



Local Public Agency Material Proposal or Deliver & Install Proposal



Proposal Submitted By:
 Contractor's Name

 Contractor's Address
 City State Zip Code

STATE OF ILLINOIS
 Local Public Agency County Section Number
 Whiteside County Whiteside 22-00228-01-BR
 Street Name/Road Name Type of Funds
 FAU 5560 (CH 3) Dixon Ave. Local / STP-Br

Material proposal Deliver and Install Proposal Plans

~~For a County and Road District Project~~

~~Submitted/Approved~~

~~Highway Commissioner Signature~~ ~~Date~~

Submitted/Approved

County Engineer/Superintendent of Highways Date

[Signature] *11/28/22*

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

Masoud Ahmadloo *11/30/22*

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

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- 5. 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 product 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 will be declared unacceptable if neither a unit price nor a total price is shown.
- 6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. The proposal guaranty as specified in the special provisions is attached.

If a bid bond is allowed or required, Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: _____ Treasurer of Whiteside 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 place 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 22-00228-01-BR).

Discounts will be allowed for payment as follows: _____ calendar days _____ calendar days

Discounts will not be considered in determining the low bidder

Bidder

By

Title

Address

City

State

Zip Code



Contractor's Name

Contractor's Address

City

State

Zip Code

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Route(s) (Street/Road Name)

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
-	FURNISHING SUPERSTRUCT	SQ FT	6175		
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.



Local Public Agency
Proposal Bid Bond



Local Public Agency: Whiteside County, County: Whiteside, Section Number: 22-00228-01-BR

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 _____ of _____ Day Month and Year

Principal signature block: Company Name, Signature, Date, Title

Principal signature block: Company Name, Signature, Date, 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 signature block: Name of Surety

Surety signature block: Signature of Attorney-in-Fact, Date

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 of _____ Month and Year

(SEAL)

Notary Public Signature

Date commission expires _____

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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

--

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The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted

January 1, 2022, 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:
 This work shall consist of the design, load rating, fabrication, manufacture, and delivery of the prefabricated superstructure units that include galvanized steel Press Brake Formed Tub Girders (PBFTG), precast concrete deck panels and backwalls, mechanical connectors, and bearing assembly according to the plans, Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction (Standard Specifications), and the provisions contained herein.

The individual superstructure units shall be manufactured and assembled at an off-site location so that the delivered product can be set in place and the deck and backwalls joined with closure pour material to form a complete superstructure system.

The individual superstructure units shall be stored by the fabricator until notified by the bridge contractor, after which the units shall be delivered to the Dixon Avenue Bridge over Howland Creek. Tub girders shall be ready for delivery by July 1st, 2023 and stored until their delivery date. The fabricator shall coordinate the delivery of the tub girders with the County and the bridge contractor to accommodate the staged construction of the proposed bridge as outlined in the bridge construction drawings and the bridge contractor's construction schedule. The supplier should anticipate at least 2 stages of construction.

The fabricator shall comply with and submit required material certifications and QC/QA documentation to meet IDOT requirements. Fabricator to provide adequate cribbing for use at time of delivery. The units shall be stored without damage, and any units damaged during transportation or storing shall be replaced in kind by the Contractor at no additional cost to Whiteside County. The individual, firm, partnership, joint venture, or corporation contracted with to supply the individual superstructure units is herein referred to as the Fabricator. Submittals indicated herein to be sent to Chastain & Associates LLC at the following address with an allowance of 30 calendar days for review:

Chastain & Associates LLC Attention: Curtis Cook, P.E. 6832 Stalter Dr #100
 Rockford, IL 61108

Design:
 The Fabricator shall retain the services of an Illinois Licensed Structural Engineer (Fabricator's SE) to design and detail the prefabricated superstructure system in accordance with the AASHTO LRFD Bridge Design Specifications and IDOT Bridge Design Manual. The design live loading and allowance for future wearing surface shall be as indicated on the plans. The design shall be accompanied with all required plan details and may be part of the shop drawings.

The superstructure details indicated in the plans are conceptual and the Fabricator's SE may propose modifications and alternate configurations of the PBFTG. However, the superstructure design must satisfy the bridge width, bridge deck cross slope, span length, concrete deck thickness, and not exceed the superstructure depth indicated in the plans.

The Fabricator's SE shall be responsible for the following design items:

1. PBFTG including determining material requirements and all dimensions and details including the need for any stiffeners, closure plates, etc. The PBFTG shall be designed to be composite with the concrete deck and include shear stud design.

The slab may either be cast directly onto the PBFTG or precast and connected to the PBFTG with shear studs using formed holes filled with nonshrink grout. If used, properties for the nonshrink grout shall be specified. Covered access holes shall be provided in the PBFTG to allow future video inspection inside the beam.

When determining the capacity of the composite section, the top half inch of the bridge deck shall be considered sacrificial. In addition, the top of deck (prior to placement of the overlay) shall conform to the lines and grades indicated in the plans once the prefabricated superstructure units are erected. As such, consideration shall be given to dead load deflection and the need to camber the PBFTG or specifying other provisions for adjusting the top of bridge deck.

2. The reinforcement required in the bridge deck using the clear cover indicated in the plans. Reinforcement required for the precast backwall including attachment to the bridge deck is also included. A minimum clear cover of 2 inches shall be used for the precast backwall and the backwall shall extend vertically to the bottom of the top bearing plate. All reinforcement shall be epoxy coated,

3. The bridge deck and backwall reinforced joints used to join the individual units and form a complete superstructure system. The Bridge Deck Joint Detail shown in the plans with reinforcement extending into the joint is conceptual and shall be designed and proportioned by the Fabricator's SE. A similar joint shall be designed for the vertical backwall joints. The joints shall be cast in the field using a closure pour material determined and specified by the Fabricator's SE as part of the joint design. See Closure Pour Material special provision for additional information.

4. Bearings provided beneath each of the PBFTG and anchor bolts. The bearings shall consist of a steel top bearing plate connected to the PBFTG and lower steel reinforced elastomeric bearing pad. In addition, the top bearing plate shall be connected to the abutments with at least one anchor bolt on each side of each PBFTG. The abutments have been detailed assuming a total bearing height of 2 1/8 inches. If the total designed bearing height varies from 2 1/8 inches, the Fabricator's SE shall determine the necessary adjustment to the abutment details shown in the plans.

5. Bridge deck design for connection of the Steel Railing Type 2399 to the deck. The bridge rail system and deck design for the railing connection shall satisfy AASHTO TL-3 safety requirements. Certifications shall be provided indicating that the deck design and railing connection satisfies this requirement. The vertical posts for the bridge rail are required to be located outside of the bridge deck. Post spacing shall be specified in accordance with the railing requirements.

6. Determine and specify the lifting locations for setting the prefabricated units at the project site. Specify the lifting reactions and any rigging configuration assumed in the analysis. Any required temporary bracing that is needed to ensure stability of the erected individual prefabricated superstructure units until the bridge deck and backwall closure joints have been completed shall also be specified.

A lifting/handling analysis shall also be performed for the precast concrete components if not cast directly on the PBFTG. The lifting/handling analysis shall be in accordance with the latest edition of the Precast/Prestressed Concrete Institute Design Handbook.

Regardless of how the precast concrete components are constructed, any minimum concrete strength requirements that are necessary prior to handling or shipping shall be specified.

7. The Supplier shall verify that the designed beam reactions do not exceed the reactions indicated in the plans for the abutment design. If the indicated reactions are exceeded, the Supplier shall verify the adequacy of the abutment design indicated in the plans with Chastain And Associates LLC or modify the abutment design as required after consultation with Chastain And Associates LLC.

Calculations and plan details (2 copies) with the required seals shall be submitted to Chastain and Associates LLC for review and approval. The submittal shall be made prior to ordering material or starting construction.

Rating:

The Fabricator's SE shall provide a Load Ratings submittal for the prefabricated bridge superstructure according to AASHTO Manual of Bridge Evaluation, Section 6, and IDOT Circular Letter 2017-16. The following ratings should be calculated:

1. Design Vehicle (Inventory & Operating Rating Factors)
2. Illinois Routine Permit Vehicles (Operating Rating Factor) - See IDOT Structural Services Manual Figure 4.5-1
3. Illinois Posting Vehicles (Operating Factor) - See IDOT Structural Services Manual Figures 4.4-6 for Single Unit Vehicles & 4.4-7 for Combination Vehicles
4. Emergency Vehicles (Operating Rating Factor with Single Lane Live Load Distribution Factor) EV2 and EV3 as indicated below:
 - Type EV2 - single rear axle emergency vehicles Front Single Axle: 24,000 pounds Rear Single Axle: 33,500 pounds Wheelbase: 15 ft
 - Type EV3 - tandem rear axle emergency vehicles Front Single Axle: 24,000 pounds Rear Tandem Axle: 62,000 pounds (two 31,000 pound axles spaced at 4 ft) Wheelbase: 17 ft (distance from front axle to the centerline of the rear tandem axle)

Perform the above Load Ratings using as-designed conditions and assuming the future wearing surface has been placed. IDOT prefers that the rating be performed using the "AASHTOWare Bridge Rating Software". However, if this is not an option, an Excel spreadsheet should be created that facilitates a rating check using the composite PBFTG flexural and shear capacities.

The items indicated below shall be submitted to the IDOT Local Bridge Unit using the following email address: DOT.LocalBridgeUnit@illinois.gov .

- SE Sealed Final Plans/As-Built Plans/Shop Drawings (each document should bear the seal of the SE responsible for the submitted item)
- Fabricator SE sealed Structure Load Rating Summary IDOT BBS Form 2795
- AASHTOWare BrR Model input file (with .xml extension) or Excel spreadsheet

Note: The spreadsheet supplied to IDOT will need the option to account for future deterioration so that the reduced flexural and shear capacity can be calculated. IDOT also requires indicating the design live load distribution factors to facilitate the comparison of applied moments and shears for other live load configurations to the allowable moment and shear loading.

- Any other load rating documentation needed to clarify modeling and analysis of the composite PBFTG including but not limited to:

- o Analysis software models

- o Software output in pdf format

- o Hand calculation in pdf format

- o Spreadsheets in pdf format

- o Any other supporting documentation in pdf format.

The rating information shall be submitted to IDOT after the design items and shop drawings have been approved. If structural modifications are made during construction that affect the load carrying capacity of the structure, revised rating information shall be submitted to IDOT.

Shop Drawings:

Shop drawings shall be submitted according the applicable portions of 505.03, 509.04, and 1042.03(b) of the Standard Specifications. Shop drawings shall be submitted for all components of the prefabricated superstructure units including the PBFTG beams, precast deck and backwalls, and bearings (including anchor bolts). Shop drawings shall indicate all physical dimensions, methods of fabrication and manufacture not covered by the Standard Specifications, material properties, method of connecting the precast concrete elements to the PBFTG, lifting locations and rigging configuration limitations, and all relevant information pertaining to the method of joining the individual prefabricated bridge superstructure elements at the project site. Items required in the previous sections to be determined by the Fabricator's SE but not being supplied by the Fabricator shall be clearly noted in the shop drawings as being supplied by others. Submit 2 copies of the shop drawings to Chastain and Associates LLC for review and approval. Shop drawings shall be sealed by the Fabricator's SE. Fabrication shall not begin until written approval of the shop drawings has been received from Chastain and Associates LLC.

Materials:

1. Concrete. Concrete shall satisfy the minimum material requirements in Section 504 of the Standard Specifications.

2. Structural Steel and Fasteners. All structural steel for the PBFTG beams shall be AASHTO M 270, of the Grade specified by the Fabricator's SE, in accordance with subsection 1006.04 of the Standard Specifications. The steel used to form the PBFTG shall conform to Impact Testing Requirement, Zone 2. Any required fasteners for the PBFTG shall be ASTM F 3125, Grade 325 Type 1. All structural steel for the PBFTG and fasteners shall be galvanized in accordance with the Hot Dip Galvanizing for Structural Steel special provision.

Structural steel and fasteners for the bridge railing shall be in accordance with material required for the AASHTO TL-3 safety rating. All steel components and fasteners for the bridge railing shall be galvanized in accordance with AASHTO M 111 and AASHTO M 232, as applicable.

1. Shear Studs. Shear connector studs shall be in accordance with subsections 505.08(m) and 1006.32 of the Standard Specifications.

2. Reinforcement Bars. Reinforcement shall be ASTM A 706 Grade 60 deformed steel reinforcement bars in accordance with Section 508 and subsection 1006.10 of the Standard Specifications. All reinforcement shall be epoxy coated.

3. Anchor Bolts. Anchor bolts shall conform to the material requirements indicated in the plans or as indicated by the Fabricator's SE and the applicable portions of Article 521.06 of the Standard Specifications. Anchor bolts and components shall be galvanized in accordance with AASHTO M 111 AND AASHTO M 132 as applicable.

4. Elastomeric Bearing Pad. Elastomeric bearing pads shall be in accordance with Section 1083 of the Standard Specifications.

Fabrication and Manufacture:

Fabrication and manufacture of the prefabricated superstructure units shall be in accordance with the Standard Specifications, plan details, and as specified herein.

1. The steel PBFTG shall be produced by a fabricator that has prior PBFTG experience and AISC Bridge Fabricator - Simple (SBR) certification. Evidence of certification and prior experience shall be provided upon request.

Fabrication shall be done in accordance with applicable portions of Section 505 of the Standard Specifications except as specified herein. Any required welding shall be done in the fabrication shop and clearly indicated in the shop drawings. No field welding will be allowed.

2. The manufacturer for the precast concrete elements shall be chosen from IDOT's Qualified Producer List of Certified Precast Concrete Producers. The precast concrete elements shall be manufactured in accordance with applicable portions of Section 503 and 504 of the Standard Specifications, the approved shop drawings, and according to IDOT's latest Policy Memorandum "Quality Control/Quality Assurance Program for Precast Products".

3. Lifting/Handling, Storing, and Transporting/Shipping. In addition to all other requirements, precast concrete components and prefabricated bridge superstructure units shall be handled/lifted as specified by the Fabricator's SE and indicated in the shop drawings. Holes required for handling/lifting shall be cast and not drilled or cored. Shop drawings shall indicate holes to be filled with non-shrink, cementitious grout specified by the Fabricator's SE once the units are set in final position.

Except as specified herein, lifting/handling, storing, and transporting requirements shall be in accordance with applicable portions of Sections 504 and 505 of the Standard Specifications.

4. Protective Coat. A protective coat shall be applied to portions of the precast concrete surfaces of the prefabricated superstructure units prior to being shipped to the jobsite.

Basis of Payment:

The completed work will be paid for at the contract unit price, SQ FT for FURNISHING SUPERSTRUCTURE, which includes all labor, equipment, materials, and testing necessary to complete the described work, including manufacturing as described herein, shipment, and unloading units at the project site in coordination with the erection contractor.

Completed work includes all labor, equipment, and material necessary to design, fabricate, galvanize, manufacture, and deliver the prefabricated bridge superstructure units, along with any required modifications to the contract plans (design, plan details, quantities, and pay items) to accommodate the selected prefabricated unit. This work also includes furnishing elastomeric pads for the bridge bearings. Payment is limited to the quantity shown on the plans, or as approved by the Engineer.

This pay item does not include installation of any kind at the project site.

The information provided in this special provision will not be paid for but is supplied to the Contractor to

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communicate the superstructure materials that will be provided by the Fabricator in coordination with Whiteside County.

HOT DIP GALVANIZING FOR STRUCTURAL STEEL:

Description. This work shall consist of surface preparation and hot dip galvanizing all structural steel specified on the plans and painting of galvanized structural steel when specified on the plans.

Materials. Fasteners shall be ASTM F 3125, Grade 325, Type 1, High Strength bolts with matching nuts and washers.

Fabrication Requirements. Hot-dip galvanizing shall be indicated on the shop drawings. The fabricator shall coordinate with the galvanizer to incorporate additional steel details required to facilitate galvanizing of the steel. These additional details shall be indicated on the shop drawings.

To insure identification after galvanizing, piece marks shall be supplemented with metal tags for all items where fit-up requires matching specific pieces.

After fabrication (cutting, welding, drilling, etc.) is complete, all holes shall be deburred and all fins, scabs or other surface/edge anomalies shall be ground or repaired per ASTM A6. The items shall then be cleaned per Steel Structures Painting Council's Surface Preparation Specification SSPC-SP1 (Solvent Cleaning) and SSPC-SP6 (Commercial Blast Cleaning). All surfaces shall be inspected to verify no fins, scabs or other similar defects are present.

The Contractor shall consult with the galvanizer to insure proper removal of grease, paint and other deleterious materials prior to galvanizing.

Surface Preparation and Hot Dip Galvanizing

General. Surfaces of the structural steel specified on the plans shall be prepared and hot dip galvanized as described herein.

Cleaning Structural Steel. If rust, mill scale, dirt, oil, grease or other foreign substances have accumulated prior to galvanizing, steel surfaces shall be cleaned by a combination of caustic cleaning and cleaning according to SSPC-SP8 (Pickling).

Special attention shall be given to the cleaning of corners and reentrant angles.

Surface Preparation. A flux shall be applied to all steel surfaces to be galvanized. Any surfaces which will receive field-installed stud shear connectors shall not be galvanized within 2 in. (50 mm) of the stud location. Either the entire area receiving studs or just individual stud locations may be left ungalvanized. The following steel surfaces of bearings shall not be galvanized: stainless steel surfaces, surfaces which will be machined (except for fixed bearing sole plates), and surfaces which will have TFE, elastomer, or stainless steel parts bonded to them.

The cleaned surfaces shall be galvanized within 24 hours after cleaning, unless otherwise authorized by the Engineer.

Application of Hot Dip Galvanized Coating.

Steel members, fabrications and assemblies shall be galvanized by the hot dip process in the shop according to AASHTO M 111.

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Bolts, nuts, and washers shall be galvanized according to ASTM F 2329.

All steel shall be safeguarded against embrittlement according to ASTM A 143. Water quenching or chromate conversion coating shall not be used on any steel work that is to be painted. All galvanized steel work shall be handled in such a manner as to avoid any mechanical damage and to minimize distortion.

Beams and girders shall be handled, stored and transported with their webs vertical and with proper cushioning to prevent damage to the member and coating. Members shall be supported and externally stiffened during galvanizing to prevent permanent distortion.

Hot Dip Galvanized Coating Requirements. Coating weight, surface finish, appearance and adhesion shall conform to requirements of ASTM A 385, ASTM F2329, AASHTO M 111 or AASHTO M 232, as appropriate.

Any high spots of zinc coating, such as metal drip lines and rough edges, left by the galvanizing operation in areas that are to be field connected or in areas that are to be painted shall be removed by cleaning per SSPC-SP2 (Hand Tool Cleaning) or SSPC-SP3 (Power Tool Cleaning). The zinc shall be removed until it is level with the surrounding area, leaving at least the minimum required zinc thickness.

Shop assemblies producing field splices shall provide 1/8 in. (3 mm) minimum gaps between ends of members to be galvanized. At field splices of beams or girders, galvanizing exceeding 0.08 in. (2 mm) on the cross-sectional (end) face shall be partially removed until it is 0.04 in. to 0.08 in. (1 to 2 mm) thick.

Testing of Hot Dip Galvanized Coating. Inspection and testing of hot dip galvanized coatings shall follow the guidelines provided in the American Galvanizers Association publication "Inspection of Products Hot Dip Galvanized After Fabrication". Sampling, inspection, rejection and retesting for conformance with requirements shall be according to AASHTO M 111 or AASHTO M 232, as applicable. Coating thickness shall be measured according to AASHTO M 111, for magnetic thickness gage measurement or AASHTO M 232, as applicable.

All steel shall be visually inspected for finish and appearance.

Bolts, nuts, washers, and steel components shall be packaged according to ASTM F 2329. Identity of bolts, nuts and washers shall be maintained for lot-testing after galvanizing according to Article 505.04(f)(2) for high strength steel bolts.

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A notarized certificate of compliance with the requirements listed herein shall be furnished. The certificate shall include a detailed description of the material processed and a statement that the processes used met or exceeded the requirements for successful galvanizing of the surface, where applicable. The certificate shall be signed by the galvanizer.

Repair of Hot Dip Galvanized Coating. Surfaces with inadequate zinc thickness shall be repaired in the shop according to ASTM A 780 and AASHTO M 111.

Surfaces of galvanized steel that are damaged after the galvanizing operation shall be repaired according to ASTM A 780 whenever damage exceeds 3/16 in. (5 mm) in width and/or 4 in. (100 mm) in length. Damage that occurs in the shop shall be repaired in the shop. Damage that occurs during transport or in the field shall be repaired in the field.

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Connection Treatment. After galvanizing and prior to shipping, contact surfaces for any bolted connections shall be roughened by hand wire brushing or according to SSPC-SP7 (Brush-Off Blast Cleaning). Power wire brushing is not allowed.

All bolt holes shall be reamed or drilled to their specified diameters after galvanizing. All bolts shall be installed after galvanizing.

Surface Preparation and Painting

Surface Preparation. When galvanized steel surfaces are specified to be painted they shall be clean and free of oil, grease, and other foreign substances. Surface preparation necessary to provide adequate adhesion of the coating shall be performed according to ASTM D6386.

Surface preparation shall include, but not be limited to the following:

- All galvanized steel surfaces that are to be painted shall be cleaned according to SSPC-SP1 (Solvent Cleaning). After cleaning, all chemicals shall be thoroughly rinsed from the surface with a suitable solvent. The steel shall be allowed to completely dry prior to coating application.
- All galvanized steel surfaces that are to be painted shall be checked for the presence of chromate conversion coating according to ASTM D 6386 Appendix X1. Surfaces where chromate conversion coating is found shall be cleaned according to the same appendix and blown down with clean, compressed air according to ASTM D 6386 Section 6.1.
- All galvanized steel surfaces that are to be painted shall be checked for the presence of wet storage stain. Surfaces where wet storage stain is found shall be cleaned, rinsed and completely dried according to ASTM D 6386 Section 6.2.
- Following galvanizing, thickness readings shall verify the acceptable thickness of the galvanizing according to AASHTO M111/ASTM A123.

Paint Requirements. The paint materials (epoxy intermediate coat and aliphatic urethane finish coat) shall meet the requirements of the Articles 1008.05(d) and (e) of the Standard Specification.

All paint materials for the shop and field shall be supplied by the same manufacturer, and samples of components submitted for approval by the Department, before use.

Paint storage, mixing, and application shall be according to Section 506 of the Standard Specifications and the paint manufacturer's written instructions and product data sheets. In the event of a conflict the Contractor shall advise the Engineer and comply with the Engineer's written resolution. Until a resolution is provided, the most restrictive conditions shall apply.

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Shop Application of the Paint System. The areas to be painted shall receive one full coat of an epoxy intermediate coat and one full coat of an aliphatic urethane finish coat. The film thickness of each coat shall be according to Article 506.09(f)(2).

Construction Requirements. The contact surfaces of splice flange connections (mating flange faces and areas under splice bolt heads and nuts) shall be free of paint prior to assembly. If white rust is visible on the mating flange surfaces, the steel shall be prepared by hand wire brushing or brush-off blasting according to SSPC-SP7. Power wire brushing is not allowed.

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After field erection, the following areas shall be prepared by cleaning according to SSPC-SP1 (Solvent Cleaning), tie- or wash-coated if applicable, and then painted or touched up with the paint specified for shop application (the intermediate coat and/or the finish coat):

- exposed unpainted areas at bolted connections
- areas where the shop paint has been damaged
- any other unpainted, exposed areas as directed by the Engineer.

Special Instructions. Painting Date/System Code. At the completion of the work, the Contractor shall stencil in contrasting color paint the date of painting the bridge and the paint type code from the Structure Information and Procedure Manual for the system used according to Article 506.10(i). The code designation for galvanizing is "V". If painting of the structural steel is not specified then the word "PAINTED" may be omitted, the month and year shall then correspond to the date the stencil is applied.

Basis of Payment:

Hot Dip Galvanizing for Structural Steel shall be included in the contract unit price, SQ FT for FURNISHING SUPERSTRUCTURE, which includes all labor, equipment, materials, and testing necessary to complete the described work, including manufacturing as described herein, shipment, and unloading units at the project site in coordination with the erection contractor.



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Check this box for lettings prior to 01/01/2022.

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

Recurring Special Provisions

Check Sheet #		Page No.
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	97
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	100
3	<input type="checkbox"/> EEO	101
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	111
5	<input type="checkbox"/> Required Provisions - State Contracts	116
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	122
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	123
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	124
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	125
10	<input type="checkbox"/> Construction Layout Stakes	128
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	131
12	<input type="checkbox"/> Subsealing of Concrete Pavements	133
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	137
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	139
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	140
16	<input type="checkbox"/> Polymer Concrete	142
17	<input type="checkbox"/> PVC Pipeliner	144
18	<input type="checkbox"/> Bicycle Racks	145
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	147
20	<input type="checkbox"/> Work Zone Public Information Signs	149
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	150
22	<input type="checkbox"/> English Substitution of Metric Bolts	151
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	152
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	153
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	161
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	177
27	Reserved	179
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment (A-1)	180
29	Reserved	186
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31	Reserved	188
32	<input type="checkbox"/> Temporary Raised Pavement Markers	189
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	190
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	193
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	197
36	<input type="checkbox"/> Longitudinal Joint and Crack Patching	200
37	<input type="checkbox"/> Concrete Mix Design - Department Provided	202

Local Public Agency

County

Section Number

Whiteside County

Whiteside

22-00228-01-BR

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

Local Roads And Streets Recurring Special Provisions

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LRS 1	Reserved	204
LRS 2	<input type="checkbox"/> Furnished Excavation	205
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	206
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	207
LRS 5	<input checked="" type="checkbox"/> Contract Claims	208
LRS 6	<input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	209
LRS 7	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	215
LRS 8	Reserved	221
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	222
LRS 10	Reserved	223
LRS 11	<input type="checkbox"/> Employment Practices	224
LRS 12	<input type="checkbox"/> Wages of Employees on Public Works	226
LRS 13	<input type="checkbox"/> Selection of Labor	228
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	229
LRS 15	<input type="checkbox"/> Partial Payments	232
LRS 16	<input type="checkbox"/> Protests on Local Lettings	233
LRS 17	<input type="checkbox"/> Substance Abuse Prevention Program	234
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	235

BDE SPECIAL PROVISIONS
For the November 18, 2022 Letting

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	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
80192	3	<input type="checkbox"/>	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
80436	6	<input type="checkbox"/>	Blended Finely Divided Minerals	April 1, 2021	
80241	7	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
50531	8	<input type="checkbox"/>	Building Removal	Sept. 1, 1990	Aug. 1, 2022
50261	9	<input type="checkbox"/>	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
80384	10	<input type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
80198	11	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
80199	12	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	13	<input type="checkbox"/>	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	14	<input type="checkbox"/>	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80261	15	<input type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80434	16	<input type="checkbox"/>	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
80029	17	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
80229	18	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80433	19	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
80422	20	<input type="checkbox"/>	High Tension Cable Median Barrier	Jan. 1, 2020	Jan. 1, 2022
80443	21	<input type="checkbox"/>	High Tension Cable Median Barrier Removal	April 1, 2022	
80442	22	<input type="checkbox"/>	Hot-Mix Asphalt	Jan. 1, 2022	Aug. 1, 2022
*	80446	<input type="checkbox"/>	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	
	80444	<input type="checkbox"/>	Hot-Mix Asphalt - Patching	April 1, 2022	
	80438	<input type="checkbox"/>	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
	80411	<input type="checkbox"/>	Luminaires, LED	April 1, 2019	Jan. 1, 2022
	80045	<input type="checkbox"/>	Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80418	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
	80430	<input type="checkbox"/>	Portland Cement Concrete – Haul Time	July 1, 2020	
	34261	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
*	80445	<input type="checkbox"/>	Seeding	Nov. 1, 2022	
	80395	<input type="checkbox"/>	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
	80340	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
*	80437	<input type="checkbox"/>	Submission of Payroll Records	April 1, 2021	Nov. 1, 2022
	80435	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2022
	80410	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
	20338	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80318	<input type="checkbox"/>	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
	80429	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
*	80439	<input type="checkbox"/>	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80440	<input type="checkbox"/>	Waterproofing Membrane System	Nov. 1, 2021	
	80302	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80427	<input type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
	80071	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

The following special provisions have been deleted from use.

<u>File Name</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
5048I	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5049I	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010

The following special provisions are in the 2022 Standard Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location(s)</u>	<u>Effective</u>	<u>Revised</u>
80425	Cape Seal	Sections 405, 1003	Jan. 1, 2020	Jan. 1, 2021
80387	Contrast Preformed Plastic Pavement Marking	Articles 780.08, 1095.03	Nov. 1, 2017	
80402	Disposal Fees	Article 109.04(b)	Nov. 1, 2018	
80378	Dowel Bar Inserter	Articles 420.03, 420.05, 1103.20	Jan. 1, 2017	Jan. 1, 2018
80421	Electric Service Installation	Articles 804.04, 804.05	Jan. 1, 2020	
80415	Emulsified Asphalts	Article 1032.06	Aug. 1, 2019	
80423	Engineer's Field Office and Laboratory	Section 670	Jan. 1, 2020	
80417	Geotechnical Fabric for Pipe Underdrains and French Drains	Articles 1080.01(a), 1080.05	Nov. 1, 2019	
80420	Geotextile Retaining Walls	Article 1080.06(d)	Nov. 1, 2019	
80304	Grooving for Recessed Pavement Markings	Articles 780.05, 780.14, 780.15	Nov. 1, 2012	Nov. 1, 2020
80416	Hot-Mix Asphalt – Binder and Surface Course	Sections 406, 1003, 1004, 1030, 1101	July 2, 2019	Nov. 1, 2019
80398	Hot-Mix Asphalt – Longitudinal Joint Sealant	Sections 406, 1032	Aug. 1, 2018	Nov. 1, 2019
80406	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Sections 406, 1030	Jan. 1, 2019	Jan. 2, 2021
80347	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Sections 406, 1030	Nov. 1, 2014	July 2, 2019
80383	Hot-Mix Asphalt – Quality Control for Performance	Sections 406, 1030	April 1, 2017	July 2, 2019
80393	Manholes, Valve Vaults, and Flat Slab Tops	Articles 602.02, 1042.10	Jan. 1, 2018	Mar. 1, 2019
80424	Micro-Surfacing and Slurry Sealing	Sections 404, 1003	Jan. 1, 2020	Jan. 1, 2021
80428	Mobilization	Article 671.02	April 1, 2020	
80412	Obstruction Warning Luminaires, LED	Sections 801, 822, 1067	Aug. 1, 2019	
80359	Portland Cement Concrete Bridge Deck Curing	Articles 1020.13, 1022.03	April 1, 2015	Nov. 1, 2019
80431	Portland Cement Concrete Pavement Patching	Articles 701.17(e)(3)b, 1001.01(d), 1020.05(b)(5)	July 1, 2020	
80432	Portland Cement Concrete Pavement Placement	Article 420.07	July 1, 2020	
80300	Preformed Plastic Pavement Marking Type D - Inlaid	Articles 780.08, 1095.03	April 1, 2012	April 1, 2016
80157	Railroad Protective Liability Insurance (5 and 10)	Article 107.11	Jan. 1, 2006	
80306	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Section 1031	Nov. 1, 2012	Jan. 2, 2021
80407	Removal and Disposal of Regulated Substances	Section 669	Jan. 1 2019	Jan. 1, 2020
80419	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Articles 280.02, 280.04, 1080.02, 1080.03, 1081.15	Nov. 1, 2019	July 1, 2021
80408	Steel Plate Beam Guardrail Manufacturing	Article 1006.25	Jan. 1, 2019	
80413	Structural Timber	Article 1007.03	Aug. 1, 2019	
80298	Temporary Pavement Marking	Section 703, Article 1095.06	April 1, 2012	April 1, 2017
80409	Traffic Control Devices – Cones	Article 701.15(a), 1106.02(b)	Jan. 1, 2019	
80288	Warm Mix Asphalt	Sections 406, 1030, 1102	Jan. 1, 2012	April 1, 2016
80414	Wood Fence Sight Screen	Article 641.02	Aug. 1, 2019	April 1, 2020

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
- Building Removal with Asbestos Abatement
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

BLENDED FINELY DIVIDED MINERALS (BDE)

Effective: April 1, 2021

Revise the second paragraph of Article 1010.01 of the Standard Specifications to read:

“Different sources or types of finely divided minerals shall not be mixed or used alternately in the same item of construction, except as a blended finely divided mineral product according to Article 1010.06.”

Add the following article to Section 1010 of the Standard Specifications:

“1010.06 Blended Finely Divided Minerals. Blended finely divided minerals shall be the product resulting from the blending or intergrinding of two or three finely divided minerals. Blended finely divided minerals shall be according to ASTM C 1697, except as follows.

- (a) Blending shall be accomplished by mechanically or pneumatically intermixing the constituent finely divided minerals into a uniform mixture that is then discharged into a silo for storage or tanker for transportation.
- (b) The blended finely divided mineral product will be classified according to its predominant constituent or the manufacturer’s designation and shall meet the chemical requirements of its classification. The other finely divided mineral constituent(s) will not be required to conform to their individual standards.”

80436