Single PID Projects with Multiple Locations

Purpose

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The purpose of this document is to outline a best practice workflow for projects that have a single PID with multiple locations using both State Plane Coordinates and a custom coordinate system/multiple State Plane Zones.

Single PID with Multiple Locations

When working with a single PID with multiple locations, naming convention and document comments will be useful tools to distinguish the different sites. The following sections outline a basic workflow for projects that are on a single coordinate system or multiple (Example: custom ground or different State Plane Zones) with the later needing some additional steps outlined in the <u>Single PID with Multiple</u> <u>Locations (Multiple Coordinate Systems)</u> section.

Naming Convention

It is recommended to use a different "100" series for each location to distinguish the different locations.

Example: PID 110452 has 4 different locations (CLE-125-5.09, HAM-27-12.97, HAM-27-7.11 and BUT-4-7.07). To create geometry files (BK) for these locations the files would be named:

- 110452BK101.dgn (CLE-125-5.09)
 - $\circ \quad 110452BK102.dgn$
 - o 110452BK103.dgn
 - o 110452BK104.dgn
 - o ...(etc.)
- 110452BK201.dgn (HAM-27-12.97)
- 110452BK301.dgn (HAM-27-7.11)
- 110452BK401.dgn (BUT-4-7.07)

Document Comments

It is strongly recommended to use comments on design files to distinguish the numerical coded names. Please see the OHDOT CADD Standards Manual for an outline on Comments (Section 304.4). The following describes the process for assigning comments during file creation and after file creation.

Entering Comments and Creating Files Simultaneously

When inside OpenRoads Designer (ORD) the create design files application can be found under the Ohio DOT Workflow \rightarrow Files Group.



Once launched select the files that need to be created. In this example Geometry Files (BK) will be generated using the naming outlined in the Naming Convention example.

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							400-Engineering\	Roadway\Basemaps\	110452_BK	103	Ramp B Centerline (CLE-125-5.09)	1:20	110452_DesignSeed2d.d
							400-Engineering\	Roadway\Basemaps\	110452_BK	104	Ramp C Centerline (CLE-125-5.09)	1:20	110452_DesignSeed2d.d
							400-Engineering\	Roadway\Basemaps\	110452_BK	201	SR27 Centerline (HAM-27-12.97)	1:20	110452_DesignSeed2d.d
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F		Roadway	Basemap	Aerial Mapping	BA	0	400-Engineering\	Roadway\Basemaps\	110452_BA			1:20	110452_DesignSeed3d.c
t		Roadway	Basemap	Aerial and Ground Combined	BC	0	400-Engineering\	Roadway\Basemaps\	110452_BC			1:20	110452_DesignSeed3d.c
t		Roadway	Basemap	Roadway	BP	0	400-Engineering\	Roadway\Basemaps\	110452_BP			1:20	110452_DesignSeed2d.c

*Please note that multiple files can be created at the same time even if they are in a different series number (by switching the File Suffix to the appropriate level). During the process of file creation, the Federated Basemap File will also be created for each level (Example, 110452_BK100.dgn will be created for the 100 series files (and attaches the references) and 110452_BK200.dgn will be created for the 200 series).

Once the files are created the comments can be viewed inside of ProjectWise or Windows Explorer.

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ProjectWise Explorer					- 🗆 ×
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Ohio DOT Archive	Name	Description	Title	Comments	e Name
🛃 Ohio DOT Projects (kyle.ince@dot.ohio.gov)	110453 BK100 day	Civil Commenter: Bossesson Collectors File		OH82/2011 SE	0452 RK100 data
🖃 💯 Documents	2 110452_BK100.dgn	Civil Geometry Basemap Collector File	V2019-03-09	CP105/2011-3F	0452_BK100.dgn
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District 01	/ 110452_BK103.dgn	Civil Geometry Basemap Ramp B Centerline (CLE-125-5.09)	Civil Geometry Basemap	Ramp B Centerline (CLE-125-5.09)	0452_BK103.dgn
in- 💯 District 02	110452_BK104.dgn	Civil Geometry Basemap Ramp C Centerline (CLE-125-5.09)	Civil Geometry Basemap	Ramp C Centerline (CLE-125-5.09)	0452_BK104.dgn
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iii 💯 District 04	/// 110452_BK201.dgn	Civil Geometry Basemap SR27 Centerline (HAM-27-12.97)	Civil Geometry Basemap	SR27 Centerline (HAM-27-12.97)	0452_BK201.dgn
in 💯 District 05					
iii 💯 District 06	<				
District 07	Work Area Properties Folder Properties Pe	rsonal Portal Dependency Viewer Access Control			
E-100 District 08	Properties (Work Area Type - Ohio I	DOT Projects)			
<u>⊜</u> - <u></u> <u></u> <u></u> _D08	PID	110452			
· · · · · · · · · · · · · · · · · · ·	County	District 8			
⊞ 💇 000-Admin	Work Category	Traffic Co	introl (Safety)		
III 100-Planning	Project Description	Upgrade	traffic signals at the intersections of Cl	LE-125 & Amelia-Olive Branch Road, HAM-27 &	Round Top Road, HAM
200-Environmental	Project Engineer				
	Estimated Begin Construction	10/01/20	122		
e 🖉 400-Engineering	Estimated End Construction	10/27/20	023		
	File Date	04/01/20	122		
	Award Date	07/01/20	122		
Earlie Landscaping	 Sale Date 	07/01/20	122		
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Entering Comments to Existing Files

To edit or add a comment to an existing file open the file in ORD.

Once the file is open, click on File to open the backstage.

Inside the backstage select Properties. This will open the file properties in the Properties Explorer window (by default it is docked on the far most left pane of the window).

Under the Extended group (it may need to be expanded using the dropdown arrow) are the Comments and Title fields. Once the file is saved or the server copy is updated (ProjectWise only) the attributes will be added to the appropriate fields.

Author	Chuck.Lawson
Company	Bentley Exton Office
Manager	
Client	de la companya de la comp
Title	Civil Geometry Basemap
Subject	
Comments	SR125 Centerline (CLE-125-5.09)
Keywords	

Single PID with Multiple Locations (Multiple Coordinate Systems)

In addition to naming conventions and comments, WorkSets that have multiple coordinate systems need multiple seed files to generate the design files properly using the Create Design Files application. Each WorkSet when created using the Project Creation application generates 4 seed files by default.

*Note: The seed files are found inside the folder (PID# \rightarrow 990WorkSetStandards \rightarrow Seed).



*Note: The following example will be completed using ODOT's ProjectWise implementation. These steps are equally applicable for outside of ProjectWise.

Creating Multiple Seed Files

To create multiple seed files, open the PID# \rightarrow 990WorkSetStandards \rightarrow Seed folder to view the seed design files.

Once the folder is open, select the design files (in the current release of ORD only the 2d and 3d files are required to have coordinate systems (the drawing and sheet seeds are not georeferenced)) that need to be copied.

Right Click on the selected files and select the copy command.



After they have been copied, paste inside the same folder (PID \rightarrow 990-WorkSetStandards \rightarrow Seed). This is done by right clicking inside that folder and selecting the Paste... option.



Once the paste option is selected a dialog box will appear Select Yes.





After selecting "Yes" the Select a Wizard window will appear.

Document Creation Wizards		OK Cancel
Advanced Wizard		

Double click the "No Wizard" option. In the Select an Action dialog Select the "Create a new document" toggle. Make sure you check the "Apply this choice for all succeeding items". This will allow all the documents that are being created to be done at the same time.

Select an Action	×
Select	
The name of the pasted document ('106471_DesignSeed2d.dgn') is not unique in the target folder.	
Select one of the following actions	- 11
Create a new document	
O Create a new version of existing document	
◯ Skip this item	
Apply this choice for all succeeding items	
Define and apply common rules	
OK Cancel	

Select OK to continue.

The Create a Document dialog box will appear.

🔀 Create a Document		×
Name File Name		
Rules for document file name		
◯ Add a prefix		
Add a suffix		
O Change the name		
Format:		
Sample:		
file.ext		
	OK Cancel	
	Cancel	

When creating a new document, changes will need to be done both in the "Name" and "File Name" tabs.

Select the "Add a prefix" inside of the "Name" tab. This will be the standard when creating new documents. The prefix will be a "100" series number followed by a "_". If multiple copies must be created then the next one would be "200_", "300_", etc.

🎽 Create a Document		×
Name File Name		
Rules for document name		
Add a prefix		
○ Change the name		
Format:		
100_		
sample:		
100_doc		
1		
Copy source document attributes		
Hide Preview ±	OK	Cancel
xpected Documents:	1	
Name	File Name	Folder Name
/ 📄 100_106471_DesignSeed2d.dgn	106471_DesignSeed2d.d	Seed
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Complete the File Name tab the same as the Name tab.

🔀 Create a Document		×
Name File Name		
Rules for document file name		
Add a prefix		
◯ Add a suffix		
O Change the name		
Format:		
100_		
Sample:		
100_file.ext		
Copy source document attributes Hide Preview ± Expected Documents:	ОК	Cancel
Name	File Name	Folder Name
100_106471_DesignSeed2d.dgn	100_106471_DesignSeed	Seed
<		>

Once the "Name" and "File Name" tabs have both been filled out Select "OK". This will create a copy of the documents that were selected with the appropriate naming convention.

Once the files have been created, it is recommended that a description be assigned for each file. This can be done by right clicking one of the files that was just created and selecting properties (Keyboard Shortcut: Press the space bar when the file is selected).

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2 100_OHDOT_	SheetSeed2	Open	OHDO
/ 106471_Desig	nSeed2d.dg	Open as Read-Only	106471
/ VIII 1064/1_Desig	inSeed3d.dg	Open With	0400
OHDOT_Shee	tSeed2d.dgi	Markup	OHDO
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		Check In	
		Free	
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		Export	
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		Create Renditions	
		Export Dependency Map(s)	
Document Properties	Project Prop	Import Dependency Map(s)	Preview
View: <default></default>		Update Server Copy	
	Property n	Refresh Local Copy	Pro
	Name	Purge Local Copy	100
	Folder Nar	Purge WorkSpace	See
	Environme	Cut	
	File Name	Сору	100
	Created By	Paste	Kol
	Updated B	Сору То	Kol
	File Update	Move To	Kol
	Status	Rename	Che
	Version File Pewisic	Delete	
	Local File F	Modify	
	Local File (Modify Spatial Attributes	
	Shareable	Add Comment	
		Set >	
		Send To >	
		Copy List To >	
		Attributes >	
		Change State >	
		Batch Print >	
	·	Properties 😞	

In the Properties dialog, under the "General" tab type in a description. This description should be something that allows the location to be easily identified. (Example: CLE-125-5.09)

WorkSpa	ce		Compo	nents		S	patial	
General Se	curity At	tributes	More	Attributes	File	Properties	Audit	Trail
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Description:	New Locati	on XXX						
Version:				Workflov	V:	Ohio DOT Pro	oject Standa	ards
Sequence:	0			State:		Work in Prog	ress	
Application:	OpenRoads	s Designer	\sim	Departme	ent:	<none></none>		\sim
Status:	Checked In			Node:				
Out to:				On:				
Created By:	Kolton Wilso	n		On:	6/20/2	2019 2:15:01	PM	
Updated By:	Kolton Wilso	n		On:	6/20/2	2019 2:15:01	PM	
File								
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File Size:	52.50 KB			Storage:		Storage		
File Updated By:	Kolton Wilso	n		On:	6/20/2	2019 2:15:01	PM	
Folder								
Name:	01 Active Pr	ojects\Distri	ct 06_D0	6\KWilson\S	Survey_T	raining		
Description:								
Environment Name:								
Description:								

After a description has been entered, click the save button.

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		View	DGN	~						
uments\01 Active Projects\	District 06_D06\KWilson\Sun 🗸 🕨 Go									
🔚 List 🥥 Spatial										
Name			Description	F						
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// 100_106471_De	signSeed3d.dgn		New Location XXX	1						
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// OHDOT_Sheet	Seed2d.dgn		OHDOT_SheetSeed2d							

Repeat these steps for each location.

Once the files are created the original seed files must be deleted. To do this select the PID_DesignSeed2d, PID_DesignSeed3d, OHDOT_DrawingSeed2d, and OHDOT_DrawingSeed2d files from ProjectWise. With all the files selected, right click and delete the files (or use the Delete key on the keyboard). (This step will force the user to select the correct seed when using the create design files application and not default to the original seed).

Lastly, open the seed files using OpenRoads Designer and select the corresponding coordinate system for each "100" series seed files. This process is outlined inside the ORD Survey training guides (Section 200).