



Florida Department of
TRANSPORTATION

Final As-Built Plans Using BlueBeam

**Office of Construction
Final Estimates**

Updated: February 19, 2018

Overview of Discussion Topics:

- [Training Help and FAQ](#)
- [Toolbars, Views, Search, Panels](#)
- [Extract pages](#)
- [Plan Components](#)
- [Add Text](#)
- [Layers](#)
- [Child Layers](#)
- [Properties, Lock Markups, Subject, Construction Remarks](#)
- [Cloud Tool](#)
- [Insert page](#)
- [Stamps](#)
- [Measure Tools](#)
- [Embed back-up documentation](#)
- [Flattening and Unflattening markups](#)
- [Markups after DFEO Review](#)
- [Check Mark](#)
- [Summary of Markups](#)
- [As-Built Signature Sheet](#)
- [Digital Signature/Certification](#)
- [DFEO Markup and Validation](#)

The screenshot shows the top portion of the FDOT Construction website. On the left is a vertical navigation menu with the following items: **Office Resources**, About us, Divisions, Documents & Publications, Programs & Services, Meetings & Events, **Most Requested**, and Active Contracts. The main content area features a **Welcome** message, a horizontal navigation bar with links for **Construction Support**, **Final Estimates**, **Training** (highlighted with a red box), and **Wage Rates**, and a **News** section with two items: **DCE Memo 02-18: Test Pile Location Adjustment** (posted January 31, 2018) and **Simple Digital Signature Instructions** (posted January 9, 2018).

Additional help/
training tools

Office of Construction

Training



Topics

Construction Training & Qualification Program (CTQP)

[CTQP Information & Providers](#)

[Reduced Cost CTQP Training for Small Businesses](#)

[CTQP Website](#)

[CTQP's Technical Review Teams \(TRT\)](#)

[Sample TRT Meeting Notice DOT Users Only](#)

General Information

[Construction Training Manual \(CTQM\)](#)

[District Construction Training Administrators](#)

[Training Related Information](#)

[Meeting Minutes or Training Memos](#)

[Schedules \(Construction Training\)](#)

[Training Video Shorts](#)

[CBT Request Form](#)

[Trainee Privacy Statement](#)

Office of Construction / Training

Training Video Shorts



Alternate Contracting

Aggregate

[AASHTO T2 Aggregate Sampling](#) [AASHTO T248 Reduction of Aggregate Samples](#)

Asphalt and Concrete Paving

Contract Modifications

Contractor Past Performance Rating

Contractor Prequalification

Drainage and Environmental

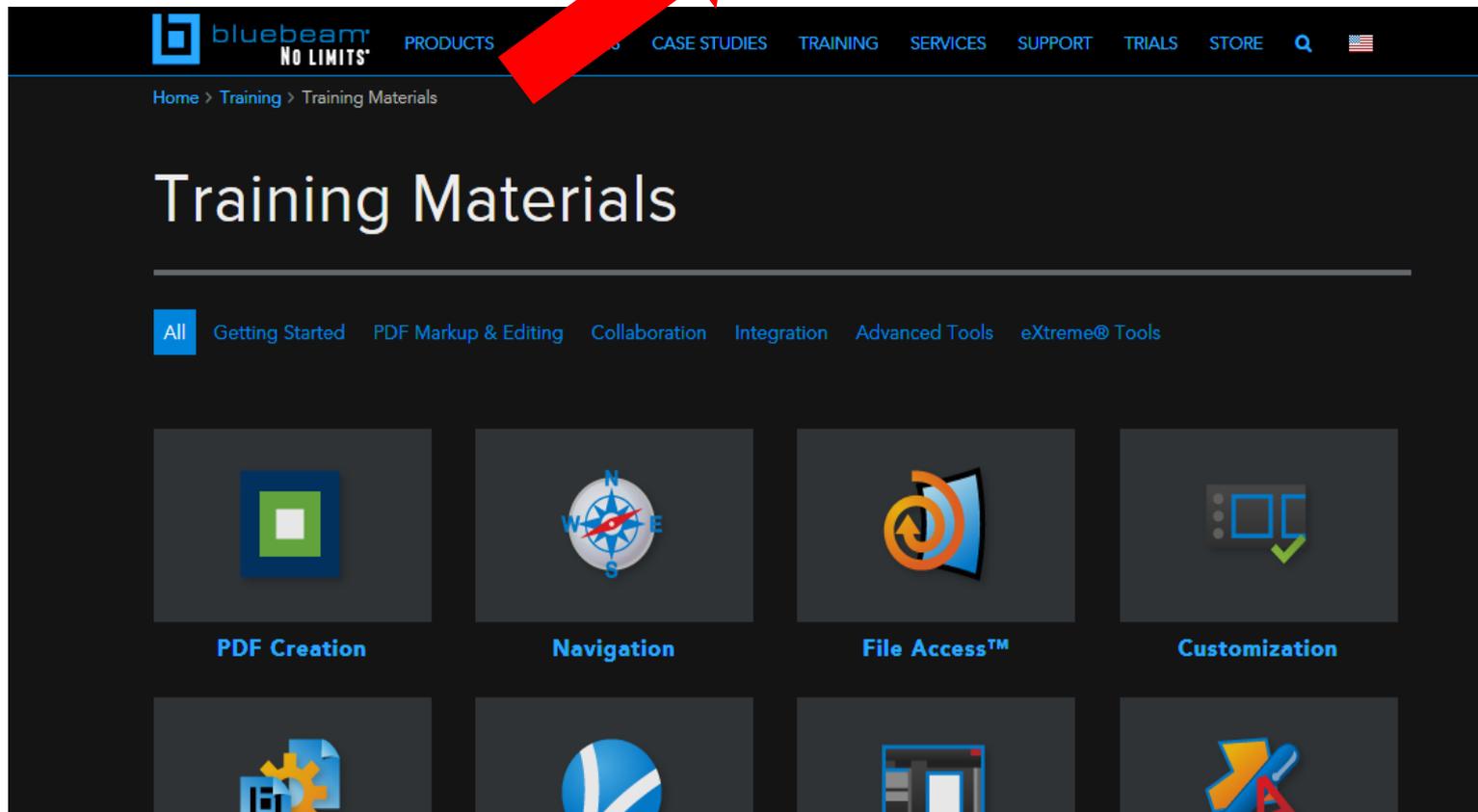
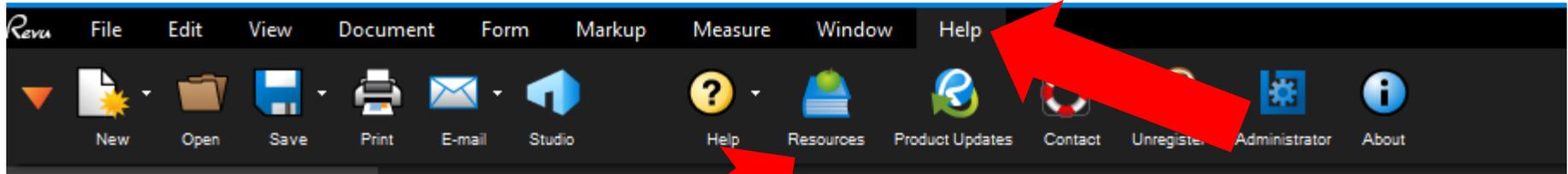
[Forterra Pipe Production](#)

Final Estimates

[BlueBeam Training](#) [FAQ](#)

Frequently Asked Questions

BlueBeam: Help/Resources



Word Search (OCR)

The screenshot shows the Revu software interface. The 'Document' menu is highlighted with a red box. The OCR dialog box is open, showing the following settings:

- Recognition Languages: English
- OCR Configuration:
 - Correct Skew
 - Detect Orientation
 - Detect Text in Pictures and Drawings
 - Max Vector Size: 36 pt
 - Rotate Markups
 - Skip Vector Pages
 - Page Chunk Size: 1
 - Optimize for: CAD Drawings
- Page Range: Pages All Pages (1 - 8) of 8
- File [1 of 1] : 219843-1-52-01(Roadway)T2.pdf
- [Batch Page Range \(1-8\)](#)

Buttons: Add, OK, Cancel

Makes document word searchable.

CTRL + F

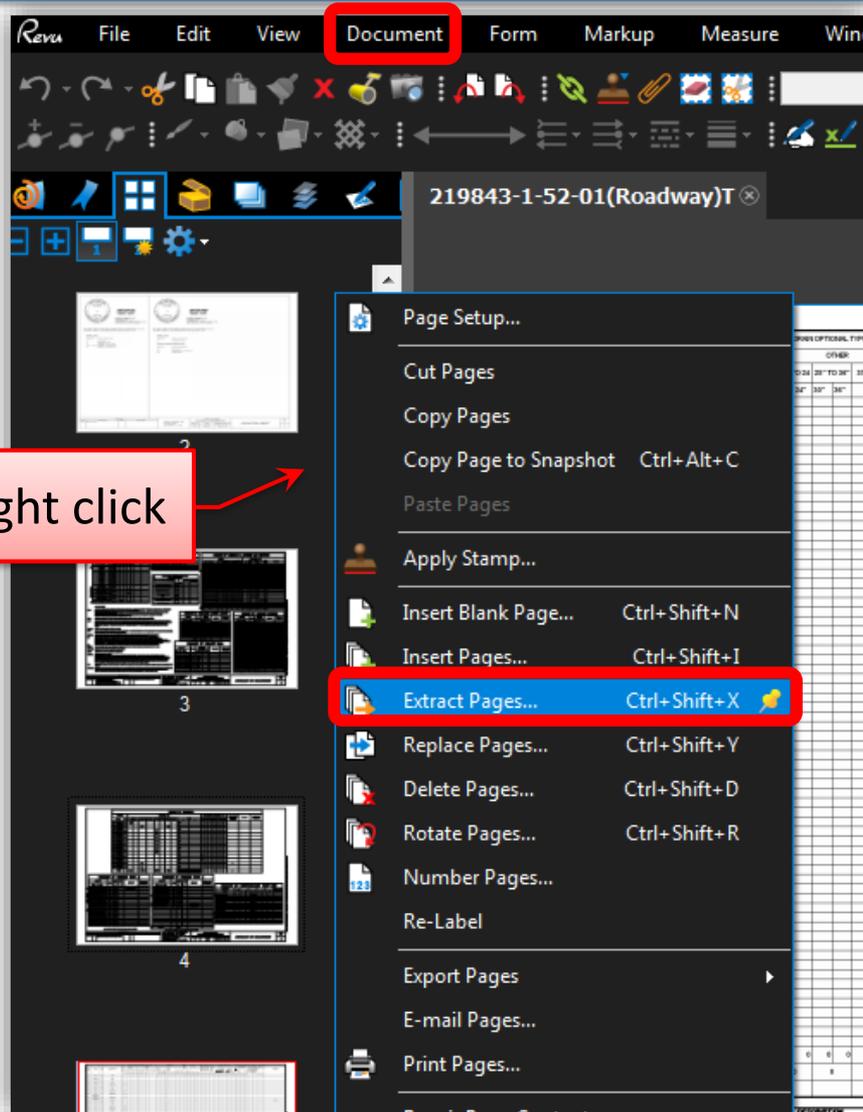
Search for a word or phrase in the document.

Extract Pages

Signed and sealed Contact Plans, and revisions to Contract Plans by the EOR(s) must be **extracted** in order to insert these into the Final As-Built plans.

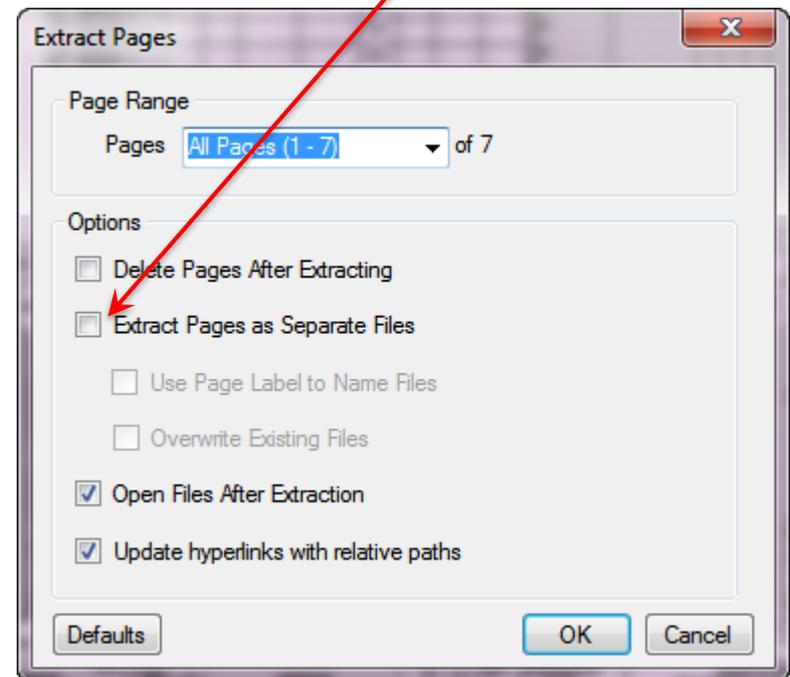
- Select “Document” or “Thumbnails”
- Right-click
- Select “Extract Pages”
- Select location to save file
- Copy or insert pages into the Final As-Built Plans set.
(See next slide.)

Extract Pages (Cont.)



Right click

Leave unchecked to save all extracted pages as one PDF file.

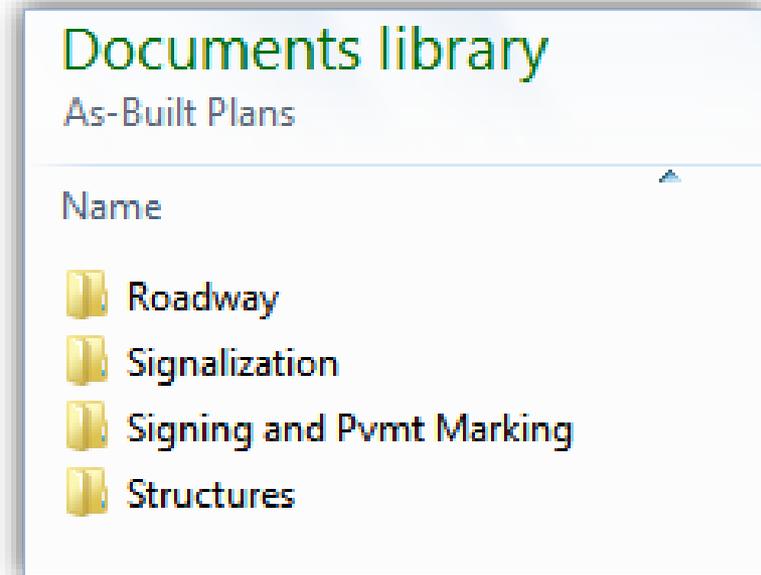


Plans Components

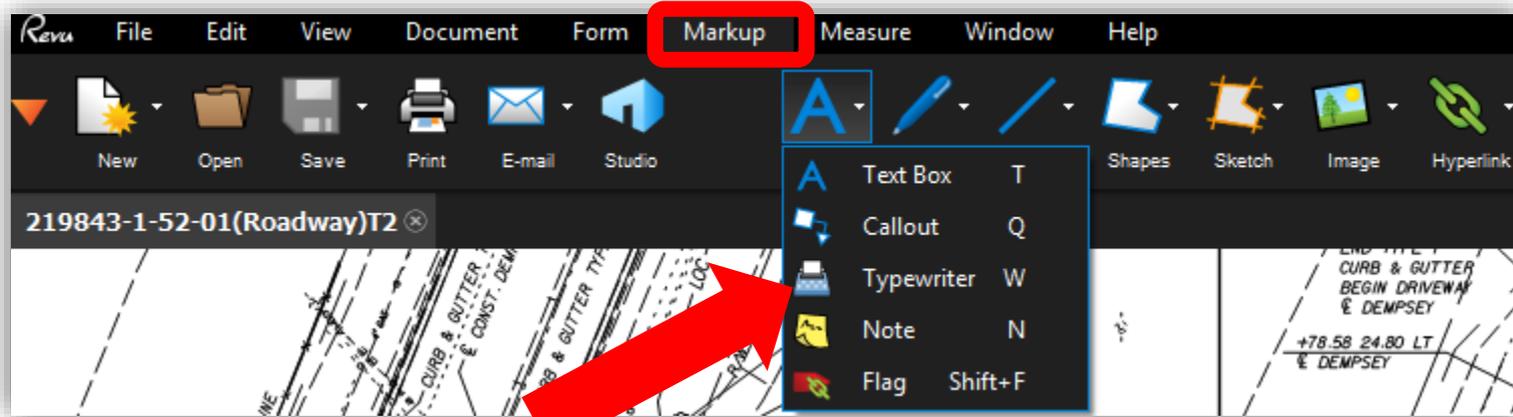
As-Built Plans will be saved into components.

If Contract Plans were not separated into components, this can be done by selecting the plans sheets, **extracting** and saving into separate folders.

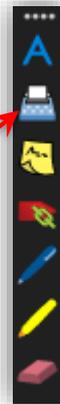
- Select “Document” or “Thumbnails”
- Right-click
- Select “Extract Pages”
- Select location to save file
(See previous slide.)



Insert Text



Or select the "Typewriter" icon on the side menu.



Using the "Text Box" will create a "box" that will block any text or lines behind the box, and will require more formatting.

Adjust the font type, size and color in the Properties panel. Follow the color convention per CPAM 5.12.

Layers

- **Note: Assign a Layer to the markups before locking**
 - In the Summary of Markups Panel, select the markup and Right-click
 - Select “Layer”
 - Assign the layer. Create New Layer if necessary.

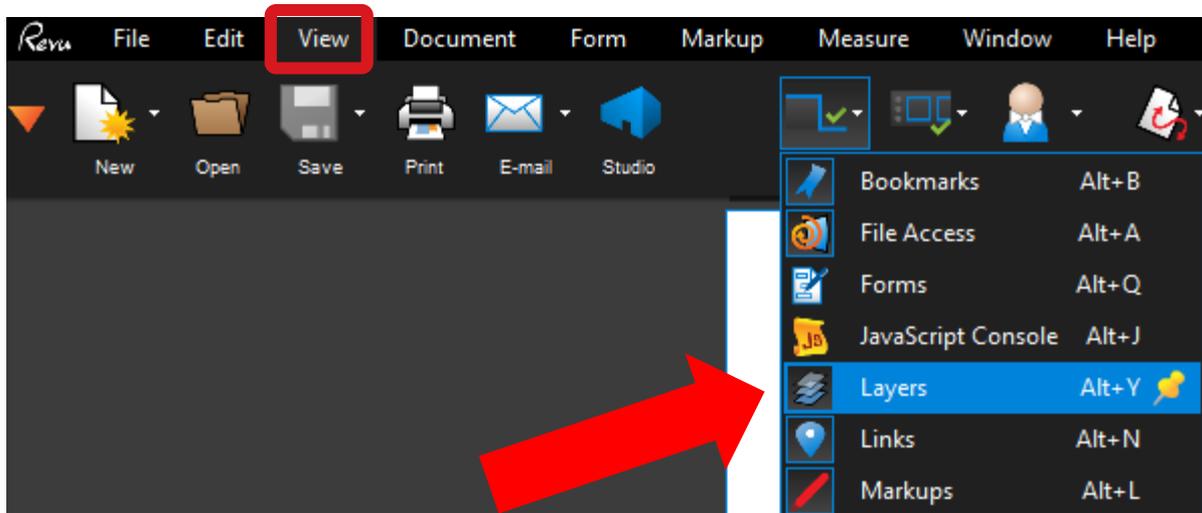
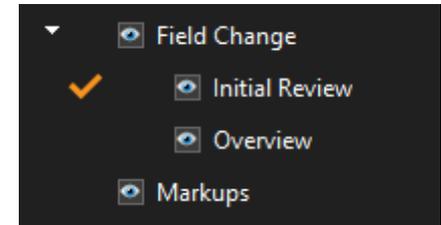
The screenshot shows a software interface with a table of markups. The first row is selected, and a context menu is open over it. The 'Layer' option is highlighted in the menu, and a sub-menu is open showing 'Create New Layer...'. A red box highlights the 'Layer' option, and another red box highlights 'Create New Layer...'. A red arrow points from a text box 'Right-click' to the selected row, and another red arrow points from a text box 'Create a New Layer' to the 'Create New Layer...' option.

Right-click

Create a New Layer

Child Layers

- **Child Layers:**
 - Child Layers can be used to organize markups. In this example, Initial Review and Overview are Child Layers for Field Change.

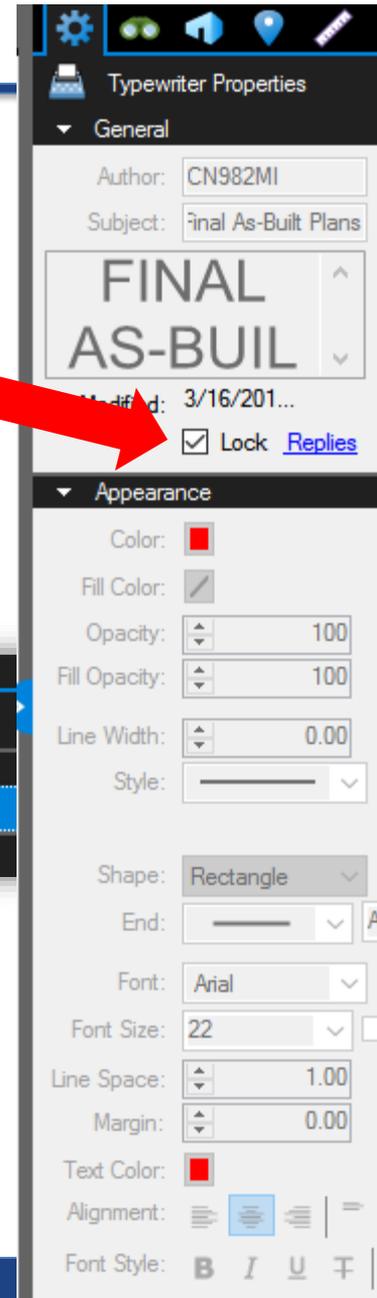


Lock Markups

- Lock the markups:
 - Avoid “accidental” deletions of markups
 - Can be done in the Properties panel or in the Markup panel

Subject	Page	Lock	Checkmark	Author	Date	Color
Checkmark	Page 1	<input type="checkbox"/>	<input type="checkbox"/>	CN982MI	8/24/2015 12:44:37 PM	■
Final As-Built Plans (1)						
Final As-Built Plans	Page 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CN982MI	8/24/2015 1:00:22 PM	■
Line (1)						

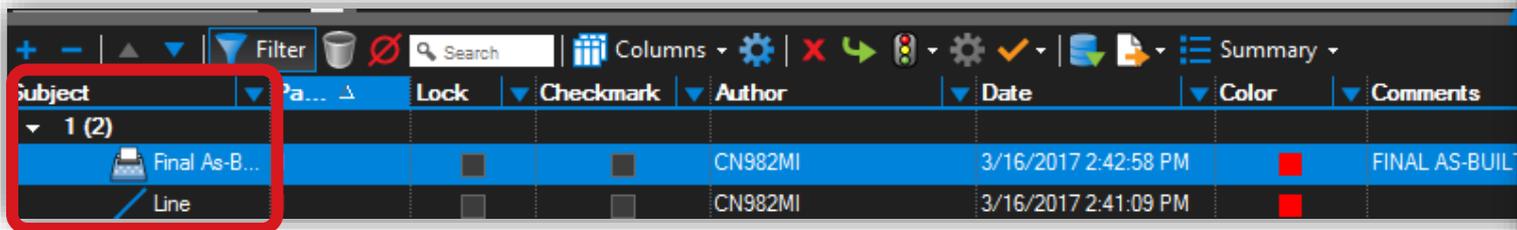
Note: Assign a Layer to the markups before locking



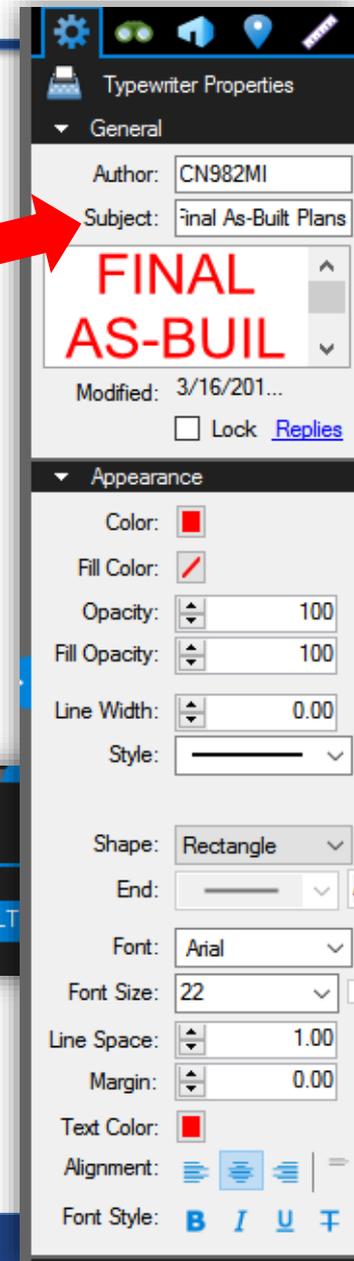
The screenshot shows the 'Typewriter Properties' panel with the 'General' section expanded. The 'Author' is 'CN982MI' and the 'Subject' is 'Final As-Built Plans'. The 'FINAL AS-BUILT' text is visible in a large font. The 'Modified' date is '3/16/201...'. The 'Lock' checkbox is checked, and a red arrow points to it from the left. The 'Appearance' section is also visible, showing various styling options like Color, Fill Color, Opacity, Line Width, and Font.

Subject

- Subject:
 - Allows to “name” the markup.
 - This is how the markup will be listed in the Summary of Markups (below).
 - Can be done in the Properties panel or in the Markup panel



subject	Pa...	Lock	Checkmark	Author	Date	Color	Comments
▼ 1 (2)							
Final As-B...				CN982MI	3/16/2017 2:42:58 PM	■	FINAL AS-BUILT
Line				CN982MI	3/16/2017 2:41:09 PM	■	



Typewriter Properties

General

Author: CN982MI

Subject: Final As-Built Plans

FINAL AS-BUILT

Modified: 3/16/201...

Lock [Replies](#)

Appearance

Color: ■

Fill Color: /

Opacity: 100

Fill Opacity: 100

Line Width: 0.00

Style: —

Shape: Rectangle

End: —

Font: Arial

Font Size: 22

Line Space: 1.00

Margin: 0.00

Text Color: ■

Alignment: [Left] [Center] [Right] [Justify]

Font Style: **B** *I* U ~~ABC~~

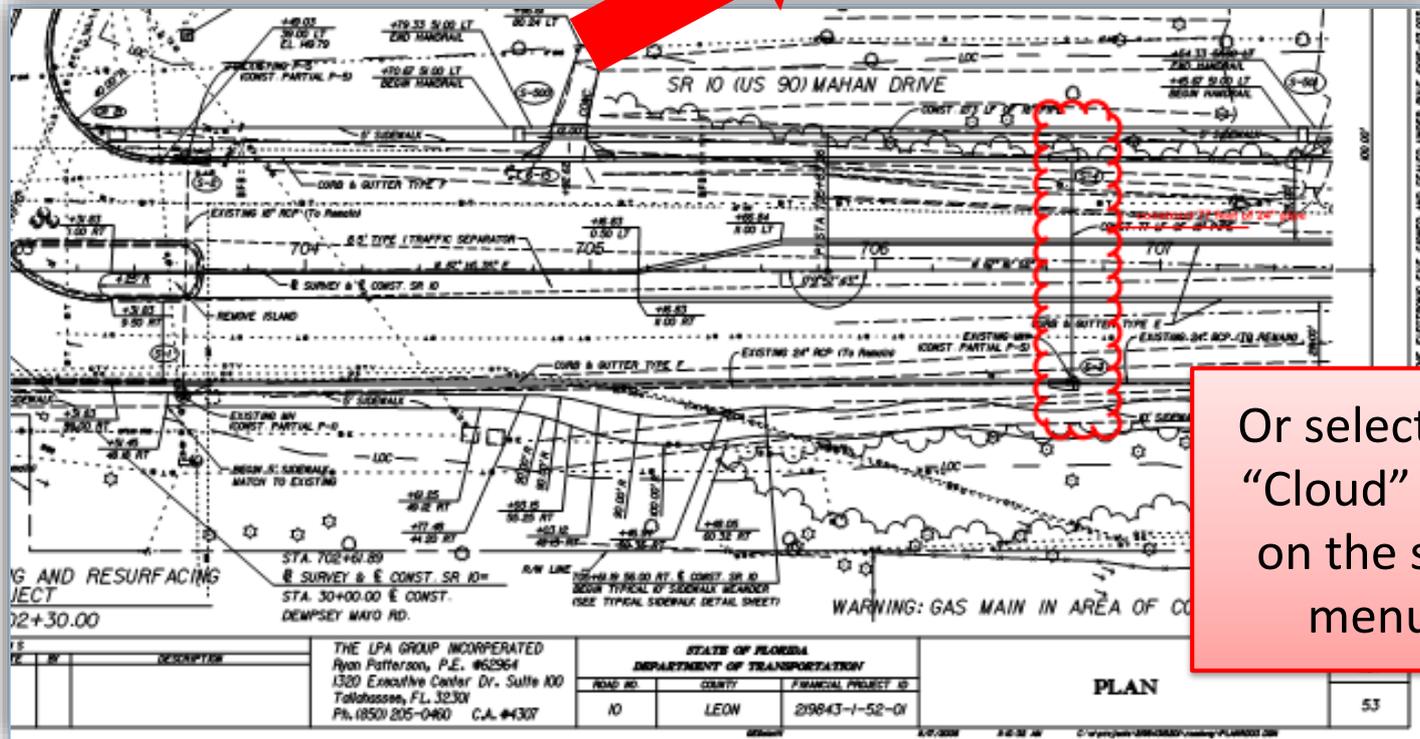
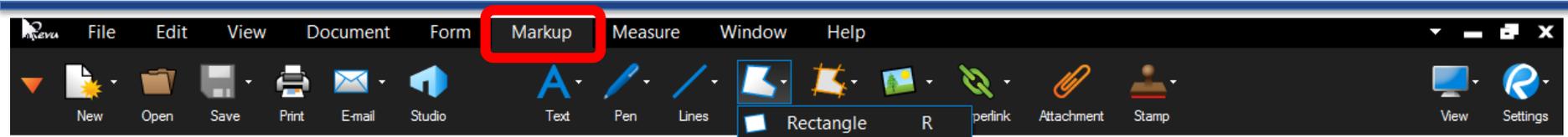
Construction Remarks and Sheet Description

- Can be done in the Properties panel or in the Markup panel

Author	Date	Color	Comments	Count	Layer	Construction Remarks	Sheet Description
CN982MI	8/24/2015 1:03:36 PM	■	Final "As-Built" Plans				
CN982MI	8/24/2015 1:04:40 PM	■				Strike through	Key Sheet
CN982MI	8/24/2015 1:05:36 PM	■					

The screenshot shows a software interface with a 'Line Properties' panel on the right. The 'General' section includes 'Author: CN982MI' and 'Subject: Line'. Below this is a 'Custom' section with two text input fields: 'Construction R...' containing 'Strike through' and 'Sheet Descripti...' containing 'Key Sheet'. Both fields are highlighted with red boxes. Below the 'Custom' section is a 'Layout' section with coordinate and length fields: X1: 6.9889 Inches, Y1: 1.7029 Inches, X2: 9.9943 Inches, Y2: 1.6883 Inches, and Length: 3.0055 Inches. At the top right of the interface, there are icons for settings, a ruler, a globe, a home button, and a location pin. A 'Markup' panel is partially visible on the left, showing a 'Strike through' option.

Insert Cloud

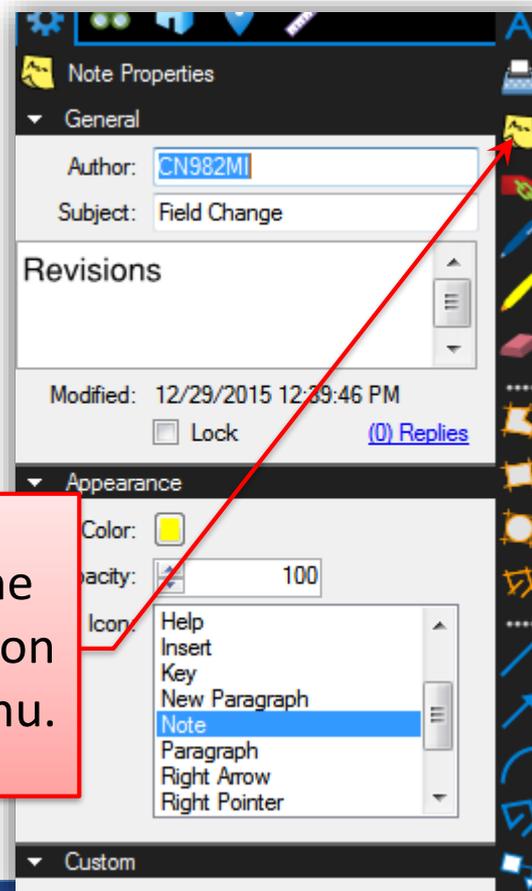
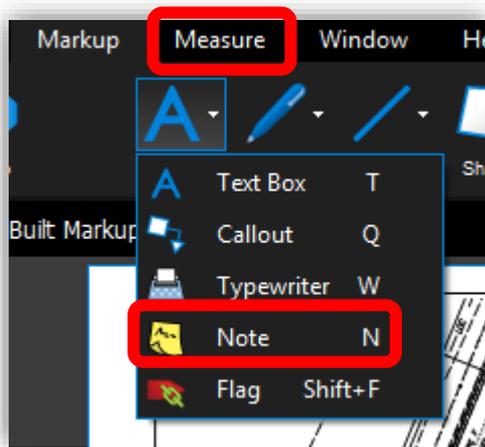


Or select the "Cloud" icon on the side menu.

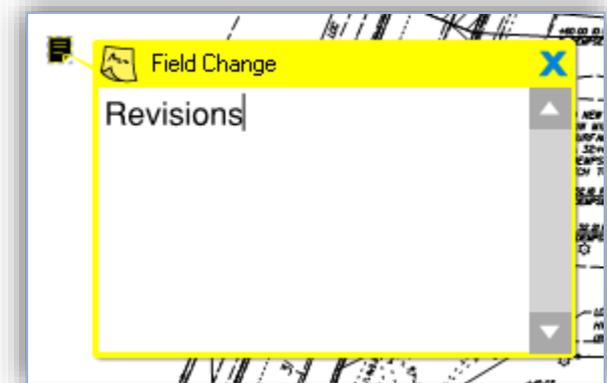


Notes (during internal review)

Electronic Notes may be added during an internal review. These notes must be removed from the Final As-Built Plan set before submission to the DFEO.



Or select the "Note" icon on the side menu.

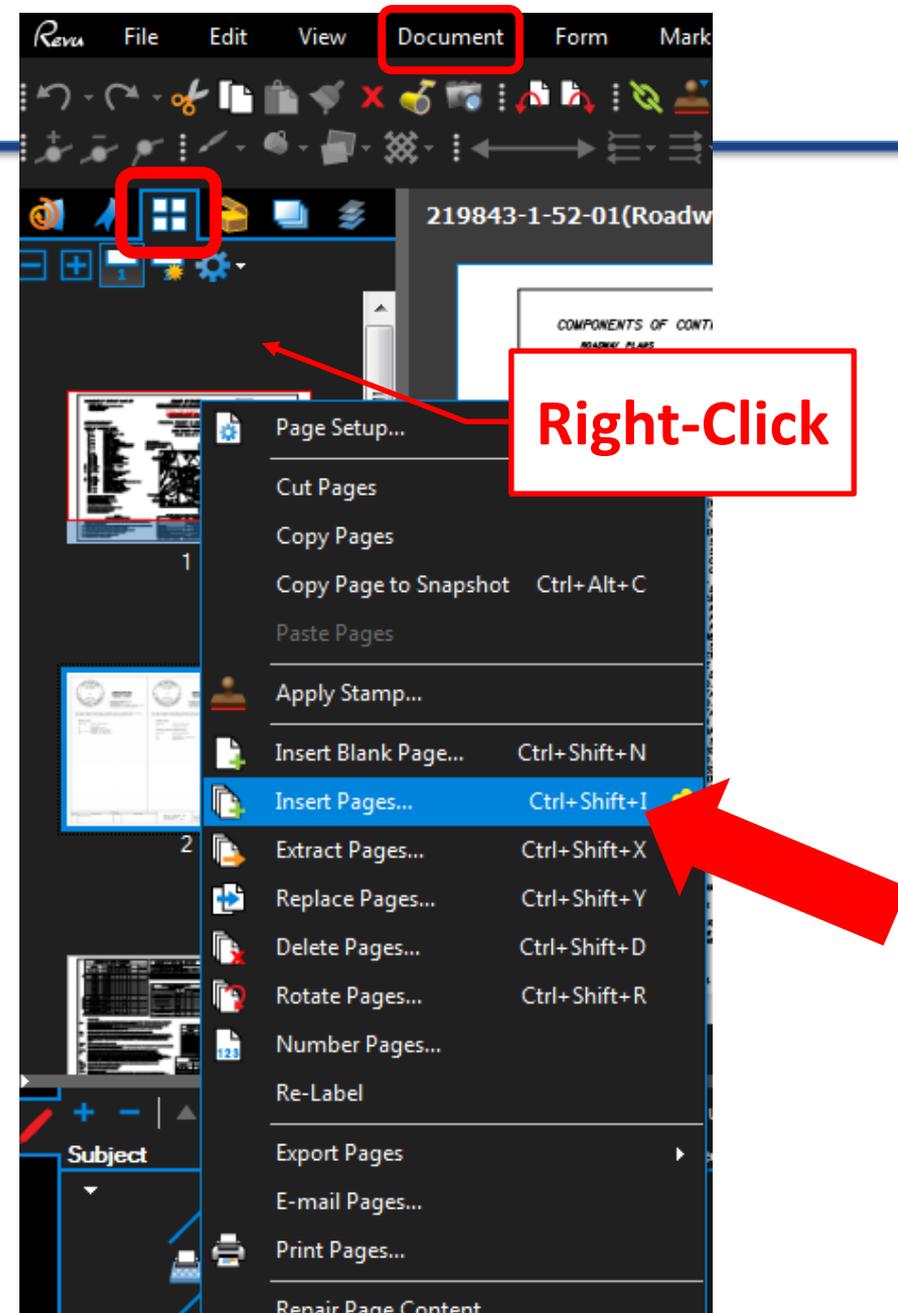


Insert Page

Follow these steps to insert sheets from Extracted files or the Final As-Built Signature Sheet into the Final As-Built plans:

Insert single or multiple pages:

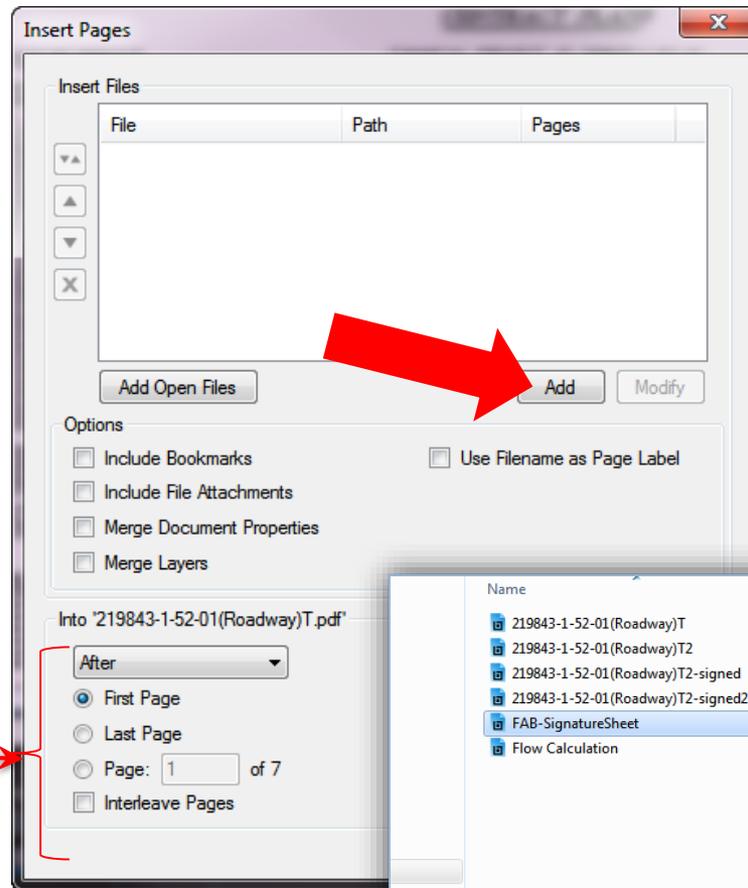
- Select “Document” or “Thumbnails”
- Right-click
- Select “Insert Pages”
- Select file to insert



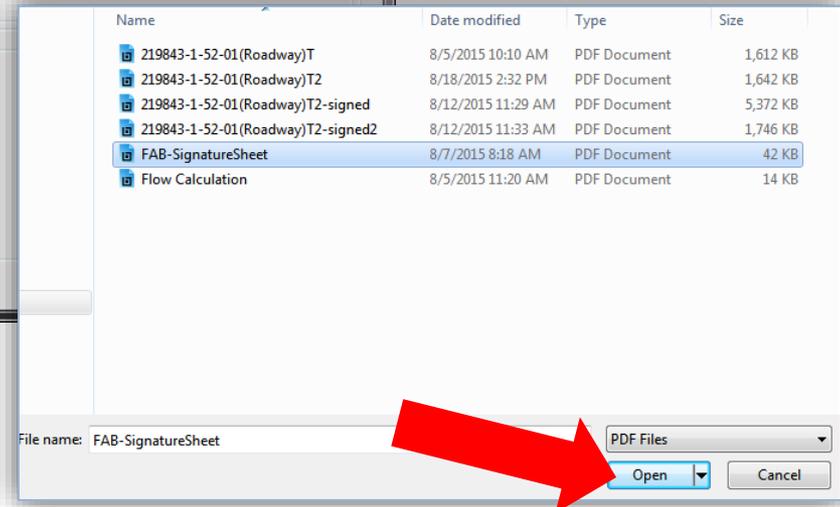
Insert Page (cont.)

Select file to insert

- Click “Add”
- Select file
- Click “Open”



Select the destination of the sheets to insert in the dialog box or “drag and move” the thumbnails to the correct location.

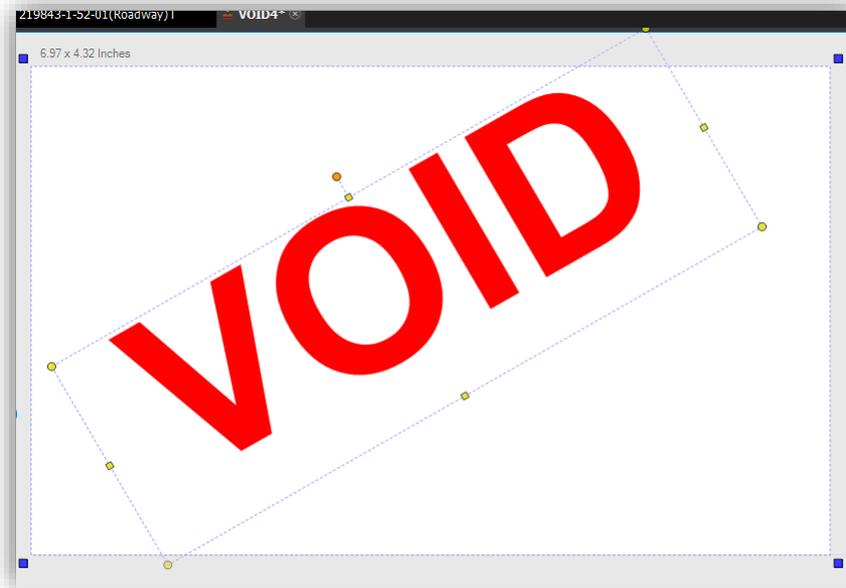


Create Stamp

The image shows a software interface with a dark theme. On the left, a vertical menu is open, displaying various stamp templates such as 'Seal.pdf', 'APPROVED', 'Date.pdf', 'Draft Print', 'EuropeanDate.pdf', 'For Review', 'Preliminary', 'Proprietary.pdf', 'Released.pdf', 'Revised.pdf', 'RightPointingTag.pdf', 'Watermark', 'Create Stamp...', 'Import Stamp...', and 'Change Stamp Folder...'. A red arrow labeled '2' points to the 'Create Stamp...' option. On the right, a horizontal toolbar contains icons for 'Text', 'Pen', 'Lines', 'Shapes', 'Sketch', 'Image', 'Hyperlink', 'Attach', and 'Stamp'. A red arrow labeled '1' points to the 'Stamp' icon. Below the toolbar, a 'Create Stamp' dialog box is open, showing fields for 'Subject' (VOID), 'Author' (CN982MI), 'Template' (Text), 'Width' (Text), 'Opacity' (Text with Border, Text with Date and Border, Text with Rounded Border), 'Rotation', and 'Blend Mode' (Normal (none)). The 'Text' option in the 'Width' dropdown is highlighted with a red box.

Create Stamp (Cont.)

- A new “Tab” will open
- Type the text for the stamp (Ex.: VOID)
- In the Properties Panel:
 - “Name” the Subject
 - Select the font, size, rotation angle, Subject, etc.
 - Lock



Text Box Properties

General

Author: CN982MI

Subject: VOID

Modified: 9/28/2015 11:29:22 AM

Lock [\(0\) Replies](#)

Appearance

Color:

Fill Color:

Opacity: 100

Fill Opacity: 100

Line Width: 0.00

Style:

Shape: Rectangle

End: Auto

Font: Arial

Font Size: 144 Auto

Line Space: 1.00

Margin: 0.00

Text Color:

Alignment:

Font Style:

Layout

X: 0.3190 Inches

Y: 2.9531 Inches

Width: 5.9861 Inches

Height: 4.3278 Inches

Rotation: 330 °

Options

Create Stamp (Cont.)

- In the Left Panel, select “Tool Chest”
 - Look up the recently used tools
 - Right-click
 - Select “Add Item to My Tools”
 - Select Item from the “My Tools” to reuse. No need to re-create the stamp. Can create any stamp.

219843-1-5

My Tools

Recent Tools

Duplicate

Change Colors...

Paint Format

Sequence

Action

Layer

Delete

Properties Mode

Add Item to My Tools

Add Properties to My Tools

My Tools

Recent Tools

SUMMARY OF DITCH PAVEMENT

LOCATION	RUMPAW	CONCRETE		REMARKS	FIELD BOOK REFERENCE
		THICKNESS	FINISH		
STA TO STA	7.0	P	F		
722012.01	11	P	F		
722014.01	11	P	F		
722016.01	11	P	F		
722018.01	11	P	F		
722020.01	11	P	F		
722022.01	11	P	F		
722024.01	11	P	F		
722026.01	11	P	F		
722028.01	11	P	F		
722030.01	11	P	F		
722032.01	11	P	F		
722034.01	11	P	F		
722036.01	11	P	F		
722038.01	11	P	F		
722040.01	11	P	F		
722042.01	11	P	F		
722044.01	11	P	F		
722046.01	11	P	F		
722048.01	11	P	F		
722050.01	11	P	F		
722052.01	11	P	F		
722054.01	11	P	F		
722056.01	11	P	F		
722058.01	11	P	F		
722060.01	11	P	F		
722062.01	11	P	F		
722064.01	11	P	F		
722066.01	11	P	F		
722068.01	11	P	F		
722070.01	11	P	F		
722072.01	11	P	F		
722074.01	11	P	F		
722076.01	11	P	F		
722078.01	11	P	F		
722080.01	11	P	F		
722082.01	11	P	F		
722084.01	11	P	F		
722086.01	11	P	F		
722088.01	11	P	F		
722090.01	11	P	F		
722092.01	11	P	F		
722094.01	11	P	F		
722096.01	11	P	F		
722098.01	11	P	F		
722100.01	11	P	F		
TOTAL	120				

SUMMARY OF PIPE FILL AND PLUG

STATION	LOCATION	TO	PIPE	REMARKS
722012.01	ST	11	12	
722014.01	ST	11	12	
722016.01	ST	11	12	
722018.01	ST	11	12	
722020.01	ST	11	12	
722022.01	ST	11	12	
722024.01	ST	11	12	
722026.01	ST	11	12	
722028.01	ST	11	12	
722030.01	ST	11	12	
722032.01	ST	11	12	
722034.01	ST	11	12	
722036.01	ST	11	12	
722038.01	ST	11	12	
722040.01	ST	11	12	
722042.01	ST	11	12	
722044.01	ST	11	12	
722046.01	ST	11	12	
722048.01	ST	11	12	
722050.01	ST	11	12	
722052.01	ST	11	12	
722054.01	ST	11	12	
722056.01	ST	11	12	
722058.01	ST	11	12	
722060.01	ST	11	12	
722062.01	ST	11	12	
722064.01	ST	11	12	
722066.01	ST	11	12	
722068.01	ST	11	12	
722070.01	ST	11	12	
722072.01	ST	11	12	
722074.01	ST	11	12	
722076.01	ST	11	12	
722078.01	ST	11	12	
722080.01	ST	11	12	
722082.01	ST	11	12	
722084.01	ST	11	12	
722086.01	ST	11	12	
722088.01	ST	11	12	
722090.01	ST	11	12	
722092.01	ST	11	12	
722094.01	ST	11	12	
722096.01	ST	11	12	
722098.01	ST	11	12	
722100.01	ST	11	12	
TOTAL				

SUMMARY OF DOWN EXCAVATION (TRUCK MEASUREMENT)

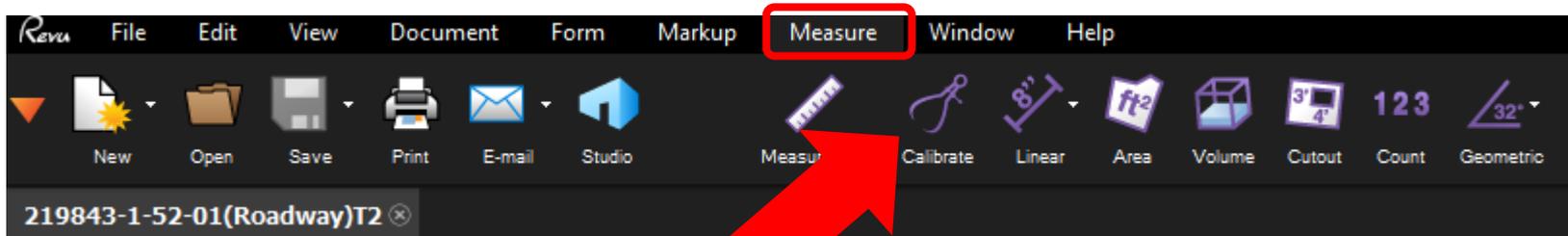
EXIST FOOT POND ABANDONMENT	OF	REMARKS	FIELD BOOK REFERENCE
Existing Pond Fill Volume	3.50M		
Existing Pond Excavation	2.50M		
Fill Adjustment (1.25/1)	2.00		
Total Adjustment (1.25/1)	1.00M		
Borrow Location	120M		

SUMMARY OF PED/BIKE PICKET

LOCATION	SIZE	PICKET MATERIAL	REMARKS
STA TO STA	P	F	
722012.01	11	12	
722014.01	11	12	
722016.01	11	12	
722018.01	11	12	
722020.01	11	12	
722022.01	11	12	
722024.01	11	12	
722026.01	11	12	
722028.01	11	12	
722030.01	11	12	
722032.01	11	12	
722034.01	11	12	
722036.01	11	12	
722038.01	11	12	
722040.01	11	12	
722042.01	11	12	
722044.01	11	12	
722046.01	11	12	
722048.01	11	12	
722050.01	11	12	
722052.01	11	12	
722054.01	11	12	
722056.01	11	12	
722058.01	11	12	
722060.01	11	12	
722062.01	11	12	
722064.01	11	12	
722066.01	11	12	
722068.01	11	12	
722070.01	11	12	
722072.01	11	12	
722074.01	11	12	
722076.01	11	12	
722078.01	11	12	
722080.01	11	12	
722082.01	11	12	
722084.01	11	12	
722086.01	11	12	
722088.01	11	12	
722090.01	11	12	
722092.01	11	12	
722094.01	11	12	
722096.01	11	12	
722098.01	11	12	
722100.01	11	12	
TOTAL			

VOID

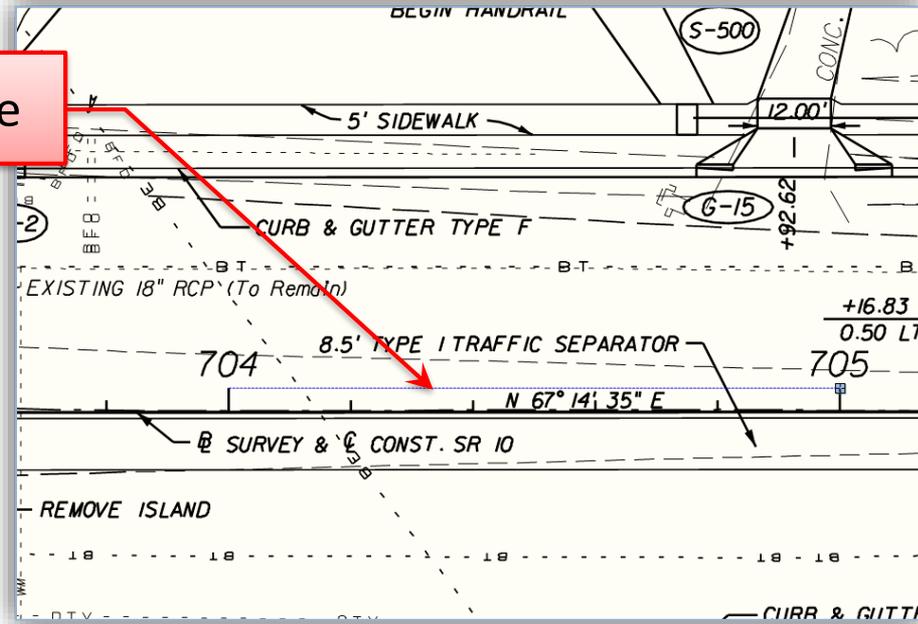
Measure



**NOTE: Calibrate before using these tools.
If measuring on sheet with a
different scale, calibrate again.**

Measure: Calibrate

1. Select a known distance



2. Verify and enter desired number of decimal places.

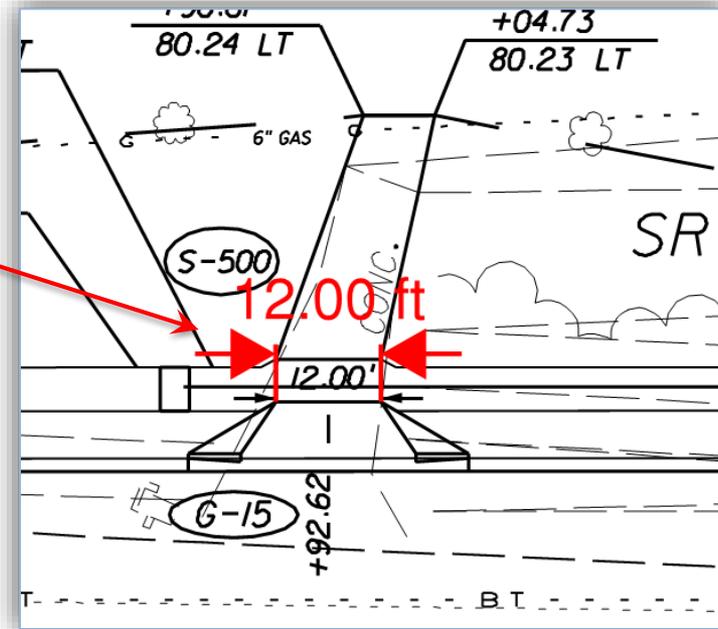
The screenshot shows a software dialog box titled "Calibration". It contains the following elements:

- Text: "Enter measurement between the two points."
- Input field: Contains the text "100.00 ft".
- Unit dropdown: Set to "ft".
- Text: "(Measured 2.50 in)".
- Buttons: "OK" and "Cancel".

A red arrow from the text box "2. Verify and enter desired number of decimal places." points to the input field.

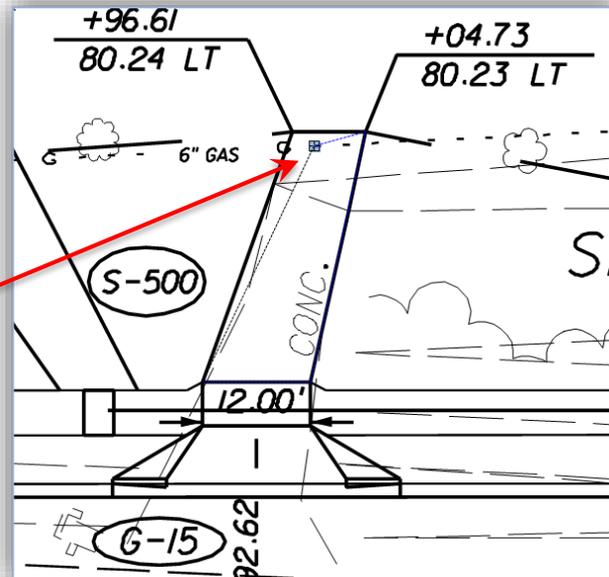
Measure: Linear Distance

“Snap” the cursor to select the distance to be measured.

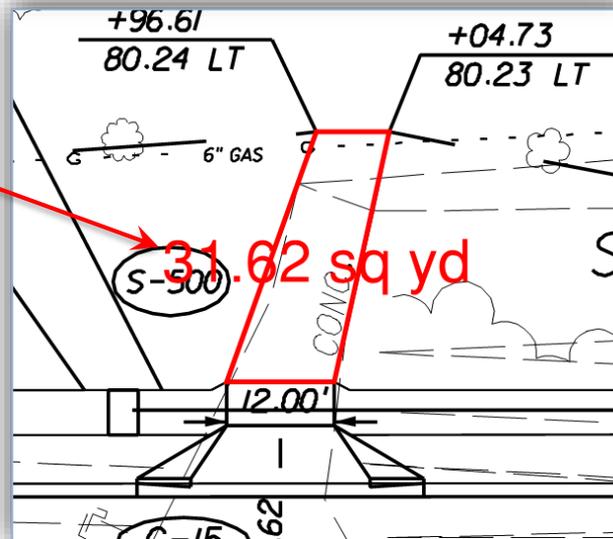


Measure: Area

1. "Snap" the cursor to the area to be measured.



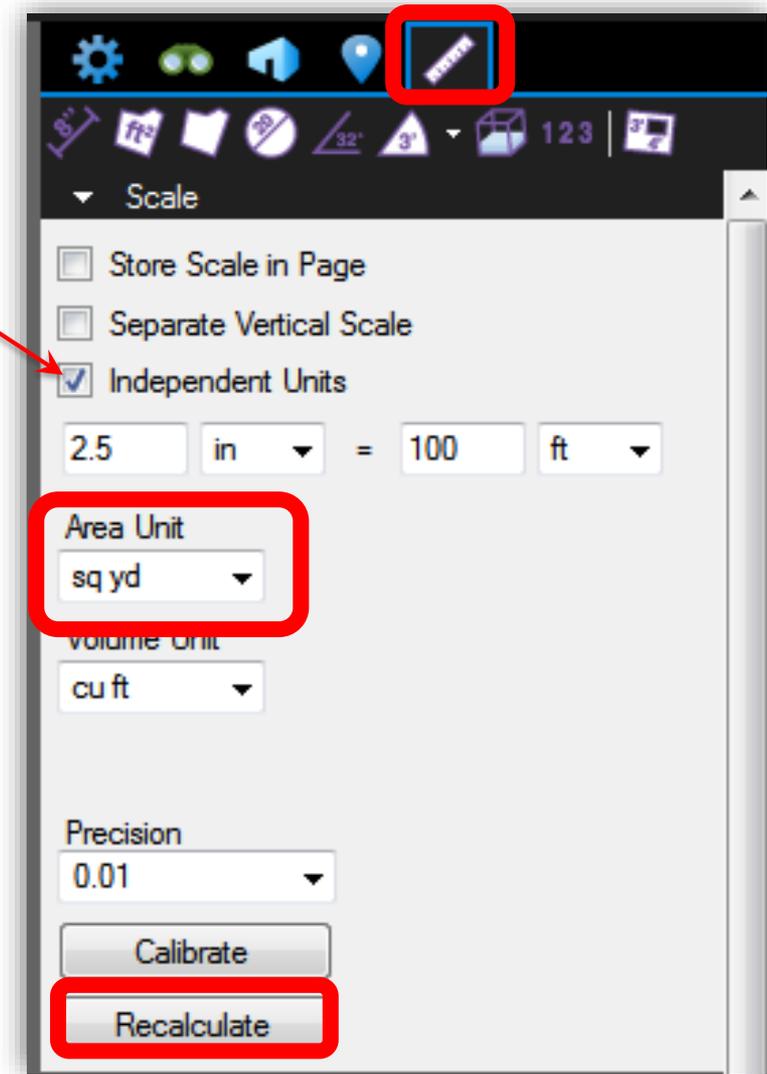
2. Once done, press "Enter".



Measure: Area Units

In the Properties Panel:

- Ensure “Independent Units” is checked.
- Can change units and Recalculate.



Embed Backup Documentation (Cont.)

The image shows a three-pane software interface. The left pane displays a document grid with columns for 'U- END WALL', 'SOO', and 'REMARKS'. A red arrow points to a blue icon in the grid, with a callout box labeled 'Subject'. The middle pane shows 'File Attachment Properties' for 'Flow Calculation.pdf', with fields for 'Author: CN982MI', 'Subject: Calcs', 'Modified: 8/24/2015 2:38:01 PM', and 'File: Flow Calculation.pdf'. A red arrow points from the 'Subject' field to the 'Subject' field in the middle pane. The right pane shows a 'File Attachments' list with a table:

Name	Location
Flow Calculation.pdf	Page 5

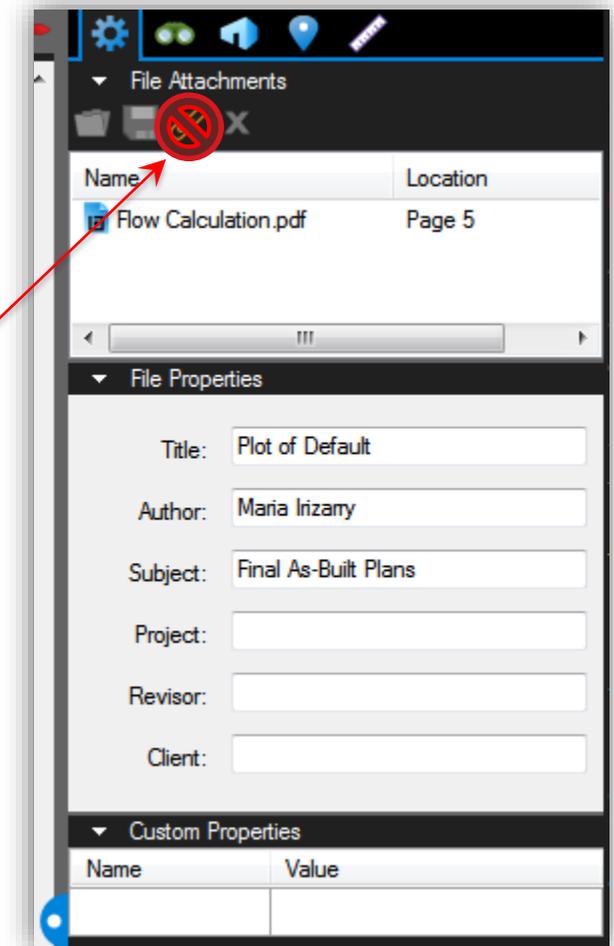
A red arrow points from this table to a callout box labeled 'List of embedded files'. Below the table is a 'File Properties' section with fields for Title, Author, Subject, Project, Revisor, and Client. A red arrow points from the 'Subject' field in the middle pane to the 'Subject' field in the 'File Properties' section. At the bottom of the middle pane, there is an 'Extract...' button with a red arrow pointing to it from a callout box labeled 'Open embedded file. Will open in a different tab.'

Embed Backup Documentation (Cont.)

Warning:

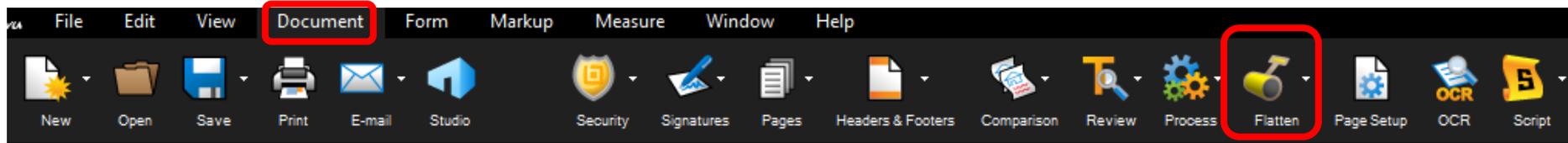
The “Attachment” option in the Properties panel allows adding a document. However, there will be no link to it and it will not be listed in the Markup panel, making it difficult for the reviewer to know that there is a document attached.

DO NOT USE



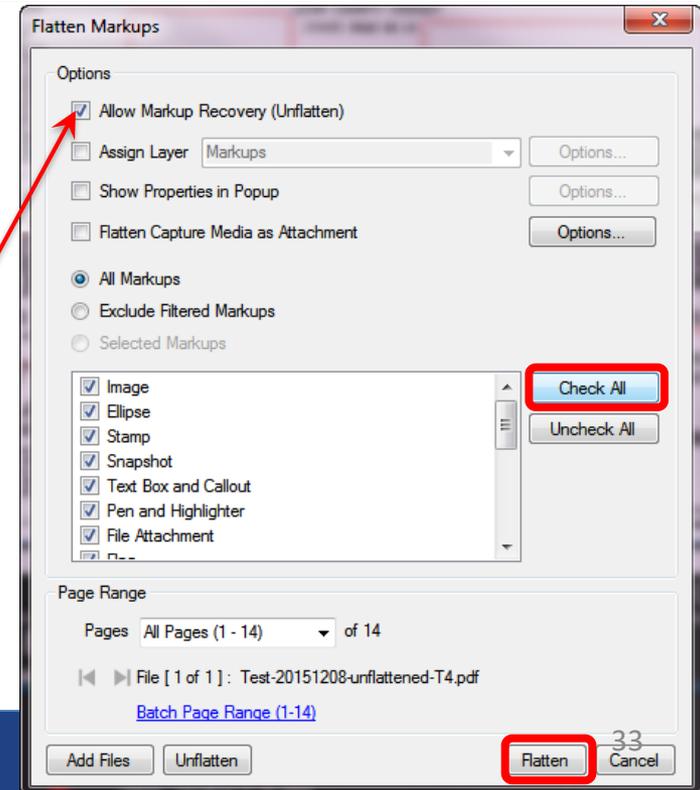
Before Signing and Sealing

- “Flatten” all changes/markups to the Final As-Built Plans set before digitally signing and sealing.
 - This protects the changes/markups that the RE is responsible for when digitally signing and sealing the Final As-Built Plans set.



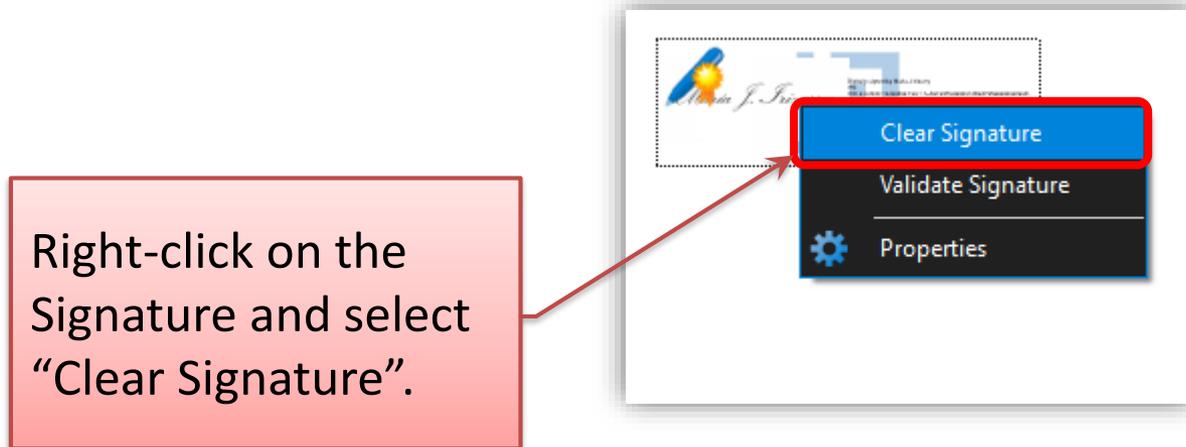
This will allow the RE to “Unflatten” the changes/markups incorporated included in the Final As-Built Plans set, before making any changes as directed by the DFEO.

- RE will be able to digitally sign and seal the Final As-Built Plans set before resubmitting to the DFEO.
- “Flatten” all markups before signing and sealing (again).



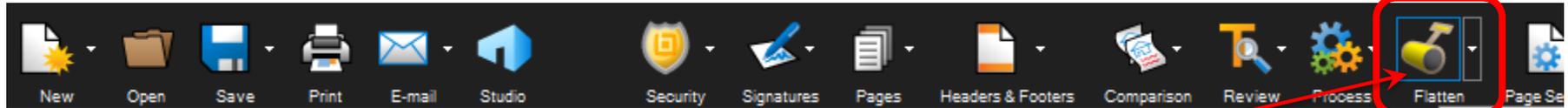
Revisions by the RE After DFEO Review

- If DFEO personnel identify errors or omissions in the Final As-Built Plans:
 - DFEO personnel will assign all markups to a new Layer and color convention, corresponding to their review type (i.e., initial review, etc.). (See **CPAM 5.12.**)
 - The DFEO will submit the Final As-Built Plans back to the RE.
 - Note that the markups by the DFEO will not be flattened. These markups will be listed in the Summary of Markups.
 - The RE will need to clear the digital signature before being able to make new markups.



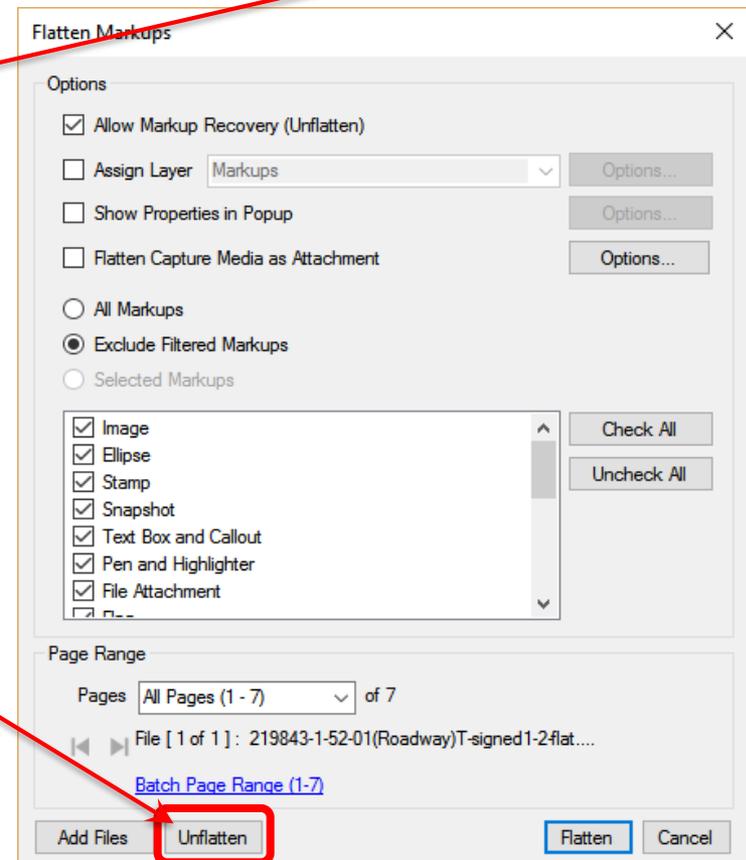
Revisions by the RE After DFEO Review (Cont.)

- How to unflatten:



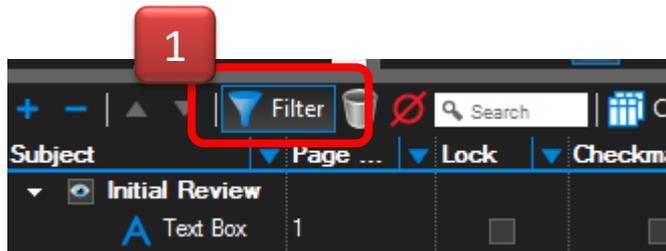
Select "Flatten"

Select "Unflatten".
All markups by the RO
will appear in the
Summary of Markups.

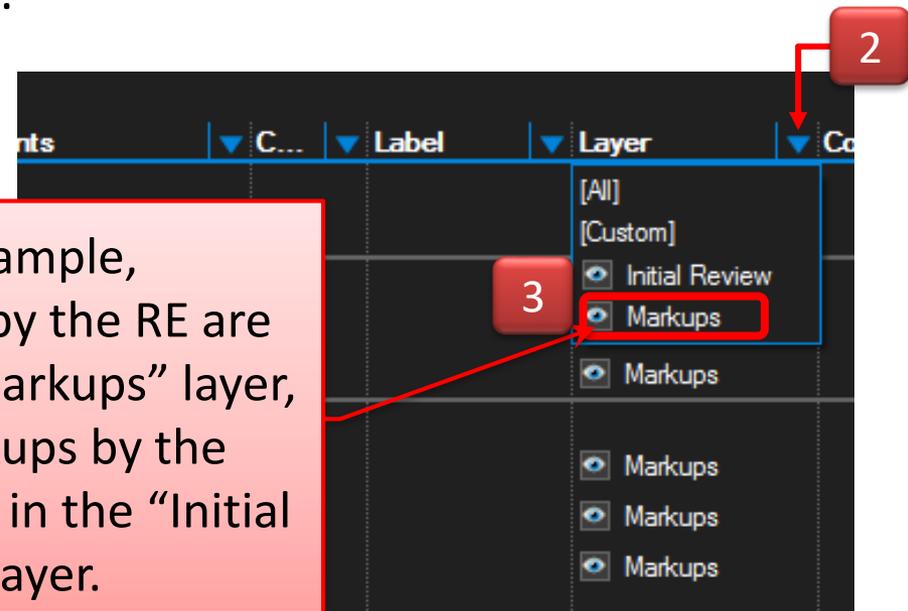


Revisions by the RE After DFEO Review (Cont.)

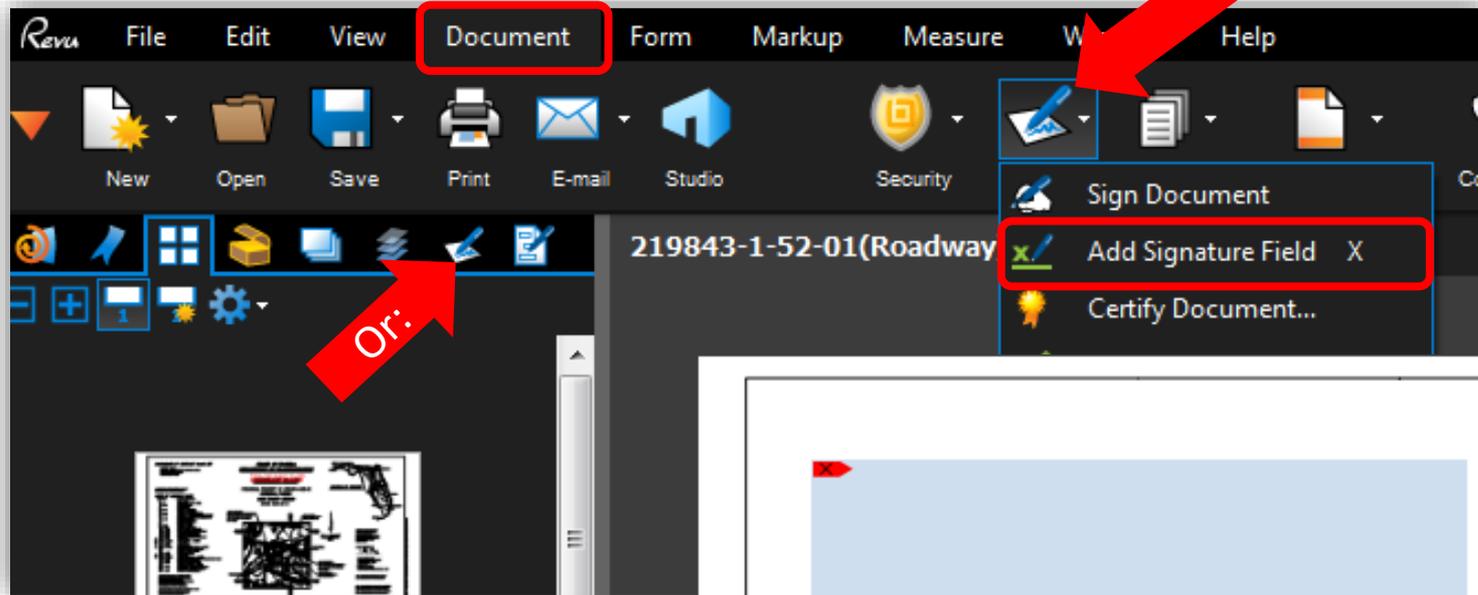
- RE will incorporate markups or correct errors, as necessary.
- Before digitally signing and sealing the Final As-Built Plans for re-submittal to the DFEO:
 - Flatten the markups by the RE only
 - Note: RE can chose to only flatten the markups he/she is responsible for. To do this, ensure RE/RO have a assigned a Layer to their markups.
 - Filter the Layers in the Summary of Markups by selecting the RO layer(s) that will be flattened.
 - Flatten the markups
- Digitally sign and seal the Final As-Built Plans and resubmit to DFEO.



In this example, changes by the RE are in the “Markups” layer, and markups by the DFEO are in the “Initial Review” layer.

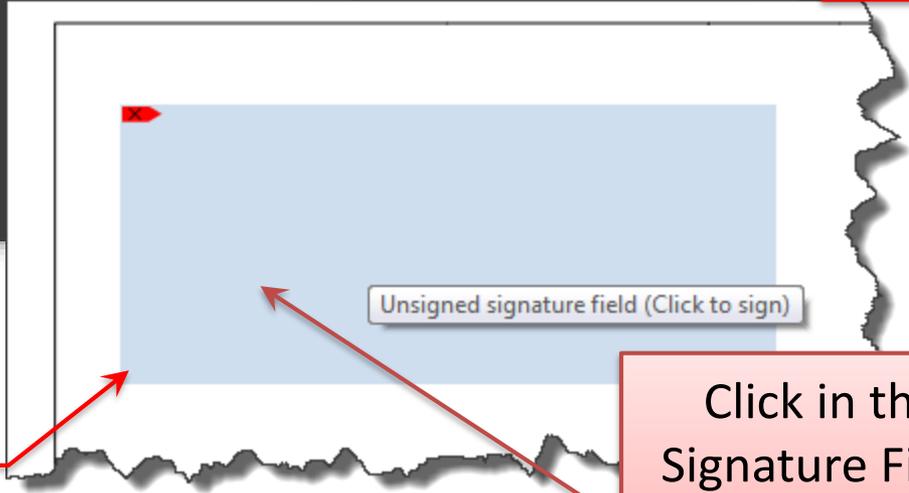


Document Certification



Add one (or multiple) Signature Field(s)

Drag the mouse to insert the signature block on the sheet.



Click in the Signature Field to digitally sign the document.

Or select "Certify Document"

Document Certification (Cont.)

Sign

Digital ID:
Maria J Irizarry View... New...

Password:
Log in

Signature Type

Digital Signature

Document Certification

Permitted changes after certifying:
Markups, fill in forms, and digital signatures
No changes allowed
Fill in forms and digital signatures

Reason: I have reviewed this document

Location:

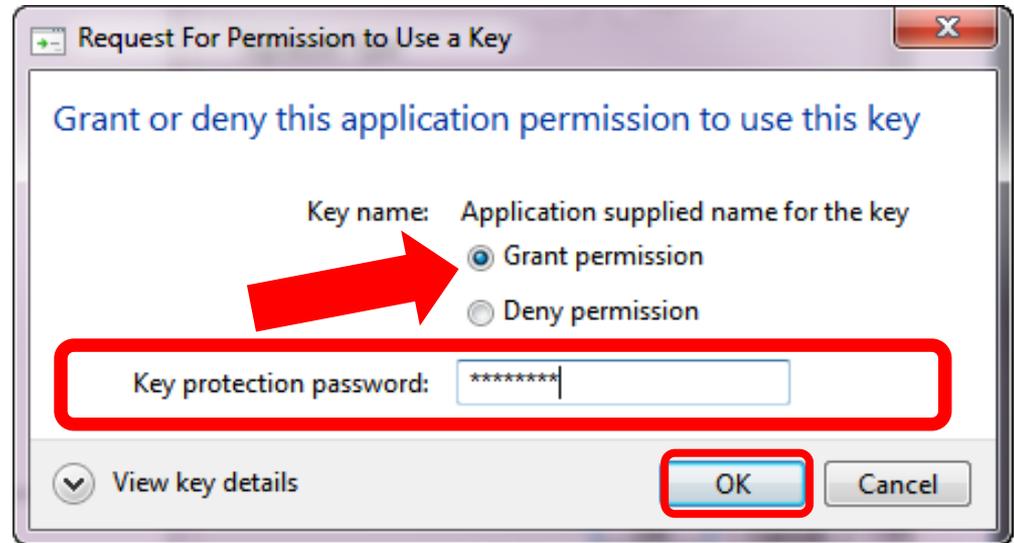
Contact Info:

OK Cancel

This will allow DFEO personnel to make markups as necessary.

Document Certification (Cont.)

- Select “Grant Permission”
- Enter the Key Protection Password.



Document Certification (Cont.)

Sign

Digital ID:
Maria J Irizarry View... New...

Password:
Log in

Signature Type
 Digital Signature
 Document Certification
Permitted changes after certifying:
Markups, fill in forms, and digital signatures

Options
Reason: I have reviewed this document
Location:
Contact Info: FDOT

Appearance
Standard Text Edit... New...

Maria J Irizarry
Digitally signed by Maria J Irizarry
DN: cn=Maria J Irizarry, o=FDOT, email=irizarry.maria@fdot.com, c=US
Reason: I have reviewed this document
Contact Info: FDOT
Date: 2018.08.07 13:04:13-0500

OK Cancel

User will be prompted to Save the file.

As-Built Signature Sheet

<p>THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:</p> <div style="background-color: #e0e0e0; height: 40px; width: 100%; margin-bottom: 5px;"></div> <p>PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.</p> <p>COMPANY NAME COMPANY ADDRESS CITY, STATE, ZIP CODE CERTIFICATE OF AUTHORIZATION: XXXXX NAME: P. E. NO. XXXXX</p> <div style="background-color: #e0e0e0; height: 50px; width: 100%; margin-top: 10px;"></div> <div style="background-color: #e0e0e0; height: 150px; width: 100%; margin-top: 10px;"></div>	<p>THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:</p> <div style="background-color: #e0e0e0; height: 40px; width: 100%; margin-bottom: 5px;"></div> <p>PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.</p> <p>COMPANY NAME COMPANY ADDRESS CITY, STATE, ZIP CODE CERTIFICATE OF AUTHORIZATION: XXXXX NAME: P. E. NO. XXXXX</p> <div style="background-color: #e0e0e0; height: 50px; width: 100%; margin-top: 10px;"></div> <div style="background-color: #e0e0e0; height: 150px; width: 100%; margin-top: 10px;"></div>																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #ffcc00;"> <th>Date</th> <th>Name</th> <th>Position (Title)</th> <th>Review Type</th> </tr> </thead> <tbody> <tr> <td colspan="4">RESIDENT OFFICE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td style="text-align: center;">▼</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td style="text-align: center;">▼</td> </tr> <tr> <td colspan="4">DISTRICT OFFICE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td style="text-align: center;">▼</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td style="text-align: center;">▼</td> </tr> </tbody> </table>		Date	Name	Position (Title)	Review Type	RESIDENT OFFICE							▼				▼	DISTRICT OFFICE							▼				▼
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SHEET NO.																													

Final As-Built Plans Signature Sheets are available for download at:
<http://www.fdot.gov/construction/eConstruction/AsBuiltPlans.shtm>

C:\Projects\CID-Statewide\06-0350-0315201\cmst\5104001.dwg

As-Built Signature Sheet

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

 Ashley W Anderson
Digitally signed by Ashley W Anderson
 DN: cn=32344, o=Florida Department of Transportation, ou=Florida Department of Transportation, email=ashley.anderson@fldot.com, c=US
 Reason: I am the author of this document
 Date: 01.08.2017 10:02:44-0500

PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

FLORIDA DEPARTMENT OF TRANSPORTATION
 605 SUWANNEE STREET
 TALLAHASSEE, FL 32303
 CERTIFICATE OF AUTHORIZATION: N/A
 ASHLEY ANDERSON, P. E. NO. 99999

This project was constructed in substantial compliance with these plans as provided by the Engineer of Record. These plans reflect "as-built" conditions and no changes were made to the plan sheets.

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

 Ashley W Anderson
Digitally signed by Ashley W Anderson
 DN: cn=32344, o=Florida Department of Transportation, ou=Florida Department of Transportation, email=ashley.anderson@fldot.com, c=US
 Reason: I am the author of this document
 Date: 01.08.2017 10:02:44-0500

PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ROADWAY ENGINEERS, INC.
 123 MAIN STREET
 TALLAHASSEE, FL 32303
 CERTIFICATE OF AUTHORIZATION: 12345
 ASHLEY ANDERSON, P. E. NO. 99999

The above named professional engineer shall be responsible for the following changes, indicated in redline revision, in accordance with Rule 61G15-23.004, F.A.C. This project was constructed in substantial compliance with these plans as provided by the Engineer of Record.

ROADWAY PLANS

SHEET NO.	DESCRIPTION OF CHANGE
1	PROJECT DETAILS
4-6	BASE THICKNESS CHANGED
SQ1-25	ADDED FINAL QUANTITIES
34	AS-BUILT OPTIONAL MATERIALS INDICATED
66	SIDEWALK REALIGNMENT

SIGNING & PAVEMENT MARKING PLANS

S2-S4	ADDED FINAL QUANTITIES
-------	------------------------

Procedures for digitally signing and sealing are described in **Rule 61G15-23, F.A.C.**
<https://www.flrules.org/gateway/ChapterHome.asp?Chapter=61G15-23>

Date	Name	Position (Title)	Review Type
RESIDENT OFFICE			
10/25/2017	JANE DOE	CBS	▼
10/25/2017	JOHN DOE	PA	▼
10/30/2017	JOE SMITH		QA
DISTRICT OFFICE			
04/15/2016	PETER PIPER	IA REVIEW	QC OTHER
07/05/2016	TOM THUMB	80% QC REVIEW	QC (INITIAL)

REVISIONS				ROADWAY ENGINEERS, INC. 123 MAIN STREET TALLAHASSEE, FL 32303 CERTIFICATE OF AUTHORIZATION: 12345	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			FINAL "AS-BUILT" SIGNATURE SHEET	SHEET NO. 2A
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					999	LEON	123456-1-52-01		

C:\Projects\CJD-Statewide\DW-4384\315201\cscs\SIGR001.dwg

As-Built Signature Sheet (Cont.)

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

 Ashley W Anderson
Digitally signed by Ashley W Anderson
 DN: cn=32303, o=STATE OF FLORIDA DEPARTMENT OF
 TRANSPORTATION, ou=FLORIDA DEPARTMENT OF
 TRANSPORTATION, postalCode=32303, email=ashley.a.anderson@fldot.com, c=US
 Date: 2018.11.08.14:46:00Z

PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

FLORIDA DEPARTMENT OF TRANSPORTATION
 605 SUWANNEE STREET
 TALLAHASSEE, FL 32303
 CERTIFICATE OF AUTHORIZATION: N/A
 ASHLEY ANDERSON, P. E. NO. 99999

This project was constructed in substantial compliance with these plans as provided by the Engineer of Record. These plans reflect "as-built" conditions and no changes were made to the plan sheets.

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

 Ashley W Anderson
Digitally signed by Ashley W Anderson
 DN: cn=32303, o=STATE OF FLORIDA DEPARTMENT OF
 TRANSPORTATION, ou=FLORIDA DEPARTMENT OF
 TRANSPORTATION, postalCode=32303, email=ashley.a.anderson@fldot.com, c=US
 Date: 2018.11.08.14:46:00Z

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ROADWAY ENGINEERS, INC.
 123 MAIN STREET
 TALLAHASSEE, FL 32303
 CERTIFICATE OF AUTHORIZATION: 12345
 ASHLEY ANDERSON, P. E. NO. 99999

The above named professional engineer shall be responsible for the following changes, indicated in redline revision, in accordance with Rule 61G15-23.004, F.A.C. This project was constructed in substantial compliance with these plans as provided by the Engineer of Record.

ROADWAY PLANS

SHEET NO.	DESCRIPTION OF CHANGE
1	PROJECT DETAILS
4-6	BASE THICKNESS CHANGED
SQ1-25	ADDED FINAL QUANTITIES
34	AS-BUILT OPTIONAL MATERIALS INDICATED
66	SIDEWALK REALIGNMENT

SIGNING & PAVEMENT MARKING PLANS

S2-S4	ADDED FINAL QUANTITIES
-------	------------------------

- Refer to **CPAM 5.12** for requirements.
- Note:** Green checkmark or yellow ribbon next to the digital signature means that the Digital Certificate/ Signature has been validated.

Date	Name	Position (Title)	Review Type
RESIDENT OFFICE			
10/25/2017	JANE DOE	CSS	
10/25/2017	JOHN DOE	PA	
10/30/2017	JOE SMITH		QA
DISTRICT OFFICE			
04/15/2016	PETER PIPER	IA REVIEW	QC OTHER
07/05/2016	TOM THUMB	60% QC REVIEW	QC (INITIAL)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROADWAY ENGINEERS, INC.
 123 MAIN STREET
 TALLAHASSEE, FL 32303
 CERTIFICATE OF AUTHORIZATION: 12345

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
999	LEON	123456-1-52-01

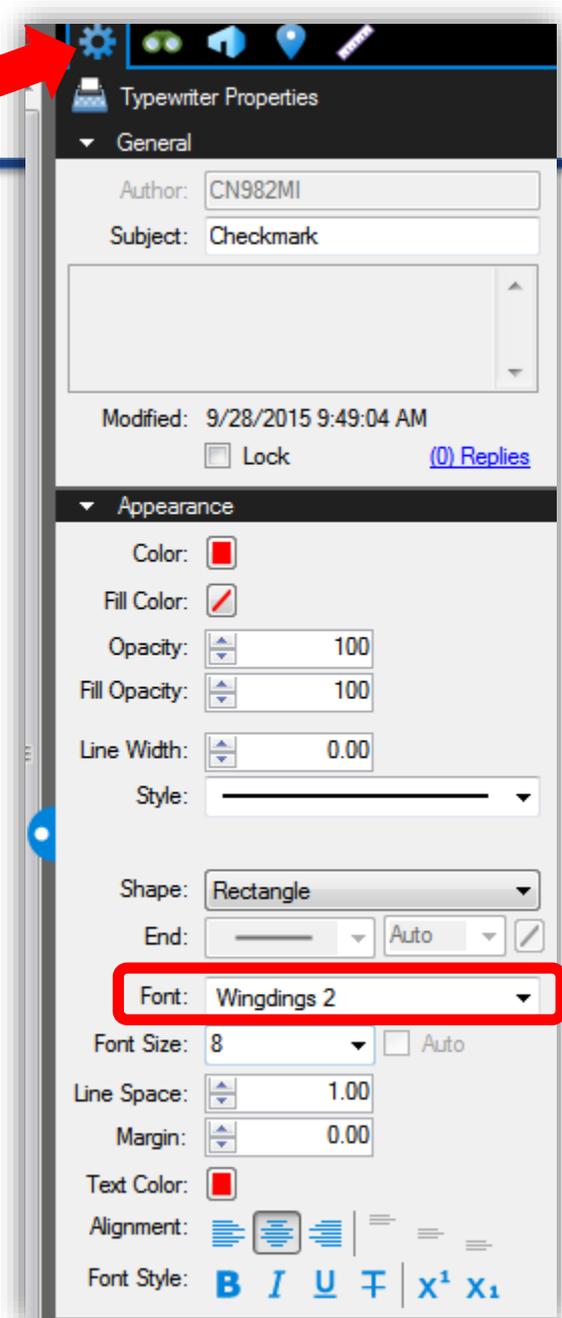
FINAL "AS-BUILT" SIGNATURE SHEET

SHEET
NO.
2A

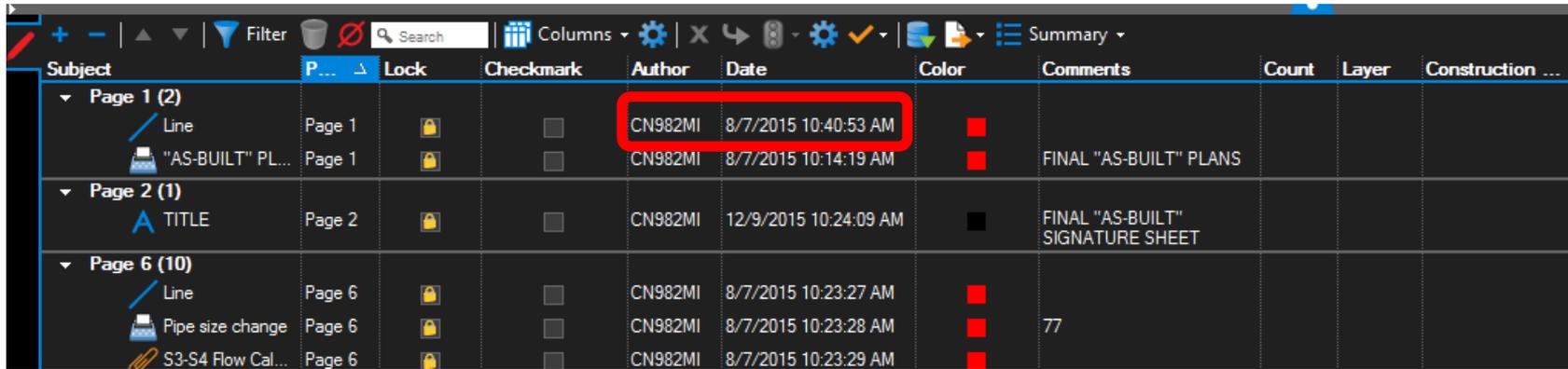
C:\Projects\CID-3186\DW-4394\112017\con\CS10\003.dwg

Checkmark

- Select the Typewriter
- In the Properties Panel:
Change Font to “Wingdings 2”
- Type the letter P in upper case
- Can be added to “My Tools”



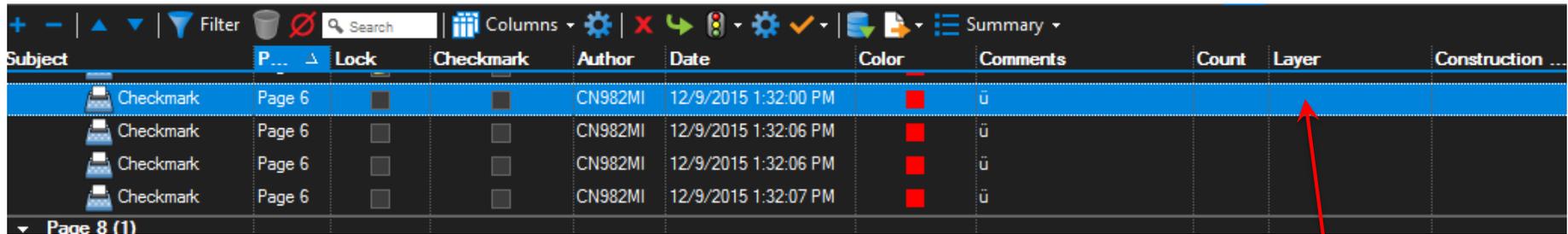
Markup Panel



Subject	P...	Lock	Checkmark	Author	Date	Color	Comments	Count	Layer	Construction ...
Page 1 (2)										
Line	Page 1		<input type="checkbox"/>	CN982MI	8/7/2015 10:40:53 AM					
"AS-BUILT" PL...	Page 1		<input type="checkbox"/>	CN982MI	8/7/2015 10:14:19 AM		FINAL "AS-BUILT" PLANS			
Page 2 (1)										
TITLE	Page 2		<input type="checkbox"/>	CN982MI	12/9/2015 10:24:09 AM		FINAL "AS-BUILT" SIGNATURE SHEET			
Page 6 (10)										
Line	Page 6		<input type="checkbox"/>	CN982MI	8/7/2015 10:23:27 AM					
Pipe size change	Page 6		<input type="checkbox"/>	CN982MI	8/7/2015 10:23:28 AM		77			
S3-S4 Flow Cal...	Page 6		<input type="checkbox"/>	CN982MI	8/7/2015 10:23:29 AM					

- All markups are listed in the Markup Panel (bottom panel).
 - The name of the author and date markup was made are shown.
- Each item on the list is a link to each markup.

Markup Panel: Layers (DFEO ONLY)

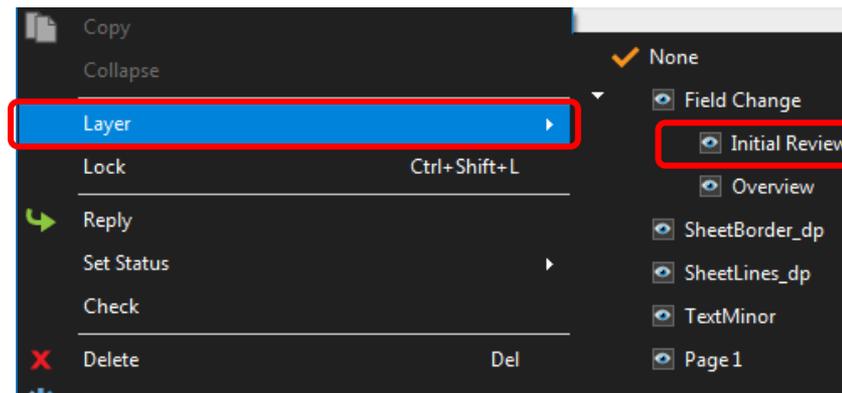


Subject	Lock	Checkmark	Author	Date	Color	Comments	Count	Layer	Construction ...
Checkmark	Page 6	<input checked="" type="checkbox"/>	CN982MI	12/9/2015 1:32:00 PM	■	ü			
Checkmark	Page 6	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:06 PM	■	ü			
Checkmark	Page 6	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:06 PM	■	ü			
Checkmark	Page 6	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:07 PM	■	ü			

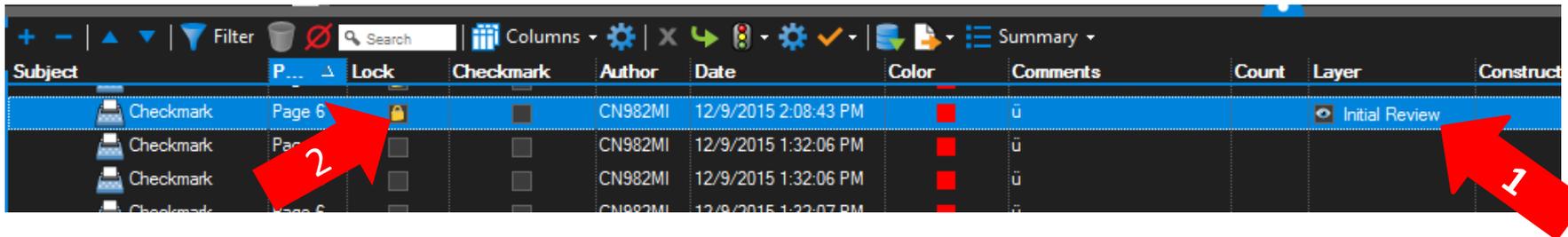
For any markups by **DFEO personnel** on digitally signed and sealed Final As-Built Plans:

- Before locking the markup, select the markup from the Markup Panel
- In the “Layer” column: **Right-click**
 - Select “Layer”
 - Select a layer or Create New Layer
 - It is recommended to use “Initial Review” or “Overview”
- Lock the markup

Right-click



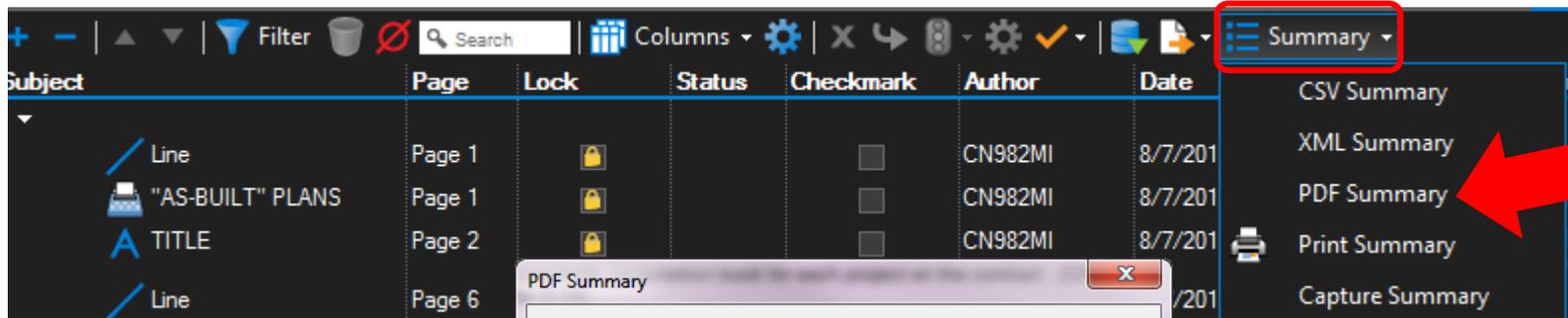
Markup Panel: Layers (DFEO ONLY) – cont.



Subject	P...	Lock	Checkmark	Author	Date	Color	Comments	Count	Layer	Construct
Checkmark	Page 6		<input type="checkbox"/>	CN982MI	12/9/2015 2:08:43 PM		ū		Initial Review	
Checkmark	Page 6	<input type="checkbox"/>	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:06 PM		ū			
Checkmark	Page 6	<input type="checkbox"/>	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:06 PM		ū			
Checkmark	Page 6	<input type="checkbox"/>	<input type="checkbox"/>	CN982MI	12/9/2015 1:32:07 PM		ū			

- Assigning a “Layer” to markups made by DFEO personnel on digitally signed and sealed Final As-Built Plans will allow the RE to correct any findings by the DFEO without altering those markups.
- The RE will be able to sign and seal only what he/she is responsible for. (See slide: [*Before Signing and Sealing.*](#))
- Original markups by DFEO personnel will not be erased.

Summary of Markups



Check this box **ONLY IF** the Summary of Markups is to be inserted in the Final As-Built Plans PDF file. By default, the Summary of Markups pages will be inserted after the last plan sheet, but it can be moved to the desired location within the file.

PDF Summary

Page Range
Pages: All Pages (1 - 24) of 24

Summary Options
 Exclude Filtered Markups
 Exclude Hidden Columns

PDF Options
 Append to Current PDF
 Create Hyperlinks
 Include Totals Include Page Content
 Include Capture Media Addendum
 Attach Media as Linked Files

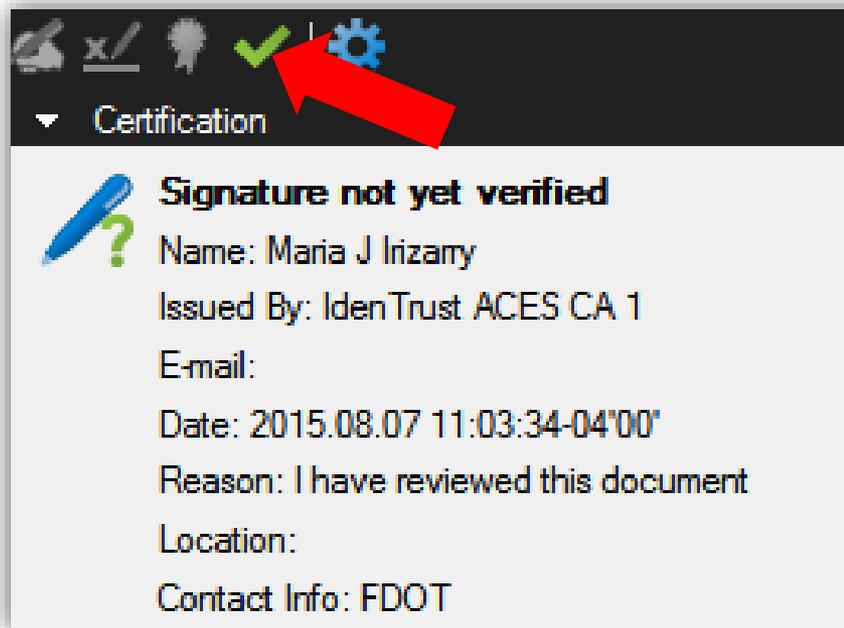
Title: Markup Summary
Style: Flow
Preview: Small Padding: 25 %
Page Size: Letter
 Portrait Landscape

OK Cancel

A Summary of Markups in the current file will include links to each markup for easy navigation through the document. Although this is not a requirement, the RE can insert the Summary of Markups behind the Final As-Built Signature Sheet.

DFEO

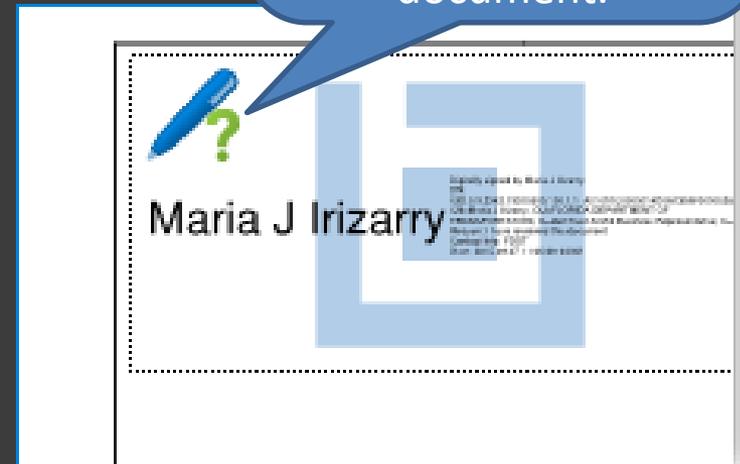
- Use color convention per [CPAM 5.12](#)
- Validate signature after any markups/changes.
 - A validated signature will have a green checkmark next to it.



Signature not yet verified

Name: Maria J Irizarry
Issued By: IdenTrust ACES CA 1
E-mail:
Date: 2015.08.07 11:03:34-04'00'
Reason: I have reviewed this document
Location:
Contact Info: FDOT

A green question mark ("?") indicates that changes have been made to the previously certified document.



Maria J Irizarry



Florida Department of
TRANSPORTATION



Ashley Anderson, P.E.
Office of Construction
Final Estimates Specialist
Ashley.Anderson@dot.state.fl.us

Sherry Valdes
Office of Construction
Final Estimates Specialist
Sherry.Valdez@dot.state.fl.us