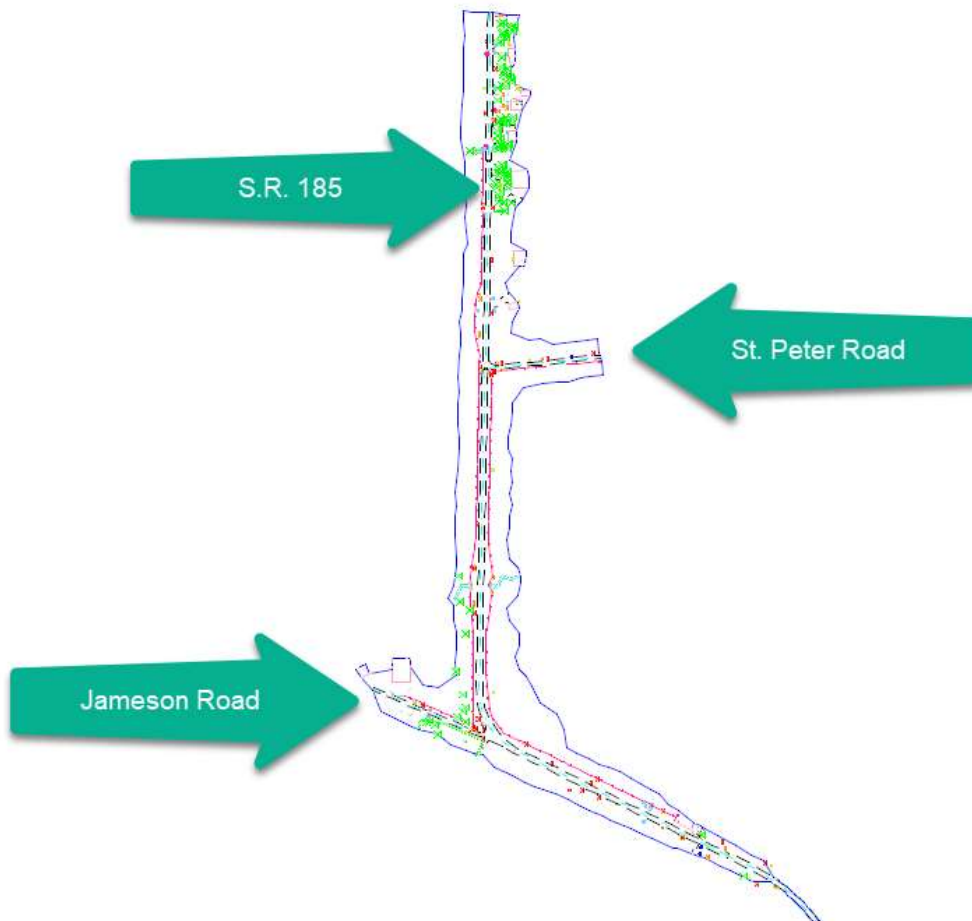# OpenRoads Designer: Geometry Basemaps Exercise

Geometry Exercises

The sample project uses three alignments as listed below. Each alignment will be contained in its own design file.

Exercise A – Geometry Basemaps

For the sample project, the Survey personnel have created a design file containing the existing survey information:

File Name	Content
300-Survey\Basemaps\123456_FB001.dgn	Survey mapping and the existing ground terrain

In this exercise we will create multiple design files to house the proposed geometry for the project.
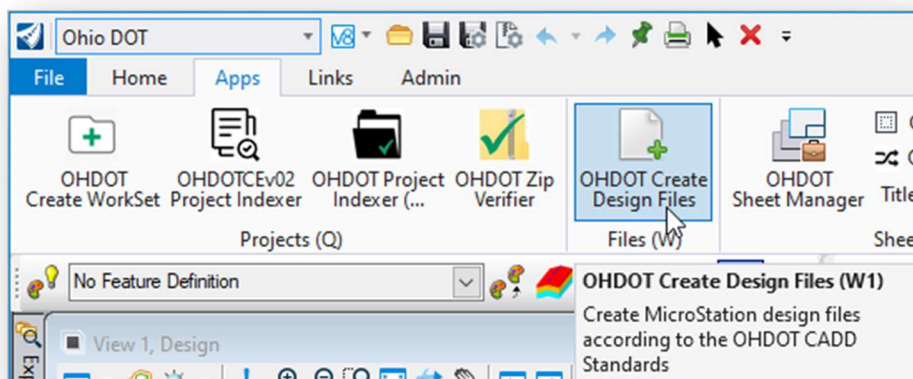
- ✓ Open **ProjectWise Explorer**

- ✓ Browse to the folder containing the training data. The folder location will be provided by the instructor for each class.
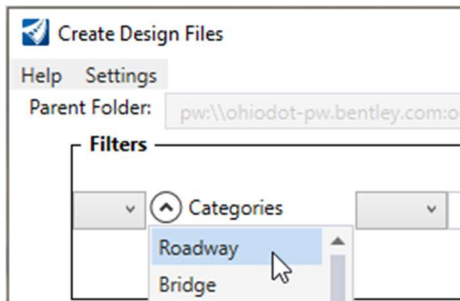- ✓ Browse to the **400-Engineering\Roadway\Basemaps** folder.

Create new design files for the project using the **OHDOT Create Design Files** application. To create these files, one of the existing BK files may be opened. If there are not any basemap deign files defined for the existing geometry one of the seed files can be opened.

- ✓ Browse to the **990-WorkSetStandards\Seed** folder.
- ✓ Open the **123456_DesignSeed2d.dgn** file from the **990-WorkSetStandards\Seed** folder.
- ✓ Select the **Ohio DOT** Workflow
- ✓ Select the **OHDOT Create Design Files** application

✓ Click on the Categories drop down within the Filters and select Roadway Category.

✓ Check the box for Roadway Basemap Geometry BK

Create	Category	Type	Description	Code	# of Files	Base Folder	Folder	File Name	File Suffix	Comments	Scale	Seed
☐	Roadway	Basemap	3D Modeling	KM	0	400-Engineering\	Roadway\Basemaps\	123456_KM			1:20	123456_DesignSeed2d.dgn
☐	Roadway	Basemap	Digital Terrain Model	KD	0	400-Engineering\	Roadway\Basemaps\	123456_KD			1:20	123456_DesignSeed3d.dgn
☐	Roadway	Basemap	Environmental	BV	0	400-Engineering\	Roadway\Basemaps\	123456_BV			1:20	123456_DesignSeed2d.dgn
☑	Roadway	Basemap	Geometry	BK	3	400-Engineering\	Roadway\Basemaps\	123456_BK	001		1:20	123456_DesignSeed2d.dgn
						400-Engineering\	Roadway\Basemaps\	123456_BK	002		1:20	123456_DesignSeed2d.dgn
						400-Engineering\	Roadway\Basemaps\	123456_BK	003		1:20	123456_DesignSeed2d.dgn

✓ Create three new geometry basemaps for the project as follows:

File Name	Comments
123456_BK001.dgn	Proposed S.R. 185
123456_BK002.dgn	Proposed St. Peter Road
123456_BK003.dgn	Proposed Jameson Road

✓ Exit OpenRoads Designer (ORD), checking the file back in to ProjectWise. This completes this exercise.

OpenRoads Software Version

This document was prepared using the following software version:

OpenRoads Designer CONNECT Edition – 2021 Release 1 Update 10 – Version 10.10.01.03

This document was updated using the following software version:

OpenRoads Designer CONNECT Edition – 2022 Release 3 Update 12 – Version 10.12.02.04

Contacts

For any questions, suggestions, or problems with this document please contact the ODOT Office of CADD and Mapping Services by use of the following form on the ODOT website:

https://odot.formstack.com/forms/cadd_servicerequest