



INDOT
**DIGITAL
DELIVERY**

FHWA defines Digital Delivery as:

a comprehensive, model-based method that **replaces traditional paper or PDF workflows** with **shared, structured digital data and tools** across all phases of a transportation project - planning, design, construction, and operations/asset management.

WHAT IS DIGITAL DELIVERY?

Changing how and what
information we exchange from:

- Scoping to Design
- Design to Construction
- Construction to Asset Management

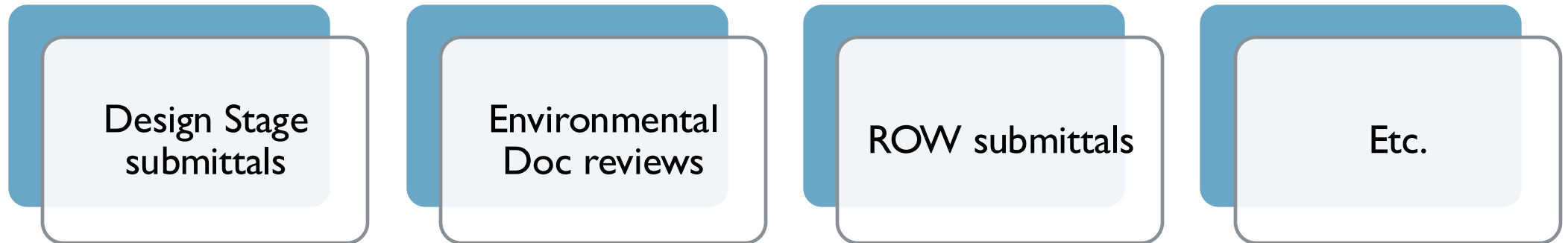
Two broad areas of focus:

- Data
- Processes
 - Systems

WHAT
DOES THAT
MEAN FOR
INDOT?

PROCESSES: WHERE ARE WE TODAY?

- During project development (Design phase) >20,000 transactions a year



- Spread across 10+ unique applications

CURRENT DELIVERABLES

-
- PDFs abound
 - Plans
 - Reports
 - Permits
 - Pictures of Data, lots of duplicate effort
 - Paper? Seriously



INDOT DIGITAL DELIVERY

10 YEAR STRATEGIC ROADMAP

PHASE 4 (2030 - 2032) Statewide Rollout

- Implement digital delivery across all new projects
- Integrate digital as-builts into asset management systems

4

PHASE 3 (2028 - 2029) Strategic Expansion

- Refine modeling standards and data exchange formats
- Expand pilots to additional regions and asset types

3

PHASE 1 (2025 - 2026) Foundation & Planning

- Bentley Infrastructure Cloud for Active Construction
- Infrastructure Cloud Deliverables Management ERMS Replacement

1

PHASE 5 (2033 - 2035) Optimization & Sustainability

- Align with national open data standards
- Institutionalize Digital Delivery and retire legacy systems

5

PHASE 2 (2026 - 2027) Pilot & Implementation

- Digital Delivery Program Commencement
- Initial Digital Delivery Pilot Selection
- Develop Information Delivery Manual with Exchange

2

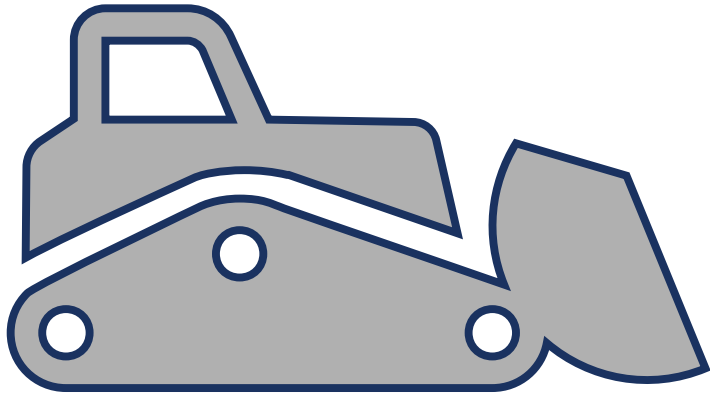
- New system required to facilitate data sharing: **Infrastructure Cloud**
 - Rolled out Spring/Summer of 2026
 - >3500 active projects
- Deliberately Slow – change is difficult
 - Construction – limited number of workflows for projects let after July 1, 2026
 - Design – Stage submittals after August 3, 2026

WHERE
ARE WE
NOW?
PROCESSES
& SYSTEMS

- Gathering active feedback from stakeholders
 - Pilots – SR 32, Improve 64
 - Asset Inventory Guidance
- External help coming – RFP 260302, WSP selected
 - Data Dictionary
 - Design Standards

WHERE
ARE WE
NOW?
DATA

WHY START HERE?



Construction

- Broken or nonexistent tools to complete tasks

Design

- Industry has been clamoring for a new process
- Old process was onerous and expensive
- Relatively small footprint with a high ROI

STAGE SUBMITTALS IN GREATER DETAIL

- Prior system did not allow for concurrent review
 - requiring designers to submit the same files multiple times.
- System was very slow and delicate
 - uploads could take hours and fail mid-stream.
- Time study + analysis of consultant fee proposals + interviews with trusted external partners indicated a **costs savings of \$5000/submittal**
 - With our average 2000 submittals/year, projected annual savings of \$10M

STAGE SUBMITTALS IN GREATER DETAIL

Plans-1900162-MOT-Ph-1A-and-1B-for-Roadway-Services.pdf

SSRFC-B

inaccuracies, resend new version

0 open
96 closed
19 Rejected
77 Resolved

response ?

Review Complete by Amanda Ranck

Unlock

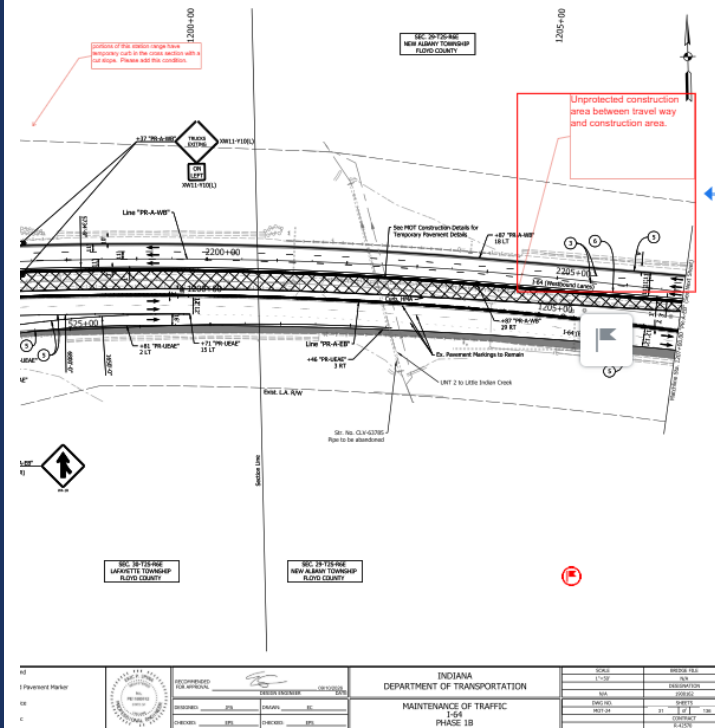
Comment

The William Charles' res comments from INDOT place a copy of the Sign review the drainage calc have been completed at

Attachments

MASTER Improve64

DgnCalc-1900162-D



Markups (114)

Sort: Position

Andrew Rosemeyer

07/06/2026

TRA-00799 L-EB Typical Section

Assigned To: Amanda Ranck

Due:

Rejected

Mark Orton

08/26/2026

TRA-01277 Unprotected constr...

Assigned To: D'Arcy Jackson

Due:

Rejected

Eric Spina

09/31/2026

AS discussed in the 8/31 meeting this area is still a work zone however it cannot be active while being used as an entrance/exit. A note has been added to the plans

Eric Spina

09/03/2026

AS discussed in the 9/1 meeting only 100' of wall will need to be removed and drawings have been updated to show this. These

VALUE ADDED

- **Monetary \$\$\$**

- Since August 3r rollout, 240 Stage submittals have already been processed with **projected savings of \$1.2M**

- **Greater Transparency**

- old process was a “Black Box”

- **Institutionalizing Change**

- first 2000 of the 20,000

NEXT STEPS



FALL 2026

- Request Models for informational purposes
- Kickoff Digital Delivery Support Contract with WSP
- Roll more work flows and transactions into Infrastructure Cloud

SCHEDULE & MILESTONES

90-Day MVP: governance, pilot selection, baseline systems, standards alignment.



Year 1: Construction inspection & digital as-built pilots;

Year 2: AISE pilots (drainage assets);

Year 3: Design-to-construction integration; model-based review

Year 4: Statewide scaling; district implementation; sustainment & performance reporting.



WORKFLOWS/PROCESS/COMMUNICATION

SR 32 PILOT MODEL AND 4D CONSTRUCTION



Infrastructure Cloud



205815
SR 32 PDB

EXTERNAL

PROJECT



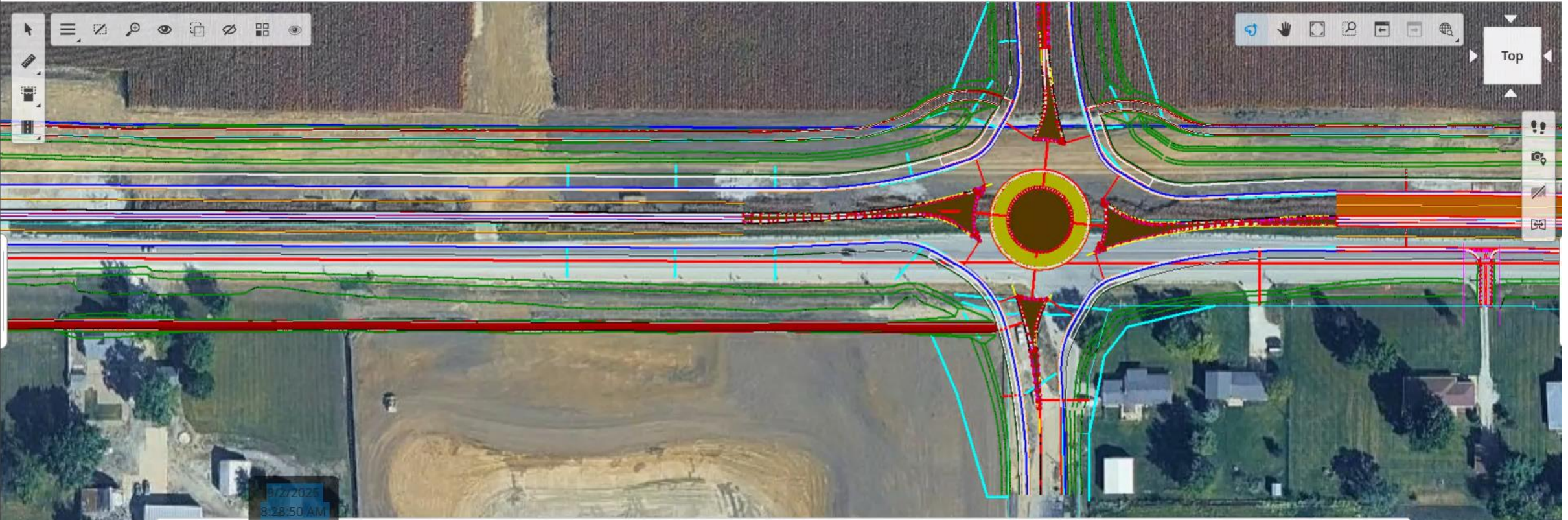
SR 32_PDB 4D Model 4D



Rotate About Point does not have tool settings.



Top



Google Maps

9/1/2025

8:00:00 AM

11/19/2026

5:00:00 PM

WHAT DOES THAT
MEAN FOR INDOT?



HOW CAN YOU HELP?



Help us find
champions



Make time for
working groups



Identify “Process
Creep”



Be an
Evangelist