Maricopa County

Department of Transportation

OpenRoads Designer

MCDOT CONNECT Workspace

Setup Guide

November 18, 2020

CADD GROUP

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Summary

Note: This installation guide describes the steps for installing the MCDOT CONNECT Workspace for OpenRoads Designer Release 3. The workspace is designed to be installed on the local C: Drive as a standalone installation. Options for editing the configuration files and achieving a network installation are also included in this document.

The Workspace is located in one main folder with other files and sub folders as described below:
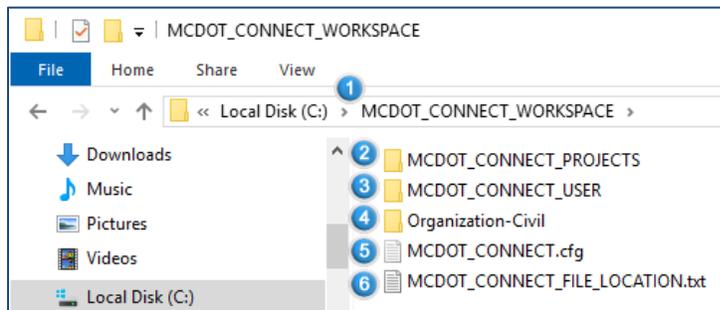

1. The main folder is named **MCDOT_CONNECT_WORKSPACE**.
2. The starting folder for a new project is named **MCDOT_CONNECT_PROJECTS**.
3. The user configuration files and preferences are stored in the folder **MCDOT_CONNECT_USER**.
4. The MCDOT workspace standards and resource files are all located within the folder named **Organization-Civil**.
5. The main configuration file that by default is pointing to the root of the C: Drive is named *MCDOT_CONNECT.cfg*.
6. A text file named *MCDOT_CONNECT_FILE_LOCATION.txt* specifies the location within your OpenRoads Designer installation where the *MCDOT_CONNECT.cfg* file needs to reside for the workspace to work properly.

Workstation Only Install for MCDOT CONNECT Workspace

For a standalone workstation installation of the MCDOT CONNECT Workspace for use with Bentley OpenRoads Designer Connect Edition Release 3:

A. Install Bentley OpenRoads Designer Release 3 using all of the default settings. *(The MCDOT CONNECT Workspace may work with your custom installation of OpenRoads Designer as long as the MCDOT_CONNECT.cfg file is placed within your configured Workspaces folder)*
B. Download the MCDOT_CONNECT_WORKSPACE.zip file from the Maricopa County CADD Website.
   a. Place the file in the root of the C:\ Drive if possible. *(Can also be installed from the Desktop or another location if the C:Drive root is not accessible)*
C. Extract the contents of the zip file as shown.
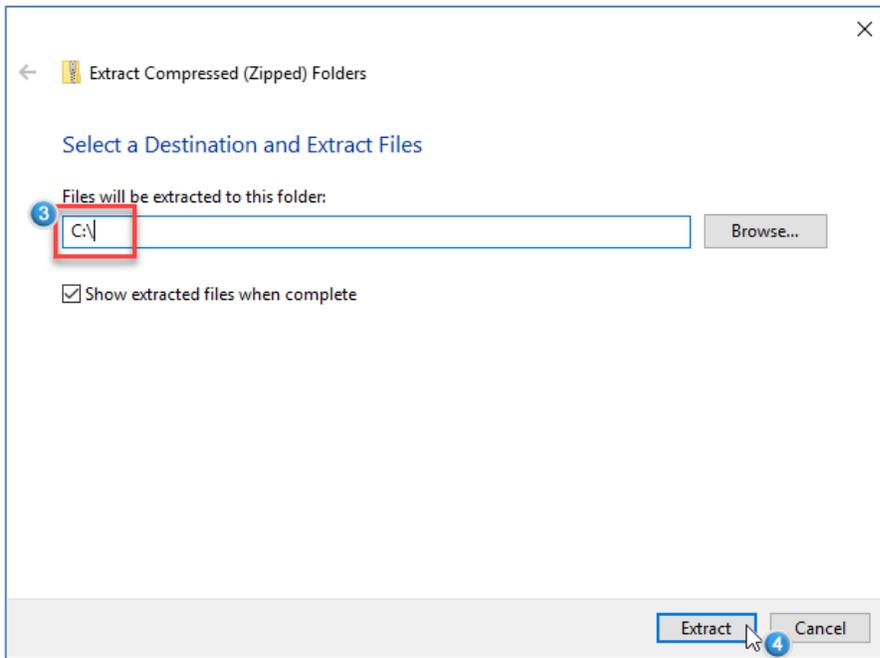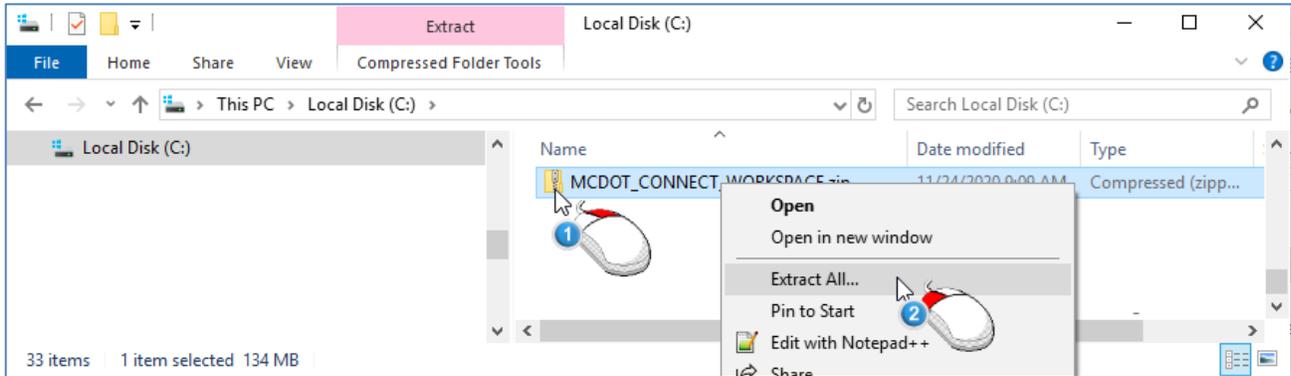
1. Right-Click the Zip file and open the context menu.
2. Left-Click on the **Extract All…** menu item.
3. Change the location to extract the files to **C:** as shown.
4. Press the **[Extract]** button.

(continued)

D. Open the **MCDOT_CONNECT_WORKSPACE** folder and copy the *MCDOT_CONNECT.cfg* file to the *C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration\WorkSpaces* folder.
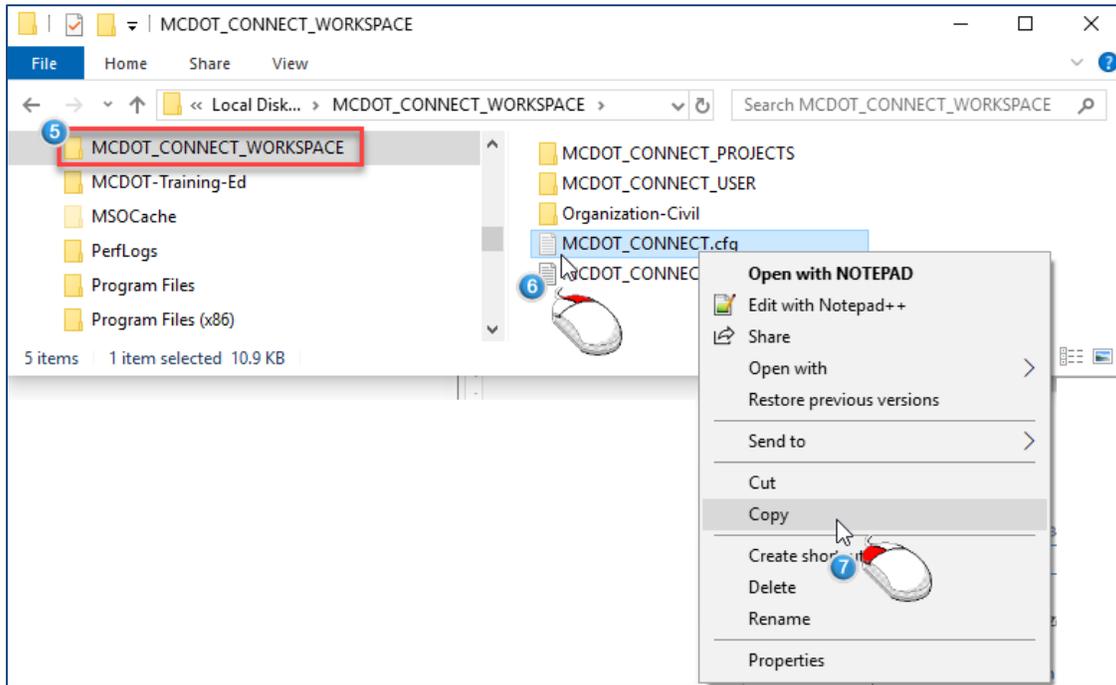
5. Open the **MCDOT_CONNECT_WORKSPACE** folder.
6. Right-Click on **MCDOT_CONNECT**.cfg file.
7. Left-Click on the **Copy** menu item.
8. Navigate to the *C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration\WorkSpaces* folder.
9. Right-click in empty space to access the drop down menu.
10. Select **Paste** from the menu.
11. The file is placed.
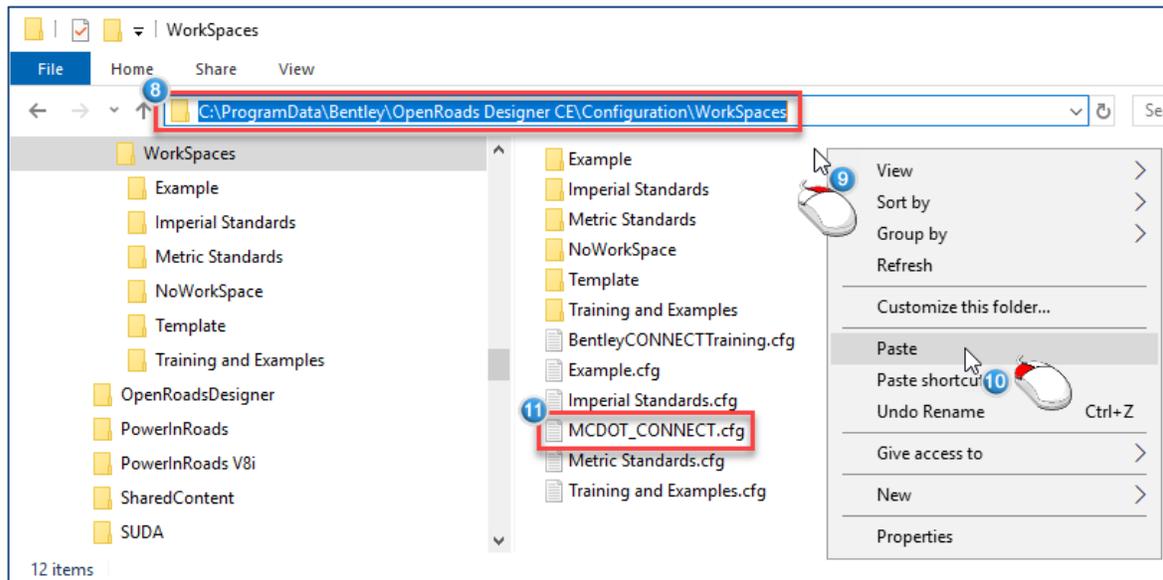
E. Start **OpenRoads Designer** normally and you should now have a **MCDOT CONNECT** Workspace option with a generic **WorkSet** named **TT0000-Project_Name**. *(Please see the section entitled **Setting the Project Number and Project Name** within this installation guide for your project).*
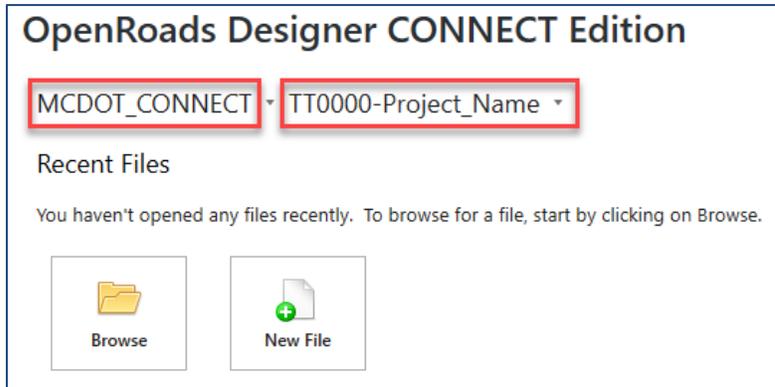
Client / Server Install for MCDOT CONNECT Workspace

To install the MCDOT CONNECT Workspace for use in a client server environment, extract the zip file as described in the stand alone workspace section of this document. Take note of the (3) folders that can be moved to other locations within your network. You can relocate any combination or all of the three folders shown below:

1. The starting folder for new projects is named **MCDOT_CONNECT_PROJECTS**.
2. The user configuration files and preferences are stored in the folder **MCDOT_CONNECT_USER**.
3. The MCDOT workspace standards and resource files are all located within the folder named **Organization-Civil**.

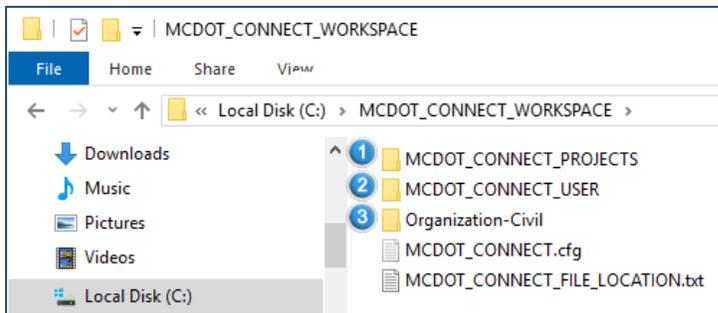Move the folders to the locations that you want them to reside and then edit the **MCDOT_CONNECT.cfg** file to point to the new locations.

1. *(Make sure to edit the **MCDOT_CONNECT**.cfg file that resides in the C:\ProgramData\Bentley\OpenRoads Designer CE\Configuration\WorkSpaces folder. This file would need to be copied to all client workstations after editing).*
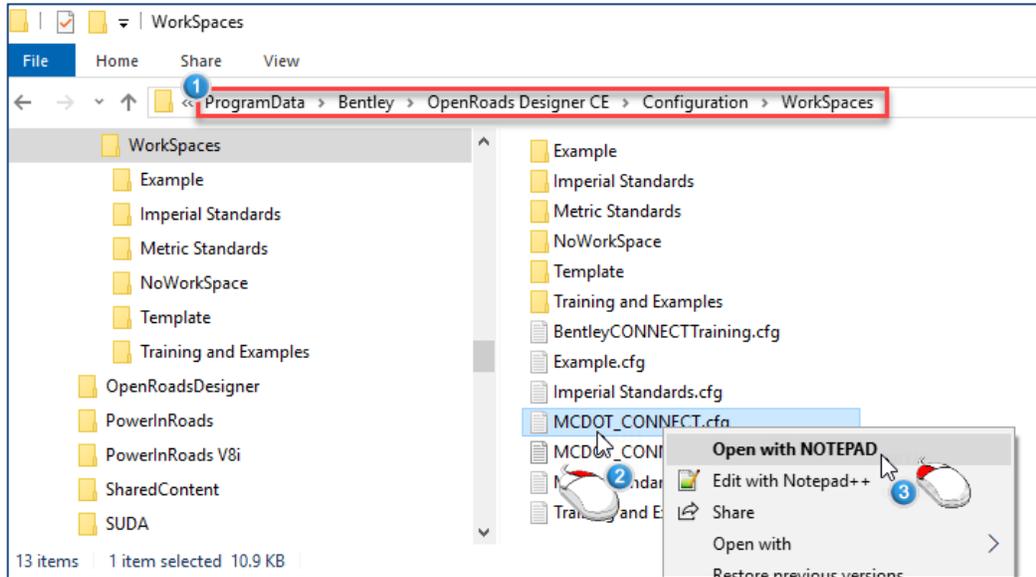
2. Right-click on the **MCDOT_CONNECT.cfg** file.
3. Left-click on **Open with NOTEPAD** menu item.

Relocate the MCDOT CONNECT Workspace Resources:

The **Workspace Standard Location** and the **Civil Organization Standard Location** resources reside within the **MCDOT CONNECT Workspace** in the same *Organization-Civil* folder. You will need to edit this within the *MCDOT_CONNECT.cfg* file in two areas.

1. **Edit the path to where the *Civil Organization Standard Location* has been relocated:**

```
#=============================================================
# Civil Organization Standard Location
#=============================================================
# Organization standards are base standards for a country or region or a
# large asset owner such as a DOT. These standards should be the base that
# provide most of the settings needed for OpenRoads Designer. Additional
# company specific and project specific standards can be layered onto the
# the Organizational standards using the WorkSpace and WorkSet respectively.
#
# By default Organization standards are located at
# \ProgramData\Bentley\OpenRoads Designer CE\Configuration\Organization-Civil\
#
# The default location can be changed using the MY_CIVIL_ORGANIZATION_ROOT variable.
# To redirect the entire configuration folder to a network location, uncomment the
# MY_CIVIL_ORGANIZATION_ROOT line and replace the network path with the appropriate network path.
#
# <<<< Make Changes Here >>>>
MY_CIVIL_ORGANIZATION_ROOT = C:/MCDOT_CONNECT_WORKSPACE/Organization-Civil/

%if defined (MY_CIVIL_ORGANIZATION_ROOT) && exists ($(MY_CIVIL_ORGANIZATION_ROOT))
  CIVIL_ORGANIZATION_ROOT        = $(MY_CIVIL_ORGANIZATION_ROOT)
%else
  CIVIL_ORGANIZATION_ROOT        = $(_USTN_CONFIGURATION)Organization-Civil/
%endif
#-------------------------------------------------------------
```

For example: If the new location for the Organizational-Civil Folder was moved to a server location, the edited line may look like this:

MY_CIVIL_ORGANIZATION_ROOT = //**server-name**/MCDOT_CONNECT_WORKSPACE/Organization-Civil/

Where **server-name** would be replaced with your actual UNC.

Make sure that the entire folder structure exists at the new location.

2. Edit the path to where the *Workspace Standard Location* has been relocated:

```
#=====================================================================
# WorkSpace Standard Location
#=====================================================================
# WorkSpace standards are extensions or overlays to an Organization standard.
# A common use for WorkSpace standards is for company or client standards.
# Organization + WorkSpace + WorkSet = OpenRoads Designer Environment
#
# By default WorkSpace standards are located at
# \ProgramData\Bentley\OpenRoads Designer CE\Configuration\WorkSpaces\
#
# The default location can be changed using the _USTN_WORKSPACESROOT variable.
# To redirect just the WorkSpace folder to a network location, uncomment the
# following line and replace the network path with the appropriate network path.
#
# <<<< Make Changes Here >>>>
MY_WORKSPACES_LOCATION = C:/MCDOT_CONNECT_WORKSPACE/Organization-Civil/

%if defined (MY_WORKSPACES_LOCATION) && exists ($(MY_WORKSPACES_LOCATION))
   _USTN_WORKSPACESROOT              = $(MY_WORKSPACES_LOCATION)
%endif
#--------------------------------------------------------------------
```

Always make sure that the path name ends with a "/" as shown above.

Relocate the MCDOT_CONNECT_PROJECTS folder:

The **Projects Location** is also known as the **WorkSet location.** This can be relocated to a new place as well. You will need to edit this within the *MCDOT_CONNECT.cfg* file as shown below.

Edit the path to where the *WorkSet Standard Location* has been relocated:

```
#==========================================================================
# WorkSet Standard Location
#==========================================================================
# WorkSet standards are extensions or overlays to a WorkSpace standard.
# A common use for WorkSet standards is for project specific standards and data.
# Organization + WorkSpace + WorkSet = OpenRoads Designer Environment
#
# By default WorkSets are children of WorkSpaces and are stored in
# a sub folder of the WorkSpace. In other words, each WorkSpace has its
# own set of WorkSets. The default location is a sub folder named WorkSets. For example,
# \ProgramData\Bentley\OpenRoads Designer CE\Configuration\WorkSpaces\{workspace name}\WorkSets\
#
# If the WorkSpace is redirected to the network using the MY_WORKSPACES_LOCATION
# variable as described in the previous section, the WorkSet is automatically
# redirected to that same network location and no changes are needed in this section.
#
# If you choose to store the WorkSet in a different network location from
# the WorkSpace standards, this section should be used. When WorkSets are
# stored at a different network location than the WorkSpace, they are still
# a child of the WorkSpace and they must still be organized with parent folders
# named the same as the WorkSpace. These folders must be created manually.
# Optionally the WorkSets could be stored in a separate folder from the WorkSpace
# but be aware that this can cause users confusion because it is possible to create
# new files in a WorkSet (project) using incorrect WorkSpace standards. To use this
# optional method storing WorkSpaces and WorkSets in separate folders, uncomment the
# _USTN_WORKSETSROOT = $(MY_WORKSET_LOCATION)/ line below and deleted or commented
# out the line above it.
#
# To redirect to a network location, uncomment the MY_WORKSET_LOCATION line and
# replace the network path with your network path. This is the root path
# where the WorkSets are located and does not include the required
# WorkSpace folders that must be created manually.
#
# <<<< Make Changes Here >>>>
MY_WORKSET_LOCATION = C:/MCDOT_CONNECT_WORKSPACE/MCDOT_CONNECT_PROJECTS/
```

Relocate the MCDOT_CONNECT_USER folder:

The **MCDOT_CONNECT_USER** folder contains the user preferences files and function key assignments among other settings that we use at MCDOT. These resources can be relocated as well. You will need to edit the new location in 2 lines of the *MCDOT_CONNECT.cfg* file as shown below.
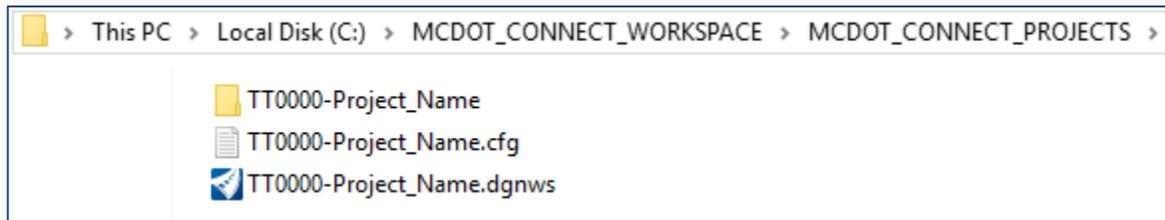
Edit the path to where the *MCDOT_CONNECT_USER* preferences have been relocated:

```
#=========================================================================
# Preference files used to create user preferences, GUI, docking,
# function keys, etc. for a 'Bentley Civil' environment.
#=========================================================================
_USTN_HOMEPREFS              = C:/MCDOT_CONNECT_WORKSPACE/MCDOT_CONNECT_USER/BentleyORD/Prefs/
_USTN_HOMEROOT              = C:/MCDOT_CONNECT_WORKSPACE/MCDOT_CONNECT_USER/BentleyORD/
MS_USERPREFSEED             = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/preferences.spf
MS_GROUPPANELPREFSEED       = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/group_panel_seed.xml
MS_DOCKINGPREFSEED          = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/docking_seed.xml
MS_RIBBONPREFSSEED          = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/ribbon_seed.xml
MS_EXPLORERSETTINGSSEED     = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/explorer_settings_seed.xml
MS_FKEYMNUSEED              = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/function_keys_seed.mnu
MS_BUTTONMENUSEED           = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/Default.btnmenu
MS_KEYBOARDSHORTCUTSSEED    = $(CIVIL_ORGANIZATION_ROOT)Preference Seeds/keyboard_shortcuts_seed.xml
#-----------------------------------------------------------------
```
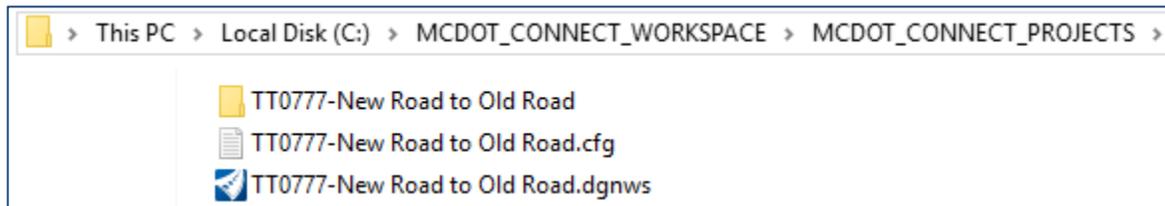
Setting the Project Number and Project Name:

The **MCDOT_CONNECT_PROJECTS** folder is provided as a template for new MCDOT projects. The folder and supporting files need to be renamed for first use. You may want to make a backup of the files and folders for subsequent projects in the future.

1. **Edit the names of the files and folder to match your project:**

> This PC > Local Disk (C:) > MCDOT_CONNECT_WORKSPACE > MCDOT_CONNECT_PROJECTS >

TT0000-Project_Name
TT0000-Project_Name.cfg
TT0000-Project_Name.dgnws

For example: Let's say that your new project is named *TT0777-New Road to Old Road*. Just rename the files as shown below before opening ORD.

> This PC > Local Disk (C:) > MCDOT_CONNECT_WORKSPACE > MCDOT_CONNECT_PROJECTS >

TT0777-New Road to Old Road
TT0777-New Road to Old Road.cfg
TT0777-New Road to Old Road.dgnws

Start OpenRoads Designer and you will see your new project listed:

OpenRoads Designer CONNECT Edition

MCDOT_CONNECT ▾ TT0777-New Road to Old Road ▾

Recent Files

You haven't opened any files recently. To browse for a file, start by clicking on Browse.

Browse

New File