

County of Kosciusko

Engineering Roads, Bridges, & Drainage



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Date: October 1, 2025

To: All Vendors

From: Steve Moriarty
Kosciusko County Highway / Superintendent

Re: Kosciusko County Highway Department
2026 Annual Bid Specifications

The attached bid packet includes the following information and forms:

1. Copy of the Notice to Bidders.
2. Copy of Instructions to Bidders.
3. Copy of Escalation Clause.
4. Copy of the 2026 Bid specifications.
5. Appendix A - Hot Mix Asphalt Plant Certification Form
6. Appendix B - Hot Mix Asphalt Materials Certification Form
7. Appendix C – Corrugated Metal Pipe Request Form
8. Appendix D – Reinforced Concrete Culvert Bid Form
9. Appendix E – Structural Plate Pipe, Pipe-Arches, and Arches Bid Form
10. Appendix F – Road Signs and Posts Bid Form

If a vendor chooses not to bid, the vendor will be dropped from the mailing list. In order to remain on the mailing list, contact the Kosciusko County Highway Department.

Address all questions regarding the specifications to the following:

Steve Moriarty
Kosciusko County Highway / Superintendent
2936 E. Old Road 30
Warsaw, IN 46582
ph: (574) 372-2356
fax: (574) 372-2357
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**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

NOTICE TO BIDDERS

Notice is hereby given that the Board of Commissioners of Kosciusko County, Indiana will, from this date until **November 18, 2025 at 9:00 A.M.**, (Local Time), receive sealed bids for the following:

County Highway supplies for the 2026 year. Specifications are on file at the Kosciusko County Highway Garage, 2936 E. Old Road 30, Warsaw, Indiana 46582.

All bids must be submitted on Form #95 and be accompanied by an affidavit of non-collusion.

The bids should then be submitted to the Kosciusko County Auditor's Office, 100 W. Center St., Warsaw, IN 46580. The bids will be opened at 9:15 a.m. during the Commissioner's Meeting on November 18, 2025. The meeting will be located on the third floor of the Courthouse, 100 W. Center St., Warsaw, IN 46580.

In comparing bids, consideration will not be confined to price only. **The successful bid will be the one that is judged to best serve the interests of the Kosciusko County Highway Department when price, product, safety, quality and delivery are considered.** The Kosciusko County Board of Commissioners reserves the right to accept or reject any or all bids or any part thereof, and to waive any minor technicalities.

Bids will be accepted for consideration on any type or variety that is equal or superior to the one specified. **Decisions of equivalency will be at the sole interpretation of the Kosciusko County Board of Commissioners.** A blanket statement that bid will meet all requirements will not be sufficient to establish equivalence.

The Kosciusko County Highway Department reserves the right to ask for clarification for any bid submitted. The specification herein states the minimum requirements of the Kosciusko County Highway Department. It shall be the Bidder's responsibility to carefully examine each item of the specification. **Any bid not in substantial compliance with these specifications will be rejected. It will be the responsibility of the Bidder to conform to the requirements unless deviations have been specifically cited by the Bidder and acceptance made on the basis of the exception.**

When the bid deviates from the specified item, documentation shall be submitted that fully explains and justifies the deviation.

Dated this 29th day of September, 2025.

Alyssa Schmucker
Kosciusko County Auditor

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

INSTRUCTIONS TO BIDDERS

The following instructions apply to all bids:

1. All bids must be submitted on Form #95
2. All bids must be accompanied by an affidavit of non-collusion.
3. All bids must be submitted in a sealed envelope.
4. All bids must be submitted to the Kosciusko County Auditor's Office, 100 W. Center St., Warsaw, IN 46580.
5. Bid Item Name must be written on the outside of the sealed envelope for each bid item.
6. The Board of Commissioners reserves the right to accept or reject any or all bids.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

**ESCALATION CLAUSE
FOR
LIQUID BITUMINOUS, ASPHALT MIXES, DIESEL FUELS**

Bidder shall have the right to increase the contract unit price in an amount equal to the bidder's increase in costs of materials and supplies occurring subsequent to the date on which such bid is submitted (hereinafter referred to as the "base date") to the board having authority to award contracts. Any increase (or decrease) in the bidder's cost of materials and supplies after the base date shall be determined monthly, and shall be verified by proper documents furnished to the responsible awarding board which shall include proof of price to the bidder from the bidder's source of supply.

Bidder may reserve the right to allocate its products to its customers in a fair and equitable manner, if necessary, due to the reduction or the allocation from the sources of supply to the bidder in accordance with any directives for mandatory allocation issued by an appropriate agency of the Federal Government.

Bidder shall submit with the bid "Base Date Prices" for any materials and supplies subject to escalation. Escalation shall not apply to materials and supplies for which "Base Date Prices" are not stated in the bid.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

I. DUST CONTROL

- A. Bid Calcium Chloride Liquid at 38%
- B. Bid F.O.B. delivered and **applied** to various locations in Kosciusko County.
- C. State recommended application rate for each product in gallons per square yard.
- D. State estimated life expectancy for each product bid.
- E. Bid a single price per gallon. (Do not include any additional charges for spot or skip spraying.)

II. ROAD SIGNS

- A. The KCHD will request for quotes throughout the year on an “as needed” basis. (I.e. the KCHD is not soliciting an “annual” bid for Road Signs or materials)
- B. Vendors interested in receiving an RFQ for Road signs and materials may complete Appendix F and submit to the KCHD via fax or U.S. Mail.

III. SIGN POSTS

- A. The KCHD will request for quotes throughout the year on an “as needed” basis. (I.e. the KCHD is not soliciting an “annual” bid for Sign Posts)
- B. Vendors interested in receiving an RFQ for Sign Posts may complete Appendix F and submit to the KCHD via fax or U.S. Mail.

IV. AGGREGATE

- A. Bid (F.O.B. vendor’s stockpile) various sizes as per state specifications of the following:
 - 1. Pit Run Gravel (Bid per cy or per ton)
 - 2. #53 Gravel
 - 3. #73 Gravel
 - 4. #5C Gravel
 - 5. #8C Gravel
 - 6. #9C Gravel
 - 7. #9L Gravel
 - 8. Sand (Washed or Dry screened, specify which in bid)

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

9. Pea Gravel
 10. Screened Top Soil (Bid various types offered)
 11. Field Stone (as a substitute for limestone rip rap)
 12. Limestone (Include various sizes, but definitely include #73, #2, #9, #11, #12, #20, #33, and all classes of rip-rap offered.)
 13. Crushed Concrete (Include various sizes offered.)
 14. Bid to Crush 73's for Kosciusko County at Kosciusko County owned or leased gravel pits. Bidder to assume all MSHA rules and regulations. Bid to be for per cubic yard or per ton.
- B. Bid limestone delivered to Kosciusko County Highway Department yard (Include various sizes, but definitely include #73, #2, #9, #11, #12, #20, #33, and rip-rap.)
- C. Except as noted, bid price **per ton**.

V. WEED SPRAY

- A. For brush and weed control in the right-of-way, the entire width of the right-of-way shall be sprayed.
- B. For control around guardrail, a 3-ft. wide area is to be sprayed. (Control around the guardrails shall provide extended, bare ground control.)
- C. Application shall be made from May 15 through June 15.
- D. A retainage fee of 10% of the contract will be withheld through August 15 prior to final inspection.
- E. The daily logs shall be filed with the Kosciusko County Highway Department prior to any claims being paid. The logs shall be pre-approved by the Department and contain the following information:
1. Contractor Name
 2. Date of Application
 3. Specific Location - Road Number from _____ to _____
 4. Name of Spray Used
 5. Number of Gallons Used
- F. Along with the bid, the contractor shall furnish commercial pesticide business license, pesticide applicator's license, certificate of insurance and a signed indemnification agreement to the Kosciusko County Highway Department.

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2026 ANNUAL BID SPECIFICATIONS**

- G. Bid spray on a price per gallon.
- H. Provide exact mixture, application rate, and literature for treating the following:
 - 1. Right-of-way Brush Control
 - 2. Right-of-way Weed Control
 - 3. Right-of-way Brush and Weed Control
 - 4. Guardrail Weed Control (Extended, bare ground control.)

VI. Corrugated Metal Pipe (Culvert)

- A. The KCHD will request for quotes throughout the year on an individual project basis. (I.e. the KCHD is not soliciting an annual bid for CMP)
- B. Vendors interested in receiving an RFQ for CMP may complete Appendix C and submit to the KCHD via fax or U.S. Mail.

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2026 ANNUAL BID SPECIFICATIONS**

VII. CAST IN PLACE CONCRETE SIMPLE BRIDGE PACKAGE

- A. Submit bid for Simple Bridge Package per lineal foot of span based upon a 28 ft. out to out bridge deck. (State deductions for lesser deck widths)
- B. Piling shall be 14 inch steel encased concrete.
- C. Bridges shall be designed in accordance with current HS 20-44 loading.
- D. All materials and construction shall meet current AASHTO standards and the 2012 Indiana Department of Transportation Standard Specifications.
- E. Package shall include plans signed and sealed by a Registered Professional Engineer in the State of Indiana.
- F. **Performance and Maintenance Bond shall be required for each project.**

VIII. STRUCTURAL PLATE PIPE, PIPE-ARCHES, and ARCHES

- A. Submit a price per lineal foot bid for either 3-Sided or 4-Sided Structural Metal Culverts on the form documented in Appendix E.
- B. Bids submitted must be F.O.B. to various job sites within Kosciusko County.
- C. All materials shall conform to the Indiana Department of Transportation's 2012 Standard Specifications. (Sections 717, 908.09a, 908.9b)
- D. Bid shall include all necessary hardware for a complete structure.
- E. All culverts shall be properly crafted and shall not be unloaded until inspected and approved by the Kosciusko County Highway Department. (The Kosciusko County Highway Department reserves the right to return defected materials. All returns will be made at the cost of the vendor.)

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2026 ANNUAL BID SPECIFICATIONS**

- F. Headwall / Parapet and wingwall bid shall include cost of all hardware needed to affix to conduit section.
- G. The vendor must provide plans and specifications for a three-sided or a four-sided metal culvert. The plans must include a foundation design. The plans and specifications must be signed and sealed by a Registered Professional Engineer in the State of Indiana. The cost of the plans and specifications must be included in the per lineal foot cost of the culvert. No separate fee will be paid for the plans and specifications.
- H. Precast Concrete Arch Structures and Boxes
Provide unit pricing for all sizes and accessories available, including but not limited to shell, invert, headwalls, wingwalls and foundations. Price structures for HL93, HS25, and HS20 load ratings. Bidder must provide signed and sealed fabrication, layout, and design calculations by manufacturer for any structures ordered by Owner. Bidder must have an Indiana Registered Professional Engineer (PE) on staff to assist Owner in design and sizing of these type structures if required, and must be able to attend a mandatory onsite preconstruction meeting with Owner and provide an onsite inspection during construction by an employee of the culvert manufacturer if required.

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IX. LIQUID BITUMINOUS MATERIAL:

- A. Bid asphalt emulsions grades AE-90, AE-90 S, AE-150, AE-PL, and AE-T.
- B. Bid asphalt grades PG-64-22, PG-58-28, SC-250
- C. Bid per ton with additives added on the grades.
- D. Above listed asphalt must meet the current Indiana Department of Transportation Specifications. (The Kosciusko County Highway Department reserves the right to test the material against the state specifications.)
- E. Bids submitted must be F.O.B. to various locations in Kosciusko County by truck transport tankers. (Note any discounts if F.O.B at the vendor's site.)
- F. State source of supply.

**X. PLANT RENTAL FOR MIXING H.A.C. OR H.A.E.
(County provided materials)**

- A. Bidder shall furnish all necessary equipment, including, but not limited to, asphalt storage tanks and the personnel to charge, dry, mix and load hot asphaltic concrete or hot asphaltic emulsions into county trucks.
- B. The county will deliver liquid asphalt to storage tanks and aggregate to stockpiles at the plant sites.
- C. The plant shall have a rated production capacity of at least 60 tons per hour.
- D. Bids shall be on price per ton and per site location basis.
- E. It shall be the bidder's responsibility to contact site owners to make any setup arrangements necessary.
- F. It shall be the bidder's responsibility to hold the county harmless for any liability incurred by this equipment rental.

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**XI. BITUMINOUS HOT MIX H.A.C. OR H.A.E.
(Contractor provided materials in county trucks)**

- A. Bidders shall furnish all material, equipment and labor to manufacture and deposit the HMA base, intermediate, or surface mixtures into the Kosciusko County trucks at the point of manufacture in accordance with the most current version of INDOT's specification Section 402.
- B. All mixtures must be produced by an INDOT Certified HMA plant in accordance with a Quality Control Plan approved by INDOT Division of Materials and Tests.
- C. Complete Hot Mix Asphalt Plant Certification form (Appendix A) for each plant location bid. Submit completed form with bid.
- D. Bid a price on a per ton basis for all mixtures.
- E. Mixture Type:

The mixture type shall be Type A, B, or C as shown on the following table. HMA mixtures shall be produced in accordance with 402.04 (Do not bid Type D mixtures.)

Mixture Type	Type A	Type B	Type C
Design ESAL	200,000	2,000,000	9,000,000
AADT	< 4000	4000 – 15, 000	15,000 – 30,000
Surface	9.5, 12.5 mm	9.5, 12.5 mm	9.5, 12.5 mm
Surface – PG Binder	64-22	64-22	70-22
Intermediate	9.5, 12.5, 19.0 mm	9.5, 12.5, 19.0 mm	9.5, 12.5, 19.0 mm
Intermediate – PG Binder	64-22	64-22	64-22
Base	25.0 mm	25.0 mm	25.0 mm
Base – PG Binder	64-22	64-22	64-22

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F. Recycled Asphalt Pavement:

Recycled materials, up to 35%, may be used as a substitute for a portion of the new material required to produce HMA mixtures.

When using greater than 15% RAP, the PG binders listed in the above table shall be changed as follows:

From	To
PG 64-22	PG 58-28
PG 70-22	PG 64-28
PG 76-22	PG 70-28

G. Surface Aggregate Type:

For Type C mixtures, the surface aggregate shall meet the requirements for less than 3,000, 000 ESAL in 904.03(d).

H. Acceptance of Mixtures:

Acceptance shall be based on 402.09. The HMA Certification shall include the PG Binder Grade sent to the project. If requested by the Kosciusko County Engineer, the Hot Mix Materials Certification form in Appendix B shall be submitted for each day mixture is purchased.

Kosciusko County reserves the right to reject defective material and / or workmanship. Material and / or workmanship not conforming to the specifications will be considered defective.

Rejected materials and / or workmanship – at no additional cost to Kosciusko County, shall be corrected in place, replaced in conformance to the specifications, or subject to an appropriate price adjustment to the satisfaction of the Kosciusko County Engineer.

I. BITUMINOUS PATCHING MIXTURE

Provide a per ton bid for cold weather asphalt mixtures used to patch potholes.

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J. BITUMINOUS QUANTITY

Bid prices for various quantities of material based upon the total quantity of material used in the calendar year. (Manufactured, Delivered, and Placed by Contractor quantities are excluded from the usage total.) Once the usage exceeds a given quantity in the calendar year, the price for the next quantity range would apply.

1. 0 – 5,000 ton
2. 5,001 – 10,000 ton
3. 10,001 – 15,000 ton
4. 15,001 – 25,000 ton
5. over 25,000 ton

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**XII. BITUMINOUS HOT MIX ASPHALT
(Manufactured, Delivered, and Placed by Contractor)**

- A. Bidders shall furnish all material, equipment and labor to manufacture, deliver, and place the finished product at sites located in Kosciusko County.
- B. Work shall consist of one or more courses of HMA base, intermediate, or surface mixtures produced and placed in accordance with the most current version of INDOT's specification Section 402.
- C. All mixtures must be produced by an INDOT Certified HMA plant in accordance with a Quality Control Plan approved by INDOT Division of Materials and Tests.
- D. Complete Hot Mix Asphalt Plant Certification form (Appendix A) for each plant location bid. Submit completed form with bid.
- E. Bid a price on a per ton basis.
- F. Mixture Type:

The mixture type shall be Type A, B, or C as shown on the following table. HMA mixtures shall be produced in accordance with 402.04 (Do not bid Type D mixtures.)

Mixture Type	Type A	Type B	Type C
Design ESAL	200,000	2,000,000	9,000,000
AADT	< 4000	4000 – 15, 000	15,000 – 30,000
Surface	9.5, 12.5 mm	9.5, 12.5 mm	9.5, 12.5 mm
Surface – PG Binder	64-22	64-22	70-22
Intermediate	9.5, 12.5, 19.0 mm	9.5, 12.5, 19.0 mm	9.5, 12.5, 19.0 mm
Intermediate – PG Binder	64-22	64-22	64-22
Base	25.0 mm	25.0 mm	25.0 mm
Base – PG Binder	64-22	64-22	64-22

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G. Density:

Density for the mixtures will be controlled by 402.15

H. Recycled Asphalt Pavement:

Recycled materials, up to 35%, may be used as a substitute for a portion of the new material required to produce HMA mixtures.

When using greater than 15% RAP, the PG binders listed in the above table shall be changed as follows:

From	To
PG 64-22	PG 58-28
PG 70-22	PG 64-28
PG 76-22	PG 70-28

I. Surface Aggregate Type:

For Type C mixtures, the surface aggregate shall meet the requirements for less than 3,000, 000 ESAL in 904.03(d).

J. Acceptance of Mixtures:

Acceptance shall be based on 402.09. The HMA Certification shall include the PG Binder Grade sent to the project. If requested by the Kosciusko County Engineer, the Hot Mix Materials Certification form in Appendix B shall be submitted for each day mixture is delivered to the project.

Kosciusko County reserves the right to reject defective material and / or workmanship. Material and / or workmanship not conforming to the specifications will be considered defective.

Reject materials and / or workmanship – at no additional cost to Kosciusko County, shall be corrected in place, replaced in conformance to the specifications, or subject to an appropriate price adjustment to the satisfaction of the Kosciusko County Engineer.

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- K. Bid on quantities of 1000 ton or more of “Mainline Paving”. Provide price additions of these prices for the following smaller quantities:

1. 750 - 999 Ton
2. 550 - 740 Ton
3. 250 - 449 Ton

Mainline Paving is paving in areas where the overall project requires at least 250 tons of HMA and areas in which the asphalt paving machine can be set to pave for long stretches of time and distance along a road without significant starting, stopping, and / or backing delays associated with the geometry of the paving area.

Mainline Paving would include paving areas such as mailbox approaches, shoulders, passing blister, or other similar areas whereas the wings on the paving machine can be extended such that the entire paving operation does not have to stop, backup, and perform numerous “setups”.

- L. Provide price additions per ton for bituminous mixtures for “Approach Paving”.

Approach Paving is paving in areas in which a road that is not being mainline paved intersects with the road on which the mainline paving is occurring. Normally, the approach paving area extends roughly 20 feet perpendicular to the mainline paving. Generally, the approach paving areas require small tonnages within an overall project that includes larger tonnages of hot mix asphalt.

- M. Provide price additions per ton for bituminous mixtures for wedging & leveling.

- N. Provide price additions per ton for “Patch Paving”.

Patch Paving is paving in areas where no mainline paving is occurring and / or the overall project requires less than 250 tons of HMA.

The paving machine requires several “setups” within short stretches of time and distance along a road with significant starting, stopping, and / or backing delays associated with the geometry of the paving area.

Patch Paving would include paving areas such as culvert pipes, bridge decks, approaches to railroad crossings, or other similar areas that require the paving operation to stop, backup, and perform numerous “setups”.

- O. Bid price per gallon for tack coat and prime coat in place by contractor.

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**XIII. DIESEL FUEL (ULSD)
(Delivered to the Kosciusko County Highway Department)**

- A. Fuel shall be bid as “On Road, Off Road, Winterized On Road, and Winterized Off Road”.
- B. Off Road fuels shall be dyed.
- C. Each delivery shall be accompanied with a certificate of analysis.
- D. Winterized Fuel shall meet the following criteria:

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>LIMIT</u>
Ash, wt. %, max.	D-482	0.01
Cetane Index, min.	D-976	45.0
Cetane Number, min.	D-613	50.0
Cloud Point, °F, max.	D-2500	+5
Color, ASTM, max.	D-1500	1.5
Conductivity @ 20 °C, cu, min.	D-2624	50
Copper Corrosion, 3 hrs @ 122 F, max.	D-130	1
Distillation, °F	D-86	
Temp. @ 10%, recovered, max.		465
Temp. @ 50%, recovered, max.		520
Temp. @ 90%, recovered		540-630
Temp. @ Endpoint, max.		690
Flash Point, °F, min.	D-56 or D-93	130
Gravity, °API	D-287	34.0 – 39.0
Lubricity HFRR @ 60°C, micron max.	D6079	520
Pour Point, °F, max.	D-97	-30
Stability, Aged Sediment, mg/100mL, max.	ACM-15.19	1.5
Sulfur, total, ppm, max.	D-5453, D-7039	15
Viscosity, cSt @ 40 °C, min.	D-445	2.14 – 4.1
Water & Sediment, vol.%, max.	D-2709	0.02

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E. Non-Winterized Fuel shall meet the following criteria:

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>LIMIT</u>
Ash, wt. %, max.	D-482	0.01
Cetane Index, min.	D-976	45.0
Cetane Number, min.	D-613	50.0
Cloud Point, °F, max. ⁽¹⁾	D-2500	
Summer (3/1 – 9/30)		+15
Winter (10/1 - 2/29)		+5
Color, ASTM, max.	D-1500	1.5
Conductivity @ 20, °C, cu, min.	D-2624	50
Copper Corrosion, 3 hrs @ 122 °F, max.	D-130	1
Distillation, °F	D-86	
Temp. @ 10%, recovered, max.		465
Temp. @ 50%, recovered, max.		520
Temp. @ 90%, recovered		540-630
Temp. @ Endpoint, max.		690
Flash Point, °F, min.	D-56 or D-93	130
Gravity, ° API	D-287	34.0 – 39.0
Lubricity HFRR @ 60 °C, micron max.	D6079	520
Pour Point, °F, max. ⁽¹⁾	D-97	
Summer (3/1 – 9/30)		+5
Winter (10/1 – 2/29)		-20
Stability, Aged Sediment, mg/100mL, max.	ACM-15.19	1.5
Sulfur, total, ppm, max.	D-5453, D-7039	15
Viscosity, cSt @ 40 °C, min.	D-445	2.1 – 3.4
Water & Sediment, vol.%, max.	D-2709	0.02

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Item XIV. TREATED TIMBER STRUCTURES

Name of Bidder: _____

Address of Bidder: _____

“BID SHEET”

- 1) Treated Timber Bridge Planking\$ _____/MFBM
- 2) Treated Timber Box Culverts\$ _____/MFBM
- 3) Treated Timber Laminated Deck Panels.....\$ _____/MFBM
- 4) Copper Naphthenate Pressure Treated Bridge Timbers.....\$ _____/MFBM
- 5) Copper Naphthenate Pressure Treated Timber Deck Components\$ _____/MFBM
- 6) Bulk (Salt) Storage Building Package Components\$ _____/MFBM
- 7) Galvanized Attaching Hardware For Above.....\$ _____/LBS
- 8) Treated Timber Piling\$ _____/LFT
- 9) Geotextile Fabric Filter Cloth\$ _____/SYS
- 10) Local Preliminary Engineering Firm to be utilized for
Site Survey & Design Plans _____

All materials to be pressure treated to meet or exceed the specifications and standards established for the Kosciusko County Highway Department (hereinafter referred to as COUNTY), the Indiana Department of Transportation (hereinafter referred to as INDOT), and American Association of State Highway and Transportation Officials (hereinafter referred to as AASHTO).

The bid shall include all treated timber materials cut and drilled prior to treatment and pre-assembled to the extent possible for easy installation. Any of the above materials to be F.O.B. Car, Other Vehicle, or delivered and unloaded at such locations within Kosciusko County, Indiana; and, in such manner as may be specified by the COUNTY. Site surveying and design plan fees shall be in addition to the above unit prices and shall be site specific fees. Fees for such preliminary engineering shall be included in each individual purchase order upon award of the bid as determined necessary for each project site.

The Bidder’s attention is directed to the fact that all bids must be made on this bid sheet and failure to use this sheet may be cause for rejection of their bid.

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The following specifications are minimum requirements of the COUNTY for the following items:

TREATED TIMBER BRIDGE PLANKING
TREATED TIMBER BOX CULVERTS
TREATED TIMBER LAMINATED DECK PANELS
COPPER NAPHTHENATE PRESSURE TREATED BRIDGE TIMBERS
COPPER NAPHTHENATE PRESSURE TREATED TIMBER DECK COMPONENTS
SALT STORAGE BUILDING PACKAGE COMPONENTS
GALVANIZED ATTACHING HARDWARE FOR ABOVE
GEOTEXTILE FABRIC FILTER CLOTH

TREATED TIMBER BRIDGE PLANKING:

All materials shall meet the requirements as herein specified and where not herein specified shall be in accordance with INDOT's 2012 Standard Specifications, Section 712 "Timber Structures," and Section 911.02 "Treated Lumber." Wherever creosote treatment is listed in the Standard Specifications, it shall be substituted with copper naphthenate treatment for field cuts abrasions or drilled holes.

TREATED TIMBER BOX CULVERTS AND LAMINATED DECK PANELS:

DESIGN: All Vehicular Structures shall be designed for HS-20-44 Loading for Strength and L/500 for Live Load Deflection Criteria.

MATERIAL:

- a) Lumber - All lumber used in the construction of deck panels shall conform to the requirements set for the in the current INDOT/AASHTO Standard Specifications.

Treated timber shall meet the requirements specified in INDOT's 2012 Standard Specifications, Section 911.02, with the following additions and exceptions:

All timber material shall be stress grade West Coast Douglas Fir Lumber, No. 1 or Better, as required by the design, but no less than No. 1 or Better.

All surfacing shall be S4S to standard sizes. All cutting, framing, boring, and assembly, shall be done prior to treatment, and Certification of such shall be furnished by the Manufacturer prior to delivery of any material. The individual laminae shall be assemble into panel sections using 3/8" diameter steel dowel spaced not greater than three (3) foot center-to-center. Laminated deck panels shall be 4", 6", or 8" nominal size in thickness, with width and length to be determined at the time of placing order.

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All lumber shall be Pressure-Treated by the “Empty Cell Process” using copper naphthenate, and conform to the requirements of the American Wood Preservers Association “Standard Specifications for copper naphthenate, with a minimum retention of 0.076 pounds of preservative per cubic foot of wood treatment.

- b) Hardware – Bolts used for assembling sections shall be formed of rolled steel rods of structural grade and of such length as to properly grip the laminae composing the sections. Heads and nuts of bolts shall be recessed into the lumber so they do not interfere with placement of adjacent panel sections.
- c) Fasteners – Fasteners used to connect the deck panels to bridge floor beams shall be manufactured from A151 1065 steel, austempered to a minimum core hardness of 50-54rc. Typical tensile strength is to be no less than 270,000 psi; typical shear strength is to be no less than 270,000 psi. The standard finish for all fasteners is to be zinc plating to a minimum thickness of 0.0002” and passivated with a supplemental clear chromate finish which meets the requirements of federal specification QQ-Z-325B. Fasteners are to be no less than 4” in shank length, 11/64” in shank diameter, and 3/8” in head diameter.

TREATED TIMBER MATERIALS–BRIDGE &/OR SALT STORAGE BUILDING PACKAGES:

Copper Naphthenate Pressure Treated Bridge Timbers
Copper Naphthenate Pressure Treated Timber Deck Components
Salt Storage Building Package Components
Galvanized Attaching Hardware
Geotextile Fabric Filter Cloth

DESIGN SPECIFICATIONS:

The design load capacity for vehicular bridges shall be HS-20-44 truck loading for strength and L/500 for Live Load Deflection Criteria, and in accordance with all other requirements of the current INDOT/AASHTO Standard Specifications. A minimum of one set of design drawings, signed by a registered Indiana Professional Engineer, shall be provided, certified and sealed by same, and submitted within 21 days of notice to proceed and receipt of site design plans showing the bridge site details, including structure size. They shall be specific in detail and dimensions on 22” x 34” sheets. An itemized “Bill of Materials” showing in detail all materials used for the complete package (including all treated timber items, piles, nuts, bolts, cable, cable clamps, drive spikes, drift pins, etc.), as required, will also be submitted with each sealed quotation. The Bidder shall also employ a local Indiana Registered Professional Engineering Firm that is familiar with the COUNTY to provide site survey, site design, hydrology and hydraulic analysis of the existing and proposed bridge structure and bid specifications adequate for the COUNTY to publically bid the construction of the project in accordance with State Bidding Laws. The preliminary design shall be adequate to submit all environmental agency permits and the local Indiana Registered Professional Engineering Firm shall supply all permit applications and undertake all requirements of acquiring such permits on behalf of the COUNTY. The Bidder shall list the local Indiana Registered Professional Engineering

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Firm that will be utilized for this work on their Bid Sheet and shall provide additional information on this Firm with their Bid.

MATERIAL SPECIFICATIONS:

A) TIMBER:

- 1.) All Timber shall comply with the Standard Specifications for Treated Timber Bridge Materials. All timber, with the exception of piling, shall be West Coast Douglas Fir Species, and in accordance with the terms of ASTM-9; meet the Stress Grade requirements under the Rules developed from ASTM D-245 – “Methods for Establishing Structural Grade of Lumber; and the Nomenclature in ASTM D-1165. All timber materials shall comply with the Standard Grading and dressing Rules for West Coast Lumber Inspection Bureau and the Standard Grading Rules for Western Lumber in conformance with the basic provisions of ASTM D-245. The Manufacturer shall submit a certificate of Compliance to the provisions of ASTM D-245, for all Timber members incorporated into the structure, as required by the County. All Structural Timber and Lumber shall conform to the “Full Cut” dimensions as specified for either “Rough” or “Surface” Stock.
- 2.) The Bidder **shall** be regularly engaged in the business of Design, Fabrication, Preservative Treatment, and Production of these Pre-Engineered, Pre-Fabricated Pressure-Treated Timber Bridges, Culverts, and Salt-Storage Building Packages; be a qualified licensee of the American Institute of Timber Construction (AITC); and be able to furnish independent records or references of competence and satisfaction of this fact, as required by the County. The Bidder shall submit a listing of at least five similar projects in the Midwest that have utilized this type of bridge package and treated lumber completed in the last 10 years and a list of Indiana References that the COUNTY may contact to ensure the Bidder is regularly engaged in projects of this nature. Failure to submit such project listing and references shall be cause for disqualification of the bid.
- 3.) All Deck Timber shall be graded as per the West Coast Lumber Inspection Bureau 1991 Grading Rules, revised January 2004. All other Timber shall be graded as per 2004 National Design Specifications for Wood Construction by the American Forest and Paper Association (AF&PA).
 - (a) All Deck Timber shall be Dowel-Laminated, West Coast Douglas Fir-Larch, Dimension Lumber, Minimum No. #1 Grade or better, as required by the design;

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- (b) Timber Guard Rail, when ordered as AASHTO Performance Level PL-1 (TL-2), shall be Glu-Laminated Douglas Fir, Combination Symbol #24P-V8 DF/DP, and shall comply with the FHWA Crash-Test Standard PL-1 (TL-2). Timber Guard Rail Members shall be Glu-Laminated Douglas Fir, Fb=2, 400psi E = 1,800,000 psi. Railposts shall be Beams and Stringers, Dense Select Structural Grade. Curbs and Scuppers shall be Beams and Stringers No. #1 Grade. All components of the Guard Rail Packages must be certified as being in conformance with FWHA Standard Specifications for PL-1 Crash-Tested Guard Rail Systems, and a Certificate of Compliance provided by the Bridge Manufacturer, as required by COUNTY.
- (c) All Rail Post Timber shall be Douglas Fir-Larch Beams and Stringers, Dense No. #1 Structural Grade;
- (d) Curbs and Scuppers shall be Douglas Fir-Larch Beams and Stringers, No. #1 Grade;
- (e) Pile caps to be Douglas Fir-Larch, Posts and Timbers, No. #1 Grade;
- (f) Balance Timber shall be Douglas Fir Larch No. #2 Grade or better;
- (g) Shear stress shall be modified in accordance with length of split on wide face.

- 4.) FRAMING: All Timber shall be accurately cut and framed to a close fit. All cutting, framing, and boring of treated timber shall be done prior to treatment, insofar as practical. The Bidder shall supply Copper Naphthenate treatment for all field cuts and drilled holes that will be necessary for field treatment, as part of the bid package.

B) LONGITUDINAL DECK:

- 1.) All decking plans shall be smoothed one surface (S1S), to ensure that no less than 90% of assembled surfaces are in contact with each other. Planks shall be pre-drilled prior to treatment, for acceptance of 3/8 inch diameter by 15 inch long Hot-Dipped Galvanized Ring Shank Dowels used to assemble the deck panels. (Ring Shank Dowels shall conform to the specifications as outlined under "Fasteners" herein.)
- 2.) Deck panels shall be Shop-Assembled with the Hydraulic Mechanical Press Procedure, so as to ensure that all 3/8 inch by 15 inch Ring-Shank Dowels are simultaneously driven with equal force, and in order to also ensure that all heads

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finish flush with the surface of the timber plank. Design drawings shall show the doweling diagram of each deck panel, with center-to-center placement of the Ring-Shank Dowels as required by design standards. Certification of the entire pre-drilling and assembly process, as described herein shall be provided by the Bridge Manufacturer before final design is accepted, as required by County. The Bidder shall submit information with their bid on their hydraulic mechanical press facilities for proof to the COUNTY that they can meet this specification.

- 3.) The deck shall be panelized in approximately six-foot wide sections, and be pre-drilled prior to treatment, fabrication and delivery, and be fitted with lifting-lug hardware, provided by the Manufacturer, suitable for a standard mobile crane capable of lifting no less than seven tons, a distance of twenty feet from the center of each span to the most forward part of such a crane.

C) FASTENERS/HARDWARE:

- 1.) Fasteners/Hardware. All fasteners/hardware such as dowels, nails, cable clamps, nuts, bolts, washers, split-ring connectors etc, shall be Hot-Dipped Galvanized, in accordance to INDOT Standard Specifications, Section 910; and, AASHTO Specification M232.

2.) Split Ring Connectors.

- (a) Split Rings of 2-1/2 inch and 4 inch diameter shall be manufactured from Hot-Rolled Carbon Steel, conforming to SAE Grade 1010. Each Ring shall form a closed true circle, with the principal axis of the cross section of the ring metal parallel to the geometric axis of the ring. The metal section shall be beveled from the central portion toward the edge to a thickness less than mid-section. One tongue and slot cut shall be provided in the circumference.
- (b) Structural Timber and Lumber specified in the plans to receive a Split Ring Connector, shall be match grooved in each member to a minimum depth equal to one half of the depth of the split ring, with a maximum over-depth cut not exceeding 1/8 inch.

3.) Washers:

- (a) Unless a Dome Head Bolt or approved equal is used, all bolt heads or tightening nuts in contact with Structural Timber and Lumber, shall have a washer of sufficient thickness and bearing area, to ensure a minimum deformation of the contacted surface when

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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tightened, to develop not more than the maximum allowable tensile stress of that bolt.

- (b) Bolt heads or tightening nuts in contact with metal surfaces, shall have a cut washer or approved equal, placed between the bolt head or nut and the metal surface.
- (c) Unless otherwise determined by the structural purpose of any fastener needing a washer, the washer shall be made from ASTM A-36 Grade Steel.

D) PRESERVATIVE TREATMENT:

- 1.) Preservative Treatment of Structural Timber and Lumber shall be by the Empty-Cell Pressure Process, In accordance to the requirements of the Specifications for Preservatives and Pressure Treatment Process For Timber, AASHTO Designation M-133 (AWPA C14 and C2), with copper naphthenate. The minimum quantity of preservatives retained shall be as per current INDOT/AASHTO Standard Specifications.
- 2.) All Douglas Fir Material shall be incised prior to treatment.
- 3.) So far as is practical, all adazing, boring, chamfering, framing, gaining, mortising, surfacing, and general framing, etc., shall be done prior to treatment.

E) GEOTEXTILE FABRIC FILTER CLOTH:

The geotextile fabric filter cloth shall be Mirafi fabric, or approved equal, and in accordance with current INDOT/AASHTO Standard Specifications.

F) PILING:

All test piling shall be delivered with structure, with balance of piling to be furnished in appropriate lengths as per final design. All timber piles shall be creosote-pressure or copper naphthenate pressure treated and be as specified in current INDOT Standard Specifications.

G) CERTIFICATION REQUIREMENTS:

Supplier shall, as required by County, furnish three (3) copies of an affidavit in which a Professional Engineer registered in the State of Indiana has sworn before a Notary Public that they have personally inspected the materials as to species and grade, their

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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treatment, the fabrication of structural members as required, and that these materials have all been treated and fabricated in accordance with, and that all the materials in the complete package comply with these specifications and INDOT/AASHTO Standard Specifications. Delivery of the signed affidavit and acceptance of the Certified Design Drawings must precede any order to proceed from Owner. These Pre-Engineered, Pre-Fabricated, Copper Naphthenate-Pressure Treated Timber Bridge packages will be complete and must be delivered to the site by a Manufacturer who is engaged in the business of design, fabrications, treatment, and furnishing of such pressure-treated, federally approved structures. Bridge packages shall include sealed Design Drawings, certified and signed by a Professional Engineer, registered in the State of Indiana, certifying that, the design and all components, when assembled as a completed Bridge Package, shall meet current INDOT/AASHTO design Standards for HS 20-44 loading. The Bridge Manufacturer shall also provide, as necessary, a capable local technical sales engineer that is a Certified Professional Engineer in the State of Indiana who shall be present for at least two (2) consecutive days at the start of construction and at any other times when called upon, during the duration of the construction project to provide technical construction assistance as necessary on the project. All fees shall be included in the annual bid prices submitted by the Bidder.

H) HANDLING AND SHIPPING:

The entire structure including piling shall be shipped directly to the job site, or as directed by the COUNTY, for storage in such a manner as to cause no damage to the members of any of the components. The Owner shall be notified forty-eight (48) hours prior to delivery. The supplier shall furnish the necessary blocking to prevent any of the materials from being placed directly on the ground. All shipping and handling, except for unloading of the materials at the project site, shall be included in the unit price for each item.

I) GUARANTEE:

The Bidder shall guarantee that any materials or workmanship which proves defective within Twenty (20) years after date of completion and acceptance shall be replaced by them or made good without charge to the COUNTY. This guarantee shall be in addition to the Insurance provided by the Manufacturer, covering both the design and component materials provided, in the amount of not less than One Million Dollars (\$1,000,000,000) General Liability Insurance coverage. Such certificate of insurance shall be submitted with the Bid.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
A**

Hot Mix Asphalt
Plant Certification
Form

KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS

Hot Mix Asphalt
Plant Certification

Date _____

Certified HMA Producer Name _____

Certified HMA Plant Number _____ Plant Location _____

Certified HMA Plant Number _____ Plant Location _____

Certified HMA Plant Number _____ Plant Location _____

Certified HMA Plant Number _____ Plant Location _____

Name

Company

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
B**

Hot Mix Asphalt
Materials Certification
Form

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**Hot Mix Asphalt
Materials Certification**

Date _____

Project Name or Number _____

Certified HMA Producer Name _____

Certified HMA Plant Number _____

HMA Type and Designation _____

DMF / JMF Number _____ PG Binder Grade _____

Specification reference INDOT 402.09

This is to certify that the following test results for air voids and binder content represent the HMA mixture furnished for this project.

Air Voids _____ (+/- 1.5% from DMF / JMF)

Binder Content _____ (+/- 0.7% from DMF / JMF)

*** () First Test of DMF / JMF for the year. A production sample shall be taken within the first 250 Ton produced and test results submitted within 48 hours of the time the sample was taken.**

*** If applicable.**

Certified Asphalt Technician

Company

Any falsification of this document by the technician can result in loss of the technician's INDOT Certification.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
C**

Corrugate Metal Pipe
Request
Form

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

Date: _____

To: Angie Arnett
 Office Manager
 Kosciusko County Highway Department

Email: highway@kosciusko.in.gov

Fax: 574-372-2357

From: _____

Re: Corrugated Metal Culvert Quotes

We are a supplier of corrugated metal culverts and wish to be added to your quote list.

Contact Person

Company

Address

City, State, Zip

telephone number

fax number

Email

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
D**

**Reinforced Concrete Culvert
Bid Form**

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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Reinforced Concrete Culvert
Bid Form

	Price per Lineal Foot for each of the following Spans
--	---

Rise (feet)	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet	18 feet	20 feet
4 feet								
5 feet								
6 feet								
7 feet								
8 feet								
9 feet								
10 feet								

Wingwalls:

\$ _____ per square foot facia area. (Price shall be for standard 30, 45, 60, & 90 degree walls.)

Headwall / Parapets:

\$ _____ per square foot facia area. (Price shall be for the spans in the above table.)

Finished Ends:

\$ _____ additional cost per end section.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
E**

**Structural Plate Pipe Arches
Bid Form**

Structural Plate Pipe Arches

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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Bid Form

	Price per Lineal Foot for each of the following Spans
--	---

Rise (feet)	6 feet	8 feet	10 feet	12 feet	14 feet	16 feet	18 feet	20 feet
4 feet								
5 feet								
6 feet								
7 feet								
8 feet								
9 feet								
10 feet								

Wingwalls:

\$ _____ per square foot facia area. (Price shall be for standard 30, 45, 60, & 90 degree walls.)

Headwall:

\$ _____ per square foot facia area. (Price shall be for the spans in the above table.)

Finished Ends:

\$ _____ additional cost per end section.

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
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**APPENDIX
F**

Road Signs and Posts
Request
Form

**KOSCIUSKO COUNTY HIGHWAY DEPARTMENT
2026 ANNUAL BID SPECIFICATIONS**

Date: _____

To: Angie Arnett
 Office Manager
 Kosciusko County Highway Department

Email: highway@kosciusko.in.gov
Fax: 574-372-2357

From: _____

Re: Road Signs and Posts

We are a supplier of road signs and / or posts and wish to be added to your quote list.

Contact Person

Company

Address

City, State, Zip

telephone number

fax number

Email