



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 10, 2025

SUBJECT FAP Route 326 (IL 47)
Project NHPP-ITEP-BKZI(697)
Section 2024-1052-N,C, SW, FL
McHenry County
Contract No. 62X94

Item No. 170, April 25, 2025 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised the Schedule of Prices
2. Revised page i-iv of the Table of Contents to the Special Provisions
3. Revised page 3-11, 78, 262, 271-272, 282-283, 287-289 of the Special Provisions
4. Added pages 272A-272B to the Special Provisions
5. Revised sheets 1, 3, 19-39E, 61, 92, 118, 146-149, 151, 159-161, 163-175, 183-185, 187, 204, 235, 244, 248, 256-258-, 260-261, 263-268, 295-296, 299-300, 302-307, 519, 540-541, 630, 632-634, 636, 639, 642-644, 646, 683-684, 686G, 698, 709-712, 714-720, 722-728, 733-734, 829-830, 853, 856- 857, and 859 of the Plans
6. Added sheets 859A and 859B to the Plans

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.
Bureau Chief, Design and Environment

MTS

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PROSECUTION OF WORK

Add the following to Article 108.03 of the Standard Specifications as follows:

"The Contractor will not be allowed to proceed with construction operations until April 1, 2026. The Engineer's written approval shall be obtained by the Contractor before proceeding with any work on this project.

Trees measuring 3 inch diameter or greater at a point of 4.5 feet above the highest ground level at the base of the tree shall only be removed or cleared between November 1 and March 30. No additional compensation or extension of time will be allowed to comply with this tree removal restriction.

Tree removal may be allowed prior to April 1, 2026 at the discretion of the Engineer."

COMPLETION PLUS WORKING DAYS (D1)

Effective: September 30, 1985

Revised: January 1, 2007

Revise Article 108.05 (b) of the Standard Specifications as follows:

"When a completion date plus working days is specified, the Contractor shall complete all contract items and safely open all roadways to traffic by 11:59 PM on, **October 31, 2028**, except as specified herein.

The Contractor will be allowed to complete all clean-up work and punch list items within **15** working days after the completion date for opening the roadway to traffic. Under extenuating circumstances the Engineer may direct that certain items of work, not affecting the safe opening of the roadway to traffic, may be completed within the working days allowed for clean up work and punch list items. Temporary lane closures for this work may be allowed at the discretion of the Engineer.

Article 108.09 or the Special Provision for "Failure to Complete the Work on Time", if included in this contract, shall apply to both the completion date and the number of working days."

STATUS OF UTILITIES (D1)

Effective: June 1, 2016

Revised: April 1, 2025

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Department's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

Utilities To Be Adjusted: Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be

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required to obtain the necessary permits to complete their work; in some instances, resolution will be a function of the construction staging. The responsible agency must relocate, or complete new installations as noted below; this work has been deemed necessary to be complete for the Department's contractor to then work in the stage under which the item has been listed.

Pre-Stage

STAGE / LOCATION	TYPE	DESCRIPTION	RESPONSIBLE AGENCY	DURATION OF TIME
IL47 Sta. 94+00 to Sta. 208+08.64 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days
IL 47 Sta. 114+93 (LT & RT); Sta. 138+54 to Sta.140+67 (RT)	Underground Electric	Existing utilities conflict with proposed improvements	ComEd	365 days
Southview Sta. 205+43 to Sta. 207+70 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days
Lake Ave Sta. 172+02 to Sta. 183+30 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer, water main, and widened roadway	ComEd	365 days
Lake Ave Sta. 172+80 to Sta. 180+82 (RT)	Underground Electric	Existing utilities conflict with proposed improvements	ComEd	365 days
McConnell Rd Sta. 137+50 to Sta. 140+45 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and water main	ComEd	365 days
Country Club Rd/South St Sta. 111+87 to Sta. 116+20 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days
Country Club Rd/South St Sta. 114+05 to Sta. 116+10 (LT)	Underground Electric	Existing utilities conflict with proposed improvements	ComEd	365 days
Judd St Sta. 108+98 to Sta. 111+84 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days

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Irving Ave Sta. 201+23 to Sta. 203+51 (LT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days
IL120 Sta. 63+21 to Sta. 71+47 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	ComEd	365 days s
IL47 Sta. 94+00 to Sta. 208+08.64 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
IL47 Sta. 93+60 to Sta. 96+75 (LT); Sta. 105+80 to Sta. 106+75 (LT & RT); Sta. 108+64(RT); Sta. 110+70 to Sta. 113+60 (LT); Sta. 111+85 (LT & RT); Sta. 111+88 to Sta. 113+57(RT); Sta. 122+40(RT); Sta. 130+30 to Sta. 135+90(RT); Sta. 160+00 (LT & RT)	Underground Telephone Fiber Optic / copper cable, manholes, handholes, and splice boxes	Existing utilities conflict with proposed improvements	AT&T	500 days after ComEd and Comcast completion
Southview Sta. 205+43 to Sta. 207+70 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
Lake Ave Sta. 172+02 to Sta. 183+30 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer, water main, and widened roadway	AT&T	500 days after ComEd and Comcast completion
Lake Ave Sta. 179+05 to Sta. 182+45 (LT& RT)	Underground Telephone	Existing utilities conflict with proposed improvements	AT&T	500 days after ComEd and Comcast completion
McConnell Rd Sta. 137+50 to Sta. 140+45 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and water main	AT&T	500 days after ComEd and Comcast completion

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Country Club Rd/South St Sta. 111+87 to Sta. 116+20 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
Judd St Sta. 108+98 to Sta. 111+84 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
Irving Ave Sta. 201+23 to Sta. 203+51 (LT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
IL120 Sta. 63+21 to Sta. 71+47 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	AT&T	500 days after ComEd and Comcast completion
IL47 Sta. 94+00 to Sta. 208+08.64 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion
IL 47 Sta. 102+19 to Sta. 106+05 (LT); Sta. 112+00 (LT & RT); Sta. 116+32(RT); Sta. 122+35 to Sta. 122+45 (RT)	Underground Fiber Optic & Cable TV	Existing utilities with proposed improvements	Comcast	120 days after ComEd and Comcast completion
Southview Sta. 205+43 to Sta. 207+70 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion
Lake Ave Sta. 172+02 to Sta. 183+30 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer, water main, and widened roadway	Comcast	120 days after ComEd and Comcast completion
McConnell Rd Sta. 137+50 to Sta. 140+45 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and water main	Comcast	120 days after ComEd and Comcast completion
Country Club Rd/South St Sta. 111+87 to Sta. 116+20 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion

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Judd St Sta. 108+98 to Sta. 111+84 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion
Irving Ave Sta. 201+23 to Sta. 203+51 (LT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion
IL120 Sta. 63+21 to Sta. 71+47 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Comcast	120 days after ComEd and Comcast completion
IL47 Sta. 94+00 to Sta. 208+08.64 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
IL 47 Sta. 94+60 to Sta. 99+00 (RT); Sta.100+55 to Sta. 100+90(RT); Sta. 106+15 to Sta. 115+42(RT); Sta. 129+02 (LT & RT); Sta. 129+02 to Sta. 133+22(LT); Sta. 137+56 to Sta. 144+45 (LT & RT); Sta. 183+13 to Sta. 186+55 (RT & LT); Sta. 190+76 (LT & RT)	Underground Fiber Optic	Existing utilities conflict with proposed improvements	Everstream	90 days after ComEd and Comcast completion
Southview Sta. 205+43 to Sta. 207+70 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
Lake Ave Sta. 172+02 to Sta. 183+30 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer, water main, and widened roadway	Everstream	90 days after ComEd and Comcast completion
McConnell Rd Sta. 137+50 to Sta. 140+45 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and water main	Everstream	90 days after ComEd and Comcast completion

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Country Club Rd/South St Sta. 111+87 to Sta. 116+20 (LT & RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
Judd St Sta. 108+98 to Sta. 111+84 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
Irving Ave Sta. 201+23 to Sta. 203+51 (LT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
IL120 Sta. 63+21 to Sta. 71+47 (RT)	Aerial Lines and Poles	Poles in conflict with proposed storm sewer and widened roadway	Everstream	90 days after ComEd and Comcast completion
Lake Ave Sta. 167+77 to 183+50 (RT)	Underground Fiber Optic	Existing utilities conflict with proposed improvements	MCI/Verizon Business	35 days
IL 47 Sta. 93+00 to Sta. 94+00 (RT); Sta. 105+50 to Sta. 138+75(RT);	Underground Fiber Optic	Existing utilities conflict with proposed improvements	Midwest Networks Fiber	60 days
McConnell Rd Sta. 138+50 to Sta. 140+17 (RT)	Underground Fiber Optic	Existing utilities conflict with proposed improvements	Midwest Networks Fiber	60 days
South St/County Club Rd Sta. 112+50 to 117+25 (RT)	Underground Fiber Optic	Existing utilities conflict with proposed improvements	i3 Broadband	Relocated
IL47 Sta. 208+55 (LT & Grove Street) to Sta. 210+35 (RT)	Underground Fiber Optic	Existing utilities conflict with proposed storm sewer, sanitary sewer, and water main	City of Woodstock	50 days
Lake Ave Sta. 169+25 to Sta. 183+20 (RT)	Underground Fiber Optic	Existing utilities conflict with proposed improvements	City of Woodstock	50 days
IL 47 Sta. 131+00 to Sta. 182+15 (LT & RT)	High Pressure Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days

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IL 47 Sta. 91+00 to Sta. 131+00 (LT & RT); Sta. 182+15 to Sta. 209+00 (LT & RT)	Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
Lake Ave Sta. 178+79 to Sta. 183+20 (LT & RT)	High Pressure Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
Lake Ave Sta. 169+43 to Sta. 178+79 (LT & RT)	Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
McConnell Rd Sta. 138+50 to Sta. 142+60 (LT & RT)	High Pressure Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
McConnell Rd Sta. 137+30 to Sta. 142+60 (LT & RT)	Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
South St/County Club Rd Sta. 110+90 to Sta. 118+20 (LT & RT)	Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
Irving Ave Sta. 200+25 to Sta. 204+50 (RT)	High Pressure Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days
IL120 Sta. 62+60 to Sta. 72+60 (LT & RT)	Underground Gas Line	Existing utilities conflict with proposed improvements	Nicor Gas	250 days

The following contact information is what was used during the preparation of the plans as provided by the Agency/Company responsible for resolution of the conflict.

Agency/Company Responsible to Resolve Conflict	Name of contact	Phone	E-mail address
AT&T	Alexander Bryant; Jamie A. Gwin	630-573-6456; 630-573-5423	ab8652@att.com ; jg8128@atty.com
City of Woodstock	Chris Tiedt	815-338-6118	ctiedt@woodstockil.gov
Comcast	Louis Sarno; Nate Williams	224-465-0012; 224-355-7012	Louis_Sarno2@comcast.com ; Nate_Williams@comcast.com

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ComEd	Deji Akosile; Rebecca Lesnick	779-231-0781; 630-534-0622	deji.akosile@comed.com ; rebecca.lesnick@comed.com
Everstream	Gino Esposito	224-423-2909	gesposito@everstream.net
G4S Technology	Douglas Gone		Douglas.gones@usa.g4s.com
i3 Broadband	JD Spets	309-670-5217	john.spets@i3broadband.com
Midwest Fiber Networks	Cory Schmuki	414-459-3561	cschmuki@midwestfibernetworks.com
Nicor Gas	Charles "Chip" Parrott; Karey Johnson	630-388-3319; 630-388-2923	cparrot@southernco.com ; karejohn@southernco.com
MCI/Verizon Business	Joe B. Chaney Jr.	312-617-2131	Joe.Chaney@Verizon.com

Utilities To Be Watched and Protected: The areas of concern noted below have been identified by following the suggested staging plan included for the contract. The information provided is not a comprehensive list of all remaining utilities, but those which during coordination were identified as ones which might require the Department's contractor to take into consideration when making the determination of the means and methods that would be required to construct the proposed improvement. In some instances, the contractor will be responsible to notify the owner in advance of the work to take place so necessary staffing on the owner's part can be secured.

Pre-Stage

STAGE / LOCATION	TYPE	DESCRIPTION	RESPONSIBLE AGENCY
Limits of Construction	Aerial and Underground Electric	Existing facilities within the limits of construction to be protected from damage by the Contractor. If excavation will be performed near poles or large equipment will be used near existing overhead lines, facility protection may be required. If facility protection is required, please call 1-800-334-7661 to create a ticket for line and/or pole protection as soon as possible.	ComEd
Limits of Construction	High Pressure Underground Gas Line	Facilities within the limits of construction to be protected by the Contractor	Nicor Gas
Limits of Construction	Underground Gas Line	Facilities within the limits of construction to be protected by the Contractor	Nicor Gas

	Aerial and Underground Telephone Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	AT&T
	Aerial and Underground Fiber Optic & Cable TV	Facilities within the limits of construction to be protected by the Contractor	Comcast
	Aerial Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	Everstream
	Underground Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	MCI/Verizon Business
	Underground Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	Midwest Fiber Networks
	Underground Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	i3 Broadband
	Underground Fiber Optic	Facilities within the limits of construction to be protected by the Contractor	City of Woodstock
IL 47 Sta. 148+85 RT	Sanitary Lift Station	Existing lift station to be protected from damage by the Contractor	Privately Owned (unknown)

The following contact information is what was used during the preparation of the plans as provided by the owner of the facility.

Agency/Company Responsible to Resolve Conflict	Name of contact	Phone	E-mail address
AT&T	Alexander Bryant; Jamie A. Gwin	630-573-6456; 630-573-5423	ab8652@att.com ; jg8128@att.com
City of Woodstock	Chris Tiedt	815-338-6118	ctiedt@woodstockil.gov
Comcast	Louis Sarno; Nate Williams	224-465-0012; 224-355-7012	Louis_Sarno2@comcast.com ; Nate_Williams@comcast.com
ComEd	Deji Akosile; Rebecca Lesnick	779-231-0781; 630-534-0622	deji.akosile@comed.com ; rebecca.lesnick@comed.com
Everstream	Gino Esposito	224-423-2909	gesposito@everstream.net
i3 Broadband	JD Spets	309-670-5217	john.spets@i3broadband.com
Midwest Fiber Networks	Cory Schmuki	414-459-3561	cschmuki@midwestfibernetworks.com
Nicor Gas	Charles "Chip" Parrott; Karey Johnson	630-388-3319; 630-388-2923	cparrot@southernco.com ; karejohn@southernco.com
MCI/Verizon Business	Joe B. Chaney Jr.	312-617-2131	Joe.Chaney@Verizon.com

ABANDON AND FILL EXISTING STORM SEWER

Description. This work shall consist of filling existing sewers that are to be abandoned at the locations and sizes shown on the Plans or as directed by the Engineer.

Construction Requirements. Based on a review of available information it is believed that there are no existing active connections draining into the pipe to be abandoned. However, before the pipe is abandoned, the Contractor must field verify there are no existing active connections draining into the pipe to be abandoned. In the event there are existing active connections, the Contractor must either re-route the existing active connection or maintain the existing pipe so as not to block flow from the existing active connections at no additional cost.

After field verification there are no existing active connections draining into the pipe to be abandoned, the Contractor must plug the pipe with class SI concrete or brick and suitable mortar to the satisfaction of the Engineer, and fill the remaining empty length of pipe with controlled low-strength material. The CLSM must meet material requirements of Article 593.02.

Method of Measurement. This work will be measured for payment in feet for the pipe to be abandoned in place.

Basis of Payment. This work will be paid for at the contract unit price per FOOT for ABANDON AND FILL EXISTING STORM SEWER which price shall include all materials, labor, tools and equipment, backfilling of any excavation necessary at locations shown in the plans, as specified herein, and as directed by the Engineer.

CLEANING EXISTING SEWERS AND DRAINAGE STRUCTURES

Description. All existing storm sewers and combined sewers shall be considered as sewers insofar as the interpretation of this special provision is concerned. When specified for payment, the location of the sewer to be cleaned will be shown on the plans. All existing sewers which are specified to be cleaned on the plans will be cleaned according to Article 602.15 of the Standard Specifications.

Method of Measurement. **This work will be measured for payment in feet for the length of sewer that is to be cleaned. The cleaning of existing drainage structures connected to the storm sewer system shall not be measured separately but shall be incidental to the cleaning of the storm sewers.**

Basis of Payment. This work will be paid for at the contract unit price per FOOT for STORM SEWERS TO BE CLEANED, of the diameter specified and shall include cleaning of the connected existing drainage structures.

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The fittings shall be Listed under UL 514B. The insulated throat shall be rated up to 105° C."

Revise the second paragraph of Article 811.04 of the Standard Specifications to read:

"Expansion fittings and LFNC will not be measured for payment."

Revise Article 811.05 of the Standard Specifications to read:

"811.05 Basis of Payment. This work will be paid for at the contract unit price per FOOT for **CONDUIT ATTACHED TO STRUCTURE**, of the diameter specified, **RIGID GALVANIZED STEEL** or **CONDUIT ATTACHED TO STRUCTURE**, of the diameter specified, **RIGID GALVANIZED STEEL, PVC COATED.**"

ELECTRIC UTILITY SERVICE CONNECTION (COMED)

Effective: January 1, 2012

Description. This item shall consist of payment for work performed by ComEd in providing or modifying electric service as indicated. THIS MAY INVOLVE WORK AT MORE THAN ONE ELECTRIC SERVICE. For summary of the Electrical Service Drop Locations see the schedule contained elsewhere herein.

CONSTRUCTION REQUIREMENTS

General. It shall be the Contractor's responsibility to contact ComEd. The Contractor shall coordinate his work fully with the ComEd both as to the work required and the timing of the installation. No additional compensation will be granted under this or any other item for extra work caused by failure to meet this requirement. **Please contact ComEd, New Business Center Call Center, at 866 NEW ELECTRIC (1-866-639-3532) to begin the service connection process. The Call Center Representatives will create a work order for the service connection. The representative will ask the requestor for information specific to the request. The representative will assign the request based upon the location of project.**

The Contractor should make particular note of the need for the earliest attention to arrangements with ComEd for service. In the event of delay by ComEd, no extension of time will be considered applicable for the delay unless the Contractor can produce written evidence of a request for electric service within 30 days of execution.

Method Of Payment. The Contractor will be reimbursed to the exact amount of money as billed by ComEd for its services. Work provided by the Contractor for electric service will be paid separately as described under ELECTRIC SERVICE INSTALLATION. No extra compensation shall be paid to the Contractor for any incidental materials and labor required to fulfill the requirements as shown on the plans and specified herein.

For bidding purposes, this item shall be estimated as **\$30,000**.

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**IDOT DISTRICT 1 LUMINAIRE PERFORMANCE TABLE
 ROADWAY LIGHTING**

GIVEN CONDITIONS

Roadway Data	Pavement Width	24	Ft
	Number of Lanes Left of Median	2	
	Number of Lanes Right of Median	2	
	Lane Width	12	Ft
	Median Width	36	Ft
	IES Surface Classification	R3	
	Q-Zero Value	0.07	
Mounting Data	Mounting Height	47.5	Ft
	Mast Arm Length	15	Ft
	Pole Set-Back from Edge of Pavement	16	Ft
Luminaire Data	Source	LED	
	Color Temperature	4000	°K
	Lumens	25,200	Min
	Pay Item Lumen Designation	H	
	BUG Rating	B3-U0-G4	
	IES Vertical Distribution	Medium	
	IES Control of Distribution	Cutoff	
	IES Lateral Distribution	Type III	
Pole Layout Data	Total Light Loss Factor	0.75	
	Spacing	195	Ft
	Configuration	Opposite	
	Luminaire Overhang over E.O.P.	-1	Ft

NOTE: Variations from the above specified I.E.S. distribution pattern may be requested, and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

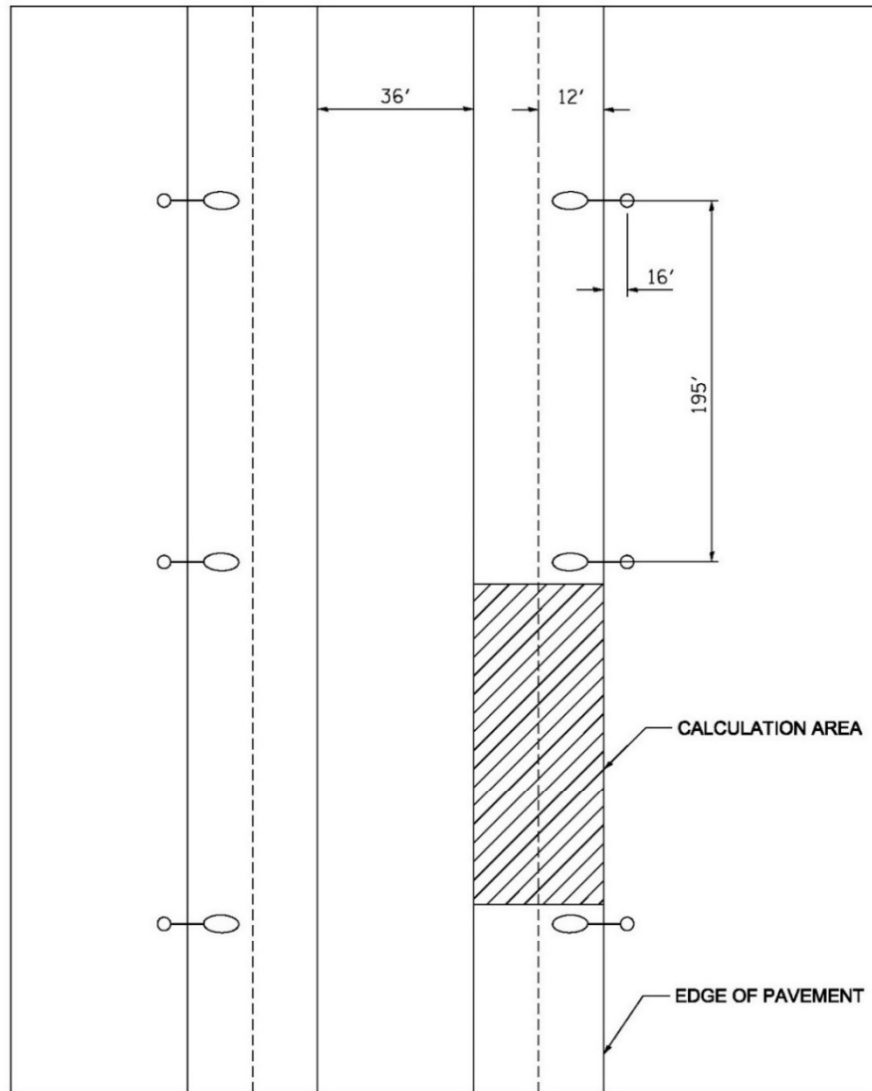
PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Roadway Luminance	Average Luminance, L_{AVE} (Max)	1.5	Cd/m ²
	Average Luminance, L_{AVE} (Min)	1.2	Cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	3.0	Max
	Uniformity Ratio, L_{MAX}/L_{MIN}	5.0	Max
	Veiling Luminance Ratio, L_V/L_{AVE}	0.3	Max

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US-14 Straight Section



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IDOT DISTRICT 1 LUMINAIRE PERFORMANCE TABLE
ROADWAY LIGHTING



GIVEN CONDITIONS

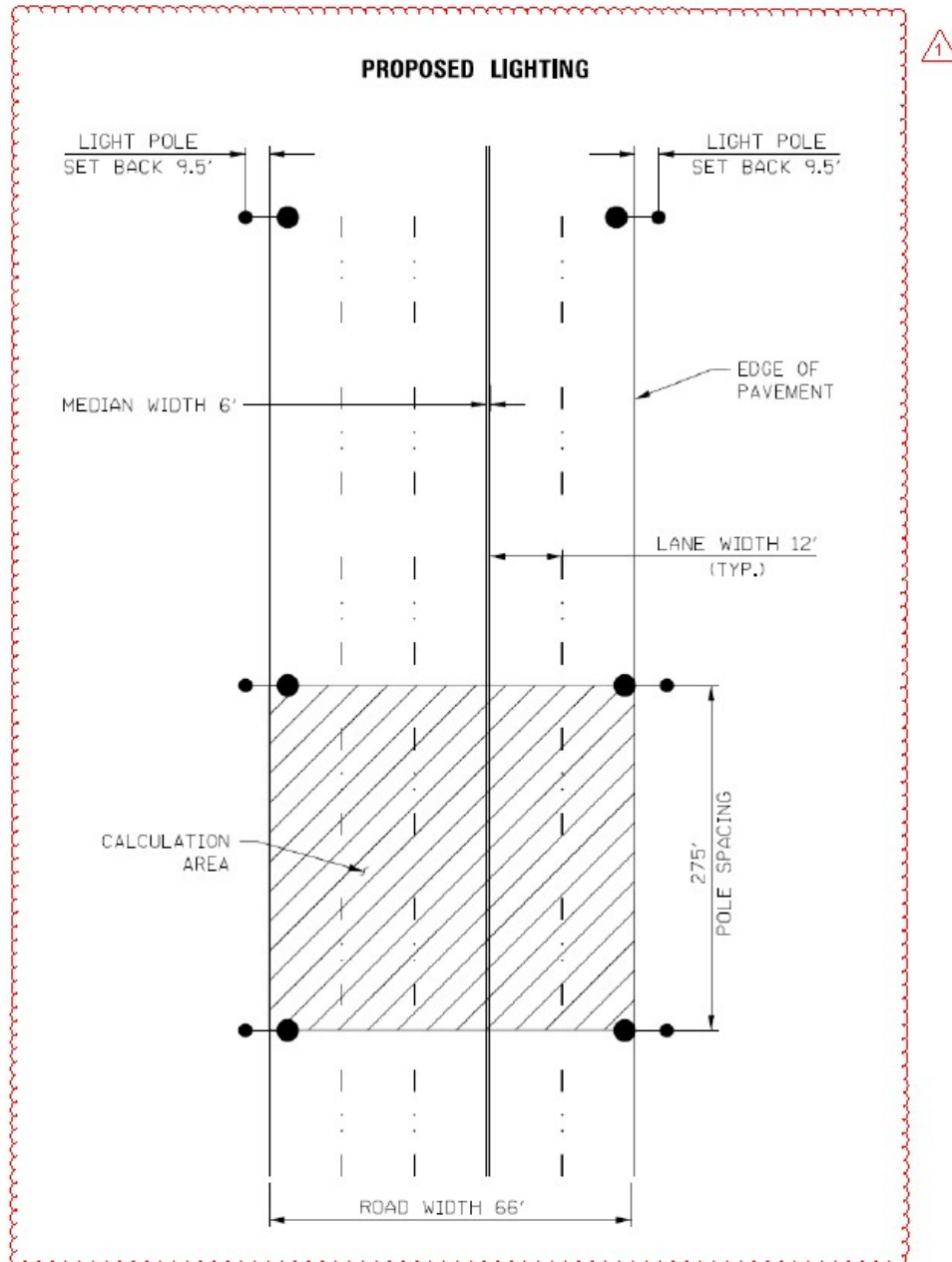
Roadway Data	Pavement Width	66	Ft
	Number of Lanes Left of Median	3	
	Number of Lanes Right of Median	2	
	Lane Width	12	Ft
	Median Width	6	Ft
	IES Surface Classification	R3	
	Q-Zero Value	0.07	
Mounting Data	Mounting Height	47.5	Ft
	Mast Arm Length	15	Ft
	Pole Set-Back from Edge of Pavement	9.5	Ft
Luminaire Data	Source	LED	
	Color Temperature	4000	°K
	Lumens	23,760	Min
	Pay Item Lumen Designation	G	
	BUG Rating	B3-U0-G3/G4	
	IES Vertical Distribution	Cutoff	
	IES Control of Distribution	Medium	
	IES Lateral Distribution	II/III	
Pole Layout Data	Total Light Loss Factor	0.70	
	Spacing	275	Ft
	Configuration	Opposite	
	Luminaire Overhang over E.O.P.	5.5	Ft

NOTE: Variations from the above specified I.E.S. distribution pattern may be requested, and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Roadway Luminance	Average Luminance, L_{AVE} (Max)	1.2	Cd/m ²
	Average Luminance, L_{AVE} (Min)	0.9	Cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	3:1	Max
	Uniformity Ratio, L_{MAX}/L_{MIN}	5:1	Max
	Veiling Luminance Ratio, L_V/L_{AVE}	0.3:1	Max



Method of Measurement. The assembly furnished and installed will be measured as each.

Basis of Payment. This item shall be paid at the contract unit price EACH for ORNAMENTAL LIGHT UNIT, COMPLETE, which shall be payment in full for the material and work described herein.

LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET

Description. This work shall consist of excavating, constructing, and backfilling offset light pole foundations in accordance with Section 836 of the Standard Specifications except as specified herein this special provision, and the details shown on the plans. Offset foundations shall be installed at locations where the utility conflict can be resolved by laterally offsetting the drilled shaft of the foundation.

The determination of foundation type shall be made in the field by the Engineer, based upon the actual locations of utilities. Payment will be made according to quantity of each foundation type installed, and no additional compensation will be allowed for subtractions or additions to contract quantities for the various foundation types.

Excavation, including shoring, material disposal, and pumping, bailing or otherwise draining the excavated area shall not be paid for separately, but shall be included in the contract unit price for offset foundations.

Backfilling and thoroughly compacting material conforming to Article 1004 and shall not be paid for separately, but shall be considered as included in the contract unit price for offset foundations. Concrete shall cure in accordance with Article 1020.13 before being backfilled.

Basis of Payment. Offset foundations will be measured for payment in accordance with Article 836.04 of the Standard Specifications, and paid at the contract unit price per FOOT for LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET.

TEMPORARY LIGHTING SYSTEM

Description. This work shall consist of providing an isolated, self-contained temporary lighting system at the McConnell Road roundabout. The proposed temporary lighting system is intended to illuminate the approaches and circulating roadway of the roundabout, either in an interim condition or prior to the activation of permanent lighting, in a configuration that meets with the approval of the Engineer. Generally, the quantity and locations of the temporary lighting units shall match the quantity and locations of the proposed permanent lighting system as depicted in the plans. Table 1 included herein provides an estimated quantity for the temporary lighting equipment proposed for installation at the McConnell roundabout. Any additional equipment needed for the complete installation of the proposed lighting system shall be considered included in this pay item.

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Temporary Lighting System Breakdown			
SP	Item	Unit	Quantity Roundabout
*	ELECTRIC SERVICE INSTALLATION	EACH	1
*	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	25
*	ELECTRIC CABLE IN CONDUIT, 800V (XLP-TYPE USE) 1/C NO. 2	FOOT	75
*	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	1000
	LIGHT POLE, WOOD, 80 FOOT, CLASS 3, WITH 15FT MAST ARM	EACH	9
*	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	9
*	TEMPORARY LIGHTING CONTROLLER	EACH	1
*	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	9

TABLE 1: ESTIMATED MCCONNELL RD ROUNDABOUT TEMPORARY LIGHTING QUANTITY

The Contractor shall provide all labor, material, and equipment necessary to furnish, install, maintain, and remove the temporary lighting system, and pay all utility charges associated with it. This work shall also include the relocation of temporary lighting facilities as necessary to accommodate the various stages of construction and removal of all temporary lighting facilities at the completion of the project. All work shall be performed in accordance with the plans, Standard Specifications, as directed by the Engineer, and as described herein.

General. While multiple significant adjustments to the Temporary Lighting System(s) are not anticipated, the Contractor must be prepared to submit for the Engineer's approval installation plan showing the proposed locations of all temporary poles for each stage of construction. Temporary poles shall be located a minimum of 17' from edge of traveled way. Any modifications by the Contractor to the lighting design shall meet with the approval of the Engineer. No poles shall be installed until the Contractor's revised detailed lighting design plan is approved by the Engineer.

No temporary lighting materials shall be purchased until the Contractor has submitted shop drawings and received the Engineer's approval to proceed. All temporary lighting equipment shall become property of the Contractor and shall be removed from the site at no additional cost to the contract. Any temporary lighting materials used by the Contractor which come from stock rather than being purchased new for this project shall require written approval by the Engineer.

The Contractor shall be responsible to maintain the temporary lighting system, once installed, for the duration of the project and no additional compensation will be allowed for this work, no matter how many times temporary and/or permanent lighting equipment is relocated. The Contractor shall provide the Engineer with the names and phone numbers of two persons available for call-out work on the lighting system 24 hours per day, seven days per week.

Cable splicing, luminaire fusing, and lightning protection shall be submitted for the Engineer's approval. All work required to keep the temporary and/or permanent lighting systems operational shall be at the Contractor's expense. No lighting circuit or portion thereof shall be removed from nighttime operation without the approval of the Engineer.

An inspection and approval by the Engineer shall take place before the temporary lighting system is approved for operation. Any damage to the existing lighting units and their circuitry as a result of the Contractor's workmanship shall be repaired or replaced to the satisfaction of the Engineer at no cost to the Department. All burnouts shall be replaced on a next day basis and temporary wiring shall be installed as necessary to keep all lights functioning every night.

The Contractor shall be responsible for all costs associated with providing service to the lighting system as the project progresses through the various stages of construction and circuit orientation changes. This shall include all costs of coordinating with the local utility for new and/or relocated electric service and metering

Basis of Payment. This work shall be paid for at the contract unit price per EACH for TEMPORARY LIGHTING SYSTEM.

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adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different G_{mb} and % AC_v .

For bituminous materials measured in gallons: $Q, \text{ tons} = V \times 8.33 \text{ lb/gal} \times SG / 2000$

For bituminous materials measured in liters: $Q, \text{ metric tons} = V \times 1.0 \text{ kg/L} \times SG / 1000$

Where: A = Area of the HMA mixture, sq yd (sq m).
D = Depth of the HMA mixture, in. (mm).
 G_{mb} = Average bulk specific gravity of the mixture, from the approved mix design.
V = Volume of the bituminous material, gal (L).
SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the BPI_L and BPI_P in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(BPI_L - BPI_P) \div BPI_L\} \times 100$$

Bituminous materials cost adjustments will be calculated for each calendar month in which applicable bituminous material is placed; and will be paid or deducted when all other contract requirements for the work placed during the month are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

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LIGHT POLE (SPECIAL)

Description. This item shall consist of furnishing and installing the pole in accordance with the Standard Specifications for Road and Bridge Construction adopted January 1, 2022, Section 830 unless otherwise indicated in this special provision or on the Woodstock – Aluminum Light Pole detail as shown on the plans.

Materials. The light pole shall include 2 – 1” Dia. breakaway banner arms. No banner arms are to be installed at signalized intersections or transition areas as indicated on the plans. The light pole mast arm shall be 15 ft. The light pole and mast arm shall have a polyester black paint finish to match the Ornamental Light Unit, Complete.

The light pole drawing shall be submitted to the City of Woodstock for approval prior to manufacture and shall be inspected and approved by the Engineer as coordinated with the City of Woodstock prior to installation.

Method of Measurement. Light Pole (Special) shall be counted as, each installed.

Basis of Payment. The work shall be paid for at the contract unit price per EACH for LIGHT POLE (SPECIAL), which price sh

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