

Sheet Index Editing – Bridge Bureau

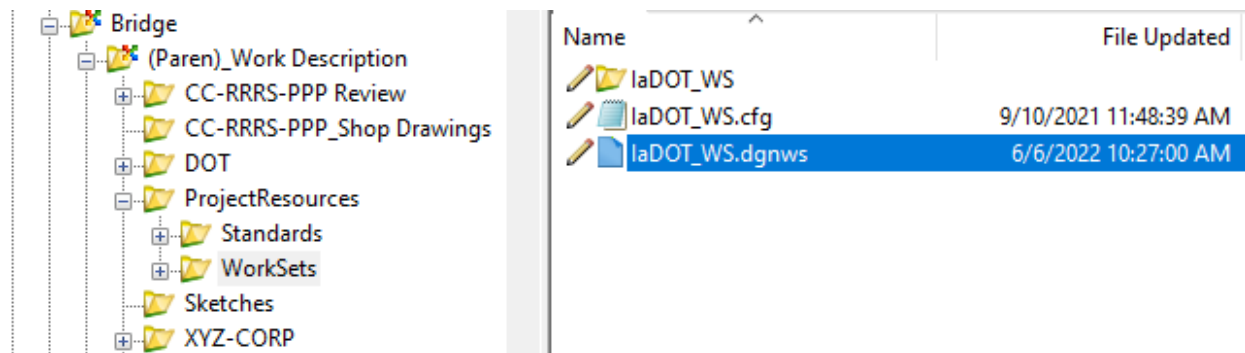
For Iowa DOT Bridge Bureau plan sheet development, the following information is to aid with the use of the Sheet Index tool in MicroStation CONNECT workflows. The Sheet Index is used only with Sheet Models and will aid in populating Text Fields and print output.

Bentley Systems has guidance on the basic use of the Sheet Index. This can be found on the Bentley Learn Website (<https://learn.bentley.com/app/Public>) as well as videos on YouTube.

The Iowa DOT Road Design Bureau also has a video on YouTube covering the use of Sheet Index used for Road Design plans and the Title Sheet, “Iowa DOT MicroStation ORD Connect - Sheet Index” (<https://youtu.be/Ks3IPBL582I>). This video is more specific to the use of the Road Design Bureau sheeting process, however, some of the steps are similar to the Bridge Bureau process.

Every Project Directory and Work Area folder (*this includes the **Bridge and (Paren)_Work Description** subfolders*) has a Sheet Index file (**IaDOT_WS.dgnws**) that is located in the **ProjectResources\WorkSets** subfolders. The IaDOT_WS.dgnws file is what sets the format of the Sheet Index properties and Text Fields.

If the IaDOT_WS.dgnws file is updated/revised by the Iowa DOT, then existing project directories will not see the updated version, only new directories will show this. If existing projects require the need to have the updated version, then the original dgnws file will need to be replaced in ProjectWise through the managed export/import process. ***Something to consider prior to replacing an existing dgnws file, is that all existing dgnws data will be overwritten requiring this data to be reentered.***

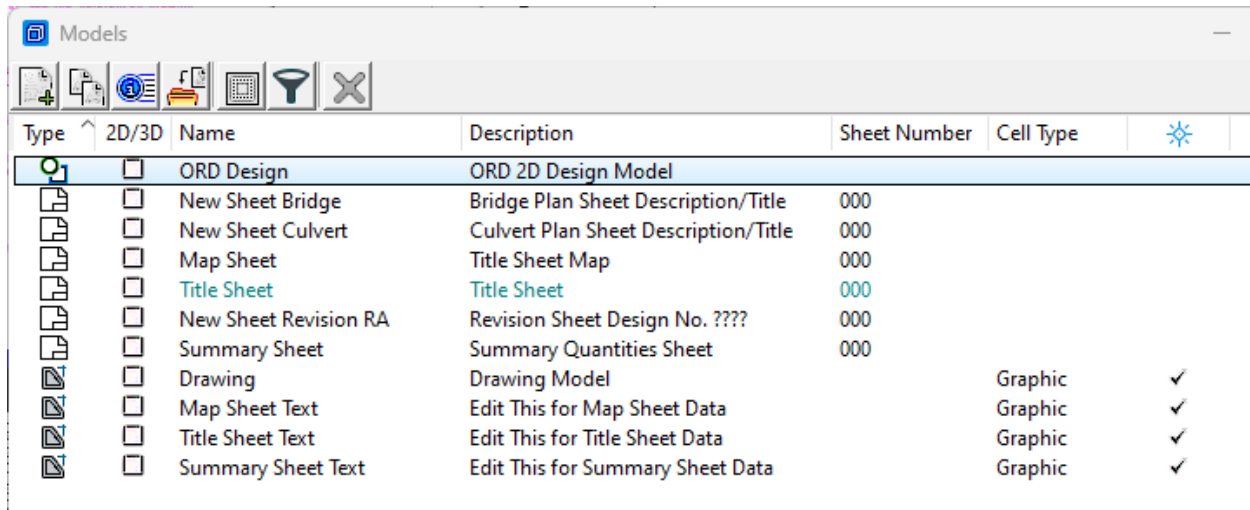


The Sheet Index is available for use in OpenBridge Modeler (OBM), OpenRoads Designer (ORD) and ProStructures. Plan sheeting and the use of the Sheet Index will be done in either ORD or ProStructures.

To do ANY editing of the Sheet Index, this includes adding/removing sheet models, the Sheet Index must be open for editing.

The source location for the Bridge Plan Production Seed file is,
PWMain\Documents\IowaDOTStandardsConnect\Configuration\Organization-Civil\IowaDOT_Standards\ProStructures\Seed\Imperial3d.dgn

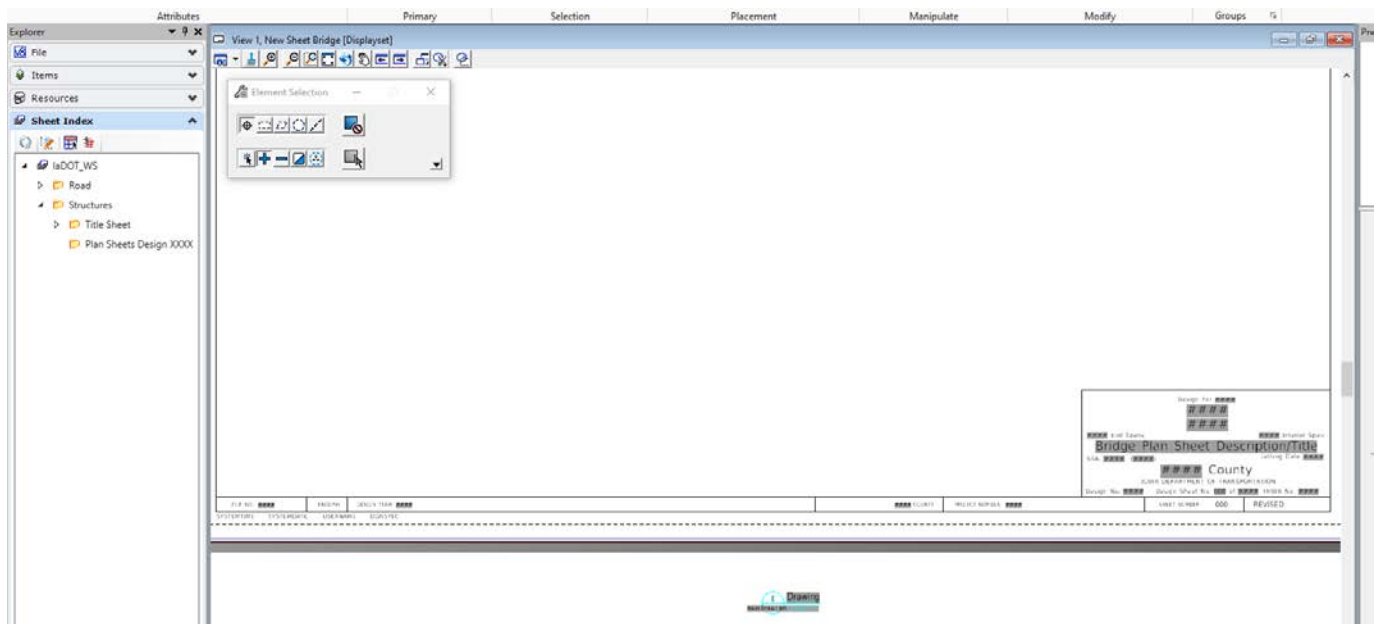
Open the project file created from the Bridge Plan Production Seed file (Imperial3d.dgn) to either the **New Sheet Bridge** or **New Sheet Culvert** sheet models.



Type	2D/3D	Name	Description	Sheet Number	Cell Type	
	<input type="checkbox"/>	ORD Design	ORD 2D Design Model			
	<input type="checkbox"/>	New Sheet Bridge	Bridge Plan Sheet Description/Title	000		
	<input type="checkbox"/>	New Sheet Culvert	Culvert Plan Sheet Description/Title	000		
	<input type="checkbox"/>	Map Sheet	Title Sheet Map	000		
	<input type="checkbox"/>	Title Sheet	Title Sheet	000		
	<input type="checkbox"/>	New Sheet Revision RA	Revision Sheet Design No. ????	000		
	<input type="checkbox"/>	Summary Sheet	Summary Quantities Sheet	000		
	<input type="checkbox"/>	Drawing	Drawing Model		Graphic	✓
	<input type="checkbox"/>	Map Sheet Text	Edit This for Map Sheet Data		Graphic	✓
	<input type="checkbox"/>	Title Sheet Text	Edit This for Title Sheet Data		Graphic	✓
	<input type="checkbox"/>	Summary Sheet Text	Edit This for Summary Sheet Data		Graphic	✓

If developing plans with an existing file created from an older version of the Bridge Plan Production Seed file, there may be a need to import the new Title and Map sheet and drawing models, and the Revision RA sheet model from the updated seed file.

The text displaying in “gray background blocks” is a visual indicator that the text has a **Text Field** applied to it meaning it is linked to data from a CADD element, model, or file. In MicroStation Explorer, expand the Sheet Index section while in a sheet model.



Sheet Index Structure

There are three groups of properties within the Sheet Index - **Index**, **Folder** and **Sheet**. The **Index** and **Folder** Properties are what is being used on the Sheet Models. The **Sheet** Properties are not currently being used in the preset Text Fields.

Index Properties are used to populate Text Fields on the following sheet models:

- Title Sheet
- Map Sheet (in border)

The Index Properties can be edited through the MicroStation Properties dialog window. Properties are only editable when the Sheet Index is open for editing.

The Index Properties image shown below displays the text in gray, this is a visual indicator that the Sheet Index is not opened for editing (Sheet Index file is Read-Only).

Properties (Sheet Index)

Link Tree (1)

IaDOT_WS (3)

Index Properties

Bridge File Number	98765
Contract ID	ID
County	ABCDEF
Design Team	Iowa DOT
FRA Number	FRA #
Letting Date	Jan 01 2000
PIN	PIN
Project Directory	0123456789
Project Location Line 1	Location
Project Location Line 2	Location
Project Location Line 3	Location
Project Number	12345
ROW Project Number 1	12345
ROW Project Number 2	56478
ROW Project Number 3	98765
Work Type	Type

Sheet Numbering Controls

Automatic Naming of Sheet	On
Increment	1
Inherit Naming Rule From Parent	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	Off
Start Number	1
Total Sheets Count	3

The Index Properties image shown below displays the text in **bold black**, this is a visual indicator that the Sheet Index is opened for editing allowing changes to be entered.

NOTE: The example BOLD text in the Index Properties data (column on the right in the image below) is to be edited accordingly to match the project specific information. Also, as of 10-24-2023 the CONTRACT ID NUMBER is no longer being placed on the Bridge Bureau Title Sheet. Therefore, this data field of the Sheet Index-Index Properties is not being used.

Properties (Sheet Index) ▼ 🔍 ✕

Link Tree (1)

laDOT_WS (3)

Index Properties ▲

Bridge File Number	98765
Contract ID	ID
County	ABCDEF
Design Team	Iowa DOT
FRA Number	FRA #
Letting Date	Jan 01 2000
PIN	PIN
Project Directory	0123456789
Project Location Line 1	Location
Project Location Line 2	Location
Project Location Line 3	Location
Project Number	12345
ROW Project Number 1	12345
ROW Project Number 2	56478
ROW Project Number 3	98765
Work Type	Type

Sheet Numbering Controls ▲

Automatic Naming of Sheet	On
Increment	1
Inherit Naming Rule From Parent	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	Off
Start Number	1
Total Sheets Count	3

Folder Properties are used to populate Text Fields on the sheet model:

- Title Sheet (in title block and border)

The Folder Properties are essentially a template used for each Plan Sheet Design number folder. These can be edited through the MicroStation Properties dialog window for each Design number. Properties are only editable when the Sheet Index is open for editing.

NOTE: The example BOLD text in the Folder Properties data (column on the right in the image below) is to be edited accordingly to match the project specific information.

Properties (Sheet Index) ▼ ⓘ ✕

▲ Folder Link (1)

 Plan Sheets Design XXXX (3)

General ▲

Folder Name **Plan Sheets Design XXXX**

Folder Properties ▲

Bridge Design Team	AAA\BBB\CCC
Bridge Project Number	NHSX-092-9(007)-3H-58
County	County Test Name
Cross Section Road Name	Road Name
Design Number	2222
Design Team	Iowa DOT
End Spans	10'-0"
FHWA or Asset ID Number	223344
Interior Span	10'-0"
Plan Sheet Description	Description
Skew and Direction	30 Degree RA
Station	10+45.89
Turn-in Date	Jan 2025
Type and Size of Structure 1	Type and Size of Structure 1
Type and Size of Structure 2	Type and Size of Structure 2

Sheet Numbering Controls ▲

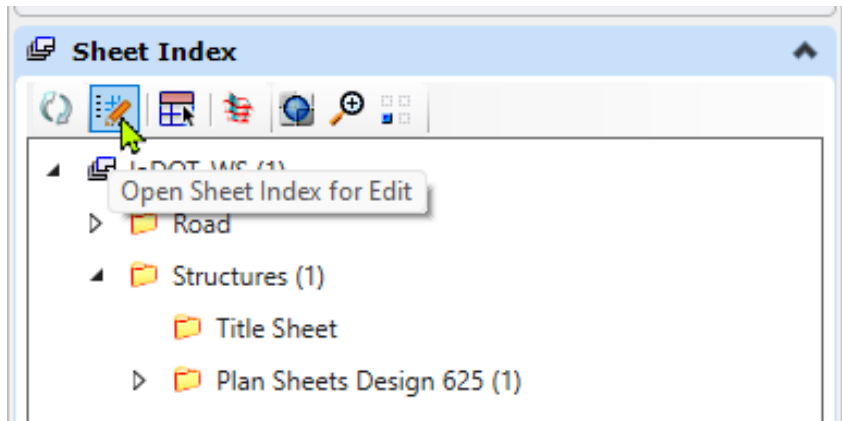
Automatic Naming of Sheet	On
Increment	1
Inherit Naming Rule From Parent	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	On
Start Number	1
Total Sheets Count	3

Sheet Index Use

To assign or edit the Text Fields used with the Sheet Index, select **Open Sheet Index for Edit**.

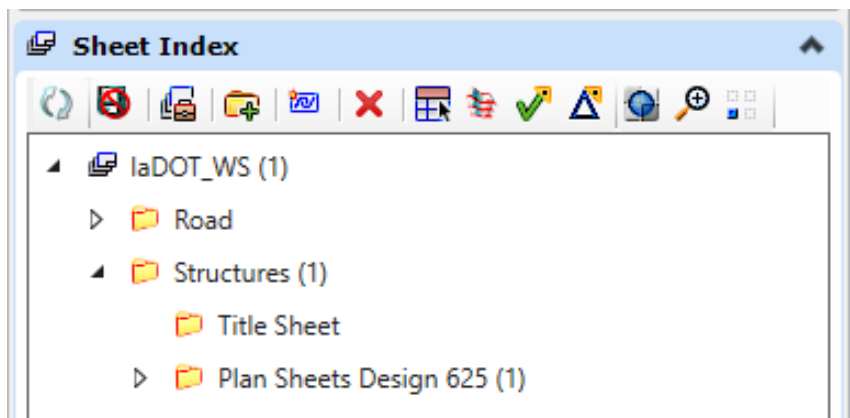


The image below is showing the Sheet Index in ORD.

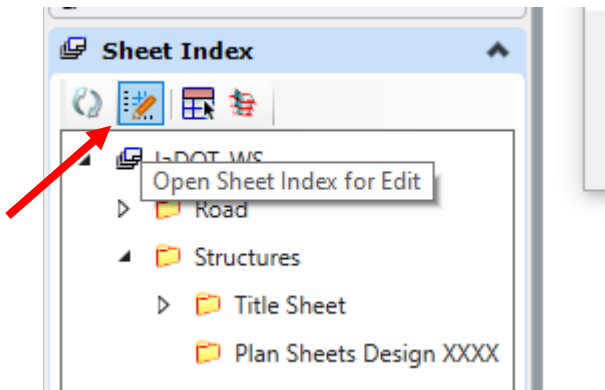


Once the Sheet Index is opened for editing the icon selections will change.

The image below is showing the Sheet Index open for edit in ORD. This also shows two “technology preview” tools indicated by the yellow triangle w/ black dot added by Bentley Systems to ORD.

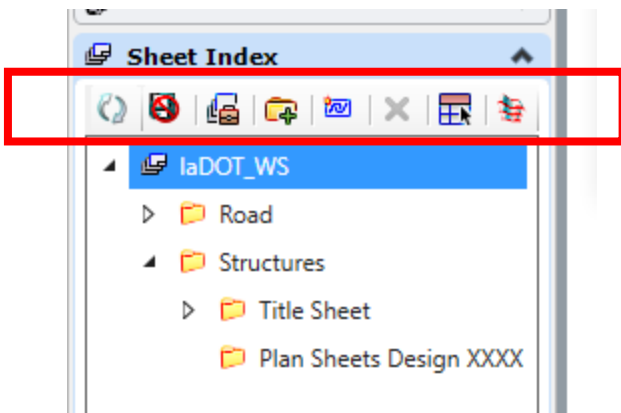


The image below is showing Sheet Index in ProStructures.

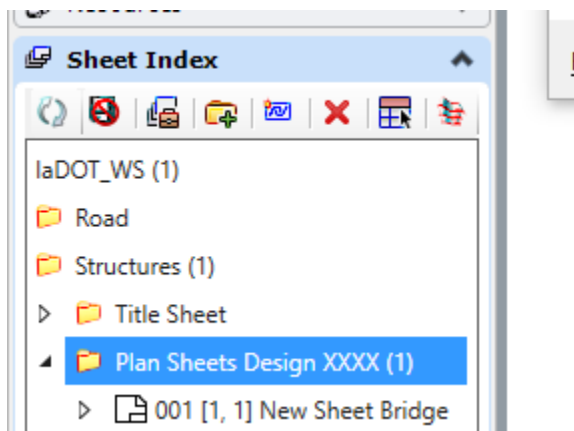


Once the Sheet Index is opened for editing the icon selections will change.

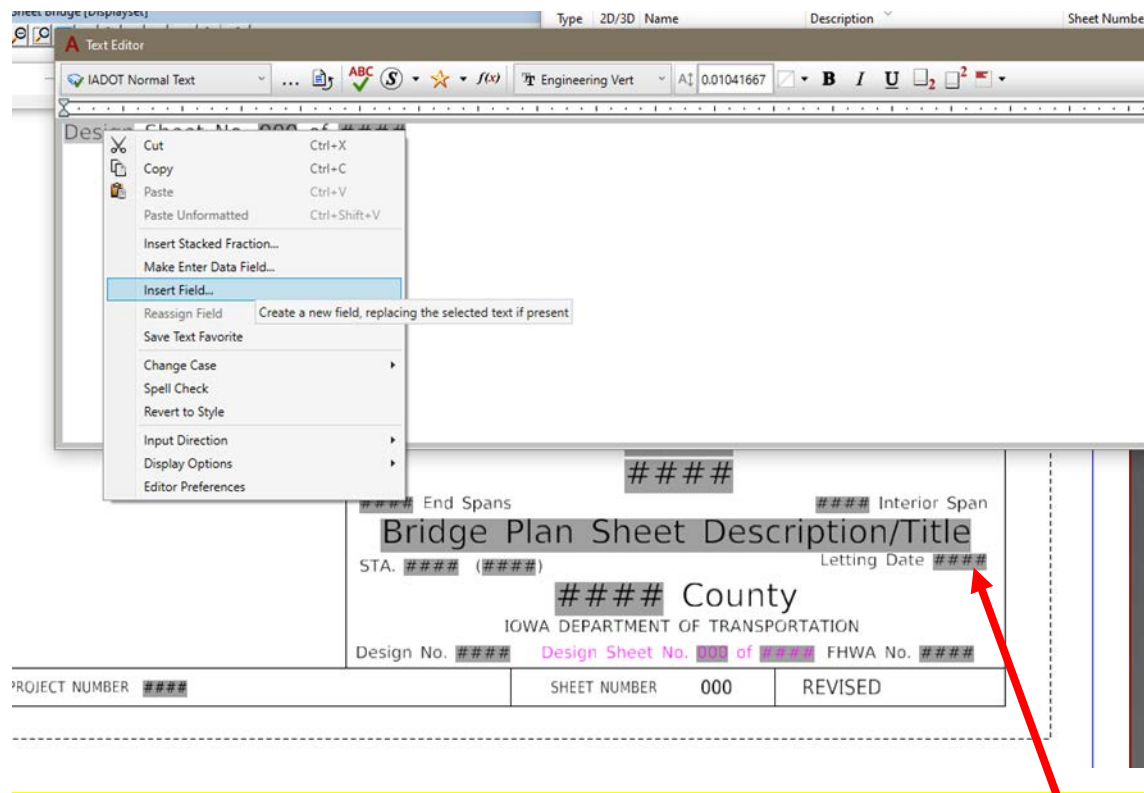
The image below is showing the Sheet Index open for edit in ProStructures.



To assign the Text Fields to the Sheet Index properties, the Sheet Index must be open for editing and the Bridge and Culvert sheet models must be added to the Sheet Index under the Plan Sheets Design XXXX folder.

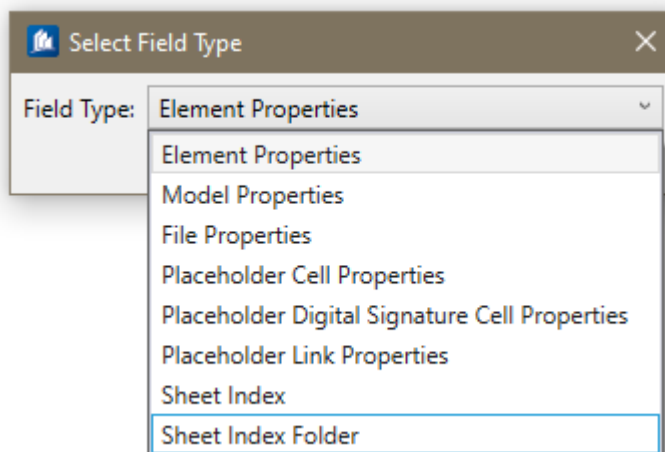


The Bridge and Culvert Sheet Models already have Text Fields assigned to the Title Block and Sheet Border. There may be a need to create a new Text Field or change, reassign, an existing Text Field. To create/assign a new Text Field, select text to edit, highlight text, right click, and select Insert Field....



Note: The image above shows an earlier version of the Title Block using “Letting Date”, this has been changed to now state “Turn-in Date”.

Choose the Text Field Type from the list shown. This list will vary depending on field types that are available. If the Sheet Index is not “Open for Edit” then the two Sheet Index options shown below will not display in the list, therefore they will not be available as a selectable option.



Once the Field Type is selected then select (click/highlight) the appropriate field properties wanting assigned to the Text Field.

Bridge plan sheets are using the Field Types of “Model Properties”, “Sheet Index” and “Sheet Index Folder”.

The “**Model Properties**” field is selected to populate the Text Field used on the Title Block plan sheet Description/Title, and the Design Sheet number used on Bridge Bureau plan sheets.

The screenshot shows the 'Fields Editor' dialog box. The 'Models (1)' section is expanded, showing a folder named 'New Sheet Bridge' which contains a file named 'Border.dgn, Border - Bridge'. The 'General' tab is selected, displaying the following properties:

Is Active	True
Name	New Sheet Bridge
Description	Bridge Plan Sheet Description/Title
Ref Logical	
Type	Sheet
Design Dimension	2D
Is Markup	False
Annotation Scale	Full Size 1 = 1
Design Scale	1.0000
Paper Scale	1.0000
Propagate Annotation Scale	On
Line Style Scale	Annotation Scale
Update Fields Automatically	True

The 'Sheet' tab is also visible, showing the following properties:

Show Sheet Boundary	True
Sheet Number	000
Sequence Number	0
Border Attachment	(None)
Sheet Size	ANSI D
Height	22.0000"
Width	34.0000"
Sheet Unit	Inches
Origin	0.00000000ft, 0.00000000ft
Rotation	0.000°
Sheet Index	laDOT_WS.dgnws \ laDOT_WS \ Struct

The 'Isometric' tab is partially visible at the bottom, showing 'Isometric Plane' set to 'Top'.

The **“Sheet Index”** field is selected for Text Fields used on the Title Sheet and the Map Sheet used on Bridge Bureau Plan sheets.

The screenshot shows the 'Fields Editor' window. On the left, a 'Link Tree (1)' contains 'IaDOT_WS (1)'. The main area is divided into two sections: 'Index Properties' and 'Sheet Numbering Controls'.

Index Properties

Bridge File Number	98765
Contract ID	ID
County	ABCDEF
Design Team	Iowa DOT
FRA Number	FRA #
Letting Date	Jan 01 2000
PIN	PIN
Project Location Line 1	Location
Project Location Line 2	Location
Project Location Line 3	Location
Project Number	12345
ROW Project Number 1	12345
ROW Project Number 2	56478
ROW Project Number 3	98765
Work Type	Type

Sheet Numbering Controls

Automatic Naming of Sheet	On
Increment	1
Inherit Naming Rule From	Off
Number of Digits	3
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	Off
Start Number	1
Total Sheets Count	1

At the bottom, 'Property: (None)' is displayed on the left and 'Preview: ####' on the right. 'OK' and 'Cancel' buttons are at the bottom right.

The “**Sheet Index Folder**” field is selected for fields used on the Title Block of Bridge Bureau plan sheets.

Fields Editor

Folder Link (1)

Plan Sheets Design XXXX (1)

General

Folder Name

Plan Sheets Design XXXX

Folder Properties

Bridge Design Team

AAA\BBB\CCC

Bridge Project Number

NHSX-092-9(007)-3H-58

Cross Section Road Name

Road Name

Design Number

2222

Design Team

Iowa DOT

End Spans

10'-0"

FHWA or Asset ID Number

223344

Interior Span

10'-0"

Plan Sheet Description

Description

Skew and Direction

30 Degree RA

Station

10+45.89

Turn-in Date

Jan 01 2025

Type and Size of Structure 1

Type and Size of Structure 1

Type and Size of Structure 2

Type and Size of Structure 2

Sheet Numbering Controls

Automatic Naming of Sheets

On

Increment

1

Inherit Naming Rule From

Off

Number of Digits

3

Sheet Number Prefix

Sheet Number Suffix

Show Leading Zero

On

Start Number

1

Total Sheets Count

1

Property: (None)

Preview: ####

OK

Cancel

Adding a sheet model to the Sheet Index will allow the Text Fields to populate from their perspective properties they are assigned to.

Properties are only editable when the Sheet Index is open for editing. These are specific to each Plan Sheets Design folders per Design Number. All plan sheets that are added under each Plan Sheets Design folder will use these properties in their Text Fields.

Folder Properties	
Bridge Design Team	AAA\BBB\CCC
Bridge Project Number	NHSX-092-9(007)-3H-58
Cross Section Road	Road Name
Design Number	2222
Design Team	Iowa DOT
End Spans	10'-0"
FHWA or Asset ID	223344
Interior Span	10'-0"
Plan Sheet Description	Description
Skew and Direction	30 Degree RA
Station	10+45.89
Turn-in Date	Jan 01 2025
Type and Size of Structure 1	Type and Size of Structure 1
Type and Size of Structure 2	Type and Size of Structure 2

Sheet Numbering Controls	
Automatic Naming	On
Increment	1
Inherit Naming Rule	Off
Number of Digits	3
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	On
Start Number	1
Total Sheets Count	1

Sheet Models in the Bridge Plan Production Seed file

The Title, Map, Bridge and Culvert sheet models contain instructions outside of the sheet border that provide guidance for editing the sheet Title Block and border information with regards to Addendum, Revision and Plan Sheet Number “V” sequencing.

Type	2D/3D	Name	Description	Sheet Number	Cell Type	
	<input type="checkbox"/>	ORD Design	ORD 2D Design Model			
	<input type="checkbox"/>	New Sheet Bridge	Bridge Plan Sheet Description/Title	000		
	<input type="checkbox"/>	New Sheet Culvert	Culvert Plan Sheet Description/Title	000		
	<input type="checkbox"/>	Map Sheet	Title Sheet Map	000		
	<input type="checkbox"/>	Title Sheet	Title Sheet	000		
	<input type="checkbox"/>	New Sheet Revision RA	Revision Sheet Design No. ????	000		
	<input type="checkbox"/>	Summary Sheet	Summary Quantities Sheet	000		
	<input type="checkbox"/>	Drawing	Drawing Model		Graphic	✓
	<input type="checkbox"/>	Map Sheet Text	Edit This for Map Sheet Data		Graphic	✓
	<input type="checkbox"/>	Title Sheet Text	Edit This for Title Sheet Data		Graphic	✓
	<input type="checkbox"/>	Summary Sheet Text	Edit This for Summary Sheet Data		Graphic	✓

The image below is showing the Title Sheet, sheet model in the **Bridge Plan Production Seed** file with instructional notes outside the sheet border.

The screenshot displays the Bridge Plan Production Seed file interface. The main window shows the Title Sheet model, which includes an index of sheets, a map of Iowa, and a title block with project information. The sheet is labeled "Preliminary Not for Construction". The index of sheets lists the following:

Sheet	Description
000	Bridge Plan Sheet Description/Title
000	Culvert Plan Sheet Description/Title
000	Title Sheet Map
000	Title Sheet
000	Revision Sheet Design No. ????
000	Summary Quantities Sheet

The title block contains the following information:

- Project Name: PRIMARY ROAD SYSTEM
- County: #### COUNTY
- Project Number: 12345
- ROW Project Number 1: 12345
- ROW Project Number 2: 56478
- ROW Project Number 3: 98765
- Work Type: Type

The sheet is labeled "Preliminary Not for Construction".

The information for the **R.O.W. Project Number** Text Field may not be available to enter. If needed, the text element may be changed to the **TextNonPlot** level that will allow the text to display in the CADD file but will not print in the pdf output.

NOTE: As of 10-24-2023 the CONTRACT ID NUMBER is no longer being placed on the Bridge Bureau Title Sheet. Therefore, this data field of the Sheet Index-Index Properties is not being used and is to be deleted if necessary.

Revisions		TOTAL	
See Revision Sheet RA 12-31-2022		XX	
PROJECT IDENTIFICATION NUMBER			
#####			
CONTRACT ID NUMBER			
#####			
PROJECT NUMBER			
#####			
R.O.W. PROJECT NUMBER			
#####			
PROJECT DIRECTORY NUMBER			
#####			

Place The Bridge or Culvert Standard Plans Table Here

Index Properties	
Bridge File Number	98765
Contract ID	ID
County	ABCDEF
Design Team	Iowa DOT
FRA Number	FRA #
Letting Date	Jan 01 2000
PIN	PIN
Project Directory	0123456789
Project Location Line 1	Location
Project Location Line 2	Location
Project Location Line 3	Location
Project Number	12345
ROW Project Number 1	12345
ROW Project Number 2	56478
ROW Project Number 3	98765
Work Type	Type

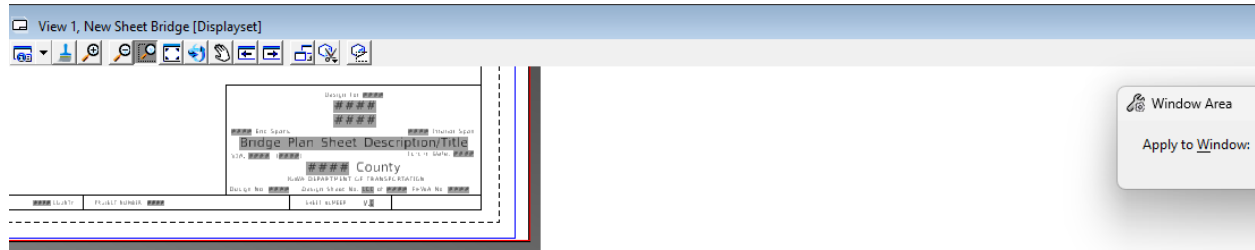
Sheet Numbering Controls	
Automatic Naming of She	On
Increment	1
Inherit Naming Rule For	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	Off
Start Number	1
Total Sheets Count	0

The Bridge and Culvert Plan sheet models are essentially the same with the exception that the Title Block in the Culvert sheet does not include the End Span and Interior Span Text Fields.

The image below is showing the Bridge Plan sheet model in the **Bridge Plan Production Seed** file.

Design For #####			
#####			
#####			
##### End Spans		##### Interior Span	
Bridge Plan Sheet Description/Title			
STA. ##### (#####)		Turn-in Date: #####	
##### County			
IOWA DEPARTMENT OF TRANSPORTATION			
Design No. #####		Design Sheet No. 000 of ##### FHWA No. #####	
##### COUNTY	PROJECT NUMBER: #####	SHEET NUMBER	V.0

The image below is showing the Bridge Plan sheet model with instructional notes outside the sheet border.



INSTRUCTIONS TO CADD USER (UPDATED JANUARY 2023):
(It may be ideal to keep this Sheet Model as a template to copy for all new sheets as needed.)
Text fields in the border and Title Block are 'auto-filled' with information when added to the Sheet Index.
The text fields on this sheet are reading data from the Folder Properties of the 'Plan Sheets Design' folder part in the Sheet Index (See Image 1).

When applicable, to show the "Addendum" cell in the lower right corner of plan sheet, turn on the level "SheetAddenda" (See Image 2).

The Sheet Number of Bridge Bureau plan sheets are now setup to use the "V" Sheet number at ALL TIMES. No longer using a differing Sheet Number for Bridge Bureau plans submitted separately versus plans submitted to Road Design Bureau as "V" sheets.
The updated Sheet Number "V.0" will auto sequence when added to the Sheet Index.

When applicable, to show the "Revised" text in the lower right box of the plan sheet border, turn on the level "SheetRevisedText" in the referenced file "Border.dgn". Also turn on the level "PC_REVISION_ANNOTATION" and the "Revised" cell will display vertically outside the border at the lower right corner (See Images 2 & 3). Edit the date in the cell accordingly.

IN SEED FILES CREATED PRIOR TO JANUARY 2023, THE PREVIOUS STATEMENT WAS AS SHOWN BELOW:
(When applicable, to show the "Addendum" cell in the lower right corner of plan sheet, turn on the level "SheetAddendum" in the referenced file "Border.dgn".)

(When applicable, to show the "Revised" text in the lower right box of the plan sheet border, turn on the level "SheetRevisedText" in the referenced file "Border.dgn".
Add "Revised" cell vertically outside the border at the lower right corner. Edit the date in the cell accordingly.)

Image 1

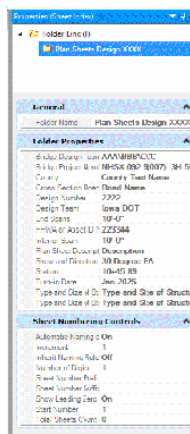


Image 2

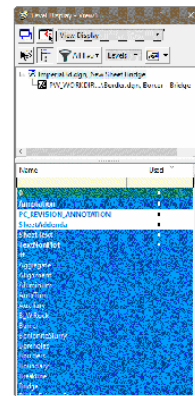
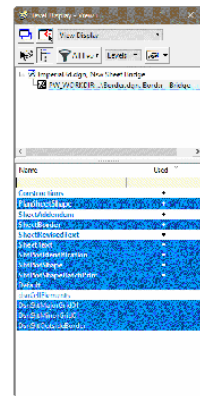
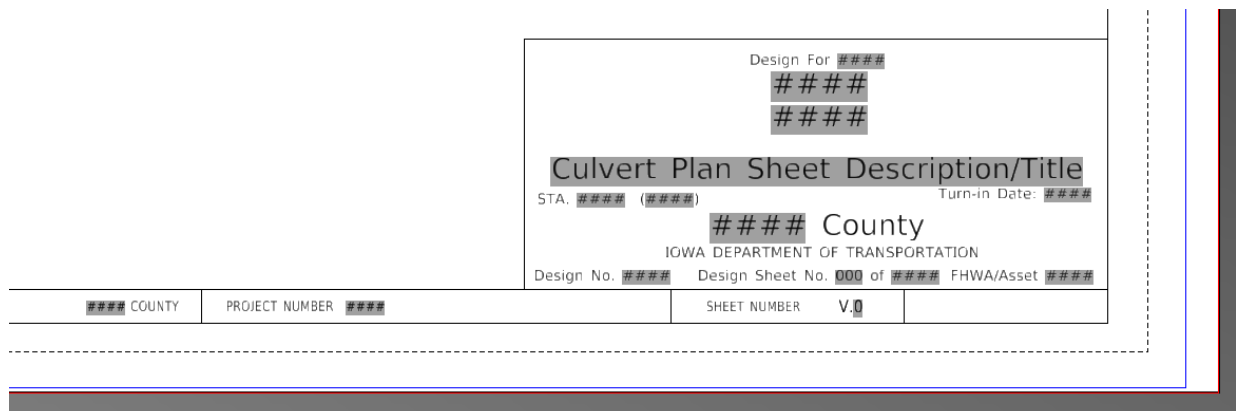


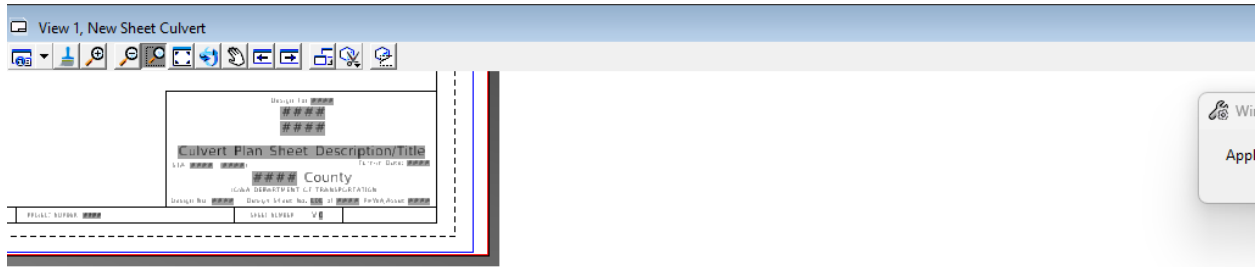
Image 3



The image below is showing the Culvert Plan sheet model in the **Bridge Plan Production Seed** file.



The image below is showing the Culvert Plan sheet model with instructional notes outside the sheet border.



INSTRUCTIONS TO CADD USER (UPDATED JANUARY 2023):
(It may be ideal to keep this Sheet Model as a template to copy for all new sheets as needed.)
Text fields in the border and Title Block are "auto-filled" with information when added to the Sheet Index.
The text fields on this sheet are reading data from the Folder Properties of the "Plan Sheets Design" folder part in the Sheet Index (See Image 1).

When applicable, to show the "Addendum" cell in the lower right corner of plan sheet, turn on the level "SheetAddenda" (See Image 2).

The Sheet Number of Bridge Bureau plan sheets are now setup to use the "V" Sheet number at ALL TIMES. No longer using a differing Sheet Number for Bridge Bureau plans submitted separately versus plans submitted to Road Design Bureau as "V" sheets.
The updated Sheet Number "V.0" will auto sequence when added to the Sheet Index.

When applicable, to show the "Revised" text in the lower right box of the plan sheet border, turn on the level "SheetRevisedText" in the referenced file "Border.dgn". Also turn on the level "PC REVISION ANNOTATION" and the "Revised" cell will display vertically outside the border at the lower right corner (See Images 2 & 3). Edit the date in the cell accordingly.

IN SHEET FILES CREATED PRIOR TO JANUARY 2023, THE PREVIOUS STATEMENT WAS AS SHOWN BELOW:
(When applicable, to show the "Addendum" cell in the lower right corner of plan sheet, turn on the level "SheetAddendum" in the referenced file "Border.dgn".)

(When applicable, to show the "Revised" text in the lower right box of the plan sheet border, turn on the level "SheetRevisedText" in the referenced file "Border.dgn".
Add "Revised" cell vertically outside the border at the lower right corner. Edit the date in the cell accordingly.)

Image 1

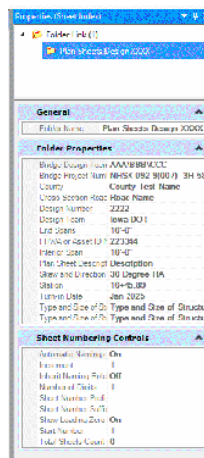


Image 2

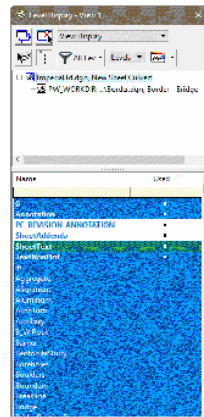
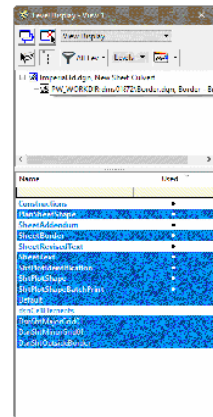


Image 3



Plan Sheets for Multiple County Projects in the Same Project Number

There will be scenarios where a project normally assigned to one county will have one or more structural Designs located in another(adjoining) county. When this happens the plan sheets for the adjoining counties will list both counties.

The Title Sheet will list all counties involved in the project.

The Detail Plan Sheets for the designs located in the Project Number Primary County listed in the Project Number will show only that county.

The Detail Plan Sheets for the designs located in the adjoining Design Number County (or secondary) to the county listed in the Project Number will show both counties.

The multiple county listing is explained with the following project example.

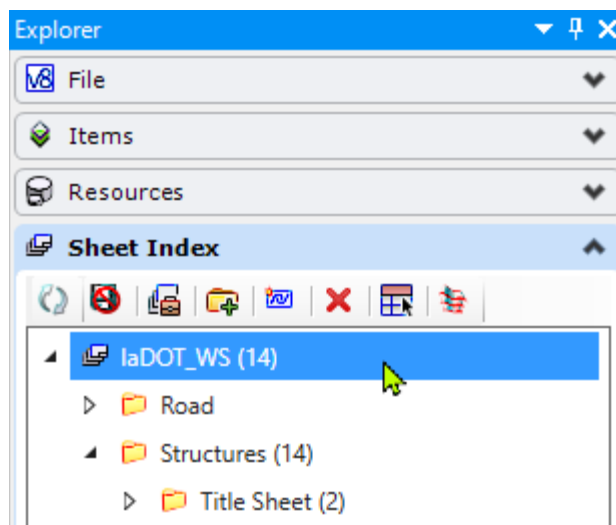
Example Project NHSX-218-3(090)- -3H-92 **Washington Co. Des. No. 1324** (Project Number Primary County) with **Johnson Co. Des. 1424** (the adjoining Design Number County, or secondary) tied to it.

The “Project Number Primary County”, in this example, is Washington Co. Des. No. 1324 and will be the only county shown in the Title Block and Sheet Border of the plan sheets, shown as **Washington**.

The adjoining “Design Number County”, in this example, Johnson Co. Des. 1424 will be shown in the Title Block and Sheet Border of the plan sheets as **Johnson (Washington)**.

With the use of the Sheet Index to populate the Text Fields on the plan sheet, the County Text Field in the Sheet Index is used to provide the data in the Title Block as well as the Sheet Border.

The image below is showing the location in the Sheet Index of the data used for the Title Sheet Text Fields.



The image below is showing the data in the Sheet Index Properties used for the Title Sheet Text Fields. The “Project Number Primary County” is for Washington County and the adjoining “Design Number County” (in this example, Johnson) is shown in parenthesis.

Index Properties	
Bridge File Number	98765
Contract ID	ID
County	Washington(Johnson)
Design Team	Iowa DOT
FRA Number	FRA #
Letting Date	Jan 01 2000
PIN	PIN
Project Directory	0123456789
Project Location Line 1	Location
Project Location Line 2	Location
Project Location Line 3	Location
Project Number	NHSX-218-3(090)-3H-92
ROW Project Number 1	12345
ROW Project Number 2	56478
ROW Project Number 3	98765
Work Type	PPCB Bridge

Sheet Numbering Controls	
Automatic Naming of	On
Increment	1
Inherit Naming Rule	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	Off
Start Number	1
Total Sheets Count	14

Page 19 of 21

The image below is showing the Sheet Index Properties and the data used for the detail plan sheets specific to “Project Number Primary County”, Washington Co. Design 1324. This is used for the Title Block and Sheet Border Text Fields.

General

Folder NameWashington Design 1324

Folder Properties

Bridge Design TeamJS\PES\JM

Bridge Project NumberNHSX-218-3(090)-3H-92

CountyWashington

Cross Section Road NameUS 218

Design Number1324

Design TeamIowa DOT

End Spans35'-9"

FHWA or Asset ID Number604570

Interior Span51'-6"

Plan Sheet DescriptionDescription

Skew and Direction15 Degree LA

Station38+04.00

Turn-in DateFeb. 2024

Type and Size of Structure 1123'-0" x 40'-0" Pretensioned

Type and Size of Structure 2Prestressed Concrete Beam Bridge

Sheet Numbering Controls

Automatic Naming of SheetOn

Increment1

Inherit Naming Rule From POff

Number of Digits1

Sheet Number Prefix

Sheet Number Suffix

Show Leading ZeroOn

Start Number1

Total Sheets Count1

The image below is showing the Title Block and Sheet Border for the Project Number County entry, actively reading data from the Sheet Index “County” field.

Design For 15 Degree LA

123'-0" x 40'-0" Pretensioned

Prestressed Concrete Beam Bridge

35'-9" End Spans51'-6" Interior Span

Bridge Plan Sheet Description/Title

STA. 38+04.00 (US 218)Turn-in Date: Feb. 2024

Washington County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 1324Design Sheet No. 1 of 1FHWA No. 604570

Washington COUNTY

PROJECT NUMBER NHSX-218-3(090)-3H-92

SHEET NUMBER V.14

The image below is showing the Sheet Index Properties and the data used for the detail plan sheets specific to Johnson Co. Design 1424. Since the Project Number is for Washington County, and the Johnson County Design is part of the Washington County Project, then Washington is in parenthesis only on the Johnson County detail plan sheets. This is used for the Title Block and Sheet Border Text Fields.

General	
Folder Name	Johnson Design 1424
Folder Properties	
Bridge Design Team	JS\PES\JM
Bridge Project Number	NHSX-218-3(090)-3H-92
County	Johnson (Washington)
Cross Section Road Name	US 218
Design Number	1424
Design Team	Iowa DOT
End Spans	85'-9"
FHWA or Asset ID Number	604900
Interior Span	91'-6"
Plan Sheet Description	Description
Skew and Direction	15 Degree LA
Station	124+92.00
Turn-in Date	Feb. 2024
Type and Size of Structure 1	263'-0" x 40'-0" Pretensioned
Type and Size of Structure 2	Prestressed Concrete Beam Bridge
Sheet Numbering Controls	
Automatic Naming of Sheet	On
Increment	1
Inherit Naming Rule From Parent	Off
Number of Digits	1
Sheet Number Prefix	
Sheet Number Suffix	
Show Leading Zero	On
Start Number	1
Total Sheets Count	1

The image below is showing the Title Block and Sheet Border with a multiple county entry, actively reading data from the Sheet Index "County" field.

Design For 15 Degree LA 263'-0" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge 85'-9" End Spans 91'-6" Interior Span Bridge Plan Sheet Description/Title STA. 124+92.00 (US 218) Turn-in Date: Feb. 2024 Johnson (Washington) County IOWA DEPARTMENT OF TRANSPORTATION Design No. 1424 Design Sheet No. 1 of 1 FHWA No. 604900		
Johnson (Washington) COUNTY	PROJECT NUMBER NHSX-218-3(090)-3H-92	SHEET NUMBER V.13