Tazewell County Highway Department

AUTHORIZATION TO BID FORM

Addenda will be published to our Bid Letting page in the same manner as the plans and specifications. It is the sole responsibility of the plan holders to periodically check the website for plan addenda.

ALL BIDDERS PLANNING TO PLACE A BID MUST FILL OUT THIS FORM TO BE AUTHORIZED TO BID.

- This form must be completed, signed and either faxed to (309) 925-5533 or emailed to jsciortino@tazewell.com.
- Failure to submit this completed form will result in the bid not being accepted.
- Contractors may verify we have received their Authorization to Bid form by checking the **Plan Holders List** found under the corresponding letting date.
- If an email address is provided, a Notice of Addenda will be sent when updates are available.
- Bid results are typically posted by noon on the day of the letting and are preliminary until approved by the County Board on the last Wednesday of the month.

Company Name:	
Address:	
Phone:	
Fax:	
Email:	
Bid Letting Date:	

Projects Intending to Bid on:

Section Number:	Description:

Tazewell County Highway Department
21308 Illinois Route 9
Tremont, IL 61568
p: (309) 925-5532 • f: (309) 925-5533 • jsciortino@tazewell.com

Illinois Department of Transportation

Local Public Agency
Formal Contract Proposal

COVER SHEET

Proposal Submitted By:

Contractor's Name

Contractor's Address | City | State | Zip Code

STATE OF ILLINOIS

Local Public Agency: Tazewell County | County: Tazewell | Section Number: 21-00000-10-GM

Route(s) (Street/Road Name): Various | Type of Funds: County Matching

☐ Proposal Only ☒ Proposal and Plans ☐ Proposal only, plans are separate

Submitted/Approved
For Local Public Agency:

For a County and Road District Project

~~Submitted/Approved~~

Highway Commissioner Signature | Date

Submitted/Approved

County Engineer/Superintendent of Highways | Date

Craig Fuhs | 06/30/2021

For a Municipal Project

Submitted/Approved/Passed

Signature | Date

Official Title

Department of Transportation

Released for bid based on limited review

Regional Engineer Signature | Date

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Tazewell County	Tazewell	21-00000-10-GM	Various

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of the County Engineer
(Name of Office)
21308 IL Route 9, Tremont, IL 61568 (Address) until 8:00 AM (Time) on 07/19/21 (Date).

Sealed proposals will be opened and read publicly at the office of the County Engineer
(Name of Office)
21308 IL Route 9, Tremont, IL 61568 (Address) at 8:00 AM (Time) on 07/19/21 (Date).

DESCRIPTION OF WORK

Location	Project Length
Various	

Proposed Improvement

Installation of cured in place pipe lining at various locations in Tazewell County

1. Plans and proposal forms will be available in the office of

the County Engineer, 21308 IL Route 9, Tremont, IL 61568

2. ☐ Prequalification

   If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and two originals with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
   a. Local Public Agency Formal Contract Proposal (BLR 12200)
   b. Schedule of Prices (BLR 12201)
   c. Proposal Bid Bond (BLR 12230) (if applicable)
   d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
   e. Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Tazewell County	Tazewell	21-00000-10-GM	Various

PROPOSAL

1. Proposal of _____
Contractor's Name

_____.
Contractor's Address

2. The plans for the proposed work are those prepared by the Tazewell County Highway Department and approved by the Department of Transportation on _____.

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the " Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within _____ working days or by 11/15/21 unless additional time is granted in accordance with the specifications.

6. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.

7. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.

8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

10. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: County Treasurer of Tazewell County .
The amount of the check is _____ (_____).

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number _____ .

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Tazewell County	Tazewell	21-00000-10-GM	Various

CONTRACTOR CERTIFICATIONS

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating**. The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

   A violation of section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense, or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

   A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State of Local government. No corporation shall be barred from contracting with any unit of State or Local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter or record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Tazewell County	Tazewell	21-00000-10-GM	Various

SIGNATURES

(If an individual)

Signature of Bidder | Date

Business Address

City | State | Zip Code

(If a partnership)

Firm Name

Signature | Date

Title

Business Address

City | State | Zip Code

Insert the Names and Addresses of all Partners

(If a corporation)

Corporate Name

Signature | Date

Title

Business Address

City | State | Zip Code

Insert Names of Officers

President

Secretary

Attest:

Secretary

Treasurer

Illinois Department of Transportation

Schedule of Prices

Contractor's Name

Contractor's Address | City | State | Zip Code

Local Public Agency: Tazewell County Highway Department | County: Tazewell | Section Number: 21-00000-10-GM

Route(s) (Street/Road Name): Various

Schedule for Multiple Bids

Combination Letter	Section Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications.)

Item Number	Items	Unit	Quantity	Unit Price	Total
1	CURED-IN-PLACE				
	PIPE LINING 30"	FOOT	76		
2	CURED-IN-PLACE				
	PIPE LINING 36"	FOOT	120		
3	MOBILIZATION	L SUM	1		
				Bidder's Total Proposal	

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.

Illinois Department of Transportation

Local Public Agency
Proposal Bid Bond

Local Public Agency	County	Section Number
Tazewell County Highway Department	Tazewell	21-00000-10-GM

WE, _____ as PRINCIPAL, and

_____ as SURETY, are held jointly, severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids, whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LPA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LPA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LPA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ (Day) of _____ (Month and Year)

Principal

Company Name		Company Name	
Signature	Date	Signature	Date
By:		By:	
Title		Title	

(If Principal is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

Surety

Name of Surety	Signature of Attorney-in-Fact	Date
	By:	

STATE OF IL

COUNTY OF

I _____ , a Notary Public in and for said county do hereby certify that

_____

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ (Day) day of _____ (Month and Year) .

Notary Public Signature

(SEAL)

Date commission expires _____

Local Public Agency	County	Section Number
Tazewell County Highway Department	Tazewell	21-00000-10-GM

ELECTRONIC BID BOND

☐ **Electronic bid bond is allowed (box must be checked by LPA if electronic bid bond is allowed)**

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LPA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

Company/Bidder Name

Signature

Date

Title

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2021

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS and frequently used RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 4-1-16) (Revised 1-1-21)

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Illinois Department of Transportation

Check Sheet for Recurring Special Provisions

Local Public Agency	County	Section Number
Tazewell County Highway Department	Tazewell	21-00000-10-GM

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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Local Public Agency	County	Section Number
Tazewell County Highway Department	Tazewell	21-00000-10-GM

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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Illinois Department of Transportation

Special Provisions

Local Public Agency	County	Section Number
Tazewell County	Tazewell	21-00000-10-GM

The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specification and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of the above named section, and in case of conflict with any parts, or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

DESCRIPTION OF WORK: The work of this section consists of the rehabilitation of existing pipe culverts utilizing cured in place resin impregnated tubes to line the interior circumference of the existing culvert pipes on Towerline Rd. (CH 11), & Manito Rd. (CH 16). The work may be performed using either Thermosetting Resin Cured-In-Place Pipe (Thermo CIPP) or Ultraviolet Light Cured Glass Reinforced Plastic Cured-In-Place Pipe (UV GRP CIPP).

TRAFFIC CONTROL PLAN: The County will supply Traffic control & flagging for each location as necessary. The contractor shall notify the Engineer at least one (1) week in advance of beginning work at the site which will require Traffic Control in order for the County to schedule their workforce, prepare traffic control and provide any advance notice to the public, as applicable.

BACKHOE & OPERATOR: The County will supply a Backhoe & Operator to assist during lining at no cost to the Contractor.

CURED-IN-PLACE PIPE LINING (CIPP): This work shall consist of furnishing all labor, equipment, materials, and technical assistance to install a resin impregnated tube tightly against the interior circumference of the existing pipe, including light cleaning and video inspection and recording. The existing pipe culvert is cleaned then video inspected and recorded. Any required remedial work on the existing pipeline, such as filling voids or enlarging narrowed locations, is performed. A resin-impregnated flexible tube is inserted into the existing pipeline for the full length of the existing pipe. The tube is expanded to fit against the original pipeline and then the resin is cured by exposure to mixed air and steam or hot water or exposure to ultraviolet light. The finished product is a jointless, structurally sound, smooth and watertight pipe.

The work and materials shall be in accordance with the applicable provisions of the latest versions of the following specifications in effect on the date of invitation for bids, which shall apply and govern as though written herein in full:

ASTM F2019	ASTM F1216	ASTM F1743	ASTM D543
ASTM D578	ASTM D638	ASTM D790	ASTM D2122
ASTM D3567	ASTM D5813		

Experience: The Contractor must have had at least one (1) year active experience in the commercial installation of the product bid. In addition, the Contractor must have successfully installed at least 50,000 feet of the product bid in wastewater or stormwater conveying systems. The Contractor's Supervisor for this project shall have a minimum of one (1) year of experience in scheduling and all aspects of the cleaning and inspection of existing pipes, and the installation and post-installation inspection of the product bid and shall supervise on-site the cleaning and inspection of existing pipes, and the installation and post-installation inspection of the product bid. The Contractor's Supervisor or the Manufacturer shall have a minimum of three (3) years active experience in the wet-out of at least 350,000 feet of the product bid in wastewater or stormwater conveying systems, with a minimum 5,000 feet of 24" or larger, and such Contractor's Supervisor or Manufacturer shall perform the wet-out of the product bid. Documentation acceptable to the Engineer of these minimum installations, Supervisor experience and Manufacturer experience must be submitted with the Request for Authorization to Bid, including project description,

project location, and municipal and/or engineering contacts.

Preparation: An inspection of pipe culverts to be lined shall be performed by the Contractor's experienced personnel, trained in locating breaks by closed-circuit television. The Contractor shall notify the Engineer a minimum of 48 hours in advance of the scheduled cleaning and pre-installation inspection of the existing pipes and shall accommodate the joint viewing of the cleaning and inspection by the Engineer or Engineer's designee.

The existing pipeline shall be cleaned with conventional sewer cleaning equipment which shall include but not be limited to hydraulically powered equipment, high-velocity jet cleaners, and mechanically powered equipment. The existing pipeline shall be cleared of all internal roots and debris as well as obstructions which may be removed with conventional sewer cleaning equipment as necessary to meet or exceed the manufacturer's specifications for liner installation. As many as two (2) cleaning passes are included in this work. All debris removed from the pipeline during the cleaning process shall be properly disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications for Road and Bridge Construction except that payment shall be considered as included in the contract unit prices for the various pay items for the applicable pipe culvert.

After the existing pipeline to be lined is thoroughly cleaned, inspection shall be made with a color pan and tilt, 360° rotating head camera specifically designed and constructed for sewer inspection that is recording via closed-circuit television. Lighting for the camera shall be provided which provides a clear picture of the entire periphery of the existing pipeline. The Contractor shall carefully inspect the interior of the pipeline to determine the need for plugging and by-passing to eliminate flow from the line section and to determine the nature and location of any conditions that may prevent proper installation of the resin impregnated tube as well as the curing and performance of the CIPP. Such limiting conditions may include protruding service taps, dropped joints, deteriorated pipe, missing sections of pipe, collapsed or crushed pipe, and reductions in the cross-sectional area of the pipe in excess of 40%. The Contractor shall log these conditions and their location and provide that information to the Engineer immediately. The Engineer shall determine whether such conditions prevent proper installation of the resin impregnated tube as well as the curing and performance of the CIPP, whether such conditions can be removed by conventional sewer cleaning equipment, whether a point repair should be performed and whether to proceed with CIPP of the applicable pipe culvert.

The Engineer may order a point repair to be performed by the Tazewell County Highway Department, by others or as extra work by the Contractor in accordance with Article 109.04 of the Standard Specifications for Road and Bridge Construction.

The Engineer may delete the work of CIPP for the subject culvert pipe from the contract and no additional compensation will be allowed. In addition, the provisions of Article 104.02(b) of the Standard Specifications for Road and Bridge Construction shall not apply.

The internal diameter of each pipe culvert shall be carefully measured at both ends and submitted to the Engineer prior to the ordering of the tube.

The closed-circuit television recordings, logs, and findings of the pre-installation inspection of the existing pipeline shall be submitted on media and in a format meeting the approval of the Engineer.

Delivery, Storage and Handling: Care shall be taken in shipping, handling and storage to avoid damaging the liner. The liner shall be adequately supported and protected at all times and shall be stored in a manner as recommended by the manufacturer and as approved by the Engineer. Any damaged liner shall be replaced by the Contractor and no additional compensation will be allowed.

Materials: The structural design thickness calculations shall be submitted to and approved by the Engineer prior to ordering the tube. For design calculations, the CIPP shall be designed pursuant to the "fully deteriorated gravity pipe condition" and the following variables for each CIPP shall be as provided elsewhere within the specifications for this project:

H = Height of soil above crown of pipe (ft)
Bd = Trench width (ft)
w = Soil Density (lb/ft3)
Bc = Diameter of Pipe (in)
P = Wheel Load (lb)
Hw = Height of Water above top of pipe (ft)

No change of the materials, design values, or procedures as bid may be made without the prior written approval of the Engineer.

Any liner may be inspected by the Engineer for compliance with the specifications at any location including the manufacturing plant and the wet-out facility.

At the time of manufacture, each lot of tube liner shall be inspected for defects. At the time of delivery, the liner shall be homogeneous throughout, uniform in color, free of cracks, holes, foreign materials, blisters, and deleterious faults.

The Engineer may at any time direct the manufacturer to obtain compound samples and prepare test specimens in accordance with the latest applicable ASTM standards.

The wet out Tube shall have uniform thickness that when compressed at installation pressures will meet or exceed the Design thickness. The tube shall be constructed to withstand installation pulling force stresses and pressures, have sufficient strength to bridge missing portions of pipe, and stretch to fit irregular pipe sections. The Tube shall be sized such that when installed it will tightly fit the internal circumference and length of the original pipe. Allowance should be made for circumferential stretching during inversion. Overlapped layers of felt in longitudinal seams that cause lumps in the final product shall not be utilized.

The outside layer of the Tube (before wet out) shall be coated with an impermeable, flexible membrane that will contain the resin and facilitate monitoring of resin saturation during the resin impregnation (wet out) procedure. The external foils shall consist of one or more layers of tube-shaped plastic foils which are resistant and impermeable to moisture, are impermeable to styrene in cases where styrene based resin is used, and are light proof in cases where a ultraviolet light cured resin is used.

The Tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated elastomeric layers. No material shall be included in the tube that may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident. The tube shall not have large wrinkles. All fins shall be removed from the liner after inspection.

Installation: If the cured CIPP does not fit tightly against the original pipe at the termination points, the space between the existing pipe and the CIPP should be sealed by filling with a resin mixture compatible with the CIPP.

Fit and Finish: The wall color of the interior pipe surface of the CIPP after installation shall be a light reflective color so that a clear detailed examination with closed-circuit television inspection equipment may be made. Seams in the tube shall be stronger than the non-seamed felt. The liner should be seamless in

its cured state to insure homogenous physical properties around the circumference of the cured liner.

The cured CIPP shall be continuous over the entire length of an installation run and free of dry spots, lifts, and de-laminations. The cured CIPP shall be homogeneous throughout and free of any wrinkles, protrusions, holes, cracks, foreign material, blisters, or other deleterious faults or defects. The finished liner shall tightly conform to the walls of the existing culvert pipe.

Defects: Defects which the Engineer determines will affect the CIPP's structural integrity, hydraulic performance, future maintenance access, or overall pipeline performance shall be removed and replaced or repaired in a manner meeting these project specifications and meeting the approval of the Engineer and no additional compensation will be allowed.

Testing: Sufficient CIPP samples to ensure adequate supply of specimens for testing shall be provided in accordance with Section 7.1.1.1 or 7.1.2 of ASTM F2019 for each existing culvert nominal diameter pipe size lined for this project. Testing shall be performed by an independent third party certified laboratory.

The following tests shall be performed on the CIPP samples and reported:

• Short Term Flexural Properties of modulus of elasticity and flexural strength pursuant to Section 7.1.3.1 of ASTM F2019 (ASTM D790)

• CIPP Wall Thickness pursuant to ASTM D2122

The following tests shall be performed and reported by third party independent laboratories on the exact same resin and liner material combination used on this project, but not required to be from CIPP samples generated on this project:

• Long Term Flexural Properties of modulus of elasticity and flexural strength pursuant to ASTM 2990

• Chemical resistance in accordance with ASTM F1216, Appendix X2

Submittals: The following documentation shall be submitted to the Engineer in the manner stated:

• Documentation acceptable to the Engineer of the minimum installations, Supervisor experience and Manufacturer experience must be submitted with the Request for Authorization to Bid, including project description, project location, and municipal and/or engineering contacts.

• Log by location of conditions that may prevent proper installation of the resin impregnated tube as well as the curing and performance of the CIPP shall be provided to the Engineer immediately upon the completion of the inspection of each pipe culvert.

• The closed-circuit television recordings, logs, and findings of the pre-installation inspection of the existing pipeline shall be submitted on media and in a format meeting the approval of the Engineer.

• The name of the liner and resin manufacturer, the location of the facility where each are manufactured, and a list of appurtenant materials and accessories to be furnished shall be submitted to the Engineer prior to or together with the structural design thickness calculations.
• Independent third party certified laboratory test reports demonstrating that the exact same resin and liner material combination to be used for this project meets the requirements for initial structural properties and chemical resistance in accordance with the requirements for testing herein.

• The internal diameter of each pipe culvert and the structural design thickness calculations and specification data listing all parameters used in those calculations shall be submitted to the Engineer for approval prior to ordering the tube. Approval of the design by the Engineer is required prior to ordering the tube.

• Available written warranties from the manufacturer of the wet-out liner.

• All curing records.

• The closed-circuit television recordings, log, and findings of the post-installation inspection of the CIPP shall be submitted on media and in a format meeting the approval of the Engineer.

The Contractor has the option of the following procedures for Cured-In-Place Pipe Lining.

PROCEDURE 1: THERMOSETTING RESIN CURED-IN-PLACE PIPE (THERMO CIPP): The special provision for Cured-In-Place Pipe Lining (CIPP) above shall apply to and govern the work of this item except as specifically modified herein. The resin system shall be cured by exposure to mixed air and steam or hot water.

Materials: The sewn Tube shall consist of one or more layers of absorbent non-woven felt fabric and meet the requirements of ASTM F1216. The minimum cured thickness of the tube shall be 15.0 mils for existing nominal 36” diameter pipe.

The resin system shall be a corrosion resistant polyester, vinyl ester, or epoxy and catalyst system that when properly cured within the tube composite meets the requirements of ASTM F1216, the physical properties herein, the special provision for Cured-In-Place Pipe Lining (CIPP), and those which are to be utilized in the design of the CIPP for this project.

Installation: The tube should be vacuum-impregnated with resin under controlled conditions. The volume of resin used should be sufficient to fill the voids in the tube material at a nominal thickness and diameter. The volume should be adjusted by adding 5 to 10% of excess resin for the change in resin volume due to polymerization and to allow for any migration of resin in the cracks and joints in the original pipeline.

The liner shall be installed using the inversion or pull-in method in accordance with ASTM F1216, Section 7. The impregnated tube shall be inserted through and expanded in the existing pipeline by approved methods and manufacturer’s specifications. A suitable heat source to cure the tube to manufacturer’s specifications shall be used to uniformly raise the temperature to affect a cure of the resin as recommended by the resin manufacturer. The heat source shall be fitted with suitable monitors to gage the temperature and pressure of incoming and outgoing curing supplies. Initial cure, post-cure, and cool-down pressures, temperatures, and time period requirements shall be as recommended by the resin manufacturer. Hot water or steam are acceptable mediums for curing.

PROCEDURE 2: ULTRAVIOLET LIGHT CURED GLASS REINFORCED PLASTIC CURED-IN-PLACE PIPE (UV GRP CIPP): The special provision for Cured-In-Place Pipe Lining (CIPP) above shall apply to and govern the work of this item except as specifically modified herein. The resin system shall be cured by exposure to ultraviolet light.

Materials: The sewn Tube shall consist of one or more layers of absorbent non-woven felt fabric and meet the requirements of ASTM F1216. The minimum cured thickness of the tube shall be 15.0 mils for existing nominal 36” diameter pipe.

The resin system shall be polyester, vinylester, or orthothalic (either ppg or npg grade) depending on the choice of the engineer, with a catalyst system that when properly cured within the tube composite meets the physical properties of:

Flexural Modulus (minimum) 725,000 psi
Flexural Strength (minimum) 15,000 psi
Long term E-modulus 675,000 psi
Long term tensile bending strength 13,500 psi

Refrigeration of the wetted tube is not necessary regardless of distance. The liquid UV resin shall saturate the tube and produce a properly cured liner which is resistant to abrasion due to solids, grit, and sand. Resins created from recycled materials are not allowed. Polyester, vinyl ester and catalyst system shall meet the requirements of ASTM F1216, shall withstand the corrosive effects of existing residential, commercial, industrial and agricultural liquids and/or gases.

The glass fiber tubing shall include an exterior and interior film that protects and contains the polyester, vinylester or ortho based resin used in the liner and ensures the liner remains intact during the insertion process and protects the resin from water and debris contamination as well as resin migration during the installation and curing process. The exterior film shall be provided with a UV light blocker foil.

The wet out of the liner must be done in an indoor environmentally controlled manufacturing setting. No onsite wet out will be allowed.

Installation: A constant tension winch should be used to pull the glass fiber liner into position in the existing pipeline. The liner shall have a lateral fiberglass reinforcement band which runs the entire length of the liner ensuring that the pulling force is transferred to the band and not the fiberglass liner. Once inserted, end plugs shall be used to cap each end of the glass fiber liner to prepare for pressurizing the liner. The end plugs should be secured with straps to prevent them from being expelled due to pressure. Liner restraints should be used in manholes.

A slip sheet shall be installed on the bottom one third to one half of the existing pipeline prior to liner insertion, for the purpose of protecting the liner during insertion and reduce the drag, or as recommend by the liner manufacturer.

The glass fiber liner shall be cured with ultraviolet light sources at a constant inner pressure. When inserting the curing equipment in the liner, care should be taken to not damage the inner film material.

The ultraviolet light sources should be assembled according to the manufacturer’s specifications for the liner diameter. For the liner to achieve the required water tightness and specified mechanical properties, the following parameters must be controlled and recorded during the entire curing process to provide a record of the curing parameters over every segment of the entire length of the liner. The record of the controlled curing process shall demonstrate that the entire liner is cured properly.

The recording of the controlled curing process shall include:
Curing speed
Light source working & wattage
Inner air pressure
Curing temperatures
Date and time
Length of liner

The controlled curing process and its recording shall be accomplished using infrared sensors, a computer and a data base that are tamper proof. The record of the controlled curing process shall be submitted to the Engineer on the same computer media format as both the pre-installation and post-installation closed-circuit television recordings.

The optimal curing speed, or travel speed, of the energized ultraviolet light sources, shall be determined for each length of liner based on liner diameter, liner thickness, and exothermic reaction temperature.

The inner film material should be removed and discarded after curing to provide optimal quality of the final product.

Basis of Payment: The work of this item shall be paid at the contract unit price per FOOT for CURED-IN-PLACE PIPE LINING, of the diameter specified.

WEIGHT LIMITS: Legal weight limits shall be observed on Tazewell County highways, Road District roads and the structures they contain at all times. The Contractor shall apply for overweight and over dimension permits in advance to avoid delays in work.

BRIDGE WEIGHT LIMITS: Any loads traveling over a county structure over legal weight shall require a load rating be done to ensure that the structure has adequate capacity to support the load.

GENERAL NOTES: Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers and monuments until the owner, and authorized surveyor or agent has witnessed or otherwise referenced their location.

TIME SCHEDULE: The specified completion date for this project is November 15, 2021.

WAGES OF EMPLOYEES ON PUBLIC WORKS: Add the following to paragraph #1 of the Special Provision for Wages of Employees on Public Works, Check Sheet LRS#12: Prevailing wage rates may be obtained from the IDOL (Illinois Department of Labor) website at:

https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx

BDE SPECIAL PROVISIONS
For the July 30 and September 17, 2021 Lettings

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

	File Name	#		Special Provision Title	Effective	Revised
	80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	April 1, 2020
	80274	2	☐	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
	80192	3	☐	Automated Flagger Assistance Device	Jan. 1, 2008	
	80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	☐	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	
	80436	6	☐	Blended Finely Divided Minerals	April 1, 2021	
	80241	7	☐	Bridge Demolition Debris	July 1, 2009	
	5026I	8	☐	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5048I	9	☐	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5049I	10	☐	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5053I	11	☐	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80425	12	☐	Cape Seal	Jan. 1, 2020	Jan. 1, 2021
	80384	13	☐	Compensable Delay Costs	June 2, 2017	April 1, 2019
	80198	14	☐	Completion Date (via calendar days)	April 1, 2008	
	80199	15	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80293	16	☐	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
	80311	17	☐	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
	80261	18	☐	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80387	19	☐	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
	80434	20	☐	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
	80029	21	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
	80402	22	☐	Disposal Fees	Nov. 1, 2018	
	80378	23	☐	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
	80421	24	☐	Electric Service Installation	Jan. 1, 2020	
	80415	25	☐	Emulsified Asphalts	Aug. 1, 2019	
	80423	26	☐	Engineer's Field Office and Laboratory	Jan. 1, 2020	
	80229	27	☐	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80417	28	☐	Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
	80420	29	☐	Geotextile Retaining Walls	Nov. 1, 2019	
	80433	30	☐	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	
	80304	31	☐	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2020
	80422	32	☐	High Tension Cable Median Barrier	Jan. 1, 2020	Nov. 1, 2020
	80416	33	☐	Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
	80398	34	☐	Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
*	80406	35	☐	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Jan. 1, 2019	July 1, 2021
	80347	36	☐	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
	80383	37	☐	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2019
*	80411	38	☐	Luminaires, LED	April 1, 2019	July 1, 2021
	80393	39	☐	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 1, 2019
	80045	40	☐	Material Transfer Device	June 15, 1999	Aug. 1, 2014
	80418	41	☐	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
	80424	42	☐	Micro-Surfacing and Slurry Sealing	Jan. 1, 2020	Jan. 1, 2021
	80428	43	☑	Mobilization	April 1, 2020	
	80412	44	☐	Obstruction Warning Luminaires, LED	Aug. 1, 2019	
	80430	45	☐	Portland Cement Concrete – Haul Time	July 1, 2020	
	80359	46	☐	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019

	80431	47	☐	Portland Cement Concrete Pavement Patching	July 1, 2020	
	80432	48	☐	Portland Cement Concrete Pavement Placement	July 1, 2020	
	80300	49	☐	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
	3426I	50	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
	80157	51	☐	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
	80306	52	☐	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 2, 2021
	80407	53	☐	Removal and Disposal of Regulated Substances	Jan. 1, 2019	Jan. 1, 2020
*	80419	54	☐	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	July 1, 2021
	80395	55	☐	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
	80340	56	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
	80127	57	☐	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
	80408	58	☐	Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	
	80413	59	☐	Structural Timber	Aug. 1, 2019	
	80397	60	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	61	☐	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	62	☐	Submission of Payroll Records	April 1, 2021	
	80435	63	☐	Surface Testing of Pavements – IRI	Jan. 1, 2021	April 1, 2021
	80298	64	☐	Temporary Pavement Marking	April 1, 2012	April 1, 2017
	80409	65	☐	Traffic Control Devices - Cones	Jan. 1, 2019	
	80410	66	☐	Traffic Spotters	Jan. 1, 2019	
	20338	67	☐	Training Special Provisions	Oct. 15, 1975	
	80318	68	☐	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
	80429	69	☐	Ultra-Thin Bonded Wearing Course	April 1, 2020	
	80288	70	☐	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
	80302	71	☐	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
	80414	72	☐	Wood Fence Sight Screen	Aug. 1, 2019	April 1, 2020
	80427	73	☐	Work Zone Traffic Control Devices	Mar. 2, 2020	
	80071	74	☐	Working Days	Jan. 1, 2002	

The following special provisions are in the 2021 Supplemental Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80277	Concrete Mix Design – Department Provided	Check Sheet #37	Jan. 1, 2012	April 1, 2016
80405	Elastomeric Bearings	Article 1083.01	Jan. 1, 2019	
80388	Equipment Parking and Storage	Article 701.11	Nov. 1, 2017	
80165	Moisture Cured Urethane Paint System	Article 1008.06	Nov. 1, 2006	Jan. 1, 2010
80349	Pavement Marking Blackout Tape	Articles 701.04, 701.19(f), 701.20(j) and 1095.06	Nov. 1, 2014	April 1, 2016
80371	Pavement Marking Removal	Articles 783.02-783.04, 783.06 and 1101.13	July 1, 2016	
80389	Portland Cement Concrete	Article 1020.04 Table 1 and Note 4	Nov. 1, 2017	
80403	Traffic Barrier Terminal, Type 1 Special	Articles 631.04 and 631.12	Nov. 1, 2018	

The following special provisions have been deleted from use.

File Name	Special Provision Title	Effective	Revised
80317	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	Aug. 1, 2019

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Coordination and Implementation section will then include the information in the applicable special provision.

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal – Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

MOBILIZATION (BDE)

Effective: April 1, 2020

Replace Articles 671.02(a), (b), and (c) of the Standard Specifications with the following:

"(a) Upon execution of the contract, 90 percent of the pay item will be paid.

(b) When 90 percent of the adjusted contract value is earned, the remaining ten percent of the pay item will be paid along with any amount bid in excess of six percent of the original contract amount."

80428

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

Tazewell County

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

SCHEDULE OF CURED-IN-PLACE PIPE CULVERTS

1 Towerline Rd. (CH 11) - Sta. 52+94 North side of Hilst Rd.

Existing 76' x 30" CMP

2 Manito Rd. (CH 16) - Sta. 46+65 Approximately 1175' West of Wagonseller Rd.

Existing 120' x 36" CMP

GENERAL HIGHWAY MAP
TAZEWELL COUNTY
ILLINOIS

PREPARED BY THE
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING AND PROGRAMMING

IN COOPERATION WITH
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE FOR MAIN MAP

0 1 2 3 4 5 Miles
0 5,000 10,000 15,000 20,000 25,000 Feet
0 1 2 3 4 5 6 7 8 Kilometers

SCALE FOR ENLARGEMENTS

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 Miles
0 1,000 2,000 3,000 4,000 5,000 Feet
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 Kilometers

Legend

- Interstate, U. S., IL.
- FAP 823 — FA Primary Route
- 1616 — FA Secondary Route
- 3 — County Highway
- Paved (Access Controlled)
- Bituminous (Access Controlled)
- Paved (Divided)
- Bituminous (Divided)
- Paved (Undivided)
- Bituminous (High Type)
- Bituminous (Low Type)
- Gravel and Stone
- Soil Surface
- Frontage Road
- Municipal Road
- Structure
- Highway Interchange
- Incorporated City / Town / Village
- Unincorporated Village
- County Seat
- County Boundary
- State Boundary
- Civil Township or Road District Boundary
- Survey Township Line
- Survey Section Line
- National Forest Boundary
- National Forest Purchased Area
- State Park, Conservation Area or Forest
- Railroad
- Gumry Cr. — Stream
- Waterway / Lake
- TF — Toll Ferry; FF — Free Ferry
- HS — Historic Site; RA — Rest Area
- WS — Weight Station; TP — Toll Plaza
- Other Point of Interest
- State Police District Station
- Commercial Airport with Scheduled Service
- General Aviation Airport
- Military Airport

INSET 1 — INSET 2 — INSET 3 — INSET 4 — INSET 5 — INSET 6 — INSET 7 — INSET 8 — INSET 9 — INSET 10 — INSET 11

INDEX TO TOWNSHIP MAP SHEETS

WASHINGTON (2) · FON DU LAC (1) · GROVELAND (3) · MORTON (5) · CINCINNATI (4) · ELM GROVE (6) · TREMONT (8) · SAND PRAIRIE (9)

DATA SOURCES:
ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS STATE TOLL HIGHWAY AUTHORITY
ILLINOIS DEPARTMENT OF NATURAL RESOURCES
ILLINOIS STATE GEOLOGICAL SURVEY
ILLINOIS COMMERCE COMMISSION
ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS HISTORIC PRESERVATION AGENCY
UNITED STATES GEOLOGICAL SURVEY
ILLINOIS DEPARTMENT OF REVENUE
UNITED STATES DEPARTMENT OF COMMERCE
ILLINOIS STATE POLICE
UNITED STATES DEPARTMENT OF AGRICULTURE
MAYTAG (TM)

FOR DETAILED INFORMATION OF CONGESTED AREAS
SEE CITY OR TOWNSHIP MAPS.

POPULATION: 128,485 (2000 CENSUS)
TOTAL AREA: 649 SQUARE MILES.

25,000 FOOT GRID BASED ON ILLINOIS
STATE PLANE COORDINATES (WEST ZONE).

THE RURAL REFERENCE SYSTEM USES THE SECTION LINE GRID
PROGRESSIVELY NUMBERED NORTH FROM THE COUNTIES SOUTHERNMOST
SECTION LINE AND EAST FROM ITS WESTERNMOST SECTION LINE.

N

THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S MAPS USE DATA FROM EXTERNAL ELECTRONIC SOURCES THAT ARE NOT CONTROLLED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE DEPARTMENT TAKES NO RESPONSIBILITY FOR THE VIEWS, CONTENT, OR ACCURACY FOR ANY SUCH INFORMATION PROVIDED FROM SUCH EXTERNAL SOURCES. THIS PRODUCT IS FOR REFERENCE PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS A LEGAL DOCUMENT OR SURVEY INSTRUMENT. THE ACCURACY OF ANY MAP PRODUCT IS DEPENDENT ON THE SOURCE DATA AND THE SCALE OF THE MAP. NO WARRANTY IS EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF SUITABILITY TO A PARTICULAR PURPOSE OR USE. ANY RELIANCE ON THE INFORMATION CONTAINED HEREIN IS AT THE USER'S OWN RISK. THE ILLINOIS DEPARTMENT OF TRANSPORTATION CAN NOT BE HELD LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA, PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE, OR OTHER ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION HEREIN PROVIDED.

LAST REVISED: 04-19-2010

TAZEWELL COUNTY
Sec. 21-00000-10-GM

TABULATION OF QUANTITIES

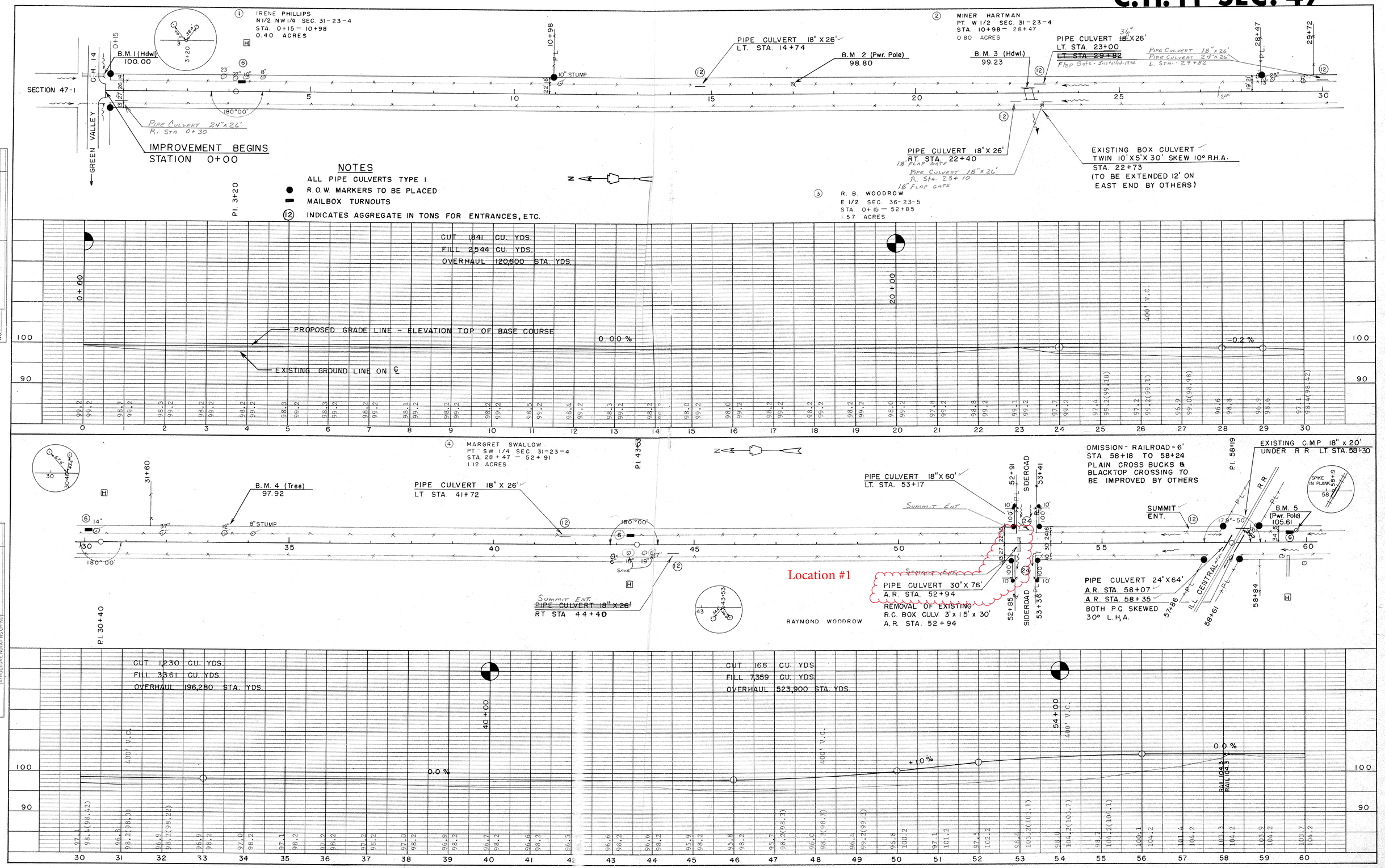
	Location			
Pay Item	1	2	Total	
CURED-IN-PLACE PIPE LINING 30"	76	0	76	FOOT
CURED-IN-PLACE PIPE LINING 36"	0	120	120	FOOT
MOBILIZATION			1	L SUM

Tazewell County
Section 21-00000-10-GM
Cured-In-Place Pipe Lining (CIPP)
Structural Thickness Design Variables

Location	Road Name	Co. Hwy Number	Station	H [ft]	Bd [ft]	w [lb/ft^3]	Bc [in]	P [lb]	Hw [ft]
1	Towerline	11	52+94	5.5	2.5	120	30	20,000	5.2
2	Manito	16	46+65	11.2	3.0	120	36	20,000	10.8

H = Height of Soil Above Crown of Pipe (ft)
Bd = Trench Width (ft)
w = Soil Density (lb/ft^3)
Bc = Diameter of Pipe (in)
P = Wheel Load (lb)
Hw = Height of Water Above Top of Pipe (ft)

C.H. 11 SEC. 47



PLAN — NOTE BOOK NO. — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M.'S NOTED — STRUCTURE NOTATIONS CH'KD — BY — DATE

FLATE 2 - PLAN - PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

K & E Co. No. 347-2R ALBANENE 1956 MADE IN U.S.A. 23673

Across Road Culverts

95

29'

27'

STA. 133+00
24" X 56'

100

STA. 64+30
24" X 56'
SKEWED 10°

100

STA. 58+35
24" X 64'
SKEWED 30°

100

STA. 58+07
24" X 64'
SKEWED 30°

Location #1

100

STA. 52+94
30" X 76'

95

STA 22+73
361 10x5 Box - Skewed 10° RA

FINAL SURVEY
SURVEYED
PLOTTED
TRACED
NOTE BOOK
AREAS
NO.
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
SURVEYED
PLOTTED
TRACED
NOTE BOOK
AREAS
NO.
AREAS CHECKED
BY
DATE

PLATE 3, CROSS SECTION
KEUFFEL & ESSER CO.
48 7056 ALBANENE DRAWING PAPER
MADE IN U.S.A.