Updates to CADD Std. And Electronic Deliverables

Weather

- Hot
- Cold
- Wet
- Dry
- All of the above.

Whether

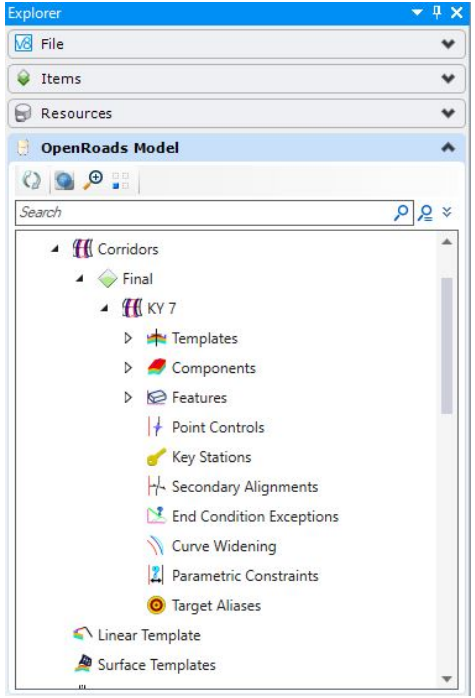
- I’m going to have to do the presentation
- I could find someone to replace me
- I was going to have time to complete the presentation

New Terminology in ORD

- MicroStation\InRoads vs OpenRoads Designer (ORD)
- Workspace (MS\InRoads) vs Configuration (ORD)
- KYTC InRoads SS2 CAD Std. vs KYTC ORD CAD Std.

New Terminology in ORD

- Geometry <- Alignments
- Terrain Models <- DTMs
- Corridor <- Roadway Designer (.IRD)

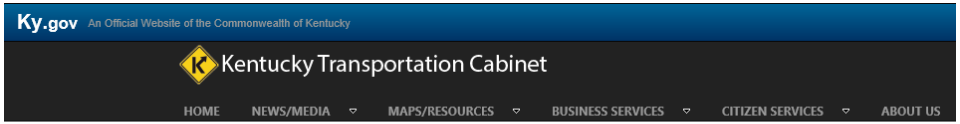


New Terminology in ORD

- Control Features
- Container Files
- SU (SUDA) <- S&S (.SDB)

Updates to CADD Std.

https://transportation.ky.gov/CADD-Standards/Pages/default.aspx



CADD Standards

Download the CADD Standards Configuration (ORD) - *BETA*

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KYTC CADD Standards Policy

Download the latest CADD Standards Workspace

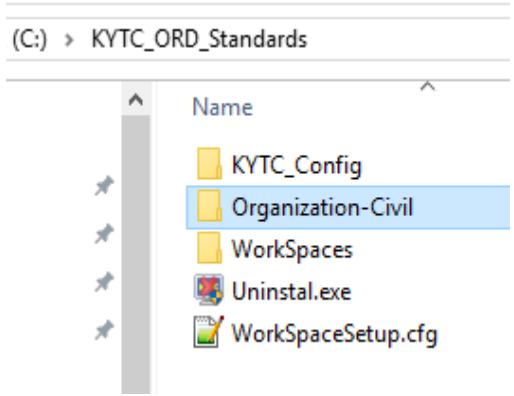
You will need to uninstall the previous version of CADD Standards before installing CADD Standards v 03.16

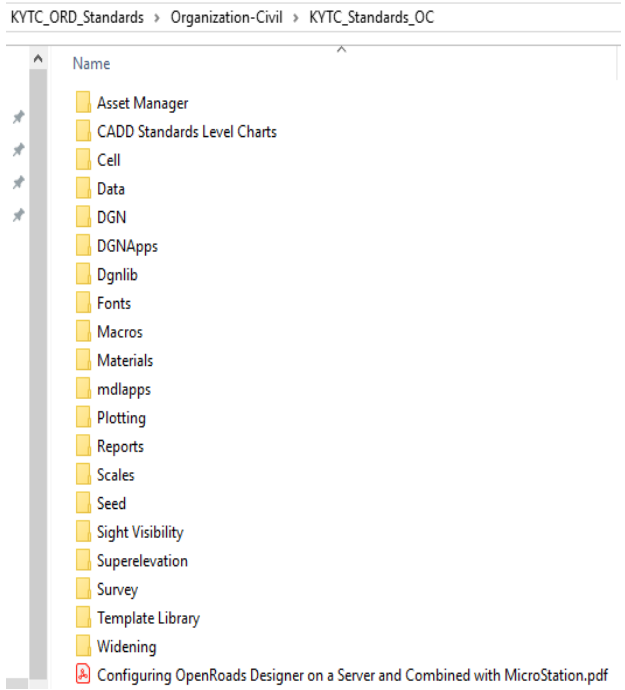
Current Software Releases recognized by KYTC CADD Standards:

MicroStation Version 08.11.07.180

Updates to CADD Std.

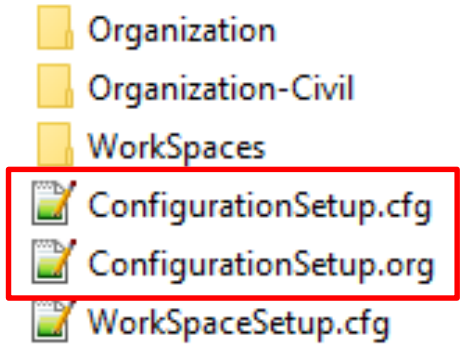
C:\KYTC_ORD_Standards\Organization-Civil\KYTC_Standards_OC





Updates to CADD Std.

C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration



Updates to CADD Std.

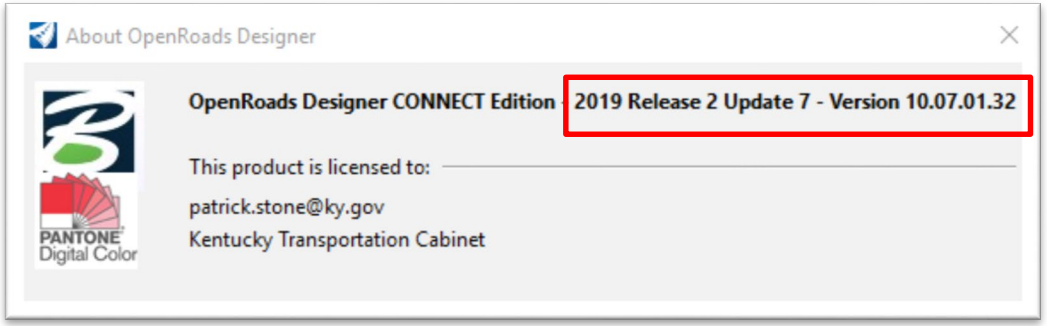
_USTN_CUSTOM_CONFIGURATION

```
##########################################################################################################
##########################################################################################################
##                                                      #||#                                            ##
## ###     ###  ###     ###  ###########    ######     #||# Name           : WorkSpaceSetup.cfg         ##
## ###      ###   ###   ###   ###########   ########    #||# Type           : Configuration file         ##
## ###     ###     ### ###        ###     ###     ###  #||# Purpose        : KYTC_ORD_Standards         ##
## ###  ###         #####         ###    ###           #||# Author         : Alex Smith                 ##
## #######           ###          ###    ###           #||# Creation Date   : 7-8-2019                  ##
## ###  ###          ###          ###    ###           #||# Modified By     :                            ##
## ###    ###        ###          ###    ###           #||# Modified Date   :                            ##
## ###     ###       ###          ###    ###     ###   #||# Config Version : 1.0                        ##
## ###      ###      ###          ###       ########   #||# Changed from    : _USTN_CUSTOM_CONFIGURATION ##
## ###       ###     ###          ###        ######    #||# Default                                      ##
##                                                      #||#                                            ##
##                                                      #||#                                            ##
##########################################################################################################
##########################################################################################################

#--------------------------------------------------------------------
#  ConfigurationSetup.cfg - Configures the root Configuration directory
#  for Your Organization
#
# The main function of this configuration file is to allow user to specify
# the root Configuration directory to activate. The active Configuration
# directory is represented by _USTN_CONFIGURATION. By default, it points to
# the installed Configuration defined by _USTN_INSTALLED_CONFIGURATION,
# which can consist of example WorkSpaces and WorkSets.
# If your organization has its own Configuration directory, you can define
# _USTN_CUSTOM_CONFIGURATION to that directory path and use it as follows.
#
#_USTN_CUSTOM_CONFIGURATION = D:/.../MyConfiguration/
#_USTN_CONFIGURATION : ${_USTN_CUSTOM_CONFIGURATION}
#--------------------------------------------------------------------

#--------------------------------------------------------------------
# START: The section defines user selection at the time of installation.
# These lines are generated by installer.
[General]

##########################################################
##########################################################
#        KYTC Changes made here
#                ##
#                ##
#              ######
#               ####
#                ##
#
_USTN_CUSTOM_CONFIGURATION = C:/KYTC_ORD_Standards/
#
##########################################################
##########################################################
```

```
40  ##########################################################
41  ##########################################################
42  #         KYTC Changes made here
43  #                 ##
44  #                 ##
45  #               ######
46  #                ####
47  #                 ##
48  #
49  _USTN_CUSTOM_CONFIGURATION = C:/KYTC_ORD_Standards/
50  #
51  ##########################################################
52  ##########################################################
```

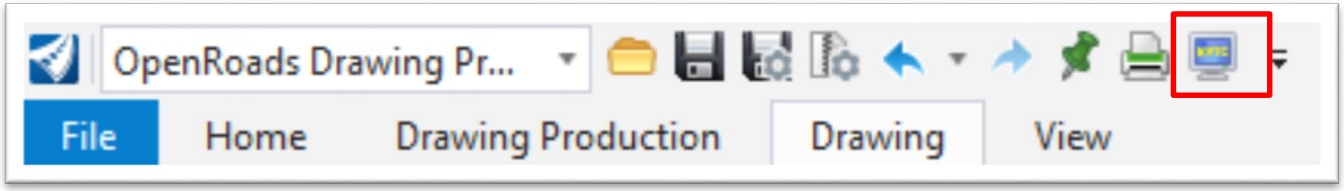
Updates to CADD Std.

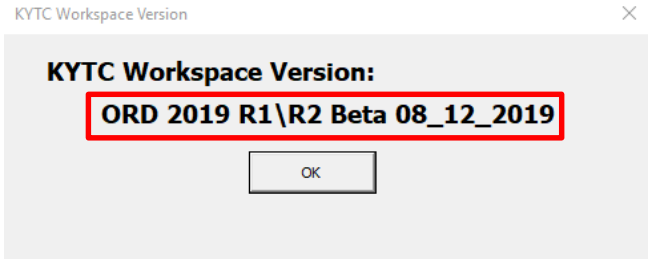
- What version of ORD are you using?



Updates to CADD Std.

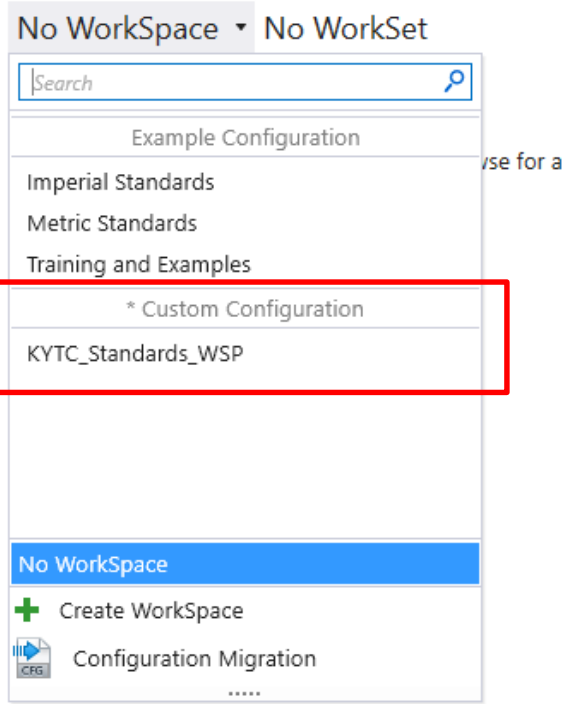
- What version of CADD standards are you using?



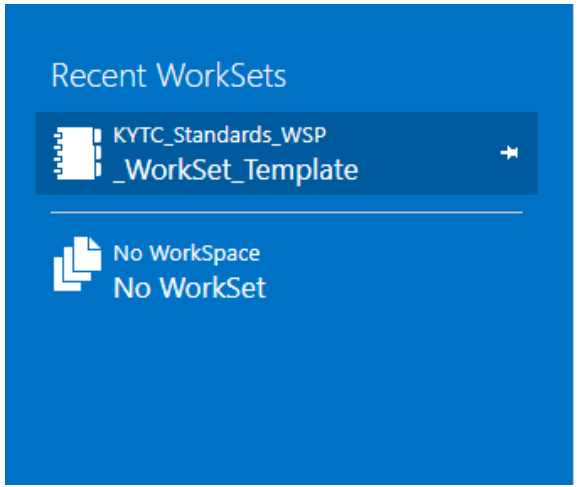


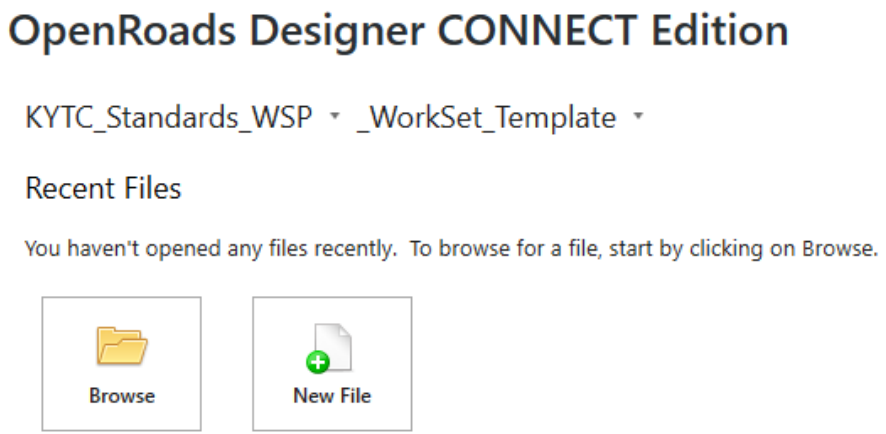
Updates to CADD Std.

- Custom Configuration
  - KYTC_Standards_WSP



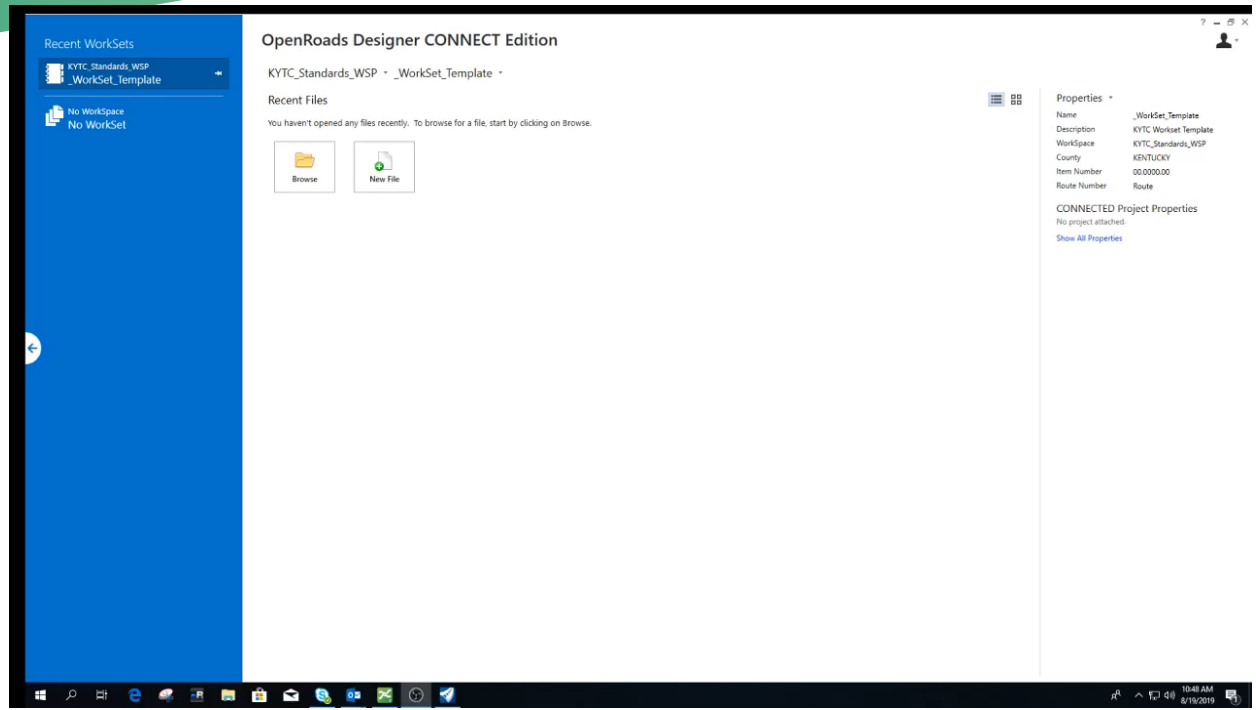
Updates to CADD Std.





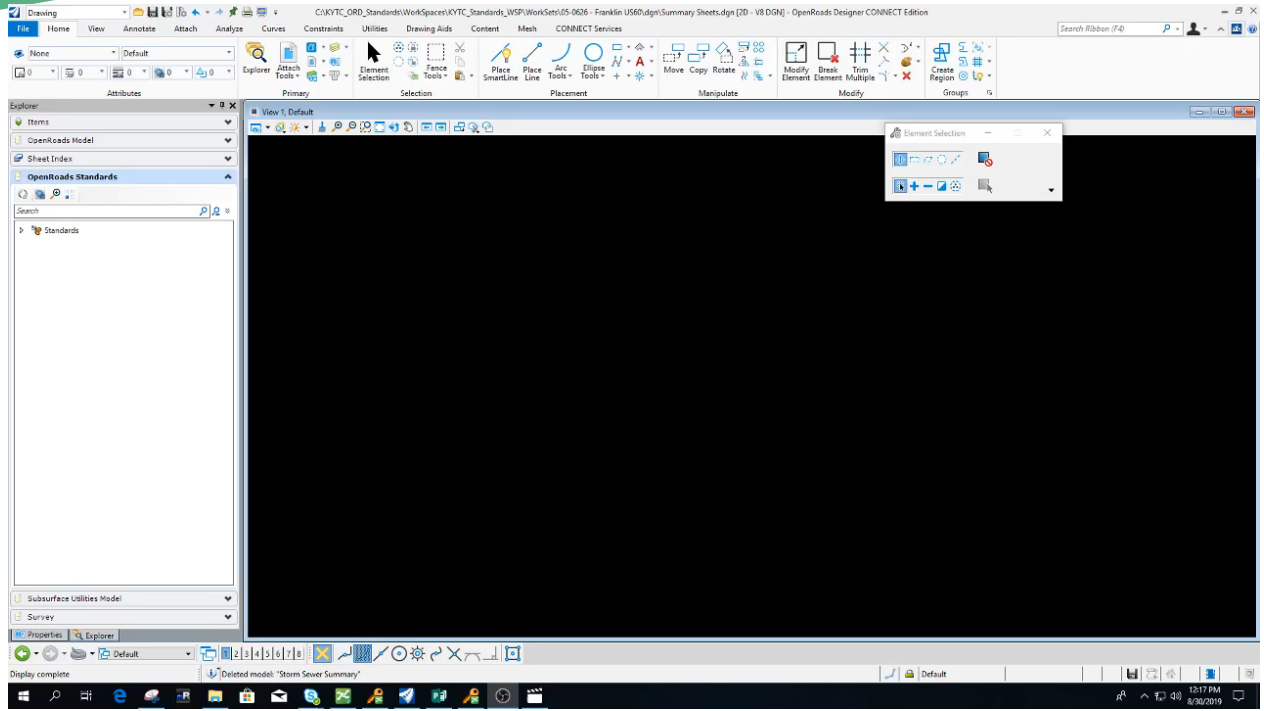
Updates to CADD Std.

- WorkSets



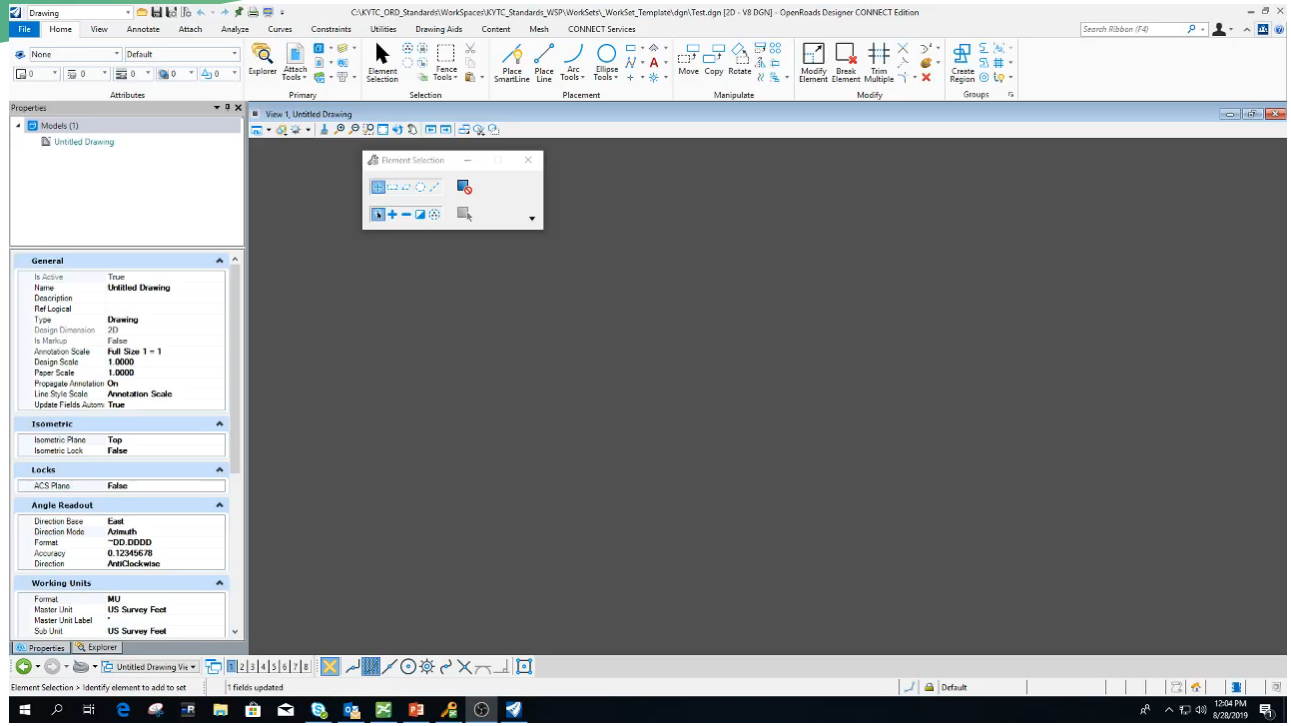
Updates to CADD Std.

- MicroStation Table



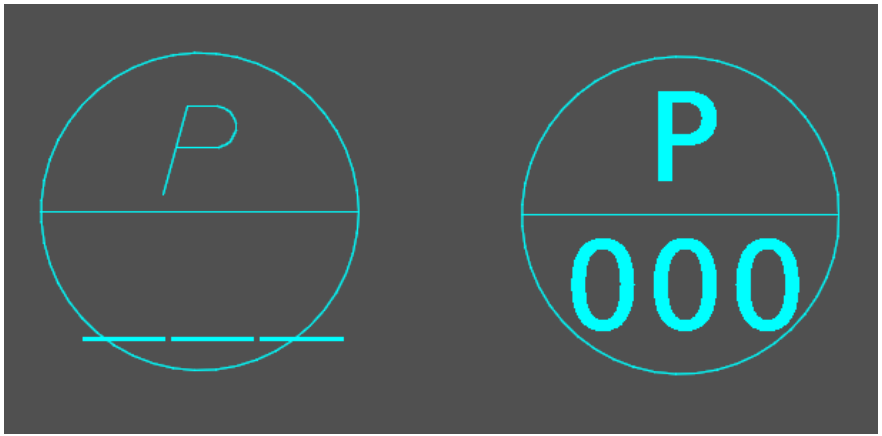
Updates to CADD Std.

- Text Favorites



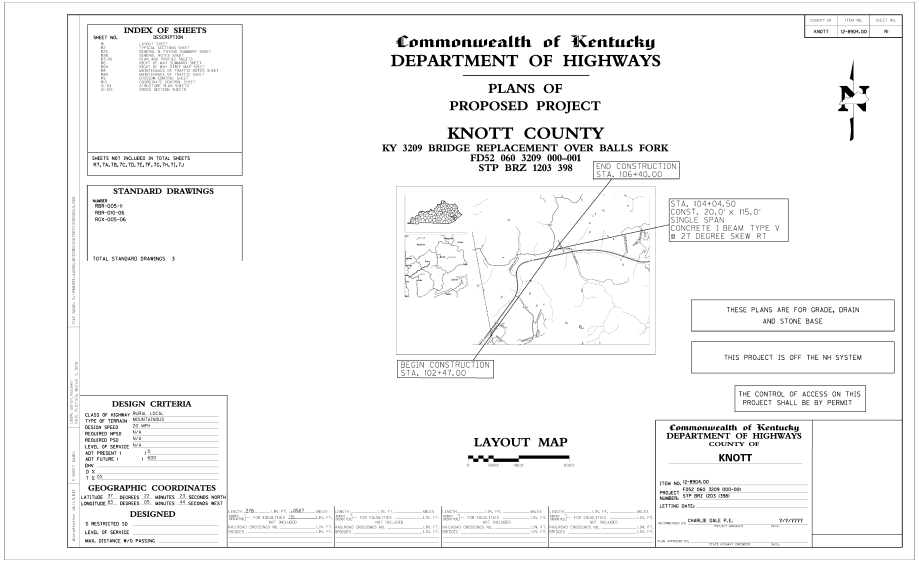
Updates to CADD Std.

- Truetype Fonts
- Font Placeholder

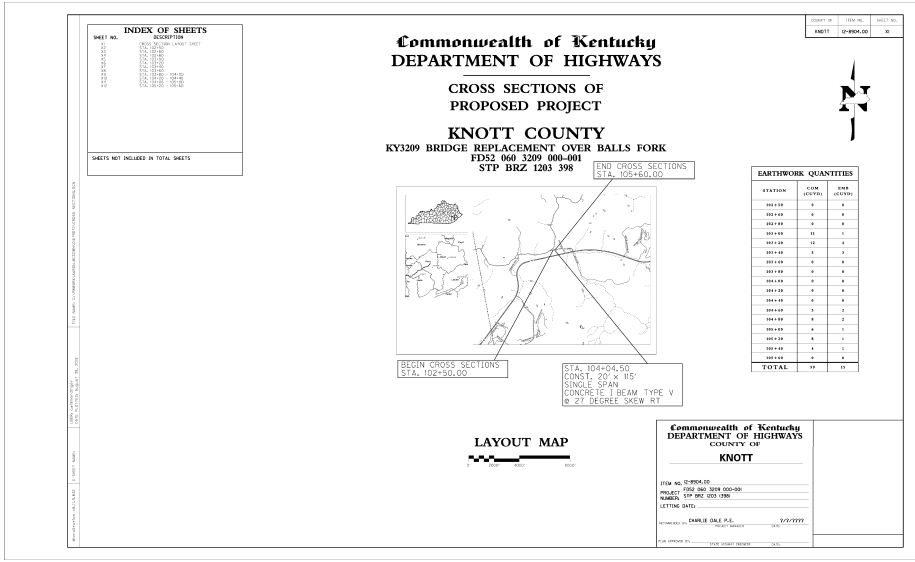


Updates to CADD Std.

Layout Sheet

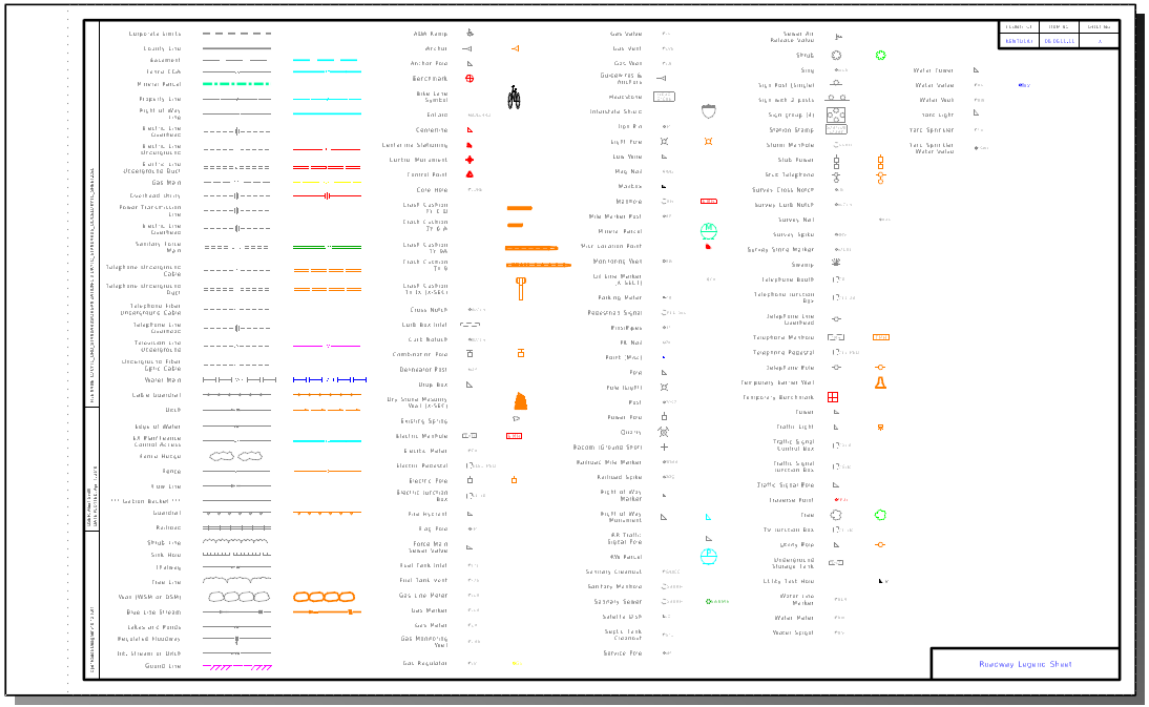


Cross Section Layout Sheet



Updates to CADD Std.

- Legend Sheet



Electronic Deliverables

File Federation/Separation and References

- OpenRoads Designer stores all civil data in the .DGN file
  - Everything is a .DGN
  - *Survey, terrains, geometry, superelevation, corridors, etc.*
- OpenRoads Designer is designed to work with reference files
- Important to establish how you are going to work with each .DGN
  - Federate/Separate your project files
  - Establish logical folder structure and file naming

Electronic Deliverables

File Federation/Separation and References

- Topo / Survey
- Terrain
- Geometry
- Corridors
- Superelevation
- Utilities
- Cross Sections
- Plan-Profile Sheets
- Drainage
- Bridges
- Geotech
- Control Features
- Proposed Terrains
- Etc.

SEPARATE YOUR FILES

Electronic Deliverables

Why?

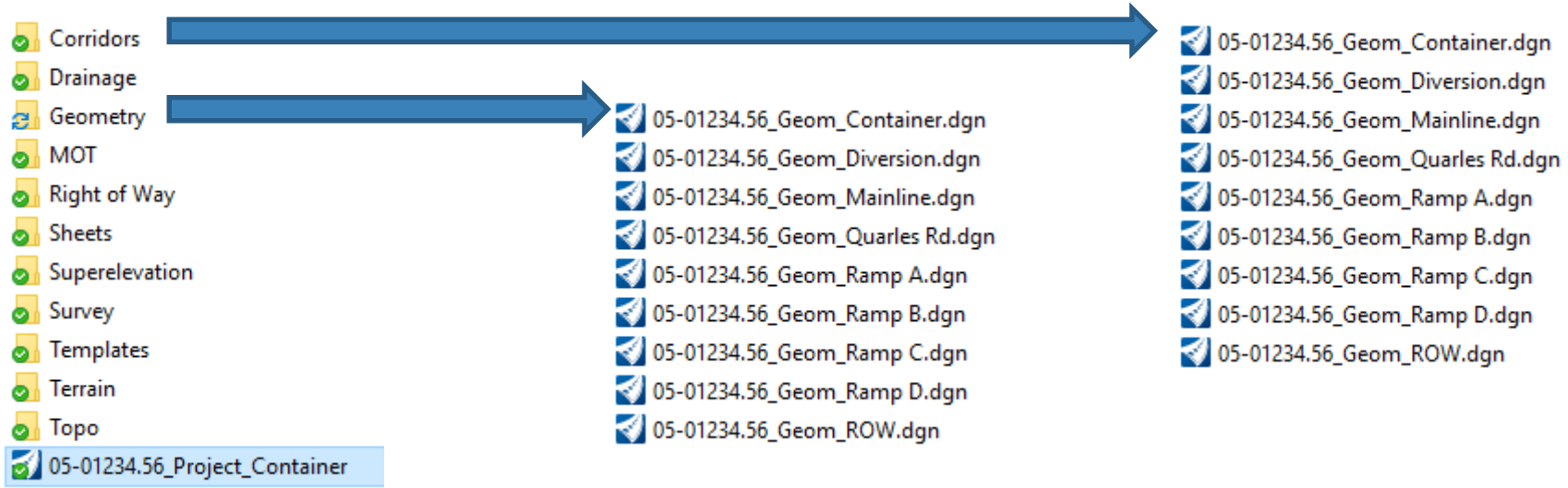
- Smaller files are inherently faster and more efficient.
- Easier to manage and recall where things are.
- Multi-user access to files.
- More control later when you need to compile them for different scenarios (*i.e. alternative designs, create composite models, etc.*)

Electronic Deliverables

- How should we separate alignments, corridors and superelevations?
  - Each alignment should have its own file.
  - Superelevation Sections should have their own file.
  - Each corridor should have its own file.

Electronic Deliverables

- KYTC established logical folder structure and file naming



Electronic Deliverables

Geometry

- 05-01234.56_Geom_Container.dgn
- 05-01234.56_Geom_Diversion.dgn
- 05-01234.56_Geom_Mainline.dgn
- 05-01234.56_Geom_Quarles Rd.dgn
- 05-01234.56_Geom_Ramp A.dgn
- 05-01234.56_Geom_Ramp B.dgn
- 05-01234.56_Geom_Ramp C.dgn
- 05-01234.56_Geom_Ramp D.dgn
- 05-01234.56_Geom_ROW.dgn

Superelevation

- 05-01234.56_Super_Container.dgn
- 05-01234.56_Super_Diversion.dgn
- 05-01234.56_Super_Mainline.dgn
- 05-01234.56_Super_Quarles Rd.dgn
- 05-01234.56_Super_Ramp A.dgn
- 05-01234.56_Super_Ramp B.dgn
- 05-01234.56_Super_Ramp C.dgn
- 05-01234.56_Super_Ramp D.dgn

Corridors

- 05-01234.56_Corr_Container.dgn
- 05-01234.56_Corr_Diversion.dgn
- 05-01234.56_Corr_Mainline.dgn
- 05-01234.56_Corr_Quarles Rd.dgn
- 05-01234.56_Corr_Ramp A.dgn
- 05-01234.56_Corr_Ramp B.dgn
- 05-01234.56_Corr_Ramp C.dgn
- 05-01234.56_Corr_Ramp D.dgn

Container File

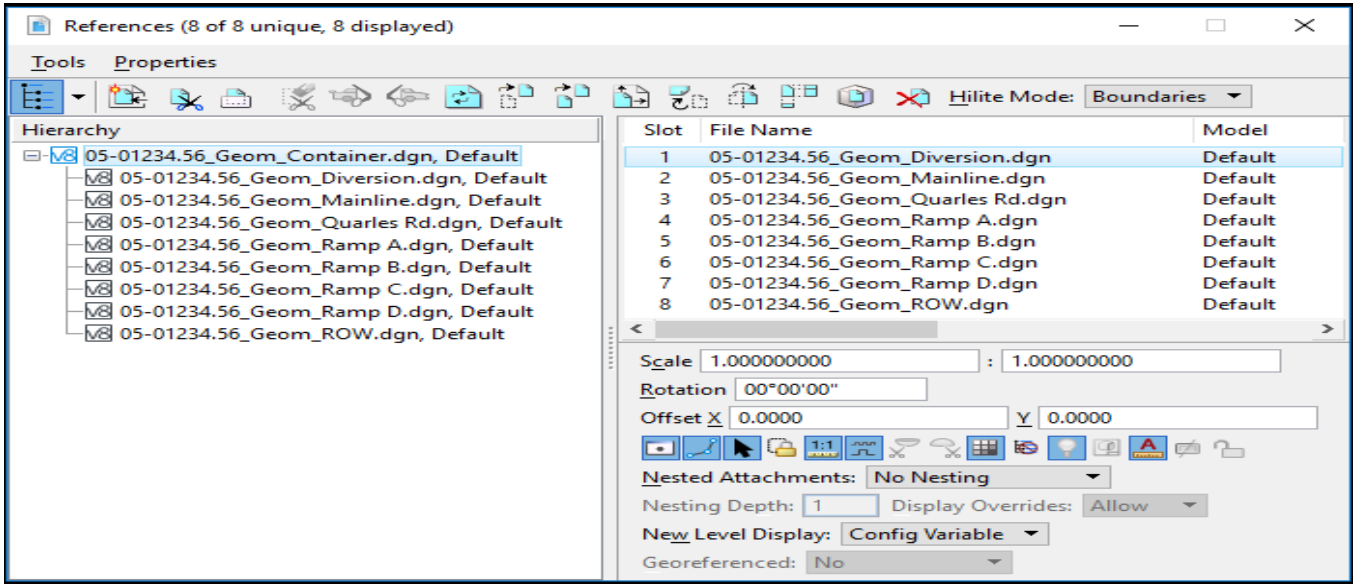
- A Container file functions as the “Master” file for geometry, corridors, proposed terrain, etc.
- A blank file with individual file attached as references.

  - Create a container file for ALL Geometry.
  - Create a container file for ALL Corridors.
  - Create a container file for ALL Superelevation.

Geometry Container

(Use this master file when you want all Geometry)

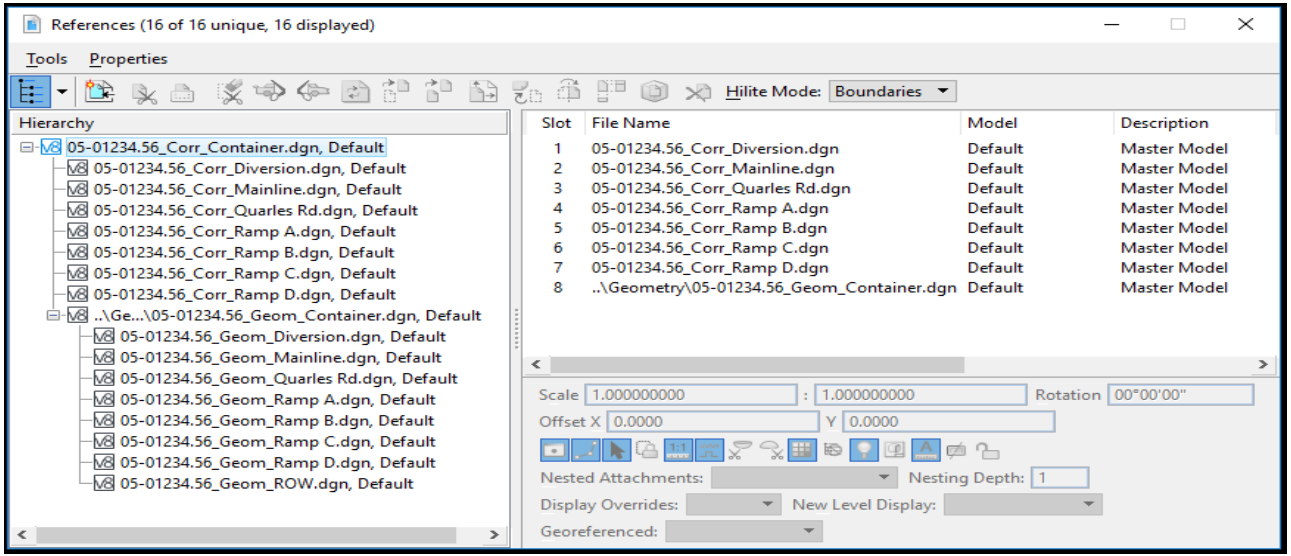
- Create 2D blank master file
- Reference each individual geometry dgn



Corridor Container

(Use this master file when you want all Corridors)

- Create 2D blank master file
- Reference each individual corridor dgn
- Reference master geometry container (Live Nesting = 1)



Project Container File

- A blank file with individual file attached as references.
- Contains ALL container files (Geometry, Corridors, Superelevation, etc.
- Use as the master model for plan sheets, cross section, design checks and conflict analysis.

Project Container File

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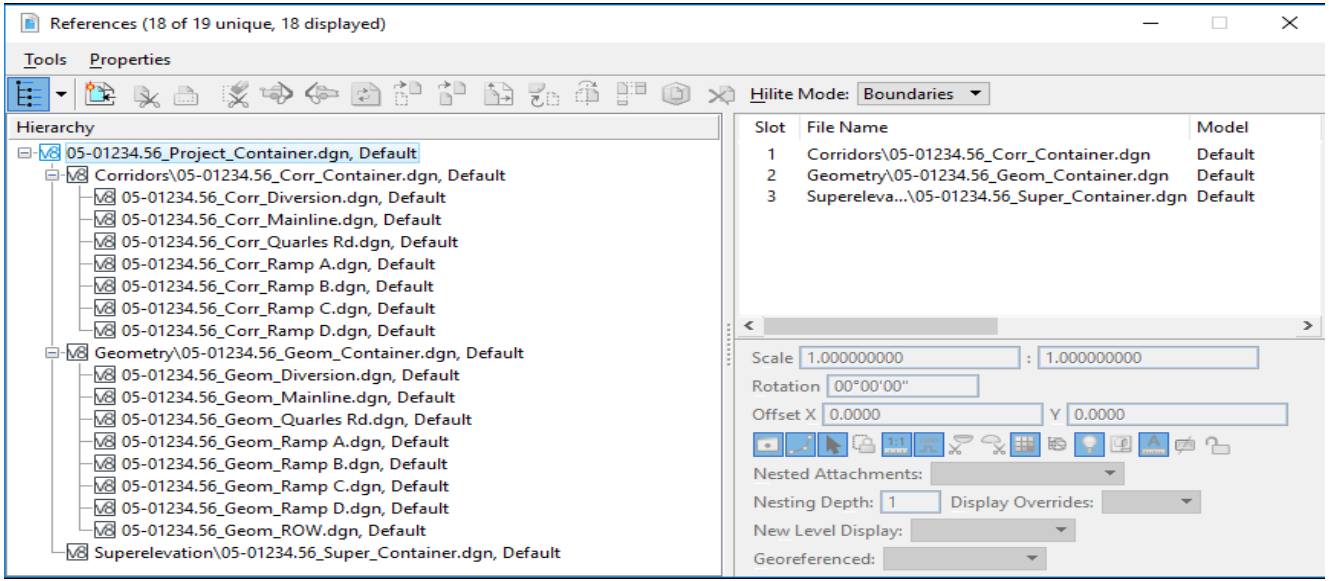

ORD Training

Updates to CADD Std.

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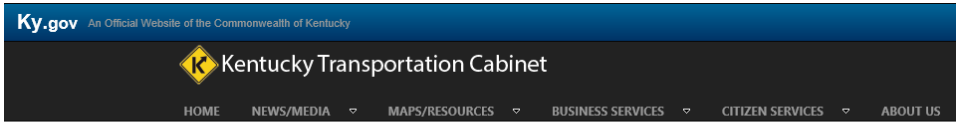

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Questions