MECO-HENEGHAN ENGINEERS, LLC
CIVIL / STRUCTURAL / ELECTRICAL / MECHANICAL ENGINEERS
3120 Palmyra Road | Hannibal, MO 63401 | P: 636-395-7055

Addendum No. 1

for

"Phase 1b – Contract F – Finished Water Transmission Main"

Illinois Alluvial Regional Water Company
Jersey County, Illinois

H&A File No. 71000-412 Contract "F"
September 30, 2026

The Contract Documents prepared by MECO-Heneghan Engineers, LLC for Phase 1b Contract "F" for the Illinois Alluvial Regional Water Company are hereby amended or clarified as follows:

PROJECT SPECIFICATIONS
Changes/additions/clarifications to the project specifications are as listed below:

General Specifications:

- An updated **BID FORM FOR CONSTRUCTION CONTRACT 9/30/26** is included with this addendum, only bids submitted on this bid form will be accepted.

    - Updated numbering for bid items to reflect revisions contained in this addendum.
    - Removed bid item #5 St Marys Road Crossing – Jack and Bore 48" Steel Outer Casing includes Carrier Pipe and added to Alternate Bid A, revised quantity.
    - Removed bid item #6 Bethany Church Road Crossing – Jack and Bore 48" Steel Outer Casing includes Carrier Pipe and added to Alternate Bid A.
    - Removed bid item #7 Central Road Crossing – Jack and Bore 48" Steel Outer Casing includes Carrier Pipe and added to Alternate Bid A.
    - Removed bid item #11 Directional Bore St Marys Road Crossing – 1-1/4" HDPE SDR 11 Fiber Optic Conduit and added to Alternate Bid A.
    - Removed bid item #12 Directional Bore Bethany Church Road Crossing – 1-1/4" HDPE SDR 11 Fiber Optic Conduit and added to Alternate Bid A.
    - Removed bid item #13 Directional Bore Central Road Crossing – 1-1/4" HDPE SDR 11 Fiber Optic Conduit and added to Alternate Bid A.
    - Added bid item #5 36" Gate Valve with Spur Gear or Bevel Gear Actuator and Valve Box
    - Revised bid item #8 Costello Road Crossing – Jack and Bore 48" Steel Outer Casing includes Carrier Pipe quantity
    - Revised bid item #14 Directional Bore Costello Road Crossing – 1-1/4" HDPE SDR 11 Fiber Optic Conduit quantity
    - Revised bid item #16 Backfill Typical quantity
    - Revised bid item #17 Backfill Type 5 Full Depth quantity
    - Revised bid item #24 1-1/4" HDPE CONDUIT, SDR 11 quantity
    - Added alternate bid item #2A Washington School Road Crossing – Jack and Bore 48" Steel Outer Casing includes Carrier Pipe to Alternate Bid A.
    - Added alternate bid item #6A Directional Bore Washington School Road Crossing – 1-1/4" HDPE SDR 11 Fiber Optic Conduit Alternate Bid A.

Technical Provisions:

- Tangential fittings
    1. Fittings are manufactured of ductile iron, grade 70-50-05 (minimum tensile strength: 70,000 psi; minimum yield strength: 50,000 psi: minimum elongation: 5%) in accordance with AWWA C110 or C153.
    2. Pipes are manufactured of ductile iron, grade 60-42-10; (minimum tensile strength: 60,000 psi; minimum yield strength: 42,000 psi; minimum elongation: 10%) in accordance with AWWA C151.
    3. Flange adaptors for AWWA C110/C115 Flange to ANSI/ASME B16.1 Class 250 Flange are manufactured of ASTM A36 steel.
    4. Flanges and static-cast MJ bells can be tapped for studs when specified by the purchaser.
    5. All pressure ratings shown are suggested standard and are for water service.
    6. Unless otherwise noted, all cast-on flanges are per AWWA C110 or C153.
    7. All Mechanical Joints comply with AWWA C111. Threaded-on or otherwise fabricated MJ bells are per applicable portions of AWWA C115 and C153. Weights of MJ accessories are not included in weights of fittings with MJ outlets shown in tables, unless otherwise specified.
    8. Weights of fittings can vary due to changes in foundry practice.

- **Specification 338223 for Optical Fiber Communications Transmission and Distributing Cabling**
  2.01 Manufacturers – Add Optical Cable Corporation (OCC) as an approved equal.

- HDPE pipe must be Ductile Iron Pipe Size (DIPS). Iron Pipe Size (IPS) is not permitted.

- Inside the HDPE conduit for Fiber Optic, the contractor shall provide and install a locate wire that is per 330500.2.05.D.

- **Specification 330523.13 for Highway Crossings**
  2.02.F Casing Pipe – replace with the following:
  Length of casing shall be as shown on the plans or at a minimum at least 10 feet beyond the edge of pavement.

PROJECT DRAWINGS
Changes/additions/clarifications to the project specifications are as listed below:

- **Sheet 2-HDPE** – Type 5 Backfill Full Depth shall be required for crossing Washington School Road. Plan sheet is attached. This quantity is included in the updated Bid Form.

- **Sheet CD1** – Option A with only sand is allowed. Rock stored for Type 5 full depth shall not be in a field without written consent from the landowner with copy to the ENGINEER.

- **Sheet CD1** – The fiber optic conduit is currently shown in a separate trench below the water main. Alternatively, it may be placed within the water main bedding, provided a minimum vertical separation of 6 inches is still maintained.

- **Sheet CD2** – The Blow-Off Hydrant Detail currently shows a tangential tee. A reducing tee with a downward outlet and a 90-degree bend may be used in place of the tangential tee.

- **Sheet CD2** – The Gate Valve Detail currently shows both Spur Gear and Bevel Gear gate valves. The gate valve shall be installed with 42-inches of cover above the operating nut. Therefore, bevel gears should be used where spur gears cannot be meet the 42-inches of cover.

- Add Gate Valves Spur/Bevel, modifications to depth of main adjusted during construction, at the following locations:
    - Add Gate Valve w/ Spur Gear at station 113+58, 10.09' cover to top of water main
    - Add Gate Valve w/ Bevel Gear at station 231+18, 6.92' cover to top of water main

- Add hydrants, modifications to depth of main adjusted during construction, at the following locations:
    - FH at station 43+16 shall be located on easement 1-26.
    - FH at station 204+89 shall be located on easement 1-39.

- Add air release valve, modifications to depth of main adjusted during construction, at the following locations:
    - ARV at station 32+67 shall be located on easement 1-25.
    - ARV at station 271+12 shall be located on easement 1-46.

GENERAL

- Timeline
    - If the Bids are acceptable, a recommendation will be given to Illinois Alluvial Regional Water company. If accepted, the Contract will be tentatively awarded at the IARWC's October 22, 2026, regular board meeting, after concurrence from Illinois Environmental Protection Agency at which time the CONTRACTOR would be sent a Notice of Award. The CONTRACTOR will then have two weeks to execute the necessary paperwork and bonding requirements. The Notice to Proceed is expected to be issued around January 15, 2027, with a construction start date of approximately January 15, 2027.
- Easements are not part of the contract, but can be viewed on the website https://haengr.com/portfolio/iarwc-phase-1b-contract-f/?portfolioCats=40 under Bidding Information Easements.
- Geotechnical Report is not part of the contract, but can be viewed on the website https://haengr.com/portfolio/iarwc-phase-1b-contract-f/?portfolioCats=40 under Bidding Information Geotechnical Report.
- Corrosion Report is not part of the contract, but can be viewed on the website https://haengr.com/portfolio/iarwc-phase-1b-contract-f/?portfolioCats=40 under Bidding Information Corrosion Report.
- Utility conflicts are the responsibility of the contractor to relocate and at the contractor's cost.
- Road Agreements
    - Unsigned Road Use for County and township roads.
    - IDOT Permit being revised to 36-inch HDPE and 48-inch casing.
    - Unsigned County Road Permits.
    - Unsigned Township Road Permits.

- Attached is the Pre-Bid meeting minutes and attendance list from the Pre-Bid meeting held September 16, 2026, 10:00am at the Jersey County Rural Water Company, Jerseyville, Illinois. The Agenda is made a part of this Addendum, and the items stated in the Agenda shall be followed.

End of Addendum.

Seth W. Elliott, P.E. Project Manager

MECO-Heneghan Engineers, LLC

PRE-BID MEETING
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
PHASE 1 B CONTRACTS
WEDNESDAY, SEPTEMBER 16, 2026 AT 10:00 A.M.
MHE PROJECT NO. 700-005

ATTENDEES	REPRESENTING	TELEPHONE
Mark Middendorf	MHE	217-491-2400
Kyle Kaerbe	DN	847-946-2063
John Williams	JCW	618-498-9534
Scott Parker	Landmark Structures	682 417 7178
John Joiner	Core & main	618-225-9250
Dennis Ackerman	Core & main	618-799-1468
Aaron Martin	Martin General	573-485-2107
Cody Trosley	Kamex Inc	618-931-3760
Josh Sisson	KCI	618-975-3075
Marko Dragovich	Geotechnical Construction, Inc	314-609-4260
Craig Bahlis	FSCO	314-573-0514
Mark D Vaughn	FWD	618 259 0935
Kendal Eckert	Caldwell Tanks	573-303-4403
Andy Long	MPCO HEN	573 221 4048
Justin Wittman	Loellke Plumbing	618-498-5185
Tyler Meyer	MHE	618-533-6525
Seth Elliott	MHE	

PRE-BID MEETING *MINUTES*

September 16, 2026, 10:00 A.M.

700-005; 71000-412

Illinois EPA's published PWSLP pre-bid meeting should be held at least 20 days before bid opening to discuss Disadvantaged Business Enterprise requirements and answer bidders' questions. Therefore, DBE compliance is the principal Illinois EPA topic that must be covered.

1. Project and bidding information

- Introductions and attendance record.
- Project scope, contract divisions, alternates and funding status.
- Bid deadline, location, delivery requirements and public opening.
- Required bid form and acknowledgment of addenda.
- Minimum 5% bid security.
- 100% performance and payment bonds.
- Bid evaluation procedure and award to the lowest responsive, responsible bidder.
- Bid-hold period and anticipated award and notice-to-proceed dates.
- *Anticipate award at October 22nd Alluvial Board meeting (4th Thursdays) pending IEPA concurrence*

2. DBE requirements — essential Illinois EPA discussion

- Illinois EPA's current fair-share objectives are:
  - Minority Business Enterprises: 5%
  - Women Business Enterprises: 12%
- These percentages are objectives, not quotas.
- Every prime bidder must perform the required good-faith efforts, including a bidder that is itself DBE-certified.
- If subcontracting or supplier opportunities exist, the bidder must advertise them:
  - In an eligible local daily newspaper or established online construction clearinghouse;
  - For at least one day; and
  - At least 16 days before bid opening.
- Subcontracting opportunities include construction, equipment, materials, supplies and services.
- The bidder must allow DBEs sufficient information and time to prepare proposals.
- Bidders must evaluate DBE and non-DBE proposals objectively and on the same basis.
- Work should be divided into smaller tasks when economically feasible to encourage DBE participation.
- Required bid documentation should be reviewed, including:
  - Proof of publication or online posting;
  - Bidder's list containing DBE and non-DBE firms that submitted quotes;
  - DBE utilization forms;
  - Identification of DBEs solicited but not selected, with justification;
  - Certification if no DBE responses were received; or
  - Certification that the bidder will perform the entire contract without subcontractors, suppliers or other outside procurement, if applicable.
- Missing DBE documentation may make a bid nonresponsive or require rejection, and noncompliance can result in rebidding.
- DBE obligations continue after award. The contractor must notify the owner before terminating or replacing a DBE subcontractor and must repeat the good-faith efforts when seeking a replacement.

Illinois EPA recommends conducting this meeting at least 20 days before bid opening, which provides

bidders time to satisfy the 16-day DBE advertising requirement. Illinois EPA DBE Guidance, September 2025

3. Davis-Bacon requirements

- Applicable federal wage determination and any modifications issued before bid opening.
- Payment of applicable wage rates and fringe benefits.
- Weekly certified payroll submissions.
- Payroll classifications and procedures for requesting additional classifications.
- Required jobsite postings and employee interviews.
- Record-retention requirements.
- Flow-down of Davis-Bacon requirements to every covered subcontract.
- Responsibility of the prime contractor for subcontractor compliance.

4. Build America, Buy America

- BABA applies to the SRF-funded project.
- Covered iron, steel, manufactured products and construction materials must be produced in the United States.
- The successful contractor must obtain and maintain adequate manufacturer certifications and supporting documentation.
- BABA requirements apply to subcontractors, suppliers and vendors.
- A product should not be ordered based on an assumption that a waiver will be granted.
- Potential noncompliant products must be brought to the engineer and owner's attention before procurement.
- Substitutions based on domestic-content compliance must follow the contract's substitution procedures.

Illinois EPA currently states that BABA applies to all SRF-funded projects. Illinois EPA SRF program page

5. Illinois labor requirements

- Illinois Works Jobs Program Act Apprenticeship Initiative requirements for projects exceeding the applicable total-project-cost threshold—currently stated by Illinois EPA as $500,000.
- Contractor registration, reporting and apprenticeship documentation.
- Employment of Illinois Workers on Public Works Act requirements.
- Any Illinois prevailing-wage obligations that apply in addition to Davis-Bacon.

6. Contract administration

- Required insurance.
- Contract execution and bond-submittal deadlines.
- Subcontractor and supplier identification.
- Change-order procedures and prohibition against performing extra work without authorization.
- Illinois EPA access to the project site and contractor records.
- Debarment and suspension certifications.
- Non-collusion and Illinois Criminal Code certifications.
- Nondiscrimination provisions.
- Payment procedures, retainage and required supporting documentation.
- Substantial- and final-completion dates and liquidated damages.

Contracts F, G

- Coordination Among Contracts – *current Contract "E" contractor is Haier Plumbing and Heating*
- Fiber Optic
- Landowner Coordination and Easement Restrictions
- Erosion Control and NPDES Permit
- Local Utilities

- Working Hours 7:30-5:30– *can request working outside of these hours to Alluvial Board*
- Clean-up
- Topsoil Preservation – *can provide soils report if requested for depths*
- Bores
- Restrained Joint Pipe instead of Thrust Blocks
- Ripping Soil
- Installation in IDOT ROW/Traffic Control
- Road Permits and Road Use Agreements
- Flushing, Disinfection, and Testing
- Site tour and bidder observations.

8. Questions and addenda

- State that oral answers do not modify the contract documents.
- Require questions to be submitted in writing by the stated deadline.
- Explain that binding interpretations will be issued only by written addendum.
- Remind bidders to acknowledge every addendum in their bids.
- *What is the anticipated start date for construction? Estimated mid-January 2027*
- *Is the project 100% BABA? Yes*
- *Is there extra dirt available at the WTP for a dirt mound for contract A-2? Yes*

Important distinction: Illinois EPA describes the pre-bid meeting itself as “encouraged,” not universally mandatory under its published DBE guidance. If your advertisement makes attendance mandatory—or your assigned Illinois EPA project manager has required it for this loan—the attendance and eligibility consequences should be stated clearly and applied consistently. The current PWSLP front-end package contains the controlling procurement and contract requirements. Illinois EPA PWSLP plans/specifications checklist and front-end documents, February 2026

BID FORM FOR CONSTRUCTION CONTRACT 9/30/26

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders~~,~~ and the General Conditions~~, and the Supplementary Conditions~~.

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

Allen Davenport, Board President
Illinois Alluvial Regional Water Company, Inc.
1009 State Highway 16, Jerseyville, IL 62052

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

A. Required Bid security;

B. List of Proposed Subcontractors;

C. List of Proposed Suppliers;

D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;

E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;

F. Required Bidder Qualification Statement with supporting data; and

G. **Non-Collusion and Certification Statements**

H. **Certification of Nonsegregated Facilities**

I. **Certificate Regarding Bid Rigging & Rotating (Criminal Code 33E)**

J. **Certificate Regarding Debarment, Suspension, and Other Responsibility Matters**

K. **Certification that all iron, steel manufactured products and construction materials used for this project must be produced in the United States. [Build America, Buy America Act]**

L. **Disadvantaged Business Utilization and Affirmative Efforts**

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

3.01 *Unit Price Bids*

A. Bidder will perform the following Work at the indicated unit prices:

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Base Bid A – Contract F – 9/30/26					
Item No.	**Description**	**Unit**	**Estimated Quantity**	**Bid Unit Price**	**Bid Amount**
1	36" HDPE PIPE, CLASS 200	LF	30,131	$	$
2	DUCTILE IRON CLASS 250 OR HDPE CLASS 200, 36" - 90 DEGREE BEND	EA	2	$	$
3	DUCTILE IRON CLASS 250 OR HDPE CLASS 200, 36" CAP	EA	2	$	$
4	FIRE HYDRANT WITH GATE VALVE AND VALVE BOX	EA	8	$	$
5	36" GATE VALVE WITH SPUR GEAR OR BEVEL GEAR ACTUATOR AND VALVE BOX	EA	2	$	$
6	COSTELLO ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	45	$	$
7	STATE HIGHWAY 16 CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	60	$	$
8	OTTERVILLE ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	65	$	$
9	DIRECTIONAL BORE COSTELLO ROAD CROSSING - 1-1/4" HDPE SDR 11 FIBER OPTIC CONDUIT	LF	45	$	$
10	DIRECTIONAL BORE STATE HIGHWAY 16 CROSSING - 1-1/4" HDPE SDR 11 FIBER OPTIC CONDUIT	LF	60	$	$
11	DIRECTIONAL BORE OTTERVILLE ROAD CROSSING - 1-1/4" HDPE SDR 11 FIBER OPTIC CONDUIT	LF	65	$	$
12	EROSION CONTROL	LS	1	$	$
13	SEEDING, FERTILIZING, MULCHING, SOIL TESTING, RIPPING	LS	1	$	$
14	FENCE REPAIR	LF	40	$	$
15	DRAIN TILE REPAIR	EA	30	$	$
16	BACKFILL TYPICAL	LF	29,482	$	$
17	BACKFILL TYPE 5 FULL DEPTH	LF	579	$	$

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18	6" AIR RELEASE VALVE, 72" DIAMTER VAULT AND 6" PIPE	EA	14	$	$
19	1-1/4" HDPE CONDUIT, SDR 11	LF	30,061	$	$
20	24"X36"X36" HDPE FIBER OPTIC HANDHOLD	EA	14	$	$
21	12"X12"X12" HDPE FIBER OPTIC HANDHOLD - BURIED	EA	25	$	$
22	24 STRAND SINGLE MODE FIBER WITH ARMORED SHIELD	LF	32,031	$	$
23	EXPLORATORY DIG (UTILITIES)	EA	10	$	$
24	ROCK EXCAVATION	CY	500	$	$
Total of All Unit Price Base Bid Items					$

Dollars

(In Words)

Alternate Bid A – Contract F – 9/30/26					
Item No.	**Description**	**Unit**	**Estimated Quantity**	**Bid Unit Price**	**Bid Amount**
1A	ST MARYS ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	45	$	$
2A	WASHINGTON SCHOOL ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	45	$	$
3A	BETHANY CHURCH ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	60	$	$
4A	CENTRAL ROAD CROSSING - JACK AND BORE 48" STEEL OUTER CASING INCLUDES CARRIER PIPE	LF	60	$	$
5A	DIRECTIONAL BORE ST MARYS ROAD CROSSING – 1-1/4” HDPE SDR 11 FIBER OPTIC CONDUIT	LF	45	$	$
6A	DIRECTIONAL BORE WASHINGTON SCHOOL ROAD CROSSING – 1-1/4” HDPE SDR 11 FIBER OPTIC CONDUIT	LF	45	$	$
7A	DIRECTIONAL BORE BETHANY CHURCH ROAD CROSSING – 1-1/4” HDPE SDR 11 FIBER OPTIC CONDUIT	LF	60	$	$

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8A	DIRECTIONAL BORE CENTRAL ROAD CROSSING – 1-1/4" HDPE SDR 11 FIBER OPTIC CONDUIT	LF	60	$	$
Total of All Unit Price Alternate Bid Items					$

Dollars

(In Words)

B. Bidder acknowledges that:

1. each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and

2. estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

3.02 *Total Bid Price (Lump Sum and Unit Prices)*

Total Bid Price (Total of all Lump Sum and Unit Price Bids)	$

ARTICLE 4—TIME OF COMPLETION

4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 120 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

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ARTICLE 6—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder's Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the ~~Supplementary~~General Conditions, with respect to the Technical Data in such reports and drawings.
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the ~~Supplementary~~General Conditions, with respect to Technical Data in such reports and drawings.
6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the ~~Supplementary~~General Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

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6.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

3. Bidder has not solicited or induced any individual or entity to refrain from bidding.

4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:

   a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.

   b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

   c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.

   d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

Bidder is currently certified as an MBE or WBE under EPA's DBE Program? Yes ☐ No ☐

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BIDDER hereby submits this Bid as set forth above:

Bidder:

_____

(typed or printed name of organization)

By: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

Address for giving notices:

_____

_____

Bidder's Contact:

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Phone: _____

Email: _____

Address:

_____

_____

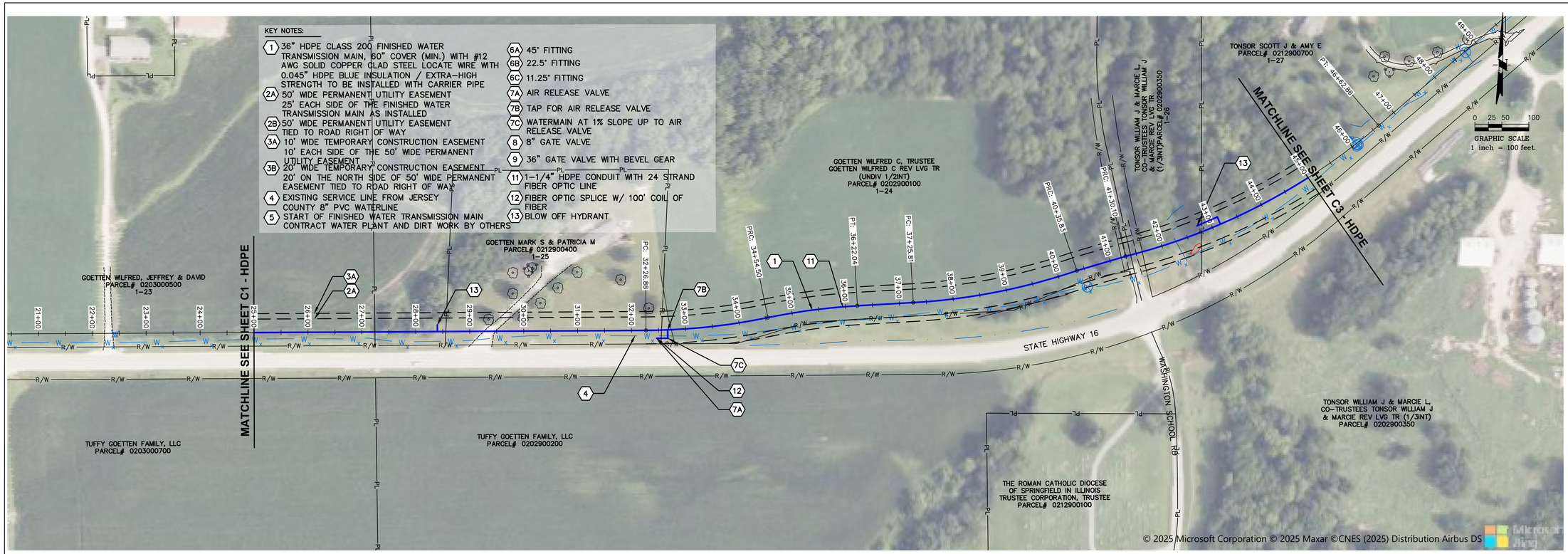
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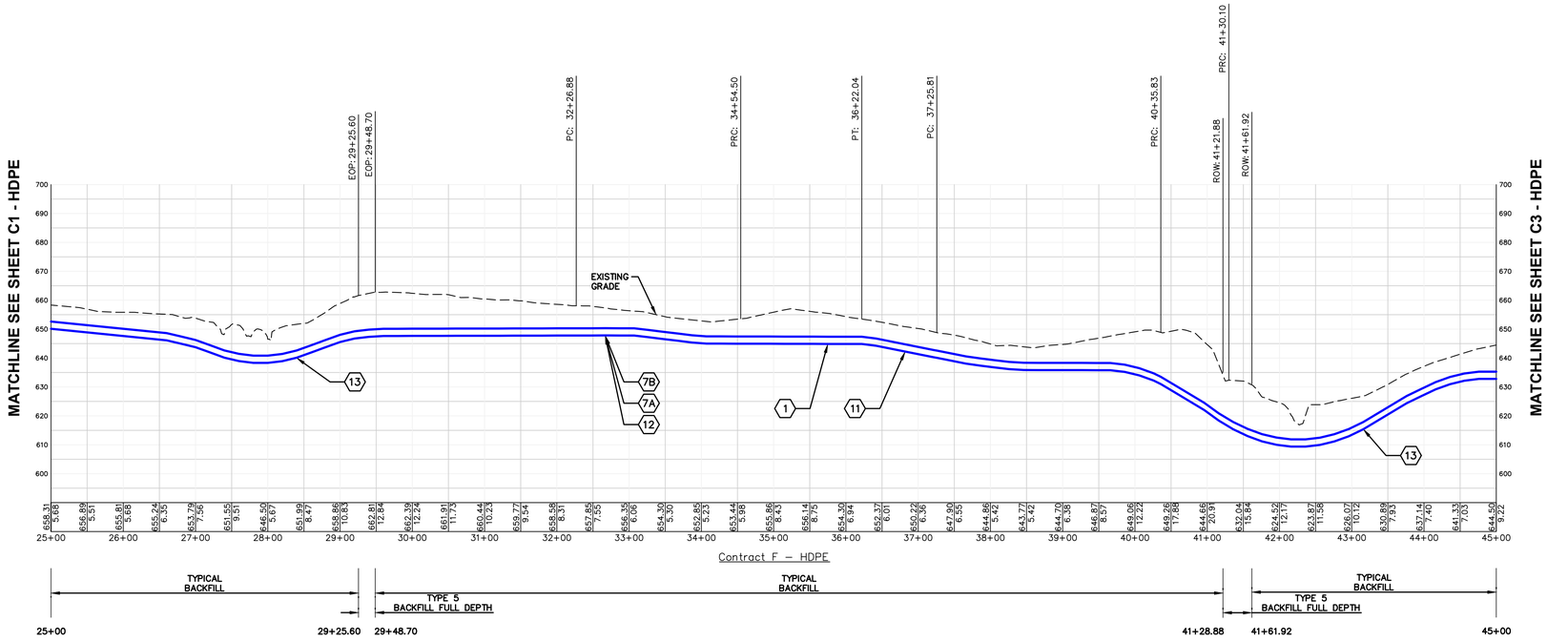
Bidder's Contractor License No.: (if applicable) _____

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KEY NOTES:

1. 36" HDPE CLASS 200 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING SERVICE LINE FROM JERSEY COUNTY 8" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE
8. 8" GATE VALVE
9. 36" GATE VALVE WITH BEVEL GEAR
11. 1-1/4" HDPE CONDUIT WITH 24 STRAND FIBER OPTIC LINE
12. FIBER OPTIC SPLICE W/ 100' COIL OF FIBER
13. BLOW OFF HYDRANT





MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2026
900 S. HIGHWAY DR.
SUITE 202
FENTON, MO 63026
P: (636) 395-7055

REVISIONS | DATE | NO.

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-412
DATE: 9/30/2026
SHEET NO. C2-HDPE
5 OF 23 SHEETS

PATH=s:\shared-pim\mhe\clients\illinois alluvial\71000-412 - stage 1b\cad\contract f - dwgs\f - finished sheets - di recover.dwg
PLOTTED: 9/30/2026 @ 10:22:57 AM BY tyler meyer

PROJECT ROAD USE AGREEMENT

THIS AGREEMENT is made and entered into as of the _____ day of _____, 2026 (hereinafter referred to as the "Effective Date") by and between Jersey County, Illinois ("Road Authority") and Illinois Alluvial Regional Water Company ("Alluvial"). Road Authority and Alluvial may be collectively referred to herein as the "Parties" and individually as a "Party."

WITNESSETH

WHEREAS, Alluvial intends to engage in a rebuild construction of an existing 36" HDPE transmission line and related facilities (the "Project") in and through various portions of Jersey County, Illinois, Jersey Township, and English Township.

WHEREAS, Alluvial intends to use roads under the jurisdiction of the Road Authority for activities related to the Project and has provided to the Road Authority a Project Traffic Map depicting, among other things, the location of the Project facilities, the jurisdictional boundaries of the Road Authority, and identified local roads to be used as haul routes for Project construction vehicles allowing access to points of entry to the Project footprint for all material deliveries and construction activities. A copy of this document is attached hereto as Exhibit "A" and is referred to herein as the "Project Traffic Map."

WHEREAS, Alluvial intends to complete the construction portion of the Project by January 2029.

NOW THEREFORE, in consideration of the mutual promises and covenants herein set forth, the Parties hereto agree as follows:

1. The Road Authority permits Alluvial and its contractors and agents to use the local roads identified on the Project Traffic Map provided, however, that the Road Authority may restrict road use during the traditional road posting season depending on weather and road conditions.
2. The Road Authority shall issue vehicle permits for Project-related overweight and oversize vehicles that will be using the local roads identified on the Project Traffic Map. All overweight and oversize vehicles shall have a copy of the issued permit in the vehicle and available to be inspected by police or representatives of the Road Authority issuing the permit.
3. Alluvial will make all reasonable efforts to use private rights-of-way for construction of the Project in order to minimize the impact of its construction activities on the public roadways and roadway appurtenances.

4. Alluvial agrees to provide roadway traffic control and protection in accordance with current applicable IDOT standards at any time Alluvial, its contractors and/or agents are conducting any construction activities and/or have construction equipment within 5' from the edge of pavement.
5. Prior to mobilization, Alluvial will ~~secure a third-party contractor to~~ perform an initial inspection of the local roads identified on the Project Traffic Map. This inspection will include geospatial imaging and a summary report of the initial road conditions. ~~This contractor~~ Alluvial will perform additional ongoing monitoring of the local roads identified in the Project Traffic Map at a frequency based on the rate of road damage occurrence observed, if any. These reports and all geospatial imagery shall be delivered to the Parties upon completion.
6. During Project construction, Alluvial will keep all local roads identified on the Project Traffic Map clear of tracked mud caused by construction activities and passable by local traffic. If damage occurs to the local roads identified on the Project Traffic Map as a result of the Project construction, Alluvial agrees to pay for interim repairs to maintain the roads so they remain passable for local traffic.
7. Alluvial will post signs concerning road hazards, construction activities, and road closures.
8. Alluvial agrees to work in good faith with the Road Authority to coordinate construction activities and proactively address any issues that may arise throughout the duration of construction.
9. Upon Project completion, the third-party road monitoring contractor will perform a post-construction final inspection of the local roads identified as haul routes in the Project Traffic Map. This inspection will also include geospatial imaging and a summary report of the final road conditions. This report and all geospatial imagery shall be delivered to the Parties upon completion.
10. Upon receipt of the final inspection referenced above, Alluvial agrees to work in good faith with the Road Authority to identify damages caused by Alluvial and the appropriate remediation to restore the roads and areas of public rights of way, entrances, and points of ingress and egress to their pre-construction condition.
11. Based on the identified damages caused by Alluvial and appropriate remediation, the Road Authority will provide to Alluvial reasonable estimates for road repair or restoration in accordance with industry recognized standards to repair the roads back to their pre-construction condition. Alluvial agrees to pay the Road Authority the estimated cost to repair the roads back to their pre-construction conditions.
12. In the event that the Parties cannot agree on final damages caused and the amounts or costs of the repairs, Alluvial agrees to hire, at its cost, a mutually agreed upon engineer to review the inspection reports and cost estimates. The engineer will

determine a final cost of the repairs to restore the roads to their pre-construction condition. The Parties agree to accept this as the final amount and Alluvial agrees to pay the costs of the repairs within 30 days after receipt of invoice from the respective Road Authority.

13. Notwithstanding anything else to the contrary contained in this agreement, upon presentation of supporting invoices, Alluvial hereby agrees to pay for any and all legal fees, engineering fees, construction costs and all other costs associated with the development, execution and implementation of this agreement, including any disputes arising therefrom, not to exceed $25,000.
14. This Agreement cannot be modified or amended without the written consent of the Parties.
15. Any notice, statement, or invoice provided for in this Agreement shall be in writing and shall be considered as having been given if hand carried, facsimiled, or if mailed by United States mail, postage prepaid, to the following address, respectively:

Alluvial	**COUNTY NAME**
Name: Illinois Alluvial Regional Water Company **Address: 14500 State Hwy 16** **Fieldon, Illinois 62031** **Attention: Allen Davenport**	Name: Jersey County Highway Department Address: 722 State Highway 16 Jerseyville, Illinois 62052 Attention: Tom Klasner 618.498.9074 tklasner@jerseycounty-il.us

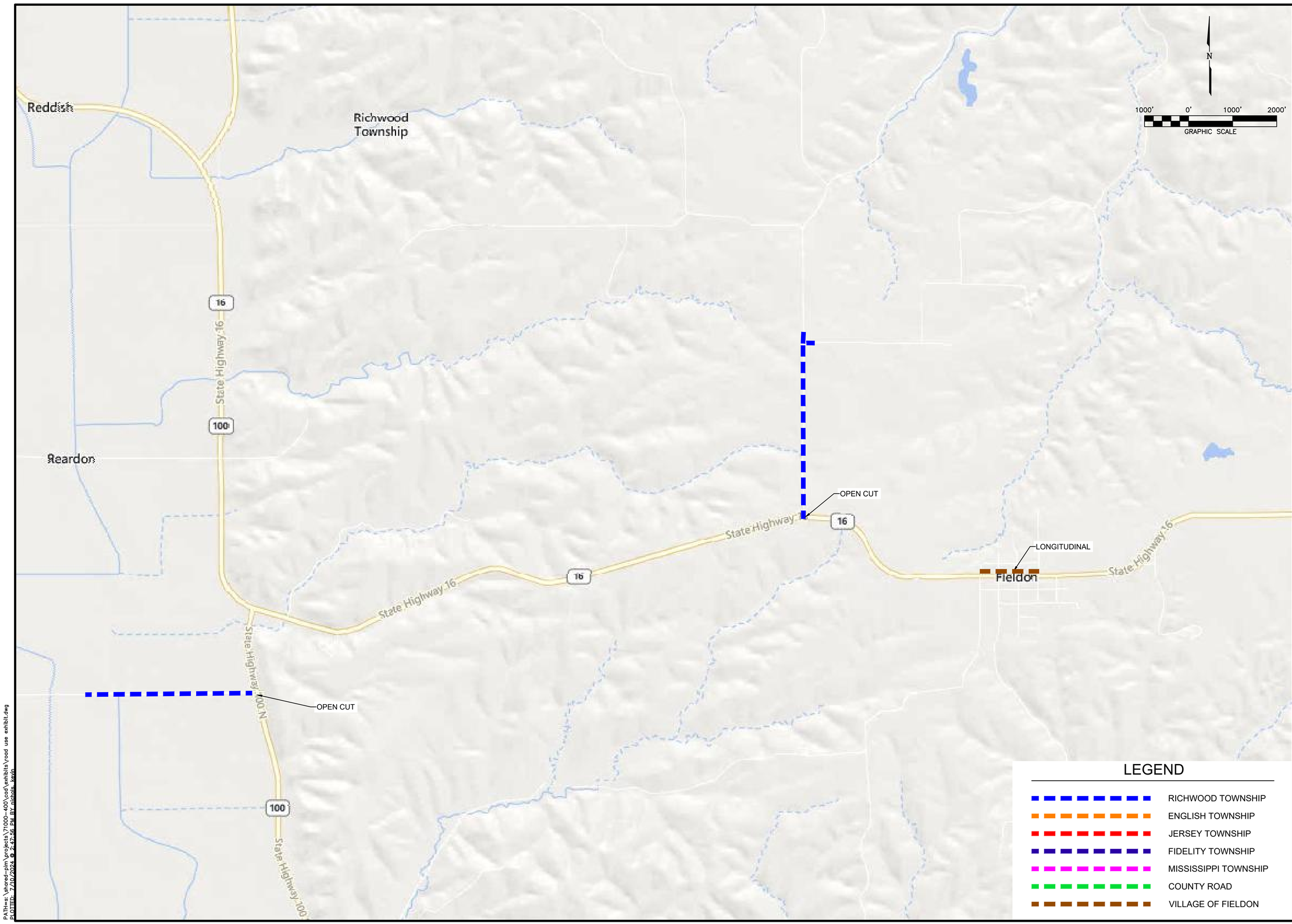
1. This Agreement shall be construed and interpreted in accordance with the laws of the State of Illinois, without recourse to any principles of law governing conflicts of law, which might otherwise be applicable.
2. This agreement in addition to the Illinois Compiled Statutes Section 9-113, 9-113.01 and 9-122 will constitute the entire agreement between the Parties with reference to the subject matter hereof.
3. This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument. Delivery of an executed counterpart of a signature page of this Agreement by facsimile (or other electronic) transmission shall be effective as delivery of a manually executed counterpart of this Agreement.

1 The "Road Authority" shall include all of the following entities: Jersey County, Jersey Township, and English Township.

2 "Alluvial" shall include all contractors, sub-contractors, agents, affiliates, employees, material suppliers, vendors, representatives and designers.

IN WITNESS WHEREOF, Jersey County, Illinois and Alluvial have caused this Agreement to be duly executed, all as of the date set forth above.

Jersey County, Illinois	**Illinois Alluvial Regional Water Company**
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____



LEGEND

- RICHWOOD TOWNSHIP
- ENGLISH TOWNSHIP
- JERSEY TOWNSHIP
- FIDELITY TOWNSHIP
- MISSISSIPPI TOWNSHIP
- COUNTY ROAD
- VILLAGE OF FIELDON

HENEGHAN ASSOCIATES

ENGINEERS-SURVEYORS
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DESIGN FIRM NUMBERS:
IL: 184-002692, EXPIRES APRIL 30, 2025
MO: 001310, EXPIRES DECEMBER 31, 2025

- 1004 STATE HWY. 16
  JERSEYVILLE, IL 62052
  P: (618) 498-6418
  F: (618) 498-6410
- 800 BROADWAY, SUITE 3
  MOUNT VERNON, IL 62864
  P: (618) 533-6525
  F: (618) 533-6652
- 310A VISION DRIVE
  COLUMBIA, IL 62236
  P: (618) 281-8133
  F: (618) 281-8290
- 1929 RICHARDSON ROAD
  ARNOLD, MO 63010
  P: (636) 464-3610
  F: (636) 464-2059

NO.	DATE	REVISIONS

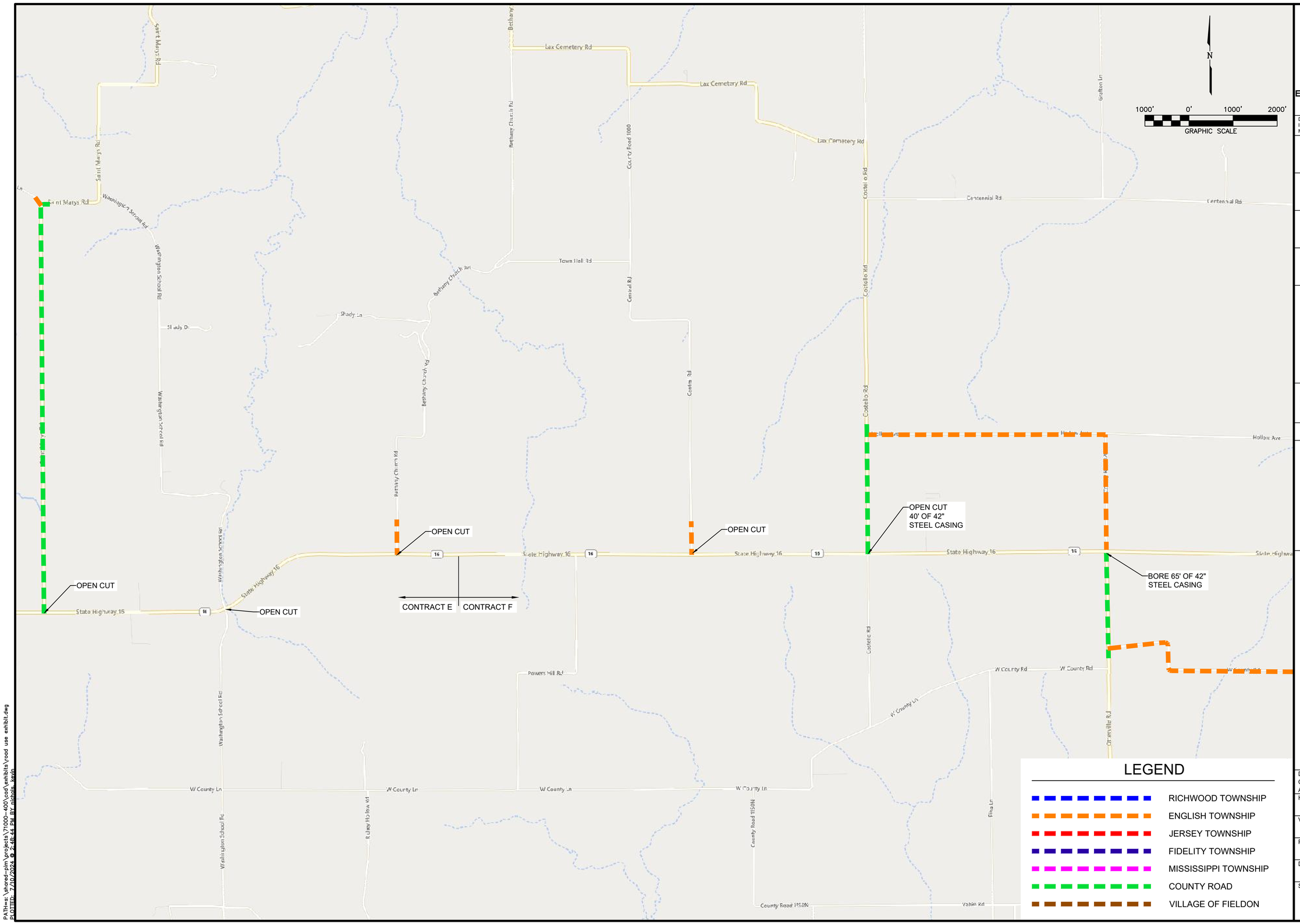
ROAD USE EXHIBIT
RICHWOOD TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/31/24
SHEET NO.	1

1 OF 6 SHEETS

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PLOTTED: 7/10/2024 @ 2:47:56 PM BY illinois, kevin



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1929 RICHARDSON ROAD
ARNOLD, MO 63010
P: (636) 464-3610
F: (636) 464-2059

NO.	DATE	REVISIONS

ROAD USE EXHIBIT
ENGLISH TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/31/24
SHEET NO.	2

2 OF 6 SHEETS

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OPEN CUT

OPEN CUT

LONGITUDINAL
AT FRY PROPERTY

BORE

OPEN CUT

BORE 60' OF 42"
STEEL CASING

OPEN CUT

BORE 60' OF 42"
STEEL CASING

LEGEND

- RICHWOOD TOWNSHIP
- ENGLISH TOWNSHIP
- JERSEY TOWNSHIP
- FIDELITY TOWNSHIP
- MISSISSIPPI TOWNSHIP
- COUNTY ROAD
- VILLAGE OF FIELDON

1000' 0' 1000' 2000'
GRAPHIC SCALE

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MO: 001310, EXPIRES DECEMBER 31, 2025

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NO.	DATE	REVISIONS

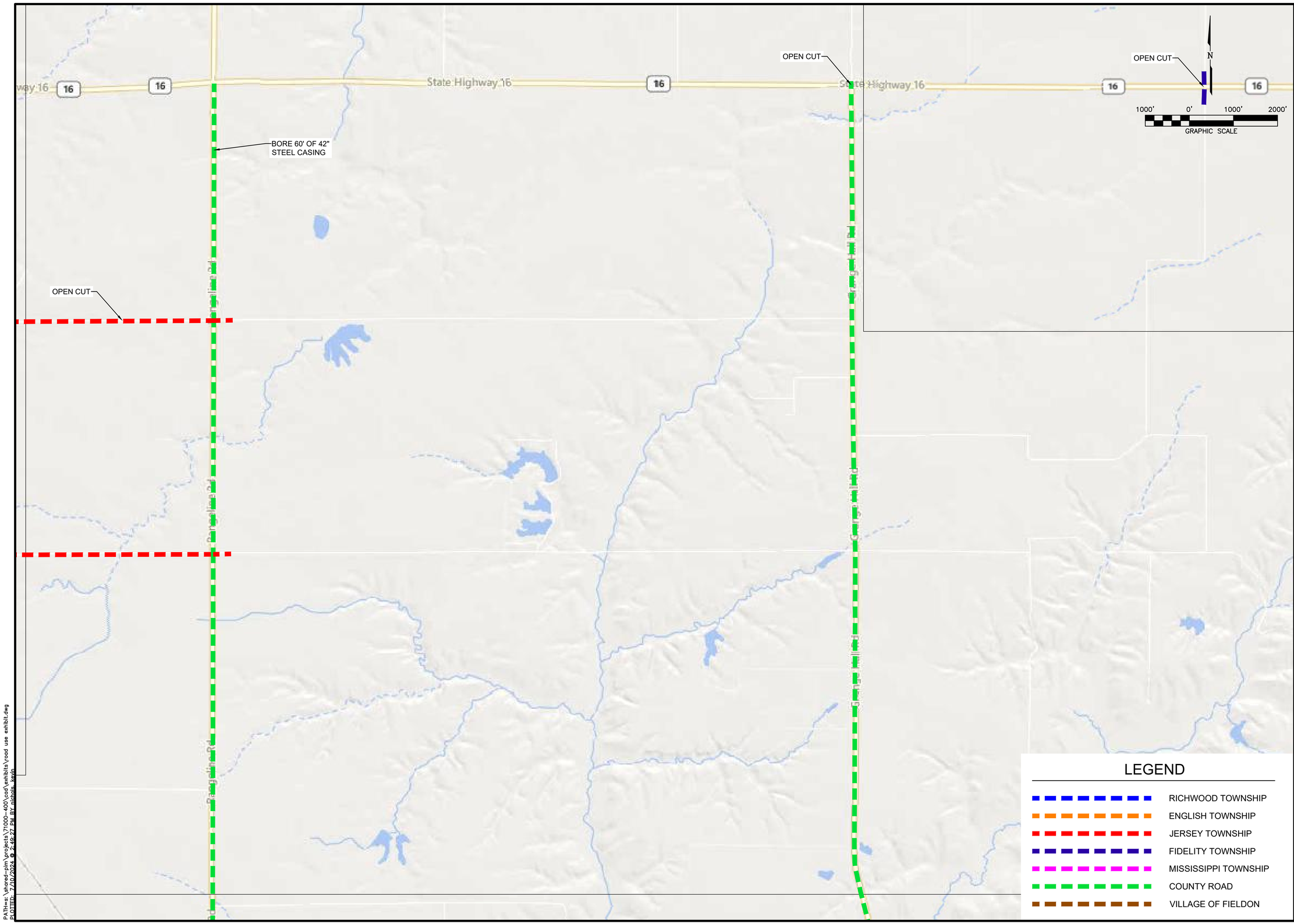
ROAD USE EXHIBIT
ENGLISH TOWNSHIP
JERSEY TOWNSHIP
MISSISSIPPI TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/31/24
SHEET NO.	3

3 OF 6 SHEETS

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MO: 001310, EXPIRES DECEMBER 31, 2025

1004 STATE HWY. 16
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1929 RICHARDSON ROAD
ARNOLD, MO 63010
P: (636) 464-3610
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NO.	DATE	REVISIONS

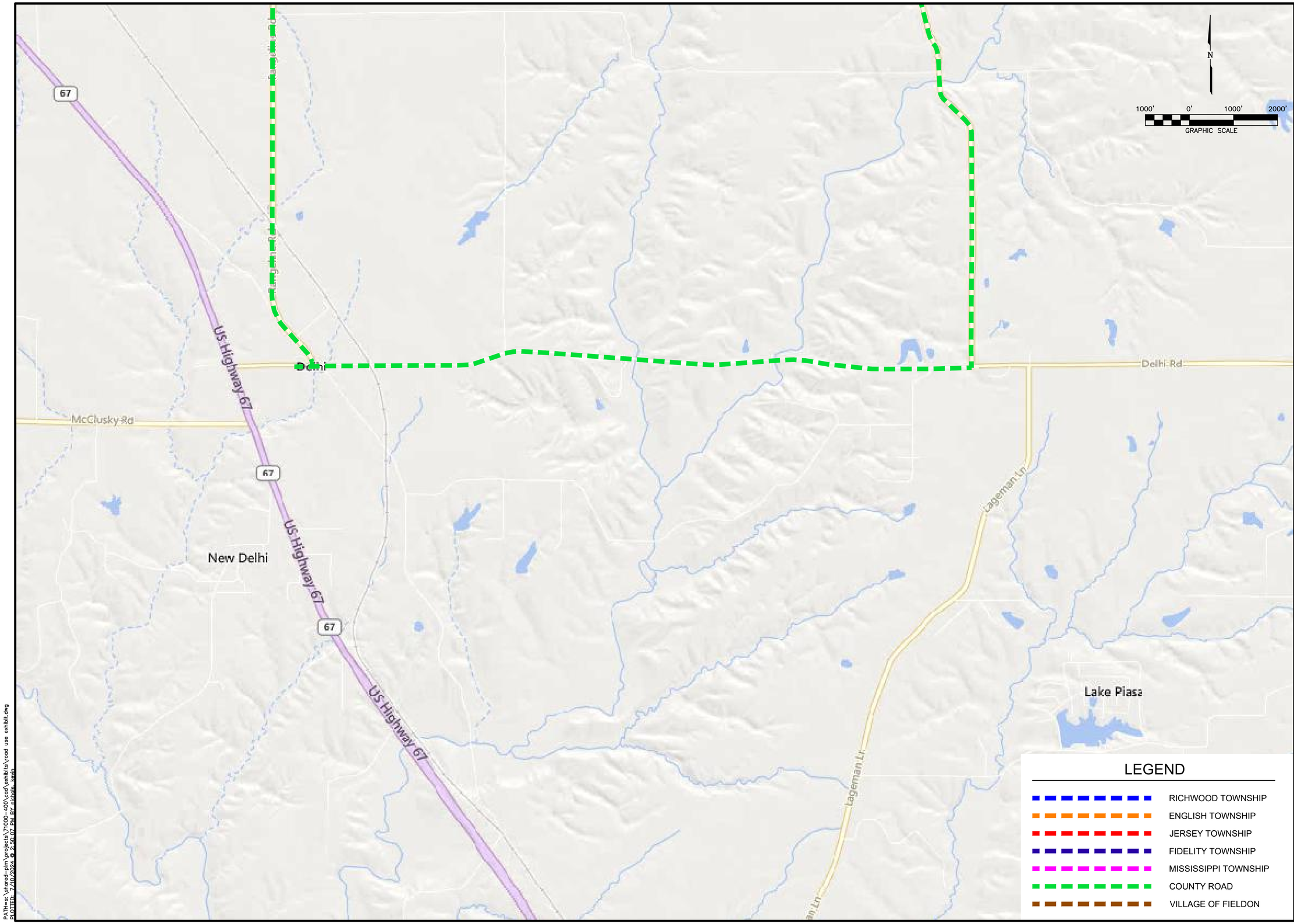
ROAD USE EXHIBIT
JERSEY TOWNSHIP
FIDELITY TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/31/24
SHEET NO.	4

4 OF 6 SHEETS

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1929 RICHARDSON ROAD
ARNOLD, MO 63010
P: (636) 464-3610
F: (636) 464-2059

NO.	DATE	REVISIONS

ROAD USE EXHIBIT
PIASA TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/29/24
SHEET NO.	5

5 OF 6 SHEETS

PATH=s:\shared-pim\projects\71000-400\cad\exhibits\road use exhibit.dwg
PLOTTED: 7/10/2024 @ 2:45:07 PM BY nichola.kevin

Fidelity

State St

Fidelity Rd

Route 111

111

Route 111

267

N

1000' 0' 1000' 2000'

GRAPHIC SCALE

OPEN CUT

BORE

Highway 16

16

16

State Highway 16

Route 16

16

Route 16

Piasa

Route 16

Route 111

111

267

LEGEND

- RICHWOOD TOWNSHIP
- ENGLISH TOWNSHIP
- JERSEY TOWNSHIP
- FIDELITY TOWNSHIP
- MISSISSIPPI TOWNSHIP
- COUNTY ROAD
- VILLAGE OF FIELDON

HENEGHAN ASSOCIATES

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MO: 001310, EXPIRES DECEMBER 31, 2025

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REVISIONS	DATE	NO.

ROAD USE EXHIBIT
FIDELITY TOWNSHIP
JERSEY COUNTY

ILLIONOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=1000'
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	5/31/24
SHEET NO.	6
	6 OF 6 SHEETS

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TOWNSHIP ROAD PERMIT

Illinois Alluvial Regional Water Company

Andrew Darr, Township Road Commissioner
English, Township
25257 St. Mary's Road
Jerseyville, Illinois 62052

Permission is hereby requested to perform the following:

Construct, operate, and maintain buried water main(s) and services lines in township Right-of-way. as shown on the attached location sketches

Crossing	Contract and Aerial Sheet #	Sec.	Township	Township Road	Fused HDPE Pipe	Open Cut Length	Maintenance Fee
1	Contract F CD1-HDPE	29	English.	Washington School Rd.	36"	24'	$10,000
2	Contract F CD4-HDPE	20/21	English	Bethany Church Rd.	36"	28'	$10,000
3	Contract F CD7-HDPE	22	English	Central Rd.	36"	20'	$10,000

Subject to the following conditions and restrictions:

1. Illinois Alluvial Regional Water Company agrees to pay a maintenance fee of $30,000.00 for future expenses due to settling or other issues after the warranty period.

2. Readjustments due to road rehabilitation shall be at the expense of Illinois Alluvial Regional Water Company.

3. In the case of buried pipe, the pipe shall be placed as shown on the attached sketch and/or plan sheet(s). Surfaces damaged during excavating shall be restored to at least the original condition as they existed prior to construction. The OWNER will provide the Township Highway Commissioner a video of both pre-construction and post-construction of the roads.

4. Illinois Alluvial Regional Water Company shall notify the Township Road Commissioner prior to construction or repairs along the water lines.

5. llinois Alluvial Regional Water Company shall notify the Township Road Commissioner of all changes in water main routing.

6. The Township Road Commissioner reserves the right to approve or disapprove construction under adverse conditions.

7. Any open cut or damaged pavement areas shall be initially backfilled by the Contractor with gravel per the current specification for open cutting roads. The Township will then be responsible for final resurfacing of the roadway and will be reimbursed as follows:

1. $75.00 per road crossing
2. $2.00 per foot for longitudinal repair

8. Any other conditions or restrictions defined on pages attached to this permit.

9. Illinois Alluvial Regional Water Company requests that permission be granted to perform this work and so indicated by dating and signing Page 2 of this form. If, for some reason, there is reasonable objection to the proposed construction, please contact Illinois Alluvial Regional Water Company, Seth Elliott, Project Manager, as soon as possible so that the company may consider action necessary to resolve the objection.

Work is to be started approximately Spring of 2027.
(Month/Year)

Illinois Alluvial Regional Water Company.
(District/Company)

_____
(Signature)

Chairman
(Title)

Permission given this _____ day of _____.

TOWNSHIP ROAD COMMISSIONER

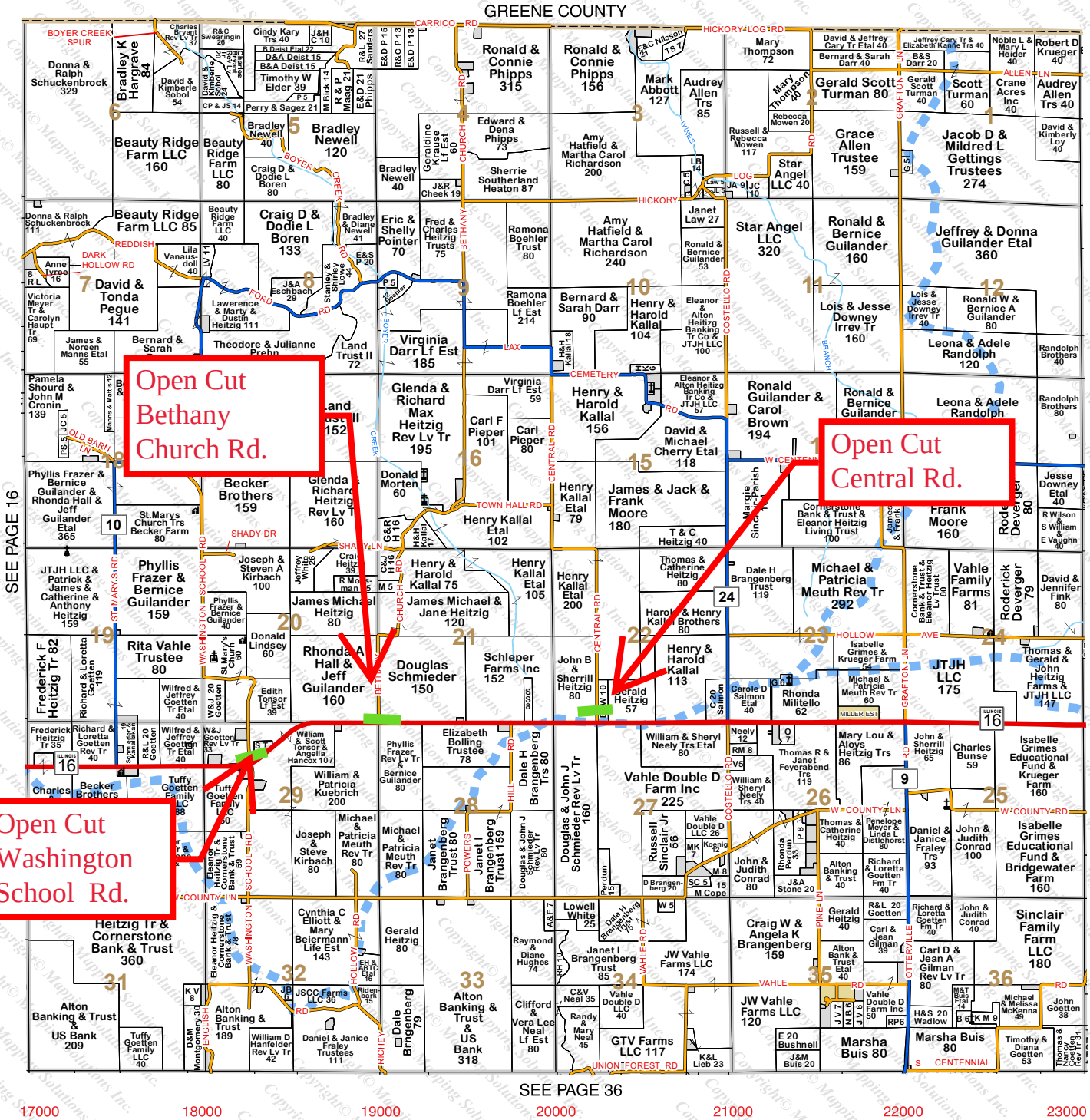
_____
(Signature)

English

0 0.5 1 2 Miles

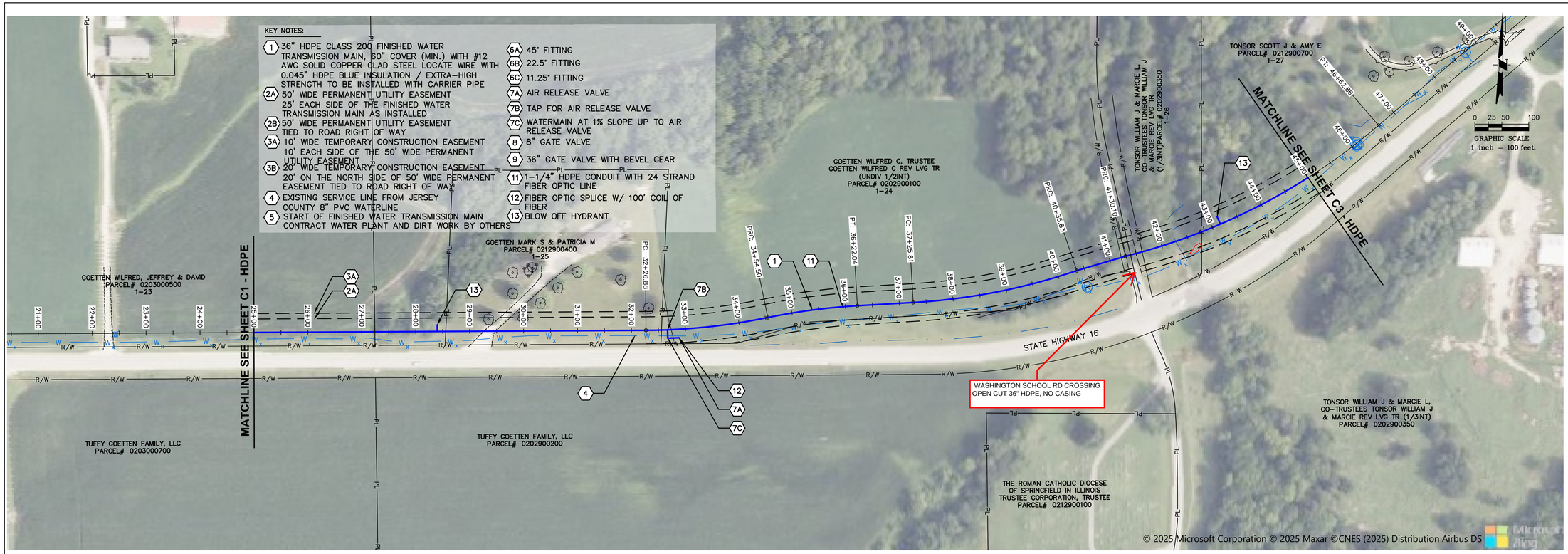
Township 8N - Range 12W

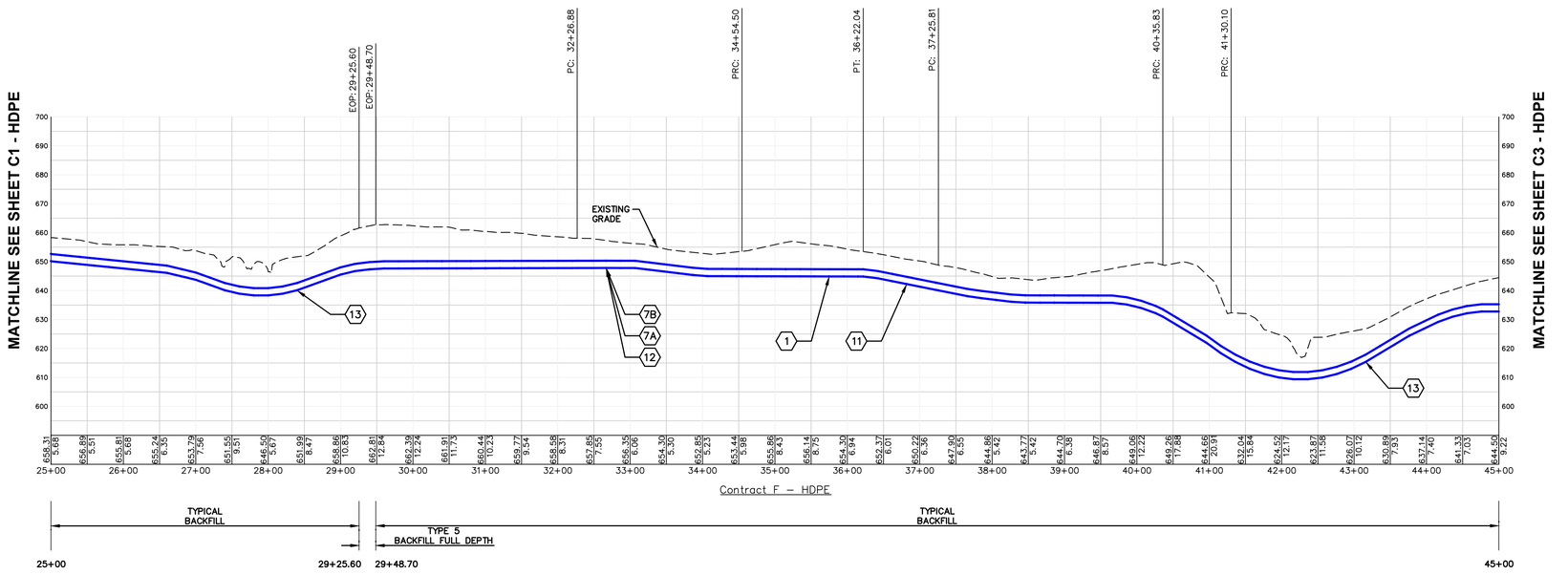
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KEY NOTES:

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CONTRACT "F"
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AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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SHEET NO. C2-HDPE
5 OF 23 SHEETS

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PLOTTED: 9/7/2026 @ 8:42:16 AM BY seth elliott

KEY NOTES:

1. 36" HDPE CLASS 200 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING SERVICE LINE FROM JERSEY COUNTY 8" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE
8. 8" GATE VALVE
9. 36" GATE VALVE WITH BEVEL GEAR
11. 1-1/4" HDPE CONDUIT WITH 24 STRAND FIBER OPTIC LINE
12. FIBER OPTIC SPLICE W/ 100' COIL OF FIBER
13. BLOW OFF HYDRANT

CONTRACTOR NOTE: SEE CLEAN-UP AGREEMENT WITH OWNER. HAS RIGHT TO TELL CONTRACTOR TO STOP WORK

MATCHLINE SEE SHEET C3 - HDPE

MATCHLINE SEE SHEET C5 - HDPE

HALL KERRY (UNDIV 1/4INT)
PARCEL# 0202001100
1-28

SCHMIEDER DOUGLAS E
PARCEL# 02021100500
1-29

BETHANY CHURCH RD

STATE HIGHWAY 16

STOREY KENNETH L & CHARIS ANNETTE
PARCEL# 0212900200

TONSOR WILLIAM J & MARCIE L, CO-TRUSTEES TONSOR WILLIAM J & MARCIE REV LVG TR (1/3INT)
PARCEL# 0202900350

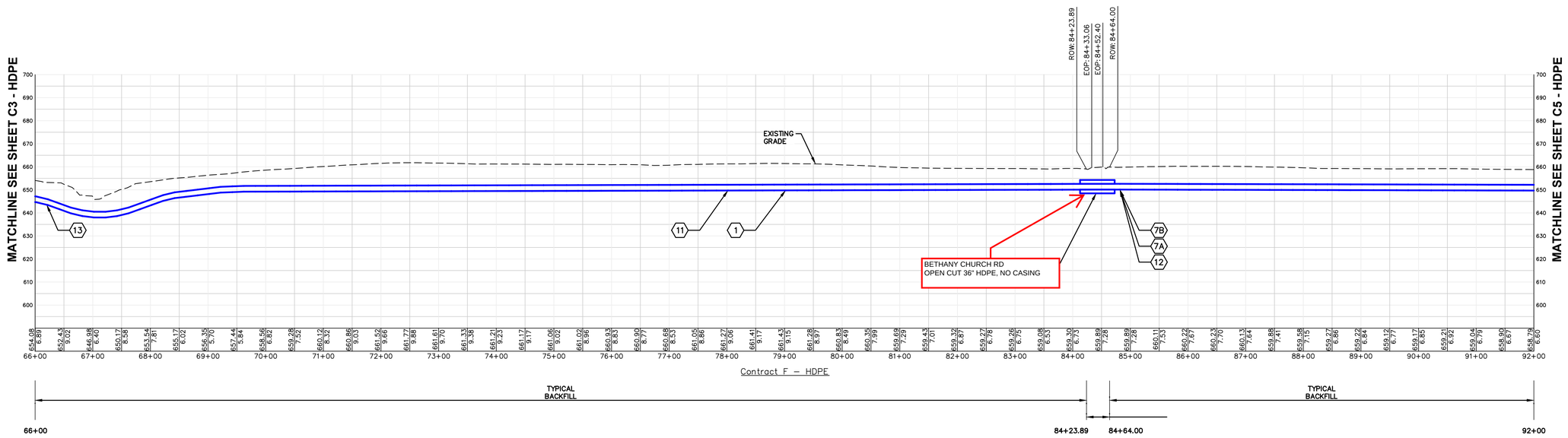
KUEBRICH PATRICIA L, TRUSTEE
KUEBRICH PATRICIA L TRUST
PARCEL# 0202900300

GUILANDER BERNICE
PARCEL# 0202800100

BETHANY CHURCH RD
OPEN CUT 36" HDPE, NO CASING

GRAPHIC SCALE
0 25 50 100
1 inch = 100 feet.

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MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2027
MO: 2018004041
EXPIRES: DECEMBER 31, 2026
900 S. HIGHWAY DR.
SUITE 202
FENTON, MO 63026
P: (636) 395-7055

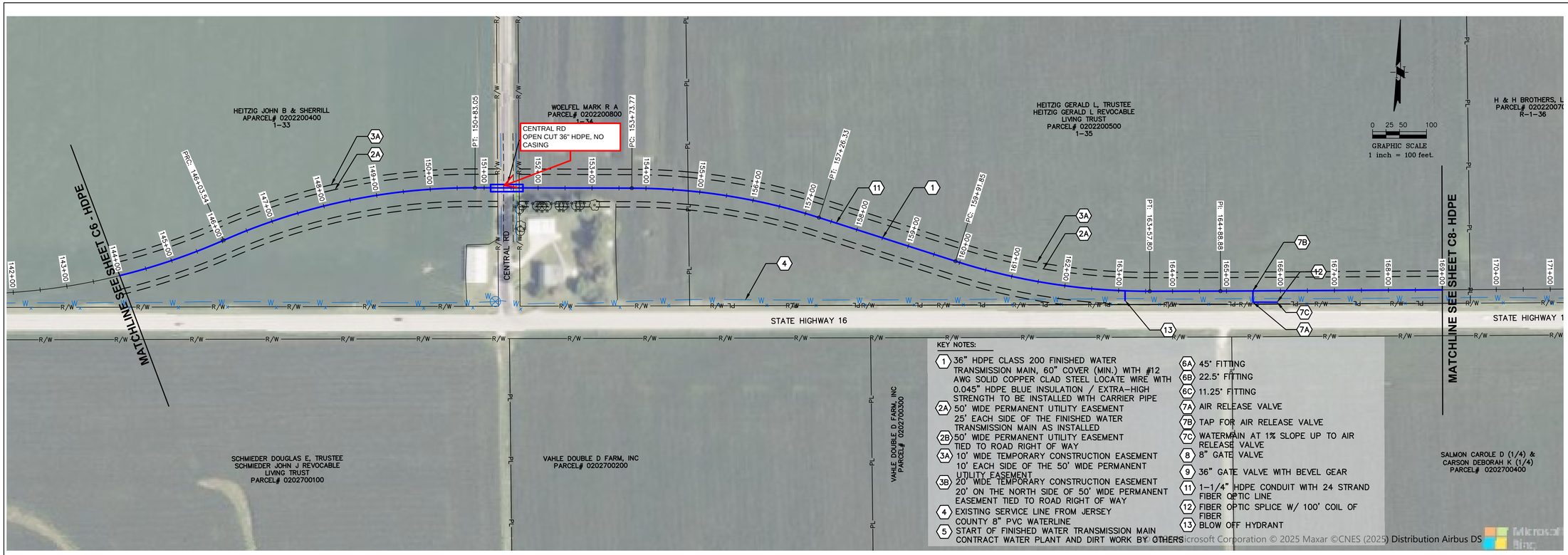
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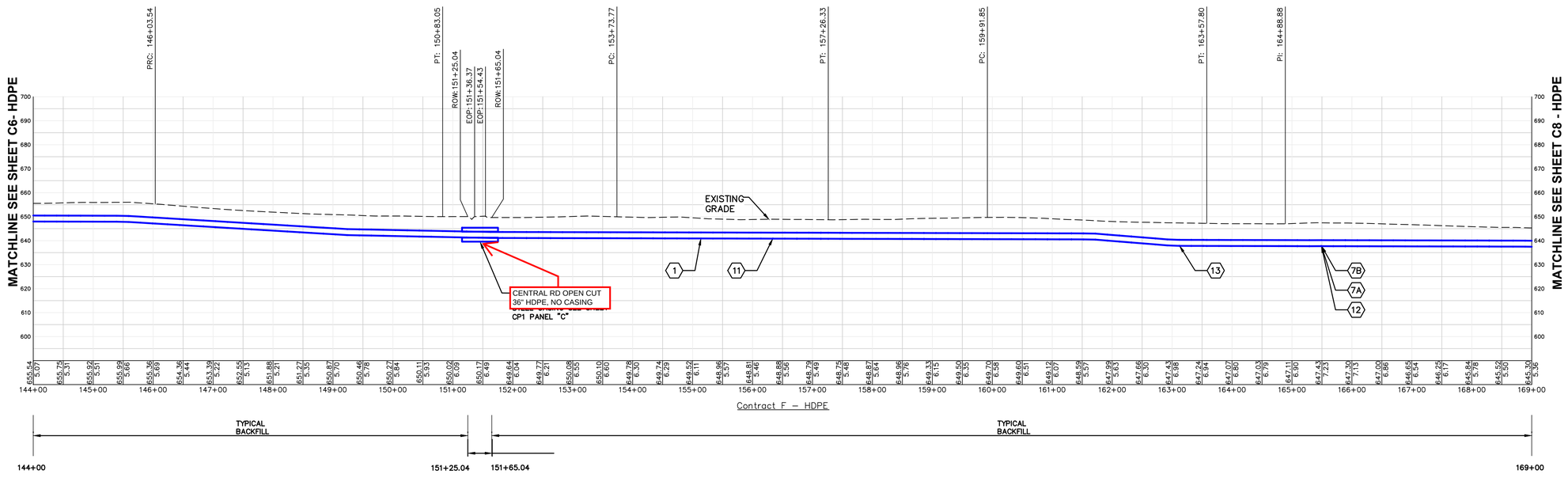
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-412
DATE: 9/7/2026
SHEET NO. C4-HDPE
7 OF 23 SHEETS

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www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2027
MO: 2018004041
EXPIRES: DECEMBER 31, 2026
900 S. HIGHWAY DR.
SUITE 202
FENTON, MO 63026
P: (636) 395-7055

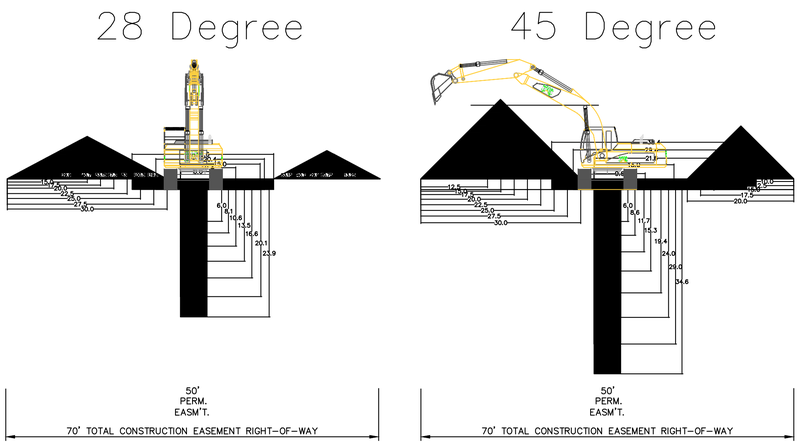
REVISIONS | DATE | NO.

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

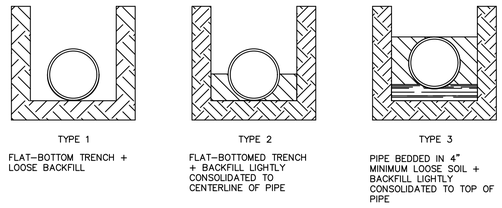
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CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-412
DATE: 9/7/2026
SHEET NO. C7-HDPE
10 OF 23 SHEETS

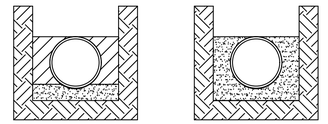
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2 C18 RECOMMENDED CONSTRUCTION EASEMENT R-O-W WIDTH (30" PIPE DIA.)

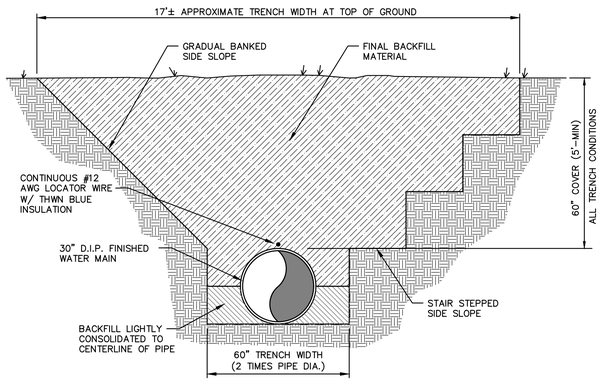
NO SCALE





3 C18 LAYING CONDITIONS

NO SCALE



TYPICAL TRENCH WITH SIDE SLOPES

GENERAL NOTES:

1. MINIMUM TRENCH WIDTH SHALL BE MAINTAINED FROM 6" BELOW PIPE TO 12" ABOVE THE TOP OF PIPE.
2. IF PAYMENT IS AUTHORIZED, PAY LINES FOR ROCK REMOVAL SHALL BE BASED UPON 2 TIMES PIPE DIAMETER.
3. PIPE BEDDING NOTE BELOW IS MINIMUM STANDARD, HOWEVER ANY MORE STRINGENT REQUIREMENTS SET BY PIPE SUPPLIER SHALL SUPERSEDE THE REQUIREMENTS SHOWN.
4. GRANULAR BEDDING GRADUATION SHALL BE AS FOLLOWS UNLESS REQUIRED BY THE PIPE MANUFACTURER OR APPROVED BY THE ENGINEER.

SIEVE SIZE	PERCENT PASSING
1/2"	100
3/8"	80-100
#4	5-80
#10	0-5

5. FLOWABLE FILL MIX SHALL BE AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

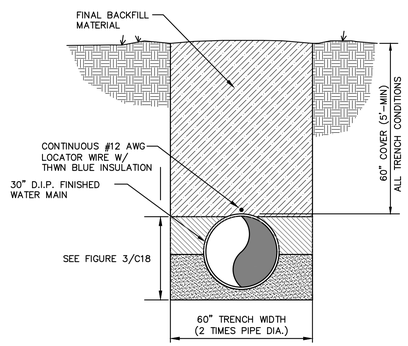
MATERIAL	QUANTITY/CU YD
CEMENT	70 POUNDS
FLY ASH	300 POUNDS
FINE AGGREGATE	2600 POUNDS
WATER	50 GALLON

6. UNSUITABLE BACKFILL MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR AT HIS EXPENSE AND SUITABLE REPLACEMENT MATERIAL PROVIDED AT NO ADDITIONAL COST TO OWNER.
7. ALL TRENCHES SHALL MEET O.S.H.A. REQUIREMENTS.
8. ROADWAY RESURFACING SHALL BE REPLACED AS SHOWN IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR CURRENT REQUIREMENTS OF THE CONTROLLING AUTHORITY, WHICH EVER IS MORE STRINGENT AS DEFINED BY THE ENGINEER.
9. PAVEMENT REPLACEMENT TO CONSIST OF THE FOLLOWING:

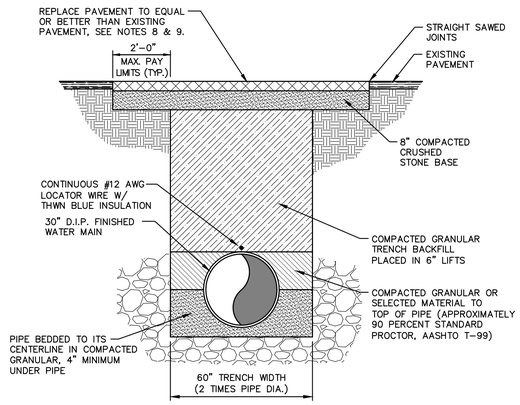
ASPHALT
MATERIAL: HOT MIX ASPHALT
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 4" COMPACTED IN PLACE
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL
TACK COAT TOP OF FLOWABLE FILL OR PRIME CRUSHED STONE BASE AT A RATE OF 0.25 GALLON / SQUARE YARD.

CONCRETE
MATERIAL: PORTLAND CEMENT CONCRETE 4,000 PSI @ 28 DAYS
DOWEL W/#4x24" @ 24" O.C.
THICKNESS: MATCH EXISTING (NOT LESS THAN 6")
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL

GRAVEL
MATERIAL: 1" MINUS CRUSHED STONE
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 6" COMPACTED IN PLACE
NOTE: DELETE CRUSHED STONE BASE AND SAW JOINT REQUIREMENTS



TYPICAL TRENCH



GRANULAR BACKFILL WARRANTED CONDITIONS

(INCLUDING ROCK EXCAVATION)

1 C18 TRENCH CONDITIONS

SCALE: 3/8" = 1'-0"

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C18
22 OF 27 SHEETS

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PLOTTED: 1/29/2024 @ 11:14:00 AM BY elliott, seth

COUNTY HIGHWAY PERMIT
COUNTY OF JERSEY

THIS AGREEMENT made this _____ day of _____ 20____, between County Highway Engineer of Jersey County, State of Illinois (hereinafter designated "County") and Illinois Alluvial Regional Water Company (hereinafter designated "Owner"), their successors and assigns.

WHEREAS, Owner has requested permission and authority to construct, operate, maintain, repair, renew, extend, and remove an underground water transmission and distribution system consisting of mains, valves, valve boxes, meters, meter boxes, and other appurtenances (hereinafter referred to as "water system") in, upon, along, under, and across county highways in the County of Jersey and State of Illinois over which the County of Jersey has now or may in the future have jurisdiction.

WHEREAS, it is in the public interest that such a water system be so constructed, operated, and maintained,

WHEREAS, the proposed installation is described as follows:

Boring and open cutting water mains and under various County Highways (see attached list).

NOW THEREFORE, BE IT RESOLVED, by the County that Owner be and are hereby granted the above-described permission and authority for a term of perpetuity commencing from this date, provided that the facility is so constructed to meet the approval of the County Engineer and that he is notified when construction is to begin.

This permission and authority and permit from the County Engineer of Highways is granted subject to the following limitations and conditions:

1. The OWNER shall submit a plan and specifications of any proposed work to the County Engineer of Highways for approval before any work is started. Said plan and specifications shall show the type and extent of work proposed and any other pertinent information that might be required by the County Engineer of Highways. In case of minor or emergency repairs, no such plan and specifications will be required.

2. Upon completion of any work, the County Engineer of Highways shall be given written notifications, and, if completed in a satisfactory manner, he shall provide the OWNER with a letter of acceptance. This letter of acceptance shall in no way relieve the OWNER of his responsibility under this resolution.

3. All water lines shall be buried at least forty-eight inches (48") below the road surface and the road ditch, sufficient to permit proper maintenance of the roads and proper cleaning of all roadway ditches without interference of the water lines.

4. All disturbed roadway ditches shall be regraded and reseeded for proper drainage.

5. The construction company installing said water lines over and across County highways shall give the Jersey County Highway Department at least forty-eight (48) hours notice of each intended bore under the roads, and shall further permit said Jersey County Highway Department to be present to inspect the installation, backfilling, and restoration of road ditch at the time of all work involving the County roads.

6. The OWNER upon written request of the County Engineer of Highways, will lower, relocate, or rearrange any of its pipe lines and appurtenances within the present limits of any said road right-of-way at OWNER's expense whenever it becomes necessary in the construction, maintenance, or improvement of said roads.

7. The OWNER will be liable for the entire cost of relocation or damage to all existing utilities caused by the construction, maintenance, and repair to their own "water system".

8. In the case of damage to the existing highway caused by the construction, reconstruction, or maintenance of said water system, the OWNER shall repair said damage within ten days of receipt of written notification from the county, climatic conditions permitting. If, at the end of ten days, said damage to the highway is not repaired in a satisfactory manner, and the delay is not caused by climatic conditions, the County may repair said damage and the actual cost of such repair, including the cost of all material and labor, shall be paid to the County by the OWNER upon receipt of an itemized statement of costs.

9. The OWNER shall take all necessary precautions by use of signs, signals, flagmen, or watchmen, to protect the general public and all reasonable measures to cause least interference with traffic movement along the roadways where reconstruction or maintenance is in progress. All traffic control shall be in accordance with the State of Illinois "Manual of Uniform Traffic Control Devices" and amendments thereof.

10. The OWNER warrants that the water system shall be constructed, operated, and maintained in accordance with the rules and regulations promulgated by the Illinois Environmental Protection Agency and in accordance with the laws, resolutions, ordinances, and regulations of the State of Illinois or any branch thereof.

11. The OWNER, where called for on the plans, shall bore all water mains County highways. No open excavation including direction boring pits shall be located, any portion of the excavated area, any closer than ten (10) feet from the edge of the pavement as measured from the edge of the stabilized road surface.

12. The OWNER, where called for on the plans, shall open cut the County Highway to install the steel casing and water main. The trench shall be backfilled with excavated material except for the under the improved surface and two feet beyond the improved surface where compacted rock backfill will be used for the entire

depth. The OWNER shall repair the surface to like condition at time of construction.

13. The OWNER will provide to the County Highway Department both a pre-construction and post construction videos.

14. All water main passing under County highways shall be encased in ASTM A139 Grade B welded-joint steel pipe. The steel casing shall extend a minimum of ten feet (10') from the edge of the pavement in both directions and will be grouted to the water main at each casing end.

BE IT FURTHER RESOLVED that the County shall transmit two certified copies of this resolution to the Illinois Alluvial Regional Water Company, in care of Seth Elliott, Project Manager, 1004 State Highway 16, Jerseyville, Illinois 62052.

BE IT FURTHER RESOLVED that the permission and authority herein granted is limited to the jurisdiction the County may have over said highways, and does not presume to release the OWNER from fulfilling any and all statutes relating to constructing, operating, inspecting, maintaining, repairing, and changing the size of the water system and all appurtenances thereto and/or statutes relating to the right of owners of abutting property along said highways.

ACCEPTED:_____
Allen Davenport, Chairman
Illinois Alluvial Regional Water Company

ATTEST: _____
Sue Campbell, Secretary
Illinois Alluvial Regional Water Company

Approved and Permit granted this

_____ day of _____, 20_____.

Subject to the attached provisions.

Approved: _____
Thomas Klasner, County Engineer of Highways
Jersey County Highway Department

HENEGHAN ASSOCIATES

Jerseyville, IL 1004 State Highway 16
Mt. Vernon, IL 800 Broadway Suite 3
Columbia, IL 310A Vision Drive
Maryville, IL 2140 Vadalabene Drive
Arnold, MO 1929 Richardson Road
618.498.6418 www.haengr.com

September 30, 2026

Jersey County Highway Department
722 State Highway 16
Jerseyville, IL 62052

Attn: Mr. Thomas Klasner

Re: Finished Water Transmission Main
Illinois Alluvial Regional Water Company
Jersey County, Illinois
H&A File 71000-412

Dear Mr. Klasner:

The following is a request on behalf of the Illinois Alluvial Reginal Water Company,1004 State Highway, Jerseyville, IL 62052 (618-498-7708) to install water main in County Highway Right-of-Way. The proposed locations are indicated on the plans and in the chart below. The main will be installed inside a steel casing and will carry finished water, be made of HDPE pipe with the sizes shown in the attached chart and as indicated on the plan sheets. The steel casing pipe will be sealed at each casing end. The length of the steel casing will extend a minimum of 10-feet beyond edge of pavement and as specified on the Construction Drawings and in the table enclosed. The steel casing will have at least 48-inches of ground cover at all locations, as shown on the enclosed detail sheet. No longitudinal installation is currently expected. We will notify and revise the permit if we need to move to ROW.

The OWNER, where called for on the plans, is requesting permission to bore water mains under County Highways. At these locations, open excavation including boring pits, shall be located, so that no portion of the excavated area will be closer than ten (10) feet from the edge of the pavement as measured from the edge of the stabilized road surface.

The OWNER will provide to the County Highway Department both a pre-construction and post construction videos.

See the enclosed location maps, aerial sheets, and page(s) of specifications for more details regarding this permit application. If you have any questions or require additional documentation, please call me at 618-498-6418 or e-mail swelliott@heneghanassoc.com.

The requested crossing locations as follows:

Crossing Chart

Crossing Type	Contract and Aerial Sheet No.	Section	Township	County Highway	Water Main Dia. (in.)	Casing Diameter (in)	Min. Casing Length (ft.)
Bore	Contract F C1	30	English	St. Mary's Rd.	36"	48"	40'
Bore	Contract F C8	22/23	English	Costello Rd.	36"	48"	40'
Bore	Contract F C7	25/26	English	Otterville Rd.	36"	48"	65'
Bore	Contract G C14	32	Jersey	Maple Summit Rd.	36"	48"	40'
Bore	Contract G C17	33	Jersey	Crystal Lake Rd.	36"	48"	60'

Sincerely,
HENEGHAN AND ASSOCIATES, P.C.

Seth W. Elliott, P.E.
Project Manager

DIVISION 33 - SITE CONSTRUCTION

SECTION 330523.13 - HIGHWAY CROSSINGS

1.00 GENERAL

A. Furnish all materials, accessories, equipment, tools, transportation, services, labor and perform all operations necessary for the installation of pipelines on or under railway and/or highway property.

B. The contractor shall be responsible for notification of appropriate officials as required by Highway and Railroad permits.

C. The contractor is responsible for any charges by the Railroad/s for flagmen, foremen, engineering observers, and others; and by IDOT and others during the course of the work; and shall include such costs in his bid price

1.01 DESCRIPTION OF WORK

A. Pipelines laid under highways and across highway rights-of-way shall be encased in a larger pipe or conduit (casing pipe).

B. Casing pipes shall be installed by simultaneously dry boring and jacking method, or horizontal directional drilling as called out on plans.

C. Laws and orders of highway authority prescribing a higher degree of protection than specified herein shall supercede the applicable portions.

D. Pipelines and casing pipe shall be suitably insulated from underground conduits carrying electric wires on rights-of-way.

E. Applicable Sections: 312300 Excavating, Filling and Grading and 330500 Utility Materials.

1.02 SUBMITTALS

A. Type of material including product data specifications.

B. Name and address of proposed subcontractor.

C. All exceptions or substitutions to the specifications.

2.00 PRODUCTS

2.01 CARRIER PIPE

A. Carrier line pipe shall be of material, and pressure class, as shown on the plans or as approved by the Engineer.

B. Pipe shall be laid with sufficient slack so that it is not in tension.

C. Length of carrier pipe shall be as shown on the plans.

2.02 CASING PIPE

A. Casing pipe shall be continuous butt-welded steel pipe with a coal tar epoxy protective coating (outside of pipe) capable of withstanding highway and railway loading.

B. In all cases, pipe diameter shall be great enough to allow carrier pipe to be removed subsequently without disturbing the casing pipe or roadbed.

C. Annular spaces at the ends of the casing shall be sealed with Pipeline Seal and Insulation, Inc. (PSI) Models or approved equal and shall be pull-on casing end seals with stainless steel banding straps.

D. Casing spacers shall be installed on 6' intervals around the carrier pipe with double spacers at each end of the casing. One casing spacer must be within two (2) feet of each side of a pipe joint. Spacers shall have a minimum height that clears the pipe bell. Casing spacers shall be Cascade Waterworks model CCS with stainless steel and polyethylene with stainless steel bolts and nuts or approved equal.

E. Steel Pipe:

1. Steel pipe shall have a minimum yield strength of 35,000 psi (ASTM A53 Grade B).

2. Minimum wall thickness for steel casing pipe shall be as follows:

Nominal Thickness Inches	Nominal Diameter Inches
0.6045	42

F. Length of casing shall be as shown on the plans.

3.00 EXECUTION

3.01 GENERAL

A. Casing shall be installed as to prevent the formation of a waterway under the right-of-way, with an even bearing throughout its length and shall slope to one end.

3.02 METHOD OF INSTALLATION

A. Boring or Jacking:

1. Bored or jacked installations shall have a bored hole diameter essentially the same as the outside diameter of the pipe plus the thickness of the protective coating.

2. If voids should develop or if the bored hole diameter is greater than the outside diameter of the pipe (including coating) by more than approximately 1", remedial measures as approved by the Engineer shall be taken. Boring operations shall not be stopped if such stoppage would be detrimental to the highway or railroad.

3. Once the casing pipe has been bored, the receiving pit shall be opened up to establish if proper elevation of the casing has been accomplished. The carrier pipe, casing spacers and end seals shall be installed at the time of boring. Protect ends of carrier pipe from backfill.

B. Directional Boring:

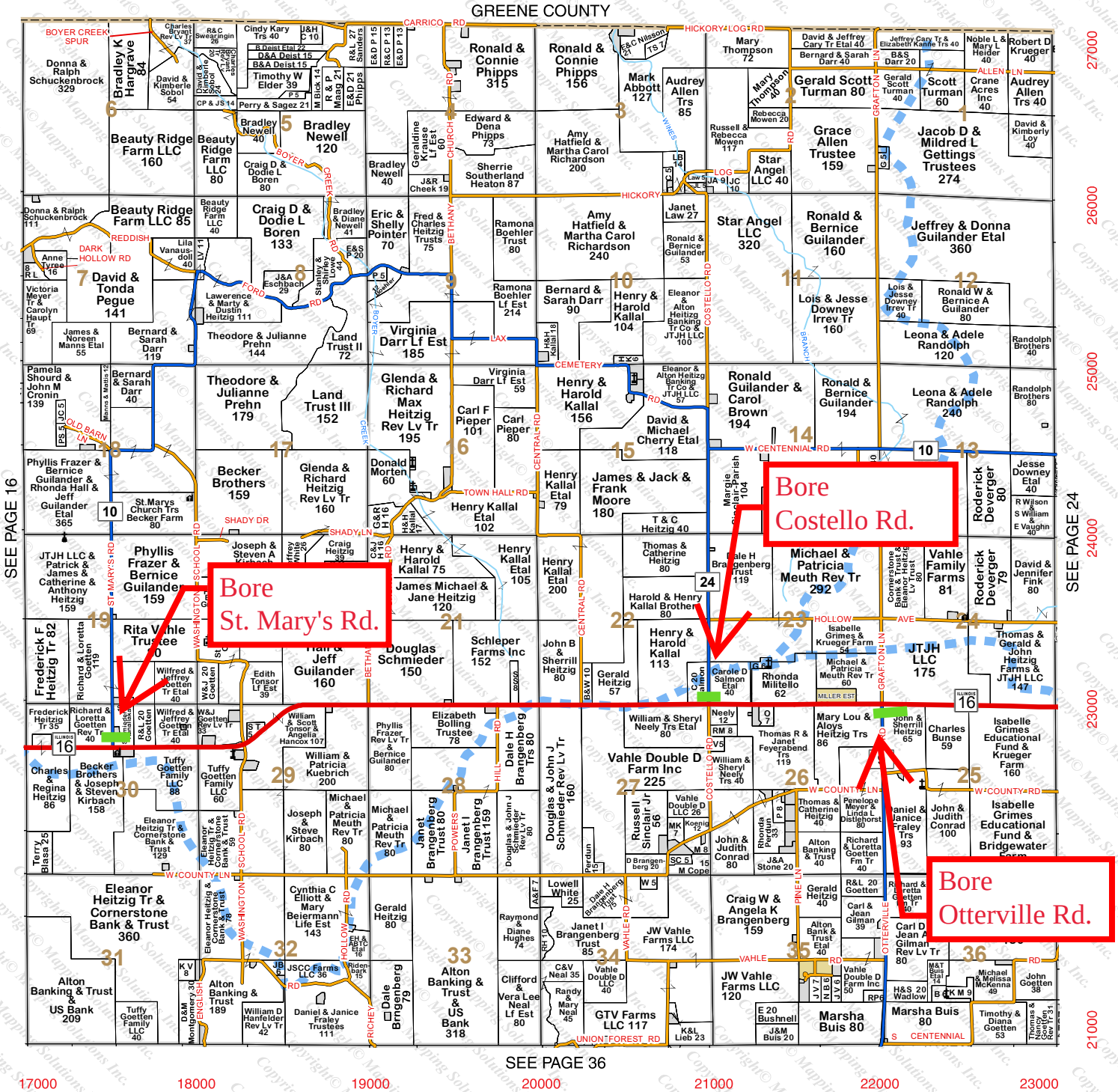
1. Once the casing pipe has been bored, the receiving pit shall be opened up to establish if proper elevation of the casing has been accomplished. The carrier pipe, casing spacers and end seals shall be installed at the time of boring. Protect ends of carrier pipe from backfill.

3.03 EXECUTION OF WORK

A. The execution of work on rights-of-way shall be subject to the inspection and direction of both the Owner and respective rights-of-way Engineers or their designated representatives.

B. The Contractor shall comply with all requirements, including bonding and insurance, of the highway or railway authorities having jurisdiction and shall also comply with any permits, licenses, etc. issued with respect to this project.

END OF SECTION 330523.13

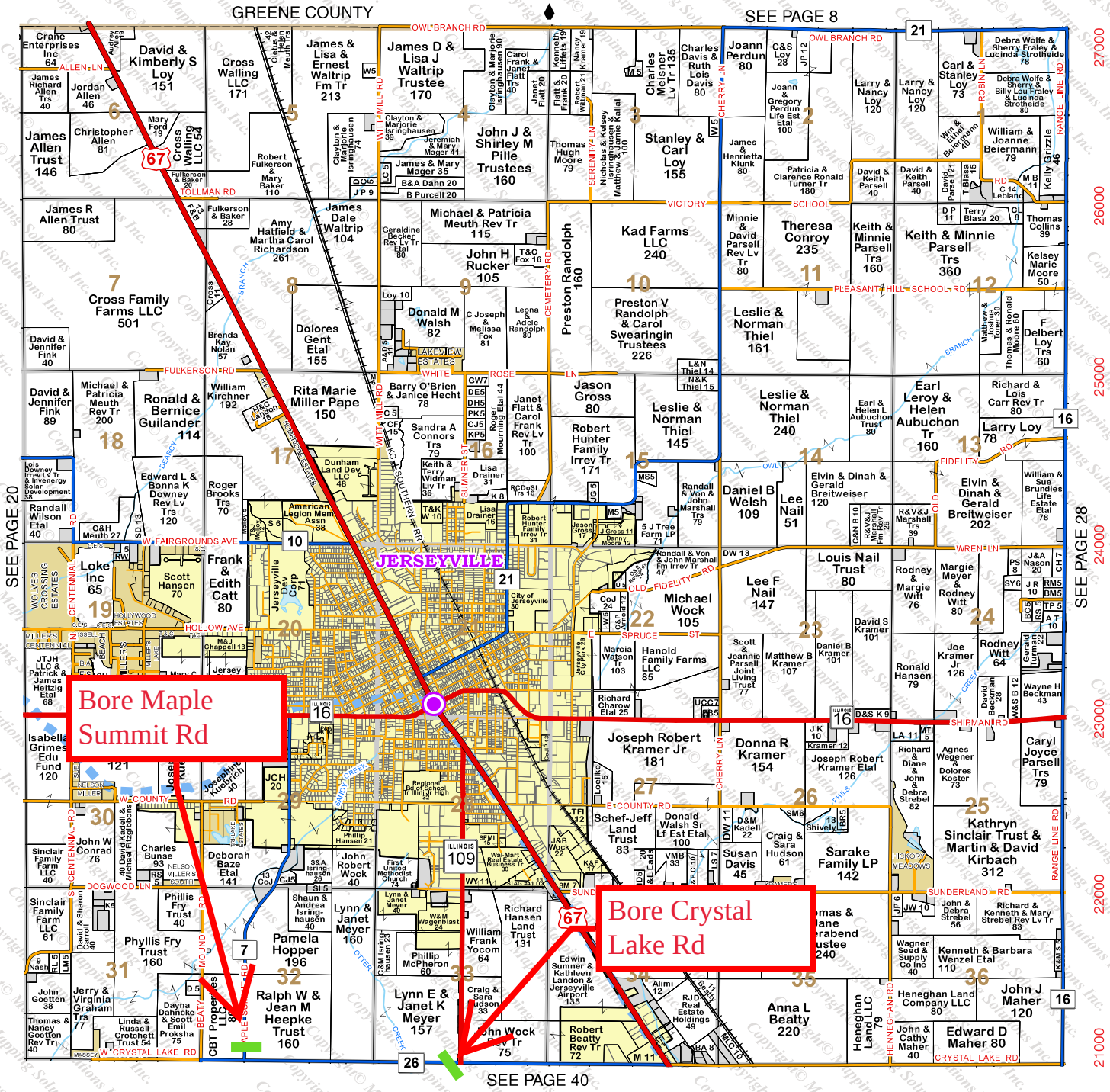

English
0 0.5 1 2 Miles
Township 8N - Range 12W
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GREENE COUNTY
SEE PAGE 16
SEE PAGE 24
SEE PAGE 36
Bore
Costello Rd.
Bore
St. Mary's Rd.
Bore
Otterville Rd.
17000
18000
19000
20000
21000
22000
23000
21000
22000
23000
24000
25000
26000
27000

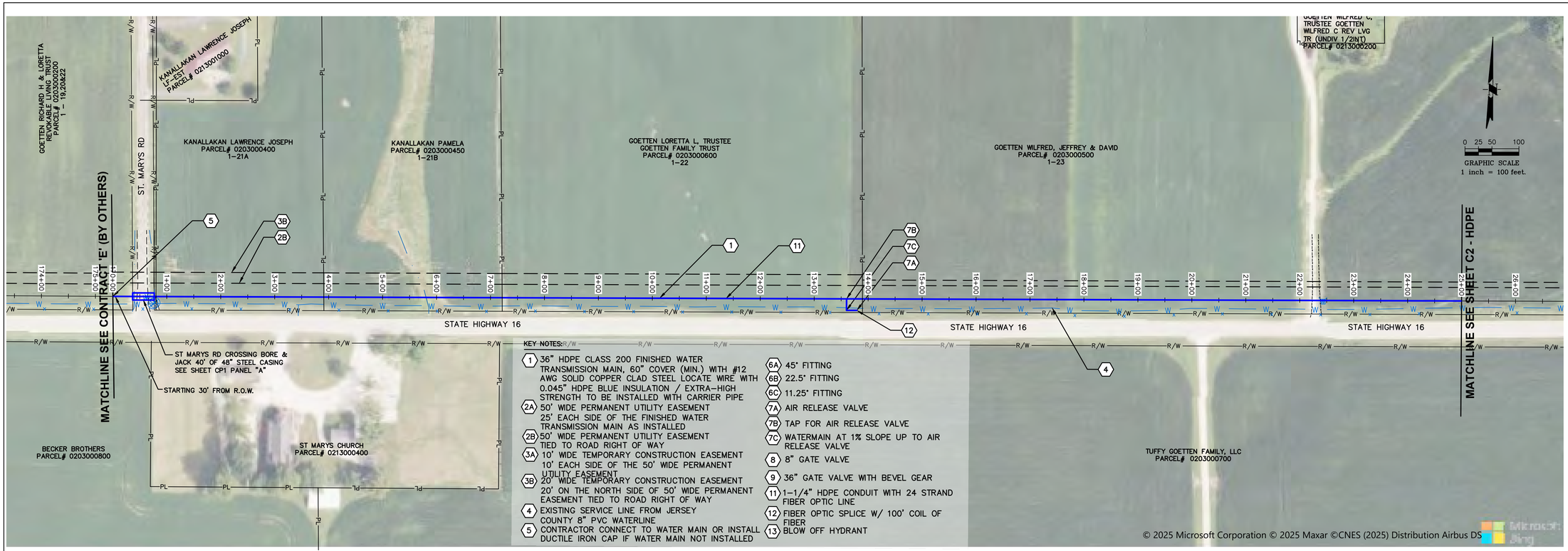
Jersey (S)

0 0.5 1 2 Miles

Township 8N - Range 11W

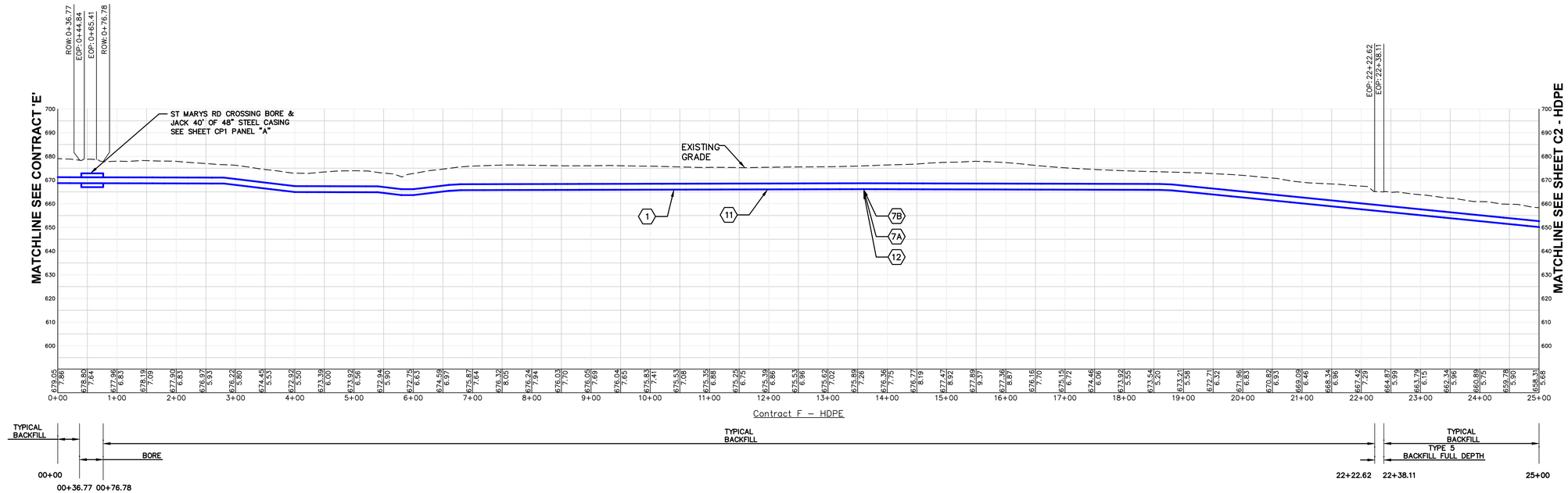
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KEY NOTES:

1. 36" HDPE CLASS 200 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING SERVICE LINE FROM JERSEY COUNTY 8" PVC WATERLINE
5. CONTRACTOR CONNECT TO WATER MAIN OR INSTALL DUCTILE IRON CAP IF WATER MAIN NOT INSTALLED
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE
8. 8" GATE VALVE
9. 36" GATE VALVE WITH BEVEL GEAR
11. 1-1/4" HDPE CONDUIT WITH 24 STRAND FIBER OPTIC LINE
12. FIBER OPTIC SPLICE W/ 100' COIL OF FIBER
13. BLOW OFF HYDRANT



MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2027
MO: 2018004041
EXPIRES: DECEMBER 31, 2026
900 S. HIGHWAY DR.
SUITE 202
FENTON, MO 63026
P: (636) 395-7055

NO.	DATE	REVISIONS

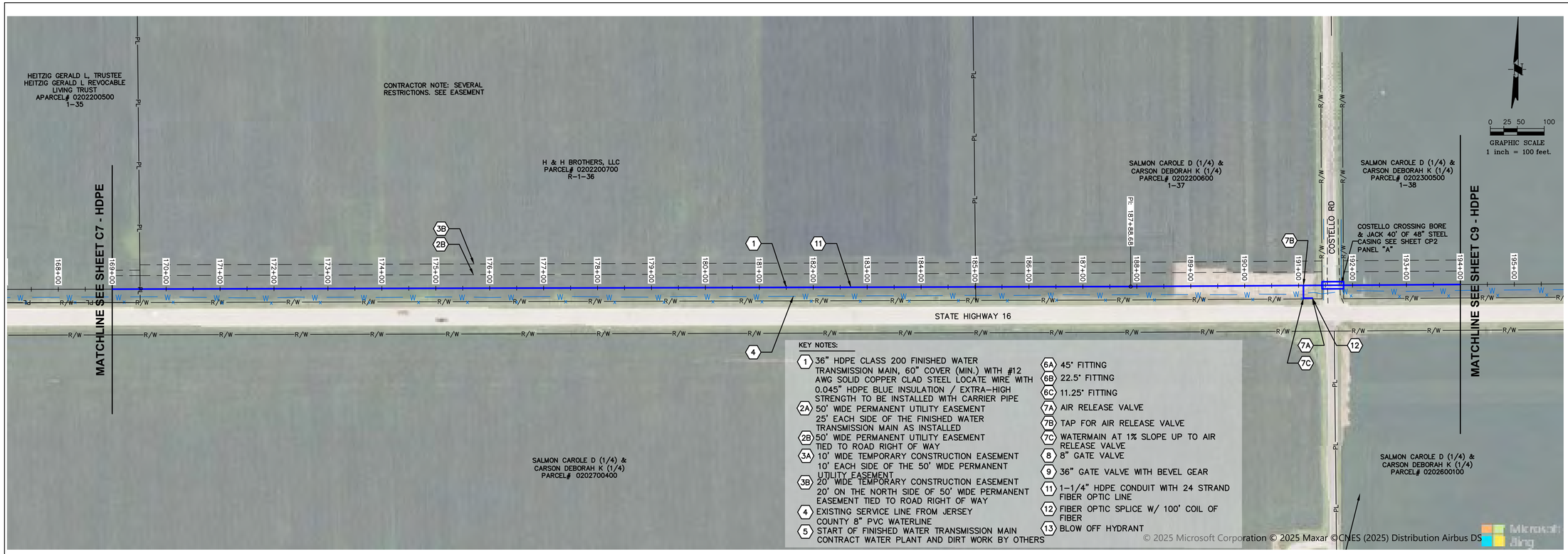
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN AERIAL PLAN AND PROFILE

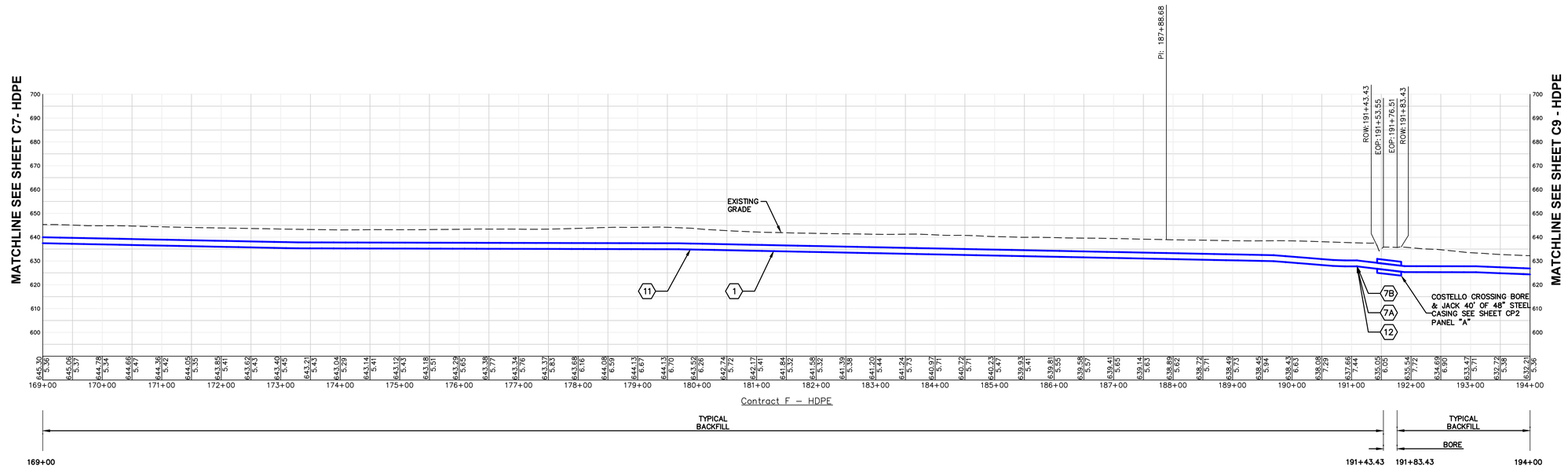
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-412
DATE:	9/7/2026
SHEET NO.	C1-HDPE

4 OF 23 SHEETS

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APPROVED BY: SWE

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VERTICAL SCALE: 1"=25'

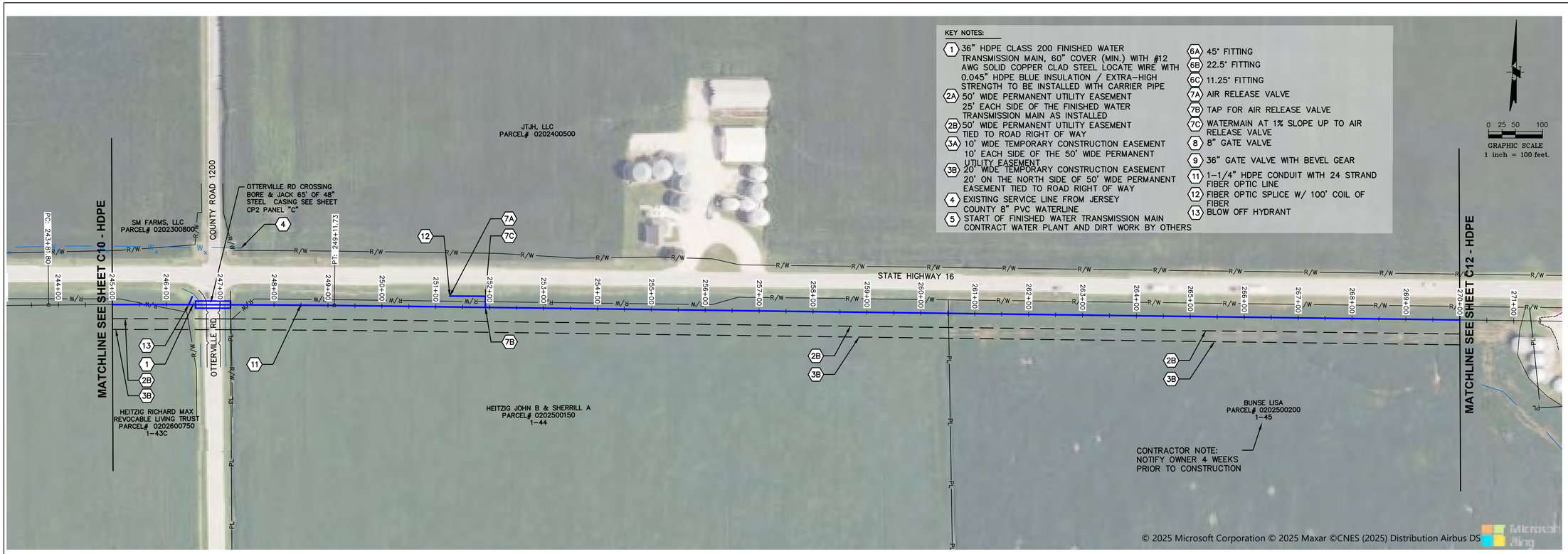
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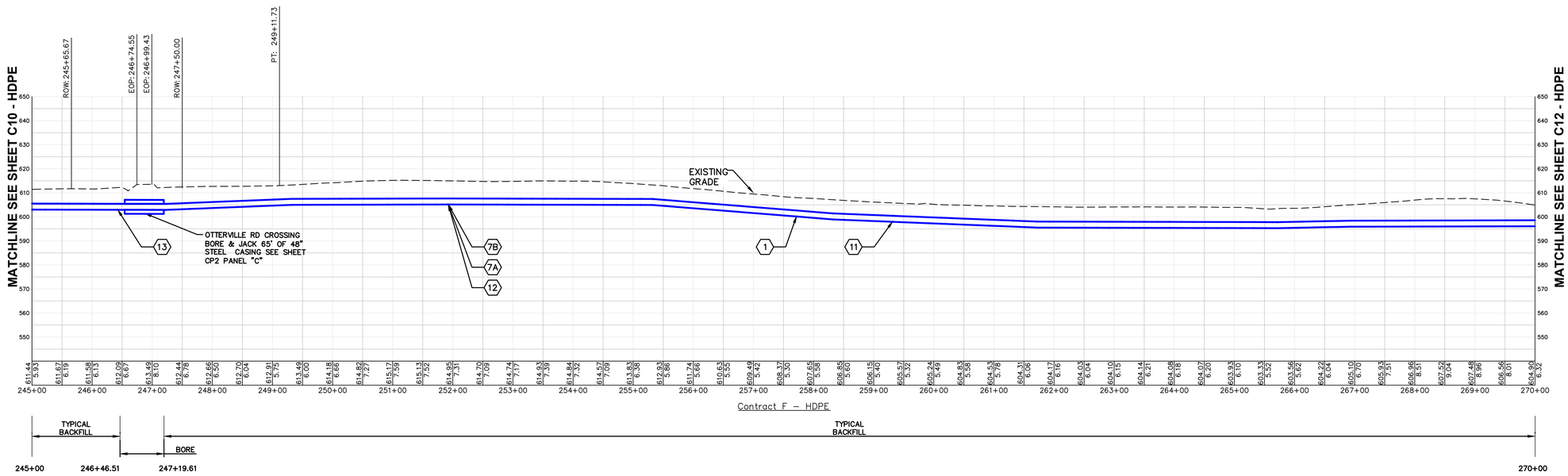
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SHEET NO. C8-HDPE

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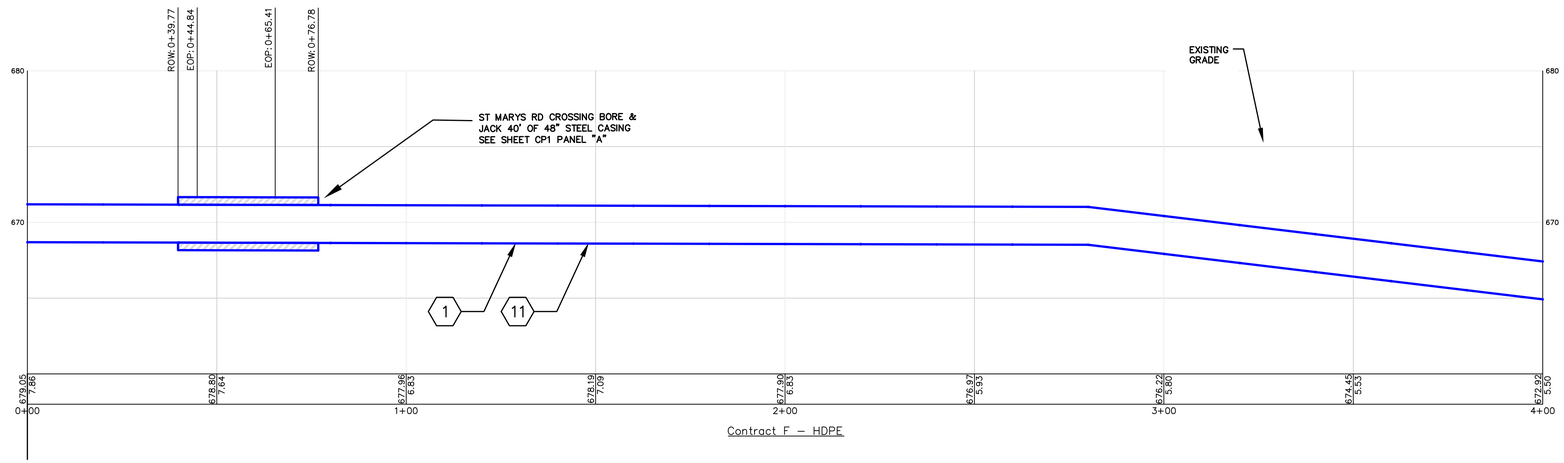
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AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

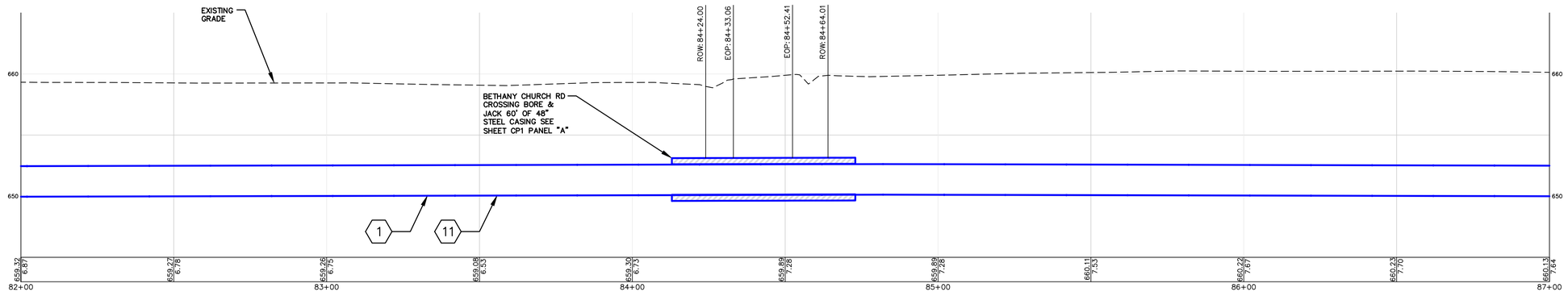
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PROJECT NO. 71000-412
DATE: 9/7/2026
SHEET NO. C11-HDPE
14 OF 23 SHEETS

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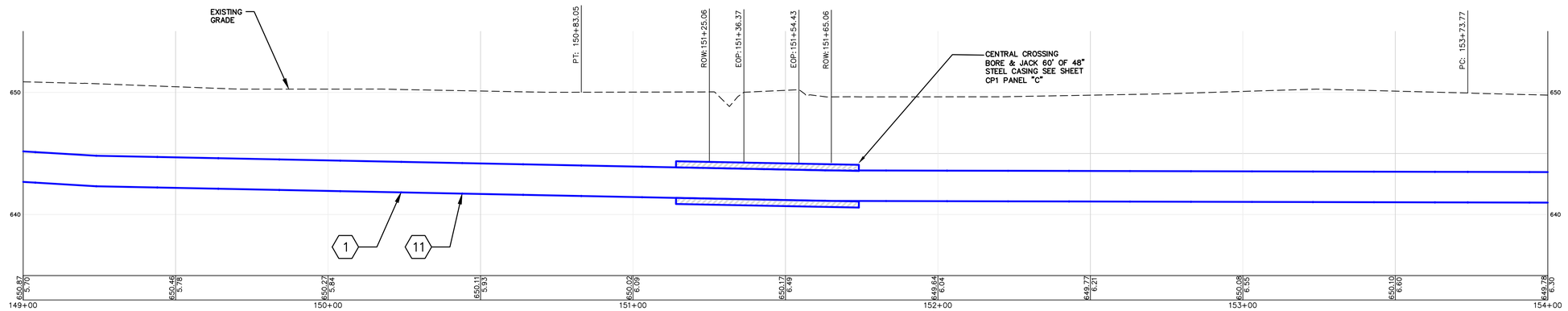
PANEL 'A'

Contract F – HDPE



PANEL 'B'

Contract F – HDPE



PANEL 'C'

Contract F – HDPE

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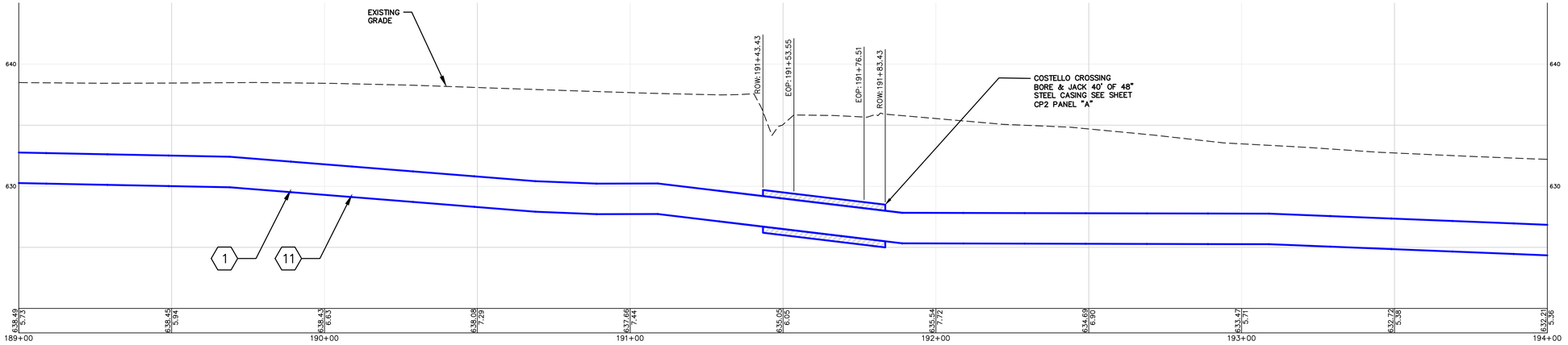
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CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
ROAD CROSSING PROFILES

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

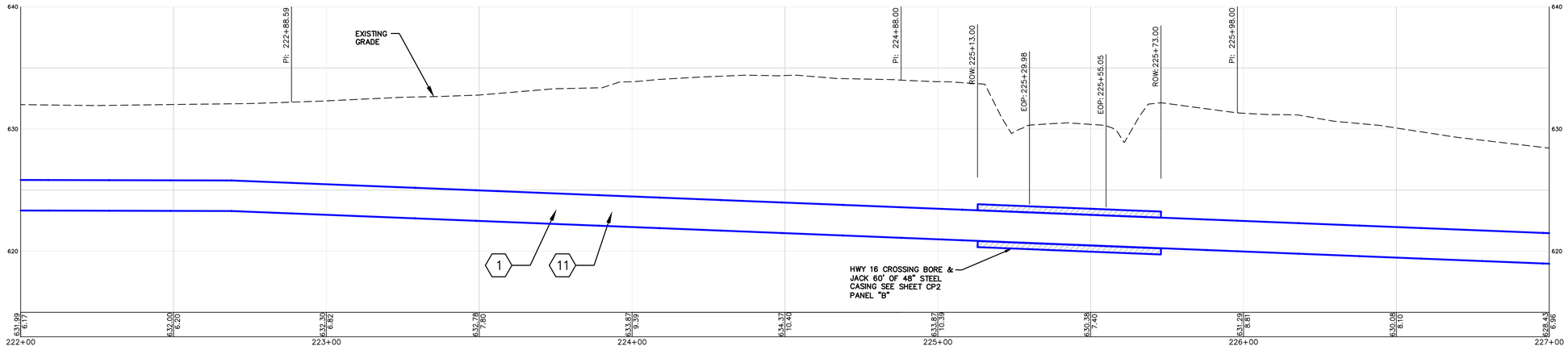
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PROJECT NO.	71000-412
DATE:	9/7/2026
SHEET NO.	CP1-HDPE
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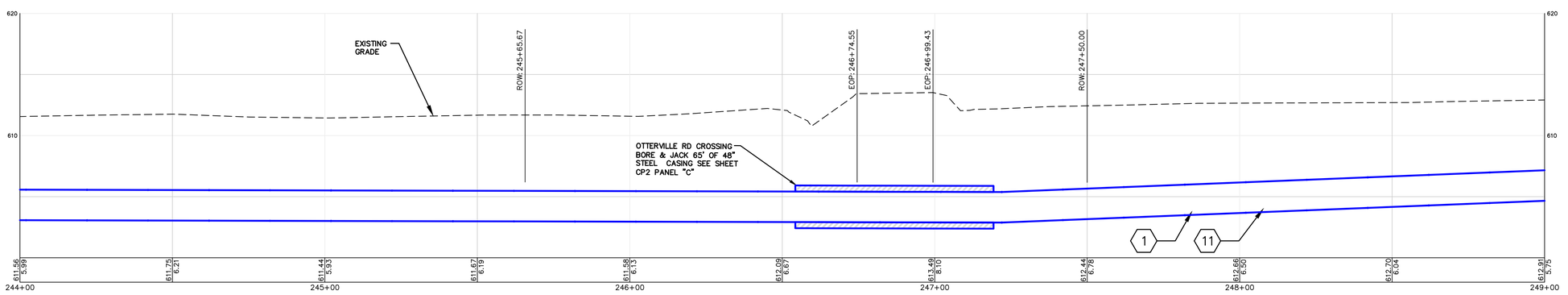
PANEL 'A'

Contract F – HDPE



PANEL 'B'

Contract F – HDPE



PANEL 'C'

Contract F – HDPE

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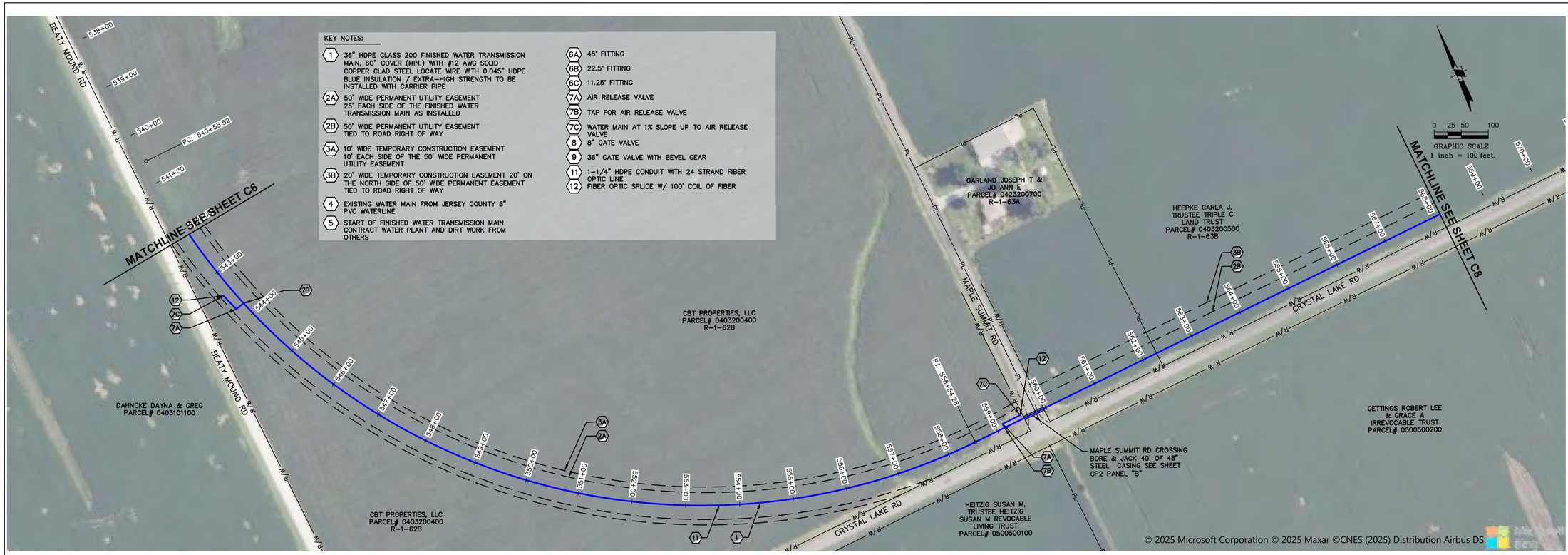
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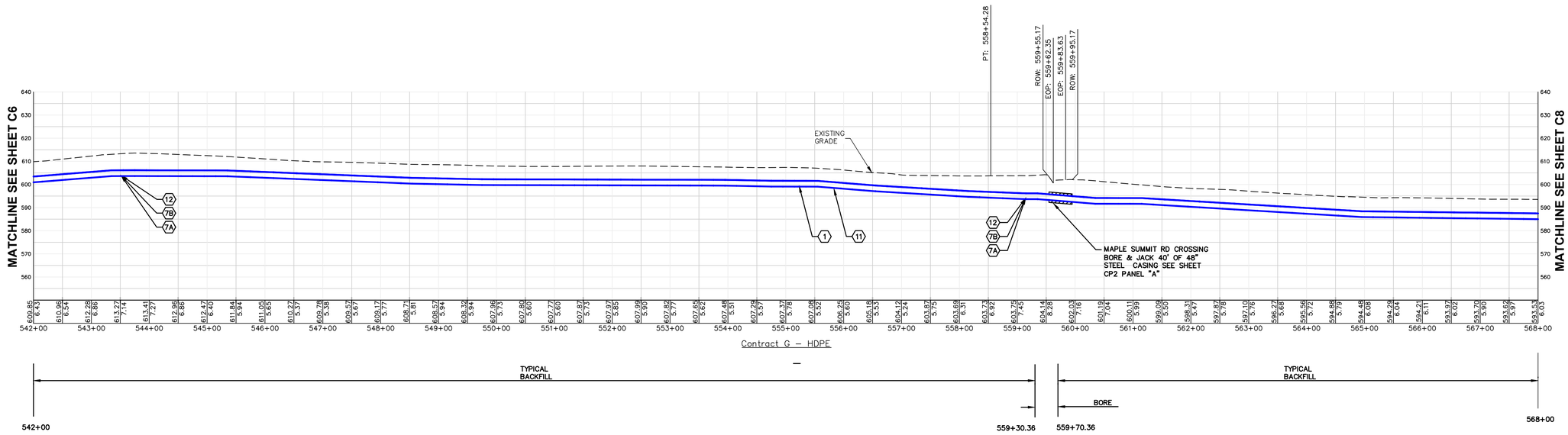
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PROJECT NO.	71000-412
DATE:	9/7/2026
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18 OF 23 SHEETS

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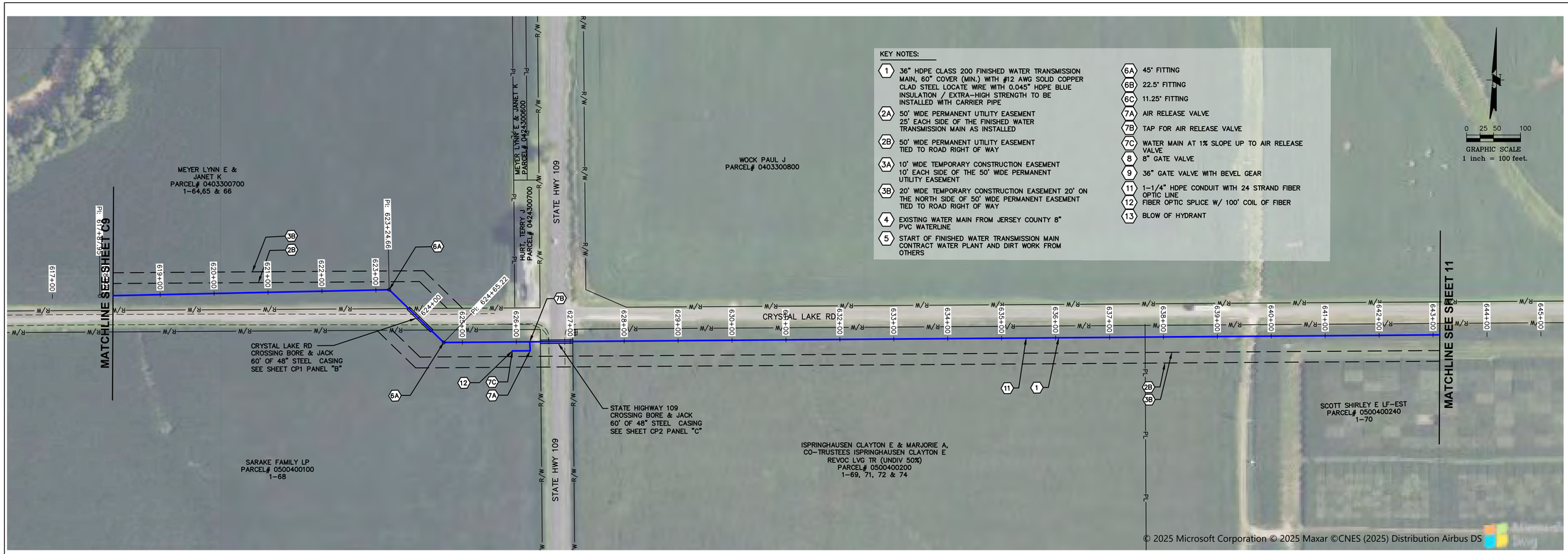
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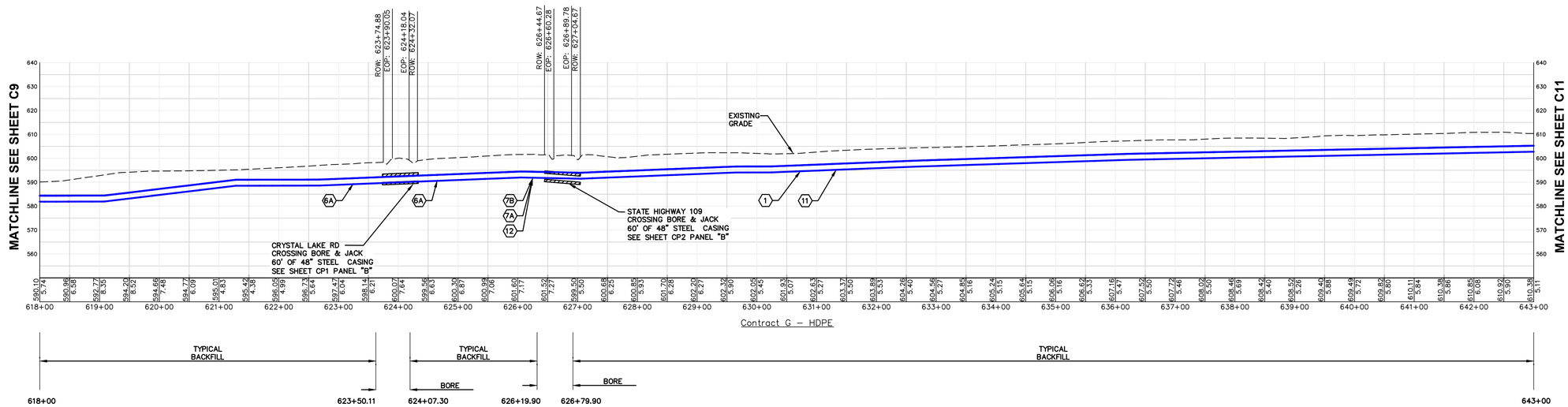
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-412
DATE: 9/7/2026
SHEET NO. C7-HDPE
10 OF 25 SHEETS

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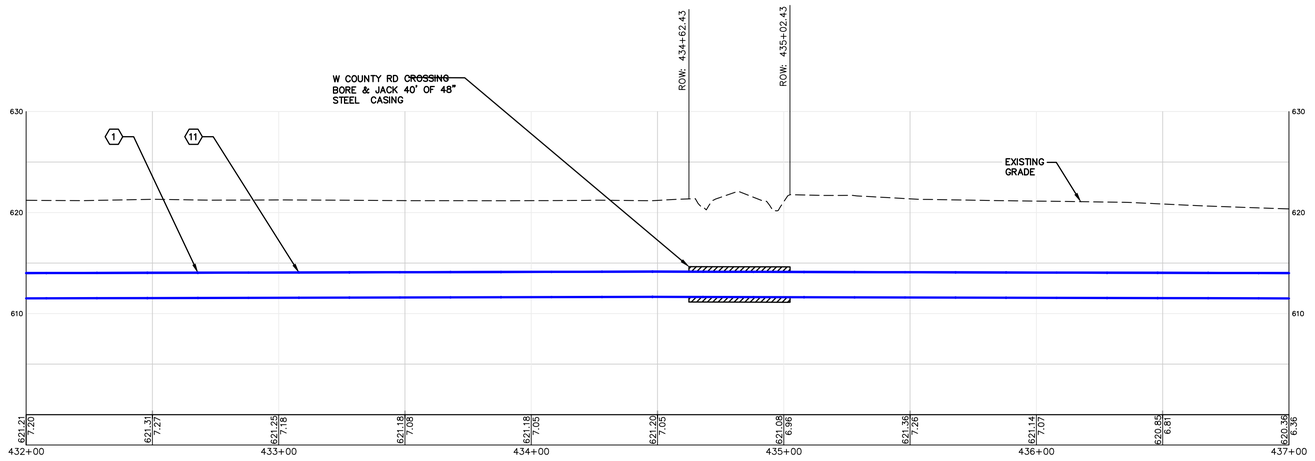
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

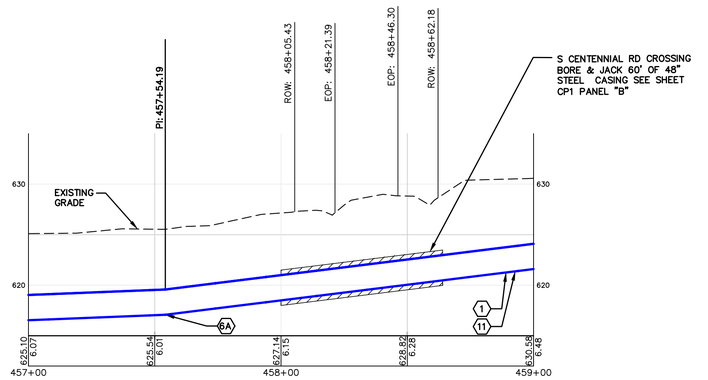
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13 OF 25 SHEETS

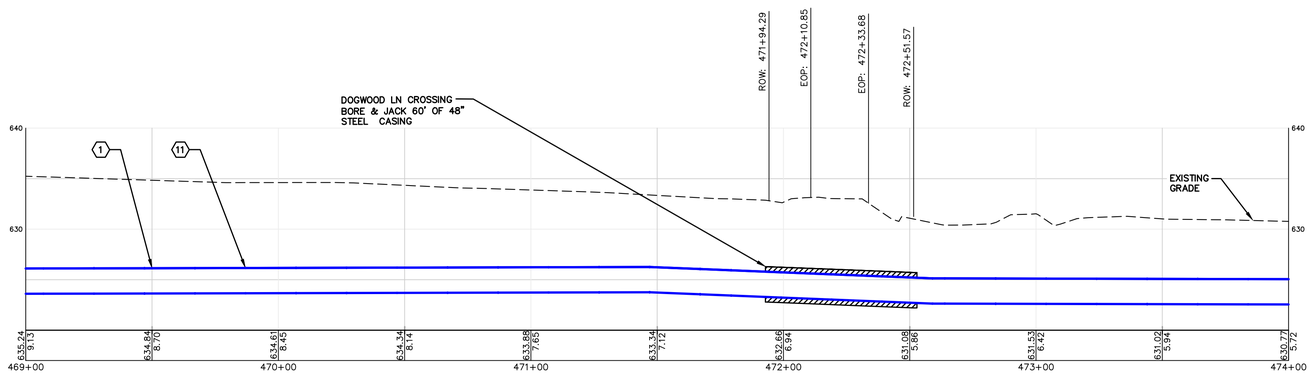
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Contract G – HDPE



Contract G – HDPE



Contract G – HDPE

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FINISHED WATER TRANSMISSION MAIN
ROAD CROSSING PROFILES

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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APPROVED BY: SWE

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VERTICAL SCALE: 1"=5'

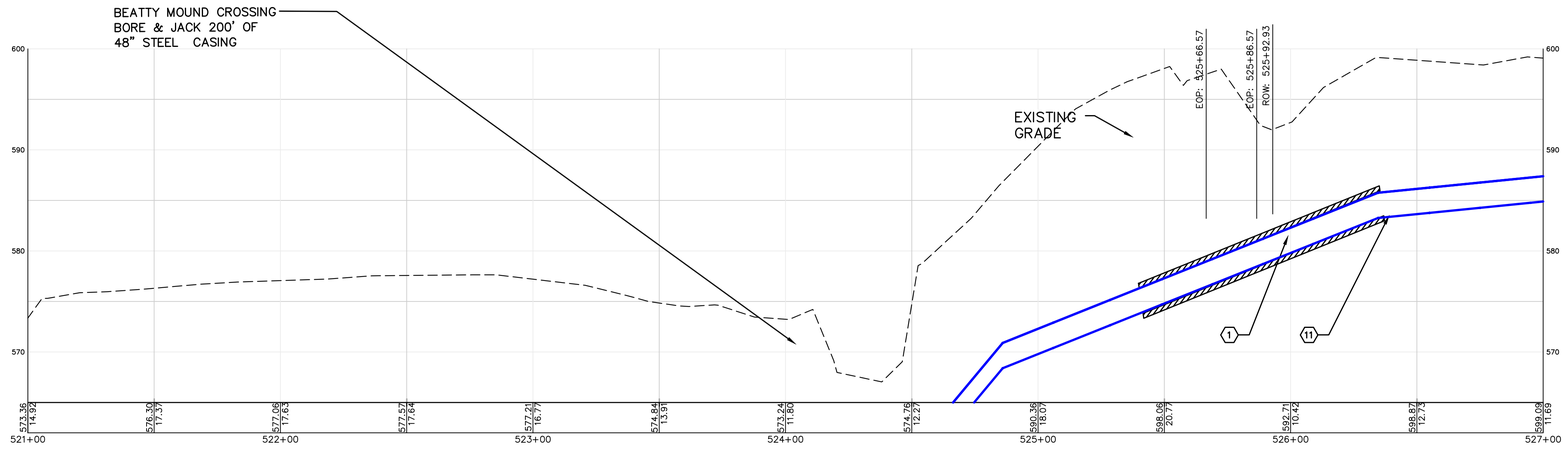
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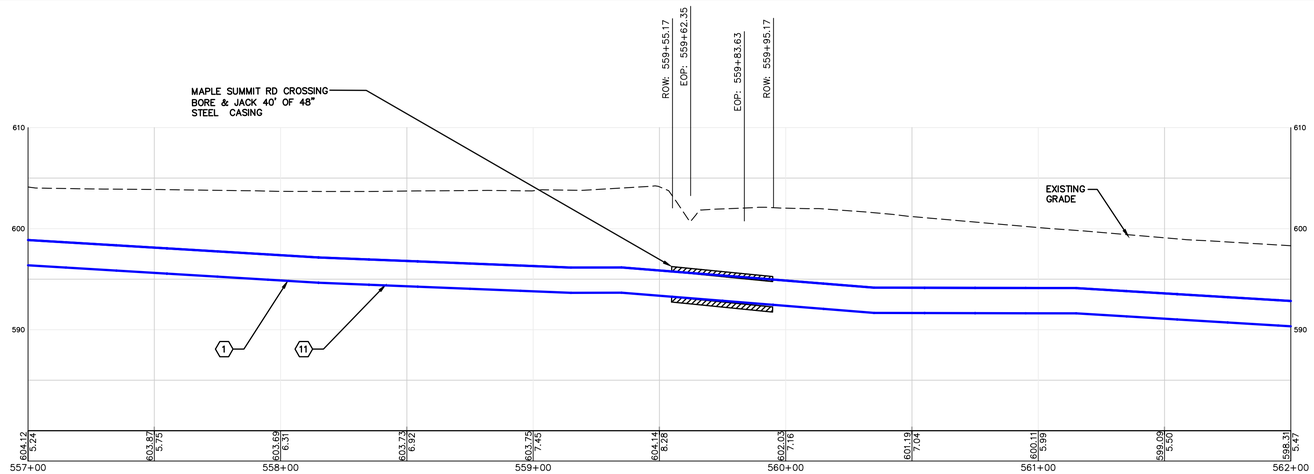
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18 OF 25 SHEETS

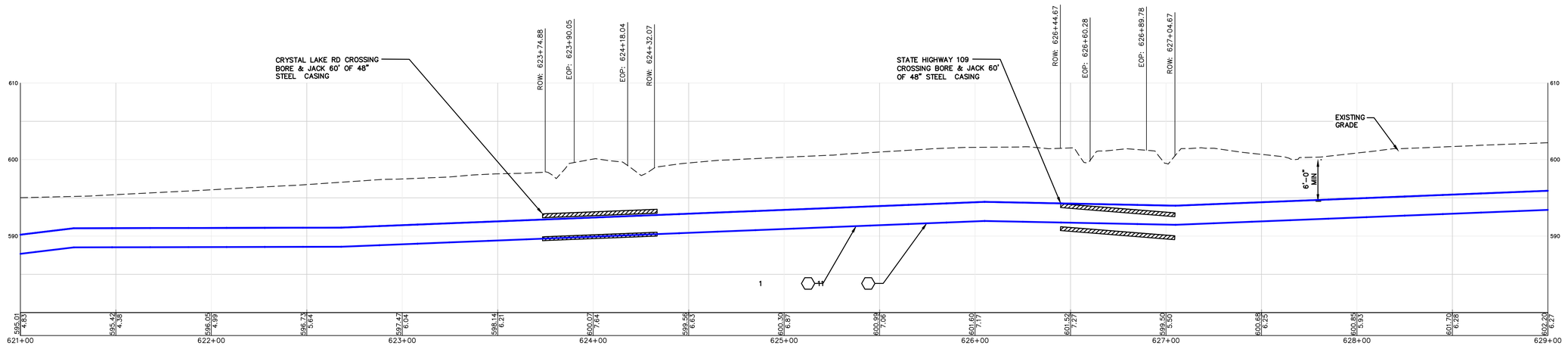
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Contract G – HDPE



Contract G – HDPE



Contract G – HDPE

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Illinois Department of Transportation

Utility Permit

IDOT Public Improvement ☐ Yes ☐ No

IDOT Permit No. 8-34683

Utility Reference No. IARWC 16 Long/Cross

I (We) Name of Applicant: Illinois Alluvial Regional Water Company

E-mail:

Mailing Address: 1004 State Highway 16

City: Jerseyville

State: IL

Zip Code: 62052

hereinafter termed the Permittee, request permission and authority to occupy, and to do certain work herein described on, the right-of-way of the State highway known as FAP 325 (IL 16), Section 1, 2&2A, in Jersey County.

Latitude/Longitude Begin Varies End Varies

The work is described in detail below and/or on the attached sketch or plans.

Sec. 21, 23, & 26 T8N- R12W Longitudinally install 30" diameter ductile iron water main in IDOT ROW
Long 1 begins 39.108700 -90.507150 ends 39.108700 -90.504250, Long 2 begins 39.116300 -90.446100 ends 39.116300 -90.436600.
See page 3 for crossing description/location.

This permit covers the operation and presence of specified equipment, material or facility on the right-of-way that may be related to the authorized work. A copy of this permit must be present when crews or equipment occupy highway right-of way. Failure to comply may result in the cessation of all construction.

This permit is subject to conditions and restrictions of Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of Utilities on Right-of-Way of the Illinois State Highway System. The removal, relocation or modification of facilities permitted to occupy the right-of-way is governed by Section 9-113 of the Illinois Highway Code, as amended by Public Act 92-0470. The Permittee agrees to comply with the requirements of these laws and with all terms and conditions established by this permit. This permit is subject to revocation by the Department on violation of the terms and conditions governing its use.

Permittee Signature & Date

Allen Davenport Digitally signed by Allen Davenport Date: 2024.04.19 13:29:16 -05'00'

Name of Permitee or Agent (Print or Type): Allen Davenport

Mailing Address: 1004 State Highway 16

City: Jerseyville State: IL Zip Code: 62052

The work authorized by this permit shall be completed by _____ or within 180 calendar days (180 days max.) after the date of approval by the Department, otherwise the permit will be considered null and void.

Public Improvement Projects only: The anticipated letting date is _____

The permit allowing occupancy and work on state right-of-way is approved. The Utility Coordination Council established by the Department in the area covered by this permit is the district in which the permit was issued.

Regional Engineer or Designee Signature & Date

Kirk H. Brown Digitally signed by Kirk H. Brown Date: 2024.08.15 10:10:59 -05'00'

This permit is subject to the conditions and restrictions **established in accordance with the Illinois Highway Code and** Part 530 of Title 92 of the Illinois Administrative Code including but not limited to the following:

(1) The applicant represents all parties in interest and shall furnish material, do all work, pay all costs and shall in a reasonable length of time restore the damaged portions of the highway to a condition similar or equal to that existing before the commencement of the described work, including any landscape restoration necessary. (See Section 530.250 of Title 92).

(2) The proposed work shall be located and constructed to the satisfaction of the Regional Engineer or his duly authorized representative. No revisions or additions shall be made to the proposed work on the right-of-way without the written permission of the Regional Engineer or his duly authorized representative (See Section 530.200 of Title 92). **In certain circumstances the Department may require that the construction plans and/or the as-built documents be sealed by an Illinois Registered Professional Engineer.** Typical of such projects would be petroleum or gas pipelines.

(3) The applicant shall at all times conduct the work in such a manner as to minimize hazards to vehicular and pedestrian traffic. All signs, barricades, flaggers, etc., required for traffic control shall be furnished by the applicant. (See Section 530.240 of Title 92).

(4) The applicant must ascertain the presence of Highway Authority Agreements established in accordance with 35 Ill. Admin. Code Section 742.1020 in the path of its proposed installation and take precautions to protect its workers, human health and the environment in those areas. (See Section 530.240 of Title 92). Where contamination is encountered through excavation in the ROW, it should be managed offsite and IDOT's generator number for the appropriate county may be used.

(5) The applicant shall not trim, cut or in any way disturb any trees or shrubbery along the highway without the approval of the Regional Engineer or his duly authorized representative. (See Section 530.600 of Title 92).

(6) The facilities authorized to occupy the right-of-way by this permit are subject to removal, relocation or modification by the permittee at no expense to the State on notice given by the Department in accordance with Section 9-113 of the Illinois Highway Code, as amended. Participation by the permittee in the UTILITY Coordination Council identified on page one of this permit is required as a condition of this permit. Permittee shall cooperate with the Department with the scheduling of any removal, relocation or modification deemed necessary for highway or highway safety purposes, and, if Utility Coordination Council participation is required by this permit, with the activities of the council identified on the first page of this permit. (See Section 9-113 of the Illinois Highway Code.) Use of and compliance with current IDOT Traffic Control Standards will be required.

(7) If the applicant and the District cannot agree either on whether the permit should be issued or on what conditions would be appropriate, the applicant may, within 30 days of the issuance of written notice of the District's position, appeal the District's determination to the Chief of the Department's Central Bureau of Operations. (See Section 530.900 of Title 92).

(8) The permittee agrees to fully comply with the following legal obligations in advance of entering and while upon any Right-of-way within the Illinois State Highway System.

a) Only a permit issued by the Department under this Part will satisfy the "written consent" requirement of Section 9-113 of the Illinois Highway Code (the Code).

b) A permit from the Department grants a license only to undertake certain activities in accordance with this Part on a State right-of-way, and does not create a property right or grant authority to the permittee to impinge on the rights of others who may have an interest in the right-of-way. Such others might include an owner of an underlying fee simple interest if the right-of-way is owned as an easement or dedication of right of way, an owner of an easement, or another permittee.

c) It shall be the responsibility of the permittee to ascertain the presence and location of existing above-ground or underground facilities on the highway right-of-way to be occupied by their proposed facilities. The Department will make its permit records available to a permittee for the purpose of identifying possible facilities. When notified of an excavation or when requested by the Department, a permittee shall locate, physically mark, and indicate the depth of its underground facilities within 48 hours excluding weekends and holidays.

d) The permittee shall avoid conflicts with any existing underground or above-ground facilities on or near the highway right-of-way. Both the Department and J.U.L.I.E. are to be contacted for assistance during the application process.

e) The permittee shall comply with all other applicable laws relating to the placement of utility lines.

f) The issuance of a utility permit by the Department does not excuse the permittee from complying with any existing statutes, local regulations or requirements of other Department (e.g., oversize and overweight vehicles) or the requirements of other State agencies including, but not limited to, the following:

Illinois Commerce Commission, Illinois Department of Agriculture
Illinois Department of Natural Resources, Illinois Department of Mines and Minerals
Illinois Environmental Protection Agency, Illinois Historic Preservation Agency

g) Rights of abutting and underlying property owners are protected by common law and Sections 9-113 and 9-127 of the Code. The permittee will address these rights prior to initiating activities on State right-of-way. The Department will not be a party in any negotiations between the utility and abutting property owners.

h) In no case shall the permit give or be construed to give an entity any easement, leasehold or other property interest of any kind in, upon, under, above or along the State highway right-of-way.

i) Each person responsible for a utility, in place on the effective date of this Part, on a State highway right-of-way shall notify the Department in writing, if that facility does not comply with this Part. The Department shall treat such a notice as a request for a variance under Section 530.130. Until informed that a variance will not be granted, a person responsible for a pre-existing utility will not be in violation of this Part. The failure to provide such notice constitutes a violation of this Part and of the utility accommodation permit (if any) and would justify the imposition of the sanctions set forth in Section 530.810.

Work to be coordinated with Department Reps:

Department Rep 1	Phone
TARA MCLAREN	(618) 346-3203
Department Rep 2	**Phone**
Utility Contact Person/E-mail	**Phone**
Seth Elliott, swelliott@heneghanassoc.com	(618) 498-6418

Work to be done by:

Contractor

TBD

Daytime Phone	Emergency Phone

Traffic control operation:

Number of lane closures	Time of closures
N/A	

Other Applicable Requirements

Bore and Jack approximately 60 lineal feet of 42" steel casing across highway 16 for 30" diameter ductile iron water main.

Most of this project is on easement. There is some on ROW near Fieldon and the crossing west of Otterville Road at 39.116462 -90.396884

IMPORTANT UTILITY PERMIT INFORMATION

❖ **A COPY OF THE PERMIT MUST BE ON SITE WITH THE CONTRACTOR.**

❖ **POTHOLING UTILITIES.** Potholes can be a maximum diameter of 12 inches. Backfill with CLSM (flowable fill) to the bottom of the pavement and then fill with concrete. If you make a square hole, you must make a full lane width concrete patch.

❖ **STEEL PLATES.** If you need to use a steel plate to cover a hole until the repair can be made, 1) CALL FIRST. Do not assume this is permitted. 2) DON'T TRY IT WHEN THE SNOWPLOWS MIGHT BE RUNNING. 3) The steel plate must ALWAYS BE BOLTED to the pavement.

❖ **SIDEWALKS.** Do not put handholes in sidewalks without written permission from the municipality. NEVER disturb an ADA ramp or the sidewalk panels adjacent to it.

❖ **LANE CLOSURES.** If at any time vehicles or equipment will be closer than 24 inches to the white lane line on the highway for more than 15 minutes, a full lane closure with flaggers is required. Some lane closures require that a 21-day notice be given to Springfield. If you need a lane closure, please contact the permit technician AT LEAST 25 working days in advance for forms OPER 2410 and BSPE 725.
The forms can also be found at http://idot.illinois.gov/doing-business/permits/utility-permits/index

❖ **TRAFFIC CONTROL.** Proper traffic control devices must be placed prior to beginning work. Suggested Highway Standards are attached to aid you in selecting the correct application of Traffic Control to meet the conditions of your construction, but this does not relieve you of your responsibility of having the correct Traffic Control Devices if the above Standards do not fit your situation. If you have any questions concerning Traffic Control, please contact IDOT's Traffic Control Technician, Phone No. 618-346-3287, or the Department Representative.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS

IMPORTANT UTILITY PERMIT INFORMATION

❖ **3 WEEKDAYS NOTICE REQUIRED.** **Please notify us when you will start permitted work by emailing DOT.D8UtilityPermits@illinois.gov . Please include the District Permit Number in the subject line and contact information in the body of the email.**

No broken pavement, open holes, trenches, barricades, cones, or drums will remain on or adjacent to the traveled way and all lanes shall be opened to traffic during any legal holiday period, unless the contractor is working behind concrete barricades. The legal holidays will include:

New Year's Day
Easter
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
Christmas Day

The length of the holiday period shall vary as follows, depending on the day of the week the legal holiday falls on or is observed.

Day of Holiday	Length of Holiday Period
Sunday	3 p.m. Friday – 11:59 p.m. Monday
Monday	3 p.m. Friday – 11:59 p.m. Monday
Tuesday	3 p.m. Friday – 11:59 p.m. Tuesday
Wednesday	3 p.m. Tuesday – 11:59 p.m. Wednesday
Thursday	3 p.m. Wednesday – 11:59 p.m. Sunday
Friday	3 p.m. Thursday – 11:59 p.m. Sunday
Saturday	3 p.m. Thursday – 11:59 p.m. Sunday

On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS

IMPORTANT UTILITY PERMIT INFORMATION

❖ **NOTICE OF COMPLETION REQUIRED.** When the work is completed and the right-of-way is restored, please email a notice of completion to DOT.D8UtilityPermits@illinois.gov . Please include the District Permit Number in the subject line of the email.

❖ **CHANGES IN THE FIELD.** If anything is to be installed differently than what is shown on the permit application, approval MUST be obtained from the Department PRIOR to installation and As Built Plans MUST be submitted to the District Office upon completion of work.

❖ **TREE TRIMMING/REMOVAL.** All tree trimming and/or removal operations must be approved by the Bureau of Operations and the adjacent property owners. An approved Vegetation Clearing Permit or a Tree Removal permit must be obtained at least ***30 DAYS*** in advance of any proposed tree impacts. All trees to be removed must be mitigated and replaced on public right-of-way at a 3:1 ratio in accordance with Department policies. The Bureau of Operations will review and coordinate these permits. You may contact the Bureau of Operations at 618-346-3280 to initiate this process. No trees shall be trimmed or removed in advance of the required review and approved permit.

❖ **IDOT OPERATIONS HIGHWAY ACCESS PERMITS**

Issuance of a Utility Permit does not allow for the installation of any type of construction entrance within the State right-of-way. The Bureau of Operations shall be contacted at 618-346-3280 to obtain the required Access Permit for this type of work.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS

IMPORTANT UTILITY PERMIT INFORMATION

❖ IDOT OPERATIONS UNDERGROUND ELECTRICAL FACILITIES.

The Department may have Underground Electrical Facilities located within the limits of this Utility Permit. The Department is not a member of JULIE and does not locate its own facilities (such as underground conduit or cable for traffic signals or highway lighting). The contractor, at his or her own expense, must obtain the services of a qualified electrical contractor to locate such state-owned facilities. Any facilities damaged or relocated under this permit will be the responsibility of the Permittee. Three of the region's electrical contractors are: Wissehr Electric (618) 398-7575; Electrico (618) 538-9500; JF Electric (618) 797-5353

If there is a State contract under construction in the permitted area, it is understood that the work covered by this Permit shall in no way interfere with the State's Contractor and any claims that the State's Contractor may have due the work proposed in this permit, shall be accepted as the sole responsibility of the permittee.

The applicant will be responsible for determining location of and protecting all State-owned facilities including buried facilities (such as Culverts, Storm Sewer Drainage, Traffic Signal Conduits, Lighting Conduits) and will be responsible for the cost of repair or replacement of any such facilities damaged as a result of the work covered herein.

Clean-up of the State's right-of-way shall immediately follow construction operations as the job progresses and shall not be left until all construction is completed. **The applicant has 30 days to restore the right-of-way after construction operations have ceased in any one location.** Right-of-way restoration may include grading, seeding or sodding, or any other items required to restore the right-of-way to a condition which is at least as good as it was before the permitted work took place. Maintenance of trenches, filling of settlement, removing eroded dirt from highway ditches and drainage structures shall be a continuous operation.

Immediately following the described work, all excavation within the limits of the highway right-of-way shall be completely backfilled. The backfill shall be placed in layers of not more than 6" and each layer is to be firmly tamped into place.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS

IMPORTANT UTILITY PERMIT INFORMATION

The backfill material for trenches where the inner edge of the trench is within 2 ft of the proposed edge of pavement, curb, curb and gutter, stabilized shoulder, or sidewalk shall be CA 6 or CA 10. The material shall be deposited in uniform lifts not exceeding 8 inches in depth, loose measurement, and each lift shall be compacted to a minimum 85 percent of standard lab density by mechanical means.

The work area must be left in a safe and presentable condition at the end of each workday.

The underground utility installation under an **ACCESS CONTROLLED HIGHWAY** shall be installed by means of boring at a depth of 4' below the elevation of the surface of roadway pavement and/or design flow lines of ditches. **The minimum length of bore shall extend from out to out of the highway access control** or as otherwise specified by IDOT's utility Permit Technician. ACCESS CONTROLLED highways included every interstate and the interchanges. Typically there will be fencing along both sides of the highway.

The underground utility installation under conventional highways shall be installed at a minimum depth of 4' below the elevation of the surface of roadway pavement and/or flow lines of ditches. The length of bore shall extend a minimum distance of 10' beyond the outer edges of the highway pavement or as otherwise specified by IDOT's Utility Permit Technician.

The underground utility installation along State highways shall maintain a minimum depth of 36". LONGITUDINAL UTILITIES SHALL BE LOCATED AS NEAR THE RIGHT-OF-WAY LINE AS PRACTICABLE and not more than eight feet from and parallel to the right-of-way line. **GROUND-MOUNTED APPURTENANCES SHALL BE LOCATED WITHIN ONE FOOT OF THE RIGHT-OF-WAY LINE OR AS NEAR AS PRACTICABLE.**

All exposed facilities, such as pedestals, manholes, end sections, monitoring wells, valves and/or meters, within State right-of-way should be clearly marked to avoid conflicts with the State's Maintenance work.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS

IMPORTANT UTILITY PERMIT INFORMATION

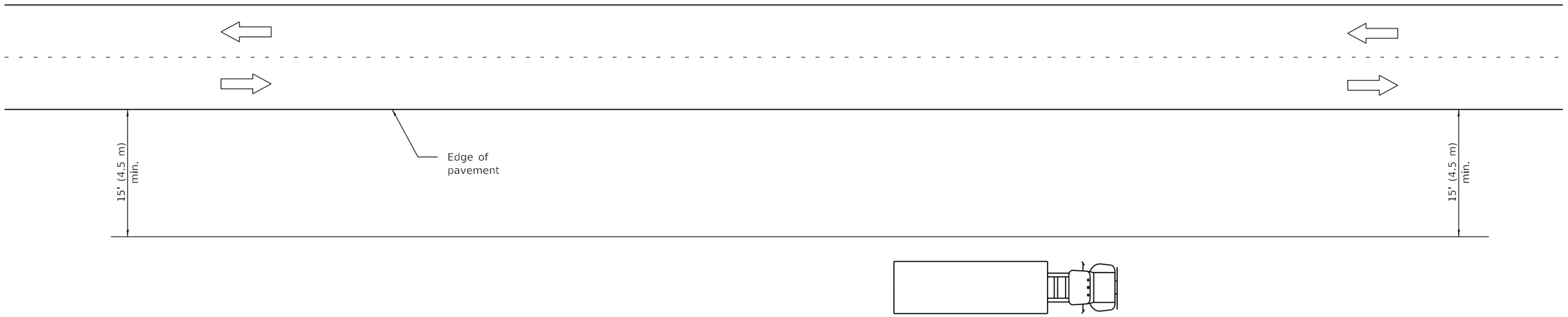
UTILITY POLES SHALL BE LOCATED AS NEAR THE RIGHT-OF-WAY LINE AS PRACTICABLE AND NOT MORE THAN FIVE FEET FROM AND PARALLEL TO THE RIGHT-OF-WAY LINE.

Plastic pipe must have an electrically conducting wire or other means of locating the pipe while it is underground. Tracer wire may not be wrapped around the pipe and contact with the pipe must be minimized but is not prohibited. Tracer wire or other metallic elements installed for pipe locating purposes must be resistant to corrosion damage, either by use of coated copper wire or by other means.

This permit is issued only with the express understanding that the permittee has obtained any required authority for the said installation from the Environmental Protection Agency in accordance with the Environmental Protection Act.

The issuance of this utility permit by the Department does not excuse the permittee from obtaining the necessary approvals from the Corps of Engineers, Division of Waterway, Department of Public Health, IDNR, and any other property owner, municipality, or agency that may be involved or have concerns with this procedure.

FAILURE TO COMPLY MAY RESULT IN SUSPENSION OF PRESENT WORK OR FUTURE UTILITY PERMITS



TYPICAL APPLICATIONS

Landscaping work

Utility work

Fencing contracts and maintenance

Cleaning culverts

GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF OPERATIONS

APPROVED January 1, 2009

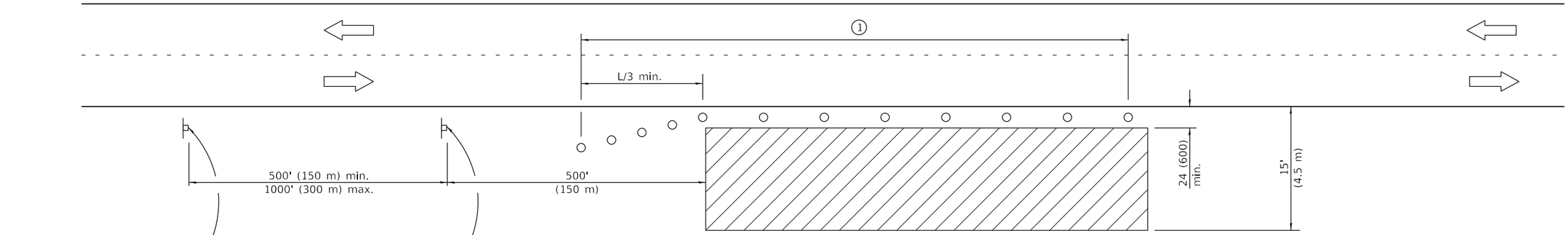
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to
	English (metric).
1-1-05	Revised title and notes.

OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY

STANDARD 701001-02



For contract construction projects



W20-I103(0)-48



W21-1(0)-48

For maintenance and utility projects



W20-1(0)-48

TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

SYMBOLS

Work area

Sign

Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	FORMULAS (Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1. 2014
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1. 2014
ENGINEER OF DESIGN AND ENVIRONMENT

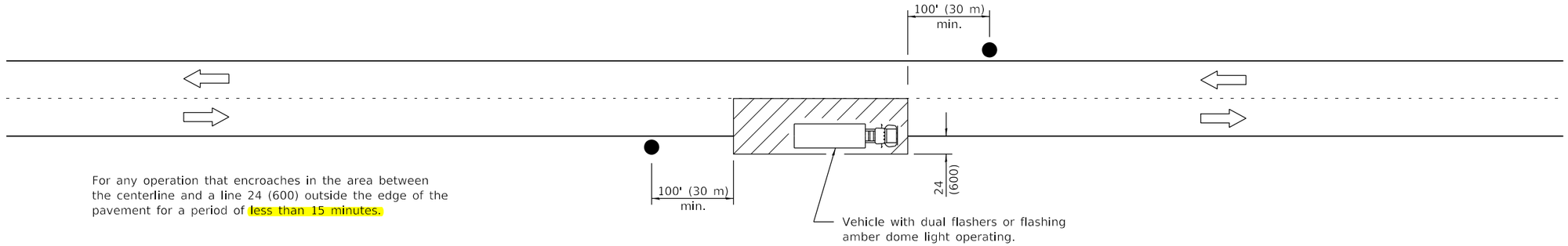
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

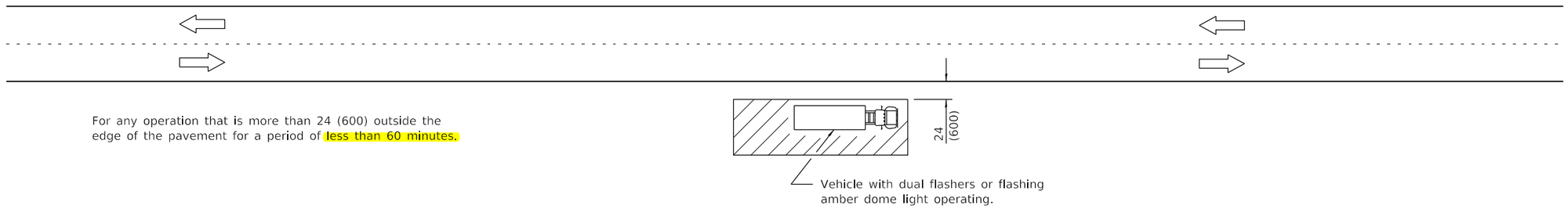
OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05

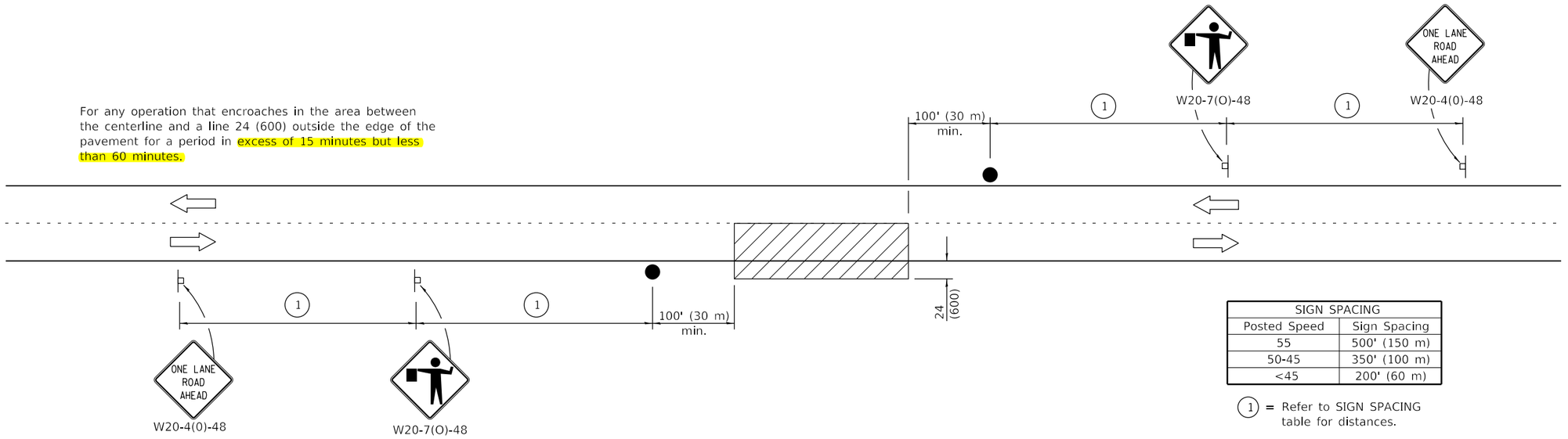
For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.



For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

(1) = Refer to SIGN SPACING table for distances.

TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

Work area

Sign on portable or permanent support

Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04

Illinois Department of Transportation

Memorandum

To: District Bureau of Operations - Craig Poettker

From: Project Support - Tara McLaren

Subject: INVESTIGATION OF UTILITY PERMIT APPLICATION

Date: 8/8/2024

PERMIT NO.: **8- 34683**

APPLICANT: **Illinois Alluvial Regional Water Company**

ROUTE: **FAP 325**

MARKED ROUTE: **IL 16**

SECTION: **1, 2&2A**

LOCATION **Fieldon - 1350' W of Warren St, Jerseyville - 2150' W of Otterville Road**

COUNTY: **Jersey**

NATURE OF WORK: **trench 30" DI water main, xing by HDD with 42" steel casing approx 2150' W of Otterville Road**

Please investigate the attached utility permit application; and, return with any recommendations.

Note below any special requirements you consider necessary in the permit. If application cannot be investigated within two weeks, please advise.

REMARKS:

Attachments

McLaren, Tara A

From: Davis, Kenneth R
Sent: Thursday, August 8, 2024 2:40 PM
To: McLaren, Tara A
Subject: RE: 34683 Investigation of Utility Permit

The department does not have any underground electrical utilities at this location.

Ken Davis
Electrical Services Supervisor D-8
Office: (618)346-3274
Cell: (618)363-3347
Illinois Department of Transportation

From: McLaren, Tara A <Tara.McLaren@illinois.gov>
Sent: Thursday, August 8, 2024 1:17 PM
To: Davis, Kenneth R <Kenneth.Davis@illinois.gov>; Poettker, Craig S <Craig.Poettker@illinois.gov>; Milton, Michael I. <Michael.Milton@Illinois.gov>; Varble, Nathan J <Nathan.Varble@illinois.gov>
Cc: Stumpf, RuAnna M <RuAnna.Stumpf@illinois.gov>
Subject: 34683 Investigation of Utility Permit

Please investigate the attached utility permit application. Most of this is on easement. There is a small part in ROW near Fieldon and a xing west of Otterville Road. look for big red ovals on the plan sheets. Return with any recommendations.

PERMIT NO.: **8- 34683**

APPLICANT: **Illinois Alluvial Regional Water Company**

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Thank you.

Tara McLaren
Utility Permits and Agreements
(618)346-3203
tara.mclaren@illinois.gov

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McLaren, Tara A

From: Milton, Michael I.
Sent: Thursday, August 8, 2024 1:41 PM
To: McLaren, Tara A; Davis, Kenneth R; Poettker, Craig S; Varble, Nathan J
Cc: Stumpf, RuAnna M
Subject: RE: 34683 Investigation of Utility Permit IL 16 Fieldon
Attachments: 34683 dox.pdf; 34683 permit.pdf

There are no current access permit conflicts at this location.

Thanks,

Mike Milton
Operations Permit Technician
Permits Unit/ District 8/ Operations
1102 Eastport Plaza Drive
Collinsville, IL 62234
618-346-3281
Michael.Milton@illinois.gov

From: McLaren, Tara A <Tara.McLaren@illinois.gov>
Sent: Thursday, August 8, 2024 1:17 PM
To: Davis, Kenneth R <Kenneth.Davis@illinois.gov>; Poettker, Craig S <Craig.Poettker@illinois.gov>; Milton, Michael I. <Michael.Milton@Illinois.gov>; Varble, Nathan J <Nathan.Varble@illinois.gov>
Cc: Stumpf, RuAnna M <RuAnna.Stumpf@illinois.gov>
Subject: 34683 Investigation of Utility Permit

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APPLICANT: **Illinois Alluvial Regional Water Company**

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SECTION: **1, 2&2A**

LOCATION **Fieldon - 1350' W of Warren St, Jerseyville - 2150' W of Otterville Road**

COUNTY: **Jersey**

NATURE OF WORK: **trench 30" DI water main, xing by HDD with 42" steel casing approx 2150' W of Otterville Road**

Thank you.

Tara McLaren
Utility Permits and Agreements
(618)346-3203
tara.mclaren@illinois.gov

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McLaren, Tara A

From: Varble, Nathan J
Sent: Monday, August 12, 2024 8:07 AM
To: McLaren, Tara A
Cc: Poettker, Craig S
Subject: RE: 34683 Investigation of Utility Permit

Please advise the utility the following:

- Utilize proper traffic control at all times.
- Proper drainage through the area must be maintained at all times.
- Upon completion of work any disturbed areas are to be regraded, seeded and strawed. Ensure the ditches will drain properly
- Any pavement or gutter/curb and gutter must be repaired with the approval of IDOT
- IDOT approval is required before making any changes to the approved plan
- No utilities should be located between the edge of pavement and the flow line of the ditch except when crossing the roadway.

Nate Varble
Operations Supervisor
Jerseyville Yard 618-498-2723
Carrollton Yard 217-942-5112
Brussels Ferry 618-786-3636
Kampsville Ferry 618-653-4518
Joe Page Bridge 618-576-2316

From: Poettker, Craig S <Craig.Poettker@illinois.gov>
Sent: Friday, August 9, 2024 9:55 AM
To: Varble, Nathan J <Nathan.Varble@illinois.gov>
Cc: McLaren, Tara A <Tara.McLaren@illinois.gov>
Subject: FW: 34683 Investigation of Utility Permit

Please review and respond to T. McLaren with any comments/concerns and cc me.

Thank you

Craig Poettker
(618)346-3279

From: McLaren, Tara A <Tara.McLaren@illinois.gov>
Sent: Thursday, August 8, 2024 1:17 PM
To: Davis, Kenneth R <Kenneth.Davis@illinois.gov>; Poettker, Craig S <Craig.Poettker@illinois.gov>; Milton, Michael I. <Michael.Milton@Illinois.gov>; Varble, Nathan J <Nathan.Varble@illinois.gov>
Cc: Stumpf, RuAnna M <RuAnna.Stumpf@illinois.gov>
Subject: 34683 Investigation of Utility Permit

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PERMIT NO.: **8- 34683**

APPLICANT: **Illinois Alluvial Regional Water Company**

ROUTE: **FAP 325**

MARKED ROUTE: **IL 16**

SECTION: **1, 2&2A**

LOCATION **Fieldon - 1350' W of Warren St, Jerseyville - 2150' W of Otterville Road**

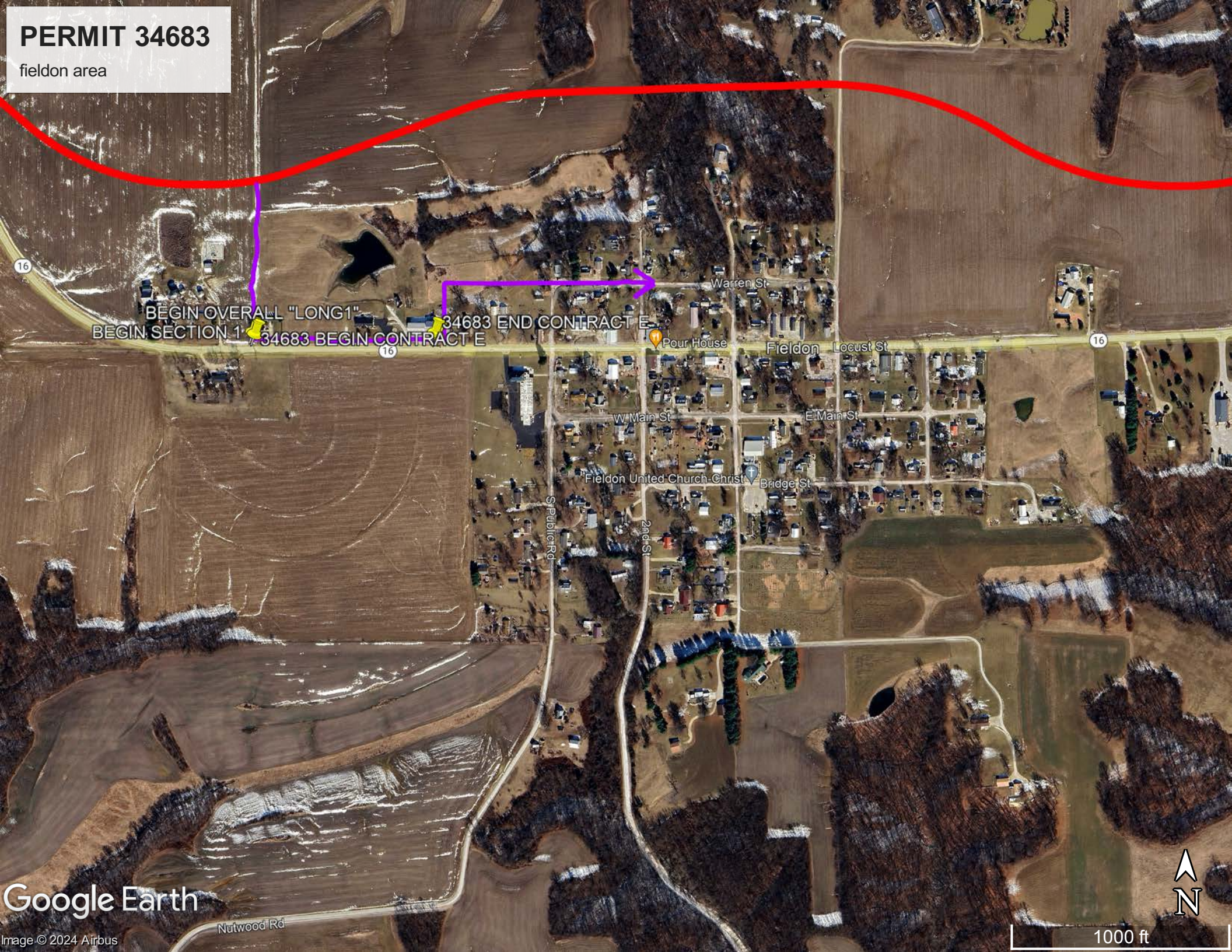
COUNTY: **Jersey**

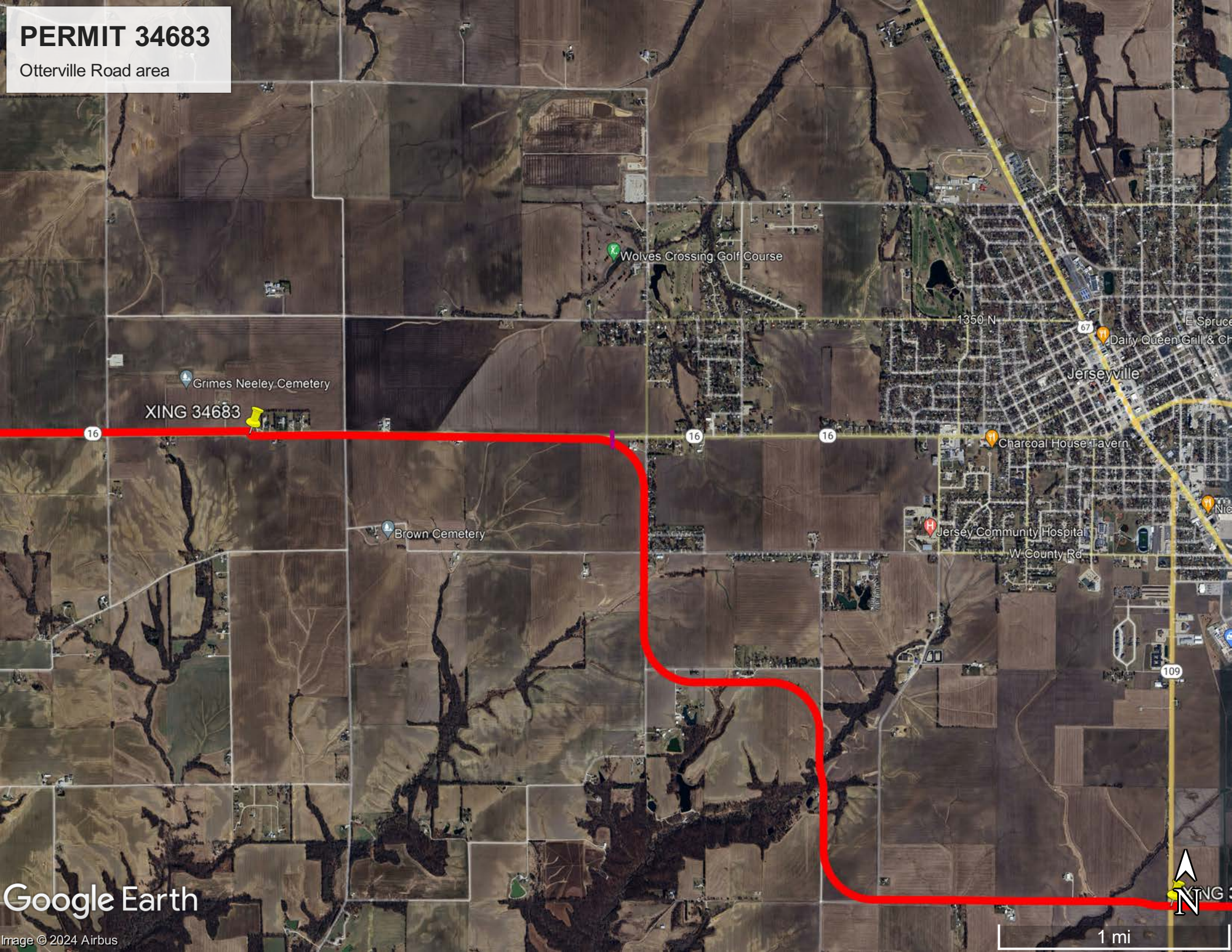
NATURE OF WORK: **trench 30" DI water main, xing by HDD with 42" steel casing approx 2150' W of Otterville Road**

Thank you.

Tara McLaren
Utility Permits and Agreements
(618)346-3203
tara.mclaren@illinois.gov

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PERMIT 34683
fieldon area
BEGIN OVERALL "LONG1"
BEGIN SECTION 1
34683 BEGIN CONTRACT E
34683 END CONTRACT E
Warren St
Pour House
Fieldon
Locust St
W Main St
E Main St
Fieldon United Church-Christ
Bridge St
S Public Rd
2nd St
Nutwood Rd
16
Google Earth
Image © 2024 Airbus
N
1000 ft

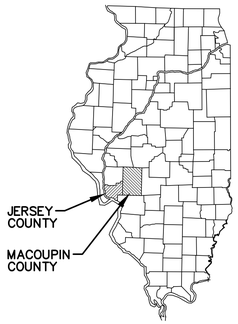

PERMIT 34683
Otterville Road area
Wolves Crossing Golf Course
1350 N
Dairy Queen Grill & Ch
Jerseyville
Grimes Neeley Cemetery
XING 34683
16
16
16
Charcoal House Tavern
Brown Cemetery
Jersey Community Hospital
W County Rd
109
Google Earth
Image © 2024 Airbus
N
1 mi

CONSTRUCTION PLANS FOR

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN

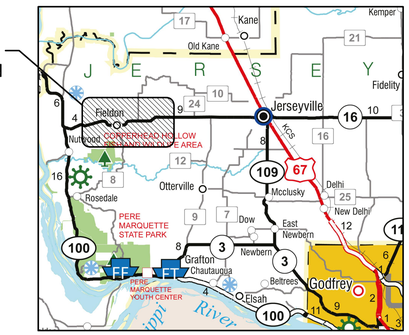
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS
2024

SET NO. _____

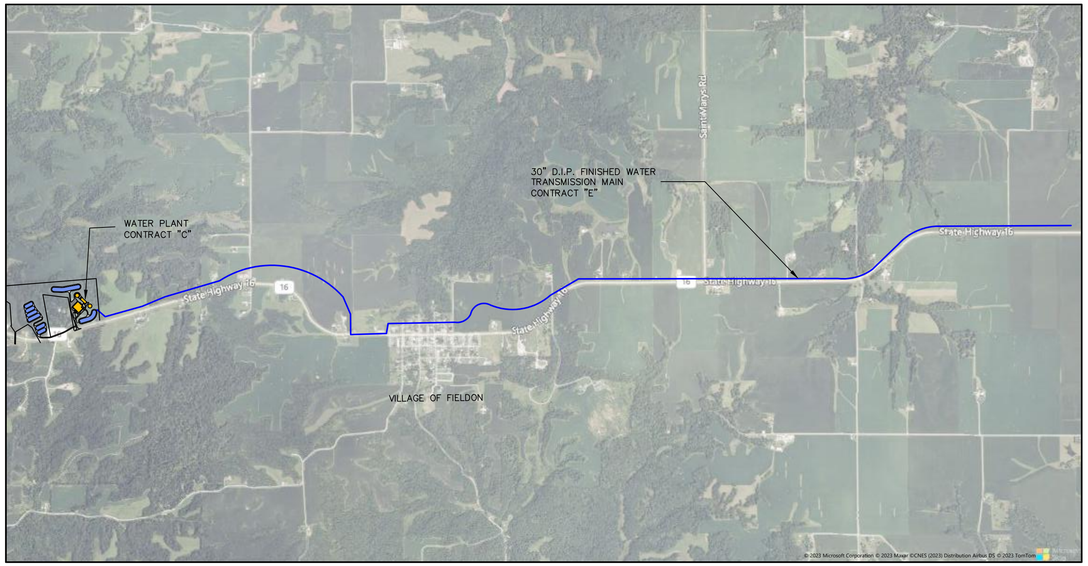


STATE OF ILLINOIS

PROJECT LOCATION



VICINITY MAP



PROJECT LOCATION PLAN

PROJECT CONTACT INFORMATION

SETH ELLIOTT
OFFICE PHONE: (618) 498-6418
EMAIL: swelliott@heneghanassoc.com

UTILITY PROVIDER INFORMATION

JERSEY COUNTY RURAL WATER COMPANY
MJM ELECTRIC CO-OPERATIVE

IARWC BOARD MEMBERS

JERSEY COUNTY RURAL WATER:	ALLEN DAVENPORT
BUNKER HILL:	JOHN CHAPMAN
DORCHESTER:	SUE CAMPBELL
CARLINVILLE:	DAN HELD
FIELDON:	GENE ISRINGHAUSEN
CENTRAL MACOUPIN COUNTY RURAL WATER DISTRICT:	RICH McCLAIN
FOSTERBURG WATER DISTRICT:	STEVE RUPPERT

PLANS ACCEPTED BY:

BOARD PRESIDENT: ALLEN DAVENPORT

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER EXISTING UNDER THE LAWS OF THE STATE OF ILLINOIS.

SETH W. ELLIOTT, P.E. #62788

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
COVER SHEET / LOCATION MAP

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	N/A
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	G1

1 OF 26 SHEETS

PATH=s: \shared-pim\projects\71000-400\cad\contract e dwgs\cover sheet.dwg
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SURVEY ABBREVIATIONS

P.I.	POINT OF INTERSECTION
P.O.T.	POINT ON TANGENT
T.P.	TURNING POINT
I.P.	IRON PIPE
B.M.	BENCH MARK
T.B.M.	TEMPORARY BENCH MARK
ELEV.	ELEVATION
INV. ELEV.	INVERT ELEVATION
FL	FLOW LINE
M.D.	MEASURE DOWN
P.T.	POINT OF TANGENT
P.C.	POINT OF CURVE
V.C.	VERTICAL CURVE
M.O.	MID ORDINATE
STA.	STATION
X-ING	CROSSING
LT. AH.	LEFT AHEAD
LT.	LEFT
RT. AH.	RIGHT AHEAD
RT.	RIGHT
C.M.P.	CORRUGATED METAL PIPE
V.C.P.	VITRIFIED CLAY PIPE
R.C.P.	REINFORCED CONCRETE PIPE
C.I.P.	CAST IRON PIPE
D.I.	DUCTILE IRON PIPE
M.J.	MECHANICAL JOINT
D	DEGREE OF CURVE
T	TANGENT
L	LENGTH
R	RADIUS
E	EXTERNAL
S.J.	SUPER ELEVATION

BENCH MARK INFORMATION

BM#1 – CHISELED "+" ON TOP OF CONCRETE SLAB OF OLD WELL, 40'± SOUTH FROM THE SW CORNER OF THE OLD BARN ALONG THE WEST SIDE STATE RTE. 100
(SURVEY PT. #2023)
ELEVATION – 437.48

N – 887176.7316
E – 2184709.965

BM#2 – 5/8" REBAR (SET) NEAR THE SE PROPERTY CORNER OF WILLIAM PHILIPP PROPERTY
(SURVEY PT. #6067)
ELEVATION – 690.85

N – 889556.8029
E – 2192697.452

LEGEND

X X	EXISTING FENCE LINE
	EXISTING ASPHALT OR OIL/CHIP
	EXISTING GRAVEL
	EXISTING CONCRETE
	EXISTING FLOWLINE
G	EXISTING GAS
S	EXISTING SEWER
OE	EXISTING OVERHEAD ELECTRIC
UT	EXISTING UNDERGROUND TELEPHONE
FO	EXISTING UNDERGROUND FIBRE-OPTIC
W	EXISTING WATERLINE
W SVC W SVC	EXISTING WATER SERVICE LINE
	EXISTING WATER GATE VALVE
	EXISTING WATER SERVICE METER
	EXISTING FLUSH HYDRANT
	TELEPHONE PEDESTAL
	POWER POLE
	GUY WIRE
PL	PROPERTY LINE
R/W	RIGHT-OF-WAY LINE
	RIGHT-OF-WAY MARKER
	TEST HOLE LOCATION
	IRON PIN (FOUND)
	STONE
	FENCE CORNER POST
0+00 2+50 5+00 7+50 10+00	SURVEY LINE
	GUARD RAIL
TOP TOE	LEVEE, EARTH DAM, SLOPE
	BUILDING
	TREE
	TREE LINE
	PERMANENT UTILITY EASEMENT
	PROPOSED RAW WATERLINE
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED 45° BEND
	PROPOSED 22.5° BEND
	PROPOSED GATE VALVE
	PROPOSED REDUCER
	PROPOSED FLUSH HYDRANT
FDGB	FULL DEPTH GRANULAR BACKFILL

GENERAL NOTES

1. HIGHWAY/STREET RIGHT OF WAY AND PROPERTY LINES HAVE BEEN PLOTTED FROM IRON PINS FOUND AND TAX MAP INFORMATION. THEIR LOCATIONS SHOULD BE CONSIDERED APPROX. AND ARE NOT INTENDED TO BE USED AS SURVEYED LINES.
2. THE ENGINEER/SURVEYOR HAS SET SURVEY CONTROL POINTS WITH COORDINATES FOR CONSTRUCTION CONTROL. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LEAVE THESE MARKERS UNDISTURBED.
3. ALL ROCK EXCAVATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND THERE SHALL BE NO DIRECT PAYMENT FOR THIS WORK.
4. ANY AND ALL EASEMENT RESTRICTIONS SHOWN ON PLANS TO BE CLOSELY FOLLOWED.
5. ANY AND ALL GRAVEL ROADWAYS AND DRIVES (OPEN-CUT) TO BE BACKFILLED WITH FULL DEPTH GRANULAR BACKFILL MATERIAL AND MAINTAINED THRU ENTIRE PROJECT.
6. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
7. ALL WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
8. ALL WATER MAINS SHALL BE SATISFACTORILY DISINFECTED PRIOR TO USE, AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM THE END OF THE NEW WATER MAIN AND AT LEAST ONE SET FROM EACH BRANCH. SATISFACTORY DISINFECTION SHALL BE DEMONSTRATED IN ACCORDANCE WITH THE REQUIREMENTS OF 35 ILL. ADM. CODE 652.203.

HAZARDOUS SUBSTANCE NOTES

1. SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
2. ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE GENERAL CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE DOES NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTIONS SITE.

UNDERGROUND UTILITY NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.

EXISTING STRUCTURE NOTE

DO NOT SCALE DIMENSIONS FROM DRAWINGS FOR CONSTRUCTION PROPOSES. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS.

EROSION CONTROL NOTE

APPROPRIATE EROSION AND SILTATION CONTROLS MUST BE USED AND ALL EXPOSED SOIL AND OTHER FILLS MUST BE PERMANENTLY STABILIZED AT THE EARLIEST PRACTICAL DATE. ANY TYPE OF LAND DISTURBANCE PERMIT THAT MAY BE REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES. ALL CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES AND/OR LOCAL GOVERNING AUTHORITY.

SUMMARY OF QUANTITIES

PROPOSED QUANTITIES			
ITEM #	QUANTITY	UNIT	ITEM DESCRIPTION
1	27500	LF	30" D.I. PIPE CLASS 250 WATERLINE
2	0	EA	30" FITTING FOR AIR RELEASE OR FLUSH VALVE
3	0	EA	D.I. PIPE CLASS 250 WATERLINE FOR AIR RELEASE
4	0	EA	30" - 45 DEGREE BEND WITH THRUST BLOCK
5	0	EA	30" - 22.5 DEGREE BEND WITH THRUST BLOCK
6	0	EA	30" - 11.25 DEGREE VERTICAL BEND WITH THRUST BLOCK
7	0	EA	30" D.I. CAP WITH THRUST BLOCK
8	0	EA	30" GATE VALVE WITH VALVE BOX
9	0	EA	5 1/4" FIRE HYDRANT
10	0	??	?
11	0	??	?
12	0	??	?
13	0	??	?
14	0	??	?
15	0	??	?
16	0	??	?
17	0	??	?
18	0	??	?
19	0	??	?
20	0	??	?
21	0	??	?
22	0	??	?
23	0	??	?
24	0	??	?

INDEX OF DRAWINGS

SHEET NUMBER	SHEET DESCRIPTION
G1	COVER SHEET / LOCATION MAP
G2	INDEX OF DRAWINGS / SUMMARY OF QUANTITIES / GENERAL NOTES / AND LEGENDS
G3	AERIAL PLAN SHEET INDEX MAP
G4	SAMPLE PLAN MAP
C1	WATERLINE AERIAL PLAN AND PROFILE
C2	WATERLINE AERIAL PLAN AND PROFILE
C3	WATERLINE AERIAL PLAN AND PROFILE
C4	WATERLINE AERIAL PLAN AND PROFILE
C5	WATERLINE AERIAL PLAN AND PROFILE
C6	WATERLINE AERIAL PLAN AND PROFILE
C7	WATERLINE AERIAL PLAN AND PROFILE
C8	WATERLINE AERIAL PLAN AND PROFILE
C9	WATERLINE AERIAL PLAN AND PROFILE
C10	WATERLINE AERIAL PLAN AND PROFILE
C11	WATERLINE AERIAL PLAN AND PROFILE
C12	WATERLINE AERIAL PLAN AND PROFILE
C13	WATERLINE AERIAL PLAN AND PROFILE
C14	WATERLINE AERIAL PLAN AND PROFILE
C15	WATERLINE AERIAL PLAN AND PROFILE
C16	WATERLINE AERIAL PLAN AND PROFILE
C17	WATERLINE AERIAL PLAN AND PROFILE
C18	DETAIL SHEET
C19	DETAIL SHEET
C20	DETAIL SHEET
C21	DETAIL SHEET

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EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
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ST. CHARLES, MO 63301
P: (636) 395-7055

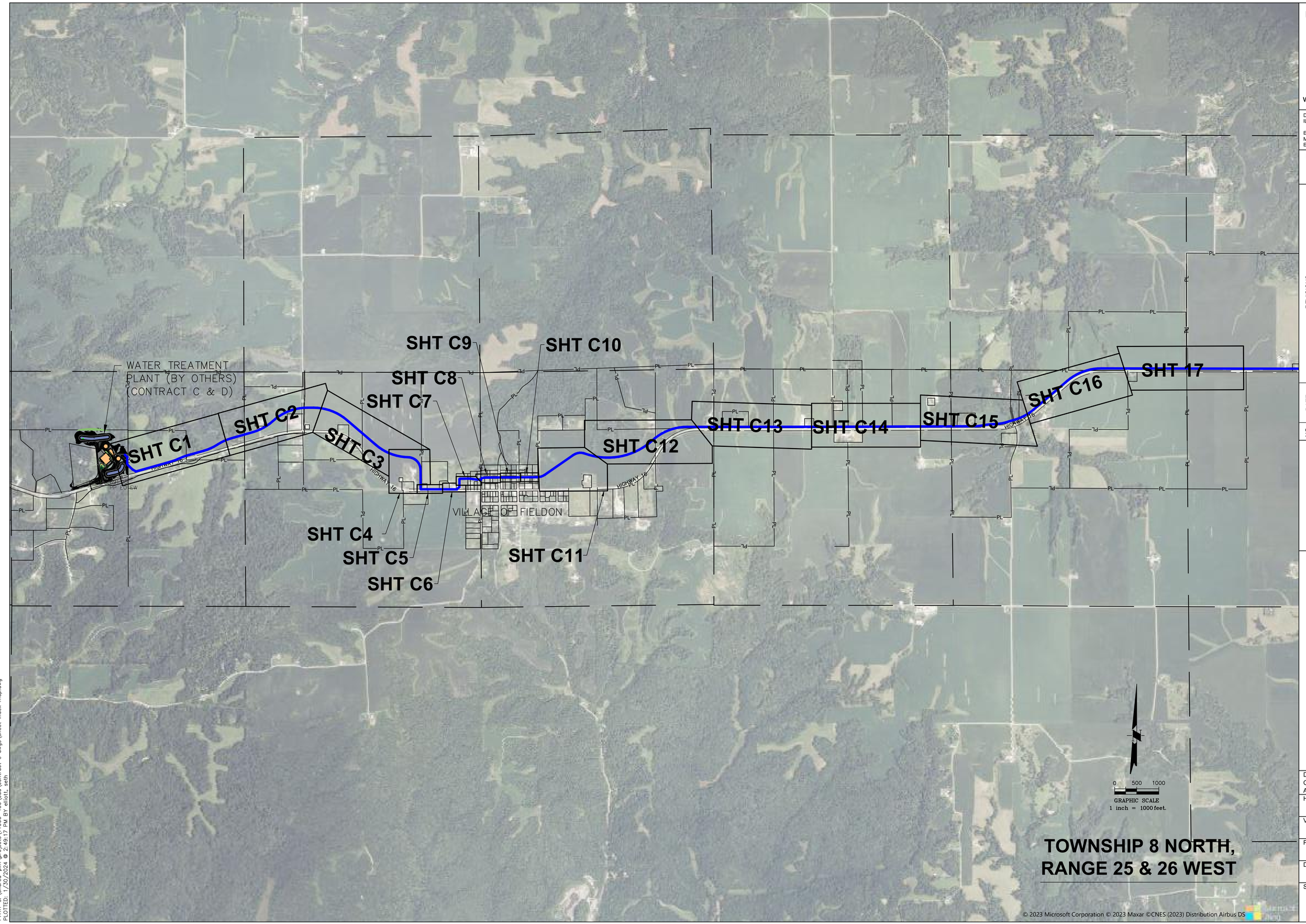
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CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN - INDEX OF DRAWINGS / SUMMARY OF QUANTITIES / GENERAL NOTES / AND LEGENDS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE:
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. G2

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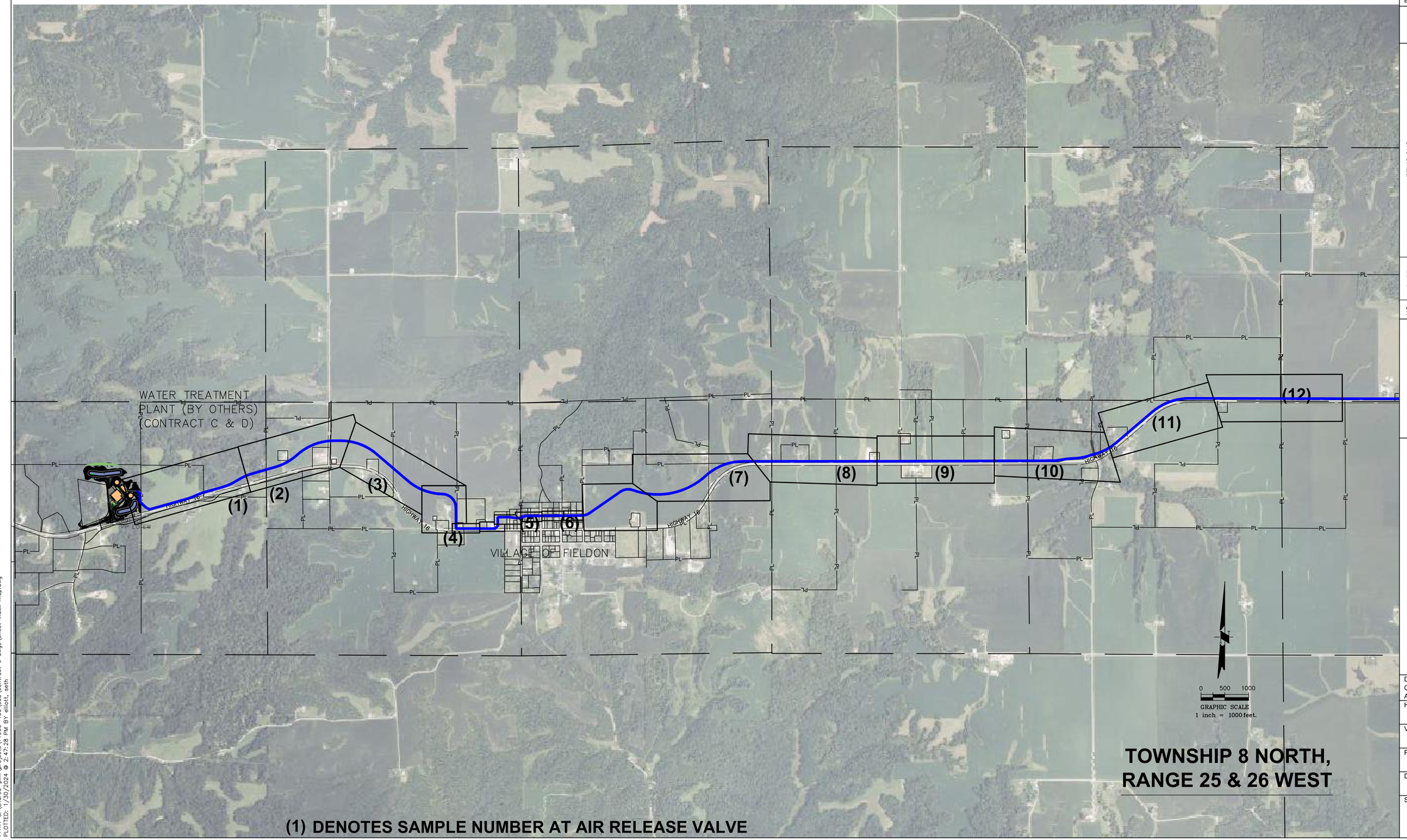
NO.	DATE

CONTRACT "E" FINISHED WATER TRANSMISSION MAIN PLAN SHEET INDEX MAP

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=1000'
VERTICAL SCALE: ———
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. G3
3 OF 27 SHEETS

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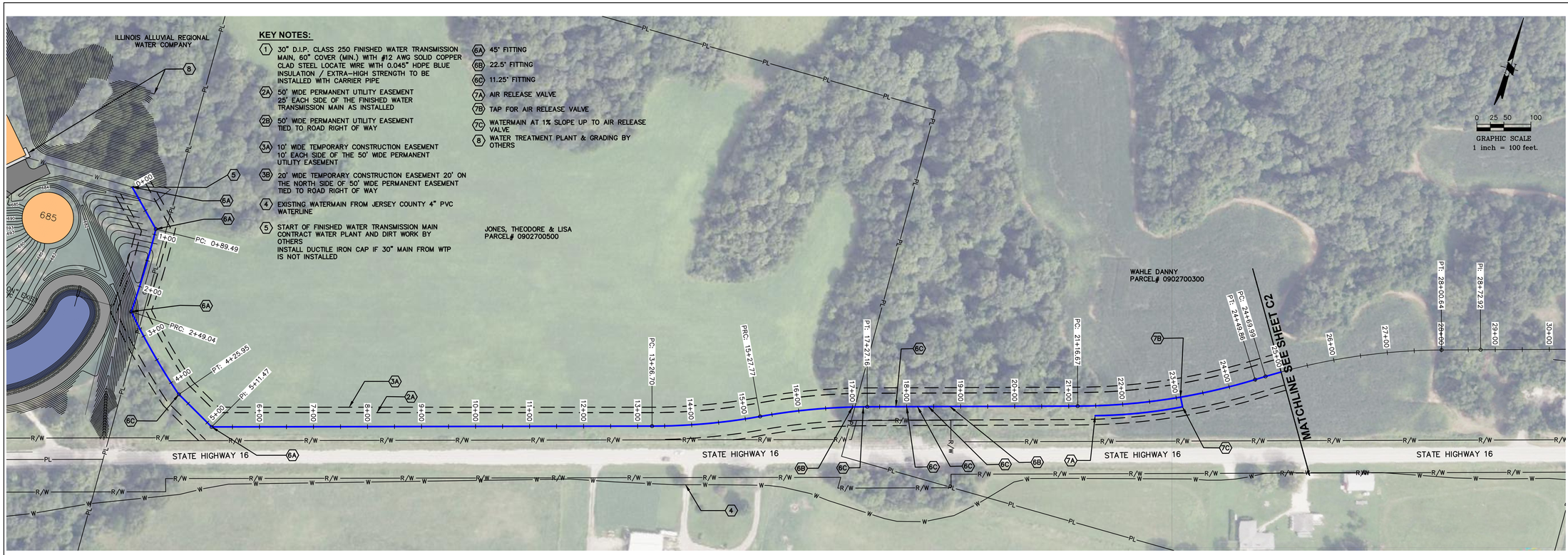
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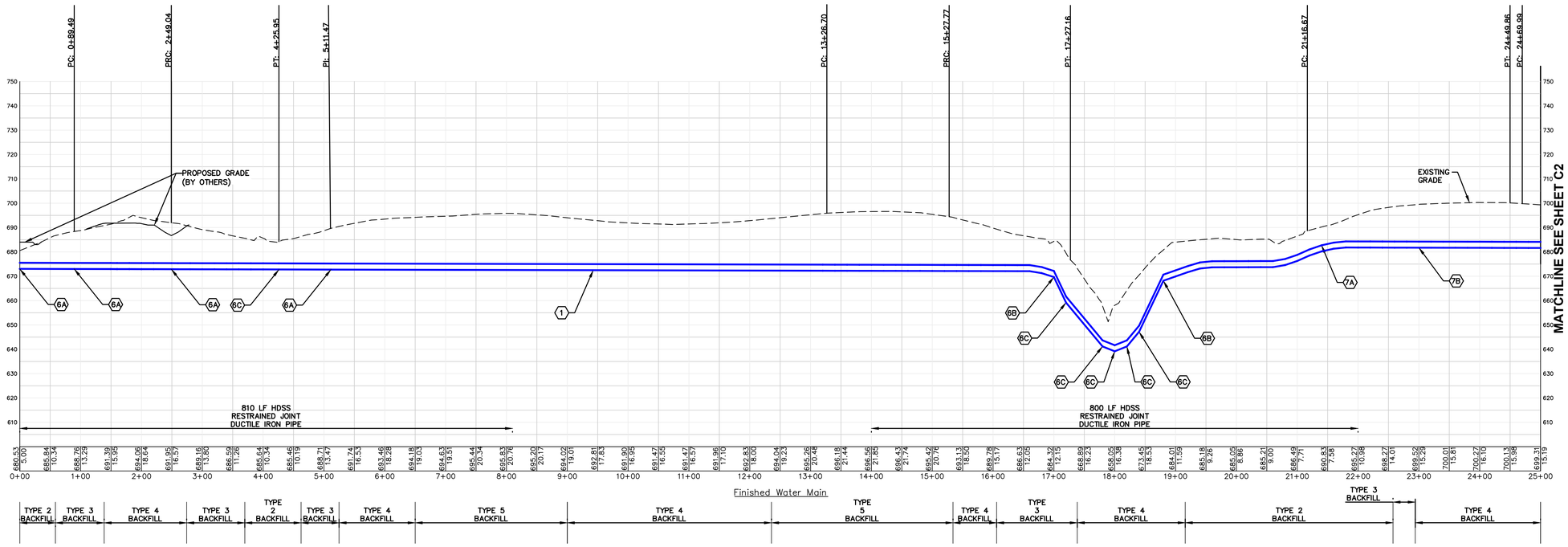
CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
SAMPLE PLAN

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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APPROVED BY: SWE
HORIZONTAL SCALE: 1"=1000'
VERTICAL SCALE: ——
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. G4
4 OF 27 SHEETS

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CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN AERIAL PLAN AND PROFILE

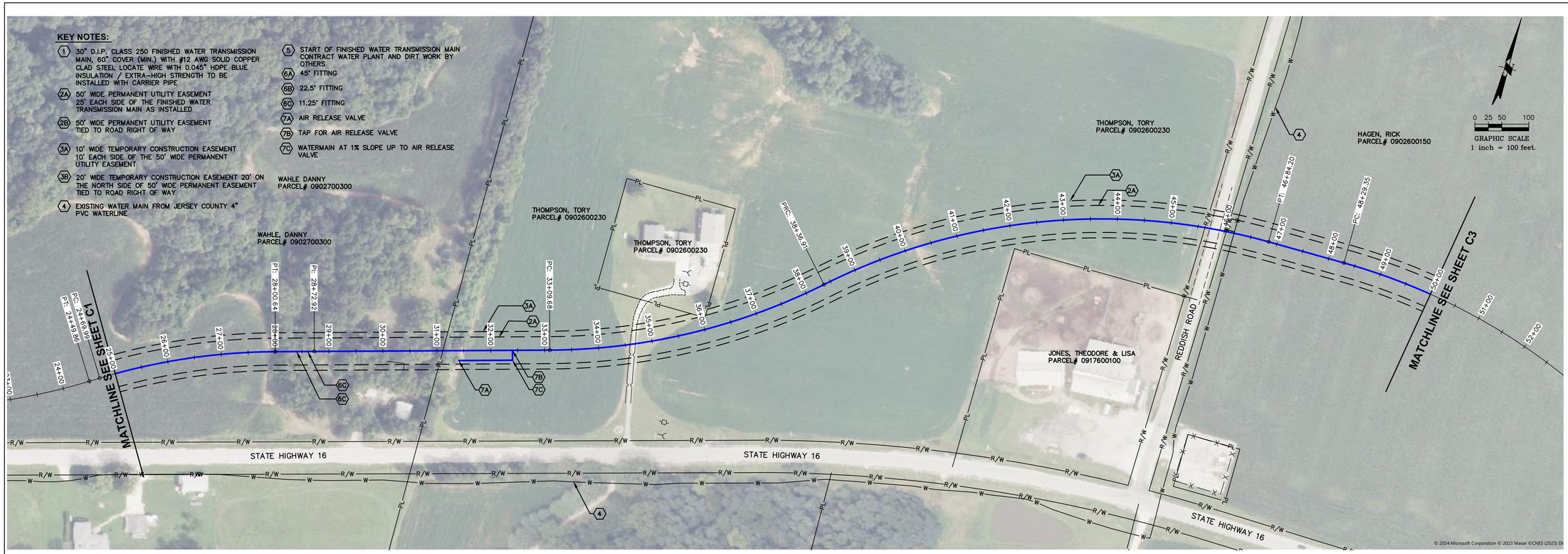
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JERSEY & MACOUPIN COUNTIES, ILLINOIS

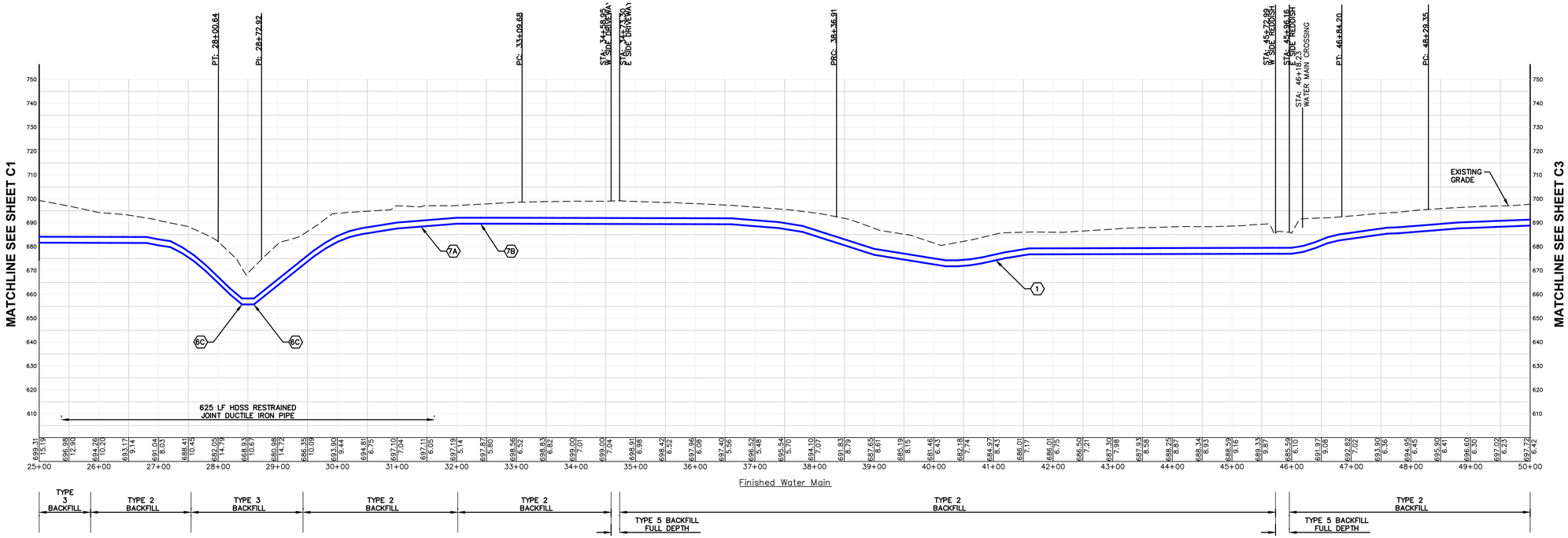
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APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
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PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C1
5 OF 27 SHEETS

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KEY NOTES:

1. 30" D.I.P. CLASS 250 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING WATER MAIN FROM JERSEY COUNTY 4" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE





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NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

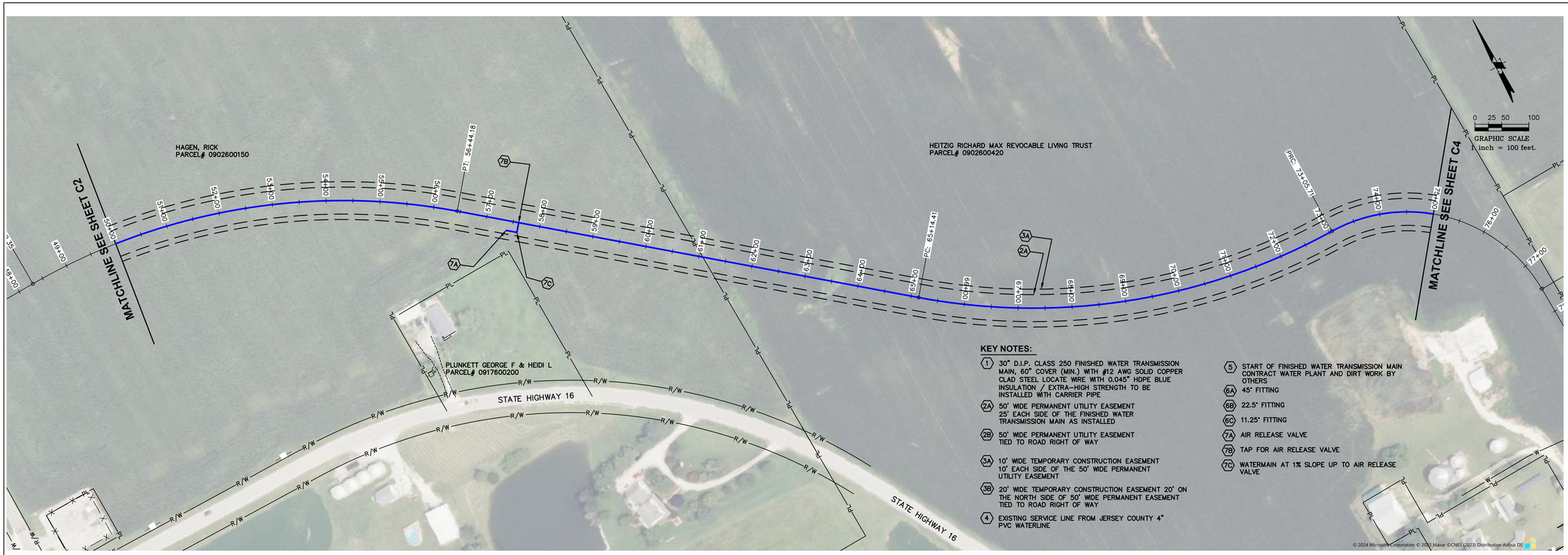
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C2

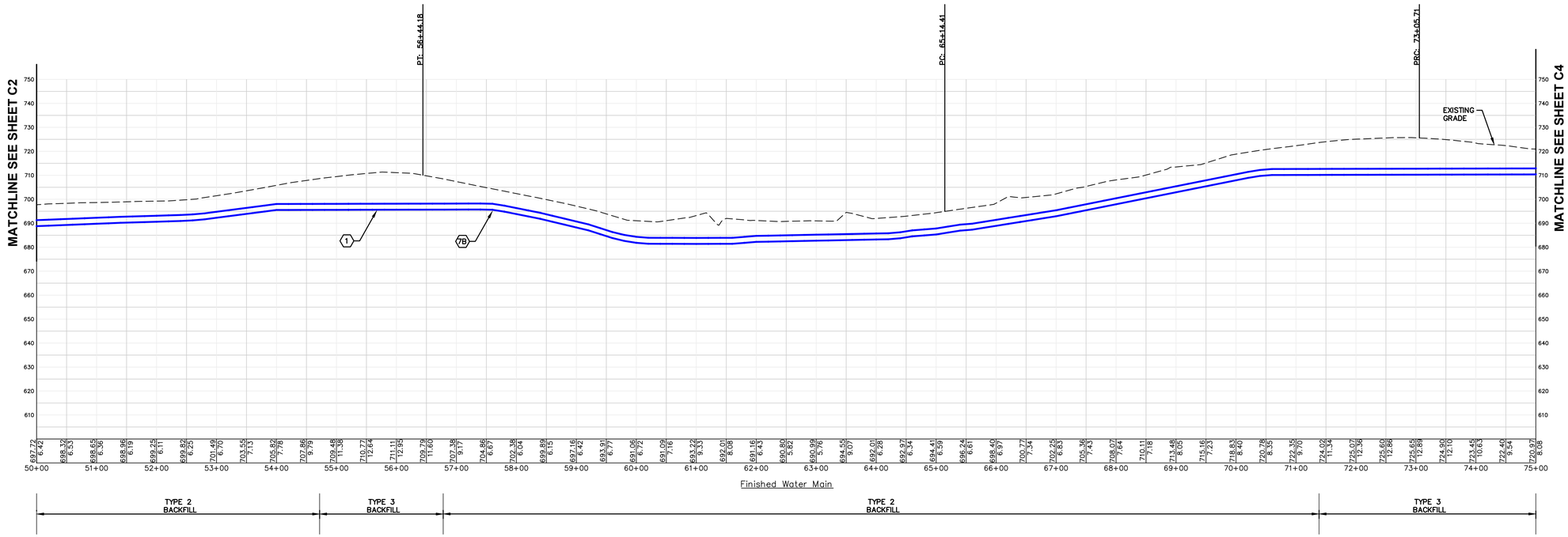
6 OF 27 SHEETS

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KEY NOTES:

1. 30" D.I.P. CLASS 250 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
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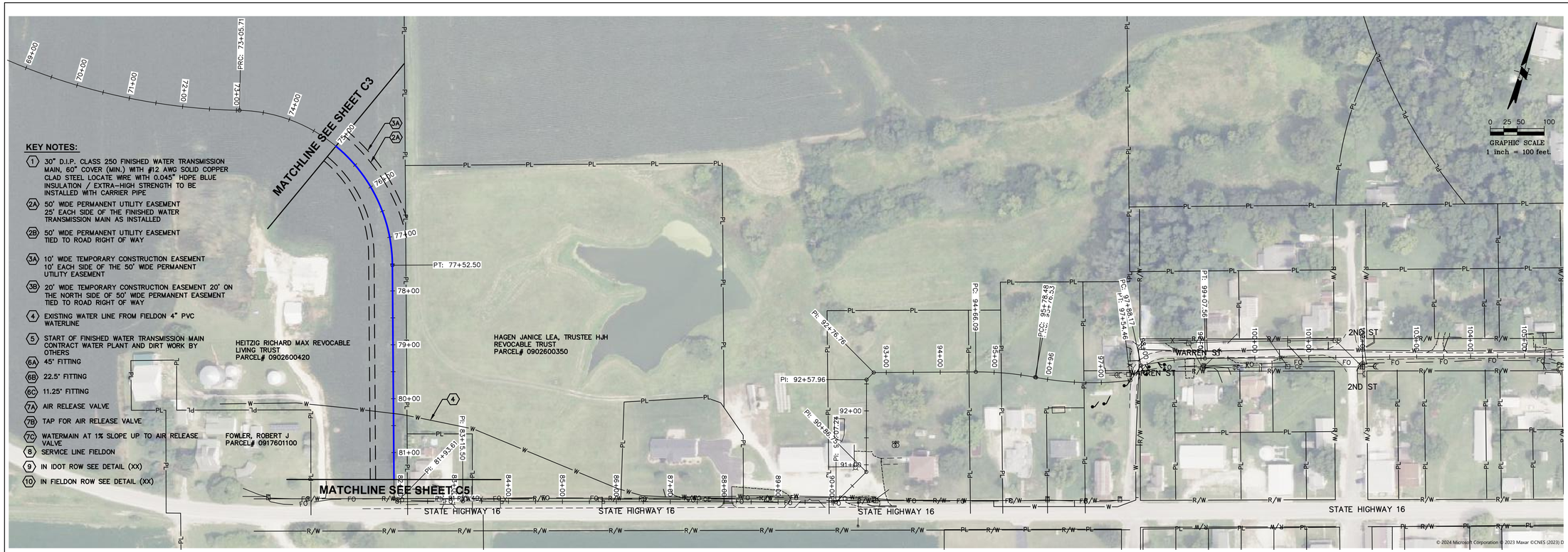
CONTRACT "E" FINISHED WATER TRANSMISSION MAIN AERIAL PLAN AND PROFILE

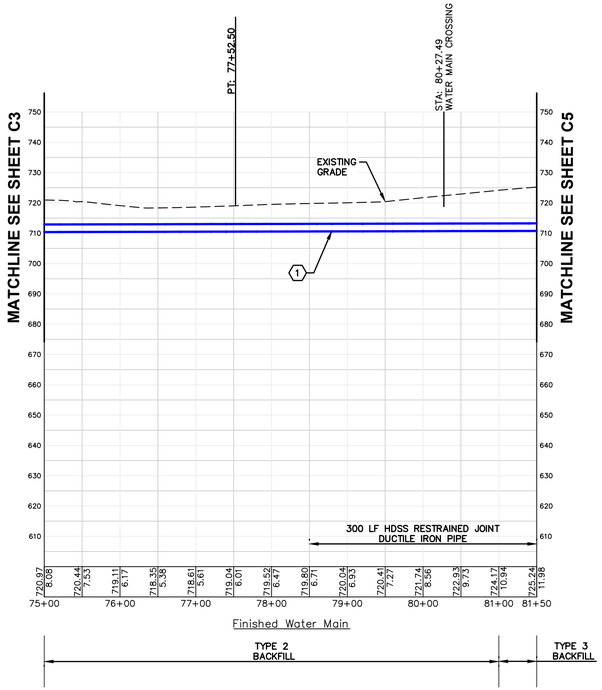
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACCOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C3

7 OF 27 SHEETS

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DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

REVISIONS | DATE | NO.

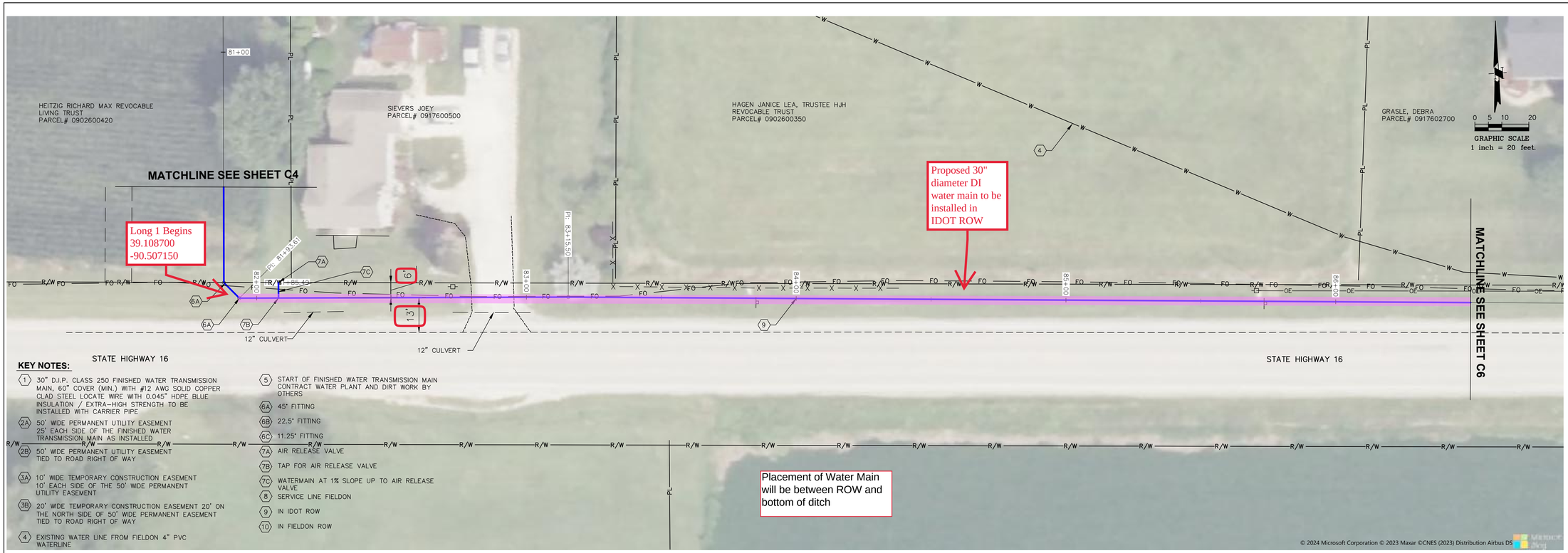
CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE

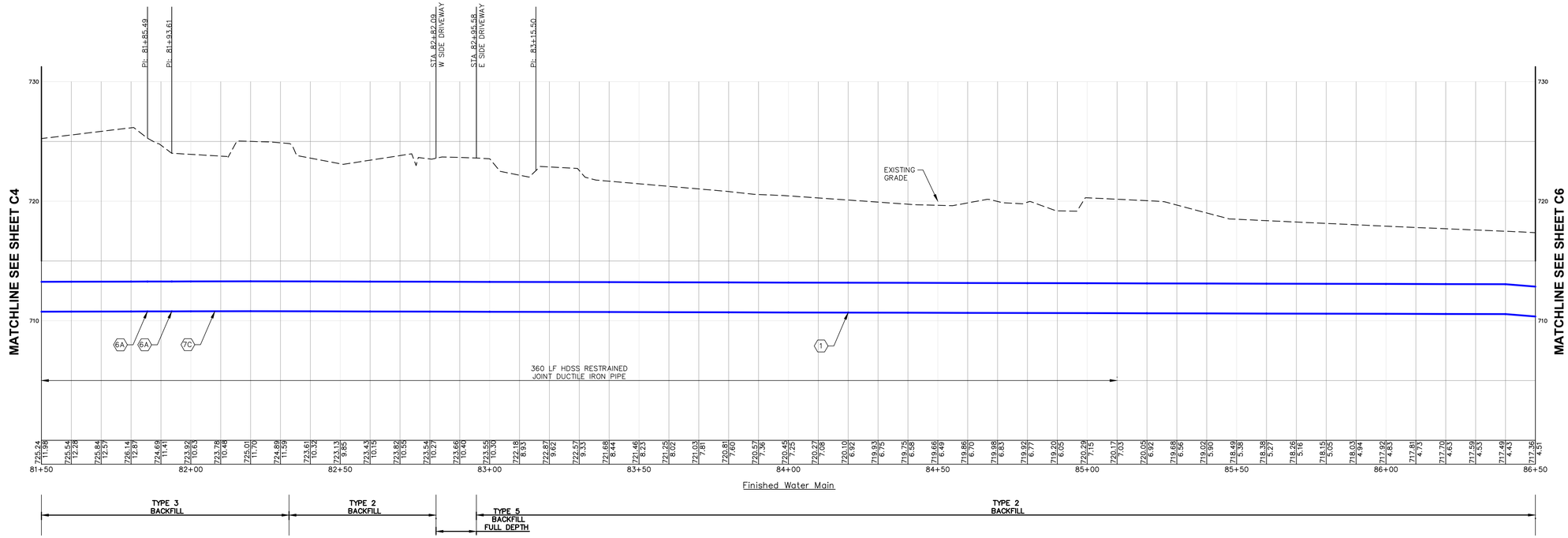
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PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C4
8 OF 27 SHEETS

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KEY NOTES:

1. 30" D.I.P. CLASS 250 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING WATER LINE FROM FIELDON 4" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE
8. SERVICE LINE FIELDON
9. IN IDOT ROW
10. IN FIELDON ROW



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ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
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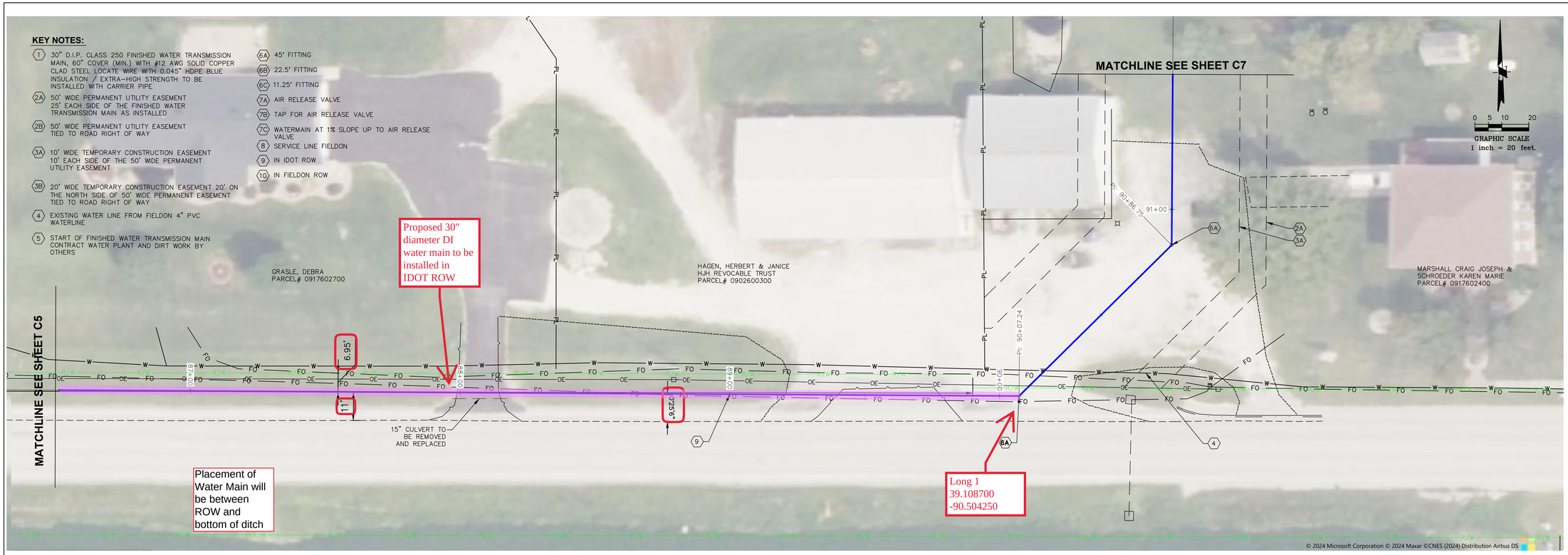
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CHECKED BY:	TAM
APPROVED BY:	SWE
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PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C5

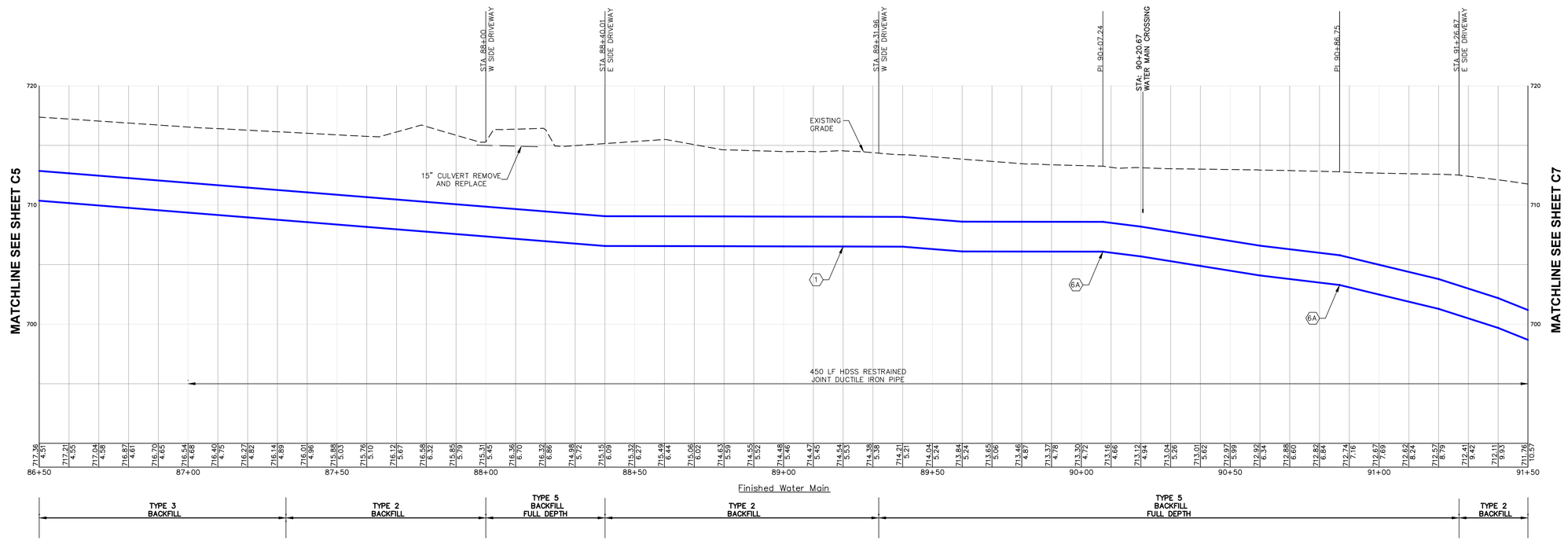
9 OF 27 SHEETS

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KEY NOTES:

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8. SERVICE LINE FIELDON
9. IN IDOT ROW
10. IN FIELDON ROW





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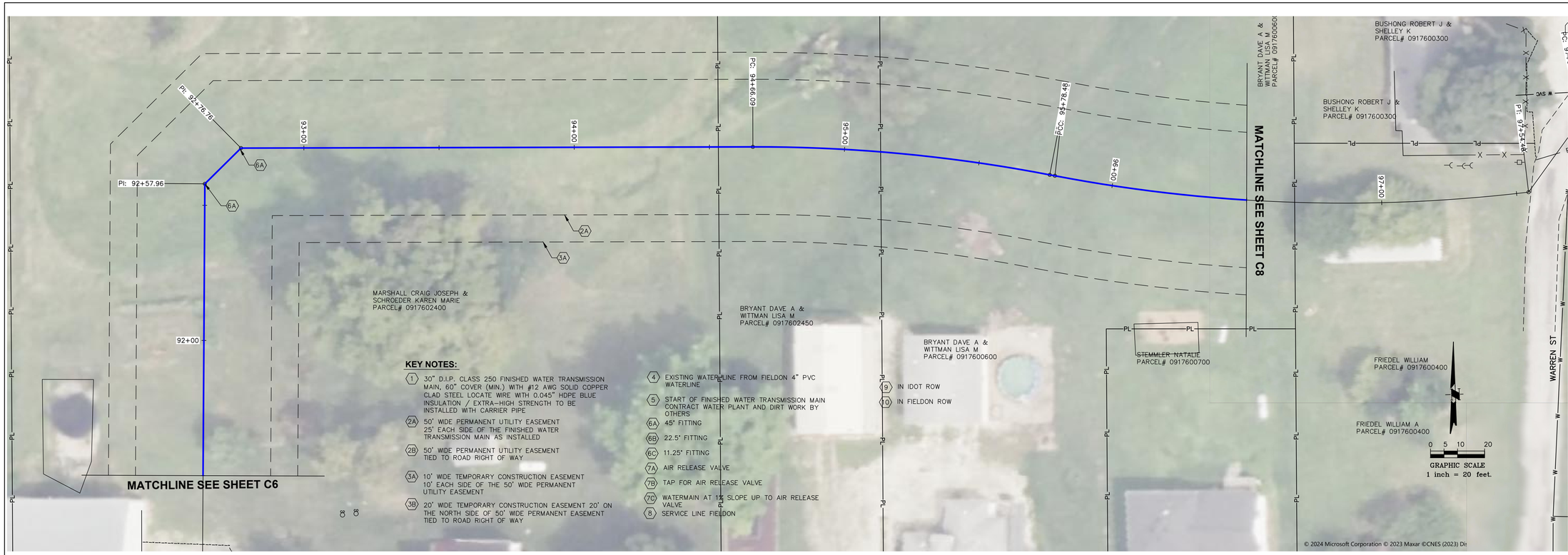
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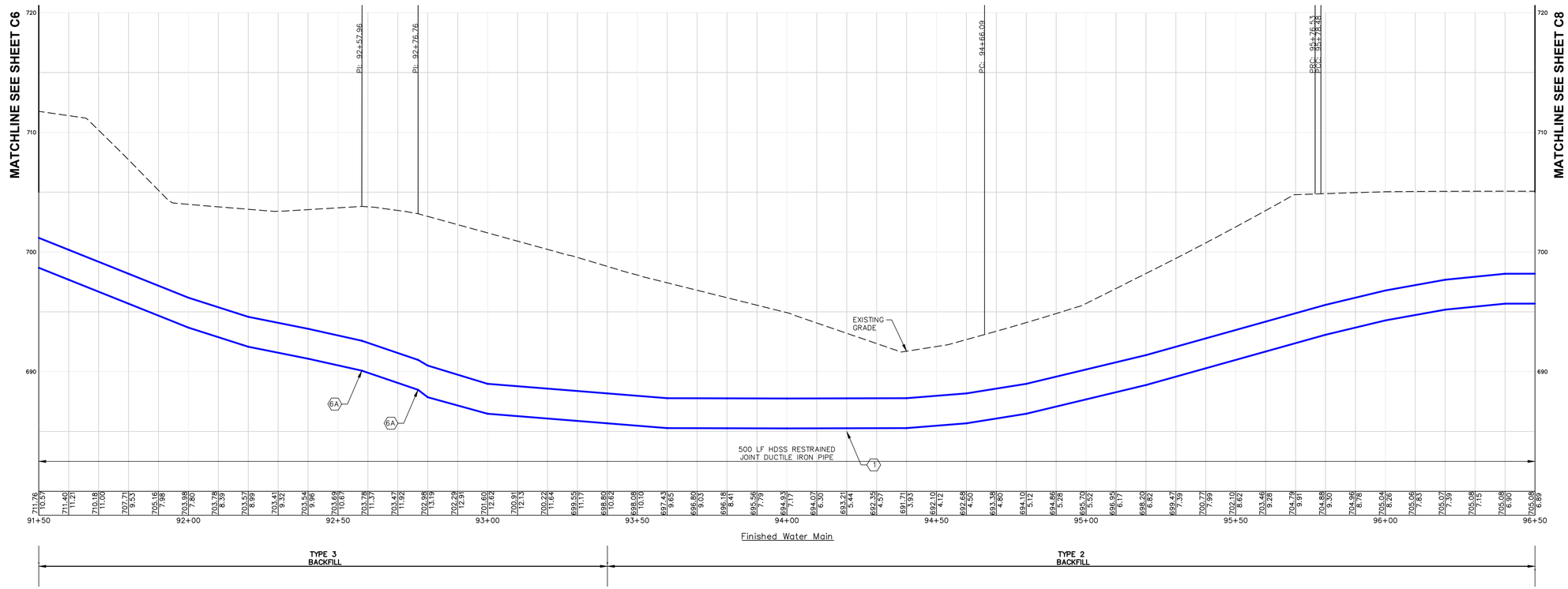
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C6

10 OF 27 SHEETS

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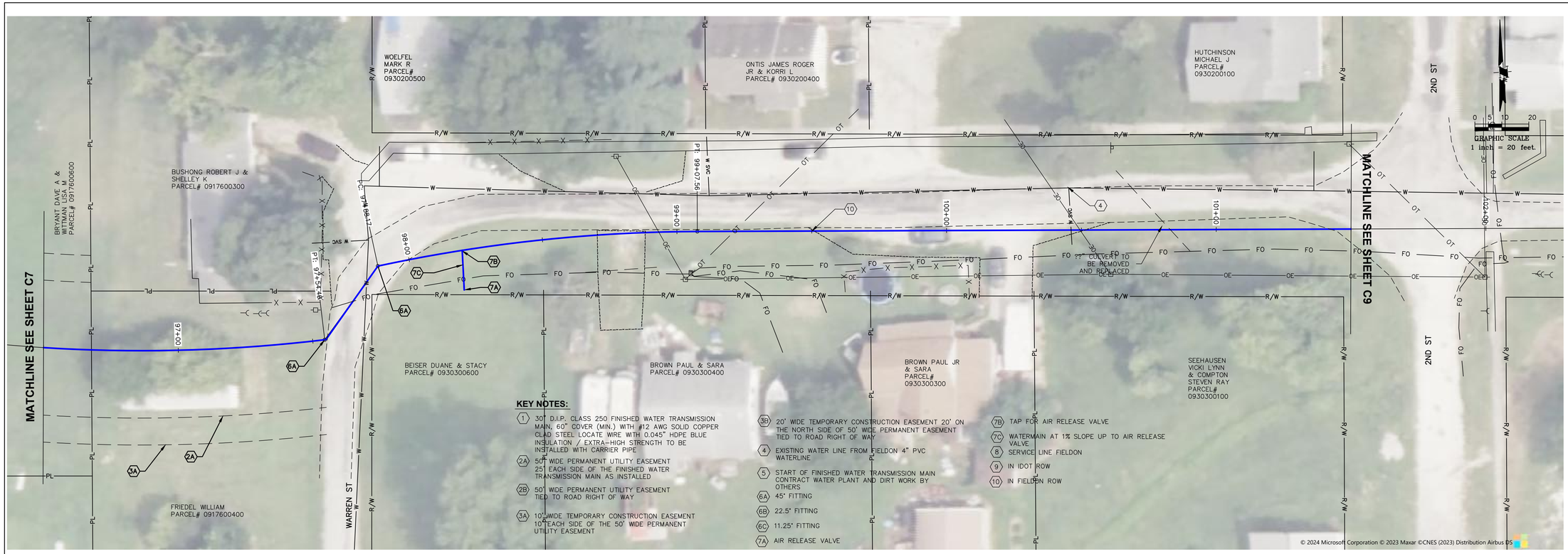
CONTRACT "E" FINISHED WATER TRANSMISSION MAIN AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C7

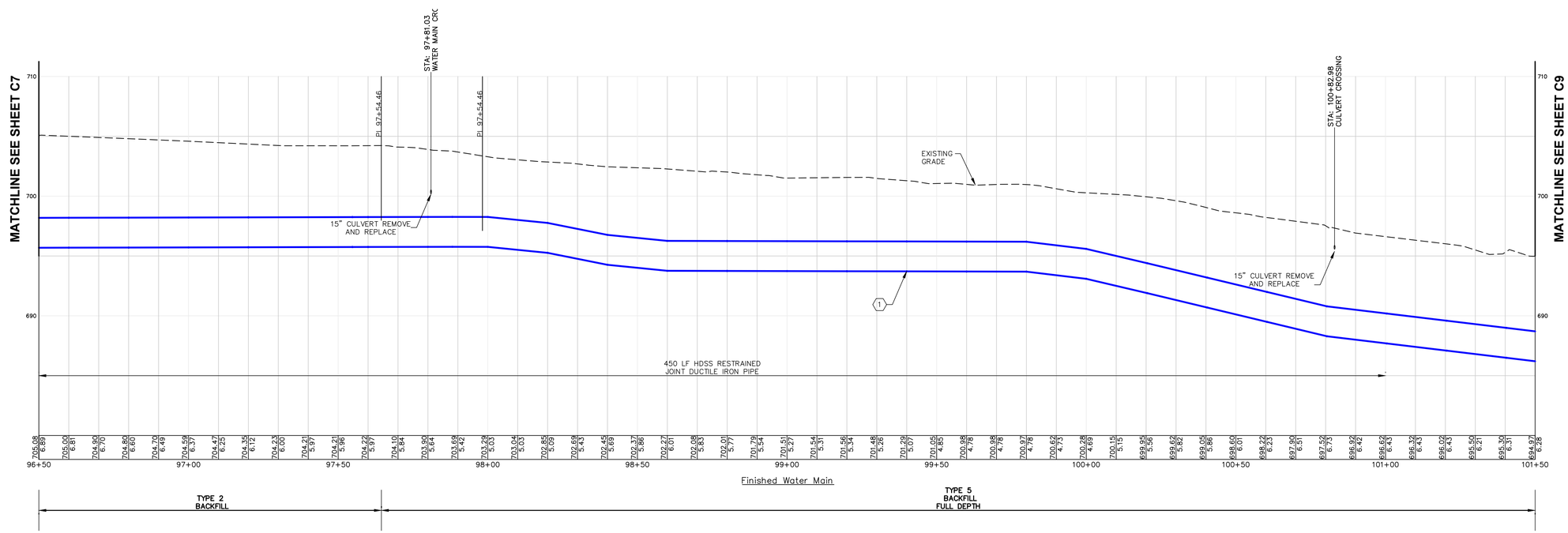
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10. IN FIELDON ROW



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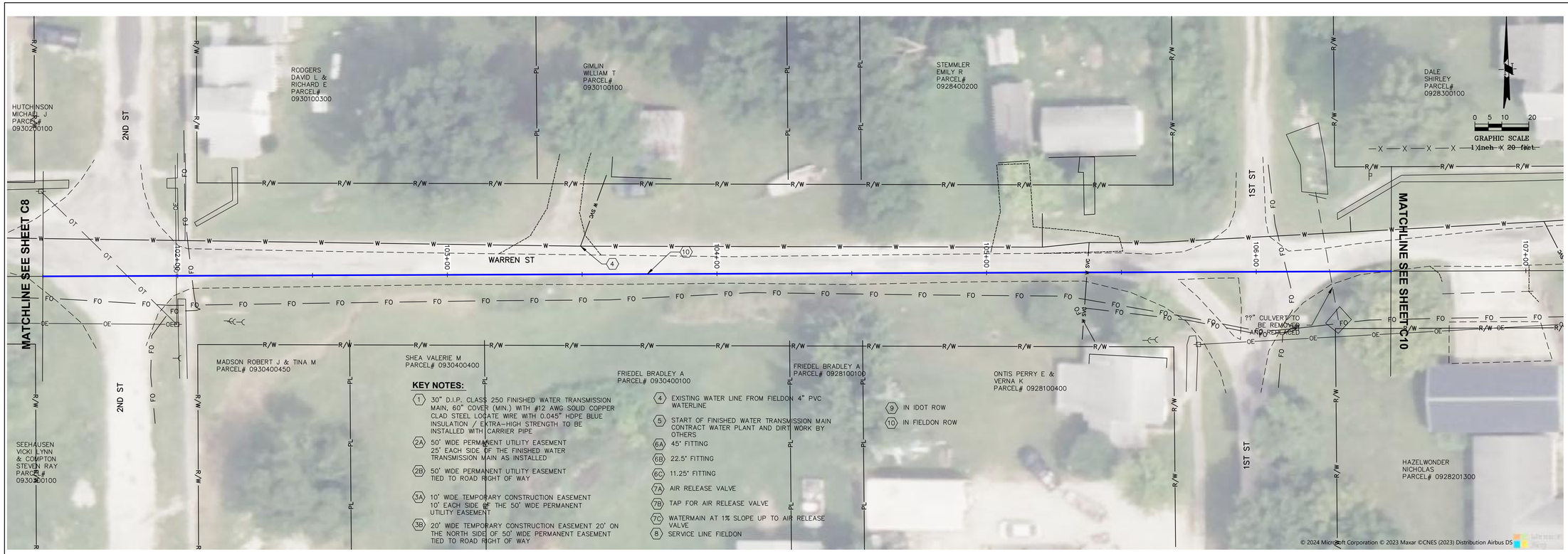
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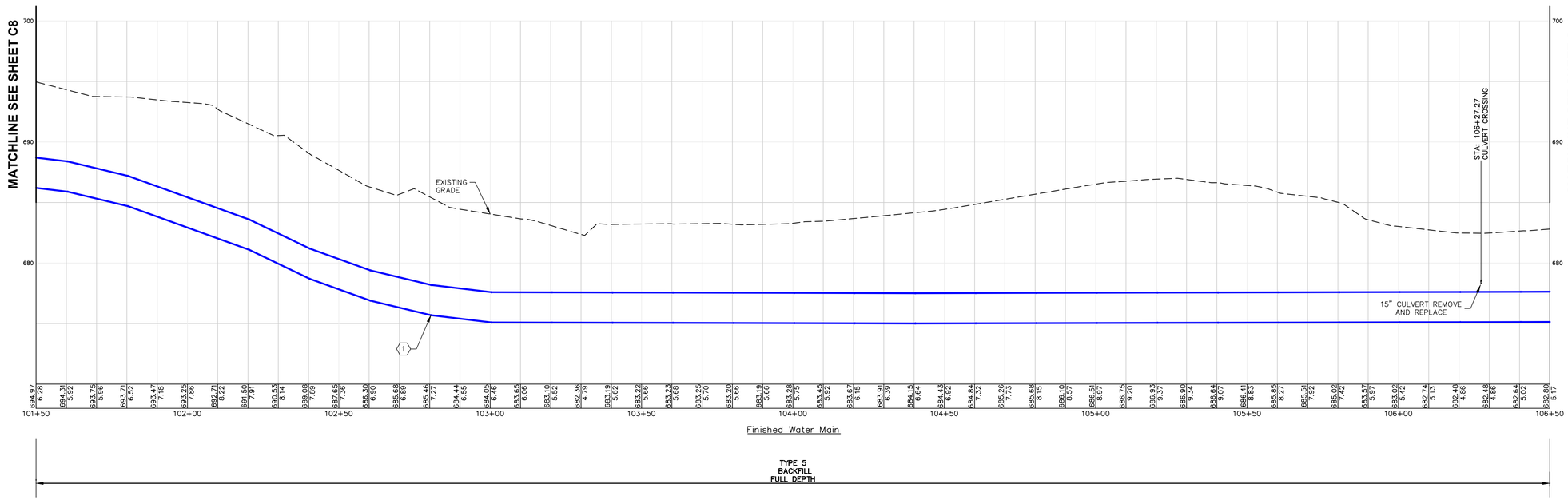
CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C8
12 OF 27 SHEETS

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P: (636) 395-7055

NO.	DATE	REVISIONS

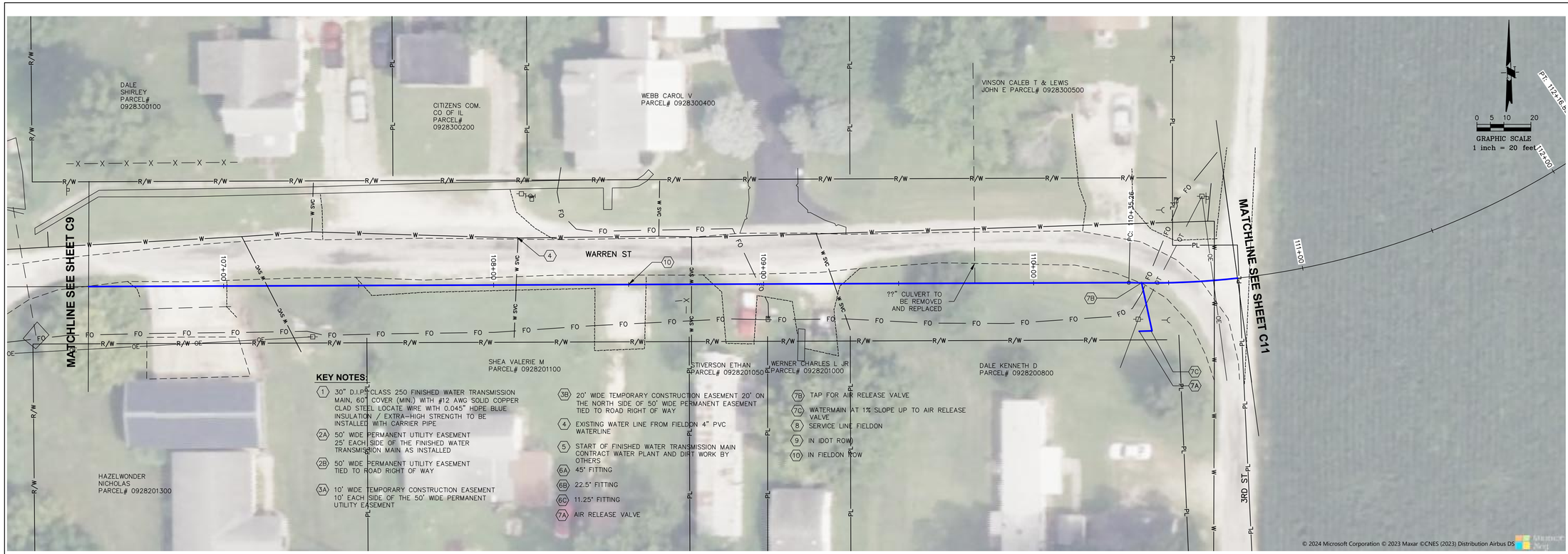
CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C9

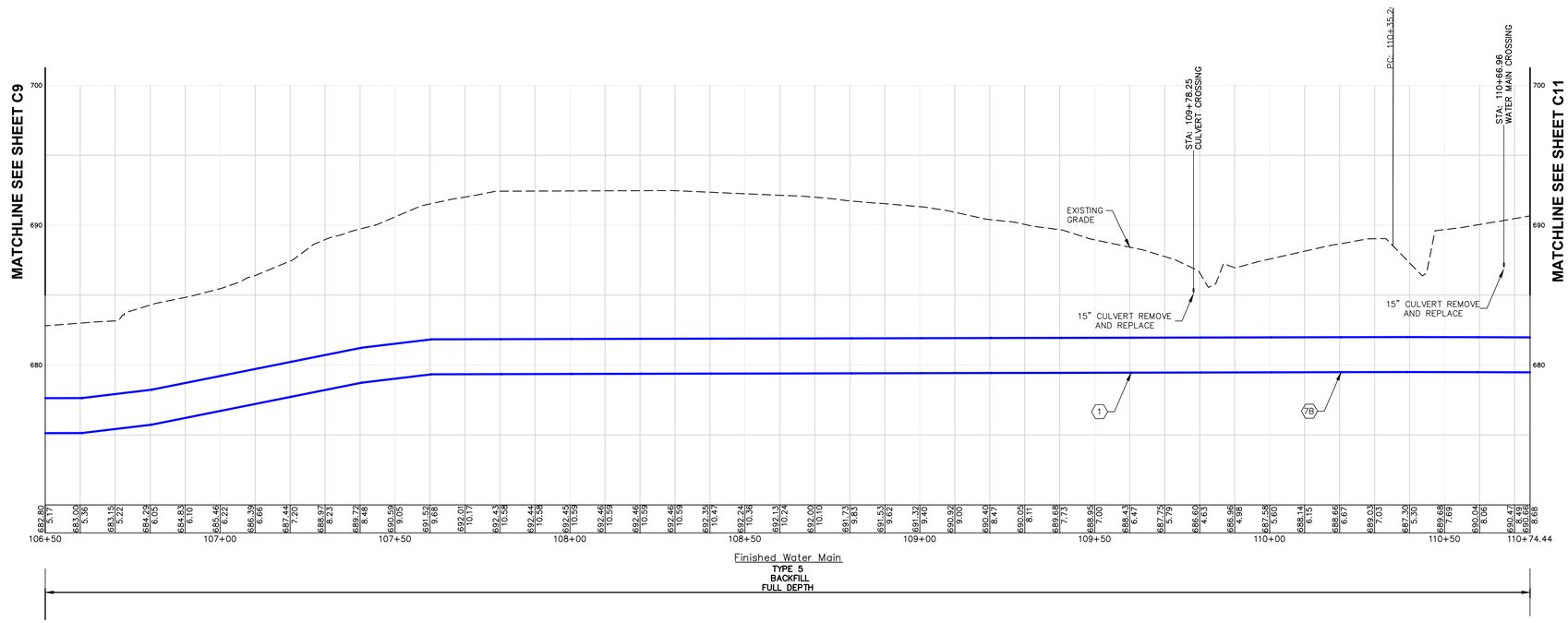
13 OF 27 SHEETS

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PLOTTED: 1/29/2024 @ 10:52:52 AM BY elliott, seth



KEY NOTES:

1. 30" D.I.P. CLASS 250 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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- 3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
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8. SERVICE LINE FIELDON
9. IN IDOT ROW
10. IN FIELDON ROW



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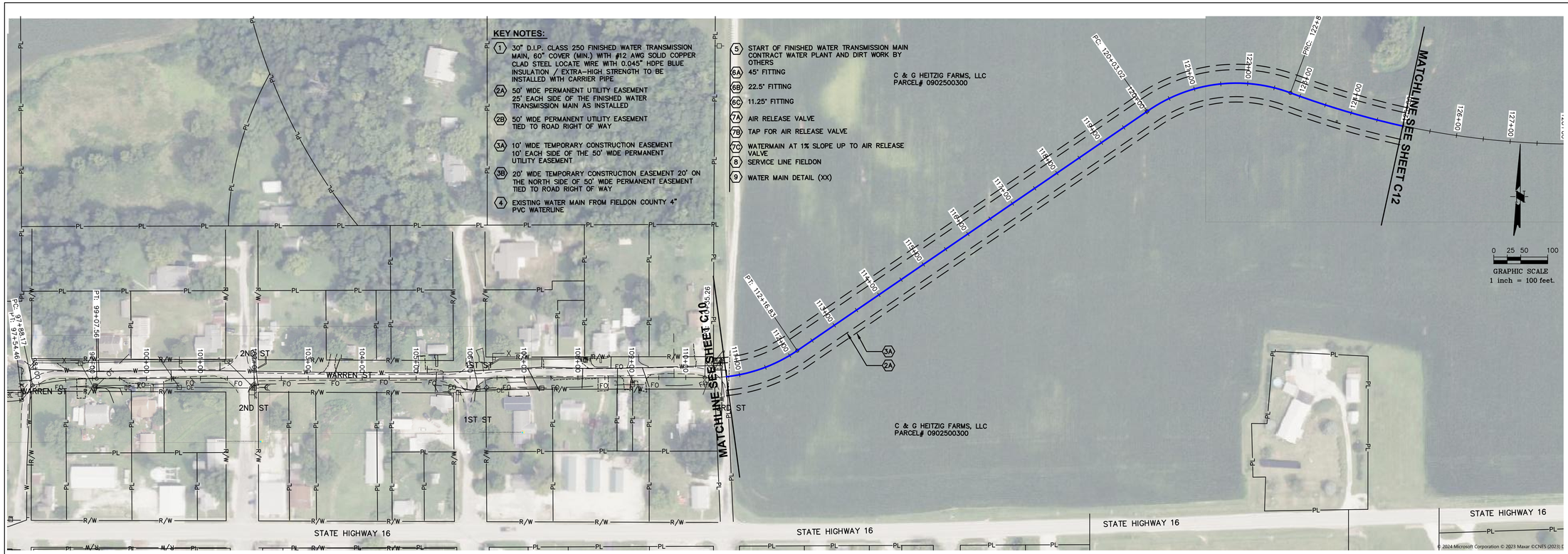
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

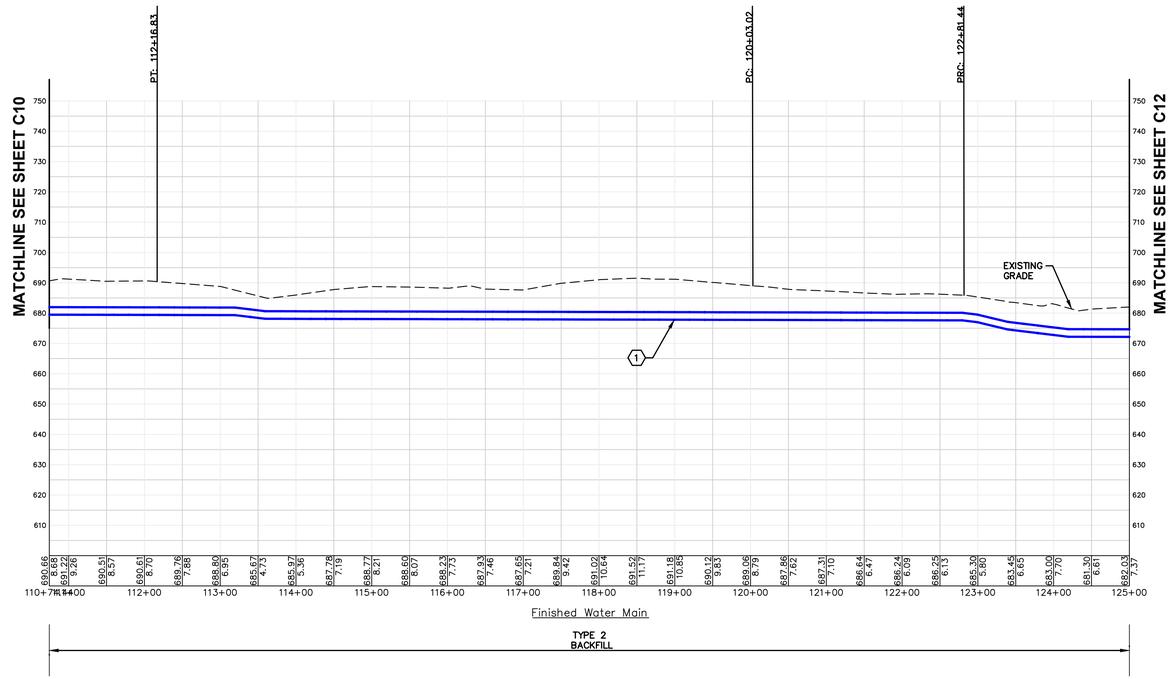
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CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=20
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C10

14 OF 27 SHEETS

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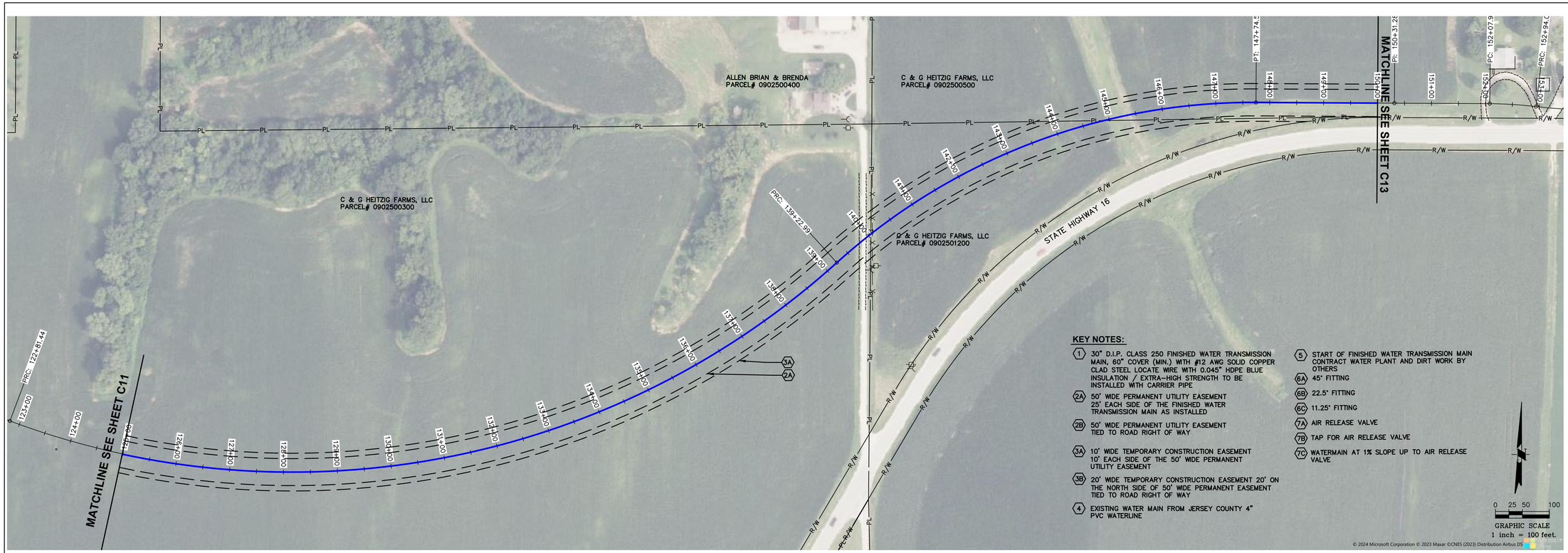
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ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
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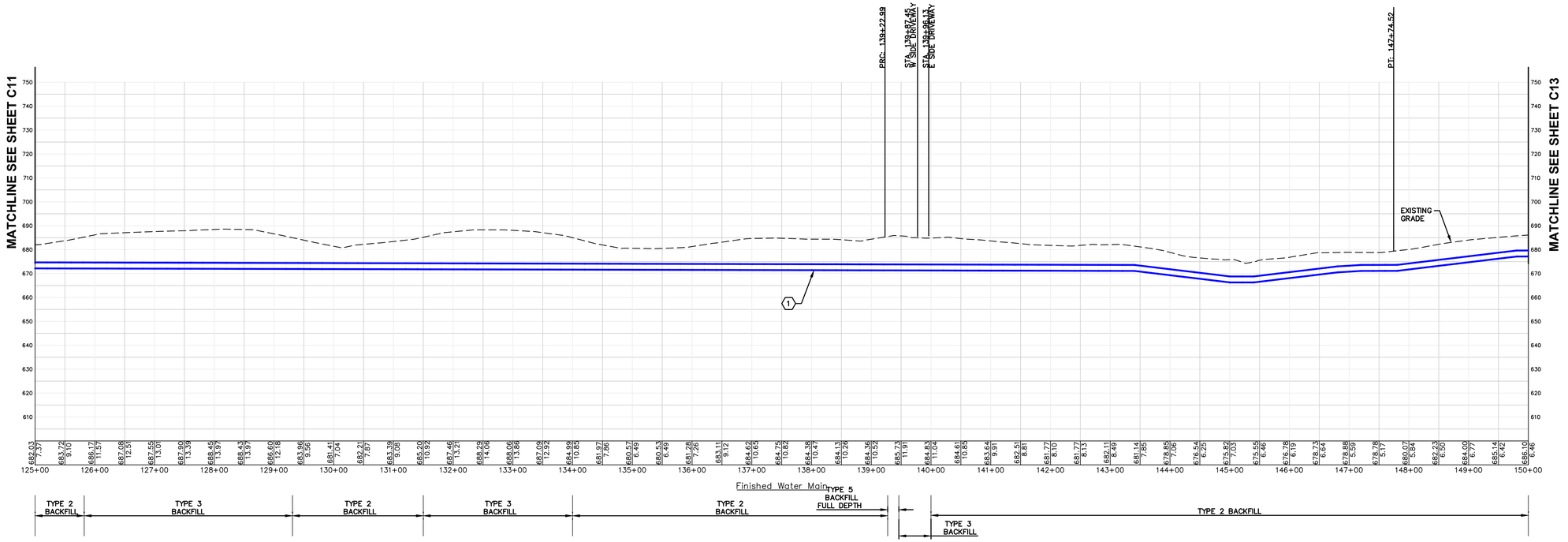
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CHECKED BY: TAM
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HORIZONTAL SCALE: 1"=100'
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PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C11
15 OF 27 SHEETS

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PLOTTED: 1/29/2024 @ 10:58:00 AM BY elliott, seth



KEY NOTES:

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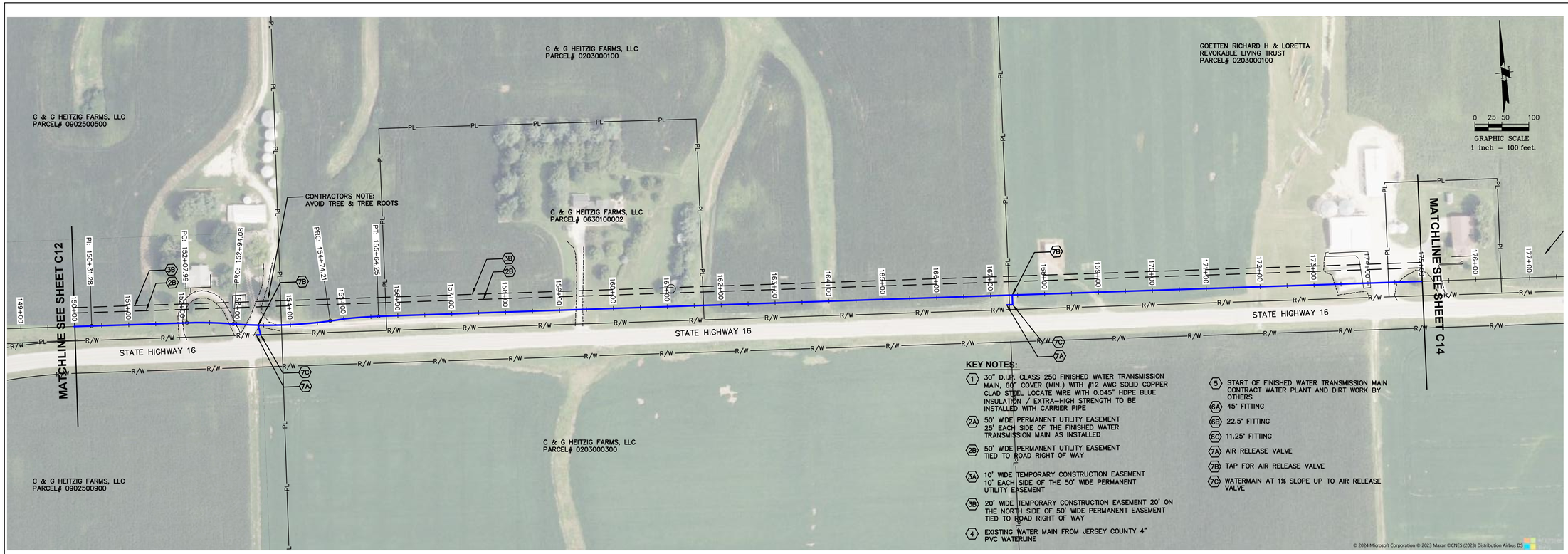
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PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C12

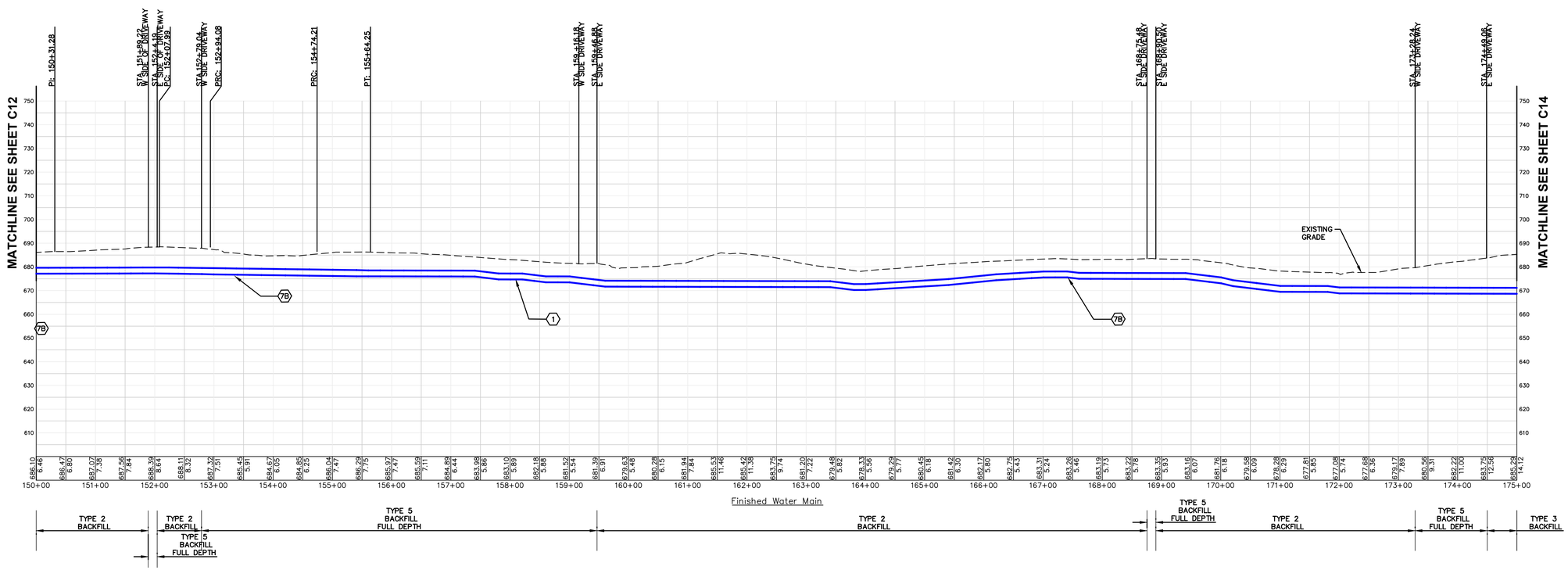
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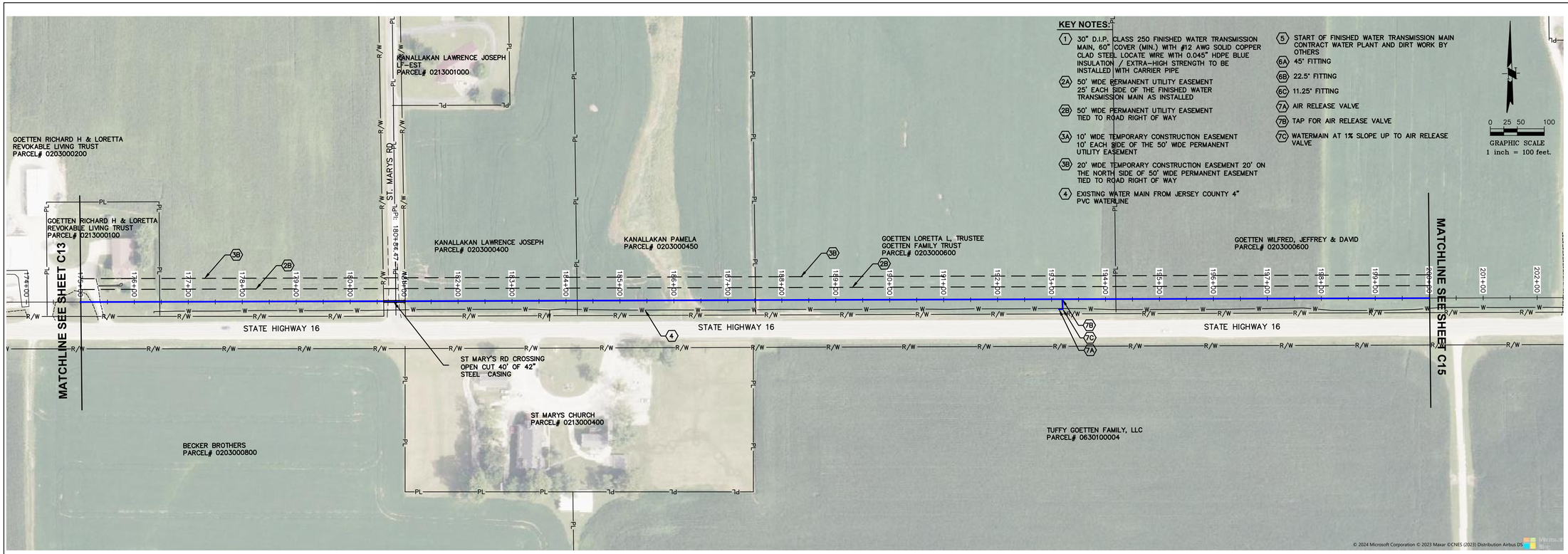
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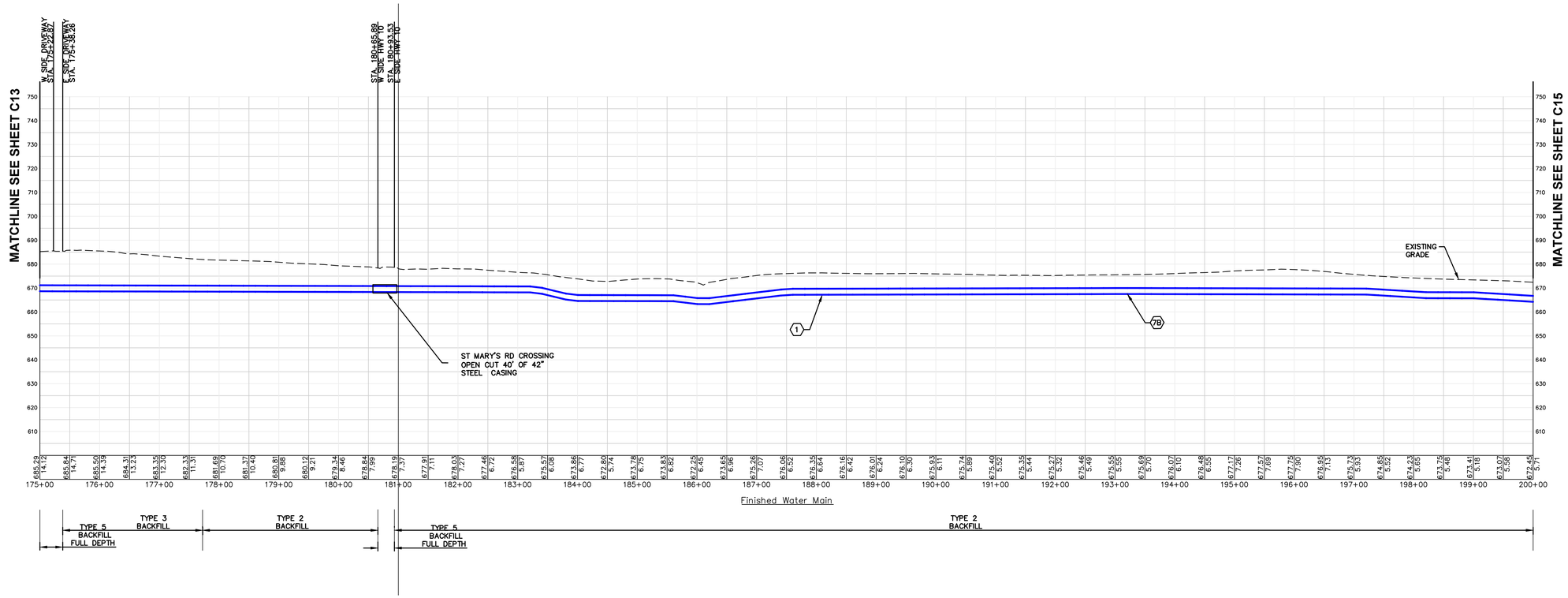
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C13

11 OF 20 SHEETS

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PLOTTED: 1/29/2024 @ 11:03:20 AM BY elliott seth





MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

REVISIONS | DATE | NO.

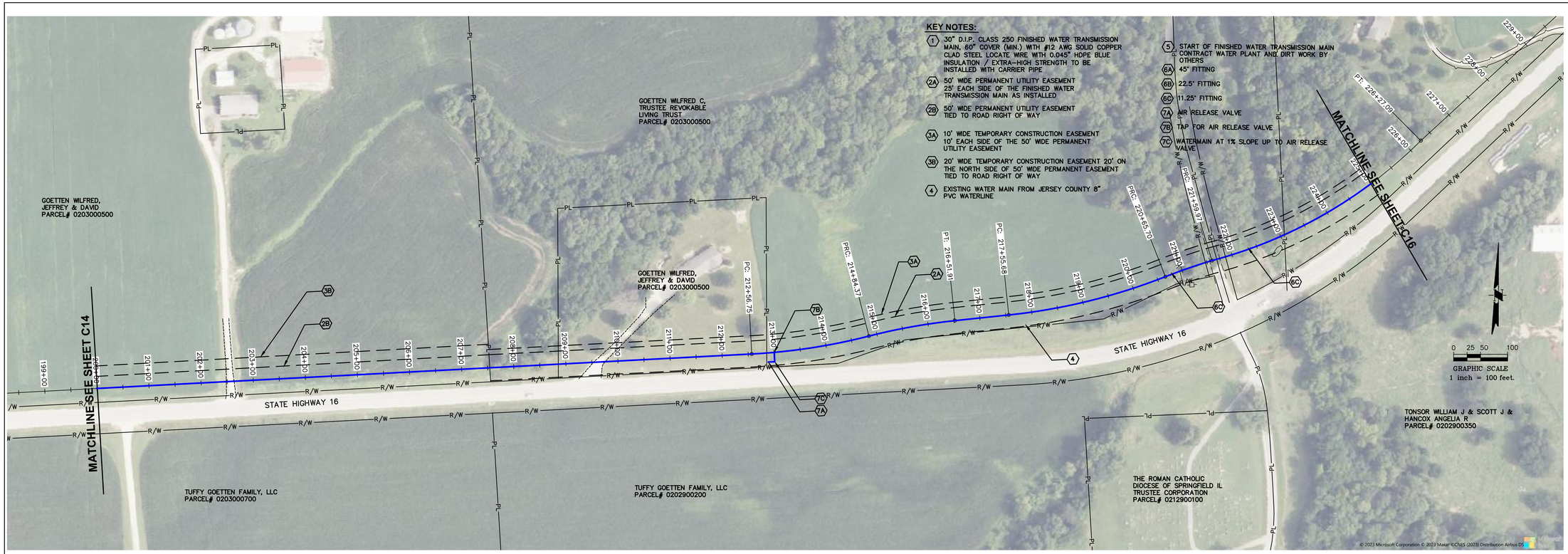
CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

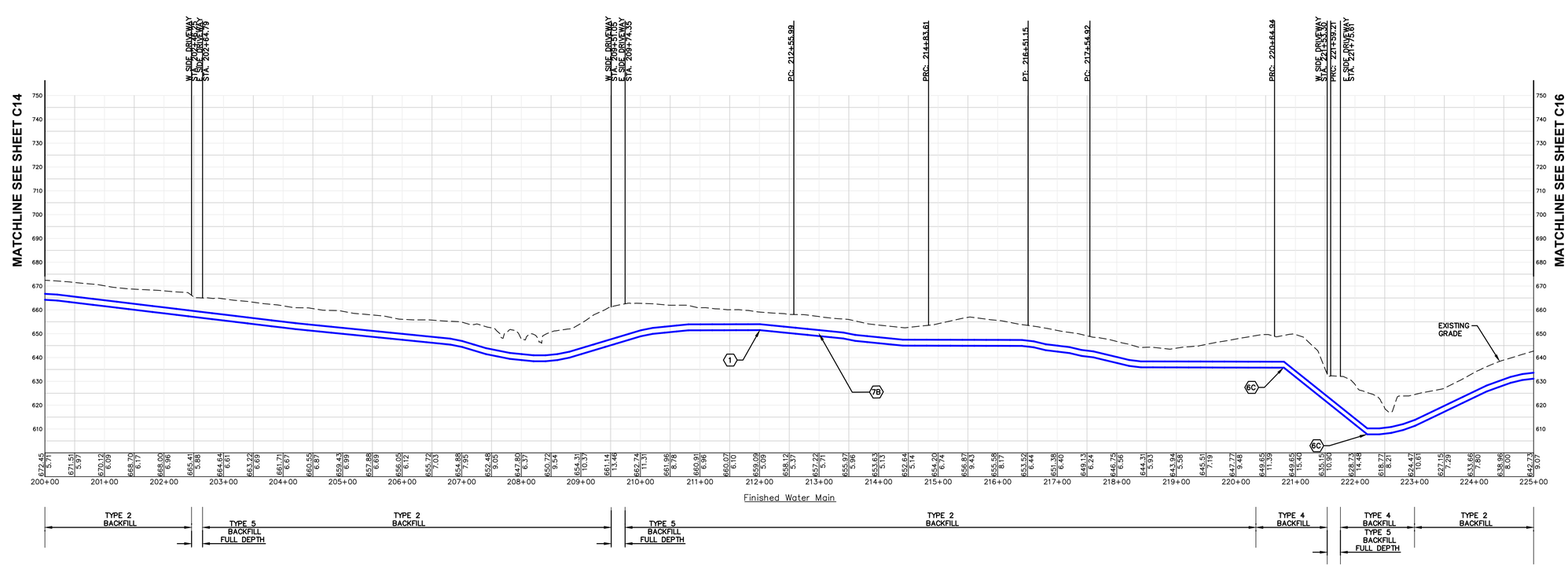
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACCOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
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VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C14

18 OF 27 SHEETS

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REVISIONS | DATE | NO.

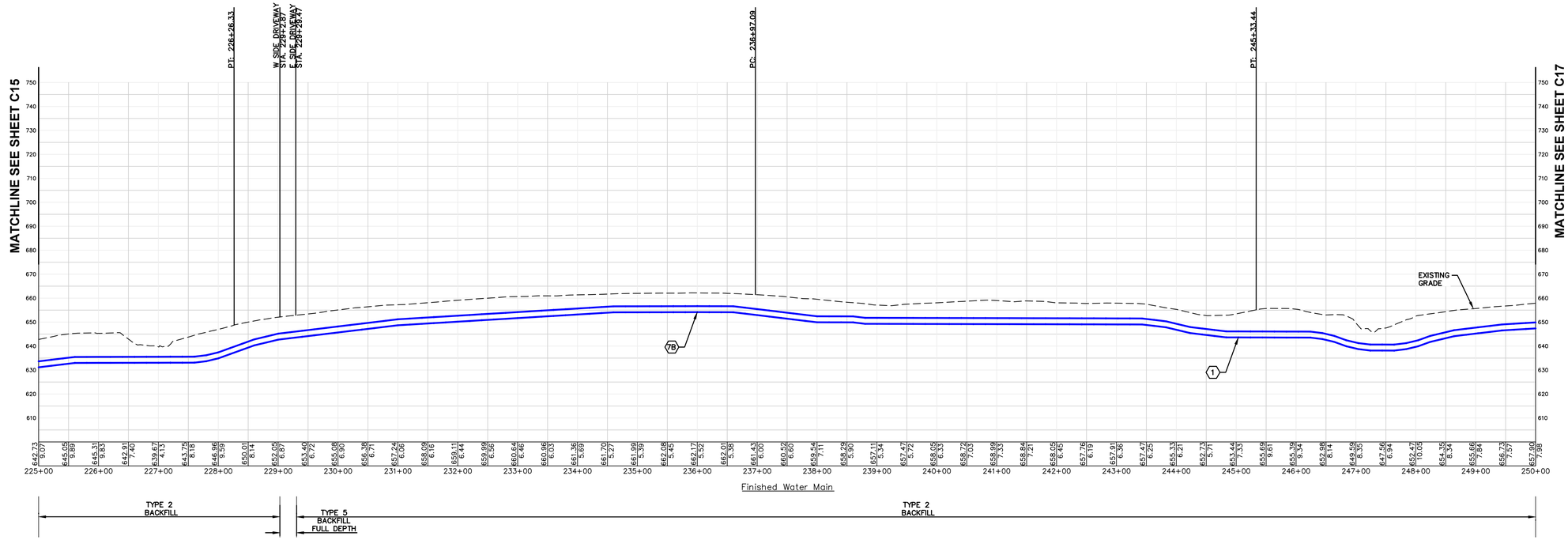
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C15
19 OF 27 SHEETS

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EXPIRES: DECEMBER 31, 2024
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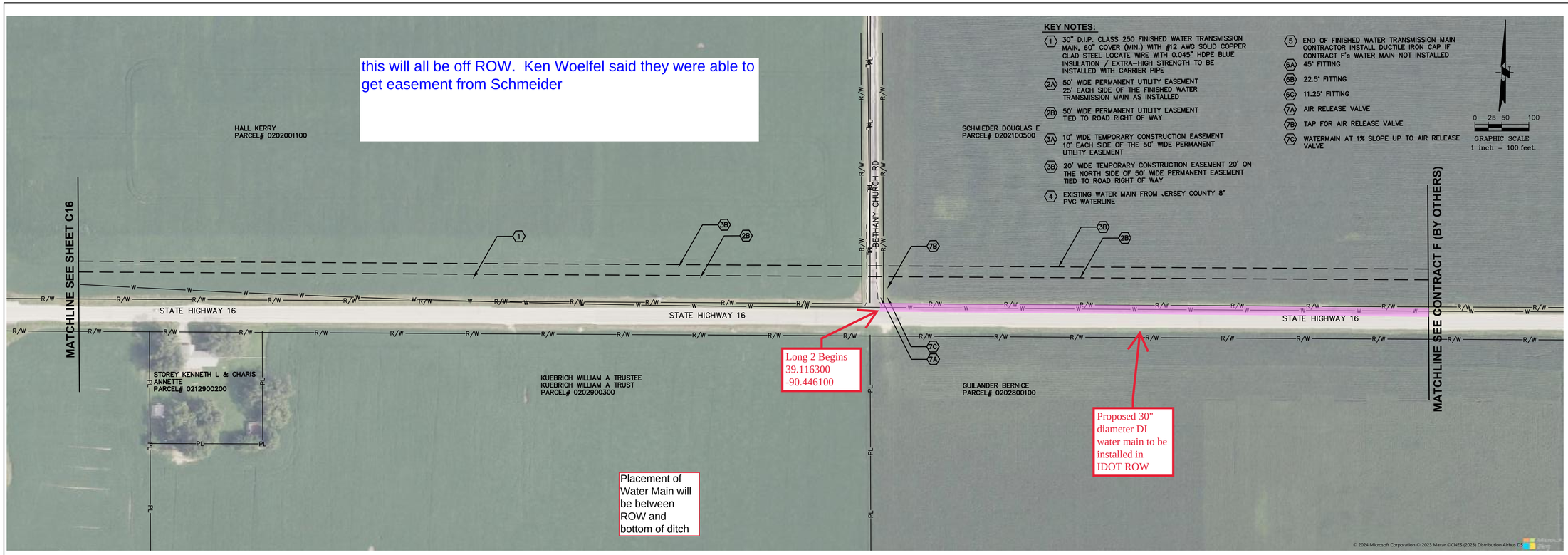
NO.	DATE	REVISIONS

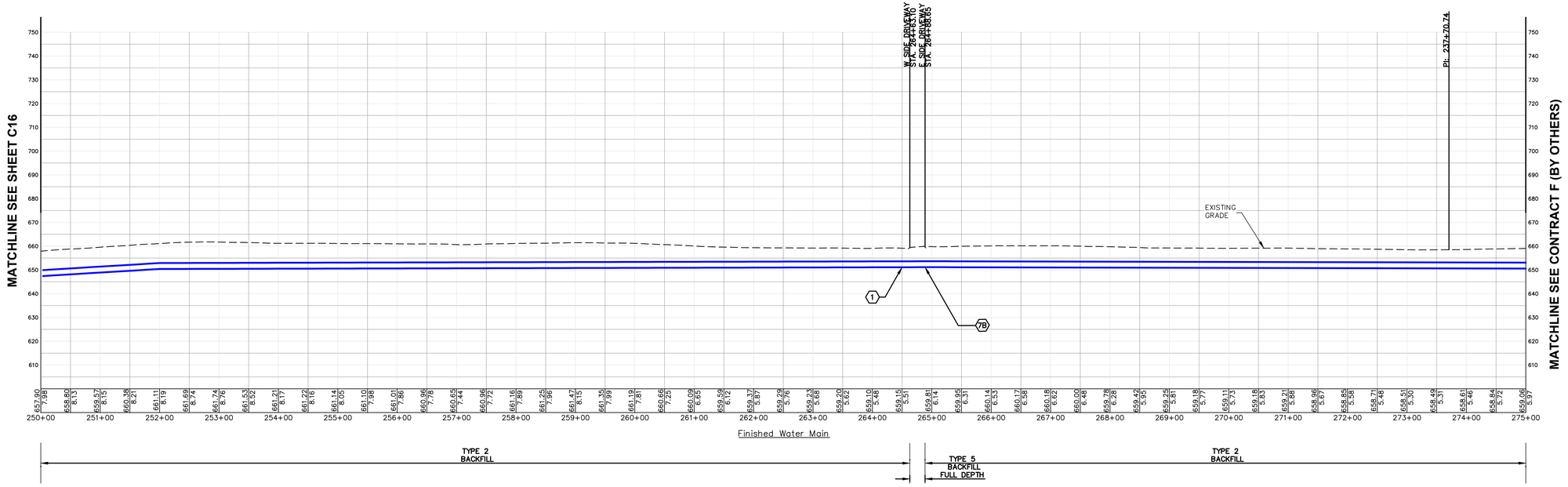
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C16
20 OF 27 SHEETS

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IL: 184.007845-0010
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EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
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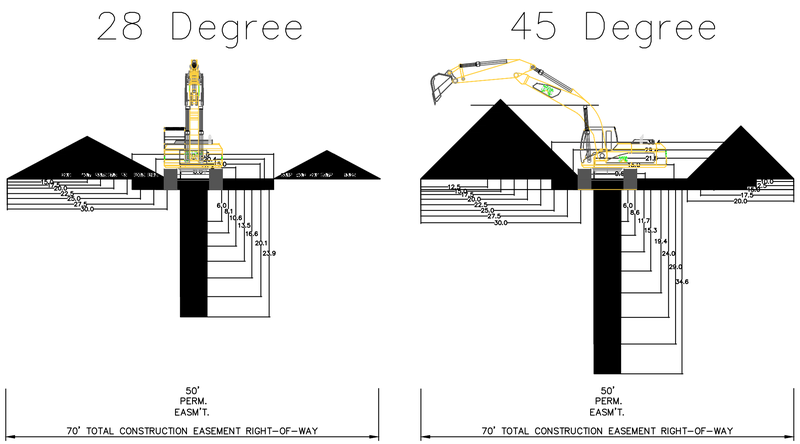
REVISIONS | DATE | NO.

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

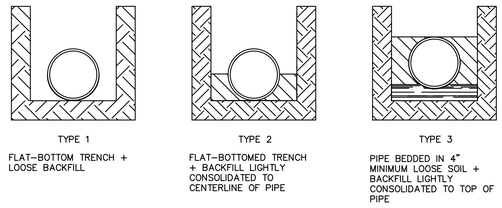
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APPROVED BY: SWE
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PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C17
21 OF 27 SHEETS

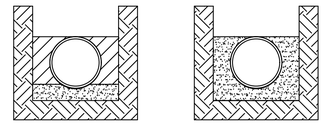
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PLOTTED: 5/22/2024 @ 2:22:26 PM BY madison n. murphy



2 C18 RECOMMENDED CONSTRUCTION EASEMENT R-O-W WIDTH (30" PIPE DIA.)

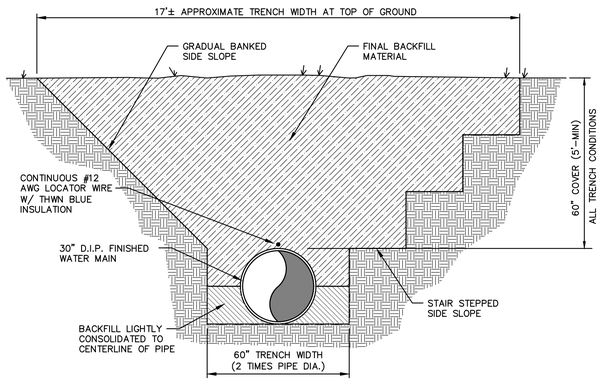
NO SCALE





3 C18 LAYING CONDITIONS

NO SCALE



TYPICAL TRENCH WITH SIDE SLOPES

GENERAL NOTES:

1. MINIMUM TRENCH WIDTH SHALL BE MAINTAINED FROM 6" BELOW PIPE TO 12" ABOVE THE TOP OF PIPE.
2. IF PAYMENT IS AUTHORIZED, PAY LINES FOR ROCK REMOVAL SHALL BE BASED UPON 2 TIMES PIPE DIAMETER.
3. PIPE BEDDING NOTE BELOW IS MINIMUM STANDARD, HOWEVER ANY MORE STRINGENT REQUIREMENTS SET BY PIPE SUPPLIER SHALL SUPERSEDE THE REQUIREMENTS SHOWN.
4. GRANULAR BEDDING GRADUATION SHALL BE AS FOLLOWS UNLESS REQUIRED BY THE PIPE MANUFACTURER OR APPROVED BY THE ENGINEER.

SIEVE SIZE	PERCENT PASSING
1/2"	100
3/8"	80-100
#4	5-80
#10	0-5

5. FLOWABLE FILL MIX SHALL BE AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

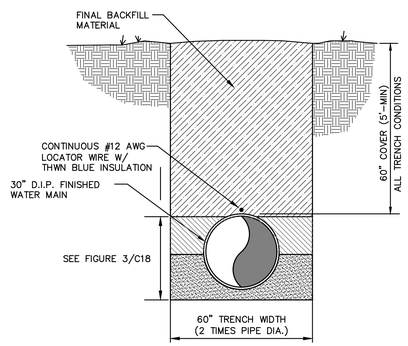
MATERIAL	QUANTITY/CU YD
CEMENT	70 POUNDS
FLY ASH	300 POUNDS
FINE AGGREGATE	2600 POUNDS
WATER	50 GALLON

6. UNSUITABLE BACKFILL MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR AT HIS EXPENSE AND SUITABLE REPLACEMENT MATERIAL PROVIDED AT NO ADDITIONAL COST TO OWNER.
7. ALL TRENCHES SHALL MEET O.S.H.A. REQUIREMENTS.
8. ROADWAY RESURFACING SHALL BE REPLACED AS SHOWN IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR CURRENT REQUIREMENTS OF THE CONTROLLING AUTHORITY, WHICH EVER IS MORE STRINGENT AS DEFINED BY THE ENGINEER.
9. PAVEMENT REPLACEMENT TO CONSIST OF THE FOLLOWING:

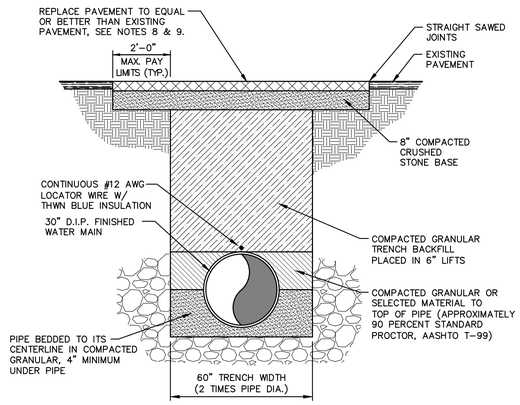
ASPHALT
MATERIAL: HOT MIX ASPHALT
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 4" COMPACTED IN PLACE
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL
TACK COAT TOP OF FLOWABLE FILL OR PRIME CRUSHED STONE BASE AT A RATE OF 0.25 GALLON / SQUARE YARD.

CONCRETE
MATERIAL: PORTLAND CEMENT CONCRETE 4,000 PSI @ 28 DAYS
DOWEL W/#4x24" @ 24" O.C.
THICKNESS: MATCH EXISTING (NOT LESS THAN 6")
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL

GRAVEL
MATERIAL: 1" MINUS CRUSHED STONE
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 6" COMPACTED IN PLACE
NOTE: DELETE CRUSHED STONE BASE AND SAW JOINT REQUIREMENTS



TYPICAL TRENCH



GRANULAR BACKFILL WARRANTED CONDITIONS

(INCLUDING ROCK EXCAVATION)

1 C18 TRENCH CONDITIONS

SCALE: 3/8" = 1'-0"

MECO-HENEGHAN ENGINEERS, LLC
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NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

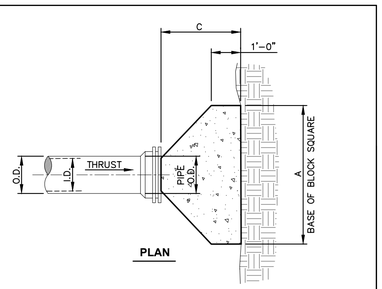
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C18
22 OF 27 SHEETS

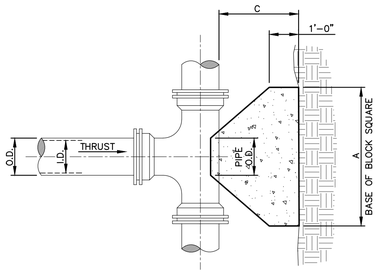
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PLOTTED: 1/29/2024 @ 11:14:00 AM BY elliott, seth

GENERAL NOTES FOR ALL THRUST BLOCKS

1. CONCRETE FOR BLOCKING SHALL BE CLASS "B" (SEE NCTCOG 702.2.4.2)
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON AND PVC, AND 150 PSI FOR CONCRETE PIPE.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS T (SEE TABLE) ASSUMED FOR ESTIMATING PURPOSES ONLY.
5. POUR CONCRETE FOR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER / INSPECTOR. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN IN TABLES.
7. THE CALCULATIONS ARE BASED ON BEARING PRESSURES EQUAL TO 1,000 lbs/sf IN SOIL AND 2,000 lbs/sf IN ROCK.
8. USE POLYETHYLENE WRAP BETWEEN CONCRETE BLOCKING AND BENDS, TEES AND CAPS TO PREVENT THE CONCRETE FROM STICKING TO FITTINGS.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.



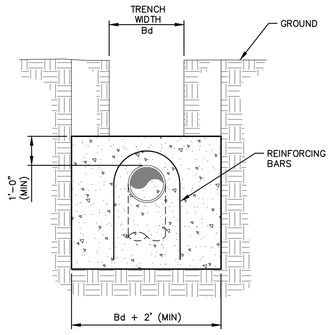
PLAN



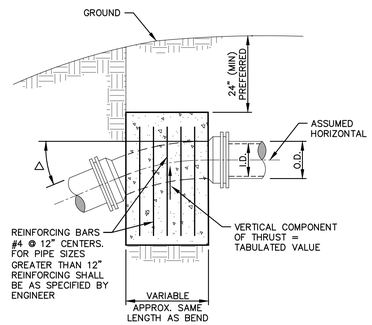
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		EARTH		ROCK		
I.D. (IN.)	THRUST (TONS)	C (FT.)	A (FT.)	VOL. (C.Y.)	A (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	53.0	3.0	7.5	4.1	5.5	2.4	30"
36"	76.3	4.0	9.0	7.3	6.5	4.2	36"

HORIZONTAL THRUST BLOCK AT TEES AND CAPS



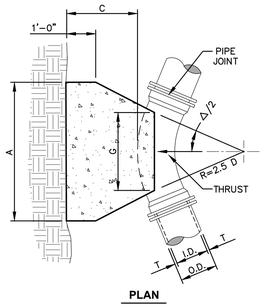
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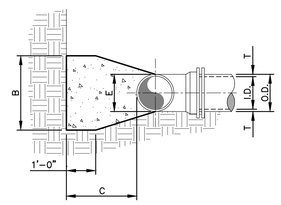
SECTION

△	11.25°		22.5°		45°		90°		△
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
30"	10.5	5.2	20.3	10.1	37.5	18.8	53.1	26.5	30"
36"	14.9	7.5	29.2	14.6	54.0	27.0	76.4	38.2	36"

VERTICAL THRUST BLOCK AT PIPE BEND



PLAN



SECTION

I.D. (IN.)	T (FT.)	C △ = 11.25° (FT.)	C △ = 22.5° (FT.)	E (FT.)
30"	2.9	1.5	1.9	2.5
36"	4.5	1.5	2.3	3.3

△ = 11.25°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	1.4	10.4	3.0	3.5	0.6	2.0	3.5	0.4	30"
36"	1.7	15.0	3.5	4.5	0.9	2.0	4.0	0.5	36"

△ = 22.5°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	30"
36"	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	36"

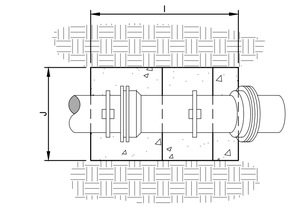
△ = 45°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	5.4	40.5	8.5	5.0	3.2	5.5	4.0	1.6	30"
36"	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6	36"

△ = 90°

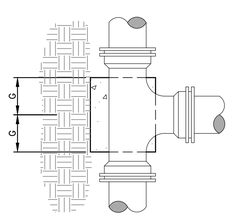
			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3	30"
36"	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3	36"

HORIZONTAL THRUST BLOCK AT PIPE BENDS



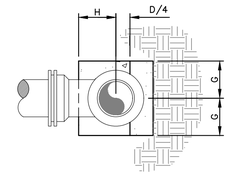
PLAN

THRUST BLOCKS FOR 1/16 AND 1/8 BENDS



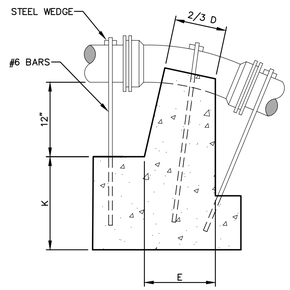
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THRUST BLOCK FOR TEES



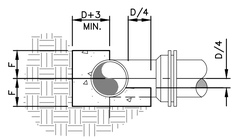
PLAN

THRUST BLOCK FOR VERTICAL BENDS



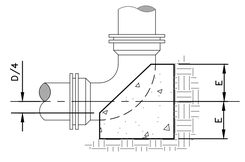
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THRUST BLOCKS FOR 1/16 AND 1/8 BENDS



SECTION

THRUST BLOCK FOR TEES



SECTION

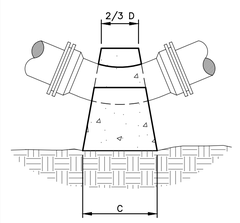
THRUST BLOCK FOR VERTICAL BENDS

THRUST BLOCK DIMENSIONS

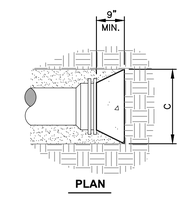
PIPE SIZE	B	C	D	E	F	G	H	I	J	K
2"–4"	15"	15"	2"–4"	8"	11"	11"	6 1/2"	36"	30"	30"
6"	17"	15"	6"	8"	12"	13"	8"	36"	30"	30"
8"	19"	20"	8"	8"	13"	14"	9"	48"	36"	33"
10"	22"	25"	10"	10"	16"	15"	11"	54"	48"	36"
12"	30"	50"	12"	15"	24"	15"	14"	—	—	—
14"	36"	58"	14"	18"	29"	18"	16"	—	—	—
16"	40"	67"	16"	20"	34"	20"	18"	—	—	—
18"	48"	72"	18"	24"	36"	24"	20"	—	—	—
20"	50"	84"	20"	26"	42"	26"	22"	—	—	—
24"	54"	112"	24"	27"	56"	27"	26"	—	—	—
30"	??"	???"	?"	?"	?"	?"	?"	—	—	—
36"	??"	???"	?"	?"	?"	?"	?"	—	—	—

MAXIMUM DESIGN PRESSURE = 250 PSI

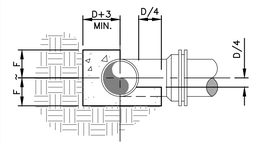
1 / C19 THRUST BLOCKS
NO SCALE



PLAN

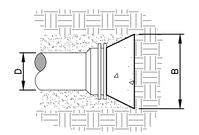


PLAN



SECTION

THRUST BLOCK FOR HORIZONTAL BENDS



SECTION

THRUST BLOCK FOR CAPS

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

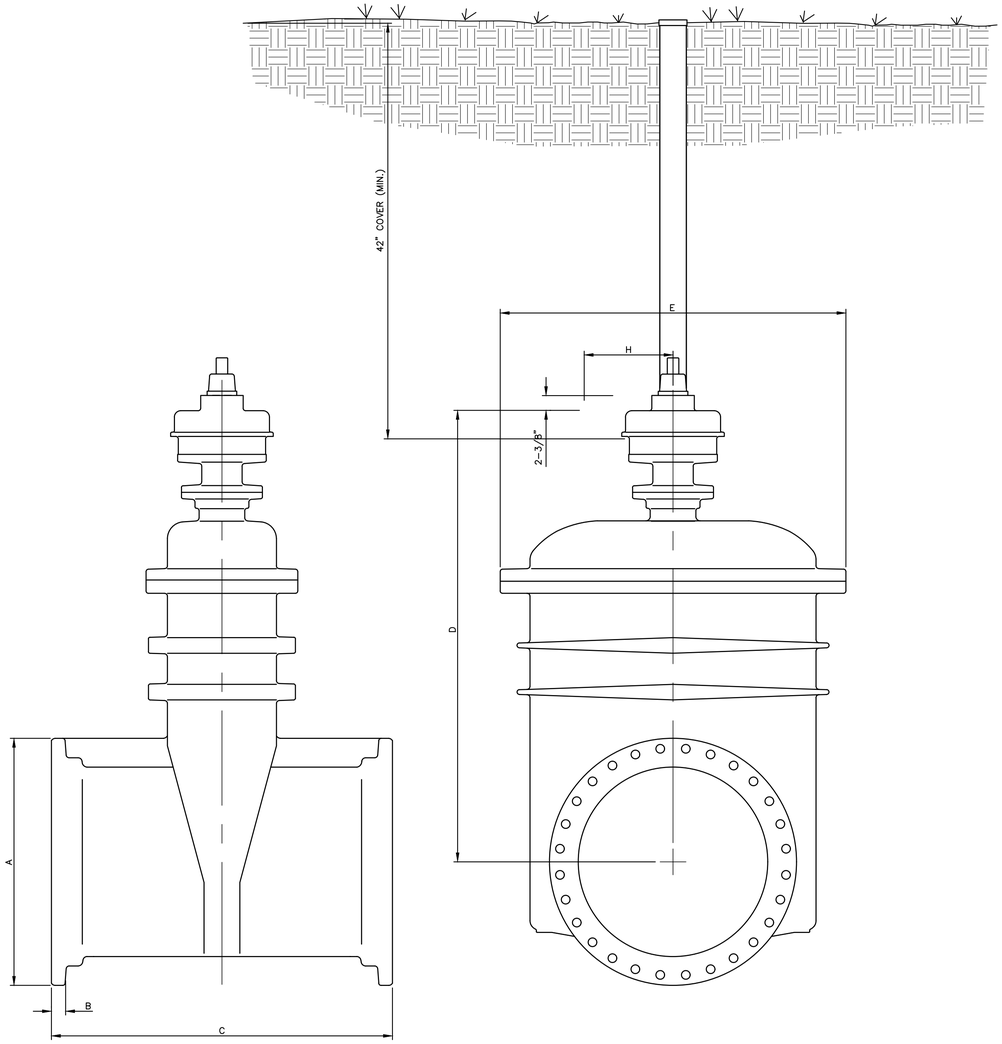
NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C19
23 OF 27 SHEETS

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PLOTTED: 1/29/2024 @ 11:14:01 AM BY elliott, seth

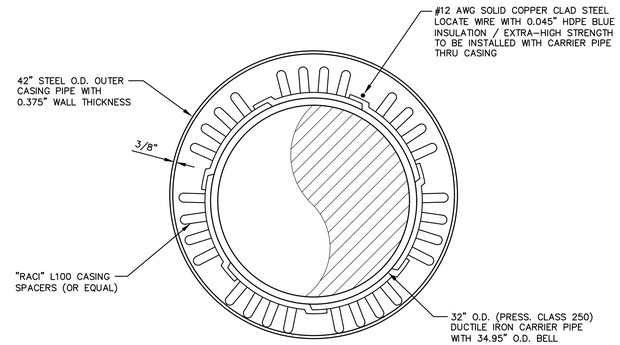


VALVE SIZE	A	B	C	D	E	F	G	H	J
30"	39-1/2"	1-3/4"	48-1/2"	71-1/2"	54-3/4"	20"	1"	14-7/8"	2"

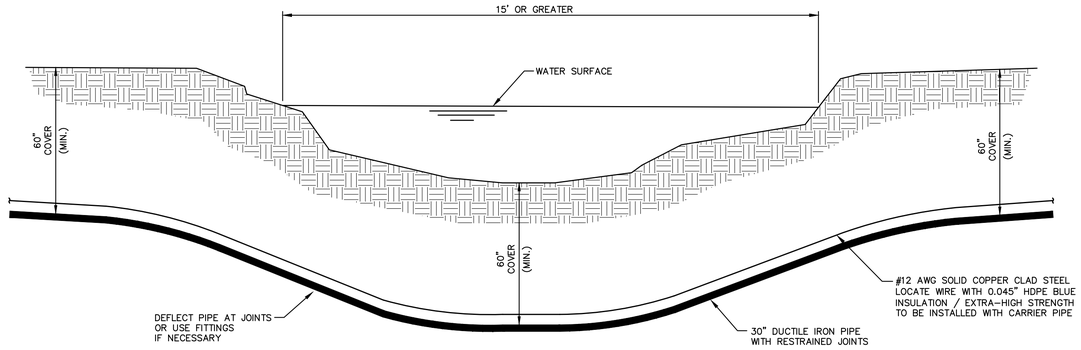
1 C20 **30" GATE VALVE WITH BEVEL GEARING**
NO SCALE

NOTES:

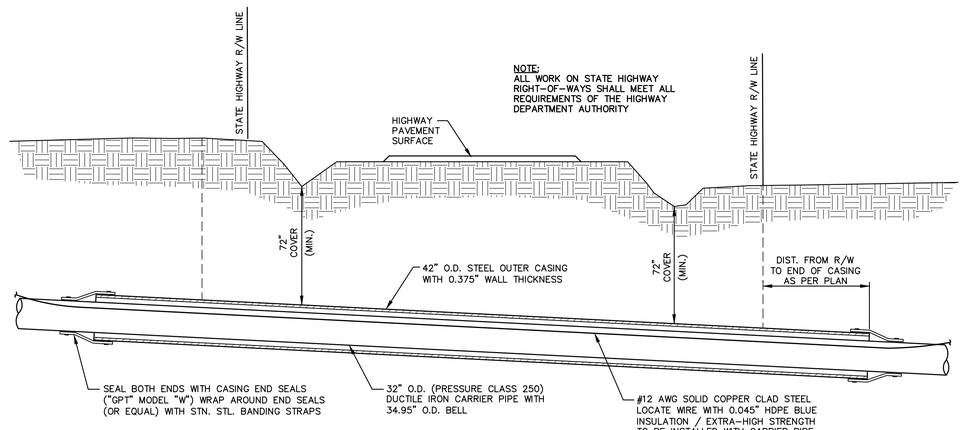
1. CASING SPACERS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED MANUFACTURER'S SPECIFICATIONS OR 6' WHICHEVER IS LESS.
2. DOUBLE SPACERS SHALL BE INSTALLED ONE FOOT FROM EACH END OF THE CASING.
3. ONE CASING SPACER MUST BE WITHIN 2' OF EACH SIDE OF A PIPE JOINT.
4. SPACERS SHALL HAVE A MINIMUM HEIGHT THAT EXCEEDS THE PIPE BELL HEIGHT.
5. CASING SPACERS SHALL BE RACI MODEL CI (OR EQUAL) POLYETHYLENE WITH STAINLESS STEEL BOLTS AND NUTS.



2 C20 **SECTION THRU BORED STEEL CASING PIPE**
NO SCALE



3 C20 **TYPICAL CREEK CROSSING - DIRECTIONAL BORE (NO CASING)**
NO SCALE



4 C20 **TYPICAL SECTION THRU STATE HIGHWAY BORE**
NO SCALE

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www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2021
MO: 2018004041
EXPIRES: DECEMBER 31, 2020
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

REVISIONS | DATE | NO.

CONTRACT "B"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE: ———
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C20
24 OF 27 SHEETS

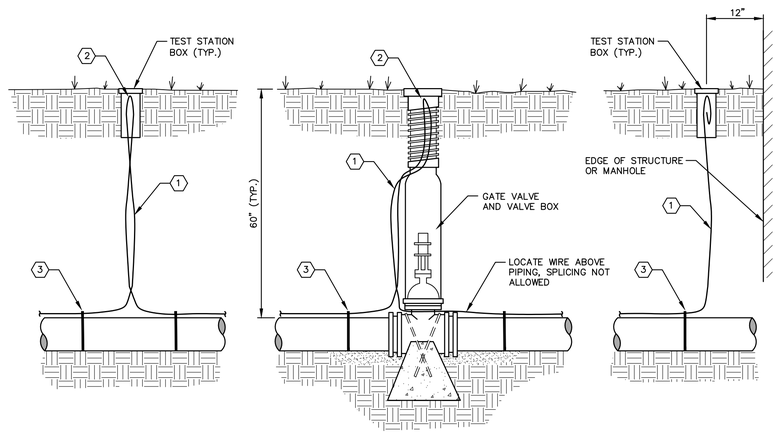
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PLOTTED: 1/29/2024 @ 11:14:02 AM BY elliott, seth

KEY NOTES:

1. #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE (TYPICAL)
2. DO NOT CUT LOCATE WIRE IN TEST STATION OR VALVE BOX IF WIRE CAN BE RUN CONTINUOUS, LEAVE 24" (MIN.) SLACK LOOP
3. SECURE LOCATE WIRE TO TOP OF PIPE WITH TAPE OR PLASTIC TIE NEAR ALL VALVES AND FITTINGS AND BELOW TEST STATIONS

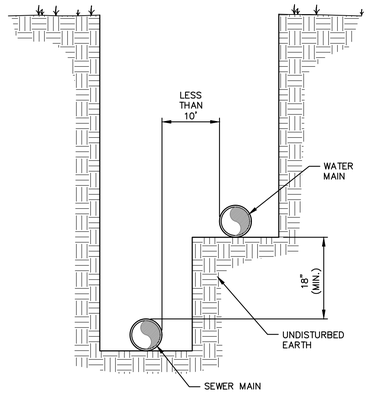
GENERAL NOTES:

1. LOCATE WIRE SHALL BE COPPER-CLAD STEEL
2. LOCATE WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL IN-LINE VALVE BOXES, BY FIRE HYDRANTS OR INSTALLED TEST STATIONS
3. LEAVE A 24" (MIN.) SLACK LOOP OF WIRE IN VALVE BOXES, TEST STATIONS OR WITHIN (2) FEET OF FIRE HYDRANTS
4. LOCATE WIRE SHALL BE INSTALLED OVER ALL WATERLINES, WATER SERVICE LINES AND SEWER FORCEMAINS
5. A CONDUCTIVITY TEST SHALL BE PERFORMED ON ALL LOCATE WIRES
6. TEST STATION BOX SHALL BE CAST IRON
7. LOCATE WIRE CONNECTION SHALL BE MADE WITH A DRYCONN DIRECT BURY LUG

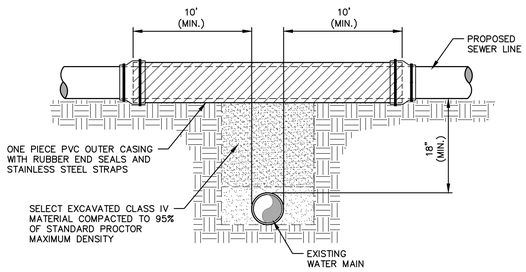


1 C21 TYPICAL LOCATE WIRE DETAILS
NO SCALE

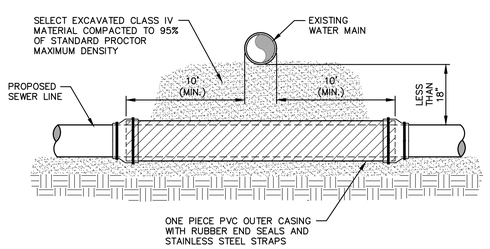
NOTE:
SHOULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF 10 FEET, A SEWER MAY BE CLOSER THAN 10 FEET TO A WATER MAIN PROVIDED THAT THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.



2 C21 WATER AND SEWER MAINS HORIZONTAL AND VERTICAL SEPARATION DETAIL
NO SCALE



3 C21 PROPOSED SEWER LINE CROSSING ABOVE EXISTING WATER MAIN
NO SCALE



4 C21 PROPOSED SEWER LINE CROSSING BELOW EXISTING WATER MAIN
NO SCALE

GENERAL NOTES:

41-2.01B HORIZONTAL SEPARATION – WATER MAINS AND SEWERS

(1) WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

(2) WATER MAINS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:

(A) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; AND

(B) THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND

(C) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

(3) WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

41-2.01C VERTICAL SEPARATION – WATER MAINS AND SEWERS

(1) A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

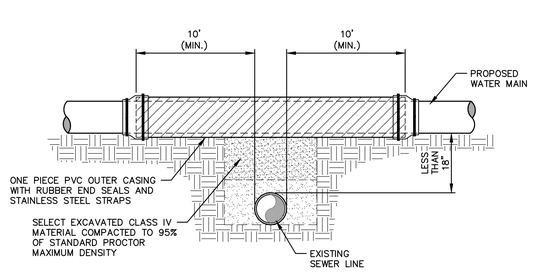
(2) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

(A) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (1) ABOVE; OR

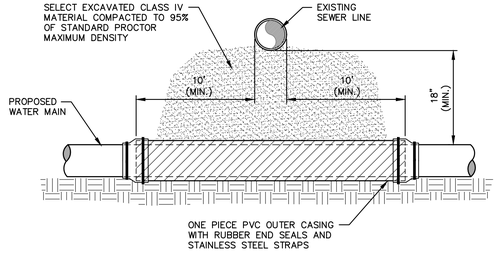
(B) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.

(3) A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN, AS SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER.

(4) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.



5 C21 PROPOSED WATER MAIN CROSSING ABOVE EXISTING SEWER LINE
NO SCALE



6 C21 PROPOSED WATER MAIN CROSSING BELOW EXISTING SEWER LINE
NO SCALE

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
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035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

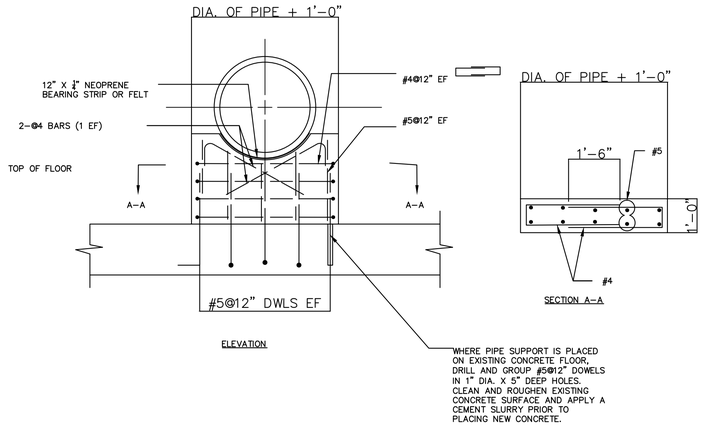
REVISIONS | DATE | NO.

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C21
25 OF 27 SHEETS

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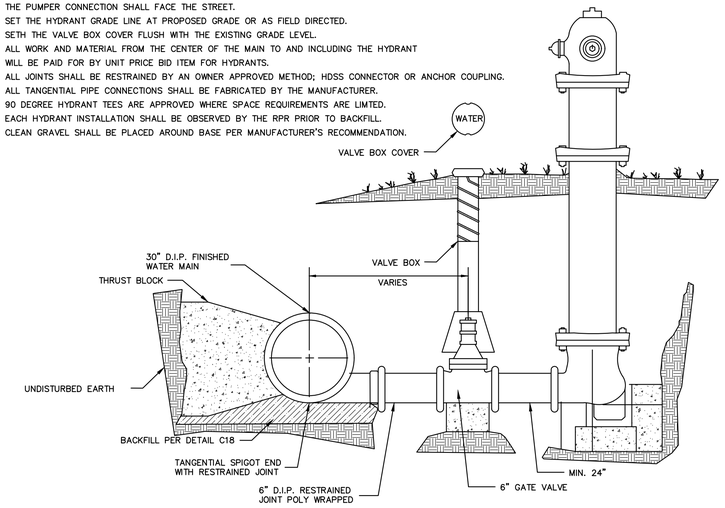


1 C22 CONCRETE SADDLE

NO SCALE

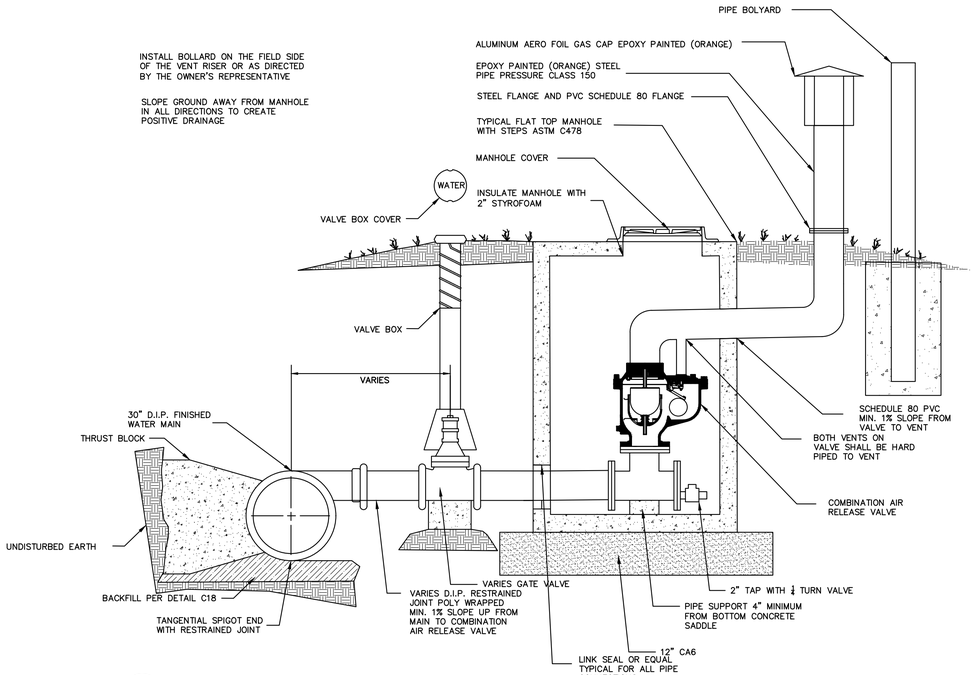
NOTES:

1. THE PUMPER CONNECTION SHALL FACE THE STREET.
2. SET THE HYDRANT GRADE LINE AT PROPOSED GRADE OR AS FIELD DIRECTED.
3. SETH THE VALVE BOX COVER FLUSH WITH THE EXISTING GRADE LEVEL.
4. ALL WORK AND MATERIAL FROM THE CENTER OF THE MAIN TO AND INCLUDING THE HYDRANT WILL BE PAID FOR BY UNIT PRICE BID ITEM FOR HYDRANTS.
5. ALL JOINTS SHALL BE RESTRAINED BY AN OWNER APPROVED METHOD; HDSS CONNECTOR OR ANCHOR COUPLING.
6. ALL TANGENTIAL PIPE CONNECTIONS SHALL BE FABRICATED BY THE MANUFACTURER.
7. 90 DEGREE HYDRANT TEES ARE APPROVED WHERE SPACE REQUIREMENTS ARE LIMTED.
8. EACH HYDRANT INSTALLATION SHALL BE OBSERVED BY THE RPR PRIOR TO BACKFILL.
9. CLEAN GRAVEL SHALL BE PLACED AROUND BASE PER MANUFACTURER'S RECOMMENDATION.



2 C22 BLOW-OFF HYDRANT DETAIL

NO SCALE



3 C22 COMBINATION AIR RELEASE/VACUUM VALVE DETAIL

NO SCALE

MECO-HENEGHAN ENGINEERS, LLC
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035.003949
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MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE

HORIZONTAL SCALE: AS SHOWN

VERTICAL SCALE: ———

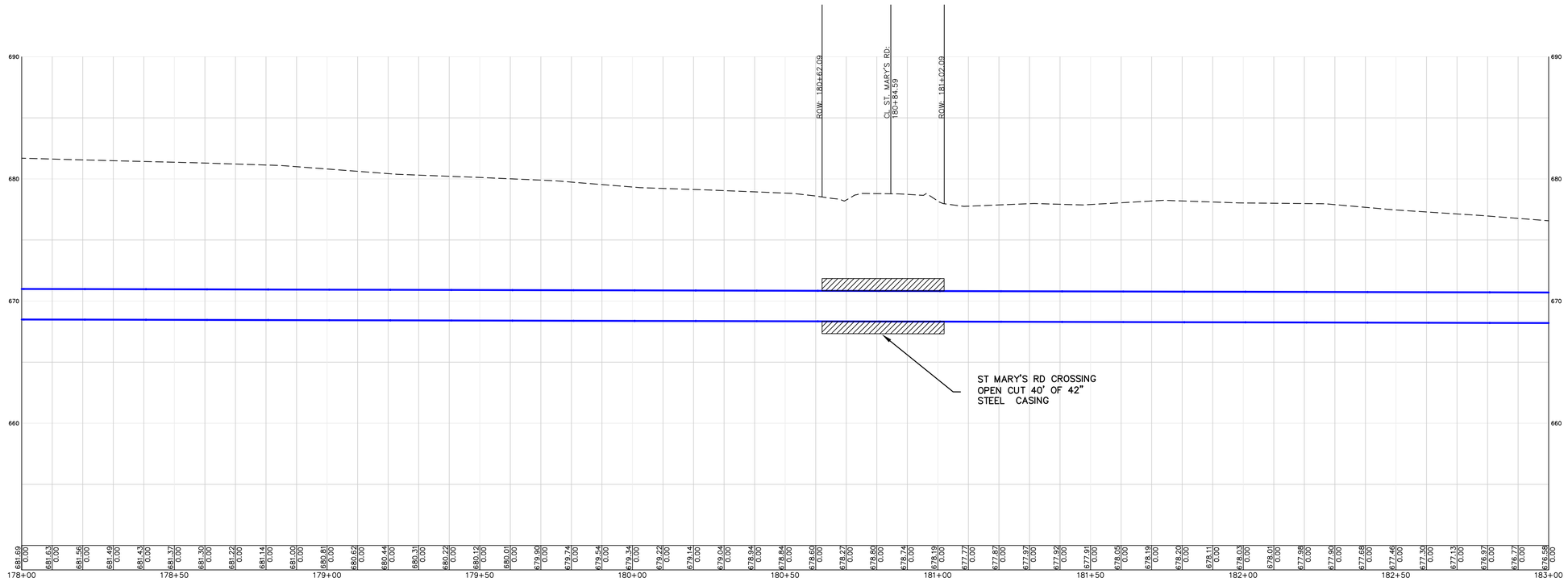
PROJECT NO. 71000-400

DATE: 1/29/24

SHEET NO. C22

26 OF 27 SHEETS

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Finished Water Main

MECO-HENEGHAN ENGINEERS, LLC

www.meco-heneghan.com

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IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024

400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	CP1

27 OF 27 SHEETS

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CONSTRUCTION PLANS FOR

CONTRACT "F"

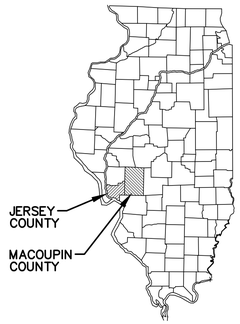
FINISHED WATER TRANSMISSION MAIN

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY

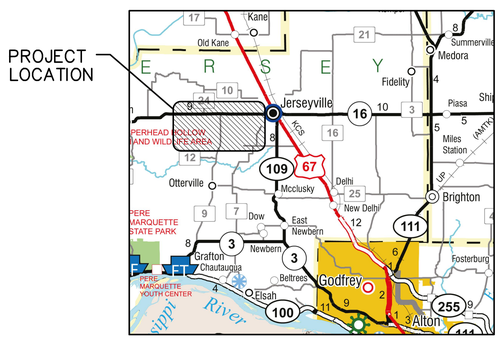
JERSEY & MACOUPIN COUNTIES, ILLINOIS

2024

SET NO. _____



STATE OF ILLINOIS



VICINITY MAP



PROJECT LOCATION PLAN

PROJECT CONTACT INFORMATION

SETH ELLIOTT
OFFICE PHONE: (618) 498-6418
EMAIL: swelliott@heneghanassoc.com

UTILITY PROVIDER INFORMATION

JERSEY COUNTY RURAL WATER COMPANY
MJM ELECTRIC CO-OPERATIVE

IARWC BOARD MEMBERS

JERSEY COUNTY RURAL WATER:	ALLEN DAVENPORT
BUNKER HILL:	JOHN CHAPMAN
DORCHESTER:	SUE CAMPBELL
CARLINVILLE:	DAN HELD
FIELDON:	GENE ISRINGHAUSEN
CENTRAL MACOUPIN COUNTY RURAL WATER DISTRICT:	RICH McCLAIN
FOSTERBURG WATER DISTRICT:	STEVE RUPPERT

PLANS ACCEPTED BY:

BOARD PRESIDENT: ALLEN DAVENPORT

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER EXISTING UNDER THE LAWS OF THE STATE OF ILLINOIS.

SETH W. ELLIOTT, P.E. #62788

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
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MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

REVISIONS	DATE	NO.

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
COVER SHEET / LOCATION MAP

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	N/A
VERTICAL SCALE:	N/A
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	G1

1 OF 22 SHEETS

PATH=s: \shared-pim\projects\71000-400\cad\contract f dwgs\cover sheet.dwg
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SURVEY ABBREVIATIONS

P.I.	POINT OF INTERSECTION
P.O.T.	POINT ON TANGENT
T.P.	TURNING POINT
I.P.	IRON PIPE
B.M.	BENCH MARK
T.B.M.	TEMPORARY BENCH MARK
ELEV.	ELEVATION
INV. ELEV.	INVERT ELEVATION
FL	FLOW LINE
M.D.	MEASURE DOWN
P.T.	POINT OF TANGENT
P.C.	POINT OF CURVE
V.C.	VERTICAL CURVE
M.O.	MID ORDINATE
STA.	STATION
X-ING	CROSSING
LT. AH.	LEFT AHEAD
LT.	LEFT
RT. AH.	RIGHT AHEAD
RT.	RIGHT
C.M.P.	CORRUGATED METAL PIPE
V.C.P.	VITRIFIED CLAY PIPE
R.C.P.	REINFORCED CONCRETE PIPE
C.I.P.	CAST IRON PIPE
M.J.	MECHANICAL JOINT
D	DEGREE OF CURVE
T	TANGENT
L	LENGTH
R	RADIUS
E	EXTERNAL
S.J.	SUPER ELEVATION

LEGEND

X X	EXISTING FENCE LINE
	EXISTING ASPHALT
	EXISTING GRAVEL
	EXISTING FLOWLINE
G	EXISTING GAS
S	EXISTING SEWER
OE	EXISTING OVERHEAD ELECTRIC
UT	EXISTING UNDERGROUND TELEPHONE
FO	EXISTING UNDERGROUND FIBRE-OPTIC
4w	EXISTING 4" WATERLINE
6w	EXISTING 6" WATERLINE
	EXISTING WATER GATE VALVE
W	EXISTING WATER SERVICE METER
	EXISTING FLUSH HYDRANT
	TELEPHONE PEDESTAL
	POWER POLE
	GUY WIRE
PL	PROPERTY LINE
R/W	RIGHT-OF-WAY LINE
	RIGHT-OF-WAY MARKER
	TEST HOLE LOCATION
	IRON PIN (FOUND)
	STONE
	FENCE CORNER POST
0+00 2+50 5+00 7+50 10+00	SURVEY LINE
	GUARD RAIL
TOP TOE	LEVEE, EARTH DAM, SLOPE
	BUILDING
	TREE
	TREE LINE
	PERMANENT UTILITY EASEMENT
	PROPOSED RAW WATERLINE
	PROPOSED TEE
	PROPOSED 90° BEND
	PROPOSED 45° BEND
	PROPOSED 22.5° BEND
	PROPOSED GATE VALVE
	PROPOSED REDUCER
	PROPOSED FLUSH HYDRANT
FDGB	FULL DEPTH GRANULAR BACKFILL

Know what's **below**
Call before you dig

BENCH MARK INFORMATION

BM#1 – CHISELED "+" ON TOP OF CONCRETE SLAB OF OLD WELL, 40'± SOUTH FROM THE SW CORNER OF THE OLD BARN ALONG THE WEST SIDE STATE RTE. 100
(SURVEY PT. #2023)
ELEVATION – 437.48

N – 887176.7316
E – 2184709.965

BM#2 – 5/8" REBAR (SET) NEAR THE SE PROPERTY CORNER OF WILLIAM PHILIPP PROPERTY
(SURVEY PT. #6067)
ELEVATION – 690.85

N – 889556.8029
E – 2192697.452

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE GENERAL CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE DOES NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTIONS SITE.

UNDERGROUND UTILITY NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH IS AT PRESENT NOT KNOWN. VERIFICATION OF THE LOCATIONS OF UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.

EXISTING STRUCTURE NOTE

DO NOT SCALE DIMENSIONS FROM DRAWINGS FOR CONSTRUCTION PROPOSES. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS.

EROSION CONTROL NOTE

APPROPRIATE EROSION AND SILTATION CONTROLS MUST BE USED AND ALL EXPOSED SOIL AND OTHER FILLS MUST BE PERMANENTLY STABILIZED AT THE EARLIEST PRACTICAL DATE. ANY TYPE OF LAND DISTURBANCE PERMIT THAT MAY BE REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES. ALL CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES AND/OR LOCAL GOVERNING AUTHORITY.

SUMMARY OF QUANTITIES

PROPOSED QUANTITIES			
ITEM #	QUANTITY	UNIT	ITEM DESCRIPTION
1	0	LF	30" D.I. PIPE RAW WATERLINE
2	0	EA	30" X 30" X 12" D.I. WYE WITH THRUST BLOCK
3	0	EA	30" X 30" X 30" D.I. WYE WITH THRUST BLOCK
4	0	EA	30" - 45 DEGREE BEND WITH THRUST BLOCK
5	0	EA	30" - 22.5 DEGREE BEND WITH THRUST BLOCK
6	0	EA	30" - 11.25 DEGREE VERTICAL BEND WITH THRUST BLOCK
7	0	EA	30" D.I. CAP WITH THRUST BLOCK
8	0	EA	30" GATE VALVE WITH VALVE BOX
9	0	LF	STATE HIGHWAY 100 CROSSING - JACK AND BORE 42" STEEL OUTER CASING
10	0	LF	STATE HIGHWAY 16 CROSSING - JACK AND BORE 42" STEEL OUTER CASING
11	5	EA	DIRECTIONAL BORE 30" D.I. CARRIER PIPE - NO CASING (SEE BORE LOCATIONS LISTED BELOW)
12	0	LF	1.) NUTWOOD LEVEE DISTRICT LEVEE & CREEK CROSSING - SHEET C5
13	0	LF	2.) BRANCH CREEK CROSSING - SHEET C6
14	0	LF	3.) BLUFF BORE - SHEET C6 (FROM HIGHWAY 16 CROSSING TO TOP OF BLUFF)
15	0	LF	4.) DRAINAGE WAY / VALLEY CROSSING - SHEET C8
16	0	LF	5.) DRAINAGE WAY / VALLEY CROSSING - SHEET C9
17	1	LS	PIGGING STATION - SHEET C2 & SHEET C10
18	0	??	?
19	0	??	?
20	0	??	?
21	0	??	?
22	0	??	?
23	0	??	?
24	0	??	?

INDEX OF DRAWINGS

SHEET NUMBER	SHEET DESCRIPTION
G1	COVER SHEET / LOCATION MAP
G2	INDEX OF DRAWINGS / SUMMARY OF QUANTITIES / GENERAL NOTES / AND LEGENDS
G3	AERIAL PLAN SHEET INDEX MAP
G4	SAMPLE PLAN MAP
C1	WATERLINE AERIAL PLAN AND PROFILE
C2	WATERLINE AERIAL PLAN AND PROFILE
C3	WATERLINE AERIAL PLAN AND PROFILE
C4	WATERLINE AERIAL PLAN AND PROFILE
C5	WATERLINE AERIAL PLAN AND PROFILE
C6	WATERLINE AERIAL PLAN AND PROFILE
C7	WATERLINE AERIAL PLAN AND PROFILE
C8	WATERLINE AERIAL PLAN AND PROFILE
C9	WATERLINE AERIAL PLAN AND PROFILE
C10	WATERLINE AERIAL PLAN AND PROFILE
C11	WATERLINE AERIAL PLAN AND PROFILE
C12	DETAIL SHEET
C13	DETAIL SHEET
C14	DETAIL SHEET
C15	DETAIL SHEET
C15	DETAIL SHEET
CP1	ROAD CROSSING PROFILES
CP2	ROAD CROSSING PROFILES

GENERAL NOTES

1. HIGHWAY/STREET RIGHT OF WAY AND PROPERTY LINES HAVE BEEN PLOTTED FROM IRON PINS FOUND AND TAX MAP INFORMATION. THEIR LOCATIONS SHOULD BE CONSIDERED APPROX. AND ARE NOT INTENDED TO BE USED AS SURVEYED LINES.
2. THE ENGINEER/SURVEYOR HAS SET SURVEY CONTROL POINTS WITH COORDINATES FOR CONSTRUCTION CONTROL. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LEAVE THESE MARKERS UNDISTURBED.
3. ALL ROCK EXCAVATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND THERE SHALL BE NO DIRECT PAYMENT FOR THIS WORK.
4. ANY AND ALL EASEMENT RESTRICTIONS SHOWN ON PLANS TO BE CLOSELY FOLLOWED.
5. ANY AND ALL GRAVEL ROADWAYS AND DRIVES (OPEN-CUT) TO BE BACKFILLED WITH FULL DEPTH GRANULAR BACKFILL MATERIAL AND MAINTAINED THRU ENTIRE PROJECT.
6. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
7. ALL WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
8. ALL WATER MAINS SHALL BE SATISFACTORILY DISINFECTED PRIOR TO USE, AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM THE END OF THE NEW WATER MAIN AND AT LEAST ONE SET FROM EACH BRANCH. SATISFACTORY DISINFECTION SHALL BE DEMONSTRATED IN ACCORDANCE WITH THE REQUIREMENTS OF 35 ILL. ADM. CODE 652.203.

HAZARDOUS SUBSTANCE NOTES

1. SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
2. ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com

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035.003949
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MO: 2018004041
EXPIRES: DECEMBER 31, 2020

400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN - INDEX OF DRAWINGS / SUMMARY OF QUANTITIES / GENERAL NOTES / AND LEGENDS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE:
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 12/18/2023
SHEET NO. G2

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CONTRACT "F"
FINISHED WATER TRANSMISSION
MAIN SAMPLE PLAN MAP

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE

HORIZONTAL SCALE: 1"=1000'

VERTICAL SCALE:

PROJECT NO. 71000-400

DATE: 1/3/2023

SHEET NO. G4

4 OF 19 SHEETS

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NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION
MAIN AERIAL PLAN SHEET INDEX
MAP

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE

HORIZONTAL SCALE: 1"=1000'

VERTICAL SCALE:

PROJECT NO. 71000-400

DATE: 1/3/2023

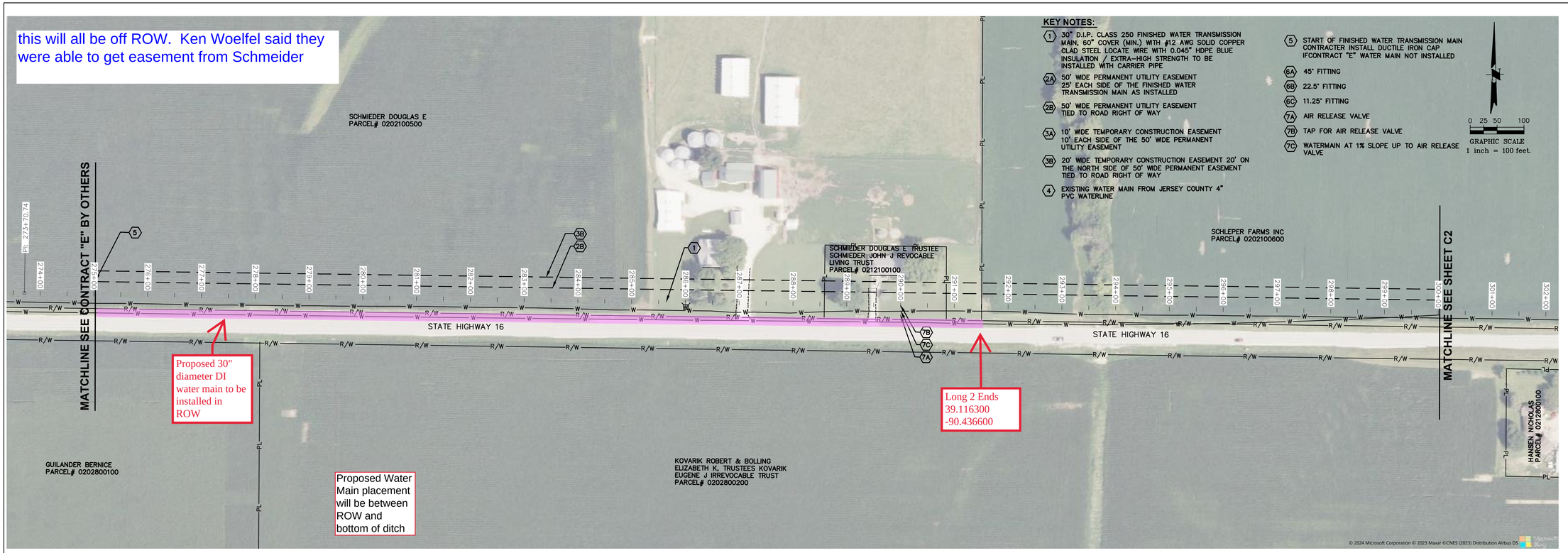
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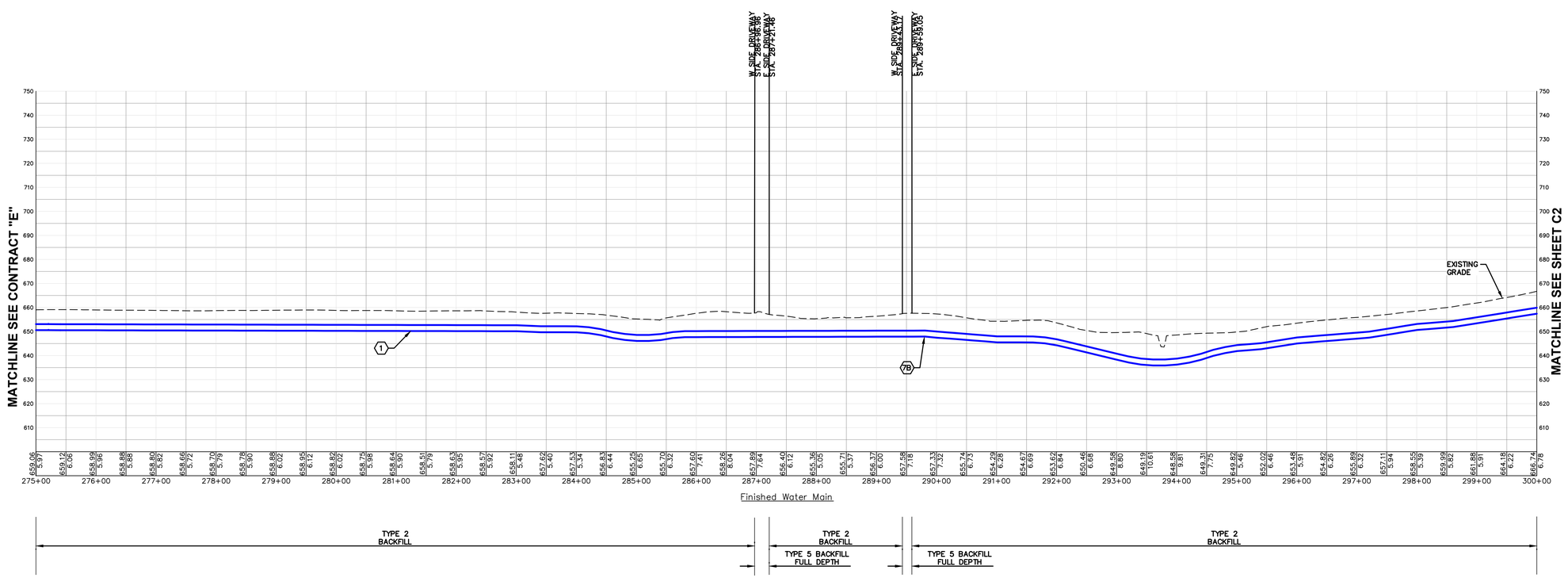
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this will all be off ROW. Ken Woelfel said they were able to get easement from Schmeider





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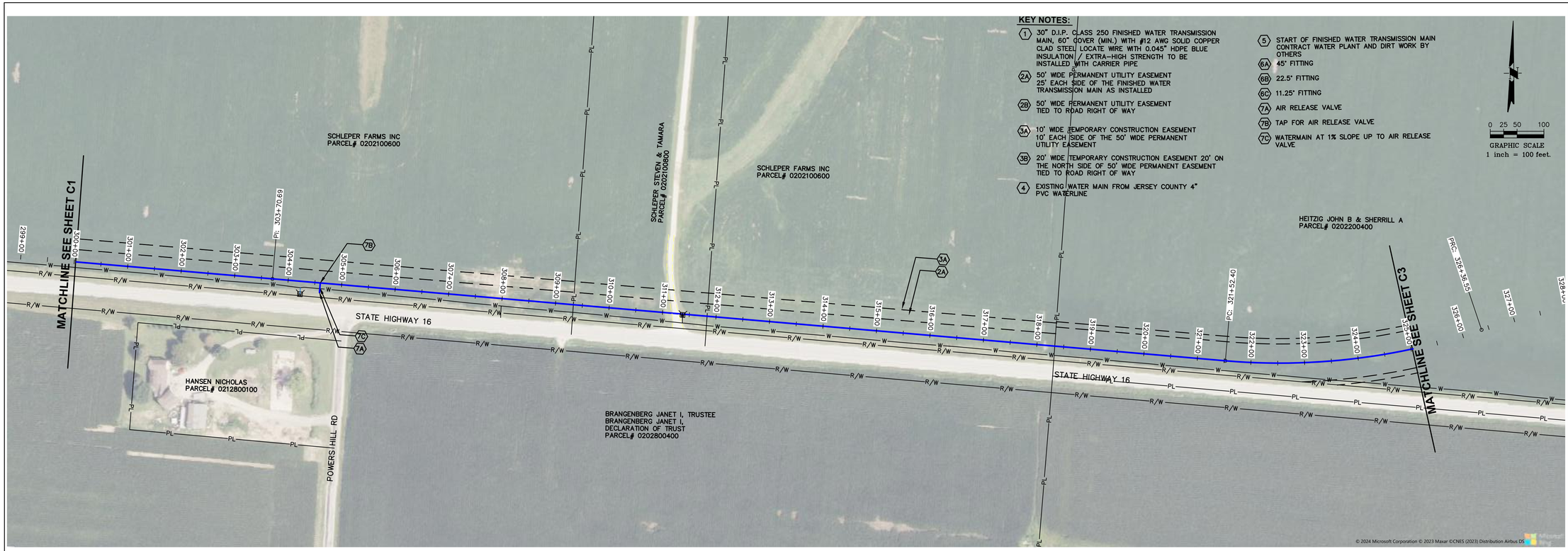
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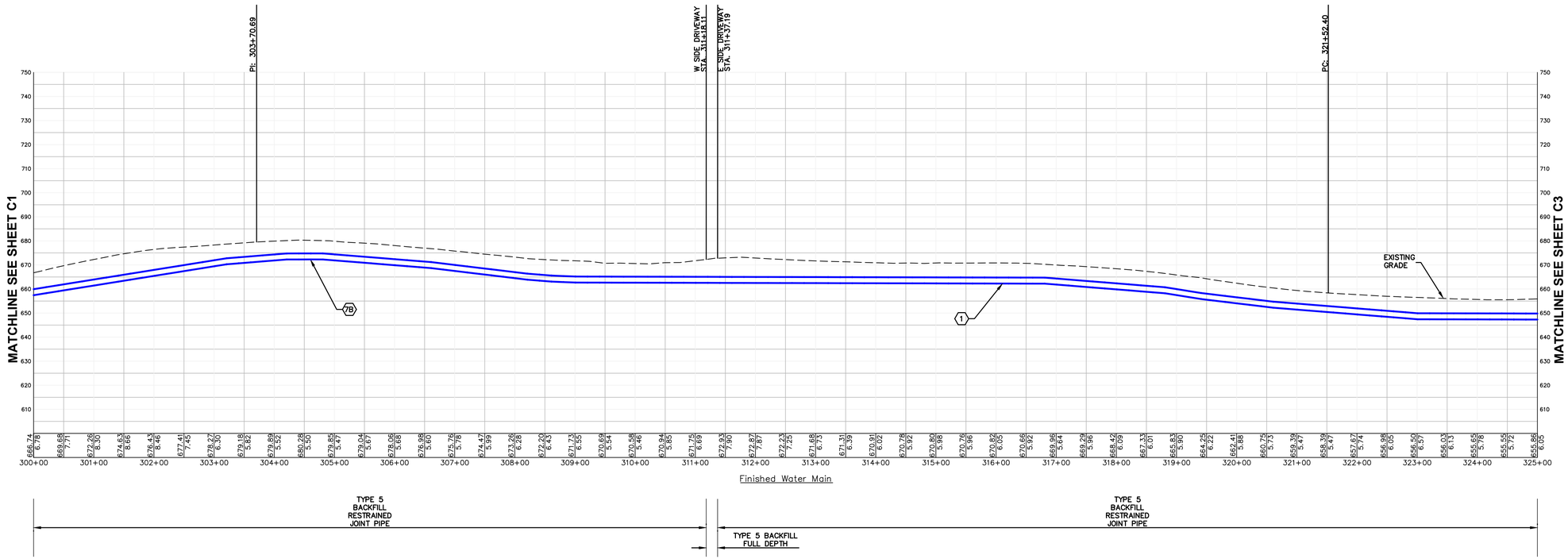
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C1

5 OF 22 SHEETS





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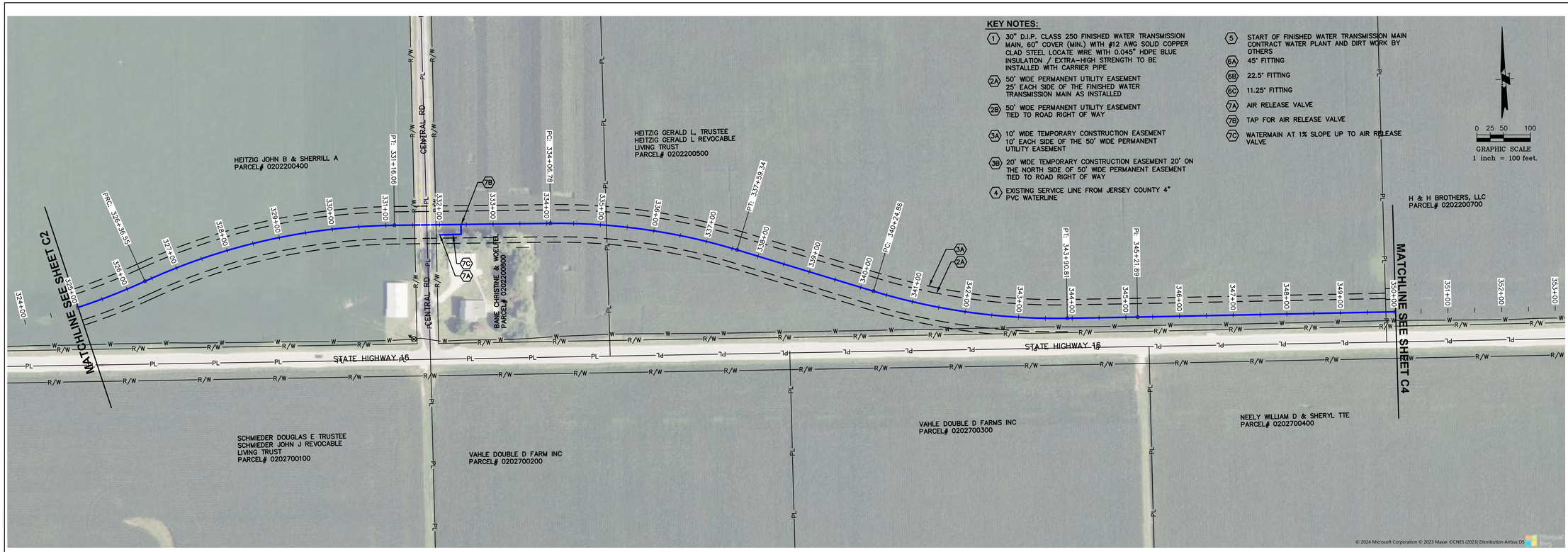
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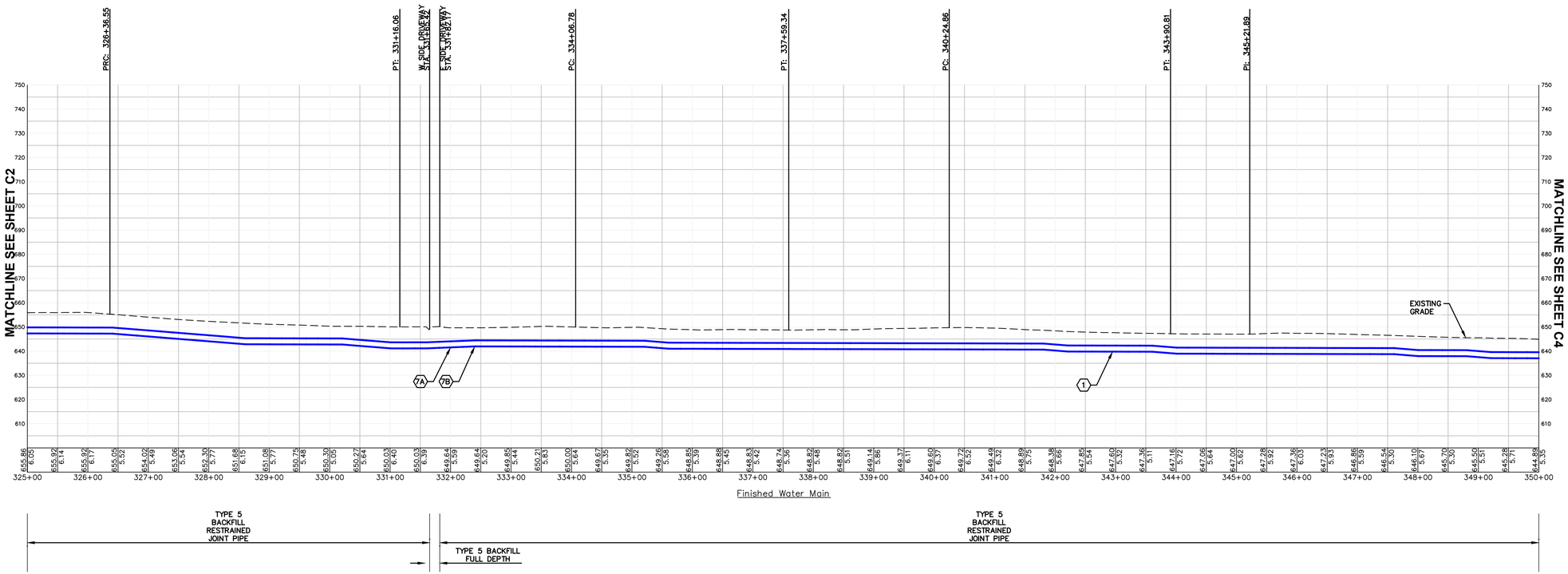
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FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
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SHEET NO. C2
6 OF 22 SHEETS

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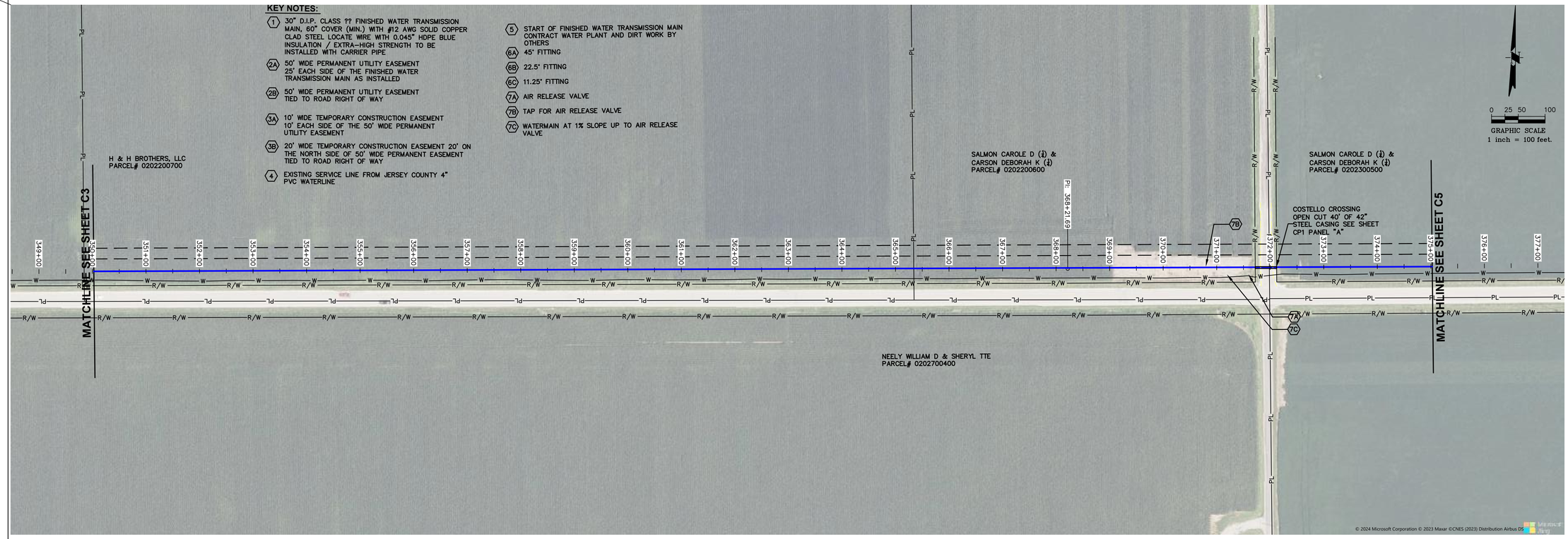
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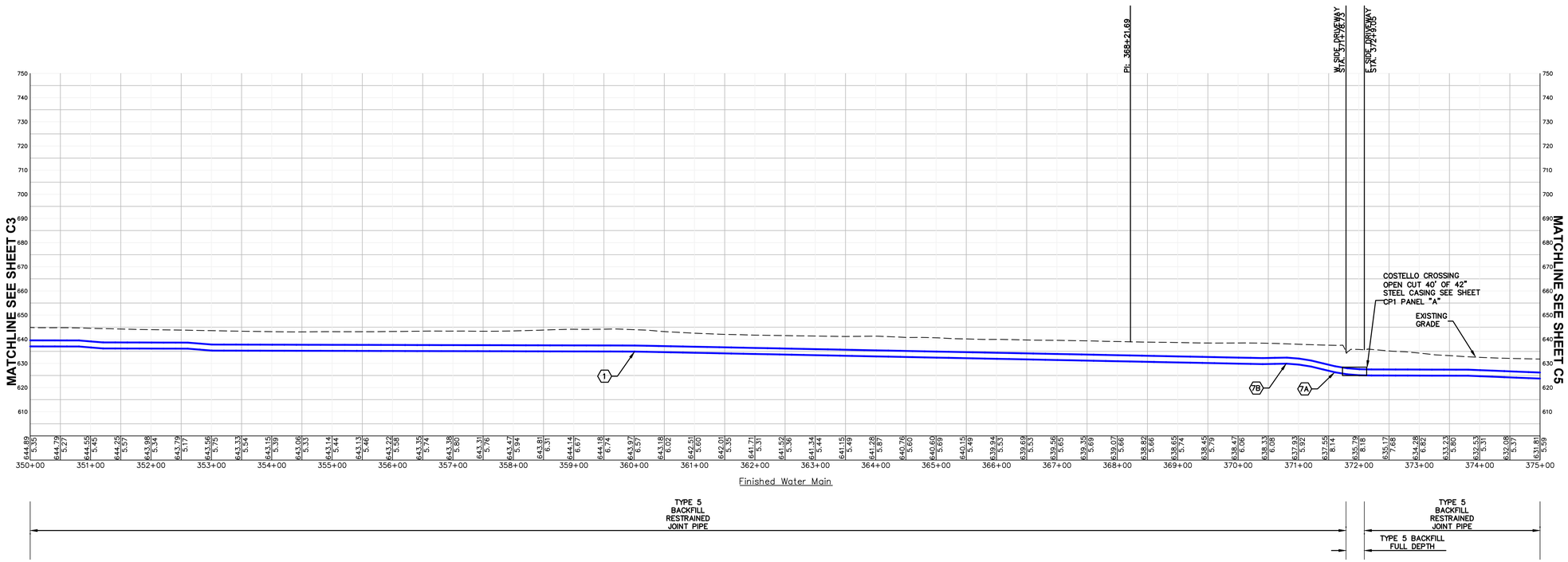
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7 OF 22 SHEETS

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KEY NOTES:

1. 30" D.I.P. CLASS ?? FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING SERVICE LINE FROM JERSEY COUNTY 4" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE





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CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

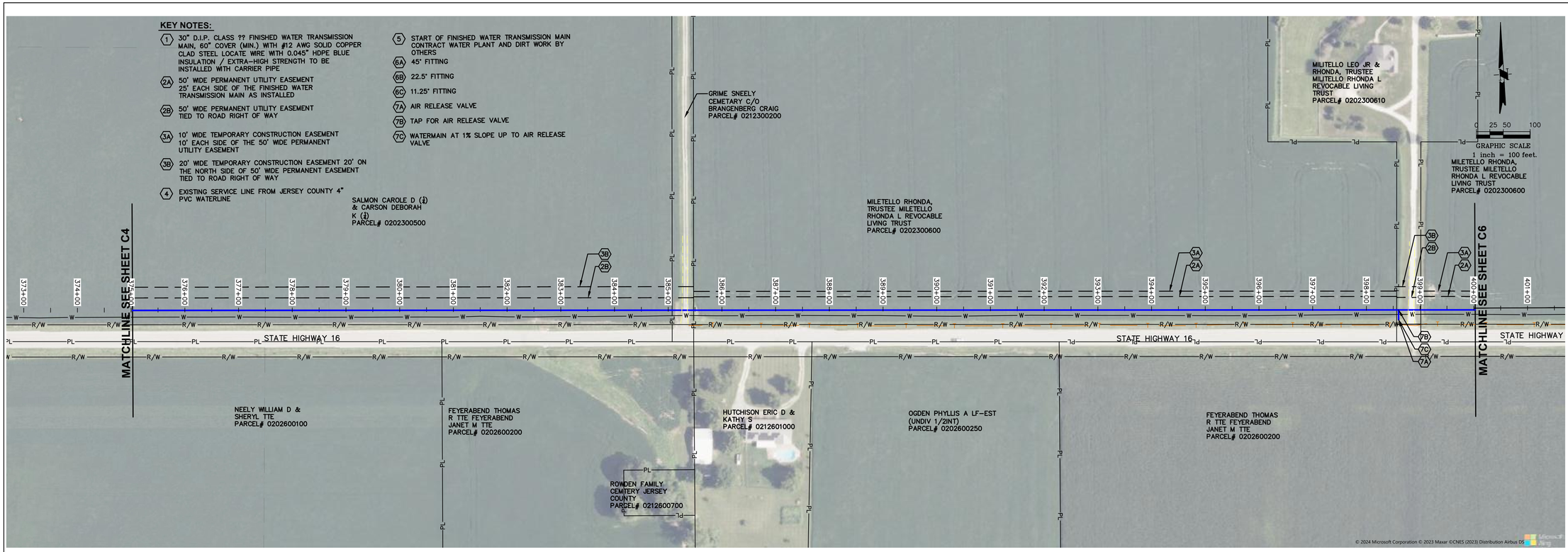
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DATE: 1/29/24
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8 OF 22 SHEETS

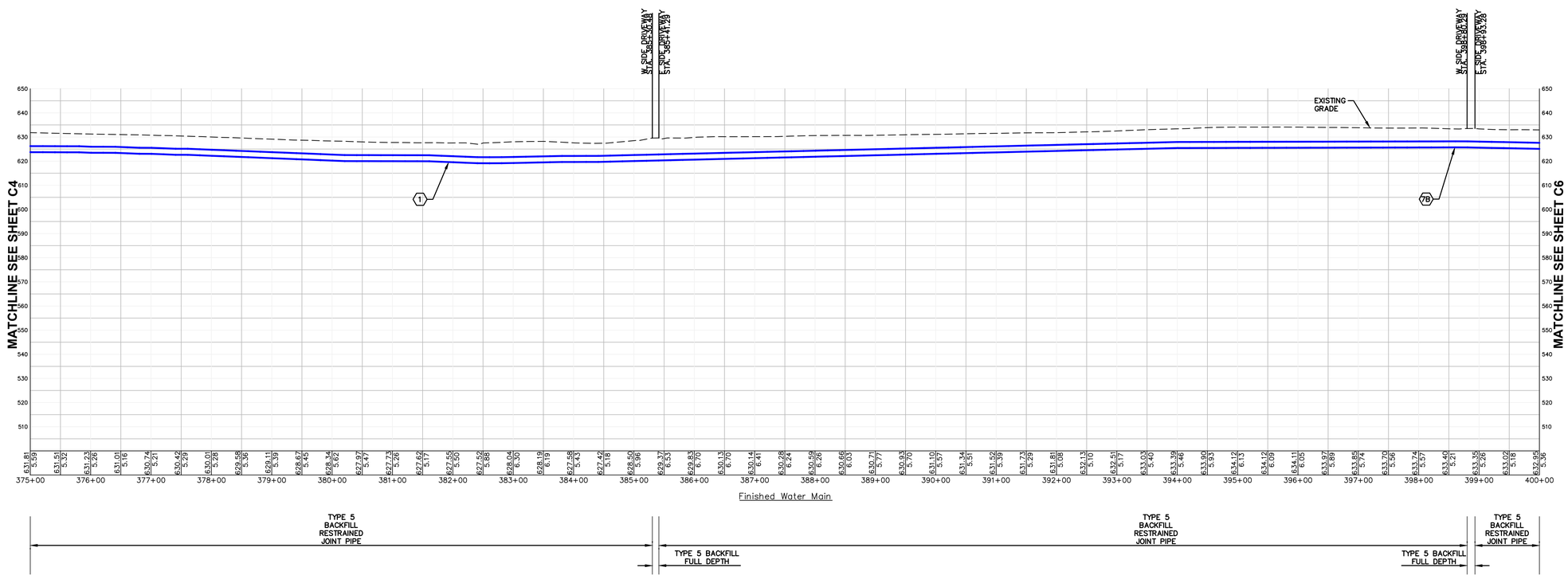
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KEY NOTES:

1. 30" D.I.P. CLASS ?? FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
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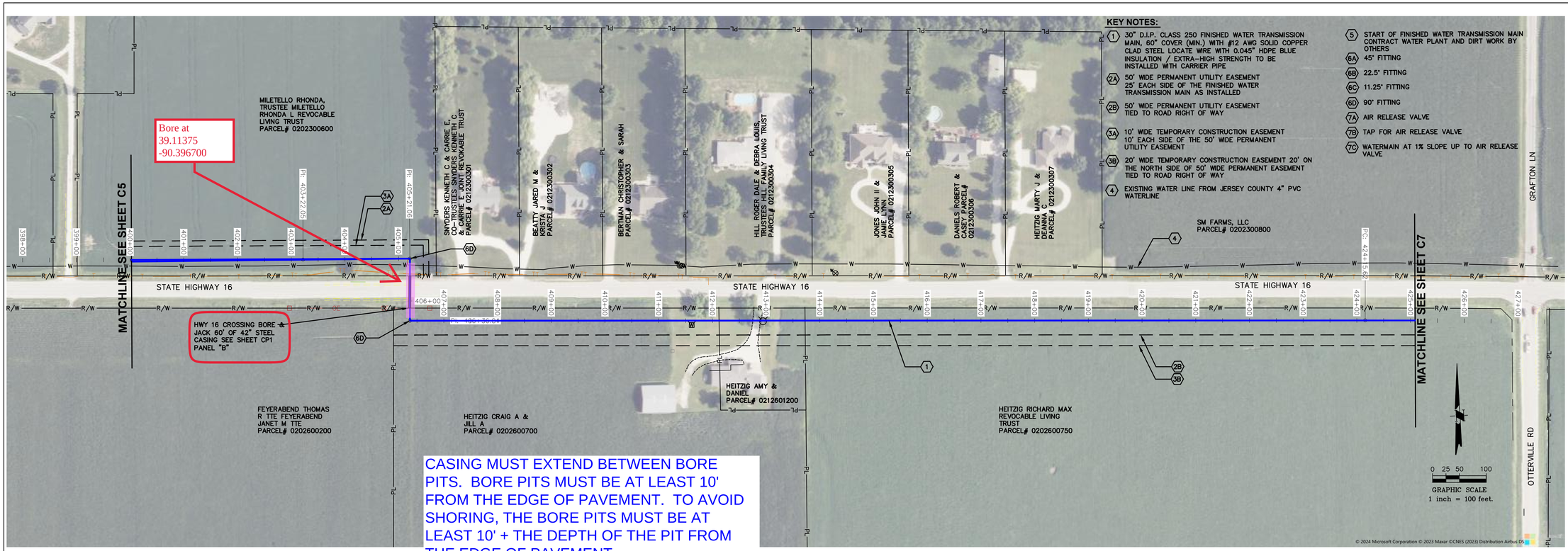
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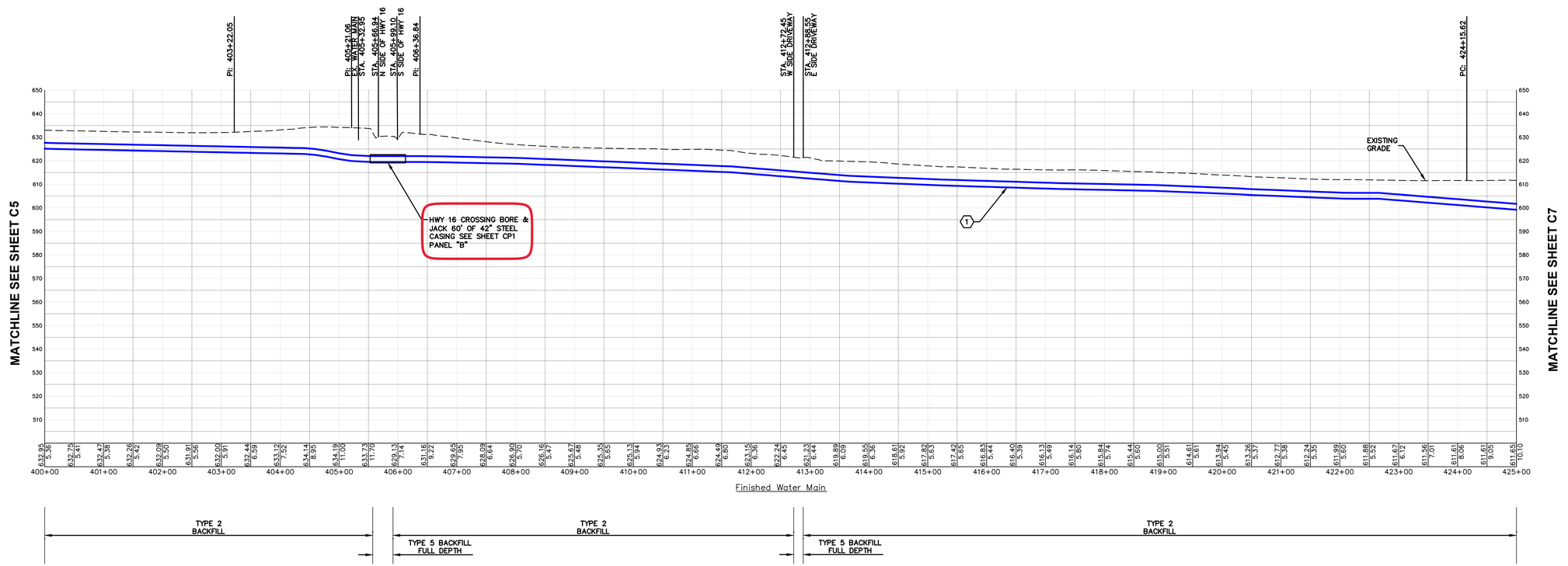
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JERSEY & MACOUPIN COUNTIES, ILLINOIS

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PROJECT NO. 71000-400
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9 OF 22 SHEETS

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CASING MUST EXTEND BETWEEN BORE PITS. BORE PITS MUST BE AT LEAST 10' FROM THE EDGE OF PAVEMENT. TO AVOID SHORING, THE BORE PITS MUST BE AT LEAST 10' + THE DEPTH OF THE PIT FROM THE EDGE OF PAVEMENT



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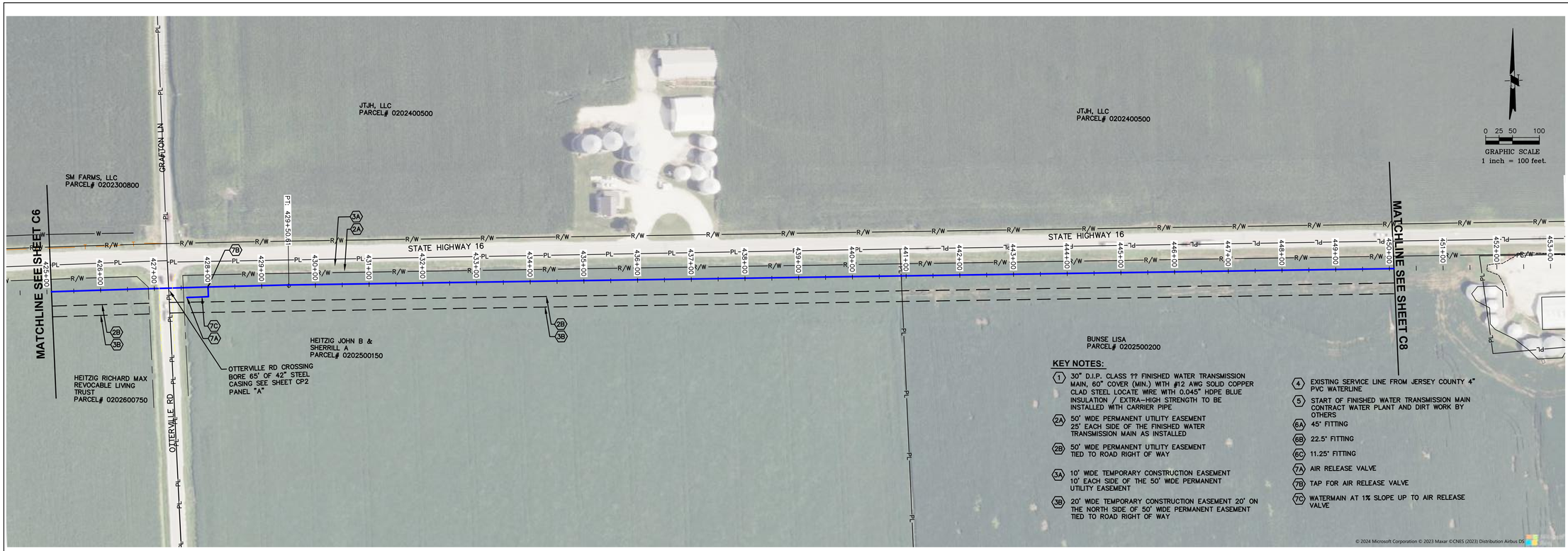
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CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
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ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

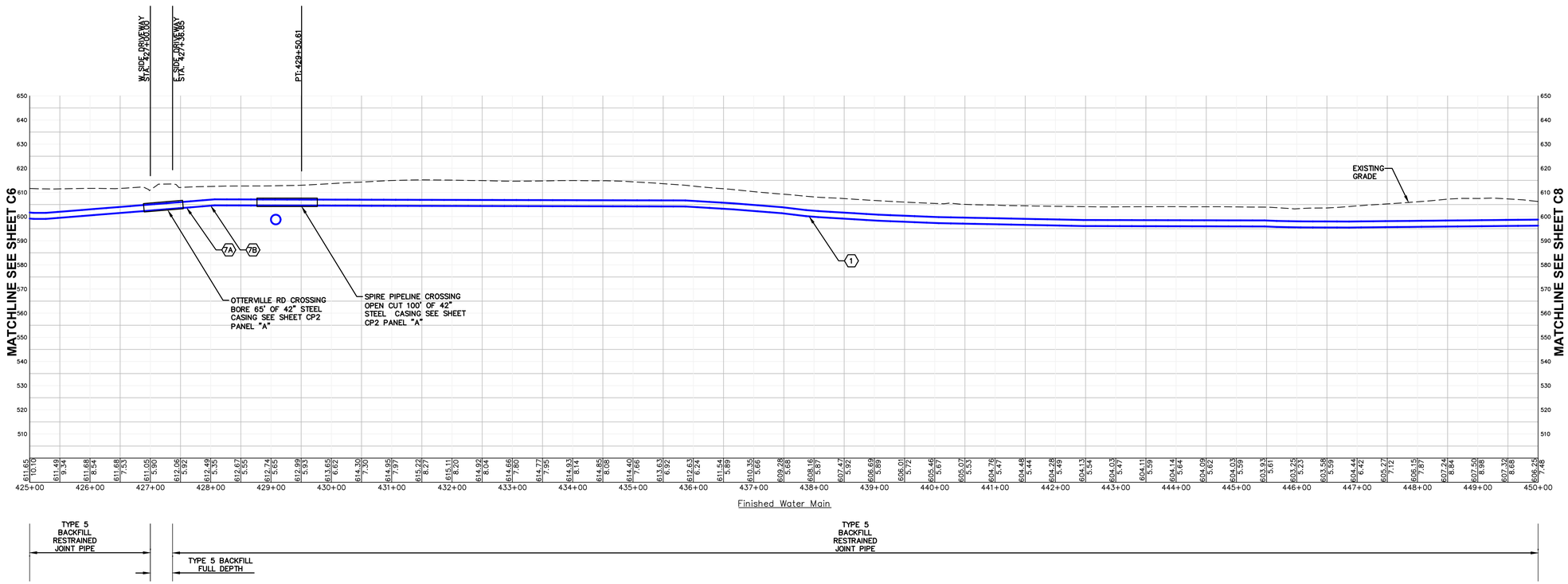
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10 OF 22 SHEETS

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KEY NOTES:

1. 30" D.I.P. CLASS ?? FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
3B. 20' WIDE TEMPORARY CONSTRUCTION EASEMENT 20' ON THE NORTH SIDE OF 50' WIDE PERMANENT EASEMENT TIED TO ROAD RIGHT OF WAY
4. EXISTING SERVICE LINE FROM JERSEY COUNTY 4" PVC WATERLINE
5. START OF FINISHED WATER TRANSMISSION MAIN CONTRACT WATER PLANT AND DIRT WORK BY OTHERS
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE



MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

REVISIONS | DATE | NO.

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C7
11 OF 22 SHEETS

PATH=s:\shared-sim\projects\71000-400\cad\contract f dwgs\finished sheets 12-22.dwg
PLOTTED: 1/31/2024 @ 3:14:20 PM, BY: elliott, seth

McLaren, Tara A

From: Elliott, Seth <swelliott@heneghanassoc.com>
Sent: Monday, July 29, 2024 3:34 PM
To: McLaren, Tara A; Rebecca Woelfel
Cc: Woelfel, Kenneth
Subject: [External] RE: 34683 otterville road RE: MHE - IARWC Ph. 1,
Attachments: Otterville Profile crossing Idot.pdf; 71000-400-00001-PL-02.pdf

Tara,
We have received the files, but they are in Microstation and we are drawing in AutoCAD. We cannot easily recreate the profile. Here is a profile with the existing surface. We are planning on 5 feet of cover from top of casing to bottom of existing ditch, see CP-2 or last page of 71000-400-00001-PL-02.pdf. Also see IDOT plans station 0+50 attached. We are close to that profile to compare the 2 profiles.

Sincerely,

Heneghan and Associates, PC
Seth Elliott
Project Manager
Office: 618.498.6418
Mobile: 618.520.3542
Fax: 618.498.6410
1004 State Highway 16 Jerseyville IL 62052
www.haengr.com

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From: McLaren, Tara A <Tara.McLaren@illinois.gov>
Sent: Monday, July 29, 2024 2:54 PM
To: Rebecca Woelfel <rmwoelfel@heneghanassoc.com>
Cc: Elliott, Seth <swelliott@heneghanassoc.com>; Woelfel, Kenneth <kewoelfel@heneghanassoc.com>
Subject: 34683 otterville road RE: MHE - IARWC Ph. 1,

Warning: This email originated from outside of the system. **Do not click links or attachments** in this email unless you recognize the sender and know the contents are safe.

Can you give me a profile in relation to the new road?

I saw an email this morning that our CAD guy sent files to Madison Murphy.

Tara McLaren
Utility Permits and Agreements
(618)346-3203
tara.mclaren@illinois.gov

From: Rebecca Woelfel <rmwoelfel@heneghanassoc.com>
Sent: Tuesday, July 23, 2024 3:02 PM
To: McLaren, Tara A <Tara.McLaren@illinois.gov>
Cc: Elliott, Seth <swelliott@heneghanassoc.com>; Woelfel, Kenneth <kewoelfel@heneghanassoc.com>
Subject: [External] RE: MHE - IARWC Ph. 1,

Tara-

Attached is the Otterville crossing with the IDOT plans as an overlay. If you have any questions let us know.

Thanks!

Becky Woelfel
Heneghan Associates, P.C.

From: McLaren, Tara A <Tara.McLaren@illinois.gov>
Sent: Tuesday, July 23, 2024 2:30 PM
To: Woelfel, Kenneth <kewoelfel@heneghanassoc.com>
Cc: Rebecca Woelfel <rmwoelfel@heneghanassoc.com>; Elliott, Seth <swelliott@heneghanassoc.com>
Subject: RE: MHE - IARWC Ph. 1,

Warning: This email originated from outside of the system. **Do not click links or attachments** in this email unless you recognize the sender and know the contents are safe.

I have been waiting for something for the Otterville Road crossing. We have a contract coming up on September 20, 2024 letting that if fixing the geometry of the intersection.
Last week I had a request from Madison Murphy for CAD files for the project. I forwarded the request to our CAD guy and then went on vaca for 3 days. Today I sent the request to the design engineer.

When I get the Otterville road crossing I can get the permit approved.

Tara McLaren
Utility Permits and Agreements
(618)346-3203
tara.mclaren@illinois.gov

From: Woelfel, Kenneth <kewoelfel@heneghanassoc.com>
Sent: Tuesday, July 23, 2024 8:59 AM
To: McLaren, Tara A <Tara.McLaren@illinois.gov>
Cc: Rebecca Woelfel <rmwoelfel@heneghanassoc.com>; Elliott, Seth <swelliott@heneghanassoc.com>
Subject: [External] RE: MHE - IARWC Ph. 1,

Hi Tera,
Just checking in for an update on the permit referenced below.
Thanks

Heneghan and Associates, PC

Kenny Woelfel
Engineering Technician
Office: 618.498.6418
Direct: 618.556.3088
Fax: 618-498-6410
1004 State Highway 16 Jerseyville IL 62052
www.haengr.com

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From: Woelfel, Kenneth
Sent: Friday, July 12, 2024 10:39 AM
To: McLaren, Tara A <Tara.McLaren@illinois.gov>
Cc: Rebecca Woelfel <rmwoelfel@heneghanassoc.com>; Elliott, Seth <swelliott@heneghanassoc.com>
Subject: MHE - IARWC Ph. 1,

Tara,
We were able to get an easement on the Schmieder property along route 16. Therefore, we can remove the area between lat long 39.116247 -90.448403 on plan sheet Contract "E" C17 and lat long 39.116247 -90.448403 on plan sheet Contract "F" C1

Heneghan and Associates, PC

Kenny Woelfel
Engineering Technician
Office: 618.498.6418
Direct: 618.556.3088
Fax: 618-498-6410
1004 State Highway 16 Jerseyville IL 62052
www.haengr.com

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GRAFTON LN

EX EOP

PROPOSED IDOT EOP

EX ROW

PROPOSED IDOT ROW
AFTER IDOT IMPROVEMENTS

PT: 1154+50.61

R/W

1155+00

1156+00

2.88'

PROPOSED 30" WATER MAIN

EX SPIRE GAS LINE

PROPOSED LIMITS OF CONSTRUCTION

PROPOSED ROW

CENTER LINE

OTTERVILLE RD

PL

IL RTE 16

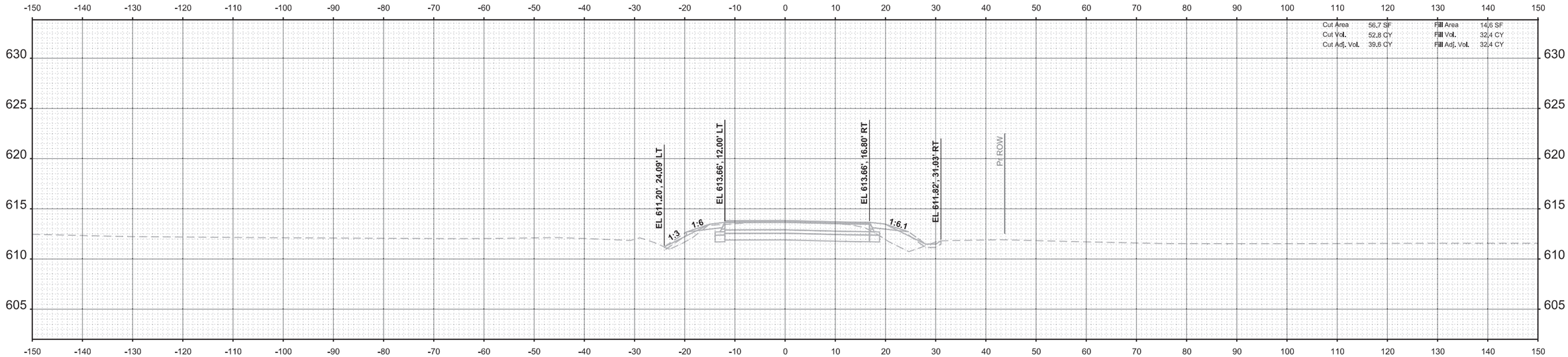
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MATCHLINE STA. 1+00.00

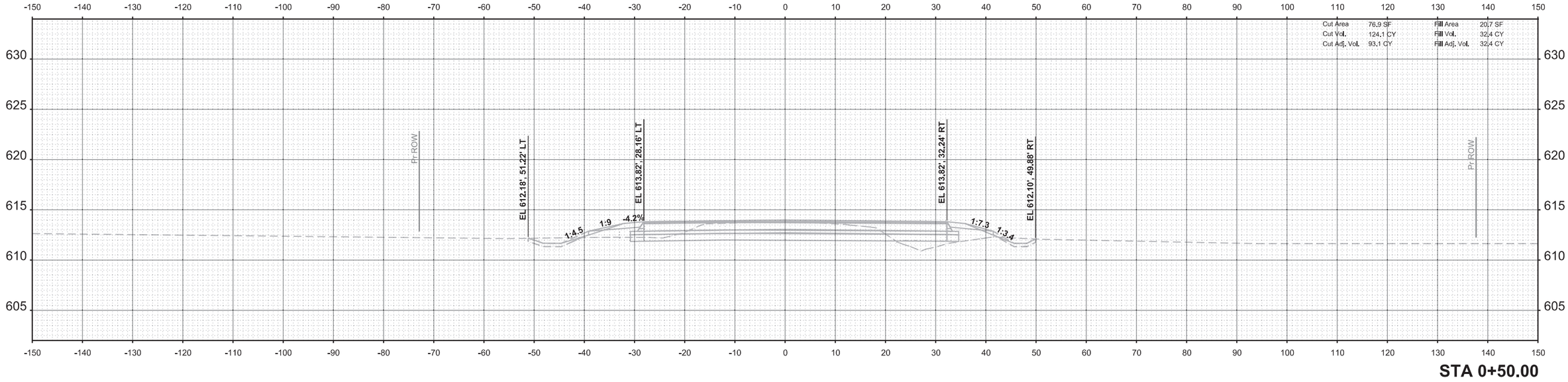
℄ OTTERVILLE RD (STA 0+00)

LEGEND

PATCHING



STA 1+00.00



STA 0+50.00

FINAL SURVEY
ORIGINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

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FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 10/17/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

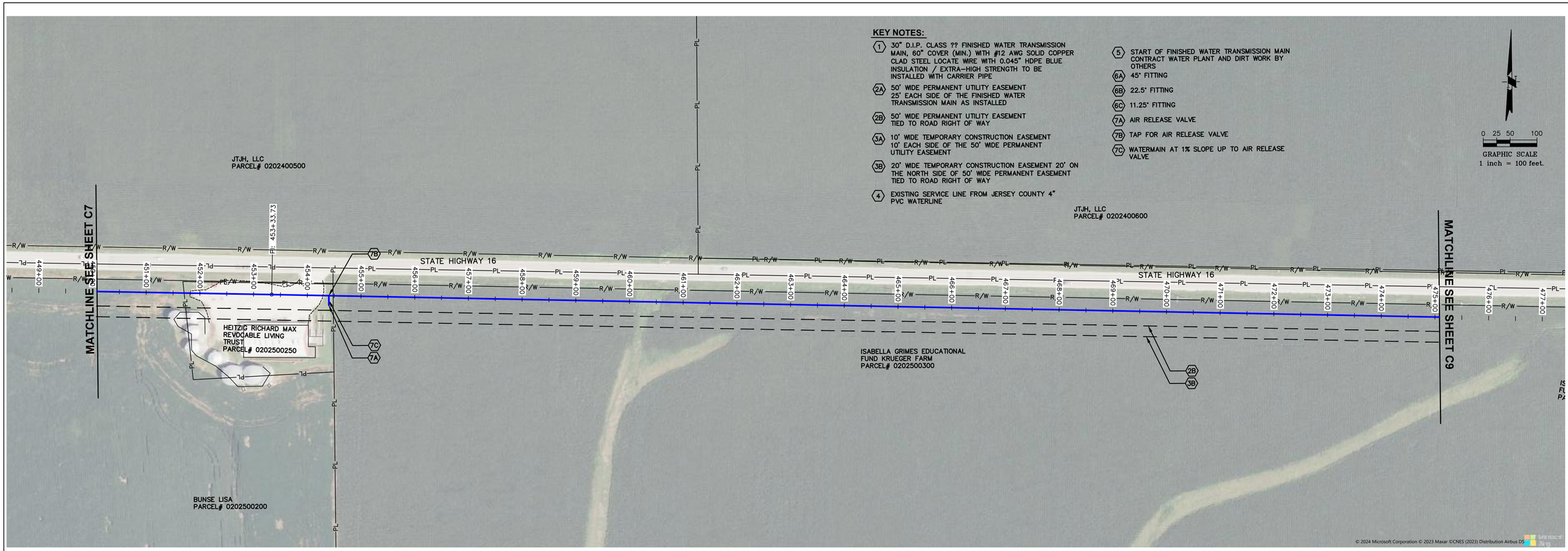
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OTTERVILLE ROAD

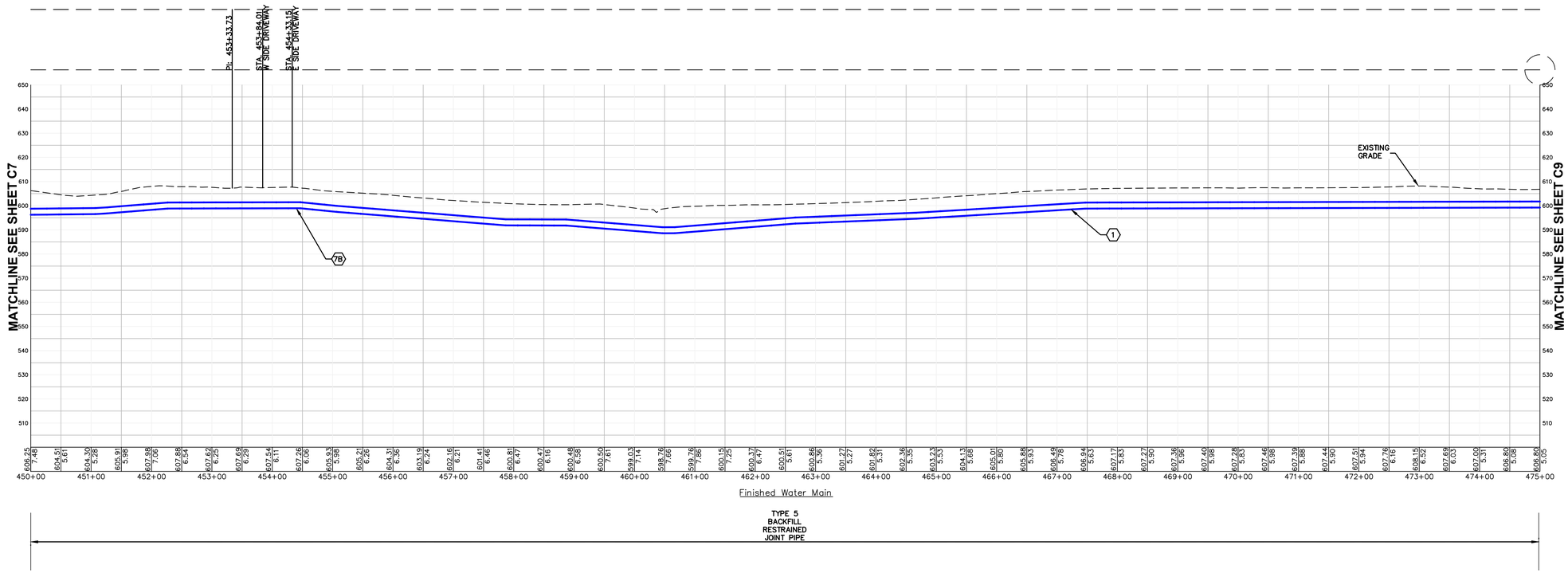
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	1W-1	JERSEY	51	49
		CONTRACT NO. 76P16		
		ILLINOIS	FED. AID PROJECT	

KEY NOTES:

1. 30" D.I.P. CLASS ?? FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
2A. 50' WIDE PERMANENT UTILITY EASEMENT 25' EACH SIDE OF THE FINISHED WATER TRANSMISSION MAIN AS INSTALLED
2B. 50' WIDE PERMANENT UTILITY EASEMENT TIED TO ROAD RIGHT OF WAY
3A. 10' WIDE TEMPORARY CONSTRUCTION EASEMENT 10' EACH SIDE OF THE 50' WIDE PERMANENT UTILITY EASEMENT
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7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE





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MECO-HENEGHAN ENGINEERS, LLC

www.meco-heneghan.com

DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024

400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

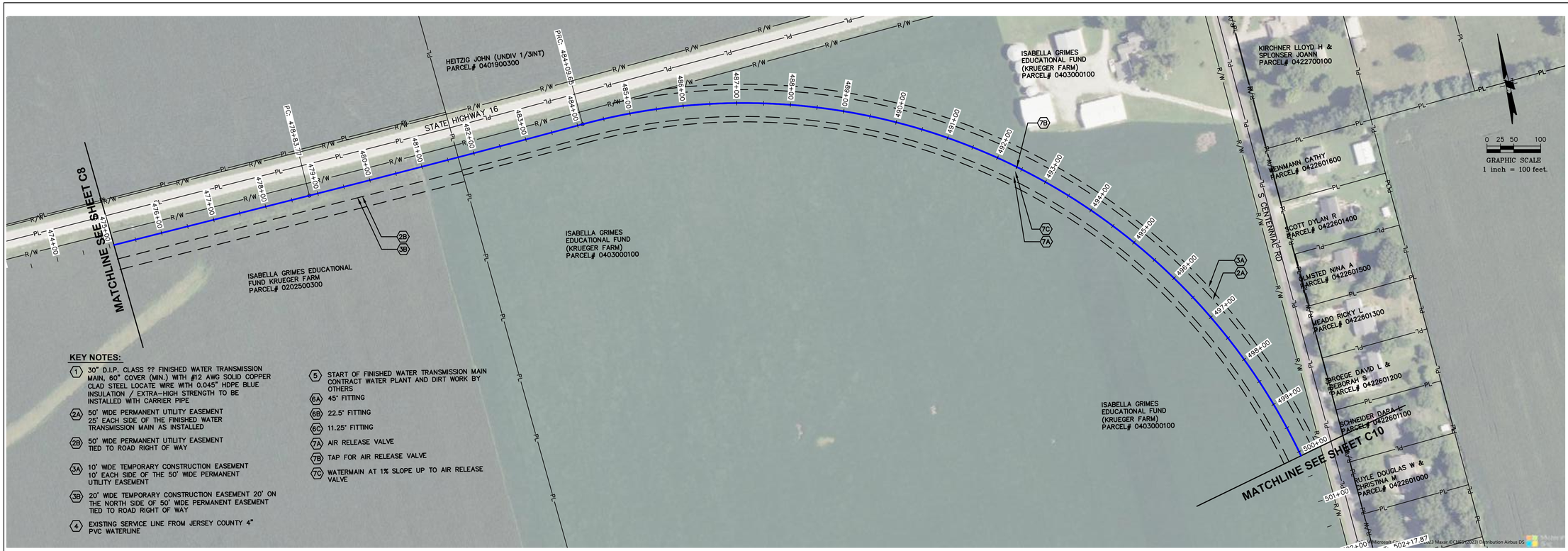
NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

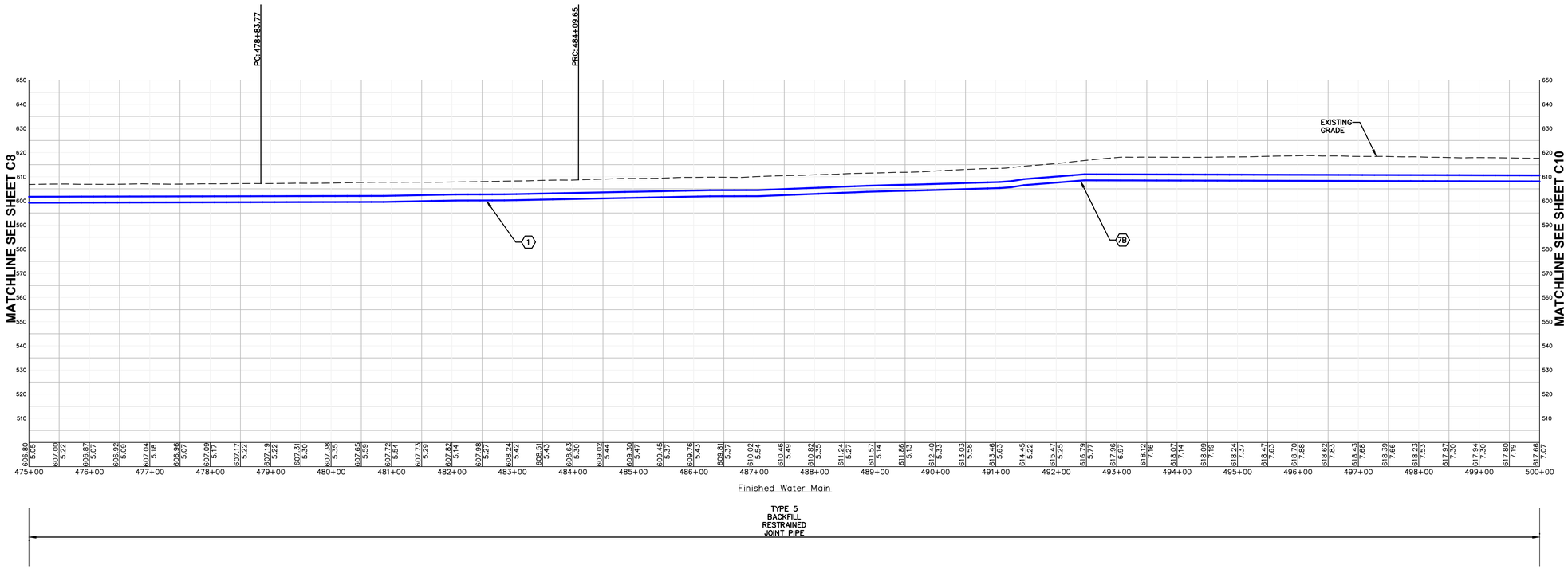
DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C8

12 OF 22 SHEETS



KEY NOTES:

1. 30" D.I.P. CLASS ?? FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE



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MECO-HENEGHAN ENGINEERS, LLC

www.meco-heneghan.com

DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
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☐ 400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

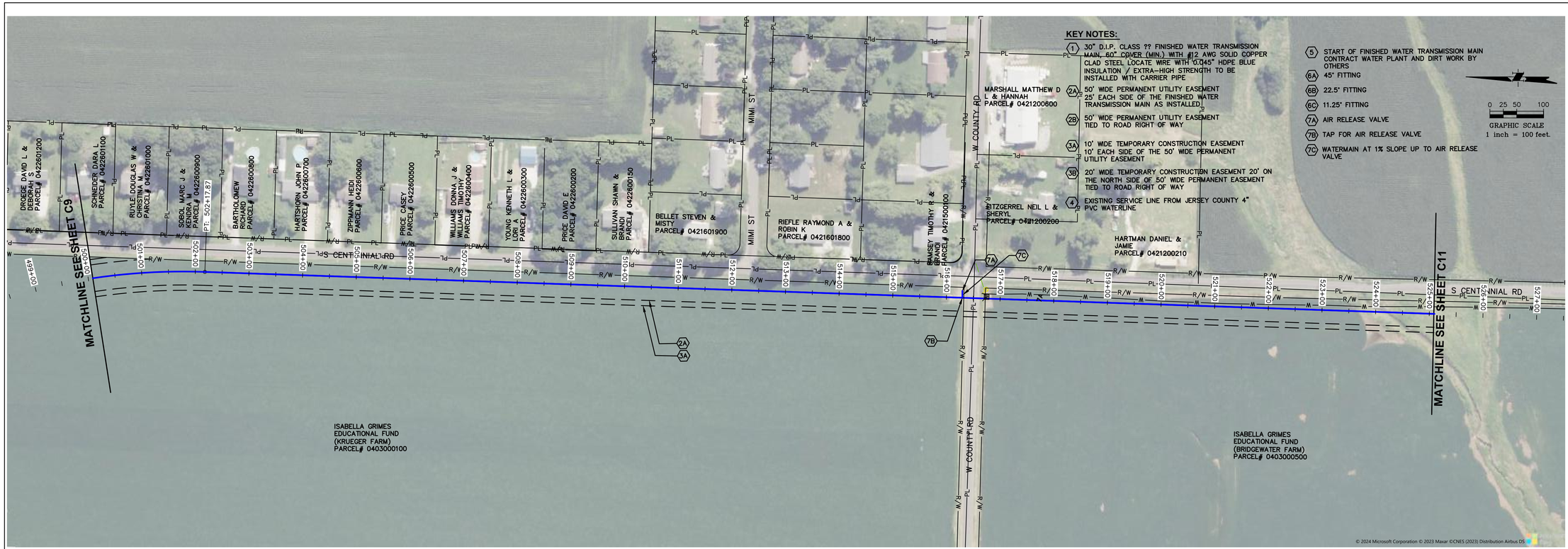
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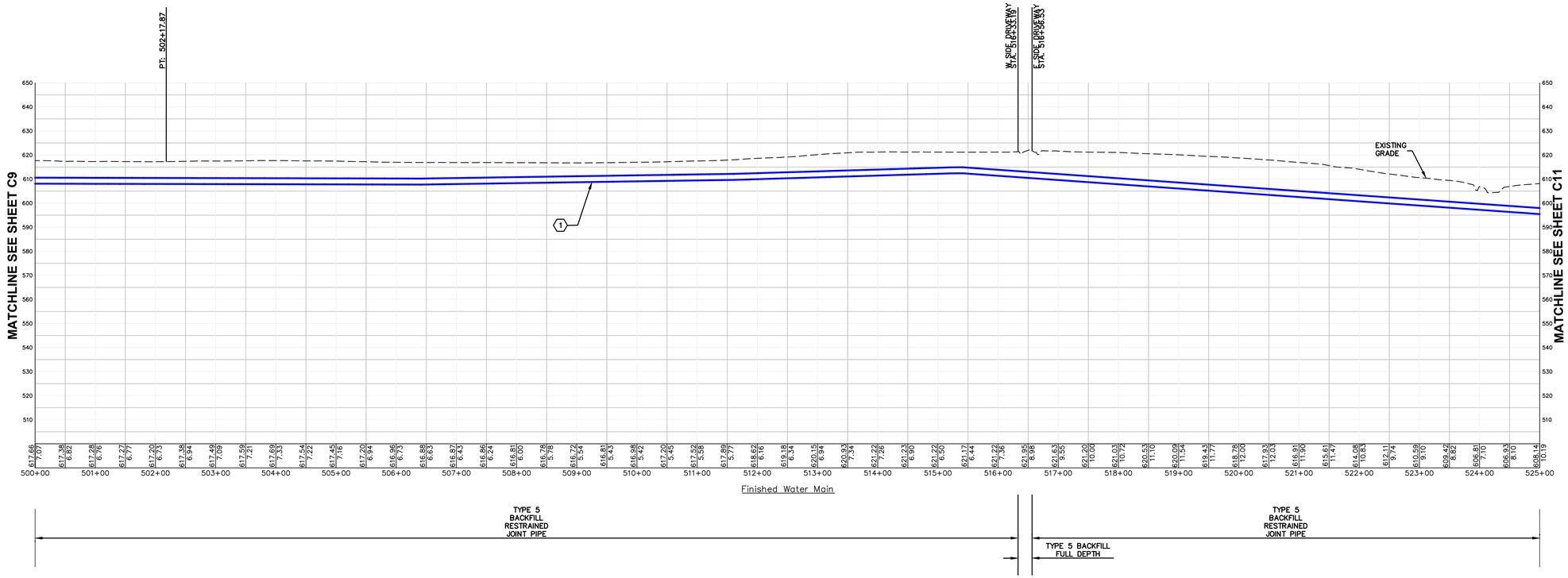
CONTRACT "F" FINISHED WATER TRANSMISSION MAIN AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	C9

13 OF 22 SHEETS





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www.meco-heneghan.com

DESIGN FIRM NUMBERS:
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NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

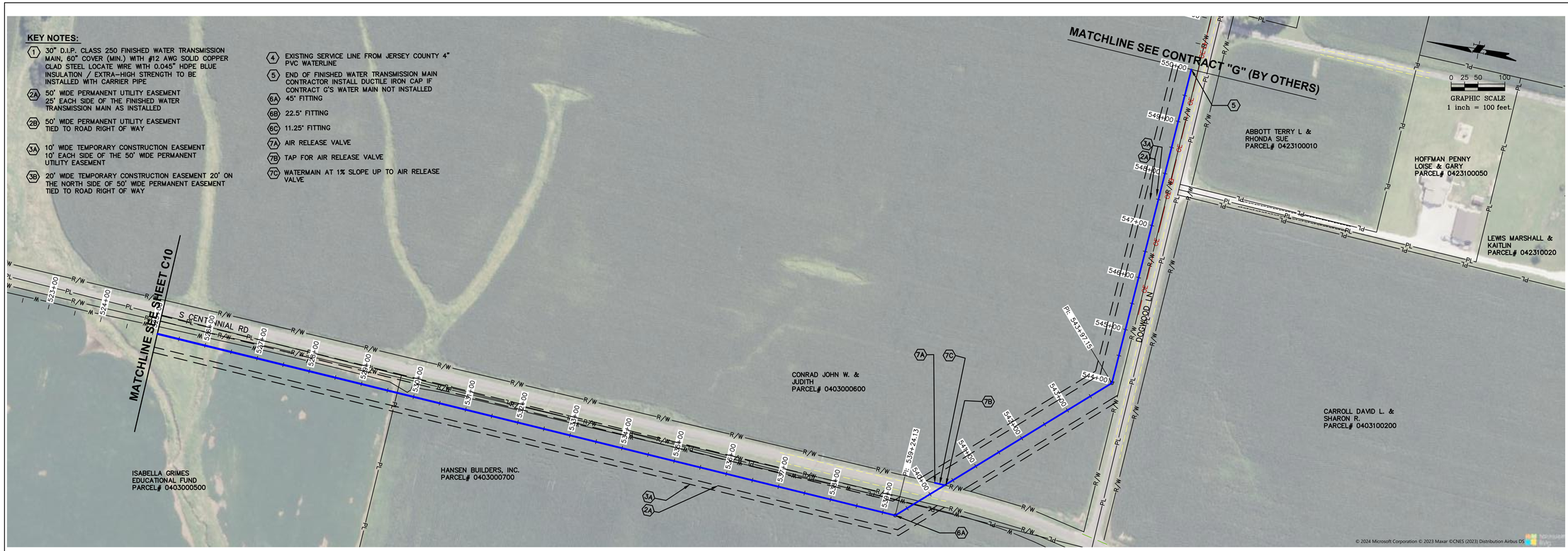
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

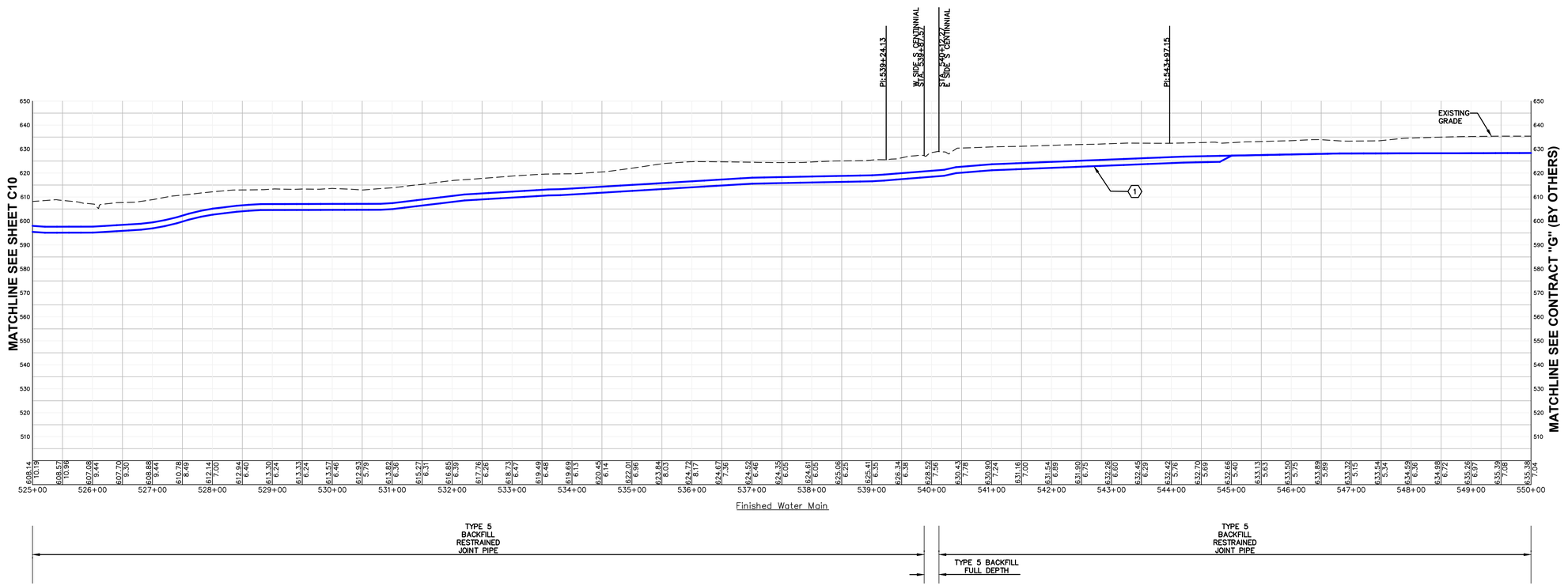
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HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=25'
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C10
14 OF 22 SHEETS

PATH=s:\shared-pjm\projects\71000-400\cad\contract f dwgs\finished sheets 12-22.dwg
PLOTTED: 1/31/2024 @ 3:15:37 PM BY elliott, seth

KEY NOTES:

1. 30" D.I.P. CLASS 250 FINISHED WATER TRANSMISSION MAIN, 60" COVER (MIN.) WITH #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE
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5. END OF FINISHED WATER TRANSMISSION MAIN CONTRACTOR INSTALL DUCTILE IRON CAP IF CONTRACT G'S WATER MAIN NOT INSTALLED
6A. 45° FITTING
6B. 22.5° FITTING
6C. 11.25° FITTING
7A. AIR RELEASE VALVE
7B. TAP FOR AIR RELEASE VALVE
7C. WATERMAIN AT 1% SLOPE UP TO AIR RELEASE VALVE





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REVISIONS | DATE | NO.

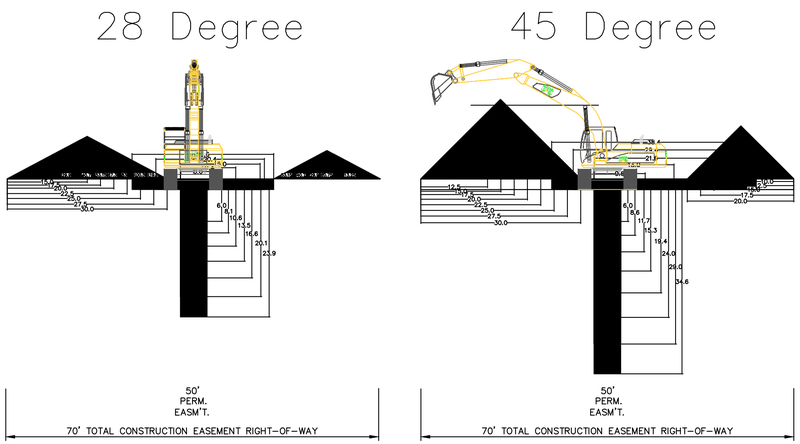
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
AERIAL PLAN AND PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	MNM
CHECKED BY:	TAM
APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=100'
VERTICAL SCALE:	1"=25'
PROJECT NO.	71000-400
DATE:	1/29/24
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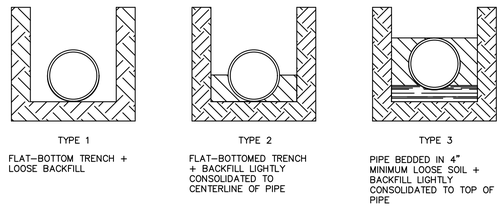
15 OF 22 SHEETS

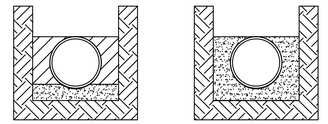
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2 / C18 RECOMMENDED CONSTRUCTION EASEMENT R-O-W WIDTH (30" PIPE DIA.)

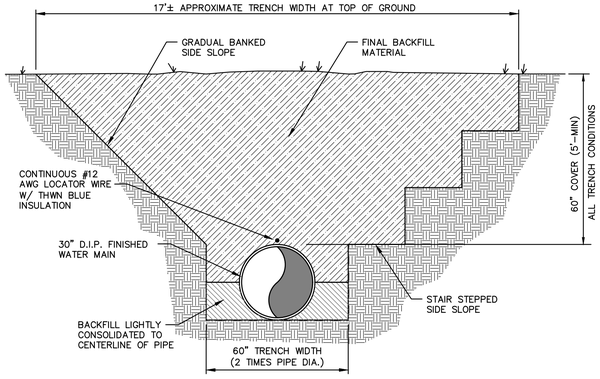
NO SCALE





3 / C18 LAYING CONDITIONS

NO SCALE



TYPICAL TRENCH WITH SIDE SLOPES

GENERAL NOTES:

1. MINIMUM TRENCH WIDTH SHALL BE MAINTAINED FROM 6" BELOW PIPE TO 12" ABOVE THE TOP OF PIPE.
2. IF PAYMENT IS AUTHORIZED, PAY LINES FOR ROCK REMOVAL SHALL BE BASED UPON 2 TIMES PIPE DIAMETER.
3. PIPE BEDDING NOTE BELOW IS MINIMUM STANDARD, HOWEVER ANY MORE STRINGENT REQUIREMENTS SET BY PIPE SUPPLIER SHALL SUPERSEDE THE REQUIREMENTS SHOWN.
4. GRANULAR BEDDING GRADUATION SHALL BE AS FOLLOWS UNLESS REQUIRED BY THE PIPE MANUFACTURER OR APPROVED BY THE ENGINEER.

SIEVE SIZE	PERCENT PASSING
1/2"	100
3/8"	80-100
#4	5-80
#10	0-5

5. FLOWABLE FILL MIX SHALL BE AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

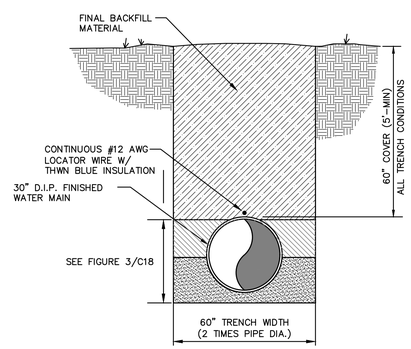
MATERIAL	QUANTITY/CU YD
CEMENT	70 POUNDS
FLY ASH	300 POUNDS
FINE AGGREGATE	2600 POUNDS
WATER	50 GALLON

6. UNSUITABLE BACKFILL MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR AT HIS EXPENSE AND SUITABLE REPLACEMENT MATERIAL PROVIDED AT NO ADDITIONAL COST TO OWNER.
7. ALL TRENCHES SHALL MEET O.S.H.A. REQUIREMENTS.
8. ROADWAY RESURFACING SHALL BE REPLACED AS SHOWN IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR CURRENT REQUIREMENTS OF THE CONTROLLING AUTHORITY, WHICH EVER IS MORE STRINGENT AS DEFINED BY THE ENGINEER.
9. PAVEMENT REPLACEMENT TO CONSIST OF THE FOLLOWING:

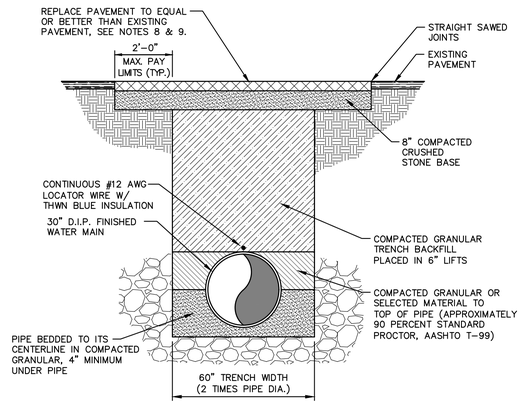
ASPHALT
MATERIAL: HOT MIX ASPHALT
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 4" COMPACTED IN PLACE
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL TACK COAT TOP OF FLOWABLE FILL OR PRIME CRUSHED STONE BASE AT A RATE OF 0.25 GALLON / SQUARE YARD.

CONCRETE
MATERIAL: PORTLAND CEMENT CONCRETE 4,000 PSI @ 28 DAYS DOWEL W/#4x24" @ 24" O.C.
THICKNESS: MATCH EXISTING (NOT LESS THAN 6")
NOTE: DELETE C.S. BASE FOR FLOWABLE FILL

GRAVEL
MATERIAL: 1" MINUS CRUSHED STONE
THICKNESS: MATCH EXISTING, BUT NOT LESS THAN 6" COMPACTED IN PLACE
NOTE: DELETE CRUSHED STONE BASE AND SAW JOINT REQUIREMENTS



TYPICAL TRENCH



GRANULAR BACKFILL WARRANTED CONDITIONS

(INCLUDING ROCK EXCAVATION)

1 / C18 TRENCH CONDITIONS

SCALE: 3/8" = 1'-0"

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

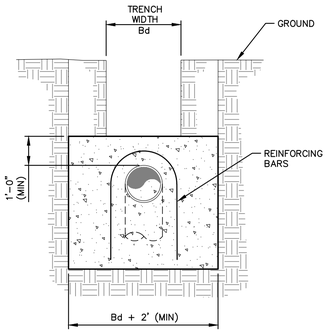
ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C12
16 OF 22 SHEETS

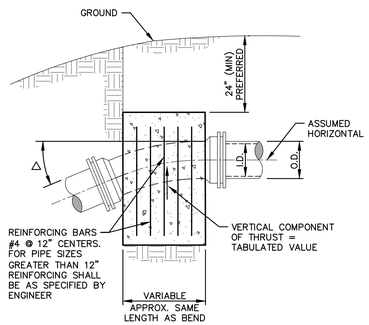
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GENERAL NOTES FOR ALL THRUST BLOCKS

1. CONCRETE FOR BLOCKING SHALL BE CLASS "B" (SEE NCTCOG 702.2.4.2)
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON AND PVC, AND 150 PSI FOR CONCRETE PIPE.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS T (SEE TABLE) ASSUMED FOR ESTIMATING PURPOSES ONLY.
5. POUR CONCRETE FOR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER / INSPECTOR. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN IN TABLES.
7. THE CALCULATIONS ARE BASED ON BEARING PRESSURES EQUAL TO 1,000 lbs/sf IN SOIL AND 2,000 lbs/sf IN ROCK.
8. USE POLYETHYLENE WRAP BETWEEN CONCRETE BLOCKING AND BENDS, TEES AND CAPS TO PREVENT THE CONCRETE FROM STICKING TO FITTINGS.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.



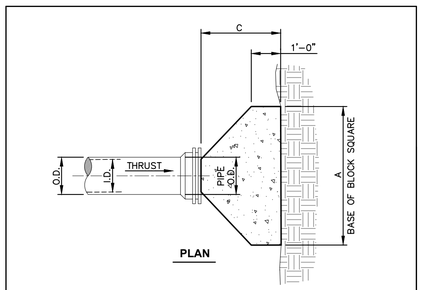
ELEVATION



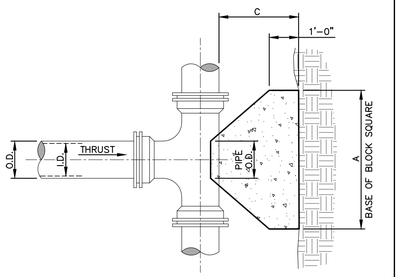
SECTION

△	11.25°		22.5°		45°		90°		△
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
30"	10.5	5.2	20.3	10.1	37.5	18.8	53.1	26.5	30"
36"	14.9	7.5	29.2	14.6	54.0	27.0	76.4	38.2	36"

VERTICAL THRUST BLOCK AT PIPE BEND



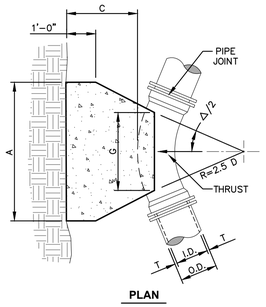
PLAN



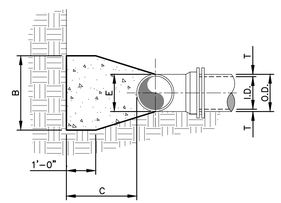
PLAN

			EARTH		ROCK		
I.D. (IN.)	THRUST (TONS)	C (FT.)	A (FT.)	VOL. (C.Y.)	A (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	53.0	3.0	7.5	4.1	5.5	2.4	30"
36"	76.3	4.0	9.0	7.3	6.5	4.2	36"

HORIZONTAL THRUST BLOCK AT TEES AND CAPS



PLAN



SECTION

I.D. (IN.)	T (FT.)	C △ = 11.25° (FT.)	C △ = 22.5° (FT.)	E (FT.)
30"	2.9	1.5	1.9	2.5
36"	4.5	1.5	2.3	3.3

△ = 11.25°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	1.4	10.4	3.0	3.5	0.6	2.0	3.5	0.4	30"
36"	1.7	15.0	3.5	4.5	0.9	2.0	4.0	0.5	36"

△ = 22.5°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	30"
36"	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	36"

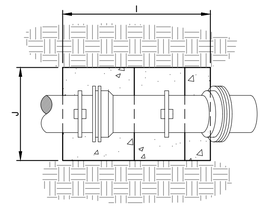
△ = 45°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	5.4	40.5	8.5	5.0	3.2	5.5	4.0	1.6	30"
36"	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6	36"

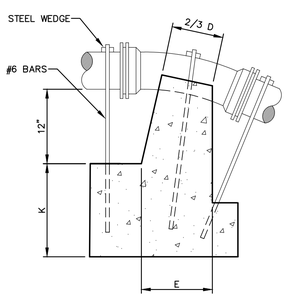
△ = 90°

			EARTH			ROCK			
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)
30"	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3	30"
36"	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3	36"

HORIZONTAL THRUST BLOCK AT PIPE BENDS

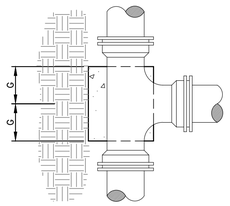


PLAN

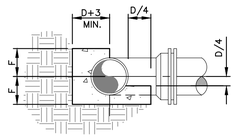


SECTION

THRUST BLOCKS FOR 1/16 AND 1/8 BENDS

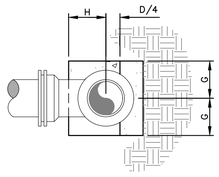


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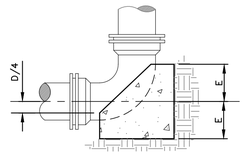


SECTION

THRUST BLOCK FOR TEES



PLAN



SECTION

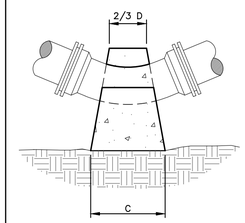
THRUST BLOCK FOR VERTICAL BENDS

THRUST BLOCK DIMENSIONS

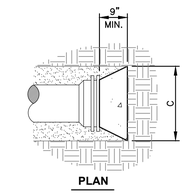
PIPE SIZE	B	C	D	E	F	G	H	I	J	K
2"–4"	15"	15"	2"–4"	8"	11"	11"	6 1/2"	36"	30"	30"
6"	17"	15"	6"	8"	12"	13"	8"	36"	30"	30"
8"	19"	20"	8"	8"	13"	14"	9"	48"	36"	33"
10"	22"	25"	10"	10"	16"	15"	11"	54"	48"	36"
12"	30"	50"	12"	15"	24"	15"	14"	—	—	—
14"	36"	58"	14"	18"	29"	18"	16"	—	—	—
16"	40"	67"	16"	20"	34"	20"	18"	—	—	—
18"	48"	72"	18"	24"	36"	24"	20"	—	—	—
20"	50"	84"	20"	26"	42"	26"	22"	—	—	—
24"	54"	112"	24"	27"	56"	27"	26"	—	—	—
30"	??"	???"	?"	?"	?"	?"	?"	—	—	—
36"	??"	???"	?"	?"	?"	?"	?"	—	—	—

MAXIMUM DESIGN PRESSURE = 250 PSI

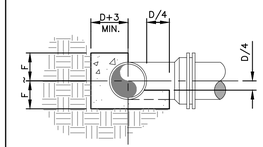
1 / C19 THRUST BLOCKS
NO SCALE



PLAN

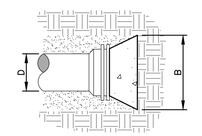


PLAN



SECTION

THRUST BLOCK FOR HORIZONTAL BENDS



SECTION

THRUST BLOCK FOR CAPS

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2025
MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
ST. CHARLES, MO 63301
P: (636) 395-7055

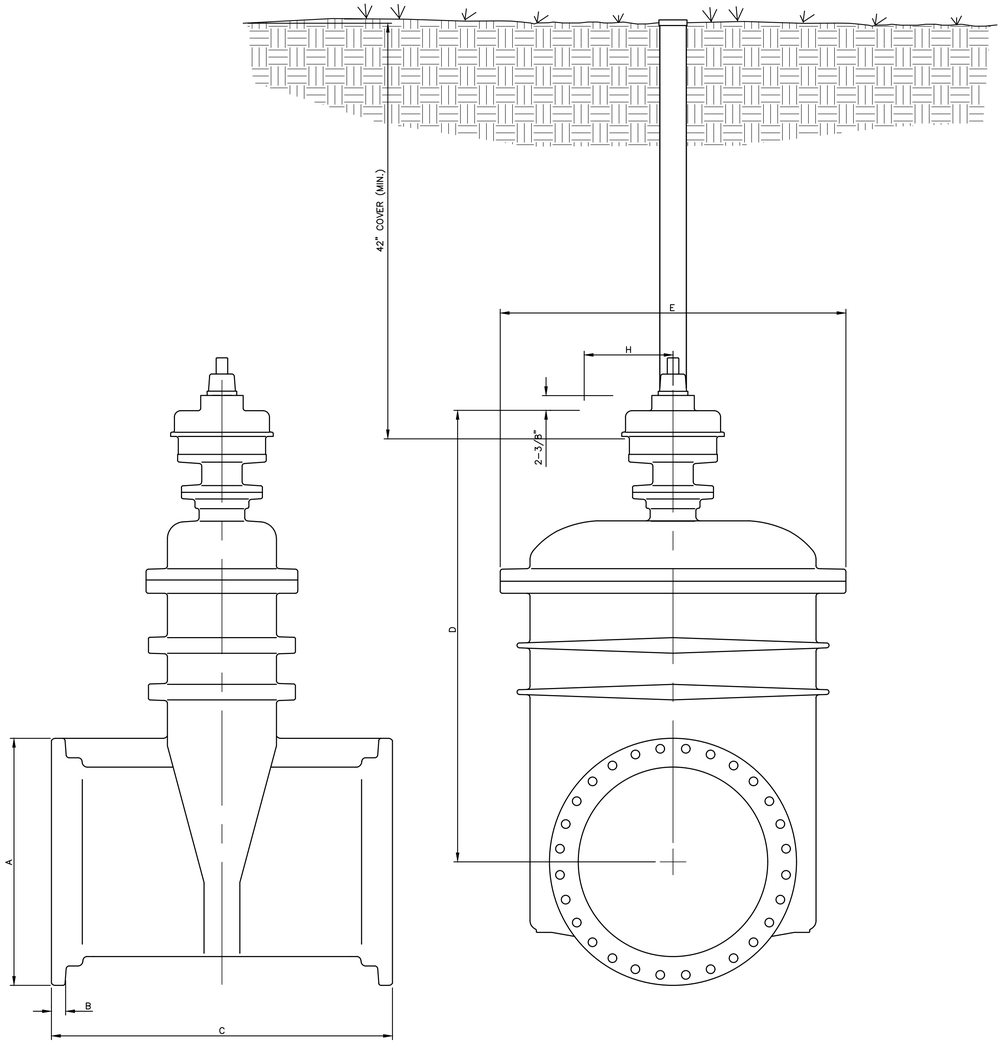
NO.	DATE	REVISIONS

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C13
17 OF 22 SHEETS

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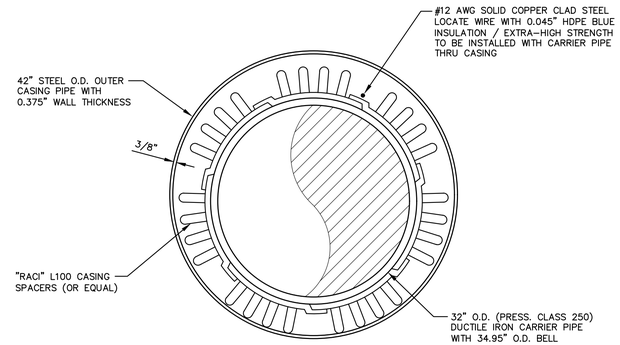


VALVE SIZE	A	B	C	D	E	F	G	H	J
30"	39-1/2"	1-3/4"	48-1/2"	71-1/2"	54-3/4"	20"	1"	14-7/8"	2"

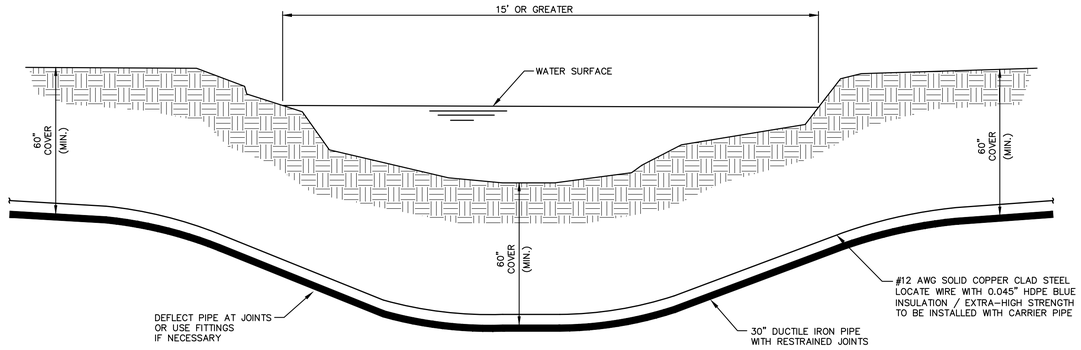
1 C20 30" GATE VALVE WITH BEVEL GEARING
NO SCALE

NOTES:

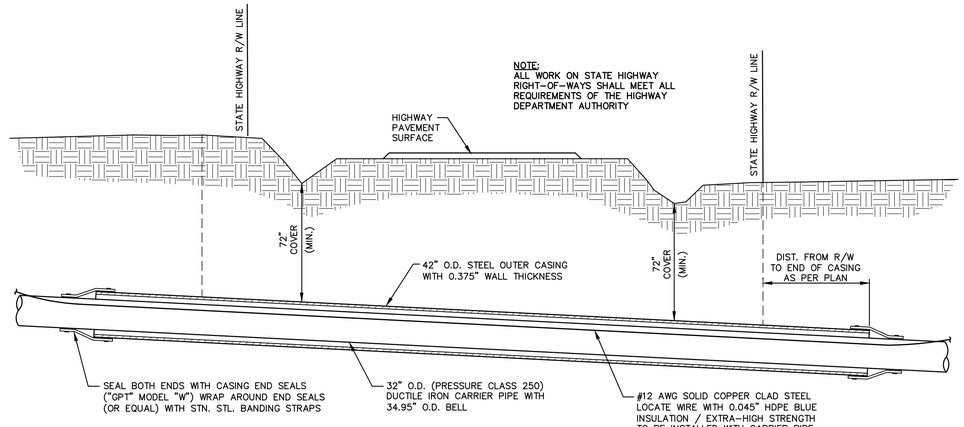
1. CASING SPACERS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED MANUFACTURER'S SPECIFICATIONS OR 6' WHICHEVER IS LESS.
2. DOUBLE SPACERS SHALL BE INSTALLED ONE FOOT FROM EACH END OF THE CASING.
3. ONE CASING SPACER MUST BE WITHIN 2' OF EACH SIDE OF A PIPE JOINT.
4. SPACERS SHALL HAVE A MINIMUM HEIGHT THAT EXCEEDS THE PIPE BELL HEIGHT.
5. CASING SPACERS SHALL BE RACI MODEL CI (OR EQUAL) POLYETHYLENE WITH STAINLESS STEEL BOLTS AND NUTS.



2 C20 SECTION THRU BORED STEEL CASING PIPE
NO SCALE



3 C20 TYPICAL CREEK CROSSING - DIRECTIONAL BORE (NO CASING)
NO SCALE



4 C20 TYPICAL SECTION THRU STATE HIGHWAY BORE
NO SCALE

MECO-HENEGHAN ENGINEERS, LLC
www.meco-heneghan.com
DESIGN FIRM NUMBERS:
IL: 184.007845-0010
035.003949
EXPIRES: APRIL 30, 2021
MO: 2018004041
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400 N. FIFTH STREET
SUITE 107
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REVISIONS | DATE | NO.

CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE:
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C14
18 OF 22 SHEETS

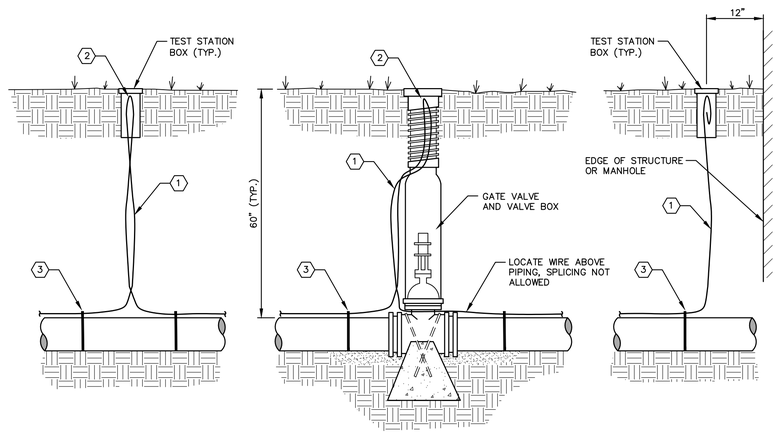
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KEY NOTES:

1. #12 AWG SOLID COPPER CLAD STEEL LOCATE WIRE WITH 0.045" HDPE BLUE INSULATION / EXTRA-HIGH STRENGTH TO BE INSTALLED WITH CARRIER PIPE (TYPICAL)
2. DO NOT CUT LOCATE WIRE IN TEST STATION OR VALVE BOX IF WIRE CAN BE RUN CONTINUOUS, LEAVE 24" (MIN.) SLACK LOOP
3. SECURE LOCATE WIRE TO TOP OF PIPE WITH TAPE OR PLASTIC TIE NEAR ALL VALVES AND FITTINGS AND BELOW TEST STATIONS

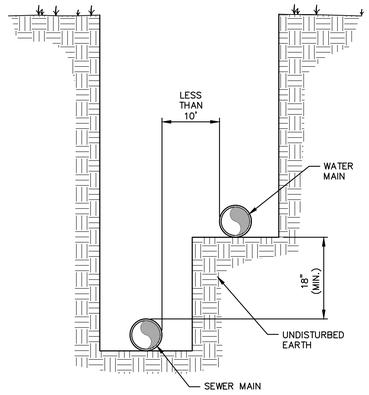
GENERAL NOTES:

1. LOCATE WIRE SHALL BE COPPER-CLAD STEEL
2. LOCATE WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL IN-LINE VALVE BOXES, BY FIRE HYDRANTS OR INSTALLED TEST STATIONS
3. LEAVE A 24" (MIN.) SLACK LOOP OF WIRE IN VALVE BOXES, TEST STATIONS OR WITHIN (2) FEET OF FIRE HYDRANTS
4. LOCATE WIRE SHALL BE INSTALLED OVER ALL WATERLINES, WATER SERVICE LINES AND SEWER FORCEMAINS
5. A CONDUCTIVITY TEST SHALL BE PERFORMED ON ALL LOCATE WIRES
6. TEST STATION BOX SHALL BE CAST IRON
7. LOCATE WIRE CONNECTION SHALL BE MADE WITH A DRYCONN DIRECT BURY LUG

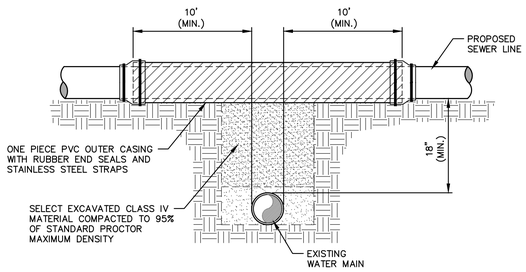


1 C21 TYPICAL LOCATE WIRE DETAILS
NO SCALE

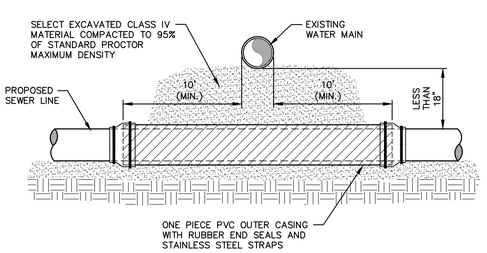
NOTE:
SHOULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF 10 FEET, A SEWER MAY BE CLOSER THAN 10 FEET TO A WATER MAIN PROVIDED THAT THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.



2 C21 WATER AND SEWER MAINS HORIZONTAL AND VERTICAL SEPARATION DETAIL
NO SCALE



3 C21 PROPOSED SEWER LINE CROSSING ABOVE EXISTING WATER MAIN
NO SCALE



4 C21 PROPOSED SEWER LINE CROSSING BELOW EXISTING WATER MAIN
NO SCALE

GENERAL NOTES:

41-2.01B HORIZONTAL SEPARATION – WATER MAINS AND SEWERS

(1) WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

(2) WATER MAINS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:

(A) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; AND

(B) THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND

(C) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

(3) WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

41-2.01C VERTICAL SEPARATION – WATER MAINS AND SEWERS

(1) A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

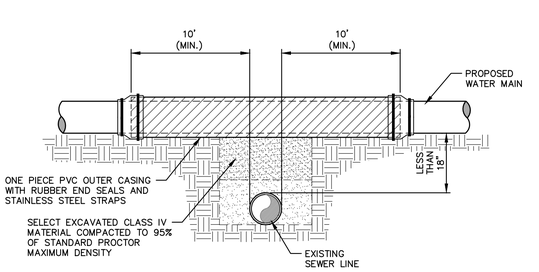
(2) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

(A) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (1) ABOVE; OR

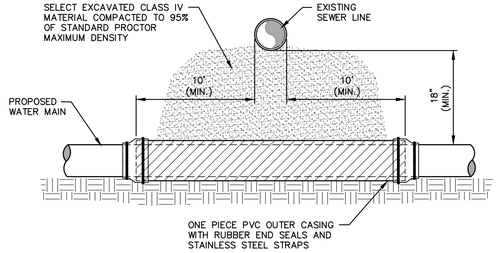
(B) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.

(3) A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN, AS SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER.

(4) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.



5 C21 PROPOSED WATER MAIN CROSSING ABOVE EXISTING SEWER LINE
NO SCALE



6 C21 PROPOSED WATER MAIN CROSSING BELOW EXISTING SEWER LINE
NO SCALE

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www.meco-heneghan.com
DESIGN FIRM NUMBERS:
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035.003949
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MO: 2018004041
EXPIRES: DECEMBER 31, 2024
400 N. FIFTH STREET
SUITE 107
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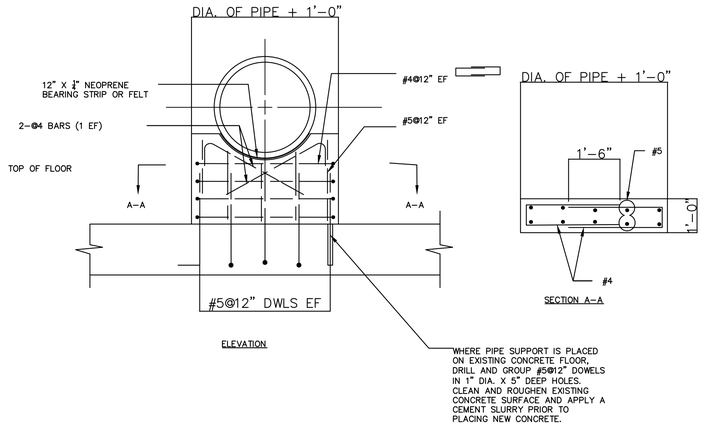
NO.	DATE	REVISIONS

CONTRACT "E"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: MNM
CHECKED BY: TAM
APPROVED BY: SWE
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE: ———
PROJECT NO. 71000-400
DATE: 1/29/24
SHEET NO. C15
19 OF 22 SHEETS

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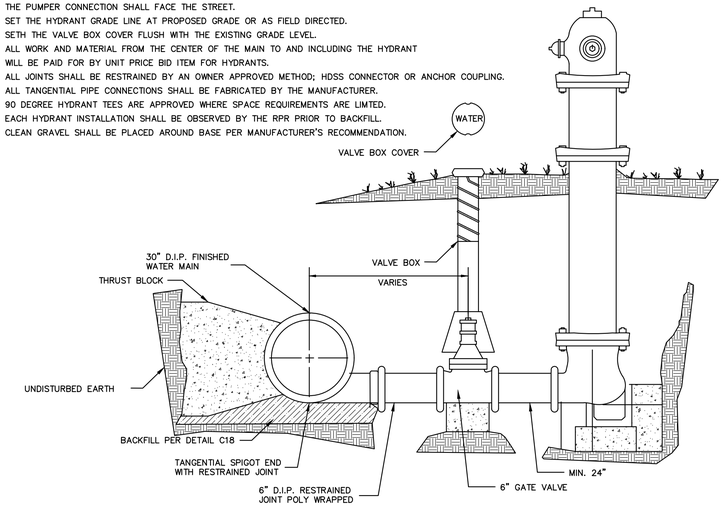


1 C22 CONCRETE SADDLE

NO SCALE

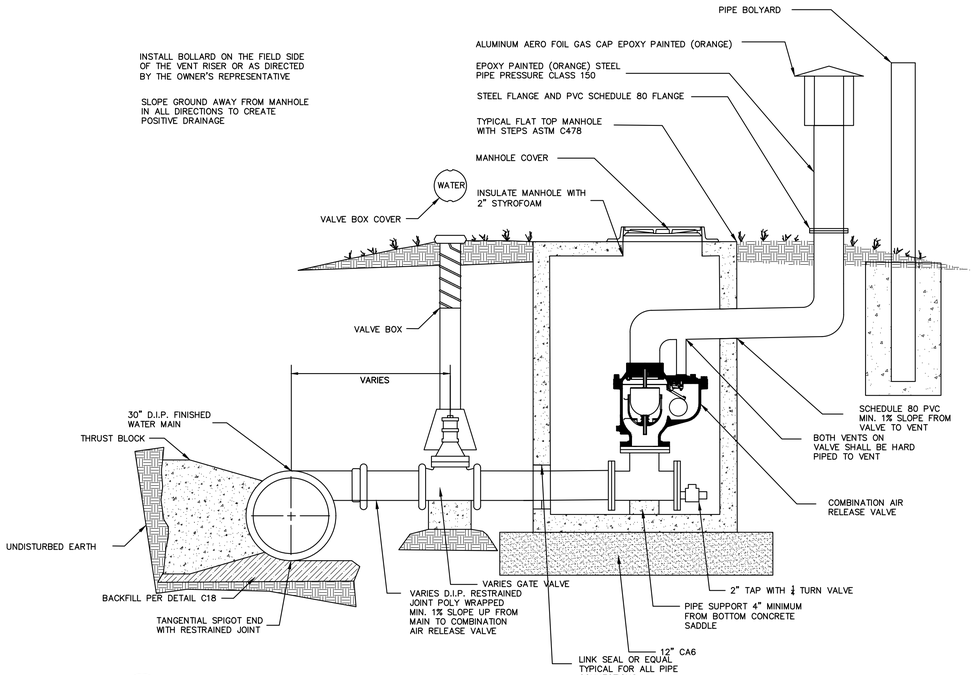
NOTES:

1. THE PUMPER CONNECTION SHALL FACE THE STREET.
2. SET THE HYDRANT GRADE LINE AT PROPOSED GRADE OR AS FIELD DIRECTED.
3. SETH THE VALVE BOX COVER FLUSH WITH THE EXISTING GRADE LEVEL.
4. ALL WORK AND MATERIAL FROM THE CENTER OF THE MAIN TO AND INCLUDING THE HYDRANT WILL BE PAID FOR BY UNIT PRICE BID ITEM FOR HYDRANTS.
5. ALL JOINTS SHALL BE RESTRAINED BY AN OWNER APPROVED METHOD; HDSS CONNECTOR OR ANCHOR COUPLING.
6. ALL TANGENTIAL PIPE CONNECTIONS SHALL BE FABRICATED BY THE MANUFACTURER.
7. 90 DEGREE HYDRANT TEES ARE APPROVED WHERE SPACE REQUIREMENTS ARE LIMTED.
8. EACH HYDRANT INSTALLATION SHALL BE OBSERVED BY THE RPR PRIOR TO BACKFILL.
9. CLEAN GRAVEL SHALL BE PLACED AROUND BASE PER MANUFACTURER'S RECOMMENDATION.



2 C22 BLOW-OFF HYDRANT DETAIL

NO SCALE



3 C22 COMBINATION AIR RELEASE/VACUUM VALVE DETAIL

NO SCALE

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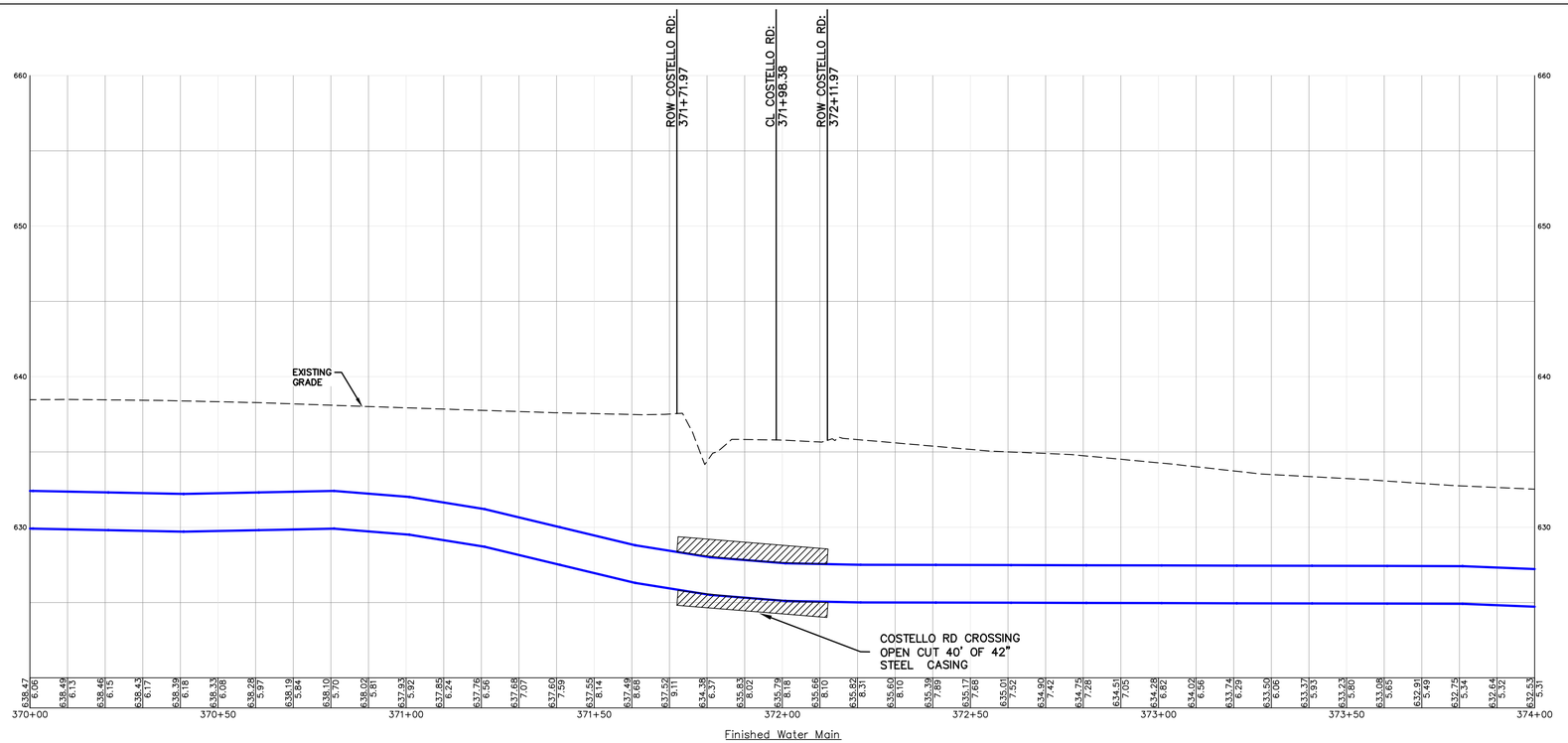
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
TYPICAL DETAILS

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

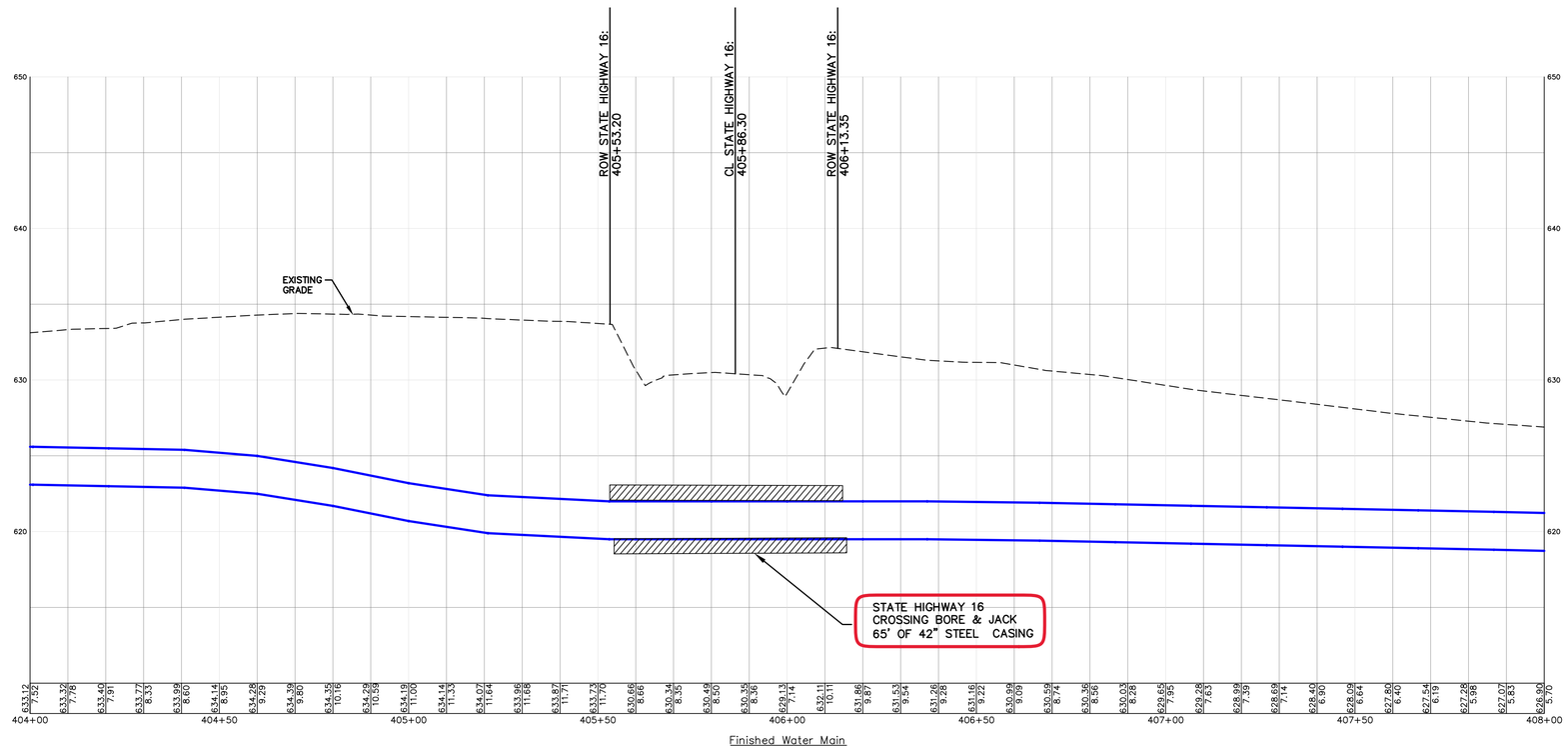
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PROJECT NO.	71000-400
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20 OF 22 SHEETS

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Finished Water Main



Finished Water Main

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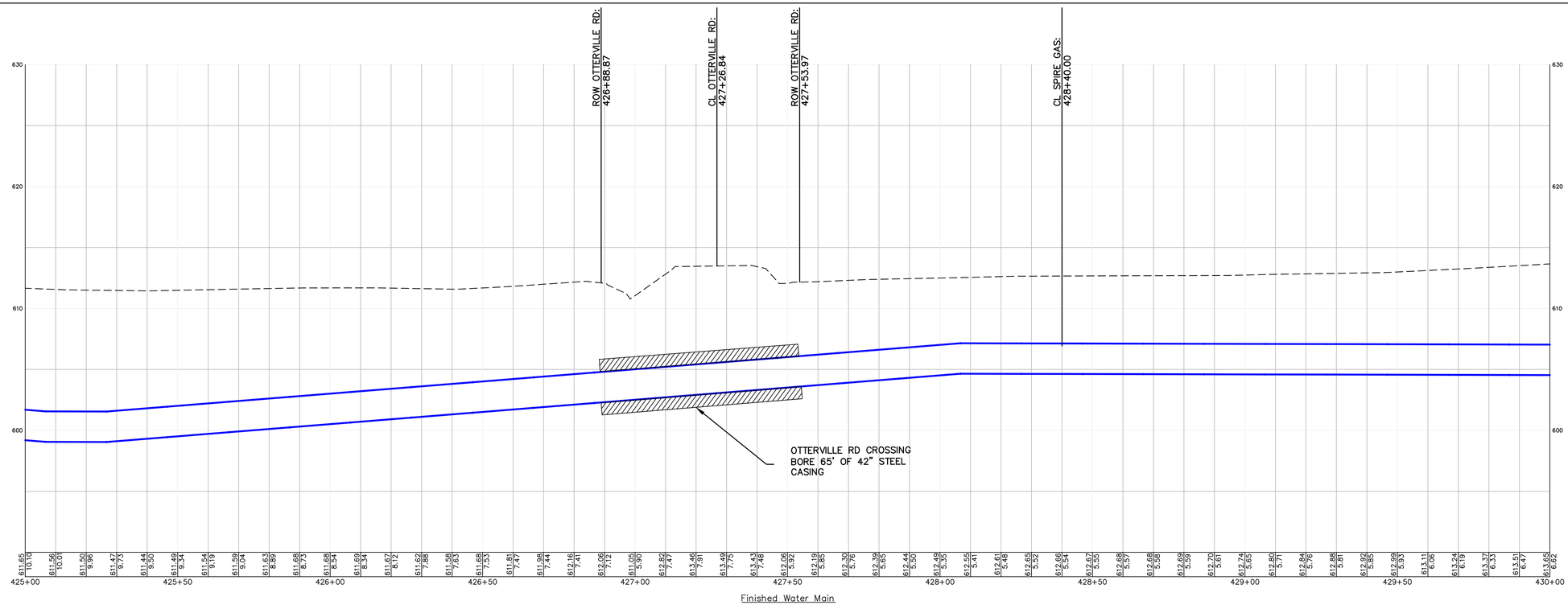
CONTRACT "F"
FINISHED WATER TRANSMISSION MAIN
CROSSING PROFILE

ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	CP1

21 OF 22 SHEETS

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ILLINOIS ALLUVIAL REGIONAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=5'
PROJECT NO.	71000-400
DATE:	1/29/24
SHEET NO.	CP2

22 OF 22 SHEETS

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