Illinois Department of Transportation
2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 13, 2026

SUBJECT FAP Route 304 (IL 16/100)
Section 266BRR(4,5)I
Greene County
Contract No. 76T66

Item No. 054, February 27th, 2026, Letting
Addendum B

NOTICE TO PROSPECTIVE BIDDERS:

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

1. Revised page i of the Table of Contents of the Special Provisions
2. Revised pages 47-57 of the Special Provisions.

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

Very truly yours,

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

MTS

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**REMOVE FIBER OPTIC CABLE FROM CONDUIT**

Description. This work shall consist of removing existing fiber optic cable from conduit.

Construction Requirements. Fiber optic cable shall be disconnected from any splice cases, the communications end equipment, and fiber enclosures prior to removal. Fiber optic cable shall be removed from conduits, handholes, and junction boxes as directed by the Engineer. No removal work will be permitted without approval from the Engineer. All cables removed as part of this item shall become the property of the Contractor and shall be disposed according to Article 202.03 of the Standard Specifications.

Method of Measurement. This work will be measured for payment in place in feet. If two or more cables in a conduit are to be removed, each cable will be measured for payment separately.

Basis of Payment. This work will be paid for at the contract price per FOOT for REMOVE FIBER OPTIC CABLE FROM CONDUIT.

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~~**REFURBISHING OF OPERATING MACHINERY**~~

~~This section includes the rehabilitation of the high misalignment couplings, pinion and rack engagement, counterweight guides, and air buffers. Work to maintain and adjust span balance is also included.~~

~~All parts furnished by the Contractor shall be new and shall be as shown or an approved equal. In cases where a substitution is proposed, it will be the responsibility of the Contractor to prove equality of the substitution with the original contract drawings, including the submission of a sample for Engineer examination and/or a visit by the Engineer to the proposed manufacturing facility, all at the cost of the Contractor. The Contractor will also provide, at no additional cost, engineering analysis, and design modifications as may be necessitated by their proposed substitution.~~

~~Description Of Work. Provide all required materials and labor to complete the work as indicated on the contract drawings and as specified herein.~~

~~Existing machinery and associated components to be removed and/or modified are listed in the contract drawings. Upon removal, these parts shall be marked or tagged.~~

~~Tasks, machinery, equipment, parts, material and methods included in this section apply to the operating machinery of the entire bridge.~~

~~Work shall include furnishing, installing and adjusting bridge machinery, and making final adjustments to assure proper mechanical operation of the bridge, and shall include:~~

~~f. Installation of new, or modification of existing, stop discs at all high misalignment couplings.~~
~~g. Adjusting the eccentric rollers to improve rack and pinion engagement.~~
~~h. Replace counterweight guides (three locations).~~

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i. Rehabilitate air buffer piping.
j. Adjust and maintain span balance.

The Contractor shall:

c. Provide all apparatus, tools, devices, materials and labor to manufacture, paint, ship, install, erect, align, adjust, lubricate, and test the rehabilitated machinery components for the lift bridge in an approved manner as provided herein. Any apparatus, tools, devices, materials and labor, not specifically stated or included, which may be necessary for the work, shall be furnished by the Contractor.
d. Verify all dimensions. Dimensions shown in the plans are for reference and shall be verified in the field by the Contractor prior to purchase, manufacture or installation of all components and parts.

The electrical and structural aspects of this bridge rehabilitation are presented in the appropriate sections of these specifications and contract drawings.

Applicable Standards. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. The latest revisions only shall be used for all references.

Where not otherwise specified herein, workmanship, materials, fabrication and erection of the bridge components shall be in accordance with the requirements of the 2023 3rd edition of the AASHTO LRFD "Movable Highway Bridge Design Specification" and all applicable interim revisions.

Other applicable standards:

k. American Society for Testing and Materials (ASTM)
l. American National Standards Institute (ANSI)
m. American Gear Manufacturer's Association (AGMA)
n. American Society of Mechanical Engineers (ASME)
o. Society of Automotive Engineers (SAE)
p. American Welding Society (AWS), Bridge Welding Code, D1.5
q. American Iron and Steel Institute (AISI)
r. American Institute of Steel Construction (AISC)
s. Association for Materials Protection & Performance (AMPP, formerly SSPC & NACE)
t. Occupational Safety and Health Administration (OSHA)

Submittals

Standard Items. The Contractor shall submit copies of producer or manufacturer data for all purchased components. These shall include specifications, tests and installation instructions for the following items, but not excluding other items or materials not specifically mentioned:

g. Mill reports, inspection reports and physical tests of all metals.
h. Bolts, nuts, washers, and other fasteners.
i. Paint.
j. Lubricants as endorsed by machinery manufacturers for year-round exposure at this bridge site.
k. Standard stocked or custom engineered manufactured/assembled items.

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k. The Contractor shall prepare a complete list of all machinery items that require lubrication. The list shall contain the type of lubricant used and the date it was installed and lubricated by the Contractor and shall be given to the Engineer prior to start up and testing of the machinery.

Drawings

Shop Drawings. The Contractor shall submit shop drawings to the Engineer for approval. These shall include complete details, classification of materials, schedules for fabrication and shop assembly, procedures and diagrams showing sequence and details for erection and approval.

Shop drawings shall be given a suitable title to describe the parts detailed thereon, and each drawing shall be identified by the complete project name and number. Shop drawing submittals shall be complete and organized to allow the review and evaluation of logical groups of items, including the interfaces between adjacent, or connected parts, and shall include the following information:

i. Reference to the standard material specifications for each item.

j. The surface finish of machined surfaces and tolerances for each dimension for which a specific fit is required. A general tolerance block shall be used to define the tolerances of all other dimensions. Fits and finishes shall meet or exceed AASHTO or suggested manufacturer's specifications.

k. Quantity required. Note that quantities shall be for the entire bridge.

l. Heat treatment or specific hardness requirements where applicable.

m. All proprietary items shall be shown in outline on shop drawings, which shall also indicate the method and sequence, to be employed in assembly of bridge machinery. The suggested use of proprietary items does not imply a sole source intent on the part of the IDOT when other equivalent competitive products exist.

n. Shop drawings shall show all external dimensions and clearances necessary for installation, operation and inspection of each item of machinery in the bridge.

o. For all items listed or described in this section, the Contractor shall furnish complete assembly diagrams showing each part contained within the item and the manufacturer's part number assigned to each part. The diagrams shall be sufficient to enable complete disassembly and reassembly of the item covered. In the event that any part is modified in any manner from the way it is described or delivered by its original manufacturer, the Contractor shall deliver a drawing which details each modification, and the part shall be assigned a unique part number to preclude the supply of replacement parts not modified in similar fashion. The assembly drawings of each item shall, in addition to identifying and describing each internal part, contain:

8. Dimensions of all principal elements within the item.
9. Certified external dimensions affecting interfaces or installations.
10. Gross weight.
11. Capacity and normal operating ratings.

12. Method and recommended type of lubrication, including location and type of fittings and provisions for adding, draining and checking the level of each lubricant employed.
13. Inspection openings, seals, and vents, and
14. Details of all turned bolts used to mount the machinery to its supports.

p. Machinery Data. The Contractor shall furnish complete data on the design and construction of any unit furnished as part of the machinery under this Contract, including material specifications, cross-section assembly drawings, detail drawings, and dimensions of principal elements.

j. Shop Bills of Materials. Complete shop bills of materials shall be included for all machinery parts. Bills of materials should be preferably shown on the shop plans for that particular assembly, element, or detail. If the bills are not shown on the shop drawings, prints of the bills shall be furnished for approval in the same manner as specified for the drawings, and shall be directly keyed to each shop drawing it refers to. The computed weight of each piece of machinery shall be stated on the shop drawing upon which it is detailed.

Assembly and Erection Drawings. Complete assembly and erection drawings shall be furnished. These drawings shall give identifying marks and essential dimensions for locating each part or assembled unit with respect to the bridge or foundation.

Approval Process. Shop drawings, which have not been approved, or require correction, shall be resubmitted until such time as they are acceptable to the Engineer, and such procedure shall not be considered a cause for delay. The Contractor shall bear all costs or damages that may result from the ordering or fabrication of any materials prior to the acceptance of the shop drawings. As a means of expediting delivery prior to acceptance of the shop drawings, the Contractor may request in writing from the Engineer approval to order raw materials of the correct type for later fabrication from accepted shop drawings. Such approval by the Engineer shall be in writing. After acceptance of the shop drawings, the Contractor shall supply the Engineer with additional copies of the accepted drawings as may be required.

To maximize the efficiency of the approval process, shop drawing submittals shall be organized into complete logical, functional groups of parts, to allow the review and evaluation of associated components and their interfaces with mating or adjacent parts.

Field Procedures. The Contractor shall submit detailed procedures for adjustment of the eccentric roller to improve rack and pinion engagement and the field adjustment of the air buffers. These detailed procedures shall be submitted to the Engineer for approval prior to construction.

Quality Control and Assurance

Source Quality Control. Materials and fabrication procedures are subject to inspection and testing in the mill, shop and field by the Engineer. Such inspections and tests will not relieve the Contractor of responsibility for providing materials and fabrications in compliance with specified requirements.

a. Verification of Dimensions. All details shown on the contract drawings are typical and apply to all similar locations, unless otherwise indicated. All dimensions and details shall be verified at the site before proceeding with any work and to avoid causing subsequent delay in work.

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b. The Engineer shall be notified immediately for clarification whenever any portion of work is not clearly or accurately defined or dimensioned.

c. Certified Test Reports. As used herein, certified test reports refer to reports of tests conducted on previously manufactured materials or equipment intended for use on the Joe Page Bridge. Certification of truthfulness and accuracy shall be required by an authorized representative of the testing agency.

d. Factory Tests. As used herein, factory tests refer to tests required to be performed on the actual materials or equipment proposed for use. Results of the tests shall be submitted in accordance with the provisions of this contract for laboratory test results. "Factory" tests shall be performed at the manufacturer's plant or supplier's premises, or at a separate, independent accredited test laboratory, if appropriate.

e. Quality Assurance Testing. The Engineer or designated engineering inspectors may select sample materials for quality assurance testing for specification compliance. Testing may be on-site, or by departmental testing, or by an independent laboratory. Test results shall be furnished to the Engineer for reference, or for other applicable disposition if not in compliance.

f. Laboratory Tests. If the Contractor submits materials, machinery or other items for testing by an independent, accredited test laboratory, results of these tests shall be concurrently furnished to the Engineer and the Contractor for their inspection and approval. If materials or items do not meet specifications or applicable standards, two more samples shall be submitted for retest. If one retest sample fails, the lot is rejectable. In the case of machinery or instruments, the item shall be repaired or adjusted no more than twice. If the item still fails to pass, a new, replacement item shall be furnished which does pass on its first test.

g. Warranty. The Contractor shall remedy defects due to substandard quality of work, erection, materials or design for a period of one year after final tests and acceptance have been made, at his own expense. The Contractor shall furnish a satisfactory guarantee to ensure correction of defects. If necessary, such defects may be corrected by other capable contractors, as approved by the Engineer, at the expense of the Contractor.

2.1 Machinery, Equipment and Material. All materials shall be new and conform to standard ASTM and other specifications included previously and indicated on the drawings and herein, or as may be otherwise applicable.
Brinell hardness and CVN toughness tests shall be made, and included on inspection reports, for castings and forgings for which hardness or toughness values are required on the drawings, and in the materials specifications or specified herein.

Steel for weldments and miscellaneous components shall be ASTM A 709 grade 36 or A709 grade 50 unless otherwise specified. Other weldable grades with a carbon equivalent of less than 0.45 per AWS D1.5, Appendix VIII4, may be selected, subject to approval. If different grades are to be welded together by various electrodes, their toughness and strength shall be pretested using the ILDOT welded notch toughness test. In general, welding materials and procedures shall conform to AWS D1.5, Structural Welding Code for Bridges.

No item shall be fabricated, machined, welded, cast or forged without sufficient advance notification to the Engineer to permit scheduling of required inspection. The Contractor shall furnish all facilities and provide for the free access at the plant or shop for the inspection of material and quality of work.

Standard Products. Machinery, materials and equipment shall be essentially the standard cataloged products of manufacturers regularly engaged in production of such machinery,

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materials or equipment. The manufacturer's design shall comply with the contract documents. Materials and equipment shall essentially duplicate items that have been in satisfactory commercial or industrial use at least five years prior to bid opening. Where two units of the same class of machinery or equipment are required, these units shall be products of a single manufacturer; however, the component parts of the system need not be the products of the same manufacturer. Each major component of machinery or equipment shall have the manufacturer's name and address and the model and serial number on a nameplate, securely affixed in a conspicuous place. The nameplate of the distributing agent will not be acceptable.

Manufacturer's Recommendations. Where installation procedures, or any part thereof, are required to be in accordance with the recommendation of the manufacturer of the machinery, equipment or material being installed, printed copies of these recommendations shall be furnished to the Engineer prior to installation. Installation of the item will not be allowed to proceed until the recommendations are received.

Where periodic maintenance and lubrication practices are required by a component warranty of a manufacturer, printed copies of these recommendations shall be furnished to the Engineer prior to installation. Installation of the item will not be allowed to proceed until the recommendations are received.

Electrodes for Welding. Electrodes for welding shall comply with AWS D1.5 regarding storage, appropriate welding parameters, and the electrode manufacturer's recommendations. For electrodes not listed or approved, they shall be tested prior to use for weldability, strength and CVN toughness. Test procedures shall be approved by the Engineer.

High Strength and Common Bolts, Nuts and Washers. Heavy and standard hexagonal head bolts, heavy and standard hexagonal nuts, and hardened washers shall comply with ASTM F 3125 grade A325, ASTM A 563, grade DH, and ASTM F 436 respectively. ASTM A 307 bolts shall not be used for the installation of any machinery on this contract.

High Strength Turned Bolts. Turned bolts up to 1.5" diameter shall be made from material and have a strength equal to ASTM F3125, grade A325. Turned bolts larger than 1.5" diameter shall be made from material and have a strength equal to ASTM A449.

Steel Castings. Steel castings shall be ASTM A 148, grade 80-50, unless otherwise specified. Steel castings of equal or greater strength and CVN toughness and corrosion resistance can be proposed where steel weldments are specified, subject to approval, by the Engineer.

Steel Weldments. Steel weldments for miscellaneous machinery supports and components shall be ASTM A 709 grade 50, unless otherwise specified. Steel weldments of equal or greater strength and CVN toughness and corrosion resistance can be proposed where steel castings are specified, subject to approval by the Engineer.

Stainless Steel Piping and Fittings. All piping and fittings for the air buffers shall be stainless steel, type 316, rated for 1500 psi minimum.

Details and Quality of Work. In general, the machinery shall be finished, assembled, and adjusted in an approved manner and according to best machine-shop practice. The limits of dimensional accuracy, which are to be observed in machining the work, and the allowances for all metal fits, shall be placed on the Contractor's working drawings. Fits and finishes of machinery parts shall be as specified on the contract drawings or as specified in AASHTO.

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~~Where surface finishes are indicated on the drawings or specified herein, the symbols used or finishes specified are in accordance with ANSI B 46.1 "Surface Texture". Values of roughness height are specified in micro-inches as an arithmetic average deviation from the mean line. Roughness specified is the maximum value, and any smoother finish will be satisfactory. Compliance with specified surface roughness will be determined by trained sense of feel and by visual inspection of the work compared to "Standard Roughness Comparisons" in accordance with the provisions of ANSI B 46.1. Values of roughness width and waviness are not specified but shall be consistent with the general type of finish specified by the roughness height. Flaws such as scratches, ridges, holes, peaks, cracks or checks, which will make the part unsuitable, will be cause for rejection.~~

~~Where finish is not indicated or specified, the finish shall be that type which is most suitable for the application, and shall be consistent with the class of fit required. Parts of machinery in contact with other machinery parts or with supports shall be machined so as to provide even, true bearing. Surfaces in rotating or sliding contact with other surfaces shall be finished true to dimensions given and highly polished. Surfaces to be machine-finished shall be indicated on shop drawings by symbols, which conform to ANSI B 46.1.~~

~~So far as practicable, all work shall be laid out to secure proper matching of adjoining unfinished surfaces. Where there is a large discrepancy between adjoining unfinished surfaces, they shall be machined or ground to secure proper alignment. Unfinished surfaces shall be true to the lines and dimensions shown on the shop drawings and shall be ground free of all projections and rough spots. Depressions, porosity, gouges or other anomalies in castings, forgings or weldments, or blank bolt holes not affecting the strength or usefulness of the parts may be repaired or reconditioned or filled in a manner approved by the Engineer.~~

~~Turned Bolts. The body of the turned bolts shall be finished to 63 microinches or better, as defined by AASHTO. Threads for the turned bolts and nuts shall conform to the Unified Thread Standards, coarse thread series with a class 2A tolerance for bolts and class 2B tolerance for nuts, in accordance with ANSI B 1.1 unless otherwise specified. Turned bolts are designated by their nominal thread size. The turned bolt body shall be 1/16th of an inch larger in diameter than the nominal size specified and shall have an LC6 fit with reamed holes. Threads shall be machine-cut and conform to the Unified National Coarse (UNC) system of threading. The number of threads chosen shall correspond to the closest bolt diameter of the UNC system. Bolt head and nut bearing surfaces shall be flat and square with the axis of the bolt holes and shall be spot faced if necessary. Unless otherwise noted, bolt holes in machinery parts required for connecting to supporting steelwork may be sub-drilled in the shop smaller than the turned bolt diameter and shall be reamed together with supporting structural steel either during assembly or at erection, after the parts are correctly assembled and aligned. Positive type locking shall be provided. Double nuts are preferred. Where double nuts are used, heavy hex and jam nuts shall be used. Alternate locking methods shall be submitted to the Engineer for approval.~~

~~Welding. Welding required herein or called for on the contract drawings shall comply with AWS D1.5. Welded steel machinery parts shall be given a stress relief heat treatment prior to final machining. The Contractor shall submit a schedule of the proposed stress relief heat treatment to the Engineer for approval. For weldments with base metals not involving use of A709 grade 50 joined with E7018 or ER70S-3 electrodes, the schedule shall include a description of the part and an explanation of the proposed heat treatment, including the rate of heating, the soaking temperature, the time at the soaking temperature, the rate of cooling, and the temperature at which the part is to be withdrawn from the chamber. Weldments of A709 grade 50 shall be~~

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~~thermally stress-relieved by heating to 100 °F per hour to 1100 °F, holding for 1 hour per inch of maximum section thickness at 1100 °F, then cooling at 100 °F per hour to 600 °F, then cooling in still air. Welds in all sheaves, sheave trunnion bearing pedestals, span lock guides and all machinery support mounting bracket weldments shall be 100% inspected by non-destructive methods. Acceptance criteria shall be that described in AWS D1.5 for tension welds in bridges.~~

~~Inspection and Testing. Inspection at the plant or shop will not relieve the Contractor from the responsibility of furnishing satisfactory materials and quality of work. Acceptance of a material or item shall not prevent subsequent rejection if material is found defective. The Contractor shall remedy defects due to substandard quality of work, erection, or materials for a period of one year after final tests and acceptance have been made, at their own expense. All design defects noted by the Contractor shall be reported immediately to the Engineer for appropriate disposition. The Contractor shall furnish a satisfactory guarantee to ensure correction of defects. If necessary, such defects may be corrected by other capable and approved contractors at the expense of the Contractor. The Contractor is further referred to Section 106 for directions on treatment of unacceptable materials, testing and inspection.~~

~~Unless otherwise provided, the Contractor shall furnish without charge, test specimens required herein, and all labor, testing machines, tools and equipment necessary to prepare the specimens and to make the physical tests and analyses. Two copies of test reports and chemical analyses shall be furnished to the Engineer.~~

~~Delivery, Storage and Handling. All machinery items and material shall be delivered to the site in accordance with the approved schedule of work. Machinery items shall be properly protected until installation.~~

~~All machinery, materials and contingent items shall be properly protected for shipment and storage. Prior to shipment from the manufacturer's and/or fabricator's plant or plants, the Contractor shall prepare the various elements of the operating machinery for shipment. All large, bulky and/or heavy items shall be securely mounted on skids or pallets of ample size and strength to facilitate loading and unloading. All small parts shall be boxed in sturdy wood or heavy corrugated paperboard boxes. A packing list enclosed in a moisture-proof envelope and indicating the contents of each such box shall be securely attached to the outside of the container. The skid/pallet mounting and boxing shall be done in a manner that will prevent damage to the equipment during loading, shipment, unloading, storage and any associated and/or subsequent handling. Weatherproof covers shall be provided during shipment to protect any and all items shipped in open railway cars, trucks, or barges.~~

~~Material shall be stored to permit easy access for inspection and identification. Materials and items shall be protected from the ground using pallets, platforms or other means. Material shall not be stored in a manner that would cause distortion or damage.~~

~~All machinery, materials and contingent items shall be properly protected for shipment and storage.~~

~~Assembled units shall be mounted on skids or otherwise crated for protection from weather, dirt, and all other injurious conditions during shipment and storage as directed by the manufacturer. The Contractor shall submit advance information as to methods and materials that will be used for protection for approval by the Engineer.~~

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All machinery units shall have lifting eye bolts or lifting holes properly sized for safe working loads and located to provide a balanced lift. Any eyebolts, special slings, strongbacks, skidding attachments or other devices used in loading the equipment at the manufacturer's and/or fabricator's plant or plants shall be furnished for unloading and handling at the destination.

Protection of Items for Shipment. All machinery parts shall be cleaned of dirt, chips, grit, and all other injurious material prior to shipping and shall be given a coat of corrosion-inhibiting preservative.

Finished and unpainted metal surfaces that would be damaged by corrosion, shall be coated with a .030" minimum film thickness, as soon as practicable after finishing, of No-Ox-Id, A-Special, as manufactured by San-Chem Company, Chicago, Illinois, or approved equal. This coating shall be removed from all surfaces prior to installation, lubrication for operation, and from all surfaces prior to painting after erection. If the anti-rust coating on any part becomes compromised prior to part installation, the coating shall be restored immediately.

If the anti-rust coating on any machinery part shall become broken or removed accidentally, or otherwise, it shall be restored immediately.

All machinery parts shall be completely protected from weather, dirt, and all other injurious conditions during manufacture, shipment, and while awaiting erection.

Erection. All parts of machinery shall be erected in accordance with erection marks and match-marks. Before final drilling or reaming, all parts shall be adjusted to exact alignment by means of shims furnished for each part. After final alignment and bolting, all parts shall operate smoothly.

Before erection, all finished surfaces which were coated by a rust-inhibiting coating shall have the coating removed with acetone, xylol, or other approved solvent. While machinery parts are being erected, they shall be covered by a sound, unpunctured, water-resistant tarpaulin or other durable waterproof covering when work on them is interrupted.

Bolt holes in structural steel for connecting machinery with turned bolts shall, in general, be drilled from the solid after final alignment of the machinery. Sufficient erection holes, subdrilled 1/8 to 1/4 of an inch undersize for temporary bolts, may be used for erection and alignment of the machinery. When the machinery is aligned in its final position, full-size holes for the permanent turned bolts shall be subdrilled and reamed; full-size bolts installed; and the temporary bolts removed.

Torques for all grades of bolts shall be proportioned to their yield strength and shall be indicated on the erection drawings. Turned bolt torque shall be 70% of yield strength.

The machinery shall be erected and adjusted by competent mechanics and millwrights skilled in the type of work involved. They shall be provided with all necessary precision measuring and leveling instruments as may be required. The machinery shall be erected with exactness so the various parts are truly aligned in their proper positions and, when entirely assembled, will operate smoothly without binding or undue looseness of the parts.

Throughout the installation, bolts and nuts shall be adjusted or tightened only with wrenches that fit; tightening with chisels and hammers will not be permitted.

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The machinery and all machine-related elements, equipment or parts shall be assembled, erected, aligned, and adjusted at the bridge site and observed by the Engineer to whom the Contractor shall afford every opportunity and facility to satisfy himself that the work is being done in accordance with the contract drawings and specifications.

Alignment of all machinery is to be rechecked after all connections and drives have been installed and in operation for a minimum of 10 openings/closings.

The Contractor shall dispose of all removed materials pursuant to, and in accordance with, all pertinent existing legal and environmental requirements and guidelines for material disposal. IDOT or the Engineer shall identify any items to be retained. Retained items shall be delivered and stored as directed by IDOT, and all others shall be properly discarded.

Span Balancing. Span balance shall be maintained during all phases of construction and includes balance monitoring throughout construction and all required weight changes to maintain the balance requirements provided herein. The Engineer shall perform balance testing. All other activities shall be the responsibility of the Contractor.

Initial Span Balance. Prior to Construction, the Engineer shall evaluate the balance of the lift span by strain gauge balance testing. After determination of the balance condition, the Engineer will provide these results to the Contractor, along with adjustments if required to bring the lift span into acceptable balance as required below. The Engineer shall work with the Contractor in making these adjustments to achieve an acceptable balance condition as described below. This may include adding or removing weight from the counterweight or moving weight within the counterweight. The current balance condition is unknown; however, it is anticipated that weight will need to be removed from the counterweight, or temporary weight added to the lift span, to bring the balance condition within the acceptance criteria. The Engineer will re-test the lift span after adjustments have been made to obtain the initial balance condition for the start of construction.

Additional balance weights shall be furnished by the Contractor as required.

Maintaining Span Balance. Initial balancing shall establish the existing balance baseline. The Engineer shall develop and provide to the Contractor a balance spreadsheet template that will monitor the balance condition of the bascule span throughout the duration of the construction phase. The Contractor shall be responsible for maintaining this spreadsheet by tracking the weight and location of all items added to, or subtracted from, the lift span and counterweights. The Contractor shall maintain the construction balance and adjust the final balance based upon the acceptance criteria below. Where the lift span is required to be maintained operational during the contract, it shall be maintained within the acceptable balance criteria listed below. This shall be accomplished by tracking the weight, as well as the transverse and longitudinal center of gravity locations, relative to the centerline of the bridge and counterweights. The spreadsheet shall reflect the actual work plan and shall be updated daily.

Permanent or temporary adjustments shall be made to maintain an acceptable balance condition at all times. For estimating purposes, assume 3,000 lbs will be added to the lift span due to structural steel repairs.

The Contractor shall provide, install, and remove temporary balance materials as needed. Temporary equipment and tools shall be removed from the lift span prior to each bridge opening unless they are accounted for in the balance spreadsheet.

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~~Balance Requirements. The balance of the lift span shall be adjusted to meet the following requirements (all reactions listed are dead load only, no live loading):~~

~~a. During Construction, Bridge Operation Not Permitted. Bridge is in the closed position, with span locks engaged. The lift span must be span heavy, with a minimum positive reaction at each end of 1,000 lbs with the bridge in the closed position.~~
~~b. During Construction, Bridge Operation Permitted: The lift span must be span heavy in the closed position, with a positive reaction at each end between 5,000 lbs and 10,000 lbs.~~
~~c. Final Balance Condition of Bridge Following Construction: The lift span must be span heavy in the closed position, with a positive reaction at each end between 7,000 lbs and 8,000 lbs. This value may be adjusted pending the results of the strain gauge testing and performance of the lift span during final balance testing.~~

~~Refurbishing of Operating Machinery. This includes the removal of existing, and the installation and alignment of new components as indicated in these special provisions.~~

~~Basis of Payment. This work will be paid for at the contract unit bid price per LUMP SUM for REFURBISHING OF OPERATING MACHINERY. This price shall include all labor, equipment and incidentals necessary to satisfactorily complete the work in accordance with the plans and specifications.~~

**CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT**

Description. This work shall consist of removing existing closed circuit television camera equipment and furnishing, installing, and placing in satisfactory operating condition new closed circuit television camera equipment as indicated on the Plans. This work shall be according to these Special Provisions and the following:

General. Provide a closed-circuit television (CCTV) system using the most current version of system protocol and software at the time of installation. Provide compatible system components. The CCTV system shall operate over Ethernet LAN whereby the video switch (for monitors) and keyboard/mouse can communicate to the CCTV camera assemblies to receive high-quality color video and send pan/tilt/zoom control data. The furnishing, installation, and testing of all hardware, software, enclosures, and miscellaneous cabling between devices shall be included in this item.

Network Video Recorder (NVR). Provide a network video recorder (NVR) that is configurable via the use of one central GUI (Graphical User Interface). Supply a standard mouse and keyboard with the NVR for system configuration and management. Provide an NVR to comply with the following:

a) 16 or more IP video streams.
b) Redundant RAID storage system for IP video streams, playback, and export.
c) Solid state drive (SSD) for operating system storage to increase responsiveness.
d) Support recording in JPEG, MPEG-4, and H.264 IP streams.
e) Support H.264 Megapixel video streams up to 8 Megapixel resolution.
f) Automatic detection of IP cameras.
g) Operation on a 4th Generation Intel Core i5 processor or later and minimum 4 GB of RAM.

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