PROCEDURES TO MERGE MICROSTATION DGN FILES
Keep Low Pressure Natural Gas Pipelines and Customer Symbols

1.   Prepare a blank DGN for "Merge Into" file

> *A blank file "seed_merge.dgn", is available from Rural Utilities. Copy and rename blank file for every merge*

2.   Merge all township and subdivision utility files into the empty seed file

> *Select the township utility files in folder "utl", and the subdivision utility files in folder "300utl". Then select the blank DGN (renamed) as the "Merge Into" file*

3.   Open the merge file, turn on required view attributes

> *Turn on all levels, turn on "Clip Volume", "Constructions", "Dimensions", "Data Fields", "Tags", "Text" and "Text Nodes". (Ctrl + B to open the View Attributes" window, or Settings > View Attributes to set the View Attributes)*

4.   Select all levels to keep

> *Edit > Select By Attributes*
>
> *Select all levels, use Ctrl key to turn off level 26 (PE Pipe), level 29 (PVC Pipe), level 38 (Abandoned Pipe), level 55 (Service Symbols) and level 58 (Secondary Irrigation)*
>
> *Highlight all types; Set Mode to Inclusive; Uncheck Symbology; Execute and Delete*
>
> **Note: These Co-ops have low-pressure steel that should be added to the levels above to turn off:*
>
> *ANK – level 19, TLL – level 20, and DIN – level 20*
>
> *These Co-ops have low-pressure steel, but only in certain drawings (It is easier to reference these drawings at the end of the process and copy the low pressure steel into the merge file):*
>
> *TIL – level 19/20 (dwg300), DVA – level 20 (dwg308), FMI – level 20 (dwg311), CTW – level 20 (dwg305 & 306), CTH – level 19 (dwg307, 308 & 309), CTH – level 20 (dwg309), YHD – level 20 (dwg301) and TWN – level 20 (dwg301)*

5.   Delete all Subdivision Customer #s

> *Edit > Select By Attributes*
> *Select level 55; Check on Symbology color 86; Types Cell; Mode Inclusive; Execute and Delete*

6.   Delete all Non-Burner Symbols

> *Edit > Select By Attributes*
> *Select level 55; Check on Symbology color 81; Types Cell; Mode Inclusive; Execute and Delete*

7.   Delete all Abandoned Symbols and Leader Lines

> *Edit > Select By Attributes*
> *Select level 38; Check on Symbology color 65; Types Cell, Line and Line String; Mode Inclusive; Execute and Delete*

8.   Delete all Block Valves

> *Edit > Select By Attributes*
> *Select level 26 & 32; Check on Symbology color 122; Types Cell, Mode Inclusive; Execute and Delete*

9.   Scan the merge file

> *Scan the merge file to make sure ALL UNWANTED text/text nodes/leader lines/cells are completely removed.*
> >   a)   *If you are missing lines, reference the original utl file – common scenario is the missing line is a cell on LV=2 (brought in to utl from GPS)*
> >   b)   *Some cells may have been "dropped" in the original utl file and would be missed in this process*

10. Compress the merge file and save settings

> *Ensure the coordinate system is NAD83-10TM, then compress the file and save settings*