INDIANA
TRANSPORTATION TEAM

Fort Wayne Spring Meeting

May 12th, 2026

8:00a – noon

Purdue University Fort Wayne

Welcome / Opening Statements

Roland Fegan

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Session 1:

Pre-Letting Utility Efforts

John Langmaid
Jason Hanaway
Gary Mroczka
Natalie Parks
Kip Bunch

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811 Coordination in Development

INDOT RESOURCES FOR 811

105 IAC 13

- https://www.in.gov/indot/3787.htm

Utility Accommodation Policy

- https://www.in.gov/indot/3787.htm

Utility Coordination Design Manual (Chapter 104 IDM)

- https://www.in.gov/indot/3787.htm

Utility Management System (UMS, through ITAP)

- https://itap.indot.in.gov/

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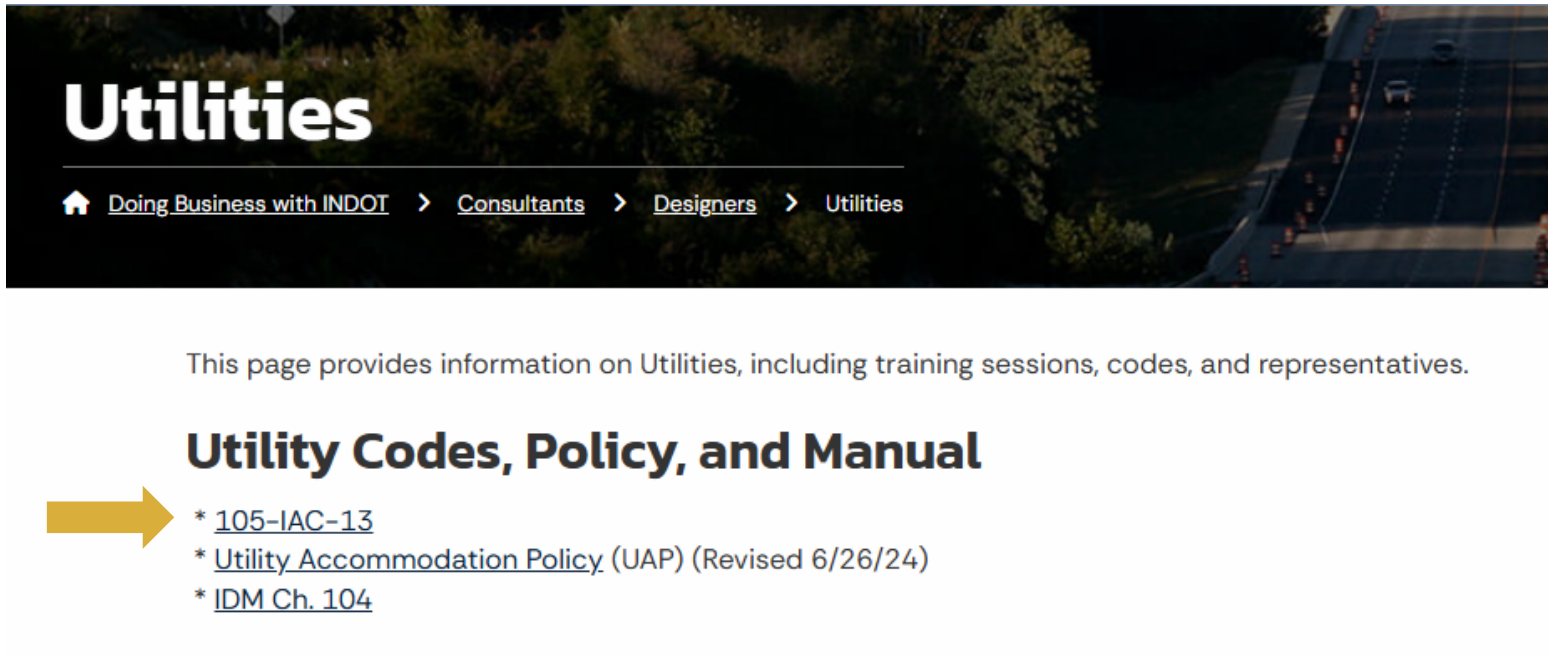
105 IAC 13

- **Indiana Administrative Code**
- **Utility Coordination is required to be performed by a Certified Utility Coordinator**



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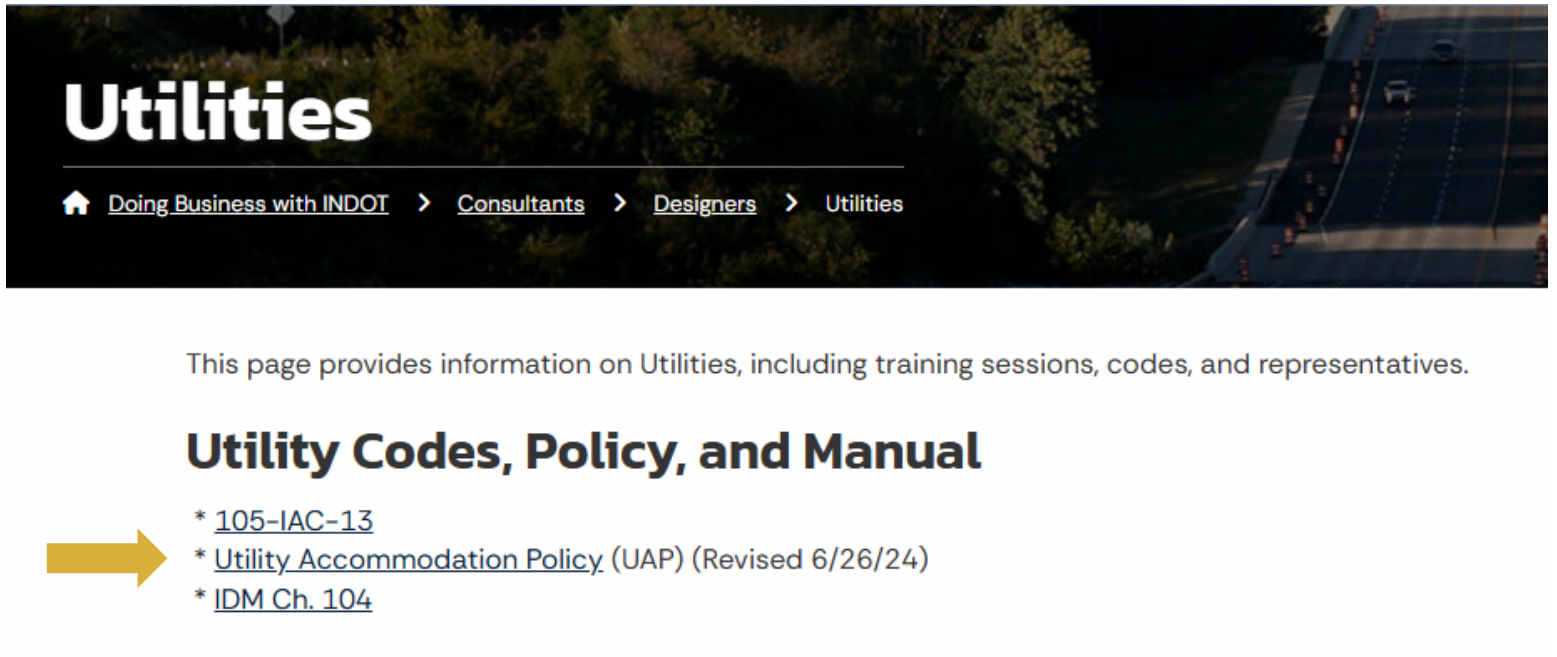
UTILITY ACCOMMODATION POLICY

All UAP exceptions on state right-of-way must be approved by INDOT Utilities & Railroad Division



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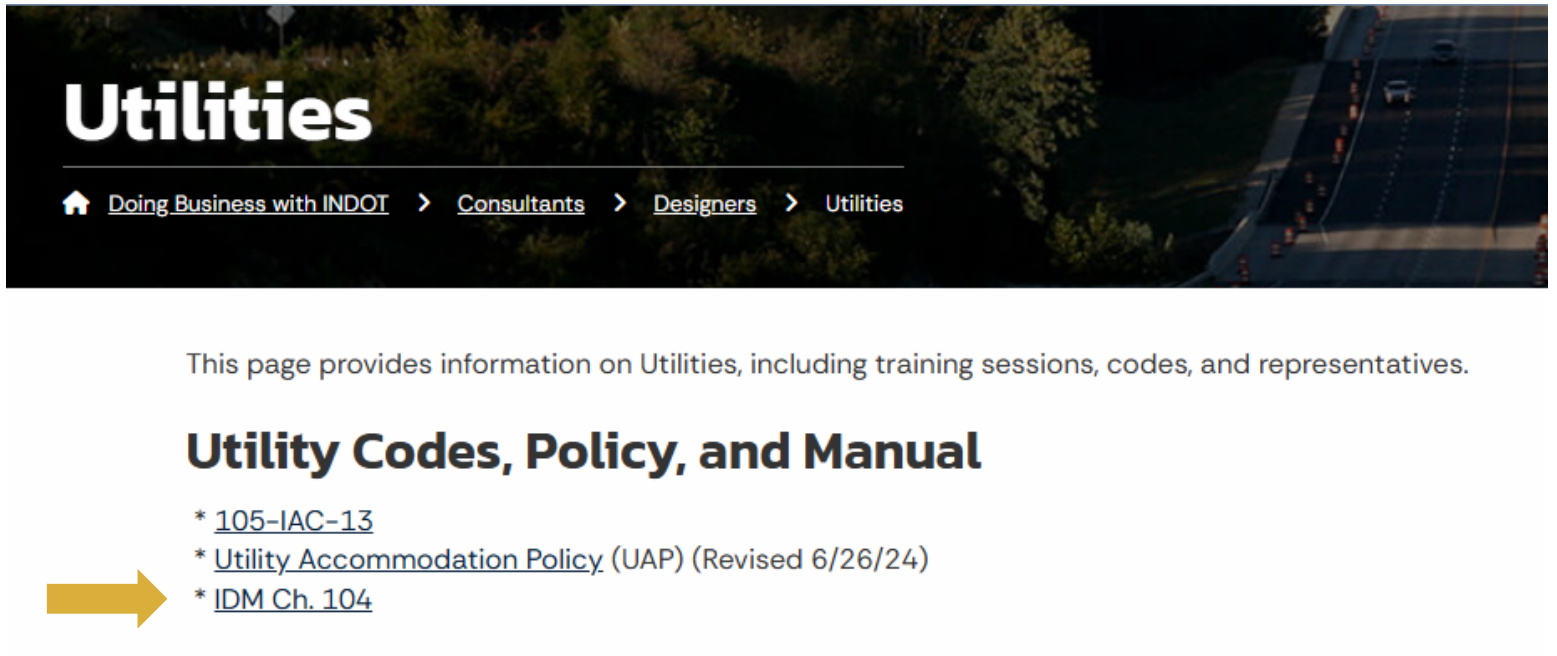
UTILITY COORDINATION DESIGN MANUAL

- **Currently Chapter 104 of the Design Manual**
- **Utility Coordination Process based on the 105-IAC-13**



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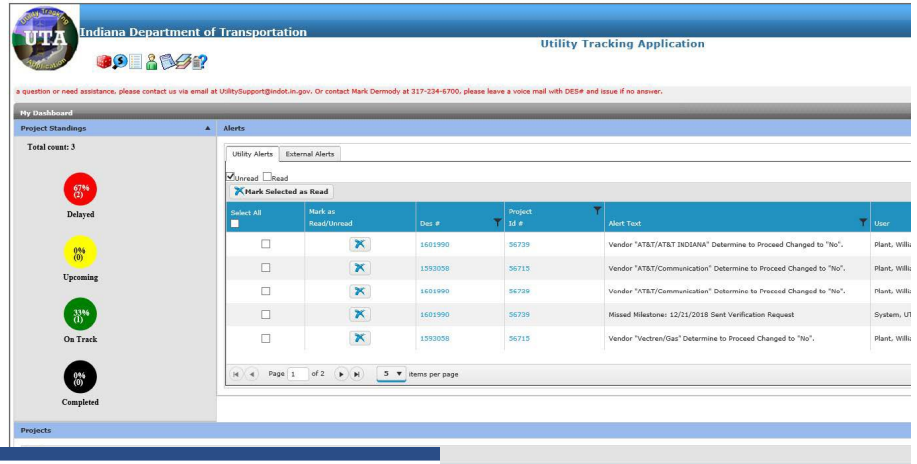
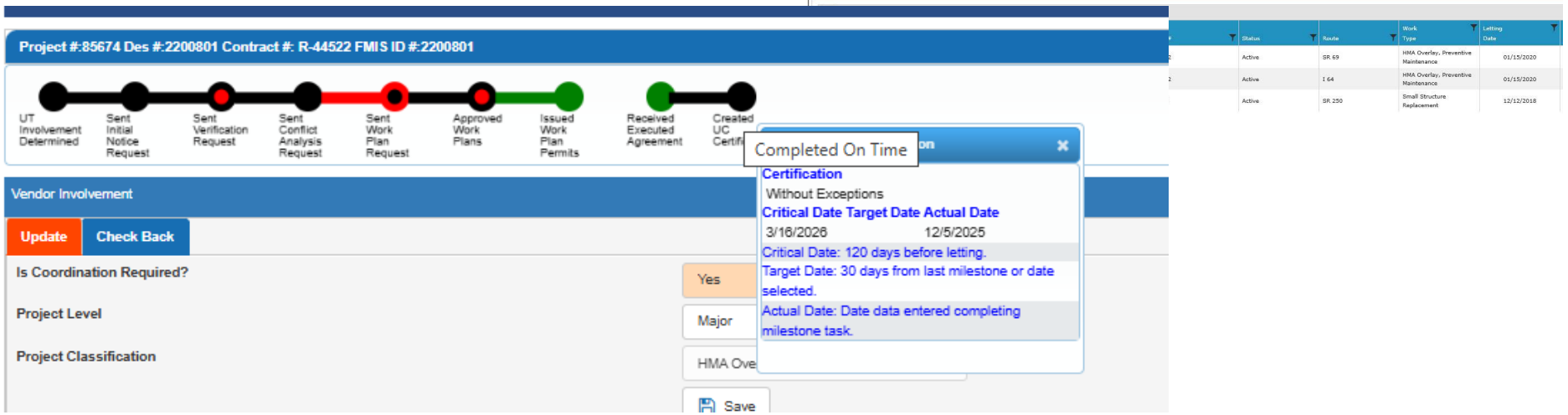
UTILITY MANAGEMENT SYSTEM (UMS)

Benefits of UMS:

- Centralized data location
- Document retention
- Template documents





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CALL 811

Open 24/7:

- Advance notice: 2 full working days
- Marks valid: 20 days

White	Proposed Excavation
Pink	Temporary Survey Markings
Red	Electric Power Lines, Cables, Conduit, and Lighting Cables
Yellow	Gas, Oil, Steam, Petroleum, or Gaseous Materials
Orange	Communication, Alarm or Signal Lines, Cables, or Conduit
Blue	Potable Water
Purple	Reclaimed Water, Irrigation, and Slurry Lines
Green	Sewers and Drain Lines

References:

- APWA Uniform Color Code
- Existing operating practices from various states' one call centers
- Existing one call laws from various states

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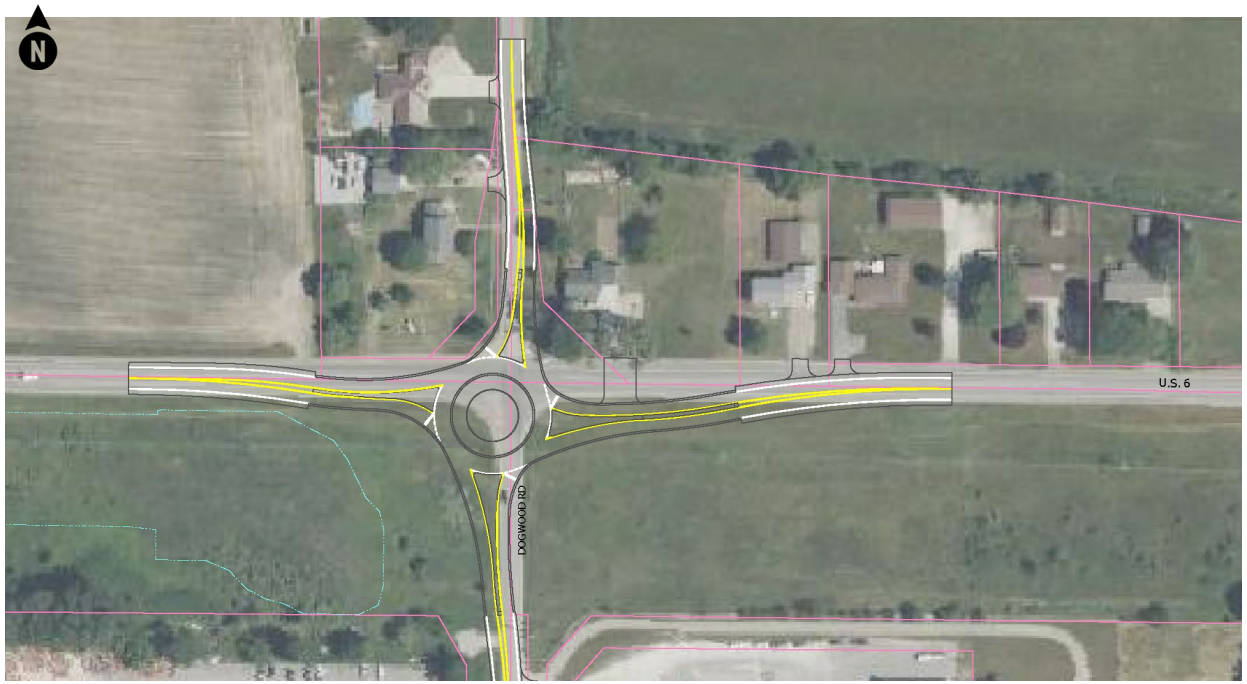
WHY IS 811 EARLY IN DEVELOPMENT ABSOLUTELY CRITICAL?

There are now more facilities in the right-of-way than at any time in our history



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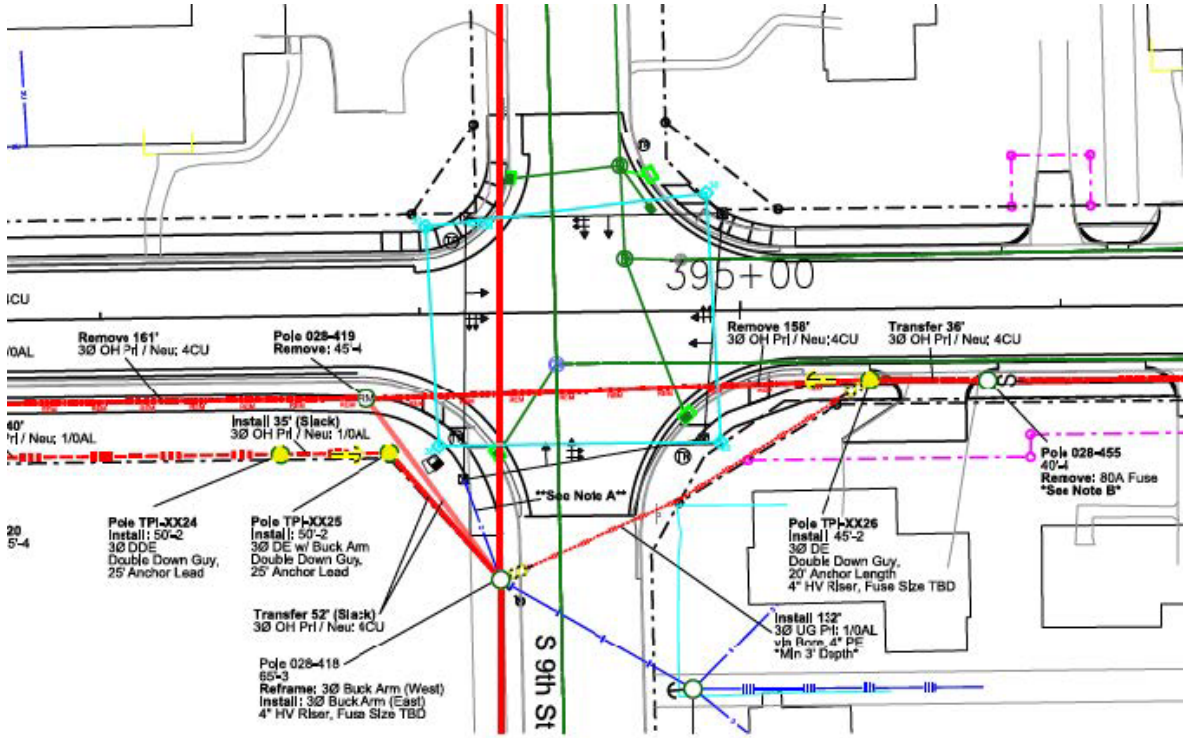
DESIGN PLAN DETAILS & UTILITY MASTER PLANS

Most beneficial master plans include:

- All utilities
- Existing & proposed lines
- Roadway plans
- Cross sections have even more added value



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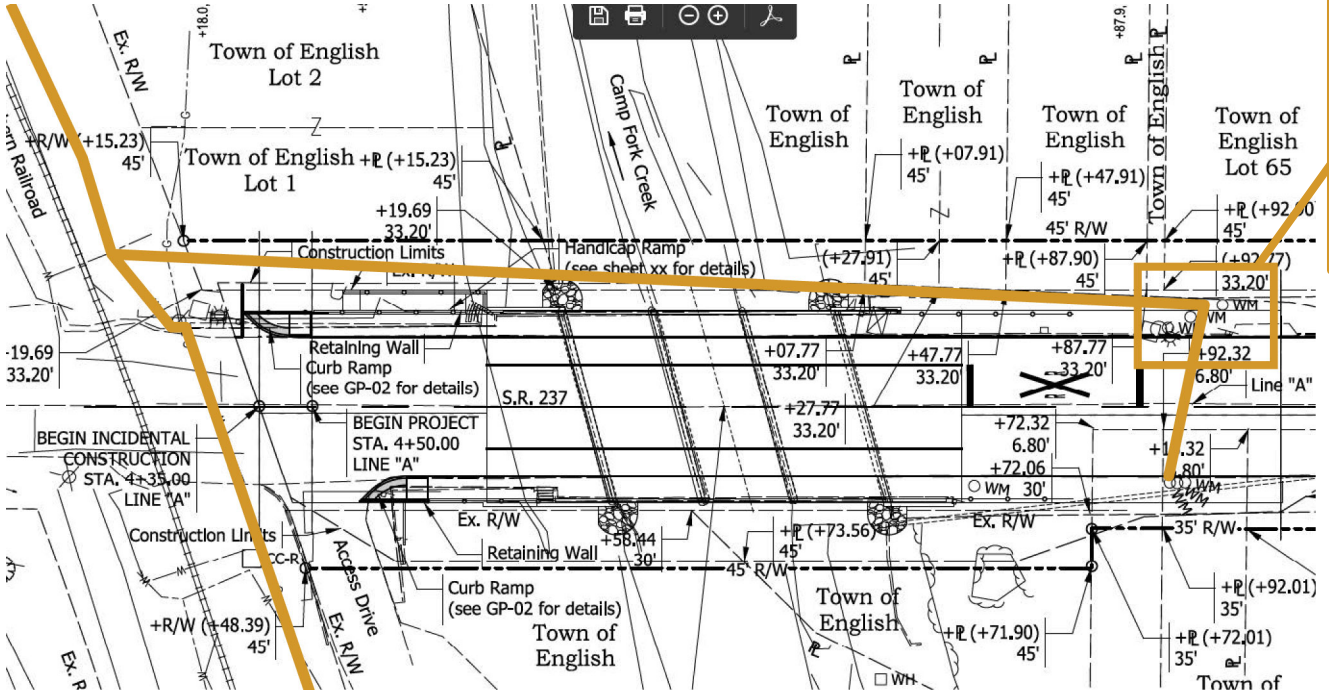
DESIGN PLAN DETAILS & UTILITY MASTER PLANS

Above-ground ‘clues’ can help determine line locations



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DESIGN PLAN DETAILS & UTILITY MASTER PLANS

Above-ground ‘clues’ don’t tell the whole story

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DESIGN PLAN DETAILS & UTILITY MASTER PLANS

Other existing or proposed utilities in the area could complicate or prevent construction

http://www.kennyjonescorp.com/underground-utilities/

https://www.prime-excavating.com/underground-utilities/

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DESIGN PLAN DETAILS & UTILITY MASTER PLANS

Service lines typically aren't shown on plans

http://www.kennyjonescorp.com/underground-utilities/

http://www.edgerenterprises.com/utilities

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811 IN DEVELOPMENT

Different types of 811 tickets

Design Inquiry Ticket

- Nothing is physically marked in the field by locator
- Great way to know what utilities are present so you can make contact early
- Also, very helpful prior to topographical survey so hopefully you can have maps of what “should be” painted on the ground when doing topo
- Perform at each stage of the project to make sure nothing has changed or new utilities have been installed during the project-with letting dates often being years out, things can change fast

Locate Ticket

- Very helpful if you can provide a great description of your location and can provide white lining on what you need marked
- These have gotten very slow/poor in the past few years-Can take up to 3 weeks to a month to get marked, so allow sufficient time
- When performing exploratory work—send a “Positive Location” email and state that “do not excavate” is in effect until you receive confirmation email that locates have been performed

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811 IN DEVELOPMENT

- **LOI response to RFP**-Perform 811 Design Inquiry and Site Visit to Verify Visuals
- **Prior to Topographical Surve**y-Perform 811 Design Inquiry and 811 Locate
- **Stage 1 Design**-Perform 811 Design Inquiry to Ensure no Additional Utilities Have Been Added
- **Stage 2 Design**-Perform 811 Design Inquiry to Ensure no Additional Utilities Have Been Added
- **Stage 3 Design**-Perform 811 Design Inquiry to Ensure no Additional Utilities Have Been Added
- **Final Tracings**-Perform 811 Design Inquiry to Ensure no Additional Utilities Have Been Added
- **Prior to Pre-Construction Meeting**-Perform 811 Design Inquiry to Ensure no Additional Utilities Have Been Added
- ****Changes in Design Parameters or Scope At Any Point****, *i.e.-Hydraulics Change Requiring Change from Planned Small Culvert to Precast Box with Wing Walls*-Perform 811 Design Inquiry and 811 Locate with Additional Topographical Survey

THROUGHOUT PROCESS: Coordinate with INDOT District Utility Coordinator and Project Manager on reimbursable/non-reimbursable status and progress on utility relocation plans (if necessary)

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Utility Permit Applications

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UTILITY PERMIT APPLICATIONS

- **FOCUS TOPICS**
  - Process
  - Lessons learned

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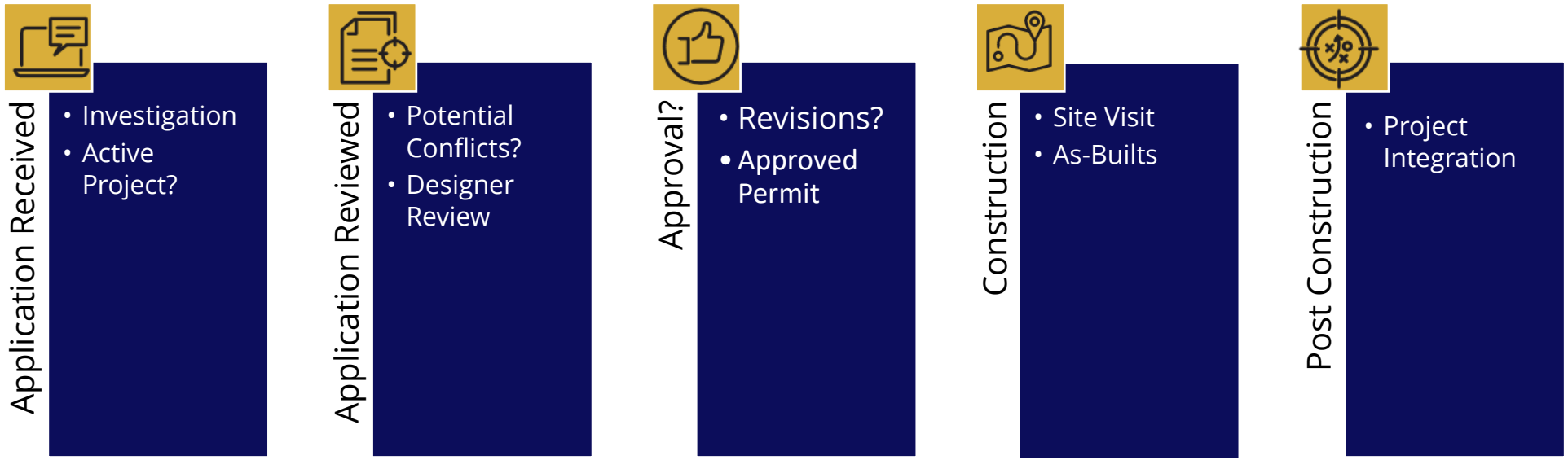
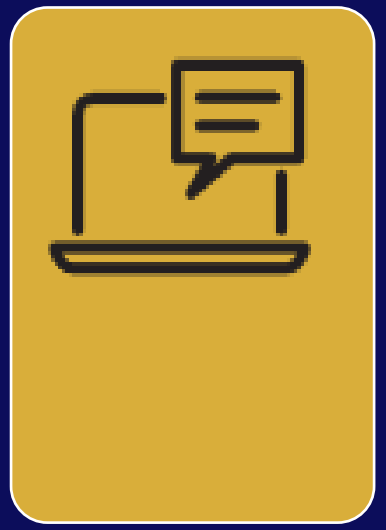
UTILITY PERMIT APPLICATIONS

- **Process**



UTILITY PERMIT APPLICATIONS

- **Process**



Application Received

- Permit application is reviewed by the Permit Investigator
- The permit is routed to the Utility and Right of Way Supervisor (Kip Bunch) for review within the Electronic Permit System (EPS). The Investigator may send an email with the permit documentation to Kip Bunch, the INDOT Utility Coordinator, and the PM.

UTILITY PERMIT APPLICATIONS

- **Process**

Application Reviewed

- If the Utility and Right of Way Supervisor (Kip Bunch) determines there is no conflict, the permit is approved.
- If a potential conflict is identified, the permit application is routed to the designer for review and comment. Utility Coordinator, and the PM.
- If the Designer identifies a conflict, the Designer provides comments.

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UTILITY PERMIT APPLICATIONS

- **Process**

Application Reviewed

What does the Designer do?

- Current project status?
- Conflict with design elements?
- Conflict with other utilities or planned relocations?
- Respond back to Project Manager
- Delivery timing?

UTILITY PERMIT APPLICATIONS

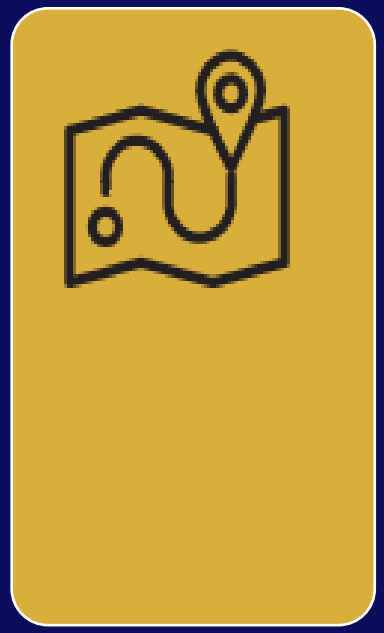
- **Process**

Approval?

- If a conflict is noted, the Utility and Right of Way Supervisor (Kip Bunch) provides comments to the Permit Investigator.
- The Investigator uploads comments in EPS.
- Upon submission of revised plans, the process repeats until no conflict remains.
- The approved permit will be routed to Utility and Right of Way Supervisor (Kip Bunch) and the PM.

UTILITY PERMIT APPLICATIONS

- **Process**



Construction

- A post construction site visited is conducted by the Permit Investigator.
- If the permit was for the placement of broadband (fiber), the applicant is required to provide an As Built within 90 days after construction is complete.
- As-Builts will be transmitted to the PM and the INDOT Utility Coordinator.
- Designer locates and adds to plans
- Designer starts utility coordination process

UTILITY PERMIT APPLICATIONS

- **Process**

Project Integration

- Designer adds to plans
- May need to refine design (if applicable)
- Designer initiates utility coordination process with new utility (depends on current stage of the project)
- May need to revise workplans with others (if applicable)
- Revise 107-R-169 and Utility Certificate (if applicable)

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UTILITY PERMIT APPLICATIONS

- **Lessons Learned**
  - Customer Service = Be responsive
  - Include Approved Relocation Work Plan in Permit Application if needed.
  - May require Pre-Construction Meetings in future to ensure proper placement in the field
  - Request As-Built Plans

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Subsurface Utility Engineering (SUE)

SUE: IN 5 MINUTES

- SUE is a **PROFESSIONAL** service
- Quality Levels
  - What they mean
  - Where we do them
  - Why we use them
- Test Holes come **AFTER** a QL-B investigation
- Sometimes **QL-D** IS good enough

*"**Reliable** information has historically not always been provided by **utility owners**."* ASCE 38

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SUE: PROFESSIONAL SERVICE

- SUE deliverables are signed and sealed by a licensed **SUE Professional Engineer**
- **SUE Professional:**
  - Training & working knowledge of shallow-earth geophysics, engineering surveying, utility construction & design principles, utility conflict identification, utility risks
  - A person holding a license to provide engineering, surveying, geological/geophysical and/or related functions as pertinent to utility investigations
- Licensed SUE professional assigns quality levels to utility segments using engineering judgement of available data

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ASCE 38: QUALITY LEVELS

- **Understand the scope:**
  - What information do you need?
  - What QL will give you that information?
  - The design engineer determines what information is needed…the SUE Professional determines how to obtain the required information

- **Understand what is NOT a quality level?**
  - One Call marks **have no quality level**, even if they are surveyed.
  - AI Generated utility information has no quality level.
  - Above ground features
  - Drawing in a line on the plans is not QL-D

REMINDER: One Call is a requirement for excavation. Damage prevention, not design enhancement.

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ASCE 38: QUALITY LEVELS

- **What IS a quality level?**
  - A value assigned to a **utility segment** by a SUE Professional
  - Describes the **relative uncertainty** of a utility segment's existence and actual location to that of the documented location

D C B A

QL-B is generally the highest quality level that can be achieved for the project as a whole.

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ASCE 38: QUALITY LEVELS

- **What IS a quality level?**
  - QL-D: estimated position judged through Utility records, oral information, visual clues
  - QL-C: estimated position judged through records to visible above ground, geo-referenced features
  - QL-B: existence and horizontal position based on geophysical methods combined with professional judgement
  - QL-A: direct exposure of the utility facility, and only at THAT point

Test holes are used to provide X,Y,Z information at critical locations. They are the LAST activity, not the first.

QL-B THEN QL-A, where needed.

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ASCE 38: QUALITY LEVELS

QL-D	QL-B
• No excavation • Mill & Resurface • Patching • Guardrail Replacement (?) • Small Structures & Drains (?)	• Small Structure Replacement • Bridge Replacement • Roadway Widening • Roadway Reconstruction • Small Town Reconstruction • New Alignment • Intersection Improvement

Sometimes QL-D is enough. The SUE Professional should help guide the decision for which QL is required.

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ASCE 38: INDUSTRY STANDARD

- ASCE 38-22 (or successors)
- **Field work is repeatable**
- Horizontal accuracy is 0.2’
- Vertical accuracy is 0.1’
- Resolve differences between utility records and surveyed utility features
- Utility segments defined by anchor points
- Justification is provided for incomplete utility information
- Includes utility attributes and metadata

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ASCE 38: DELIVERABLE

- Quality Levels depicted by a **licensed SUE Professional**
- Utility Owners identified
- Equipment used
- SUE summary/SUE report
- Survey information
- CAD File
- Plans are Signed and Sealed by a **licensed SUE Professional**

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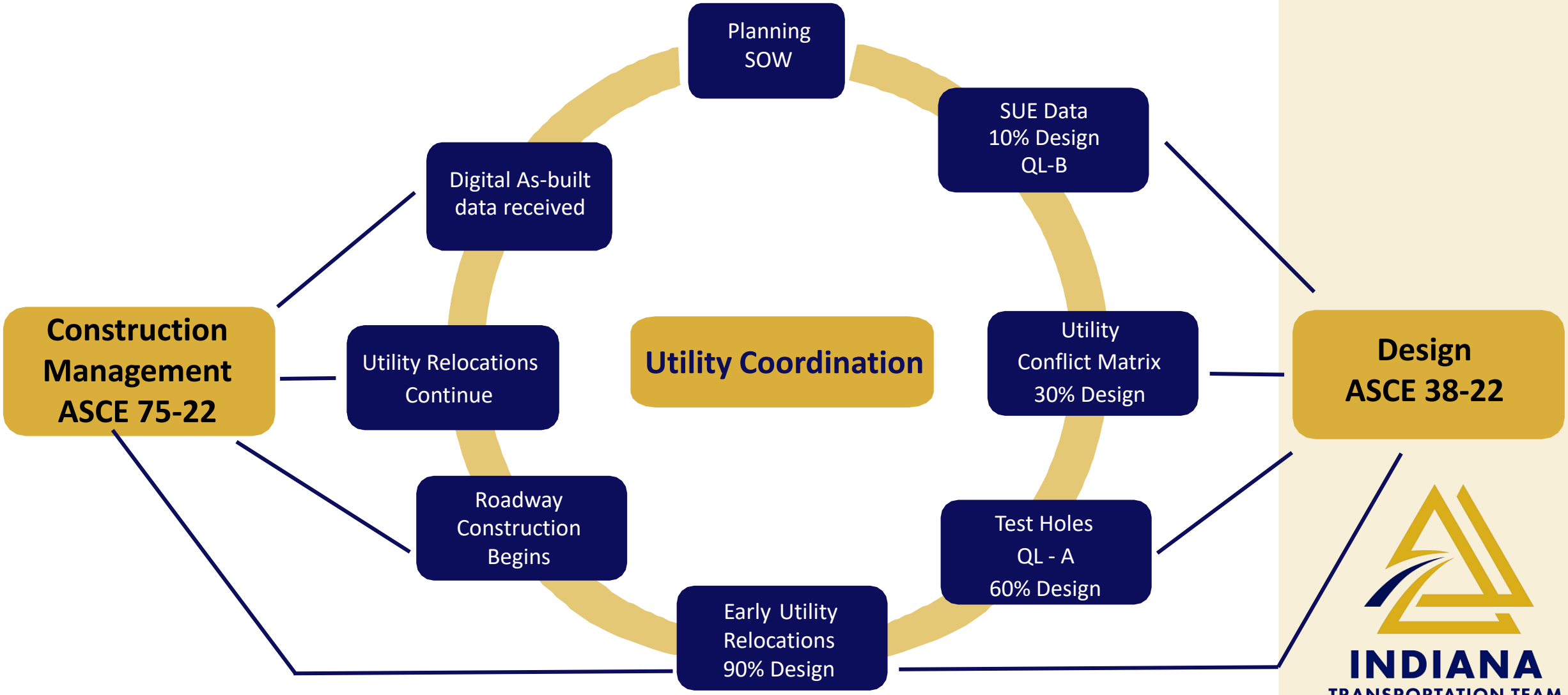
UTILITY ENGINEERING LIFE CYCLE



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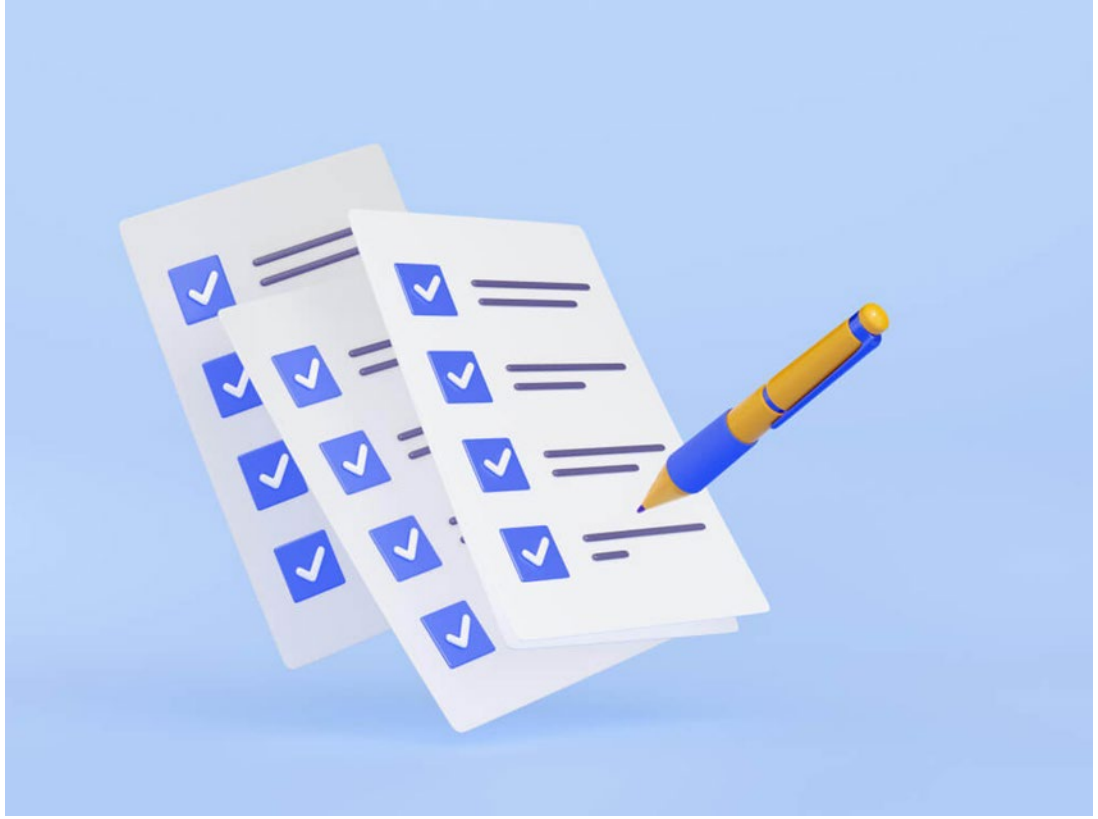
Reimbursable vs. Non-Reimbursable

AGENDA

- Agreements
  - Extraordinary Costs
    - 10%
    - 50%
  - 100% Reimbursable
  - Extraordinary Cost Calculator
  - Agreement Steps



AGREEMENTS – 10% - 50%

- IDM Ch 104.—5.02(02)
- IC 8-23-26-5
- IC 8-23-1-22.5

- 10% (Either work by Utility or Work by INDOT Contractor)
- 50% (Either work by Utility or Work by INDOT Contractor)

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AGREEMENTS – 100%

- IDM Ch 104.—5.01 (01)
- Standard agreement (either work by utility or work by Contractor)
  - Utility holds property interests which preempt (or have priority over) INDOT's right-of-Way.

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Extraordinary Cost Calculator

- Inputs
  - Total Project Cost
  - Utility Gross Annual Revenue
  - Relocation total cost
  - Betterment cost
  - Ancillary construction cost
  - Contingency
  - Non-Construction costs
- Output
  - Total Utility Cost for relocation
  - INDOT contribution

Extraordinary Cost Agreement Calculator

	Estimates	Actual
INDOT Estimated Project Costs	$ 2,243,800.00	-
Utility Gross Annual Revenue[1]	-	$ 1,180,760.00
Utility Construction Costs		
Utility Relocation Work	$ 417,631.45	
Utility Betterment	$ 27,495.00	
Ancillary construction work	$ 64,874.00	
Contingency	$ -	
Total Construction Costs	$ 510,000.45	$ 497,550.00
Non-construction costs	$ 153,000.00	$ 152,450.00
Total Utility Contract Cost	**$ 663,000.45**	$ 650,000.00
Percentage of contract for relocation	**81.888%**	
Calculated relocation amount	$ 542,920.77	
Calculated betterment amount	$ 120,079.68	
Is relocation > 50% of INDOT cost estimate?	**No**	**No**
INDOT Utility relocation contribution 50% rule	$ -	$ -
Extraordinary Cost Apply?	**Yes**	**Yes**
INDOT Extraordinary Cost contribution	$ 424,844.77	$ 414,198.91
Utility 10% Contribution	$ 118,076.00	$ 118,076.00
Utility Cost for betterment etc.	$ 120,079.68	$ 117,725.09
Total Utility cost for relocation	**$ 238,155.68**	**$ 235,801.09**

1. For the most recent year
2. Uses the greater of relocation cost over the 50% of INDOT's estimated cost or relocation cost over 10% gross revenue cost.

Assumptions - INDOT pays for all utility relocation costs, less betterment, that exceed 50% of the estimated INDOT project cost

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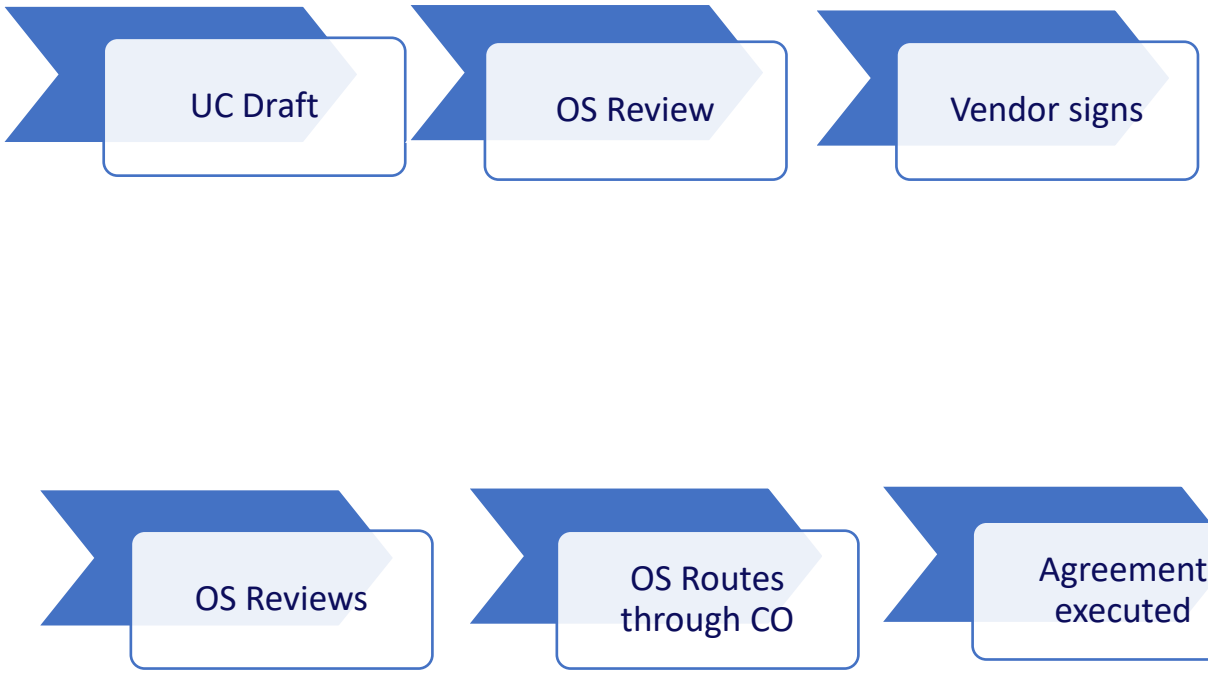
Agreement Steps



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Session 2:

Pre-Letting
INDOT / Consultant Utility Coordination

Kip Bunch
Ross Waggoner
Natalie Parks
Dirk Schmidt
Marc Rape
Josh Echterling

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Utility Work Plans

WORK PLAN SECTION 1

- **Section 1, A**
  - INDOT / LPA Project Information
- **Section 1, B**
  - Utility Designated Contact Information
- **Section 1, C**
  - By signing here, the Utility has determined to the best of their ability that they do not have facilities within the project area
- **Section 1, D**
  - INDOT / LPA Coordinator Contact Information

Subject:

Utility Relocation Work Plan for:	Enter the Utility Name
Facility Type:	Enter Facility Type- gas, water, etc.

Section 1: General Information

A. INDOT/LPA Project Information

1.	DES NO.:	Enter the DES#
2.	Route Number:	Enter the Route Number
3.	Location:	Enter the Location Information
4.	Work Type:	Enter the Project Work Type
5.	Letting Date:	Enter the Letting Date
6.	Date Work Plan Needed	Enter the Date Work Plan Required
7.	Target Date for Utility to be out of conflict with INDOT Project	Enter Target Date
	Intermediate Phase	Enter Target Date
	Intermediate Phase	Enter Target Date

B. Utility Designated Contact – Information

1.	Designated Contact Name:	Enter Designated Contact Name
2.	Office telephone:	Enter Office Telephone
3.	Mobile telephone:	Enter Mobile Telephone
4.	Email address:	Enter Email Address
5.	Agency name	Enter Agency/Utility Name
6.	Address:	Enter Address
7.	City, State, Zip Code:	Enter City, State, Zip
8.	Construction Emergency Contact:	
	Name:	Enter Contact Name
	Number:	Enter Phone Number

C. By signing here, the Utility has determined to the best of their ability that they do not have facilities within the project area:

Signature of Utility Representative Print Name Date

Note: A signature by the utility representative at item "(C)" fulfills the requirement to complete the rest of this form and affirms their contact information above is correct

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WORK PLAN SECTION 2

- **Section 2, A**
  - Describe what types of existing active and inactive facilities are present.
- **Section 2, B**
  - Describe the location of existing active and inactive facilities.
- **Section 2, C**
  - Describe what will be done with existing active and inactive facilities.
- **Section 2, D**
  - Describe the details of the proposed new facilities.
- **Section 2, E**
  - Describe the proposed location of the new facilities.
- **Section 2, F**
  - By signing here, the utility has determined to the best of their ability that they have facilities within the project area and facilities are not in conflict with the project based upon the plans received.

Section 2: A narrative description of existing facilities within the project limits and any facility relocation that will be required. [IAC 13-3-3(c)]

A. Describe what types of existing active and inactive facilities are present.

B. Describe the location of existing active and inactive facilities.

C. Describe what will be done with existing active and inactive facilities.

D. Describe the details of the proposed new facilities.

E. Describe the proposed location of the new facilities.

F. By signing here, the Utility has determined to the best of their ability that they have facilities within the project area and the facilities are not in conflict with the project based upon the plans received on <Enter Date Received Plans>

Signature of Utility Representative | Print Name | Date

Note: A signature by the utility representative at item "(F)" fulfills the requirement to complete the rest of this form and affirms their contact information above is correct.

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WORK PLAN SECTION 3, 4, 5

- **Section 3**
  - A statement whether the facility relocation is or is not dependent on the acquisition of addition property interests with a description of that work.
- **Section 4**
  - A statement whether the utility is or is not willing to allow the INDOT contractor to do the required work as part of the highway contract
- **Section 5**
  - From the date the work plan is approved by both parties; please provide the Utility's pre-construction scheduling information.

Section 3: A statement whether the facility relocation is or is not dependent on the acquisition of additional property interests with a description of that work. [IAC 13-3-3(c) (2) (B)]

Section 4: A statement whether the utility is or is not willing to allow the INDOT contractor to do the required work as part of the highway contract. [IAC 13-3-3(c) (3)]

Section 5: From the date the work plan is approved by both parties; please provide the Utility's pre-construction scheduling information. [IAC 13-3-3(c) (4), IAC 13-3-3(c) (5)]

A.	The expected lead time in calendar days to obtain required permits:	Enter Total Days
B.	The expected lead time in calendar days to obtain materials:	Enter Total Days
C.	The expected lead time in calendar days to schedule work crews:	Enter Total Days
D.	If the contractor is being selected by competitive bid what is the date of selection?	Enter Bid Date
E.	The expected lead time in calendar days to obtain new property interests:	Enter Days
F.	The earliest date when the utility could begin to implement the pre-construction activities of the work plan:	Enter Date
G.	The total number of calendar days for pre-construction activities: (accounting for concurrent activities)	Enter Total Days

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WORK PLAN SECTION 6

- **Section 6, A**
  - A statement whether the Facility relocation is or is not dependent on work to be done by another utility with a description of that work
- **Section 6, B**
  - A statement whether the facility relocation is or is not dependent on work to be done by the department or the department's contractor with a description of that work.
- **Section 6, C**
  - How many calendar days after the events identified in Sec. 6 A and B are completed can the utility begin construction.
- **Section 6, D**
  - The number of calendar days to complete the relocation work.

Section 6: The Utility Construction Scheduling Information. [IAC 13-3-3(c) (4), IAC 13-3-3(c) (5)]

A. A statement whether the facility relocation is or is not dependent on work to be done by another utility with a description of that work. [IAC 13-3-3(c)(2)(A)(i)]

1. Utility A, with a description of the required work.

2. Utility B, with a description of the required work.

3. Utility C, with a description of the required work.

B. A statement whether the facility relocation is or is not dependent on work to be done by the department or the department's contractor with a description of that work. [IAC 13-3- 3(c)(2)(A)(ii)]

1. Work item A

2. Work item B

3. Work item C

C. How many calendar days after the events identified in Sec 6 A and B are completed can the utility begin construction: Enter Total Days

D. The number of calendar days to complete the relocation work: Enter Total Relocation Days

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WORK PLAN SECTION 7, 8, 9, 10

- **Section 7**
  - A drawing of sufficient detail with station, offset, elevations, and scale to show the proposed location of facility relocation, which takes precedence over the narrative description of the work, needs to be on INDOT Construction drawings.
- **Section 8**
  - For each work plan the utility shall include a cost estimate for the facility relocation. For reimbursable work the estimate will identify betterment and salvage which is not reimbursable.
- **Section 9**
  - For work the utility is entitled to be compensated by the department, the work plan shall include documentation of property interests and compensable land rights.
- **Section 10**
  - The implementation of this approved work plan is dependent upon the issuance of: (a notice to proceed will be proved when items in section 6 are accomplished)
  - Signature of Utility Representative

Section 7: A drawing of sufficient detail with station, offset, elevations, and scale to show the proposed location of the facility relocation, which takes precedence over the narrative description of the work, needs to be on INDOT Construction drawings. [IAC 13-3-3(c) (6)]. Plans must be attached to this Work Plan Document.

Section 8: For each work plan the utility shall include a cost estimate for the facility relocation. For reimbursable work the estimate will identify betterment and salvage which is not reimbursable. [IAC 13-3-3(d)]

Section 9: For work the utility is entitled to be compensated by the Department, the work plan shall include documentation of property interests and compensable land rights. [IAC 13-3-3(d)]

Section 10: The implementation of this approved work plan is dependent upon the issuance of: (a notice to proceed will be provided when items in Section 6 are accomplished)

Items Completed	Yes	Not Applicable
An executed reimbursement agreement with INDOT/LPA:	☐	☐
A relocation permit from INDOT/LPA:	☐	☐

(Note: Double-click on box in Yes or NA to mark it with an "X")

_____ _____

Signature of Utility Representative Date

_____

Utility Representative Name Printed

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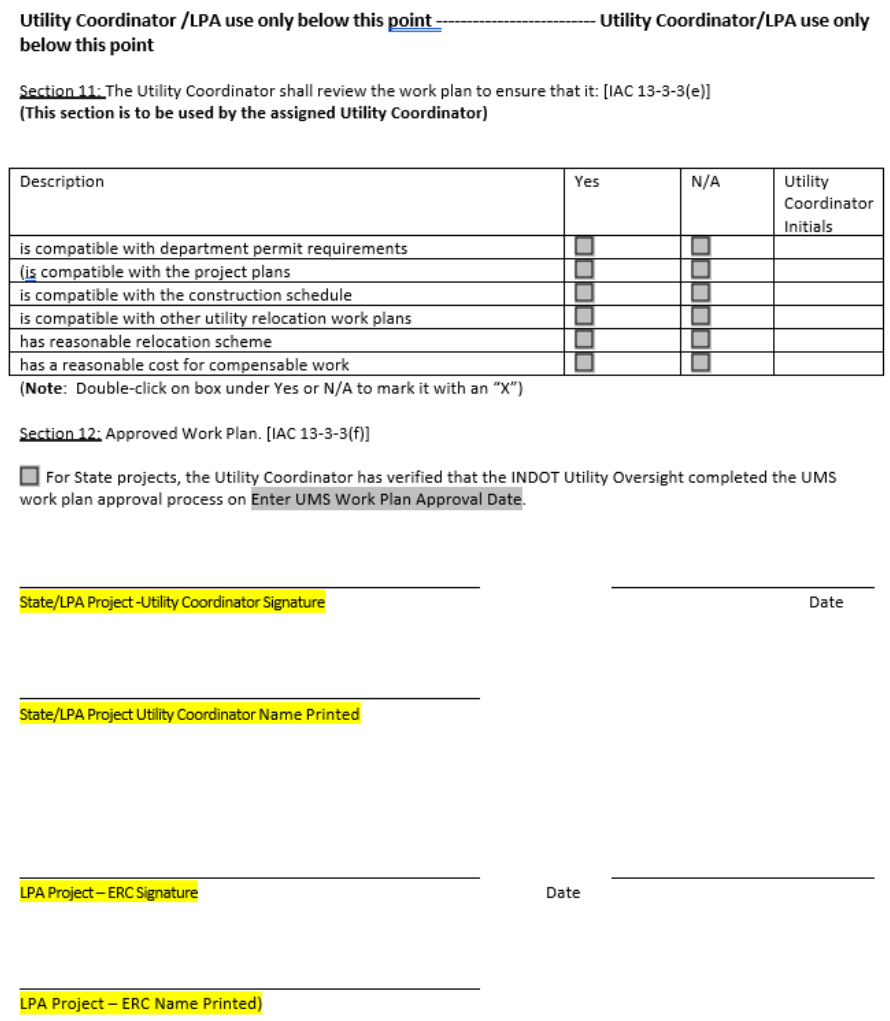
WORK PLAN SECTION 11, 12

- **Section 11**
  - The Utility Coordinator shall review the work plan to ensure that it:
    - Is compatible with department permit requirements
    - Is compatible with the project plans
    - Is compatible with the construction schedule
    - Is compatible with other utility relocation work plans
    - Has reasonable relocation scheme
    - Has a reasonable cost for compensable work
- **Section 12**
  - State / LPA Utility Coordinator signature.



Utility Coordinator /LPA use only below this point ---------- Utility Coordinator/LPA use only below this point

Section 11: The Utility Coordinator shall review the work plan to ensure that it: [IAC 13-3-3(e)]
(This section is to be used by the assigned Utility Coordinator)

Description	Yes	N/A	Utility Coordinator Initials
is compatible with department permit requirements	☐	☐	
(is compatible with the project plans	☐	☐	
is compatible with the construction schedule	☐	☐	
is compatible with other utility relocation work plans	☐	☐	
has reasonable relocation scheme	☐	☐	
has a reasonable cost for compensable work	☐	☐	

(**Note**: Double-click on box under Yes or N/A to mark it with an "X")

Section 12: Approved Work Plan. [IAC 13-3-3(f)]

☐ For State projects, the Utility Coordinator has verified that the INDOT Utility Oversight completed the UMS work plan approval process on Enter UMS Work Plan Approval Date.

State/LPA Project -Utility Coordinator Signature _____ Date _____

State/LPA Project Utility Coordinator Name Printed _____

LPA Project – ERC Signature _____ Date _____

LPA Project – ERC Name Printed) _____

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Build America – Buy America (BABA)

BUILD AMERICA BUY AMERICA

IRON or STEEL	• Has always been a Buy American requirement • This remains unchanged • De minimis threshold in 23 CFR 635.410(b)(4) holds
MANUFACTURED PRODUCTS	• Processed into specific form and shape • Combined with other materials • FHWA **had** a General Applicability Waiver
CONSTRUCTION MATERIALS	• New addition with the BIL • Non-ferrous metals, plastic & polymer based products, glass, fiber optic cable, optical fiber, lumber, drywall, engineered wood

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BUILD AMERICA BUY AMERICA – WHAT'S NEW

- Specific to MANUFACTURED PRODUCTS
- For projects obligated ***on or after October 1, 2025:***
  - Product must be manufactured in the US

WE ARE HERE

- For projects obligated ***on or after October 1, 2026:***
  - The product must be manufactured in the United States, **AND**
  - The cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is **greater than 55% of the total cost of all components.**

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BUILD AMERICA BUY AMERICA – DE MINIMIS

- **Construction Materials**
  - Total value of non-compliant materials
  - Lesser of $1,000,000 or 5% applicable costs
  - Still applies for steel or iron
- **Steel or Iron AND Construction Materials**
  - Less than $500,000
- De Minimis Waiver ***includes Manufactured products*** in the total value of non-compliant construction materials
- Small Grants: total award < $500,000, Buy America is waived for iron, steel, construction materials, & manufactured products

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BUILD AMERICA BUY AMERICA – APPLICABILITY

- **Utility and Railroad Relocations**
  - Applies if they are ***eligible*** for reimbursement
  - Applies if they have a ***utility agreement*** with INDOT
  - Does not apply if they are non-reimbursable
- **Utility and Railroad components *are included*** in the overall cost of non-compliant components
  - Needs to be communicated to Oversight, PM, and AE
  - Needs to be communicated to the Contractor

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Utility Work Plans: The Forgotten MOT

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UTILITY WORK PLAN MOT

- **WHY IT'S FORGOTTEN**
  - Works plans are often not developed until most of the Project impact is known
  - Project impact not always known until Stage 2 (or beyond)
- **WHY IT'S IMPORTANT**
  - Depending on the Project scope, Utility Work Plan MOT might be more impactful than the project
- **WHEN SHOULD UTILITIES BE RELOCATED**
  - Before Letting, After Letting, or With Construction
- **WHAT MOT ALTERNATIVES ARE FEASIBLE**
  - Site Dependent

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WHEN SHOULD RELOCATIONS OCCUR

- **BEFORE LETTING**
  - Advantages
    - No coordination required with Contract
    - Simpler scheduling for Contractor
    - Potentially shorter Contract Duration
- **AFTER LETTING**
  - Advantages
    - Project impact clearly defined
    - Right-of-Way typically cleared

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WHEN SHOULD RELOCATIONS OCCUR

- **WITH CONSTRUCTION**
  - Advantages
    - Allows the Contractor to observe the relocation and confirm the completed relocation does not conflict with the Contract
    - If closures are needed to complete the relocation, they can be rolled into closures under the Contract to reduce impacts to the public

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MOT ALTERNATIVES

- **SHOULDER CLOSURES**
  - Least impactful to the public
  - Can occur any time with minimal coordination
- **FLAGGING (WITH AND WITHOUT AFADS)**
  - More impactful to the public, but limited to when workers are present only
  - Can occur most any time with minimal coordination
- **TEMPORARY SIGNALS (PORTABLE)**
  - Similar impacts to flagging except that it is in effect when workers are not present (weather delay, nighttime, etc.)
  - Coordination needed to determine impacts from queuing to nearby intersections/driveways

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MOT ALTERNATIVES

- **DIRECTIONAL CLOSURE**
  - More complicated than complete closure
  - Better suited in an urban setting with several nearby alternative routes
  - Significant coordination needed to determine impact to adjacent routes
- **COMPLETE CLOSURE**
  - Not desired, but may be necessary due to site conditions
  - Significant coordination needed to determine impact to adjacent routes
- **UNCONVENTIONAL (NIGHTTIME, TEMP WIDENING, ETC.)**
  - May be appropriate for short duration or long duration work
  - Significant coordination needed

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Right-of-Way & Environmental Critical Path

OVERVIEW OF RELATIONSHIPS

- Before Utilities can begin relocations, right-of-way needs to be secured.
- Before right-of-way can be secured, the environmental document needs to be approved.
- Before the environmental document can be approved, right-of-way limits must be set.
- Before right-of-way limits can be set, we must know where utilities are going to relocate.

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UNDERSTANDING THE DELIVERABLE DUE DATE

- **The Goal**
  - Right-of-way Clear Certification at final tracings
    - 30 Days before RFC
- **Let with Exceptions**
  - Right-of-way let with exceptions certification completed 3 weeks before RFC.
    - 21 days before RFC
- **Exception Language**
  - Exception language submitted to PM at FT.
  - PM must submit exceptions to Dept. Director of District Project Delivery for approval.
  - Once approved, central office real estate will complete the certification

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BACKWARDS PASS SCHEDULE

- **Stage 3**
  - 152 Days before RFC
  - 122 Days before FT
- **ROW Process**
  - On average takes 18 months (540 days)
  - Right-of-way engineering needs to start 540 day before FT or 418 days (14 months) before Stage 3.
- **Buying Process**
  - Takes 10 months (300 days).
  - Buying must start 10 months before RFC or 5 months (178 days) before Stage 3.
- **Environmental Process**
  - Must be completed to start buying therefore, needs to be approved 6 months before Stage 3.
  - Average time for drafting is 4 months (120 days) thus, drafting must start 10 months before Stage 3.

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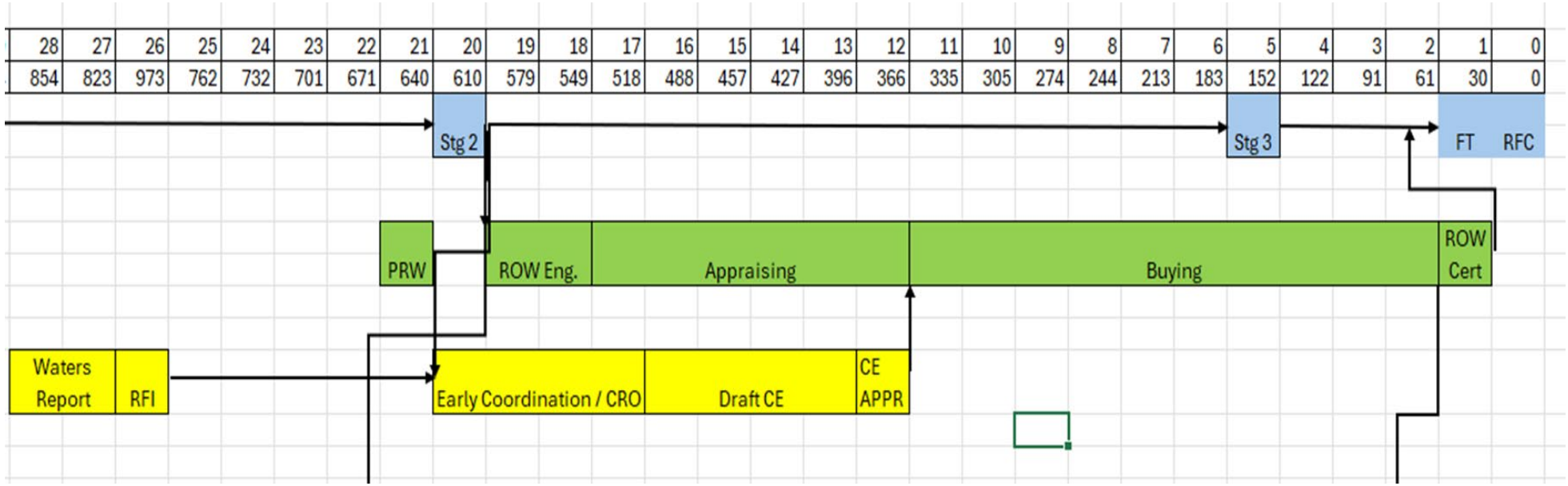
CRITICAL PATH FOR ROW AND DEFINED MILESTONES



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MITIGATION STRATEGIES

- Start RFI, Waters Report, and CRO reviews earlier.
- Work with our utility partners early, discuss their right-of-way needs.
- Do as much work as possible concurrently.
- Identify critical parcels.
- Consider if this project is a candidate for Map 21.
- Work with your project manager to determine if the project is a candidate for At-Risk Buying.

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Time Set and Form 107 (CIB)

Time Set & Form 107 (CIB)

Contract Prep, Utility Risk, and Field Application

Josh Echterling – INDOT Area Engineer

Purpose

STANDARDIZE TIME SET AND 107 LANGUAGE

REDUCE CHANGE ORDER REVIEW ISSUES

CLARIFY UTILITY EXCEPTION HANDLING

Time Set
(Contract Prep Document)

- Establishes contract duration BEFORE letting
- Defines completion dates and restrictions
- Based on production, constraints, and known risks
- Not intended to cover unknown delays

Time Set Inputs

- Quantities and production rates
- Maintenance of traffic and phasing
- Seasonal/weather limitations
- Known constraints (utilities, ROW, permits)

Utility Exceptions at Letting

- Contracts may be let before utilities relocate
- 107.26 documents known conditions
- Utilities may have long durations (30–360+ days)
- Dependencies may exist between utilities

107.26 – Utility Statements

- Defines existing conditions at time of letting
- Identifies utilities in conflict
- Provides estimated relocation durations
- Establishes communication and coordination expectations

Utility Sequencing Risk

Electric relocation enables fiber relocation

Fiber relocation enables telecom relocation

Gas relocation tied to ROW and structure conflicts

Creates stacked preconstruction critical path risk

Writing Better 107 Utility Language

Poor Utility Language Creates:

- Ambiguous scheduling assumptions
- Inflated contractor risk pricing
- Confusion about sequencing
- Unclear responsibility for coordination
- Increased risk of Change Orders

Writing Better 107 Utility Language

Better Utility Language Should:

- Define current utility status
- Separate preconstruction vs relocation durations
- Identify who initiates coordination
- State when the NTP was issued
- Help bidders build a realistic schedule

Example

plan provided with the contract letting documents for additional details. Following INDOTs contractor Right of Way to be staked 60 days prior to NIPSCO's facility relocation in the location of east side of SR 15 from STA 964+00 to STA 946+00; northwest corner of the intersection to STA 949+00 along SR 15 and to STA 8+00 along CR 146; southeast corner of the intersection on the east side of the railroad such that the utility may adjust its facilities, INDOTs Contractor shall notify the utility that the utility can begin. It is anticipated that the utility will take approximately 270 calendar days to complete its work plan. If questions arise, Chris Stalion of the utility may be contacted at (219) 629-4801 or cstalion@nisource.com. The work plan was approved on October 23, 2025.

vs

adjust its facilities, The utility coordinator shall notify NIPSCO that they may begin work. NIPSCO is expected to take approximately 420 calendar days to complete both its preconstruction and relocation activities. This includes 270 days of preconstruction and 150 days for relocation. The preconstruction notice to proceed was issued on 11/14/2025. If questions arise, Chris Stalion of the utility may be contacted at (219) 629-4801 or cstalion@nisource.com. The work plan was approved on October 23, 2025.

How Time Set Accounts for Utilities

- Base duration on contractor-controlled work
- Use phasing or restrictions where possible
- Do NOT necessarily add full utility durations to contract time
- FHWA does NOT participate in costs associated with ROW or utility delays

Why We May NOT Add Utility Durations

- Not all utility work impacts critical path
- Work may proceed concurrently
- Overstating time reduces competition
- Creates inefficiency

What Happens During Construction

CONTRACTOR DOCUMENTS ACTUAL IMPACTS

ENGINEER EVALUATES CRITICAL PATH IMPACT

TIME EXTENSIONS ISSUED IF JUSTIFIED

COSTS HANDLED VIA CHANGE ORDERS

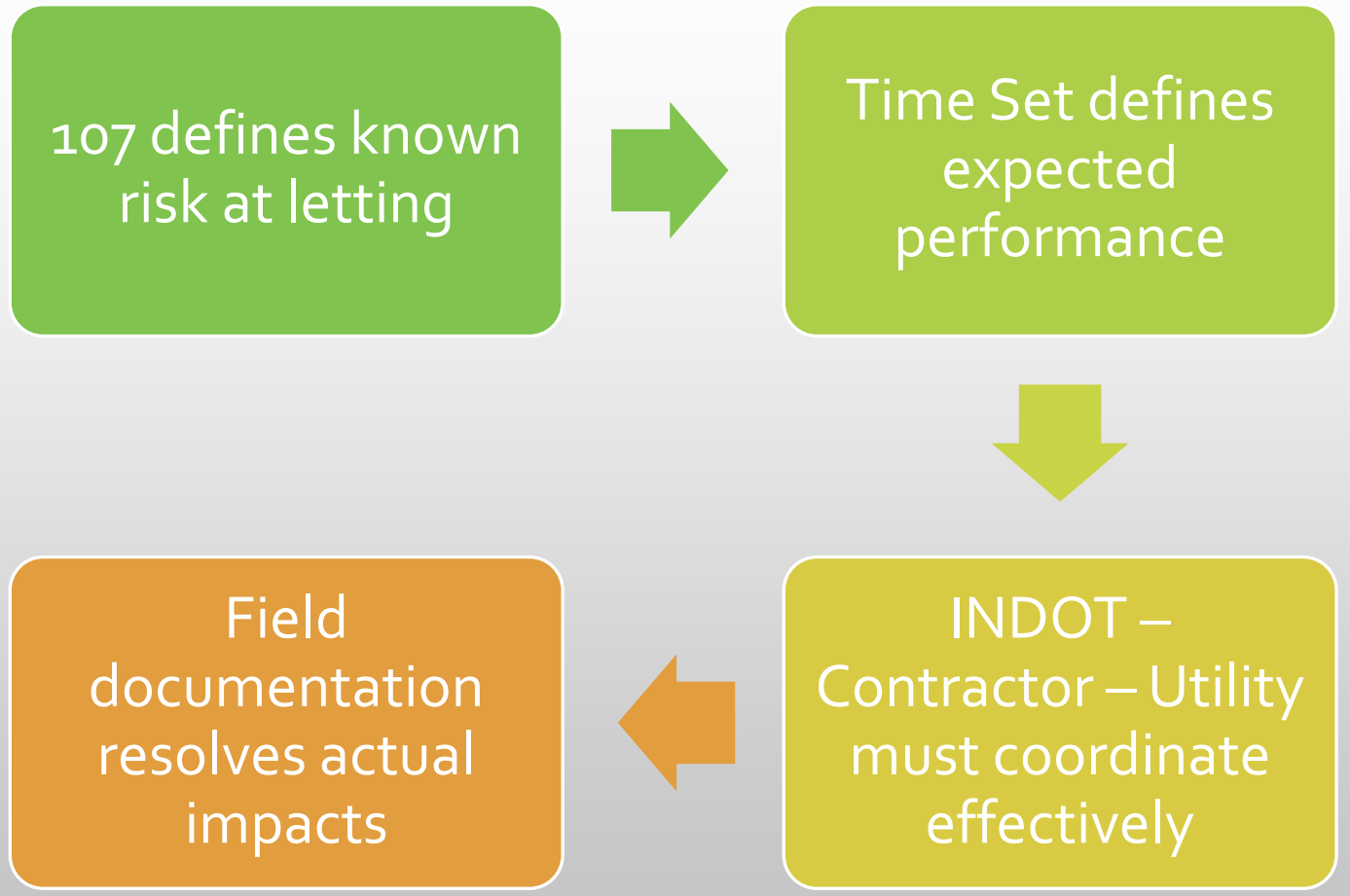
Field Documentation Flow

- Field condition identified
- Daily report documentation
- Time Extension created if delay exists
- Cost impact included in Change Order

Common Change Order Failures

- No link to critical path
- Double counting delays
- Weak justification language

Key Takeaway



Final Thought

"GOOD DOCUMENTATION WINS DISPUTES BEFORE THEY START."

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Utility Relocation Inspection Services

UTILITY RELOCATION INSPECTION

- **Purpose**
  - To Facilitate the inspection and verification necessary to monitor and document the proper execution of utility relocation activities identified in the provided work plans.

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SCOPE OF SERVICES

- Inspection of work plans
- On-site inspection and monitoring
- Documentation and reporting
  - 2 points to a physical location
  - GPS locates (x,y) .kmz file
  - Full SUE (x,y,&z) .kmz file
- Construction Coordination
- Communication
- Additional tasks and hours

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BREAK

Session 3:

Post-Letting Safety / Delays / Cost Concerns

Dustin Lambert
Sheryl Wise
Melissa Cool
Travis Moore
Micheal Koch

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Underground / Overhead Utility Concerns

Underground & Overhead Utility Concerns

Underground Utilities

- No mechanical equipment within 24” of a marked utility line, this means vertically and horizontally.
- Gas mains, water lines, sewer, fiber optic, and communication lines are all at risk during excavation, grading, and pipe work
- Potholing and SUE data are critical for verifying utility locations before construction begins
- Guardrail installation, pile driving, and beam setting all pose strike risks

Overhead Utilities

- Minimum clearance distances vary based on voltage of power lines
- Cranes, excavators, and other tall equipment must maintain safe distances from energized lines
- Coordination with utility owners is essential for temporary relocations or de-energizing

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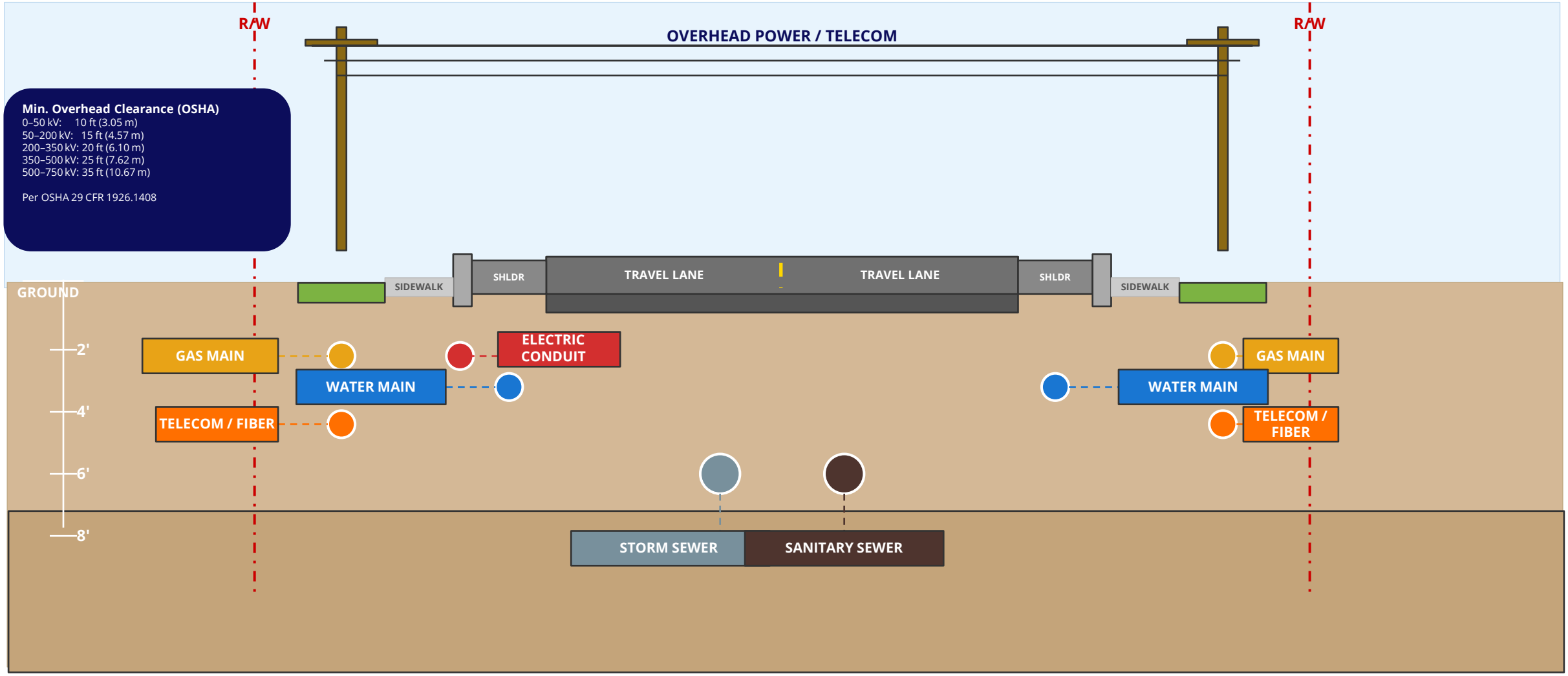
Typical Utility Locations — Roadway Cross-Section

Common underground and overhead utility placement within the right-of-way



Note: Actual utility locations vary by jurisdiction and project. Always verify with SUE data and potholing before construction.

Underground & Overhead Utility Concerns

- **Key Takeaway**
- Every aspect of roadway construction involves working around utilities. Early identification and constant communication are essential for safety.
- Push for SUE data to be out and available.
- Deenergize or Flagging of overhead lines at a minimum.

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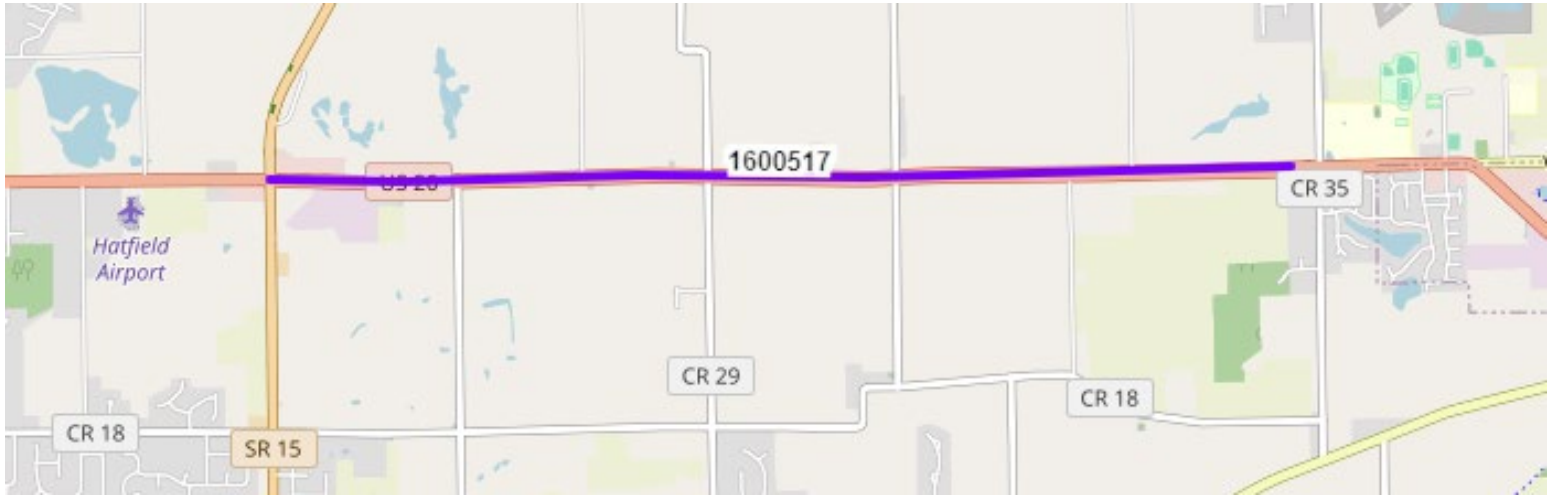
Lessons Learned

Lessons Learned – US 20

- 4 Mile Total Reconstruction, peat removal, structure installs, cement treatment, CR tie ins. (A lot of potential for utility impacts).
- Major utility relocation and house demo prior to start of our contract on a separate contract. (Huge Success)
- 6” high pressure gas main on N. side of US 20 that the project had to be designed around.
- Multiple Communication and Electrical Lines
- This job provided Contractors, INDOT, and Designers multiple opportunities to learn from.



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So we coordinated with utilities. Why do we need inspection holes?

0002	INSPECTION HOLE, DEEPER THAN 3 FT	$750.00	4.00000	0.00000	72.00000	68.00000
		EACH	$3,000.00	$0.00	$54,000.00	$51,000.00
0003	INSPECTION HOLE, 3 FT DEEP OR LESS	$600.00	4.00000	0.00000	34.00000	30.00000
		EACH	$2,400.00	$0.00	$20,400.00	$18,000.00

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US 20 Inspection Hole Numbers

- Contract included 8 inspection holes
- Fox logged 258 potholes
- INDOT paid 106 potholes
- 21 points of conflict found with utility higher than finished grade
- 36 potholes identified utilities within 2’ of finished grade

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US 20 Inspection Hole Numbers

- Despite conflicts, mainline was opened to traffic a week ahead of original intermediate completion date
- Result of Fox identifying conflicts early via potholing
- Fox and Milestone's willingness to move around when able (Major costs and delays avoided by all parties working together)
- Designer working to design around conflicts quickly
- Utility partners jumping on issues and resolving when needed

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Lessons Learned – US 20

- **Stuff to look out for when designing around Utilities.**
  - **CR tie ins and locations of utilities leading to and from mainline. Relocation should be accounted for in those areas.**
  - **Major Utilities and approximate locations to box or structure locations.**
  - **Push for Removal of old above ground utilities. (Not just overhead) This should include handholes or warming markers to not cause confusion for contractor or locators.**

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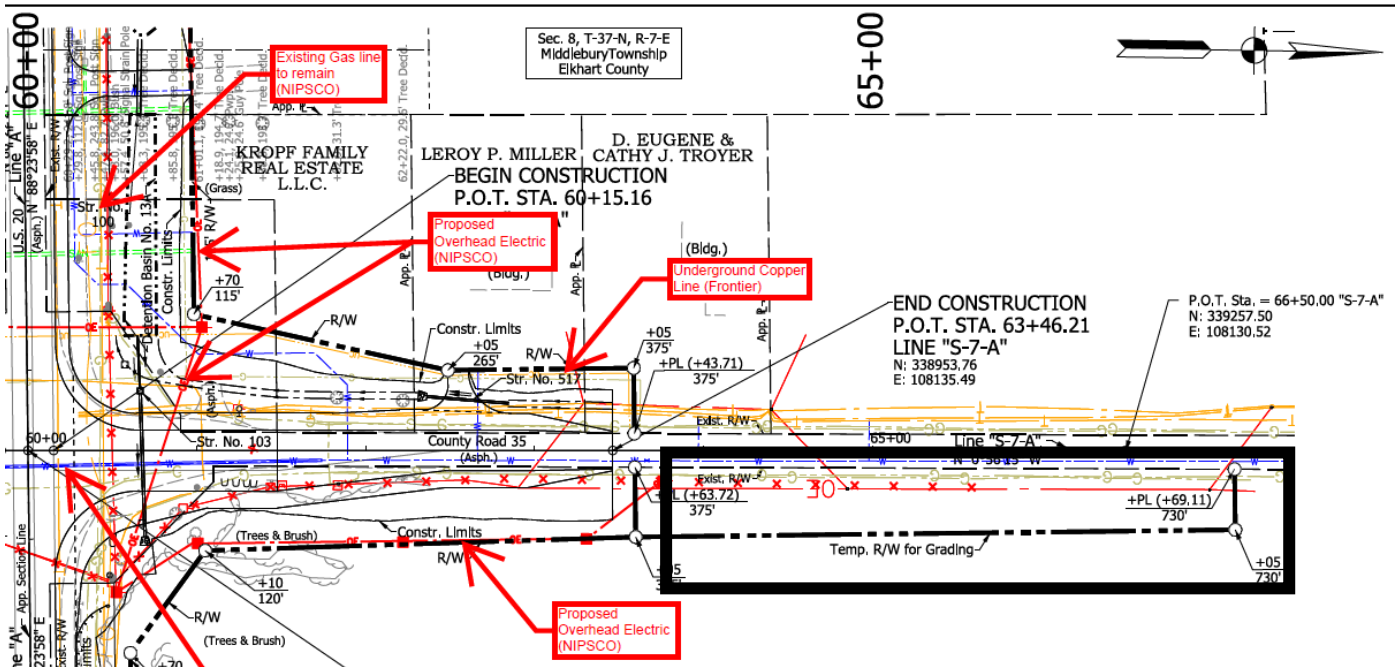

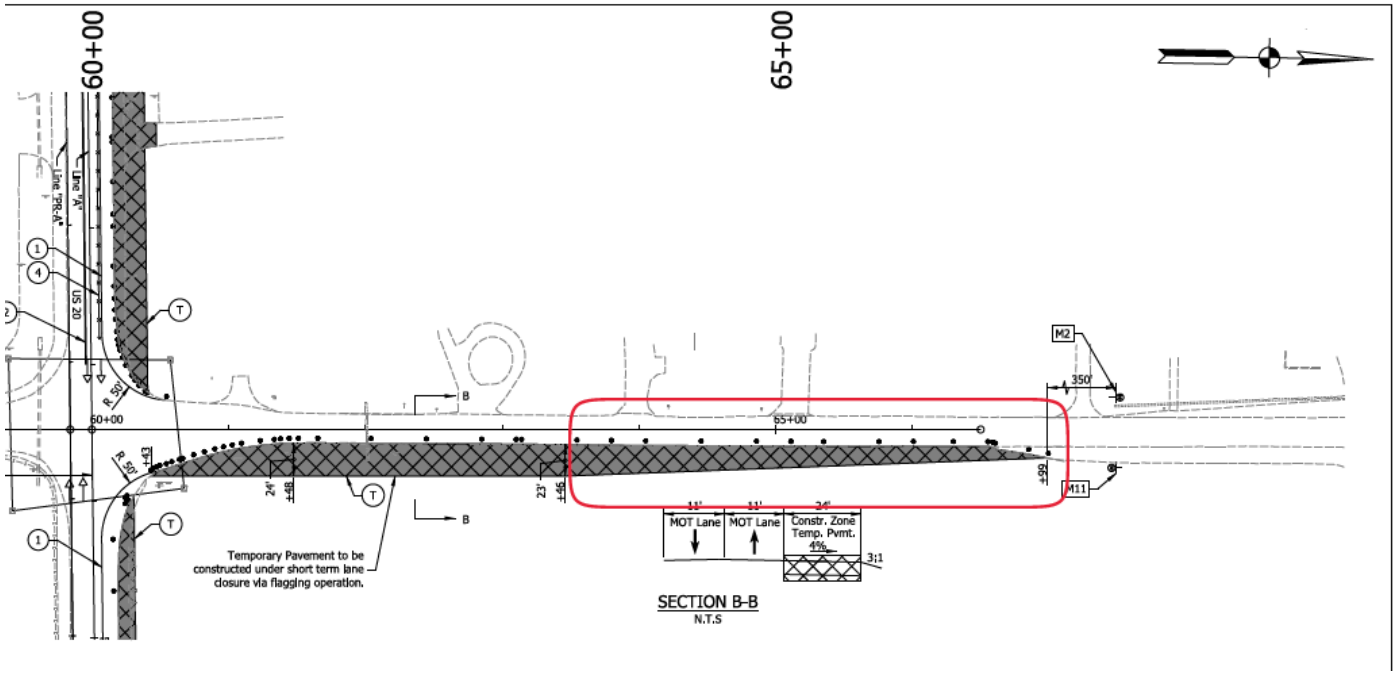

- **Generally, relocation plans are based on stage 2 plans**
- **Revisit relocation plans as plan changes occur**

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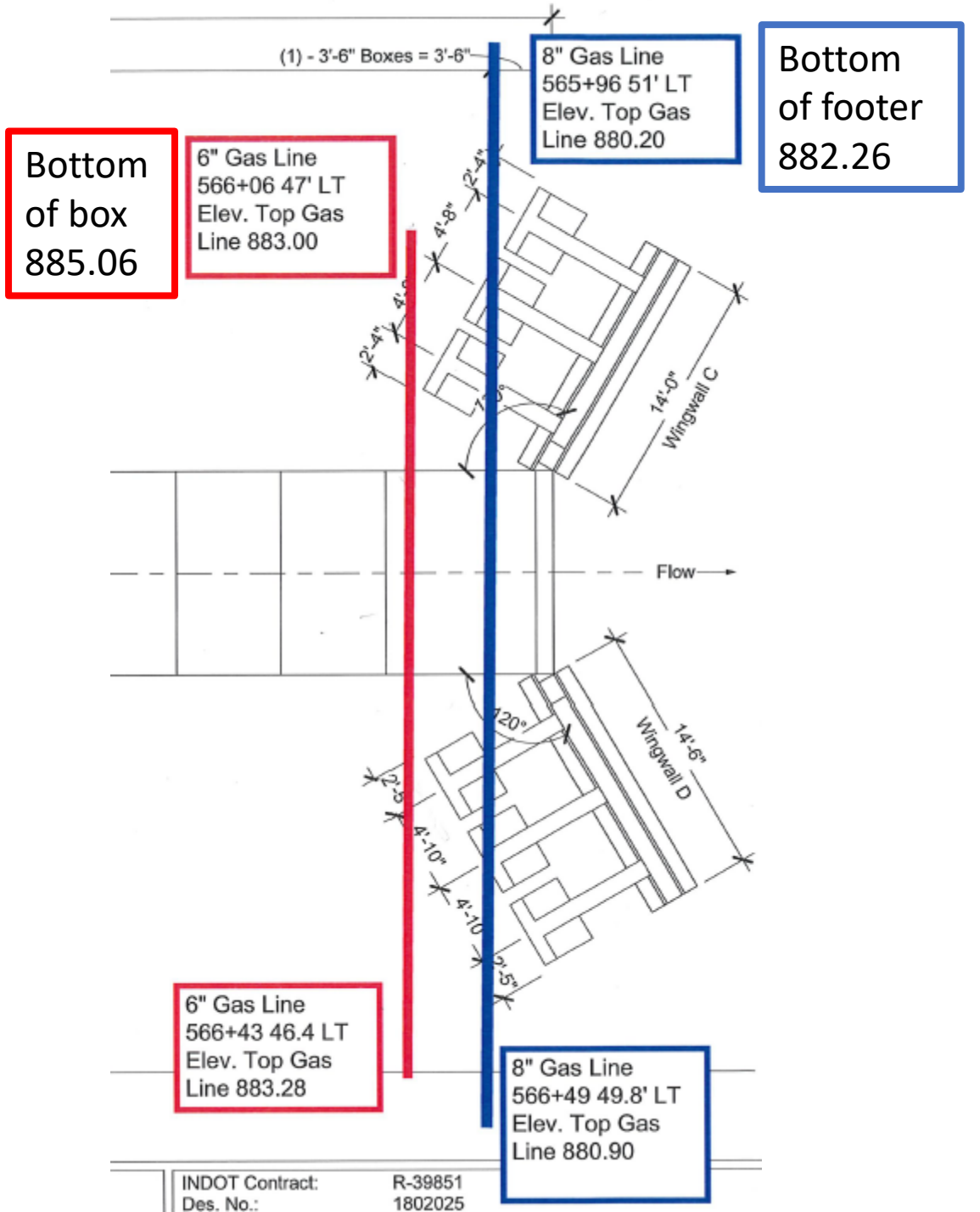
(1) - 3'-6" Boxes = 3'-6"
8" Gas Line
565+96 51' LT
Elev. Top Gas
Line 880.20
Bottom
of footer
882.26
Bottom
of box
885.06
6" Gas Line
566+06 47' LT
Elev. Top Gas
Line 883.00
4'-8"
2'-4"
14'-0"
Wingwall C
Flow
120°
14'-6"
Wingwall D
2'-5"
4'-10"
6" Gas Line
566+43 46.4 LT
Elev. Top Gas
Line 883.28
8" Gas Line
566+49 49.8' LT
Elev. Top Gas
Line 880.90
INDOT Contract:
R-39851
Des. No.:
1802025

Altered Shoring to allow for Installation

Old Facilities Left in Place…

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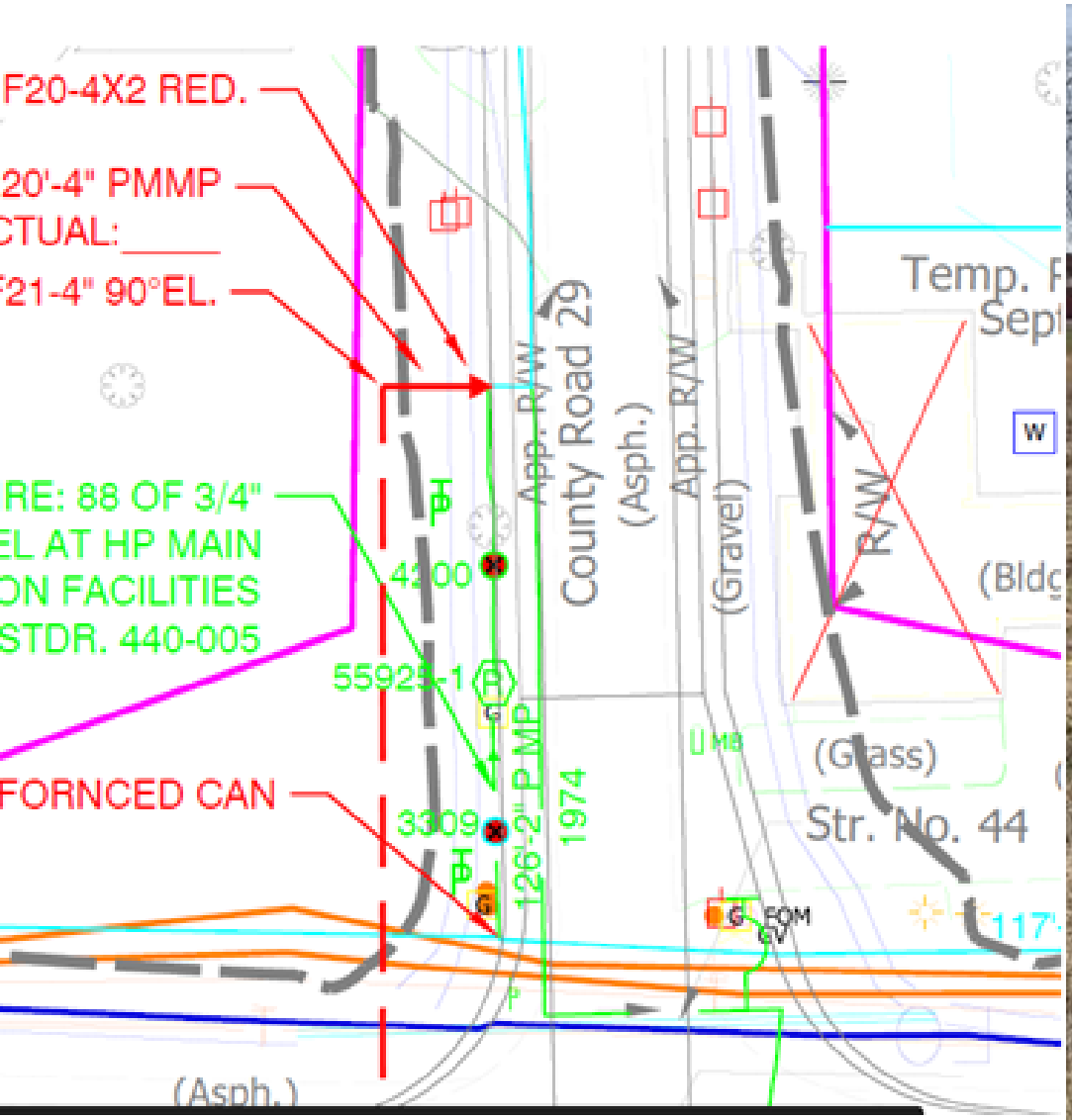

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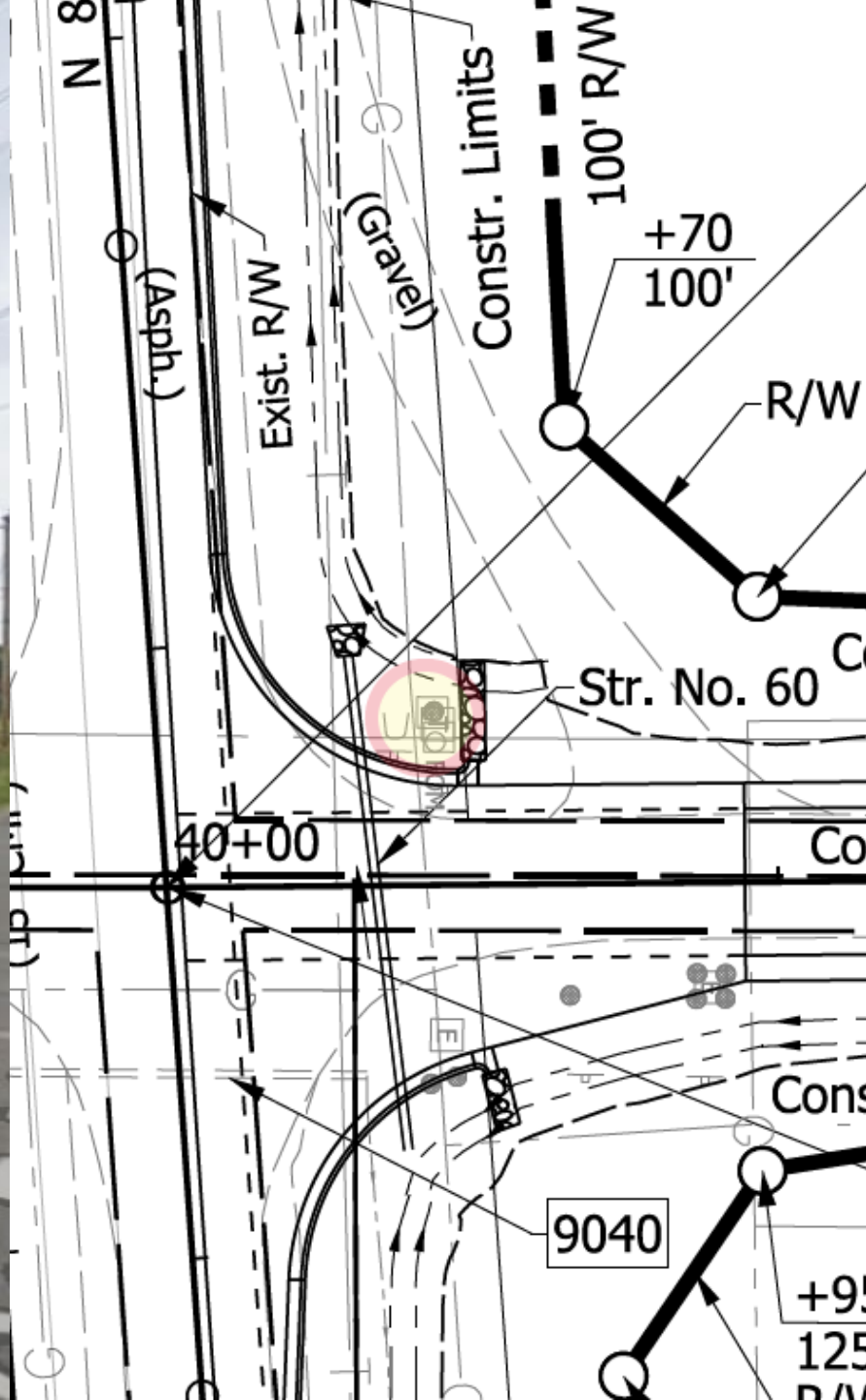
CR 31


N 8
(Asph.)
Exist. R/W
(Gravel)
Constr. Limits
100' R/W
+70
100'
R/W
Str. No. 60
40+00
9040

Lessons Learned – US 20

- **Positives from US 20**
  - **Great communication from all parties INDOT, Contractors, Designers, and Utilities.**
  - **If we had issues during construction solutions could be worked thru quicker as constant communication lead to great working relationships.**
  - **When issues arouse no one threw hands up and gave up, all parties stepped up to resolve the issue and keep things going. Utilities do not have to be a total project killer, but it takes everyone working together to fix the issue.**

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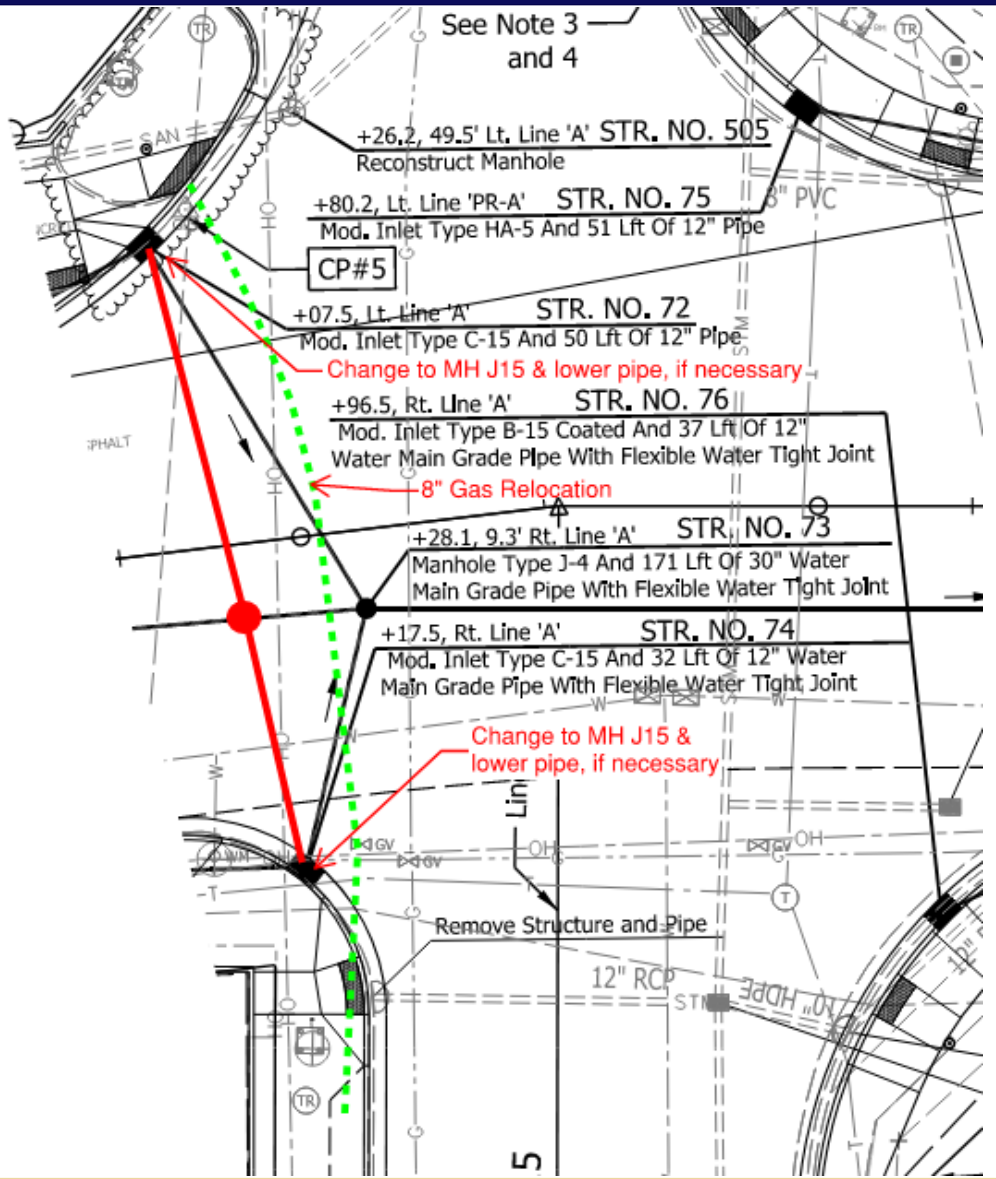
Utility Related Change Orders

Technically NOT Conflicting

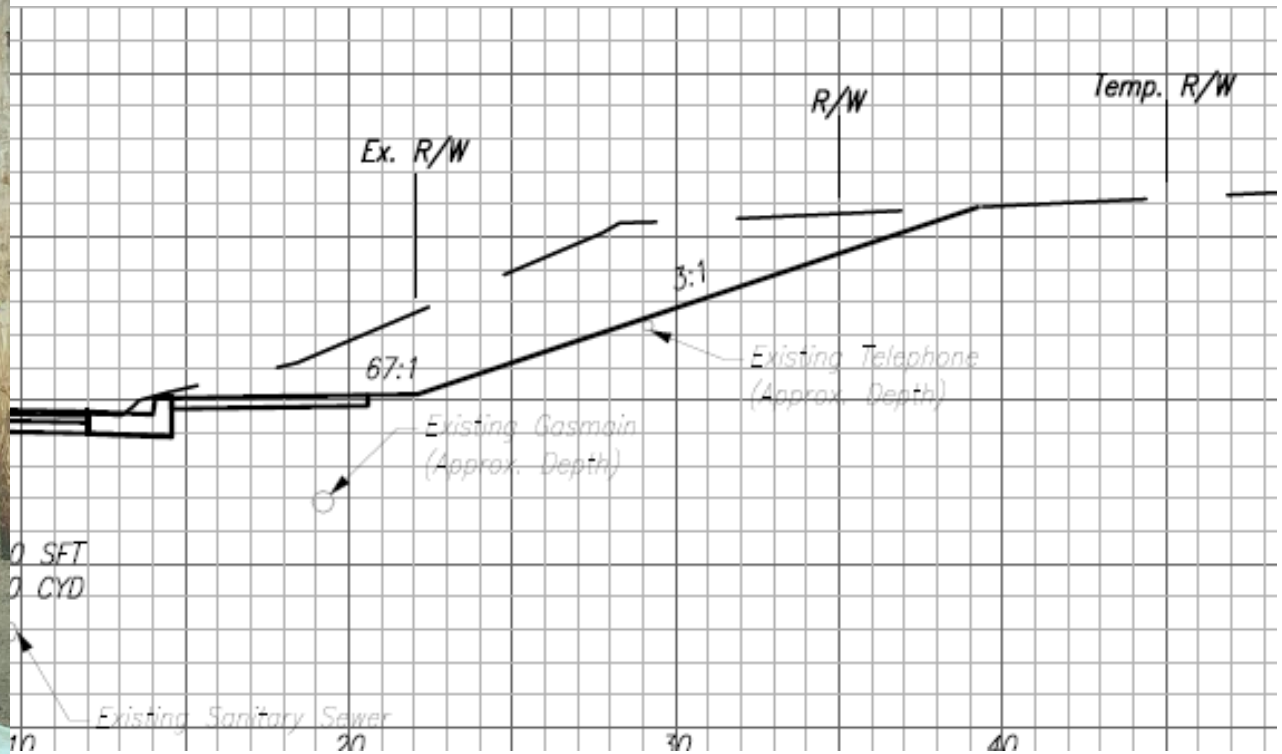
Dash Green: Relocated Gas

Black: Proposed Storm

Red: Amended storm

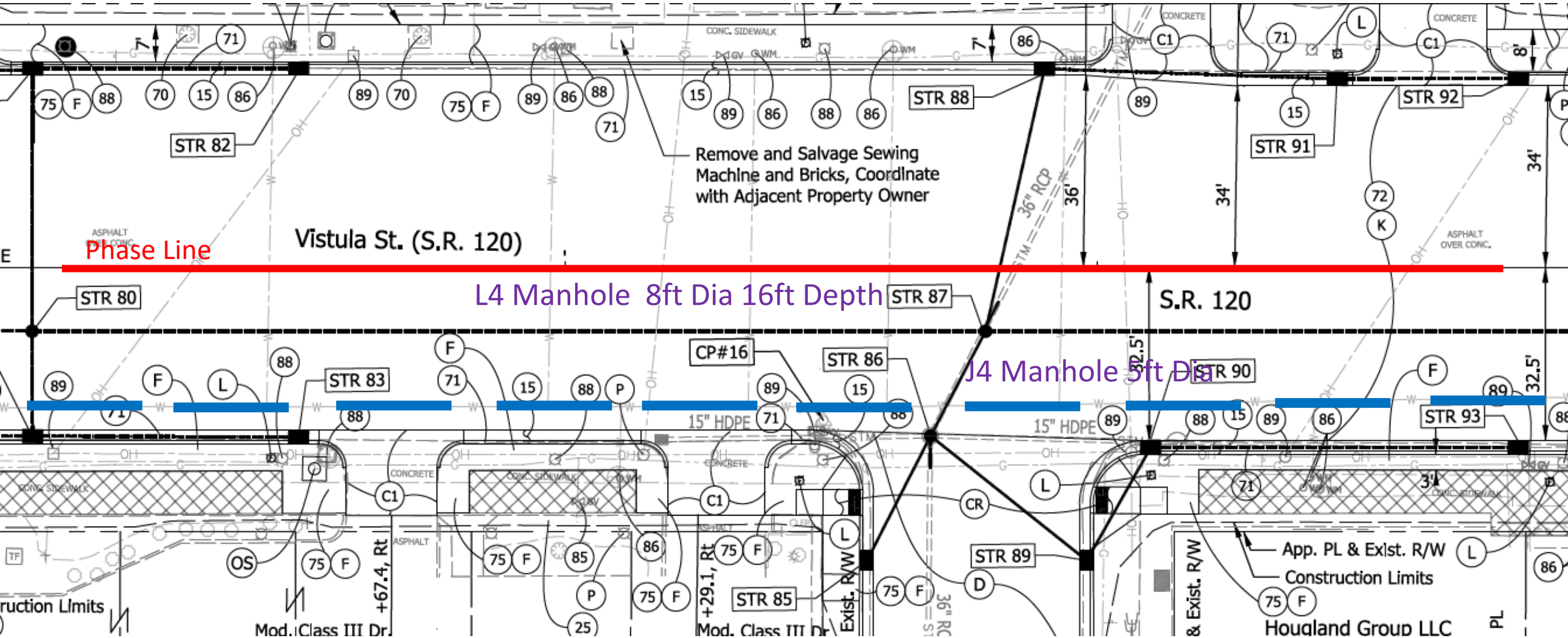


Proposed Cut/Fills & Relocation



Topped Electrical Poles with Lighting Services

- Included in Electrical Relocation?
- Temp Lighting Req?
- Has the Local Government been Coordinated with?

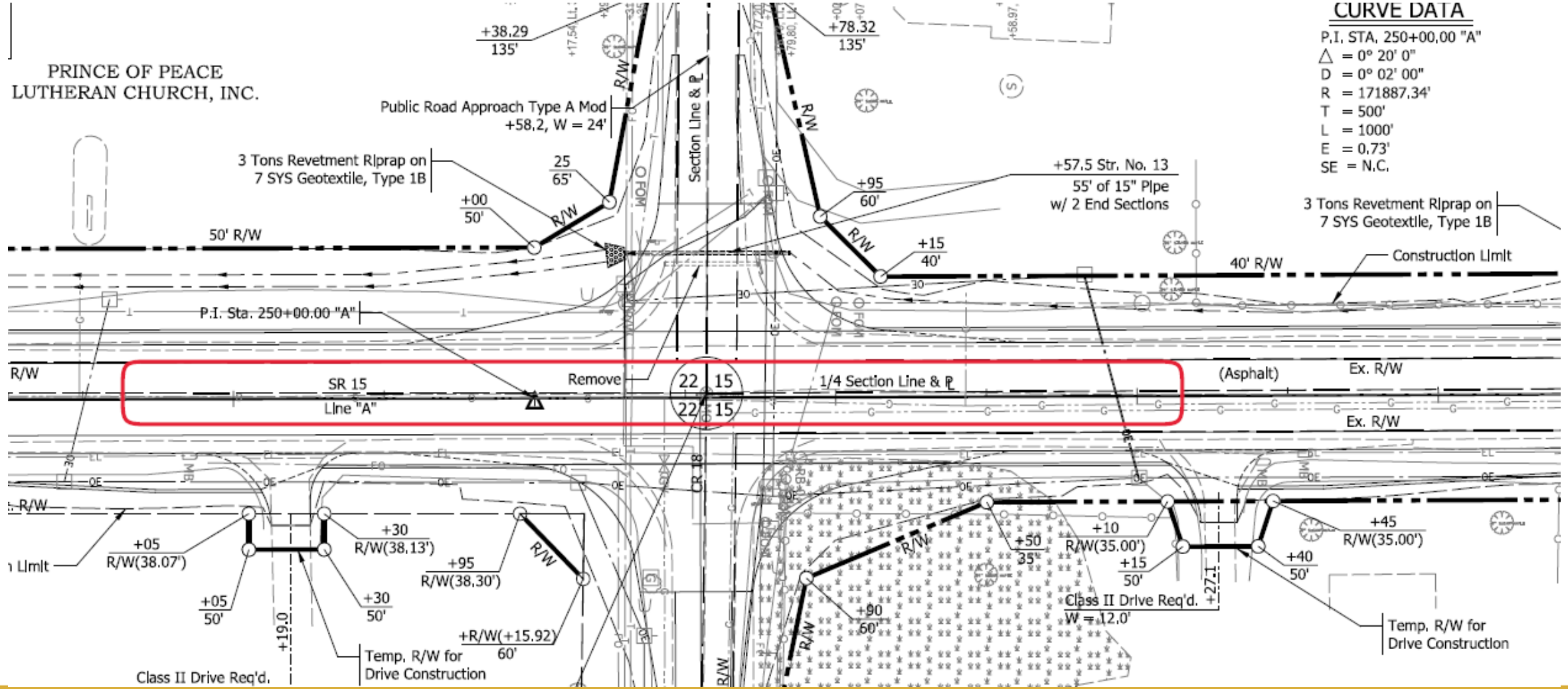

Phase Line
L4 Manhole 8ft Dia 16ft Depth
J4 Manhole 5ft Dia
Vistula St. (S.R. 120)
S.R. 120
STR 80
STR 82
STR 83
STR 85
STR 86
STR 87
STR 88
STR 89
STR 90
STR 91
STR 92
STR 93
CP#16
Remove and Salvage Sewing Machine and Bricks, Coordinate with Adjacent Property Owner
15" HDPE
36" RCP
CONC. SIDEWALK
CONCRETE
ASPHALT OVER CONC.
Mod. Class III Dr.
+67.4, Rt
+29.1, Rt
Exist. R/W
App. PL & Exist. R/W
Construction Limits
Hougland Group LLC

Test Hole Number	Approximate Station	Date	Type of Utility	Utility Size (OD) (Inches)	Material of Utility	Cross Section	Utility Direction	Approximate Offset	Survey Point ID Number	Northing	Easting	Existing Ground Elevation	Top of Utility Field Depth (Feet)	Elevation (Top of Utility)	Surface Type	Surface Thickness (Inches)	Quality Level	Notes
1	34+40	05-08-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	26.5' Right of Centerline	1000	508213.47	794195.87	770.05'	4.94'	765.11'	Natural Ground	-	QL A	Utility is untonable with no tracer wire present. Test hole performed on Bristol Water department 811 marks.
2	36+37	05-09-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	27.7' Rt of CL	1004	508241.29	794389.24	769.73'	4.69'	765.04'	Natural Ground	-	QL A	Utility is untonable with no tracer wire present. Test hole performed on Bristol Water department 811 marks.
3	35+61	05-09-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↕	22.7' Lt of CL	1002	508280.83	794307.15	769.41'	3.20'	766.21'	Natural Ground	-	QL A	
4	35+61	05-09-23	Gas Main/Pipeline	2.5"	Metallic (Iron, Steel, Coated)	○	↕	21.1' Right of Centerline	1001	508237.34	794312.97	769.69'	2.73'	766.96'	Natural Ground	-	QL A	
5	36+90	05-09-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↗	23.3' Lt of CL	1003	508299.09	794434.60	769.97'	3.18'	766.79'	Natural Ground	-	QL A	
6	37+75	05-09-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↗	23.2' Lt of CL	1008	508310.78	794519.52	770.26'	3.13'	767.13'	Natural Ground	-	QL A	
7	38+48	05-09-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	26.3' Rt of CL	1005	508271.62	794597.65	770.03'	4.80'	765.23'	Natural Ground	-	QL A	Utility is untonable with no tracer wire present. Test hole performed on Bristol Water department 811 marks.
7A	38+48	05-09-23	Telecom	(2) 1.75"	Plastic (PVC, PE, HDPE)	○○	↗	27.6' Rt of CL	1006	508270.38	794597.81	770.05'	1.95'	768.10'	Natural Ground	-	QL A	(2) 1.75" conduits.

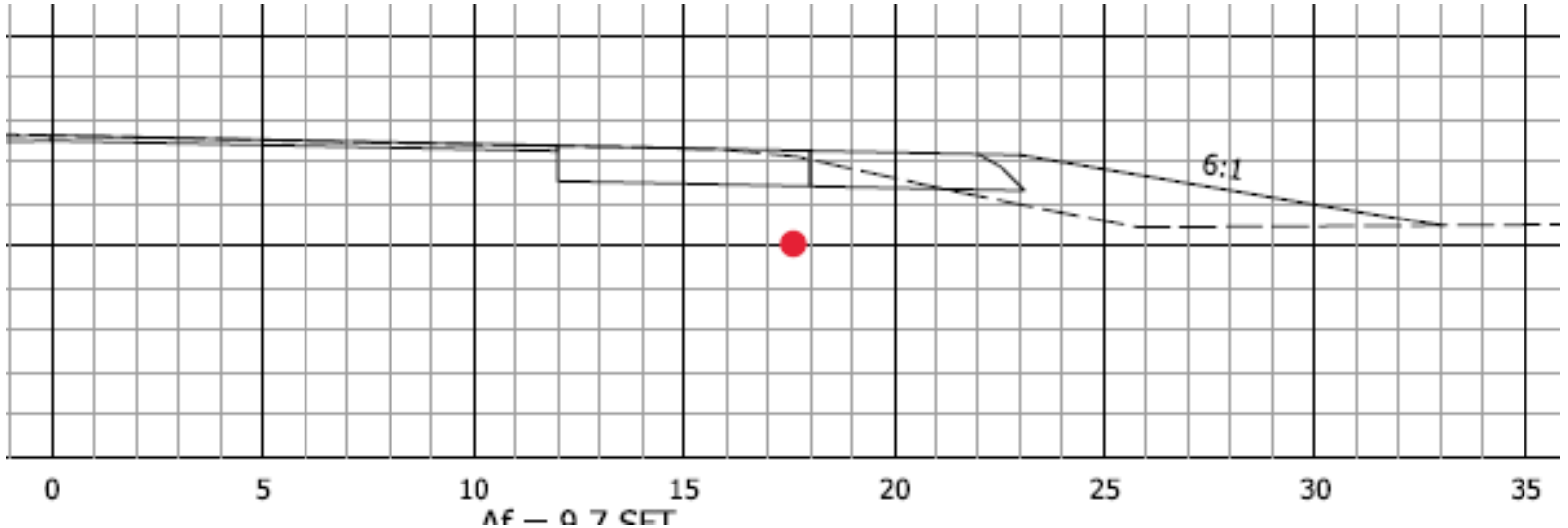
Water main	7"	Asbestos Cement (Transite)	◯	↗	27.9' Rt of CL

					Steel, Coated)													
11	41+12	05-10-23	Gas Main/Pipeline	5"	Metallic (Iron, Steel, Coated)	◯	↗	30.0' Rt of CL										
12	41+16	05-10-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	25.3' Rt of CL										
13	42+00	05-11-23	Water main	See Note	See Note	See Note	See Note	25.4' Rt of CL										
14	41+92	05-11-23	Gas Main/Pipeline	5"	Metallic (Iron, Steel, Coated)	◯	↗	30.4' Rt of CL										
15	41+91	05-12-23	Telecom	1.5"	Direct Buried Cable	○	↗	45.4' Rt of CL										
16	42+06	05-12-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↕	59.7' Rt of CL										
17	44+15	05-10-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	26.3' Rt of CL										
18	45+30	05-10-23	Telecom	2"	Plastic (PVC, PE, HDPE)	○	↗	26.3' Rt of CL										
19	45+30	05-10-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	26.0' Rt of CL										
20	45+30	05-10-23	Gas Main/Pipeline	5"	Metallic (Iron, Steel, Coated)	◯	↗	29.9' Rt of CL										
21	47+09	05-11-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	27.9' Rt of CL										
21A	47+07	05-11-23	Telecom	(2) 1.75"	Plastic (PVC, PE, HDPE)	○○	↗	27.6' Rt of CL										
21B	47+09	05-11-23	Street Light	(2) 1.25"	Plastic (PVC, PE, HDPE)	○○	↗	27.2' Rt of CL										
22	48+48	05-11-23	Fiber Optic	(2) 2"	Plastic (PVC, PE, HDPE)	○○	↗	28.1' Right of Cen										
23	48+93	05-11-23	Gas Main/Pipeline	5"	Metallic (Iron, Steel, Coated)	◯	↗	27.7' Rt of CL										
24	48+93	05-11-23	Water main	7"	Asbestos Cement (Transite)	◯	↗	25.6' Rt of CL										
25	48+91	05-11-23	Telecom	(2) 1.5"	Direct Buried Cable	○○	↗	25.8' Rt of CL										
26	49+88	05-14-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↗	25.2' Lt of CL										
27	51+27	05-12-23	Gas Main/Pipeline	2"	Metallic (Iron, Steel, Coated)	○	↗	24.2' Lt of CL	1030	508497.59	795857.40	770.58'	3.45'	767.13'	Natural Ground	-	QL A	
28	51+75	05-16-23	Water main	See Note	Asbestos Cement (Transite)	◯	↗	27.6' Rt of CL	1031	508452.82	795911.94	770.49'	5.02'	765.47'	Natural Ground	-	QL A	Visually verified pipe before soil collapsed. Depth measured by probing due to collapsed soil. Water main is untonable. Test hole performed on Bristol 811 marks.
29	51+75	05-15-23	Telecom	2"	Direct Buried Cable	○	↗	26.8' Rt of CL	1032	508453.63	795911.78	770.52'	1.83'	768.69'	Natural Ground	-	QL A	

Gas Main along Centerline?



Numerous Inspection Holes Determined Gas within Existing Ditch and Proposed Pavement



Session 4:

Post-Letting 811 Process / Locator Interactions

Dustin Lambert
Adam Hertel
Justin York

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811 in Construction / Locator Interactions

Submitting an 811 Ticket

- Ways to Submit a ticket in 811
  - Phone
  - Online (can be done after training is completed)

- Utilities required to mark within 2 full working days or before start date listed on ticket

- Tickets are active for 20 days from day of request

- Must be done on all jobs for all contractors working on said job.
  - Subcontractors can not utilize primes ticket.
  - Ticket Numbers can be shared to help create contractor's own ticket.

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Limitations of Calling in Tickets

- Max Length of Ticket Allowed
  - City Limits 1500’
  - Outside City Limits ½ Mile

- Max Radius is 200’ at intersections in town. 300’ outside of town

- When the street divides townships you must call in locates for each township side (Bass Road Project)

- When on a highway that has barrier wall dividing the center you must call in each side of the road, doubling your ticket.

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Limitations with Online Tickets

Locators cannot see
811 Exactix Map in the field
(can see attachments)

Excavator has **NOT** indicated that Work is Complete.

Show Confirmation

Map | Attachments (1) | Help

Excavator Information

Help

Excavator ID: 534393
Company ID: 54061
What is the best phone number to reach you? (260) 469-6137
Caller or person creating: AMY ALLEN
Caller Type: CONTRACTOR
Company digging: BROOKS CONSTRUCTION CO INC
Office: FORT WAYNE
Mailing address of the person or company digging:
6525 ARDMORE AVE, FORT WAYNE, IN, 46899
Email: TARENKENBERGER@BROOKS1ST.COM
Fax:
Work being done for: AEP
Job ID:
Name of the Person Excavating: TODD RENKENBERGER
Phone: (260) 410-5785

Dates & Information

Help

Ticket Type: Normal Notice
Requested Start Date and Time: 05/08/2026 07:00 AM
Expires on: 05/26/2026 11:59 PM
Update by: 05/21/2026 06:59 AM
Notes/Remarks:

Mandatory Questions

Help

What type of work is being done?
EXCAVATE A NEW DRIVE ENTRANCE & PLACE STONE
How long will it take to complete the job? 2 Months
At the deepest, how many feet will you be digging? 10 FT
Will there be any explosives or blasting? No

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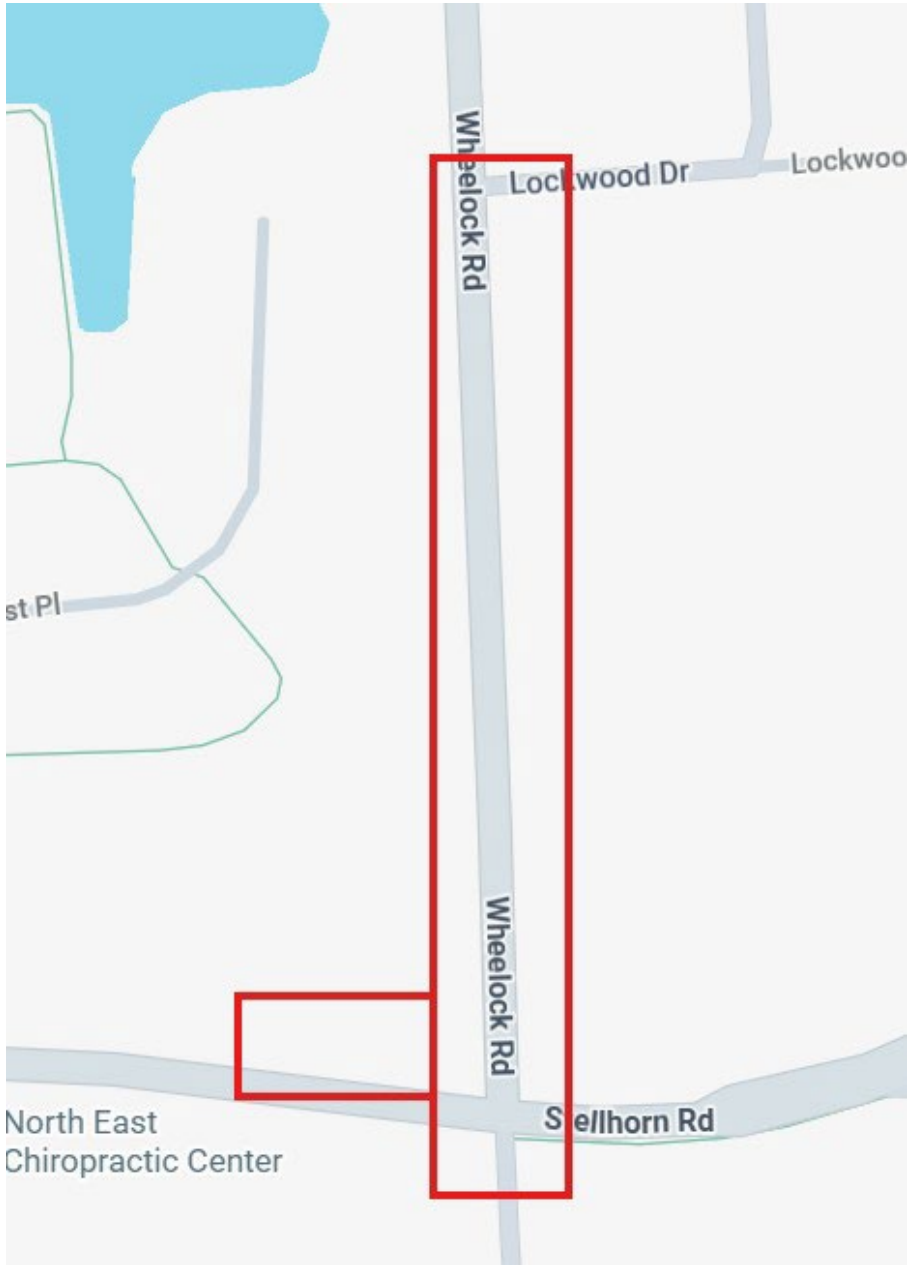
Example of Job

- **Wheelock Road Ped Trail**
  - **5 tickets to cover this area.**
  - **This had to be called in every two weeks for 2 months (Multiple other contractors working in same area)**



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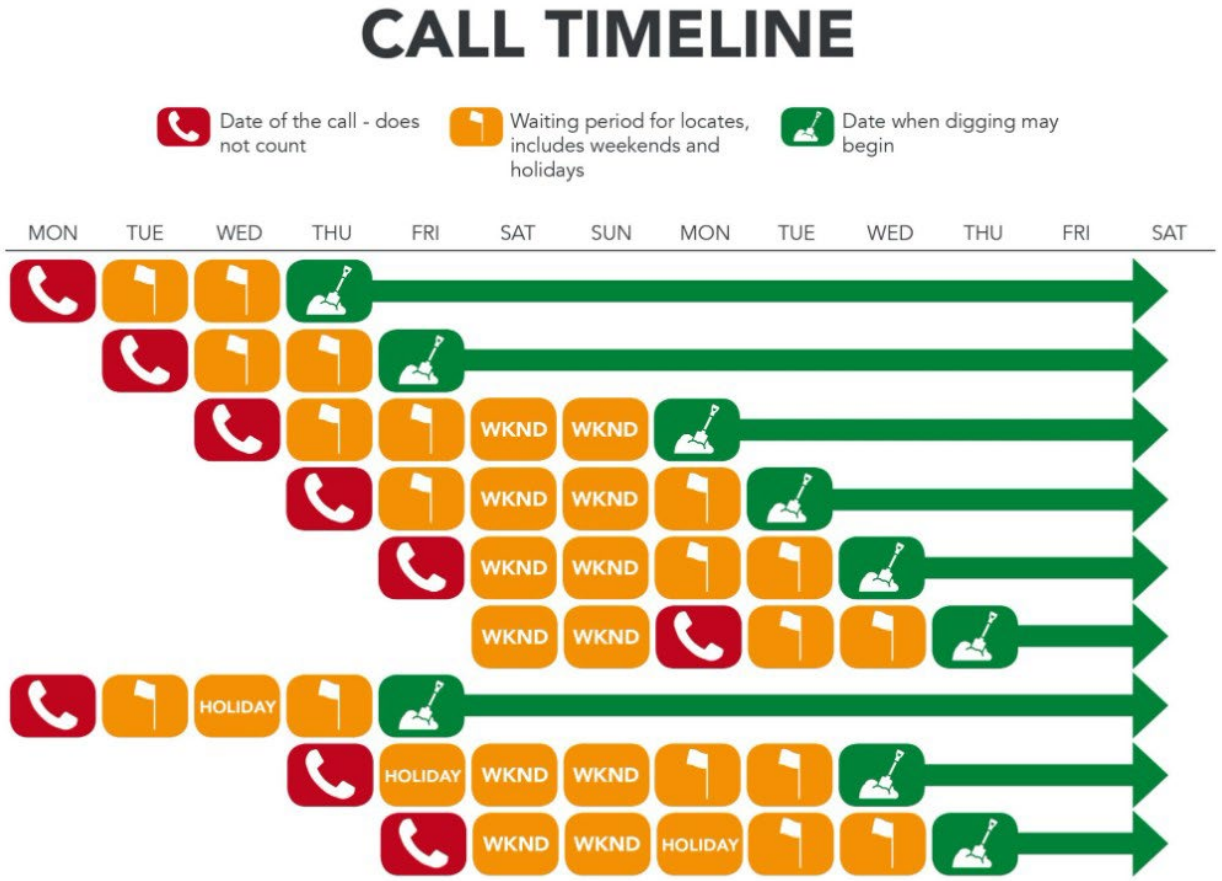
Timeline of Locating

- **Locator has two full days to locate (not including day of call in)**



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Final Step

- **Even after the 2 full days the ticket is still not officially active until responses are checked.**
  - **Someone must check and responses must say clear or marked!**
  - **Examples in the field on lines being damaged (that were marked) and first thing the locator asks when they show up is if the responses were viewed.**
  - **If after the days and no responses you can call in 2nd, 3rd, or on couple occasions 4th notices.**

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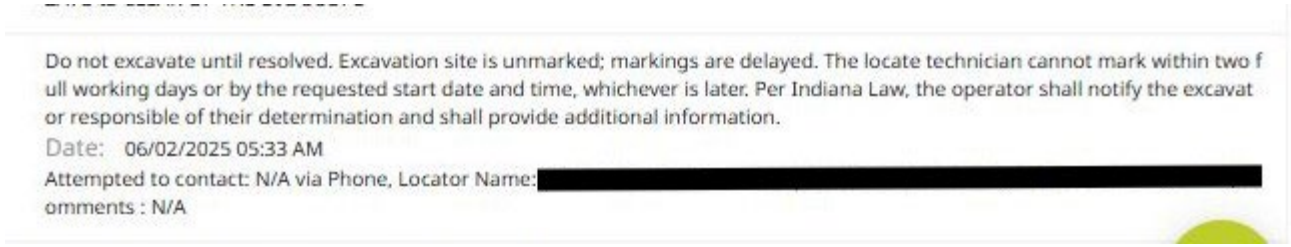
Issues Being Faced with Locating

- **With amount of workload and new technology we are starting to get “phantom” responses back.**



  - **“All Clear” messages back when we know that the utility is in the area. This causes us to have to spend extra hours tracking down contacts and setting up meetings to prove they are there. (HUGE SAFETY CONCERN!)**

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What Locators are up Against

- Volume of Tickets being called in Daily (Exceeding 10,000)
- Some of the same large jobs being called in every two weeks, by multiple contractors
- Pulled in different directions due to emergencies that are faced everyday.
- Relocations not being up to date after completion for locators to mark.

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What is Needed

- **Communication!!!**
  - **3 years ago, locators would call daily asking questions about jobs, talk timelines etc.**
  - **Now no one calls, push to dates to their choosing, no communication.**

- **Online process needs streamlined or cleaned up**
  - **Find a way to still have face to face or voice communication not relying on AI as much.**

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Session 5:

Breakout Discussions

What do you hope to discuss at the Fall Utility Summit?

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Thank You / Closing Statements

Jason Spreen

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