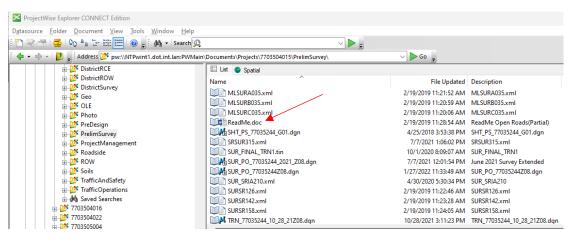
# Typical Referenced Files Used for Bridge Bureau OBM & ORD Projects

For Iowa DOT Bridge Bureau projects using OpenBridge Designer /OpenBridge Modeler (OBD/OBM) or OpenRoads Designer (ORD), the following information is to explain the basic files that are referenced. The main files needed to create a bridge or culvert model are the roadway alignment (GEO) and the existing (TRN\_EX) and proposed terrains (TRN). This document shows where to locate these files in ProjectWise. These files are to be used as references and not copied as live/active elements into the OBD/OBM or ORD files.

## EXISTING TERRAIN

To find the Existing Terrain file, it could be in three different locations depending on who generated this information. Because of the three possible ways the existing ground can be surveyed, there are three locations as described below to locate the **TRN\_EX** file. **The file should only reside in one of the locations, not more than one.** 



Refer to the ReadMe.doc file located under the PrelimSurvey folder for project survey information.

1. **Photo** folder - When the existing ground is processed by both photogrammetry and prelim survey, the TRN\_EX file will reside in the Photo folder.

2. **PrelimSurvey** folder - If the existing ground is processed by a full field survey without photogrammetry, the TRN\_EX file will reside in the PrelimSurvey folder.

3. **DistrictSurvey** folder - If the survey was completed exclusively by a district survey section, the TRN\_EX file will reside in the DistrictSurvey folder.

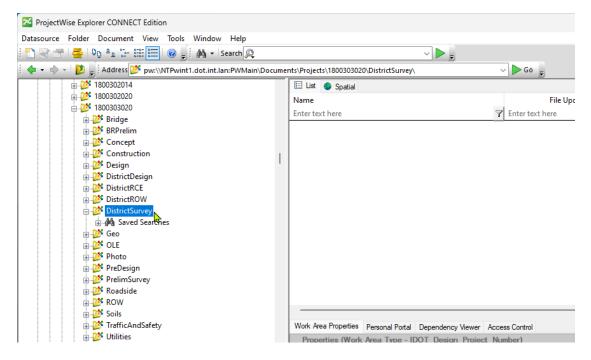
The image below is an example showing the 1st location an Existing Terrain file may be found, the **Photo** Folder. <u>The file should not be referenced from Subfolders</u>. The information in the Subfolders may not be ready for consumption/utilization. To avoid using data that might not be correct, always reference data from the **Photo** folder only, <u>not subfolders</u>.

| ource Folder Document View Tools Window Help                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
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| ) 😪 🐨 🚑 📭 Au 😳 🔠 🧱 🥥 ji 🎪 - Search 🗸 V 🕨 ji<br>Þ - 🗄 - D ji Address 💯 pxx:\NTPwint1.doLint.lan:PVMain/Documents/Projects/1800303020/Photo/ V Do ji                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                                                                                                                                                                                                                                                                                                                     | File Updated Description                             |  |  |
| B 25 1800302020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Enter text here                                                                                                                                                                                                                                                                                                          | Enter text here Enter text here                      |  |  |
| 😑 🍱 1800303020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 839.1                                                                                                                                                                                                                                                                                                                    |                                                      |  |  |
| 😑 🍱 Bridge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
| Bridge Replacement-PPCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | / email                                                                                                                                                                                                                                                                                                                  |                                                      |  |  |
| Bridge New-CCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ProjectResources                                                                                                                                                                                                                                                                                                         |                                                      |  |  |
| 👜 🍱 BRPrelim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18003078_PC.dgn                                                                                                                                                                                                                                                                                                          | 10/20/2021 12:14:34 PM 18003078_PC                   |  |  |
| Design Events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 18003078_PC.pdf                                                                                                                                                                                                                                                                                                          | 10/20/2021 12:14:25 PM 18003078_PC                   |  |  |
| ProjectResources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cherokee NHSX-003-2(78)3H-18.kmz                                                                                                                                                                                                                                                                                         | 9/22/2021 1:37:33 PM Cherokee NHSX-003-2(78)3H-18    |  |  |
| 🗊 🚧 Saved Searches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ISSDTesting.dgn                                                                                                                                                                                                                                                                                                          | 5/10/2022 2:35:53 PM ISSDTesting.dgn                 |  |  |
| ⊕-25 BRPrelim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 📜 🛒 Junk.dgn                                                                                                                                                                                                                                                                                                             | 4/29/2022 5:36:52 PM Junk.dgn                        |  |  |
| 🖶 🍱 Concept                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PHO_18003078Z04.dgn                                                                                                                                                                                                                                                                                                      | 4/15/2022 11:55:13 AM PHO_18003078Z04                |  |  |
| B-10 Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MAS_18003078Z04_2D.dgn                                                                                                                                                                                                                                                                                                   | 2/17/2022 6:51:00 AM RAS_18003078Z04_2D.dgn          |  |  |
| 😠 💯 Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Survey Limits_18003078.dgn                                                                                                                                                                                                                                                                                               | 2/15/2022 1:29:46 PM Survey Limits_18003078          |  |  |
| DistrictDesign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TRN 18003078_LiDAR.dgn                                                                                                                                                                                                                                                                                                   | 1/21/2022 9:43:26 AM TRN_18003078_LiDAR.dgn          |  |  |
| DistrictRCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TRN EX 18003078Z04.dgn                                                                                                                                                                                                                                                                                                   | 4/15/2022 12:44:56 PM TRN EX 18003078Z04.dgn         |  |  |
| B-10 DistrictROW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                          | ···· <b>·</b> ···· <b>··························</b> |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
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| 😠 🍱 Geo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
| 🖟 💯 OLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
| ⊕- <mark>0</mark> 2 OLE<br>⊖-02 Photo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Work Area Properties Personal Portal Dependency Viewer Acce                                                                                                                                                                                                                                                              | ss Control                                           |  |  |
| ● 25 OLE<br>● 25 Photo<br>● 27 839.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Work Area Properties Personal Potal Dependency Vewer Acce<br>Properties (Work Area Type - IDOT_Design_Project_Nur                                                                                                                                                                                                        |                                                      |  |  |
| ⊕ 0LE<br>⊕ 05 Photo<br>⊕ 07 839.1<br>- 07 email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                          |                                                      |  |  |
| OLE OLE OLE OLE ON Solution D ON Solution D ON | Properties (Work Area Type - IDOT_Design_Project_Nur                                                                                                                                                                                                                                                                     |                                                      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Nur<br>DSN_IA_PROJ_ID                                                                                                                                                                                                                                                   |                                                      |  |  |
| ⊕ <mark>2000 OLE</mark><br>⊕ 2000 Photo<br>⊕ 2000 Photo<br>⊕ 2000 PhotoResources<br>⊕ 2000 PhotoResources<br>⊕ 2000 PhotoResources<br>⊕ 2000 PhotoResources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Properties (Work Area Type - IDOT_Design_Project_Nur<br>DSN_IA_PROJ_ID<br>DSN_PIN_NUM                                                                                                                                                                                                                                    |                                                      |  |  |
| ⊕                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Properties (Work Area Type - IDOT_Design_Project_Nur<br>DSN_IA_PROJ_ID<br>DSN_PIN_NUM<br>DSN_PROJ_NUM                                                                                                                                                                                                                    | mber)                                                |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Nur<br>DSN_IA_PROJ_D<br>DSN_PIN_NUM<br>DSN_PROJ_NUM<br>IA_GROUP                                                                                                                                                                                                         | mber)                                                |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Num<br>DSN_PRO_JD<br>DSN_PRO_JNM<br>DSN_PRO_NMM<br>IA_GROUP<br>DSN_DISTRICT_NUMBER<br>DSN_COUNTY_NOT<br>DSN_COUNTY_NAME                                                                                                                                                 | mber)                                                |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Num<br>DSN_IA_PROJ_D<br>DSN_PROJ_NUM<br>IA_GROUP<br>DSN_DISTRICT_NUMBER<br>DSN_COUNTY_NON<br>DSN_COUNTY_NAME<br>DSN_SYSTEM_ROUTE                                                                                                                                        | mber)                                                |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Num<br>DSN_IA_PROJ_D<br>DSN_PROJ_D<br>DSN_PROJ_NUM<br>IA_GROUP<br>DSN_DISTRICT_NUMBER<br>DSN_COUNTY_NOT<br>DSN_COUNTY_NAME<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYTEJOF_DANS                                                                                  | mber)                                                |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Num<br>DSN_IA_PROJ_D<br>DSN_PROJ_NUM<br>IA_GROUP<br>DSN_DISTRICT_NUMBER<br>DSN_COUNTY_NON<br>DSN_COUNTY_NAME<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_STATUS<br>DSN_TPE_OF_PLANS<br>DSN_PROJECT_LOCATION                                                          | mber)                                                |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Properties (Work Area Type - IDOT_Design_Project_Num<br>DSN_JRA_PROJ_D<br>DSN_PROJ_D<br>DSN_PROJ_NMM<br>IA_GROUP<br>DSN_DISTRICT_NUMBER<br>DSN_COUNTY_NOT<br>DSN_COUNTY_NAME<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE<br>DSN_SYSTEM_ROUTE | mber)                                                |  |  |
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The image below is an example showing the 2nd location an Existing Terrain file may be found, the **PrelimSurvey** Folder. <u>The file should not be referenced from Subfolders</u>. The information in the Subfolders may not be ready for consumption/utilization. To avoid using data that might not be correct, always reference data from the **PrelimSurvey** folder only, <u>not subfolders</u>.

| ProjectWise Explorer CONNECT Edition                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|
| atasource Folder Document View Tools Window Help        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
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| ⊟-25 1800303020<br>⊕-25 Bridge                          | Enter text here                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Y     Enter text here     Y     Enter text here                                              |  |
| BRPrelim<br>BRPrelim<br>Concept                         | ✓ Image: With the second s |                                                                                              |  |
| ⊕-2 <sup>25</sup> Construction ⊕-2 <sup>25</sup> Design | Control Points.txt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11/9/2021 8:01:27 AM Control Points.txt<br>11/9/2021 8:01:19 AM GEO PS 18003078Z04.dgn       |  |
| DistrictDesign DistrictRCE                              | ∭                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11/9/2021 8:01:25 AM SHT_PS_18003078Z04.dgn<br>11/9/2021 8:08:18 AM SUR_PO_PS_1803078Z04.dgn |  |
| DistrictROW                                             | SURML3.xml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11/9/2021 8:01:21 AM SURML3                                                                  |  |
| 🖬 💯 DistrictSurvey<br>🖬 🌌 Geo                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
| DLE<br>Def Photo                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
| PreDesign PrelimSurvey                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
| ⊕-                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |
| 😥 🍱 Roadside                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |  |

The image below is an example showing the 3rd location an Existing Terrain file may be found, the **DistrictSurvey** Folder. <u>The file should not be referenced from Subfolders</u>. The information in the Subfolders may not be ready for consumption/utilization. To avoid using data that might not be correct, always reference data from the **DistrictSurvey** folder only, <u>not subfolders</u>.



The following is to show the possible locations of files providing the Proposed Terrain, Geometry and Corridor. The files may be in various locations and communication is necessary to confirm the actual location on a project-by-project basis.

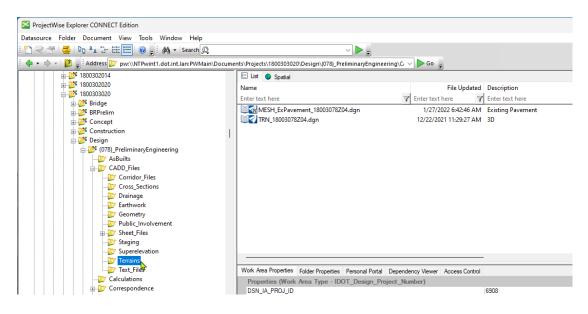
#### **PROPOSED TERRAIN**

The Proposed Terrain can be in two different locations depending on who is responsible for the Road Design work (Design Bureau or District Design).

Proposed Roadway Terrain will be provided by the Roadway Designer. Proposed Berm Modeling will be provided by the Prelim Bridge Designer.

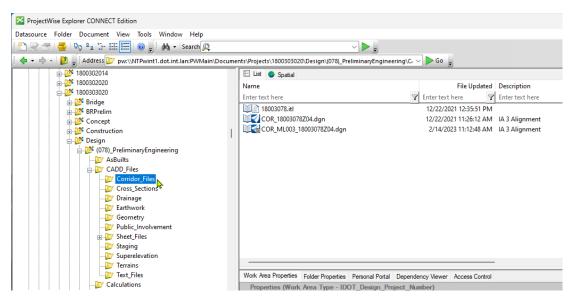
The Proposed Terrain (the clipped terrain for proposed contours) will be generated by whomever creates the proposed corridor modeling. The Structural Designer shall work in collaboration with the Road Designer to create the proposed terrains.

The image below is an example showing the location of Proposed Terrain file.



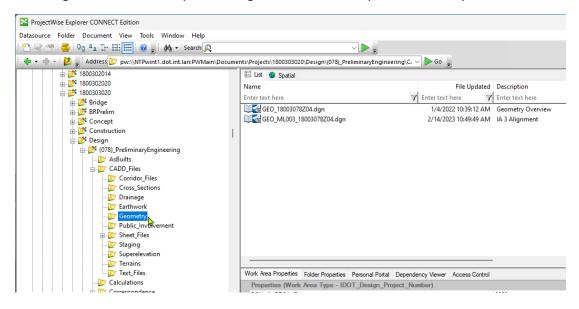
### PROPOSED CORRIDOR

The image below is an example showing the location of Proposed Corridor file.



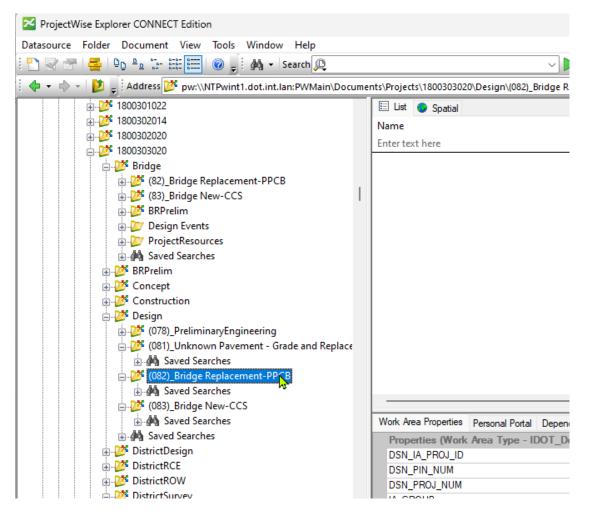
#### PROPOSED GEOMETRY

The image below is an example showing the location of Proposed Geometry file.



The Proposed Corridor, Geometry and Terrain files may be located in the **Design\(Paren)\_Work Description** folder.

The image below is an example showing possible location of Proposed Corridor, Geometry and Terrain files.



# District Design Files

When the District is responsible for the Proposed Corridor, Geometry and Terrain files, the files may be in various locations. Communication with the District Designer is necessary to confirm the actual location on a project-by-project basis.

The image below is an example showing the default DistrictDesign folder structure.

