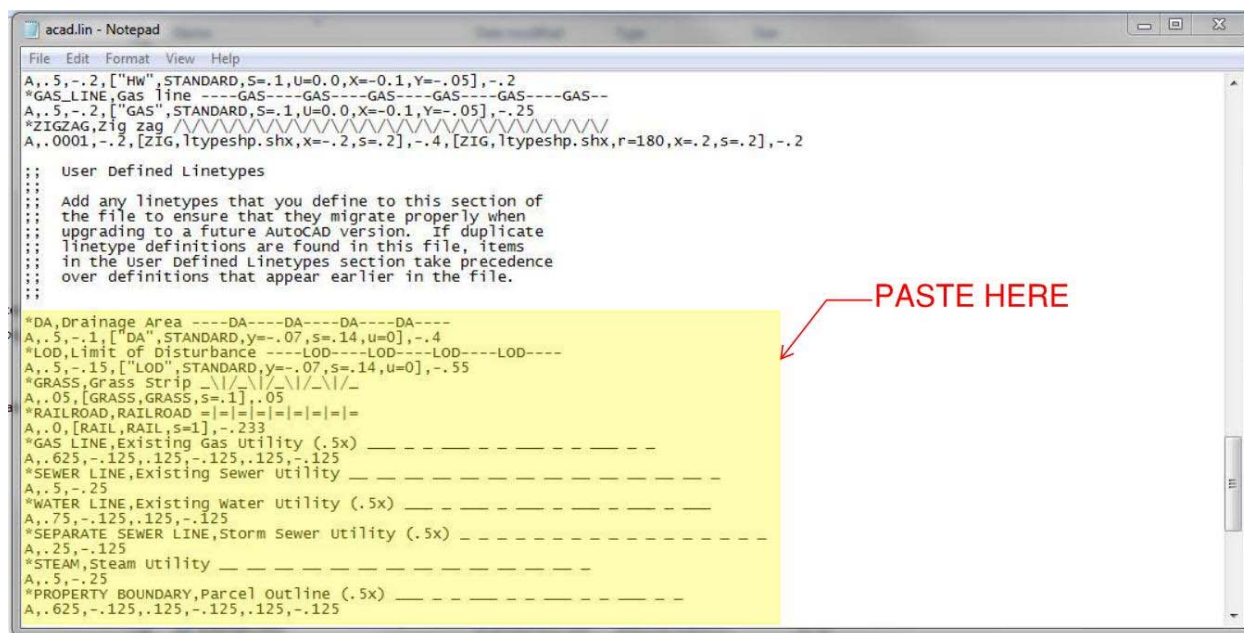# PWD GSI CAD Standards Support File Instructions for AutoCAD

Procedure 1: Linetypes

The Philadelphia Water Department (PWD) Green Stormwater Infrastructure (GSI) CAD Standards include linetype definitions that need to be loaded into AutoCAD. Listed below is the procedure for loading the proper linetypes.

1) Open windows explorer.
2) Open the folder named "SUPPORT FILES" within the "GSI_CAD_Standards" folder.
3) Open the file named "PWD GSI Linetypes 2021.lin". If you are prompted to choose a program to open the filetype with, use notepad.
4) Navigate to the AutoCAD support folder at the following path:
   For AutoCAD 2013:
   C:\Users*wea62203\AppData\Roaming\Autodesk**AutoCAD 2013 - English\R19.0\enu\Support
   For AutoCAD 2013 Civil 3D:
   C:\Users*wea62203\AppData\Roaming\Autodesk**C3D 2013\enu\Support
   *Please insert your computer username
   **Filepaths for 2013 versions, please change for other versions as required
5) Open the file named "acad.lin" with notepad.
6) Copy the entire contents of the "PWD GSI Linetypes 2021.lin" text file and paste it at the end of the "acad.lin" file, under the section labeled "User Defined Linetypes".

7) Save acad.lin and close.

Procedure 2: Shapefiles

Some of the linetypes included with the PWD GSI CAD Standards are complex linetypes that require shapefiles to work. AutoCAD must know the location of these shapefiles in order to create the linetype. Listed below is the procedure for loading the proper shapefiles.

1) Open windows explorer.
2) Open the folder named "SUPPORT FILES" within the "GSI_CAD_Standards" folder.
3) Open a second windows explorer window.
4) Navigate to the AutoCAD support folder at the following path:
   For AutoCAD 2013:
   C:\Users*wea62203\AppData\Roaming\Autodesk**AutoCAD 2013 - English\R19.0\enu\Support
   For AutoCAD 2013 Civil 3D:
   C:\Users*wea62203\AppData\Roaming\Autodesk**C3D 2013\enu\Support
   *Please insert your username
   **Filepaths for 2013 versions, please change for other versions as required
5) Copy (do not cut) and paste the following shapefiles from the "SUPPORT FILES" folder into your AutoCAD support folder:
   > GRASS.shp
   > GRASS.shx
   > RAIL.shp
   > RAIL.shx
   > SHRUB.shp
   > SHRUB.shx

Procedure 3: Name-Based Plot Style (STB)

The PWD GSI CAD Standards use a name-based plot style table (STB) that must be loaded into AutoCAD for the drawings to plot correctly. Listed below is the procedure for loading the proper STB file.

1) Open windows explorer.
2) Open the folder named "SUPPORT FILES" within the "GSI_CAD_Standards" folder.
3) Open AutoCAD.
4) In the top left corner, select the AutoCAD pull down menu:
5) Expand the arrow next to "Print", and click "Manage Plot Styles".
6) Copy (do not cut) "PWD GSI Plot Style 2021.stb" from the "SUPPORT FILES" folder into the AutoCAD plot style folder that appears.

Procedure 4: Converting from a CTB Plot Style to an STB Plot Style

Before a CAD file that was set up using the 2018 PWD GSI CAD Standards color-based plot style table (CTB) file can be plotted with the 2021 PWD GSI CAD Standards name-based plot style table (STB) file, the CAD file must be converted. Listed below is the procedure for converting CAD files from a CTB plot style to an STB plot style.

1) Load the "PWD GSI Plot Style 2021.stb" file into AutoCAD as described in Procedure 3 above.
2) Open the CAD file you want to convert, and enter the command "CONVERTPSTYLES". You'll receive a warning message to make sure you've converted a CTB file to an STB file. Click OK to dismiss this warning message.
3) Browse to the location of the "PWD GSI Plot Style 2021.stb" file that was loaded into AutoCAD in step 1 above. Select this STB file, and click "Open".
4) Save and close the CAD file. Upon reopening, the CAD file will have been converted to plot using PWD's 2021 STB file.

STB STYLE EXAMPLES

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STYLE_3	
STYLE_4	
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