

# APCM Digital Delivery Program Synchro

Update



## **APCM**



- User Acceptance Testing
- Champions
- Training
- Rollout
- Two Systems







End the streak of daily deaths on Texas roadways.

TxDOT.gov (Keyword: #EndTheStreakTX)



#EndTheStreakTX Toolkit



# Roadmap



## 2024:

- Models for Letting
- Model Development Standards
- Implementation Plan
- Digital Construction Exploration
- Workforce Transition Strategy

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## **SPRING 2025:**

 1st Fully Digital Pilot Project



**Additional Pilot Projects** 

**Statewide Policy for Digital Delivery of Applicable Projects** 



## 2023:

- Software Investigation
- Model Review SOP
- Asset Management Digital Twin **Exploration**
- Strategic Plan



# **Digital Delivery - In Progress**



Upgrade to ORD 10.12 – complete by end of Feb

ORD Advanced Modeling class – intersections, ramp, driveways

Strategic Plan – Final draft under review

QA/QC, inspection processes development

Models to contractors, FIO, on all projects....soon

JEDI project– Data Management & Asset Management subgroups

Model Development Standards and Level of Development standards in development

AGC working session with 100% SAT pilot project deliverables

Pilot Projects - SAT, AUS, LRD, YKM, SJT

# **Digital Delivery – Additional Pilot Projects**

Name	District	Scope
US 83	Laredo	Schematic round first; 3.741 mi roadway widening to add lanes and shoulders from 1 mi north of SH 255 to Los Botines Ln
FM 1977	San Antonio	0.311 mi full depth reconstruction and widening from FM 621 to the Guadalupe/Caldwell county line
FM 971	Austin	3.14 mi roadway widening from CR 334 to SH 95. Includes pedestrian and drainage facilities
FM 236	Yoakum	~5 miles - Add Lane to Convert to a 3-Lane Facility with a Continuous Left Turn Lane Including Widen Pavement, Median Construction, Realign of Roadway, Construct Undivided Lanes, Placement of ACP, Upgrade Standard, and Proposed Drainage Modifications
FM 1929	San Angelo	~8.5 miles of rehabilitation of existing road from US 83 to Lake County Rd. No anticipated ROW.

# **Letting Discussion**



## What about letting?

- AGC Workshop completed with our 100% design files
- Mandatory Pre-Bid Meetings
- Plans Online
  - Folder in lieu of single PDF
  - Will include a reduced planset, roll plots, and contract digital files.
  - Proposals
- SAT Pre-Letting Responses FTP Site
  - For Information Only documents
- PS&E Checklist and Letting Checklist
  - New Checklists have been developed and will be refined with each pilot project

# **Communication Initiatives**

## **TxDOT Digital Delivery Website**

- www.txdot.gov/digital-delivery
- Roadmap
- FAQs & Glossary of Terms
- General Training Material
- Contact

## **Digital Delivery Roadshow**

- Annual Program Updates
- Face-to-Face Presentations

## **Newsletter**

- Pilot Project Updates
- Event Announcements

## **Conferences & Trainings**









**Construction Division** 

## **SYNCHRO - Basics**

- ► WHAT IS SYNCHRO?

  SYNCHRO is an application program used as a tool in the field to create field calculation sheets or forms that can be assigned to other users and imported directly to 

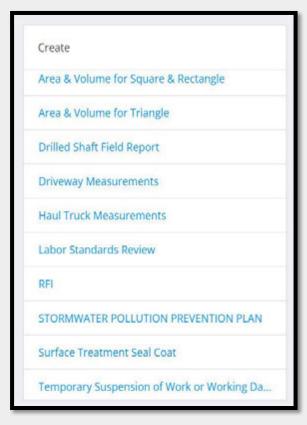
  ProjectWise
- ► SYNCHRO Control is the web-based application and SYNCHRO Field is the apparaulable for cell phones or tablets
- ▶ SYNCHRO keeps tabs of recent activity of documents with an easy-to-read dashboard





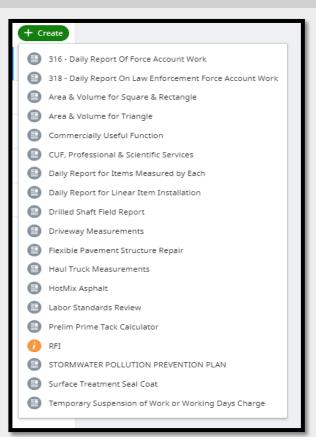
## **SYNCHRO - Forms**





**Short Course** with 10 forms...

> Now at 19 forms. Continue to add and develop as we progress.



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## SYNCHRO - INPUT to OUTPUT







#### Comments

Author: Jacqueline Benavides Date: 8/31/2022 10:48 AM

#### Comments:

Moved from status Open to Review.

Transition comment: please complete labor interview

Author: Jacqueline Benavides Date: 8/31/2022 10:50 AM

#### Comments:

Moved from status Review to Completed.

Transition comment: all is good move to PW

#### listory

8/31/2022, 10:48 AM Jacqueline Benavides Created

8/31/2022, 10:48 AM Jacqueline Benavides Assigned - Jacqueline Benavides

8/31/2022, 10:48 AM Jacqueline Benavides Status - Open

8/31/2022, 10:48 AM Jacqueline Benavides Opened

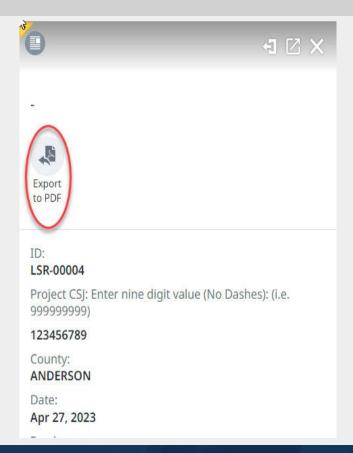
8/31/2022, 10:48 AM Jacqueline Benavides Status - Review

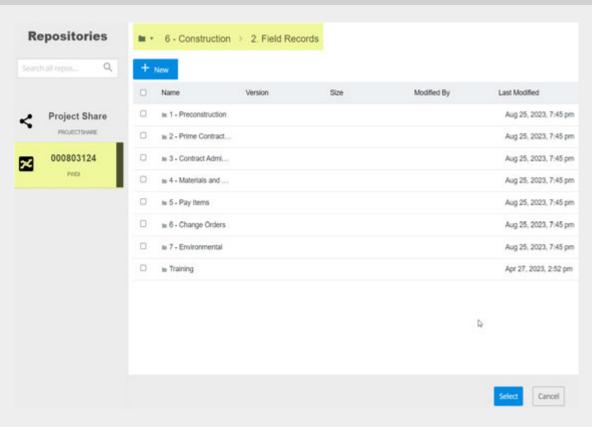
8/31/2022, 10:50 AM Jacqueline Benavides Status - Completed

8/31/2022, 10:50 AM Jacqueline Benavides Closed

## **SYNCHRO - Connections to ProjectWise**



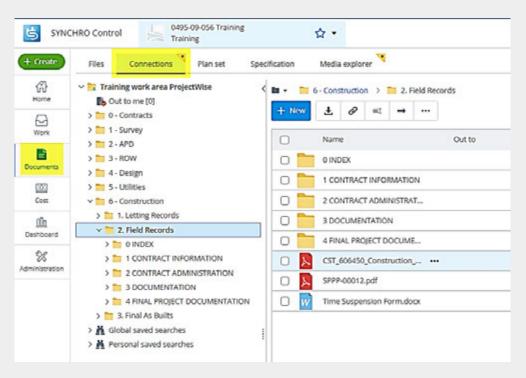


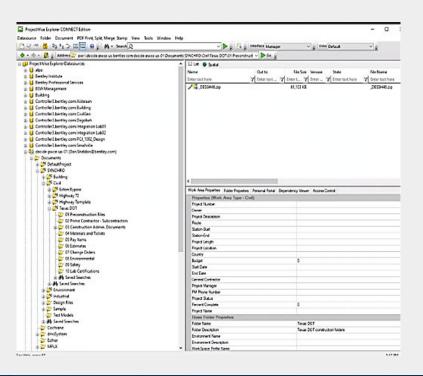


## **SYNCHRO - Connections to ProjectWise**



Once a document or form is completed in SYNCHRO, the user creates a PDF version of the file and can drag and drop file in SYNCHRO, file updates to ProjectWise via Connection

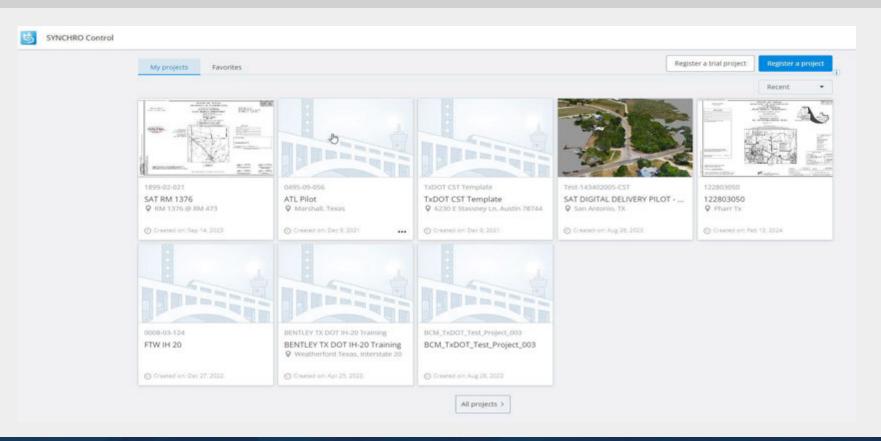




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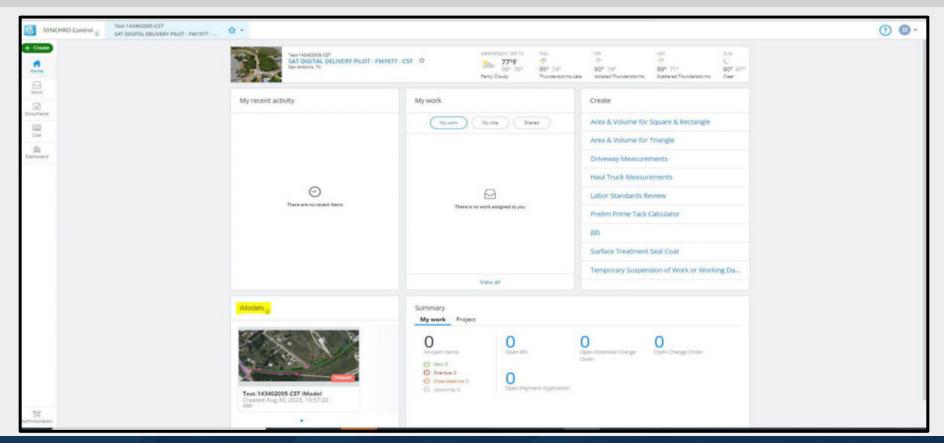
# **SYNCHRO - Current Projects**





# **SYNCHRO - Selecting iModel**

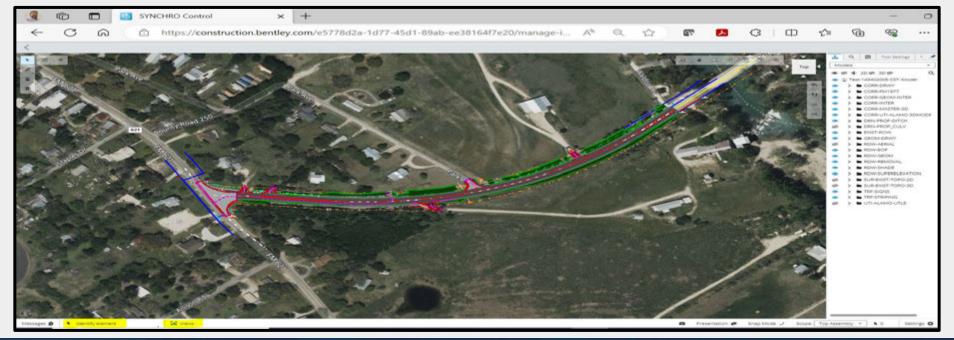




## **SYNCHRO - iModel**

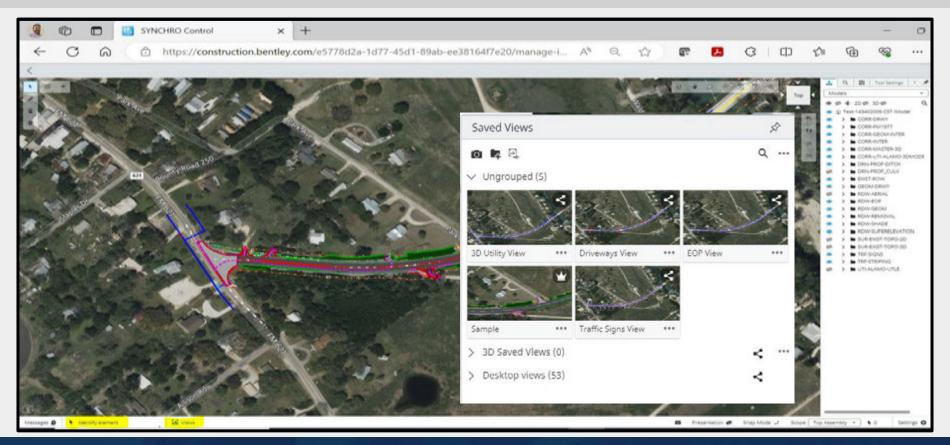






## **SYNCHRO - iModel Saved Views**

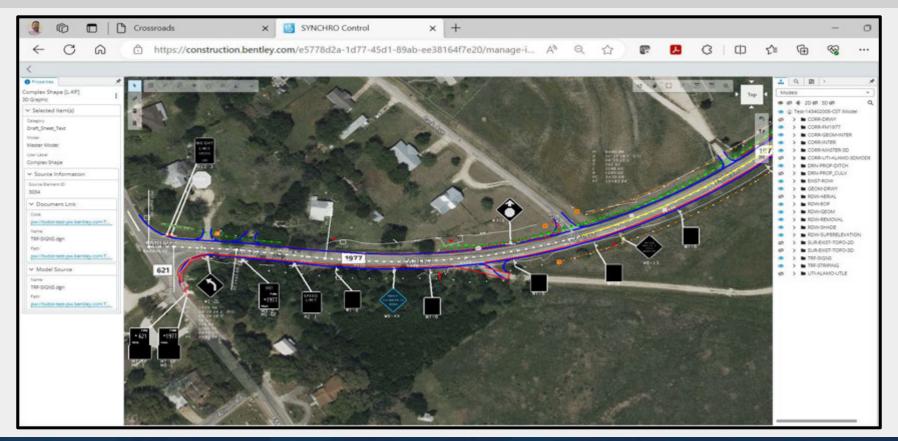




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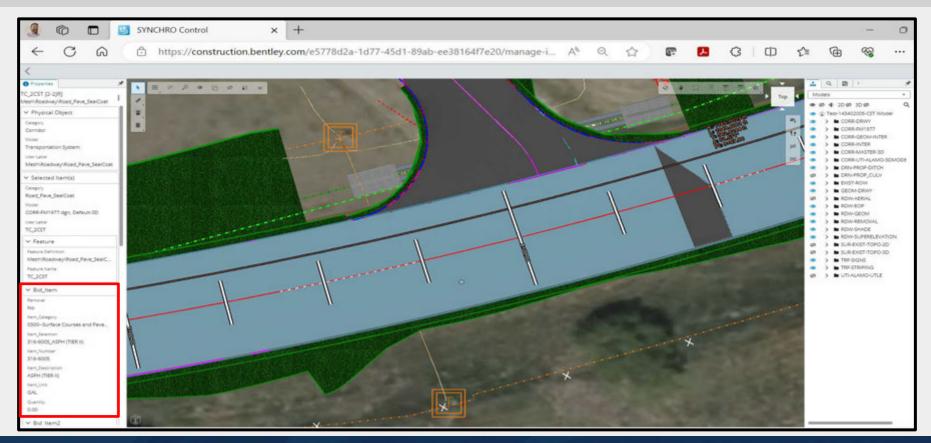
# **SYNCHRO – iModel Saved View: Signs**





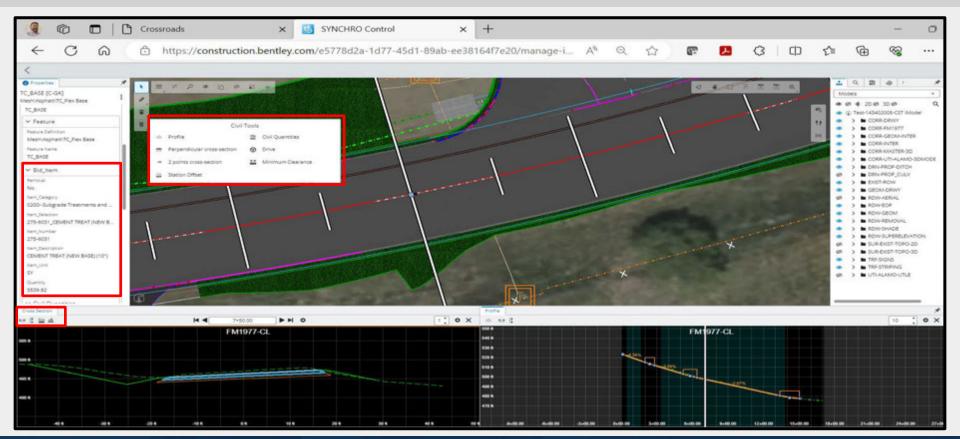
# **SYNCHRO – iModel: Identifying Work Items**





## **SYNCHRO - iModel: Civil Tools**





# **SYNCHRO - Summary**

Phone App

Tablet Friendly

**Upload Pics** 

TxDOT Form Creation

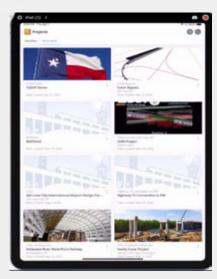
Instant transfer of DATA

No Scanning

3D Model







Stay Organized

Reduce Paperwork

Audit & Tracking Tool

Save Time



## THANK YOU





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